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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : RFP 905

WESTON SOLUTIONS, INC.

1090 King Georges Post Road

Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

ORDER ID : Q1664

ATTENTION : Smita Sumbaly

Laboratory Certification ID # 20012

Table Of Contents for Q1664

1) SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 8
5) Conformance/Non Conformance 9
6) QA Checklist 12
7) Chronicle 13
8) Hit Summary 15
9) QC Data Summary For SPLP BNA 16
- 9.1) Deuterated Monitoring Compound Summary 17
- 9.2) MS/MSD Summary 19
- 9.3) LCS/LCSD Summary 23
- 9.4) Method Blank Summary 25
- 9.5) GS/MS Tune Summary 26
- 9.6) Internal Standard Area and RT Summary 29

10) Sample Data 33
- 10.1) PB167393TB 34
- 10.2) P001-BBDGA-001-01 45
- 10.3) P001-BBDGA-001-02 56
- 10.4) P001-BBDGA-002-01 67
- 10.5) P001-BBDGA-003-01 78
- 10.6) P001-BBDGA-004-01 90
- 10.7) P001-BBDGA-005-01 102
- 10.8) P001-BBDGA-006-01 114
- 10.9) P001-BBDGA-007-01 125
- 10.10) P001-BBDGA-008-01 137

11) Calibration Data Summary 148
- 11.1) Initial Calibration Data 3
  - 11.1.1) BG030525 149
- 11.2) Continued Calibration Data 561
  - 11.2.1) BG064130.D 561
  - 11.2.2) BG064164.D 618

12) QC Sample Data 675
- 12.1) Tune Raw Data 676
- 12.2) Method Blank Data 688

12.3) LCS Data 699
12.4) MS Data 751
12.5) MSD Data 803
13) Manual Integration 855
14) Analytical Runlogs 859
15) Extraction Logs 867
15.1) PB167372.pdf 867
15.2) PB167372IC.pdf 871
15.3) PB167393.pdf 872
15.4) PB167393IC.pdf 3
16) Standard Prep Logs 874
17) Shipping Document 1062
17.1) Chain Of Custody 1063
17.2) Lab Certificate 1072
17.3) Internal COC 1073

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

Cover Page

Order ID : Q1664

Project ID : RFP 905

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q1664-01	P001-BBDGA-001-01
Q1664-02	P001-BBDGA-001-01MS
Q1664-03	P001-BBDGA-001-01MSD
Q1664-04	P001-BBDGA-001-01
Q1664-05	P001-BBDGA-001-01MS
Q1664-06	P001-BBDGA-001-01MSD
Q1664-07	P001-BBDGA-001-02
Q1664-08	P001-BBDGA-001-02
Q1664-09	P001-BBDGA-002-01
Q1664-10	P001-BBDGA-002-01
Q1664-11	P001-BBDGA-003-01
Q1664-12	P001-BBDGA-003-01
Q1664-13	P001-BBDGA-004-01
Q1664-14	P001-BBDGA-004-01
Q1664-15	P001-BBDGA-005-01
Q1664-16	P001-BBDGA-005-01
Q1664-17	P001-BBDGA-006-01
Q1664-18	P001-BBDGA-006-01
Q1664-19	P001-BBDGA-007-01
Q1664-20	P001-BBDGA-007-01
Q1664-21	P001-BBDGA-008-01
Q1664-22	P001-BBDGA-008-01

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

Signature : **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 11:19 am, Apr 08, 2025

Date: 4/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 905
Project # N/A
Chemtech Project # Q1664
Test Name: SPLP BNA

A. Number of Samples and Date of Receipt:
22 Solid samples were received on 03/27/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, EPH, Mercury, Metals ICP-TAL, METALS TAL+CN, PCB, Pesticide-TCL, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP PCB, SPLP Pesticide, SPLP VOA, SPLP ZHE Ext, SVOC-TCL BNA -20 and VOC-TCLVOA-10. This data package contains results for SPLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_G using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SPLP BNA was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for P001-BBDGA-005-01 [2,4 and6-Tribromophenol - 138%], as per method two surrogates are allowed to failed, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The MS {Q1664-05MS} with File ID: BG064135.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], 2,3,4,6-Tetrachlorophenol[122%], 2,4,5-Trichlorophenol[123%], 2,4,6-Trichlorophenol[123%] and Hexachlorocyclopentadiene [230%], due to matrix interference, no corrective action is required.

The MSD {Q1664-06MSD} with File ID: BG064136.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[103%], 1,4-Dioxane[32%], 2,3,4,6-Tetrachlorophenol[129%], 2,4,5-Trichlorophenol[125%], 2,4,6-Trichlorophenol[127%], Atrazine[164%], Hexachlorocyclopentadiene[240%] and Nitrobenzene[114%], due to matrix interference, no corrective action is required.

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

The RPD met criteria .

The Blank Spike for {PB167393BS} with File ID: BG064173.D met requirements for all samples except for 2,4,5-Trichlorophenol[107%], 2-Nitrophenol[118%], 3+4-Methylphenols[109%], 4,6-Dinitro-2-methylphenol[133%], Atrazine[135%], Butylbenzylphthalate[108%] and Hexachlorocyclopentadiene[230%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

The % RSD is greater than 20% in the Initial Calibration (8270-BG030525.M) for Benzoic acid, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Butylbenzlphthalate, these compounds are passing on Linear Regression and 2-Nitrophenol, 2-Nitroaniline, are passing on Quadratic regression.

The Continuous Calibration File ID BG064130.D met the requirements except for Hexachlorocyclopentadiene, The associate samples have no positive hit for this compound therefore no corrective action was taken. .

The Continuous Calibration File ID BG064164.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

---

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

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

Signature_____ **APPROVED**
By Nimisha Pandya, QA/QC Supervisor at 11:19 am, Apr 08, 2025

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

QA Control # A3040960

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

CHEMTECH PROJECT NUMBER: Q1664 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The % RSD is greater than 20% in the Initial Calibration (8270-BG030525.M) for Benzoic acid, 2,6-Dinitrotoluene, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4,6-Dinitro-2-methylphenol, Butylbenzlphthalate, these compounds are passing on Linear Regression and 2-Nitrophenol, 2-Nitroaniline, are passing on Quadratic regression.			
	The Continuous Calibration File ID BG064130.D met the requirements except for Hexachlorocyclopentadiene, The associate samples have no positive hit for this compound therefore no corrective action was taken. .			
	The Continuous Calibration File ID BG064164.D met the requirements except for 2,4-Dinitrophenol, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol and Hexachlorocyclopentadiene, The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for P001-BBDGA-005-01 [2,4 and6-Tribromophenol - 138%], as per method two surrogates are allowed to failed, therefore no corrective action was taken.			

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

(CONTINUED)

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria		✓	

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The MS {Q1664-05MS} with File ID: BG064135.D recoveries met the requirements for all compounds except for 1,4-Dioxane[30%], 2,3,4,6-Tetrachlorophenol[122%], 2,4,5-Trichlorophenol[123%], 2,4,6-Trichlorophenol[123%] and Hexachlorocyclopentadiene[230%], due to matrix interference, therefore no corrective action is required.

The MSD {Q1664-06MSD} with File ID: BG064136.D recoveries met the acceptable requirements except for 1,2,4,5-Tetrachlorobenzene[103%], 1,4-Dioxane[32%], 2,3,4,6-Tetrachlorophenol[129%], 2,4,5-Trichlorophenol[125%], 2,4,6-Trichlorophenol[127%], Atrazine[164%], Hexachlorocyclopentadiene[240%] and Nitrobenzene[114%], due to matrix interference, therefore no corrective action is required.

The Blank Spike for {PB167393BS} with File ID: BG064173.D met requirements for all samples except for 2,4,5-Trichlorophenol[107%], 2-Nitrophenol[118%], 3+4-Methylphenols[109%], 4,6-Dinitro-2-methylphenol[133%], Atrazine[135%], Butylbenzylphthalate[108%] and Hexachlorocyclopentadiene[230%], The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

Comments:

10.	Extraction Holding Time Met			✓

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

11.	Analysis Holding Time Met			✓

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

ADDITIONAL COMMENTS:

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

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

NA NO YES

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:55 am, Apr 08, 2025

Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1664

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

QA Review Signature: SOHIL JODHANI **Date:** 04/07/2025

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

LAB CHRONICLE

OrderID:	Q1664	**OrderDate:**	3/27/2025 10:47:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 905
Contact:	Smita Sumbaly	**Location:**	I31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1664-01	**P001-BBDGA-001-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-04	**P001-BBDGA-001-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-07	**P001-BBDGA-001-02**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-07RE	**P001-BBDGA-001-02RE**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	04/02/25	
Q1664-08	**P001-BBDGA-001-02**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-09	**P001-BBDGA-002-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-09RE	**P001-BBDGA-002-01RE**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	04/02/25	
Q1664-10	**P001-BBDGA-002-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-11	**P001-BBDGA-003-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-12	**P001-BBDGA-003-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-13	**P001-BBDGA-004-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	

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

LAB CHRONICLE

Q1664-14	**P001-BBDGA-004-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-15	**P001-BBDGA-005-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-15RE	**P001-BBDGA-005-01RE**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	04/02/25	
Q1664-16	**P001-BBDGA-005-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-17	**P001-BBDGA-006-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-17RE	**P001-BBDGA-006-01RE**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	04/02/25	
Q1664-18	**P001-BBDGA-006-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-19	**P001-BBDGA-007-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-20	**P001-BBDGA-007-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	
Q1664-21	**P001-BBDGA-008-01**	**SOIL**			**03/26/25**			**03/27/25**
			SVOC-TCL BNA -20	8270E		03/28/25	03/31/25	
Q1664-22	**P001-BBDGA-008-01**	**Water**			**03/26/25**			**03/27/25**
			SPLP BNA	8270E		03/31/25	04/01/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : P001-BBDGA-003-01								
Q1664-12	P001-BBDGA-003-01	WATER	Dimethylphthalate	10.100		0.61	5	ug/L
			Total Svoc :			**10.10**		
			Total Concentration:			**10.10**		
Client ID : P001-BBDGA-004-01								
Q1664-14	P001-BBDGA-004-01	WATER	Dimethylphthalate	8.400		0.61	5	ug/L
			Total Svoc :			**8.40**		
			Total Concentration:			**8.40**		
Client ID : P001-BBDGA-005-01								
Q1664-16	P001-BBDGA-005-01	WATER	Dimethylphthalate	11.500		0.61	5	ug/L
			Total Svoc :			**11.50**		
			Total Concentration:			**11.50**		
Client ID : P001-BBDGA-007-01								
Q1664-20	P001-BBDGA-007-01	WATER	Pentachlorophenol	3.800	J	1.6	10	ug/L
			Total Svoc :			**3.80**		
			Total Concentration:			**3.80**		

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167393BL	PB167393BL	2-Fluorophenol	150	138	92		10	139
		Phenol-d6	150	139	93		10	134
		Nitrobenzene-d5	100	98.8	99		49	133
		2-Fluorobiphenyl	100	85.7	86		52	132
		2,4,6-Tribromophenol	150	164	109		44	137
		Terphenyl-d14	100	91.8	92		48	125
PB167393BS	PB167393BS	2-Fluorophenol	150	143	96		10	139
		Phenol-d6	150	141	94		10	134
		Nitrobenzene-d5	100	97.8	98		49	133
		2-Fluorobiphenyl	100	85.6	86		52	132
		2,4,6-Tribromophenol	150	171	114		44	137
		Terphenyl-d14	100	93.3	93		48	125
PB167393TB	PB167393TB	2-Fluorophenol	150	134	89		10	139
		Phenol-d6	150	132	88		10	134
		Nitrobenzene-d5	100	97.9	98		49	133
		2-Fluorobiphenyl	100	85.4	85		52	132
		2,4,6-Tribromophenol	150	157	105		44	137
		Terphenyl-d14	100	92.1	92		48	125
Q1664-04	P001-BBDGA-001-01	2-Fluorophenol	150	55.8	37		10	139
		Phenol-d6	150	31.5	21		10	134
		Nitrobenzene-d5	100	112	112		49	133
		2-Fluorobiphenyl	100	100	100		52	132
		2,4,6-Tribromophenol	150	195	130		44	137
		Terphenyl-d14	100	102	102		48	125
Q1664-05MS	P001-BBDGA-001-01-05MS	2-Fluorophenol	150	59.4	40		10	139
		Phenol-d6	150	33.5	22		10	134
		Nitrobenzene-d5	100	114	114		49	133
		2-Fluorobiphenyl	100	105	105		52	132
		2,4,6-Tribromophenol	150	184	123		44	137
		Terphenyl-d14	100	102	102		48	125
Q1664-06MSD	P001-BBDGA-001-01-06MSD	2-Fluorophenol	150	62.2	41		10	139
		Phenol-d6	150	35.4	24		10	134
		Nitrobenzene-d5	100	117	117		49	133
		2-Fluorobiphenyl	100	105	105		52	132
		2,4,6-Tribromophenol	150	194	129		44	137
		Terphenyl-d14	100	105	105		48	125
Q1664-08	P001-BBDGA-001-02	2-Fluorophenol	150	61.8	41		10	139
		Phenol-d6	150	34.6	23		10	134
		Nitrobenzene-d5	100	117	117		49	133
		2-Fluorobiphenyl	100	104	104		52	132
		2,4,6-Tribromophenol	150	199	132		44	137
		Terphenyl-d14	100	99.2	99		48	125
Q1664-10	P001-BBDGA-002-01	2-Fluorophenol	150	61.5	41		10	139
		Phenol-d6	150	34.9	23		10	134
		Nitrobenzene-d5	100	118	118		49	133
		2-Fluorobiphenyl	100	109	109		52	132
		2,4,6-Tribromophenol	150	204	136		44	137
		Terphenyl-d14	100	107	107		48	125
Q1664-12	P001-BBDGA-003-01	2-Fluorophenol	150	61.3	41		10	139
		Phenol-d6	150	34.6	23		10	134
		Nitrobenzene-d5	100	121	121		49	133

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

Surrogate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
Q1664-12	P001-BBDGA-003-01	2-Fluorobiphenyl	100	109	109		52	132
		2,4,6-Tribromophenol	150	206	137		44	137
		Terphenyl-d14	100	110	110		48	125
Q1664-14	P001-BBDGA-004-01	2-Fluorophenol	150	37.8	25		10	139
		Phenol-d6	150	22.8	15		10	134
		Nitrobenzene-d5	100	111	111		49	133
		2-Fluorobiphenyl	100	99.5	100		52	132
		2,4,6-Tribromophenol	150	126	84		44	137
		Terphenyl-d14	100	97.4	97		48	125
Q1664-16	P001-BBDGA-005-01	2-Fluorophenol	150	64.7	43		10	139
		Phenol-d6	150	36.2	24		10	134
		Nitrobenzene-d5	100	121	121		49	133
		2-Fluorobiphenyl	100	112	112		52	132
		2,4,6-Tribromophenol	150	207	138	*	44	137
		Terphenyl-d14	100	106	106		48	125
Q1664-18	P001-BBDGA-006-01	2-Fluorophenol	150	63.7	42		10	139
		Phenol-d6	150	38.2	25		10	134
		Nitrobenzene-d5	100	119	119		49	133
		2-Fluorobiphenyl	100	109	109		52	132
		2,4,6-Tribromophenol	150	206	137		44	137
		Terphenyl-d14	100	105	105		48	125
Q1664-20	P001-BBDGA-007-01	2-Fluorophenol	150	61.6	41		10	139
		Phenol-d6	150	35.0	23		10	134
		Nitrobenzene-d5	100	117	117		49	133
		2-Fluorobiphenyl	100	104	104		52	132
		2,4,6-Tribromophenol	150	186	124		44	137
		Terphenyl-d14	100	104	104		48	125
Q1664-22	P001-BBDGA-008-01	2-Fluorophenol	150	77.3	52		10	139
		Phenol-d6	150	47.2	31		10	134
		Nitrobenzene-d5	100	119	119		49	133
		2-Fluorobiphenyl	100	106	106		52	132
		2,4,6-Tribromophenol	150	199	132		44	137
		Terphenyl-d14	100	103	103		48	125

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1664-05MS		**Client Sample ID: P001-BBDGA-001-01-05MS**						**DataFile: BG064135.D**			
Benzaldehyde	50	0	46.4	ug/L	93				10	137	
Phenol	50	0	12.9	ug/L	26				10	130	
bis(2-Chloroethyl)ether	50	0	46.5	ug/L	93				29	141	
2-Chlorophenol	50	0	38.6	ug/L	77				23	127	
2-Methylphenol	50	0	32.9	ug/L	66				60	131	
2,2-oxybis(1-Chloropropane)	50	0	44.3	ug/L	89				36	141	
Acetophenone	50	0	50.9	ug/L	102				31	164	
3+4-Methylphenols	50	0	29.0	ug/L	58				54	136	
N-Nitroso-di-n-propylamine	50	0	49.7	ug/L	99				36	147	
Hexachloroethane	50	0	38.0	ug/L	76				19	146	
Nitrobenzene	50	0	55.6	ug/L	111				62	112	
Isophorone	50	0	54.7	ug/L	109				39	146	
2-Nitrophenol	50	0	59.0	ug/L	118				30	148	
2,4-Dimethylphenol	50	0	65.4	ug/L	131				17	143	
bis(2-Chloroethoxy)methane	50	0	51.1	ug/L	102				39	143	
2,4-Dichlorophenol	50	0	52.3	ug/L	105				22	146	
Naphthalene	50	0	45.7	ug/L	91				17	157	
4-Chloroaniline	50	0	21.1	ug/L	42				10	95	
Hexachlorobutadiene	50	0	42.2	ug/L	84				52	125	
Caprolactam	50	0	9.40	ug/L	19				10	130	
4-Chloro-3-methylphenol	50	0	47.8	ug/L	96				17	148	
2-Methylnaphthalene	50	0	45.4	ug/L	91				38	146	
Hexachlorocyclopentadiene	100	0	230	ug/L	230	*			20	153	
2,4,6-Trichlorophenol	50	0	61.6	ug/L	123	*			78	112	
2,4,5-Trichlorophenol	50	0	61.5	ug/L	123	*			71	111	
1,1-Biphenyl	50	0	53.0	ug/L	106				38	154	
2-Chloronaphthalene	50	0	53.4	ug/L	107				41	145	
2-Nitroaniline	50	0	59.1	ug/L	118				39	151	
Dimethylphthalate	50	0	54.8	ug/L	110				42	147	
Acenaphthylene	50	0	56.3	ug/L	113				40	141	
2,6-Dinitrotoluene	50	0	55.4	ug/L	111				43	148	
3-Nitroaniline	50	0	27.7	ug/L	55				10	111	
Acenaphthene	50	0	53.0	ug/L	106				37	146	
2,4-Dinitrophenol	100	0	140	ug/L	140				14	167	
4-Nitrophenol	100	0	36.4	ug/L	36				10	130	
Dibenzofuran	50	0	50.6	ug/L	101				41	145	
2,4-Dinitrotoluene	50	0	59.5	ug/L	119				74	137	
Diethylphthalate	50	0	52.9	ug/L	106				41	148	
4-Chlorophenyl-phenylether	50	0	51.1	ug/L	102				38	149	
Fluorene	50	0	53.7	ug/L	107				39	144	
4-Nitroaniline	50	0	53.7	ug/L	107				27	138	
4,6-Dinitro-2-methylphenol	50	0	70.3	ug/L	141				32	175	
N-Nitrosodiphenylamine	50	0	55.9	ug/L	112				40	150	
4-Bromophenyl-phenylether	50	0	57.4	ug/L	115				42	151	
Hexachlorobenzene	50	0	55.4	ug/L	111				72	115	
Atrazine	50	0	79.3	ug/L	159				20	162	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	100	0	130	ug/L	130				52	162	
Phenanthrene	50	0	56.7	ug/L	113				40	147	
Anthracene	50	0	57.6	ug/L	115				41	146	
Carbazole	50	0	58.7	ug/L	117				37	154	
Di-n-butylphthalate	50	0	60.0	ug/L	120				40	151	
Fluoranthene	50	0	58.8	ug/L	118				42	146	
Pyrene	50	0	53.3	ug/L	107				41	149	
Butylbenzylphthalate	50	0	61.4	ug/L	123				39	155	
3,3-Dichlorobenzidine	50	0	33.0	ug/L	66				10	114	
Benzo(a)anthracene	50	0	57.2	ug/L	114				41	147	
Chrysene	50	0	54.8	ug/L	110				44	144	
bis(2-Ethylhexyl)phthalate	50	0	65.3	ug/L	131				33	160	
Di-n-octyl phthalate	50	0	64.8	ug/L	130				36	158	
Benzo(b)fluoranthene	50	0	56.0	ug/L	112				40	150	
Benzo(k)fluoranthene	50	0	55.4	ug/L	111				40	147	
Benzo(a)pyrene	50	0	60.0	ug/L	120				42	147	
Indeno(1,2,3-cd)pyrene	50	0	59.7	ug/L	119				30	166	
Dibenz(a,h)anthracene	50	0	60.0	ug/L	120				23	172	
Benzo(g,h,i)perylene	50	0	56.7	ug/L	113				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	50.9	ug/L	102				89	102	
1,4-Dioxane	50	0	15.1	ug/L	30	*			38	130	
2,3,4,6-Tetrachlorophenol	50	0	60.9	ug/L	122	*			91	111	

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1664-06MSD		**Client Sample ID: P001-BBDGA-001-01-06MSD**						**DataFile: BG064136.D**			
Benzaldehyde	50	0	51.2	ug/L	102		9		10	137	20
Phenol	50	0	13.8	ug/L	28		7		10	130	20
bis(2-Chloroethyl)ether	50	0	47.0	ug/L	94		1		29	141	20
2-Chlorophenol	50	0	42.2	ug/L	84		9		23	127	20
2-Methylphenol	50	0	35.2	ug/L	70		6		60	131	20
2,2-oxybis(1-Chloropropane)	50	0	47.3	ug/L	95		7		36	141	20
Acetophenone	50	0	51.4	ug/L	103		1		31	164	20
3+4-Methylphenols	50	0	30.6	ug/L	61		5		54	136	20
N-Nitroso-di-n-propylamine	50	0	53.0	ug/L	106		7		36	147	20
Hexachloroethane	50	0	38.4	ug/L	77		1		19	146	20
Nitrobenzene	50	0	56.9	ug/L	114	*	3		62	112	20
Isophorone	50	0	56.1	ug/L	112		3		39	146	20
2-Nitrophenol	50	0	60.6	ug/L	121		3		30	148	20
2,4-Dimethylphenol	50	0	67.8	ug/L	136		4		17	143	20
bis(2-Chloroethoxy)methane	50	0	51.4	ug/L	103		1		39	143	20
2,4-Dichlorophenol	50	0	55.7	ug/L	111		6		22	146	20
Naphthalene	50	0	46.6	ug/L	93		2		17	157	20
4-Chloroaniline	50	0	21.6	ug/L	43		2		10	95	20
Hexachlorobutadiene	50	0	42.7	ug/L	85		1		52	125	20
Caprolactam	50	0	10.2	ug/L	20		5		10	130	20
4-Chloro-3-methylphenol	50	0	49.7	ug/L	99		3		17	148	20
2-Methylnaphthalene	50	0	46.8	ug/L	94		3		38	146	20
Hexachlorocyclopentadiene	100	0	240	ug/L	240	*	4		20	153	20
2,4,6-Trichlorophenol	50	0	63.4	ug/L	127	*	3		78	112	20
2,4,5-Trichlorophenol	50	0	62.4	ug/L	125	*	2		71	111	20
1,1-Biphenyl	50	0	54.2	ug/L	108		2		38	154	20
2-Chloronaphthalene	50	0	53.6	ug/L	107		0		41	145	20
2-Nitroaniline	50	0	62.1	ug/L	124		5		39	151	20
Dimethylphthalate	50	0	57.2	ug/L	114		4		42	147	20
Acenaphthylene	50	0	59.4	ug/L	119		5		40	141	20
2,6-Dinitrotoluene	50	0	60.0	ug/L	120		8		43	148	20
3-Nitroaniline	50	0	30.5	ug/L	61		10		10	111	20
Acenaphthene	50	0	53.7	ug/L	107		1		37	146	20
2,4-Dinitrophenol	100	0	150	ug/L	150		7		14	167	20
4-Nitrophenol	100	0	40.0	ug/L	40		11		10	130	20
Dibenzofuran	50	0	52.5	ug/L	105		4		41	145	20
2,4-Dinitrotoluene	50	0	62.7	ug/L	125		5		74	137	20
Diethylphthalate	50	0	56.3	ug/L	113		6		41	148	20
4-Chlorophenyl-phenylether	50	0	54.2	ug/L	108		6		38	149	20
Fluorene	50	0	56.1	ug/L	112		5		39	144	20
4-Nitroaniline	50	0	59.3	ug/L	119		11		27	138	20
4,6-Dinitro-2-methylphenol	50	0	71.3	ug/L	143		1		32	175	20
N-Nitrosodiphenylamine	50	0	55.7	ug/L	111		1		40	150	20
4-Bromophenyl-phenylether	50	0	57.3	ug/L	115		0		42	151	20
Hexachlorobenzene	50	0	56.1	ug/L	112		1		72	115	20
Atrazine	50	0	82.2	ug/L	164	*	3		20	162	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Pentachlorophenol	100	0	130	ug/L	130		0		52	162	20
Phenanthrene	50	0	58.2	ug/L	116		3		40	147	20
Anthracene	50	0	59.1	ug/L	118		3		41	146	20
Carbazole	50	0	60.3	ug/L	121		3		37	154	20
Di-n-butylphthalate	50	0	62.3	ug/L	125		4		40	151	20
Fluoranthene	50	0	58.6	ug/L	117		1		42	146	20
Pyrene	50	0	54.7	ug/L	109		2		41	149	20
Butylbenzylphthalate	50	0	61.7	ug/L	123		0		39	155	20
3,3-Dichlorobenzidine	50	0	33.8	ug/L	68		3		10	114	20
Benzo(a)anthracene	50	0	57.9	ug/L	116		2		41	147	20
Chrysene	50	0	54.8	ug/L	110		0		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	65.1	ug/L	130		1		33	160	20
Di-n-octyl phthalate	50	0	65.5	ug/L	131		1		36	158	20
Benzo(b)fluoranthene	50	0	54.7	ug/L	109		3		40	150	20
Benzo(k)fluoranthene	50	0	55.7	ug/L	111		0		40	147	20
Benzo(a)pyrene	50	0	59.9	ug/L	120		0		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	59.3	ug/L	119		0		30	166	20
Dibenz(a,h)anthracene	50	0	59.0	ug/L	118		2		23	172	20
Benzo(g,h,i)perylene	50	0	56.3	ug/L	113		0		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	51.7	ug/L	103	*	1		89	102	20
1,4-Dioxane	50	0	16.0	ug/L	32	*	6		38	130	20
2,3,4,6-Tetrachlorophenol	50	0	64.5	ug/L	129	*	6		91	111	20

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BG064173.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167393BS	Benzaldehyde	50	44.2	ug/L	88				10	162	
	Phenol	50	51.7	ug/L	103				66	118	
	bis(2-Chloroethyl)ether	50	43.9	ug/L	88				62	103	
	2-Chlorophenol	50	51.6	ug/L	103				70	117	
	2-Methylphenol	50	53.6	ug/L	107				69	109	
	2,2-oxybis(1-Chloropropane)	50	46.6	ug/L	93				65	100	
	Acetophenone	50	42.2	ug/L	84				60	104	
	3+4-Methylphenols	50	54.3	ug/L	109		*		67	106	
	N-Nitroso-di-n-propylamine	50	47.6	ug/L	95				57	107	
	Hexachloroethane	50	52.8	ug/L	106				76	118	
	Nitrobenzene	50	48.0	ug/L	96				58	106	
	Isophorone	50	46.4	ug/L	93				61	102	
	2-Nitrophenol	50	58.8	ug/L	118		*		70	115	
	2,4-Dimethylphenol	50	71.2	ug/L	142				42	142	
	bis(2-Chloroethoxy)methane	50	44.9	ug/L	90				58	109	
	2,4-Dichlorophenol	50	53.9	ug/L	108				66	115	
	Naphthalene	50	44.0	ug/L	88				64	107	
	4-Chloroaniline	50	11.0	ug/L	22				10	85	
	Hexachlorobutadiene	50	47.2	ug/L	94				69	101	
	Caprolactam	50	54.6	ug/L	109				58	128	
	4-Chloro-3-methylphenol	50	55.4	ug/L	111				65	114	
	2-Methylnaphthalene	50	43.1	ug/L	86				64	107	
	Hexachlorocyclopentadiene	100	230	ug/L	230		*		36	160	
	2,4,6-Trichlorophenol	50	51.7	ug/L	103				61	110	
	2,4,5-Trichlorophenol	50	53.5	ug/L	107		*		70	106	
	1,1-Biphenyl	50	44.4	ug/L	89				72	98	
	2-Chloronaphthalene	50	44.9	ug/L	90				59	106	
	2-Nitroaniline	50	52.9	ug/L	106				73	114	
	Dimethylphthalate	50	47.5	ug/L	95				64	103	
	Acenaphthylene	50	49.4	ug/L	99				79	103	
	2,6-Dinitrotoluene	50	49.7	ug/L	99				64	110	
	3-Nitroaniline	50	20.6	ug/L	41				28	100	
	Acenaphthene	50	45.0	ug/L	90				59	113	
	2,4-Dinitrophenol	100	140	ug/L	140				36	166	
	4-Nitrophenol	100	110	ug/L	110				45	147	
	Dibenzofuran	50	44.1	ug/L	88				65	106	
	2,4-Dinitrotoluene	50	54.2	ug/L	108				60	115	
	Diethylphthalate	50	48.4	ug/L	97				63	105	
	4-Chlorophenyl-phenylether	50	46.3	ug/L	93				61	104	
	Fluorene	50	47.0	ug/L	94				64	107	
	4-Nitroaniline	50	50.5	ug/L	101				55	125	
	4,6-Dinitro-2-methylphenol	50	66.5	ug/L	133		*		62	132	
	N-Nitrosodiphenylamine	50	48.6	ug/L	97				61	109	
	4-Bromophenyl-phenylether	50	50.8	ug/L	102				73	103	

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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1664

Client: Weston Solutions, Inc.

Analytical Method: 8270E **DataFile:** BG064173.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167393BS	Hexachlorobenzene	50	48.8	ug/L	98				73	106	
	Atrazine	50	67.3	ug/L	135		*		76	120	
	Pentachlorophenol	100	100	ug/L	100				47	114	
	Phenanthrene	50	47.4	ug/L	95				62	109	
	Anthracene	50	49.3	ug/L	99				65	110	
	Carbazole	50	46.7	ug/L	93				62	106	
	Di-n-butylphthalate	50	49.4	ug/L	99				64	106	
	Fluoranthene	50	45.8	ug/L	92				64	110	
	Pyrene	50	47.4	ug/L	95				71	103	
	Butylbenzylphthalate	50	53.8	ug/L	108		*		61	105	
	3,3-Dichlorobenzidine	50	23.4	ug/L	47				43	108	
	Benzo(a)anthracene	50	48.1	ug/L	96				62	107	
	Chrysene	50	45.7	ug/L	91				61	108	
	bis(2-Ethylhexyl)phthalate	50	54.5	ug/L	109				59	110	
	Di-n-octyl phthalate	50	54.4	ug/L	109				52	139	
	Benzo(b)fluoranthene	50	47.7	ug/L	95				77	113	
	Benzo(k)fluoranthene	50	45.3	ug/L	91				77	105	
	Benzo(a)pyrene	50	51.0	ug/L	102				72	131	
	Indeno(1,2,3-cd)pyrene	50	50.8	ug/L	102				72	105	
	Dibenz(a,h)anthracene	50	51.0	ug/L	102				78	115	
	Benzo(g,h,i)perylene	50	47.1	ug/L	94				75	118	
	1,2,4,5-Tetrachlorobenzene	50	43.3	ug/L	87				72	101	
	1,4-Dioxane	50	28.2	ug/L	56				38	125	
	2,3,4,6-Tetrachlorophenol	50	55.5	ug/L	111				63	116	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167393BL

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: BG064171.D Lab Sample ID: PB167393BL

Instrument ID: BNA_G Date Extracted: 03/31/2025

Matrix: (soil/water) Water Date Analyzed: 04/03/2025

Level: (low/med) LOW Time Analyzed: 17:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167393BS	PB167393BS	BG064173.D	04/03/2025
P001-BBDGA-001-01	Q1664-04	BG064134.D	04/01/2025
P001-BBDGA-001-01-05MS	Q1664-05MS	BG064135.D	04/01/2025
P001-BBDGA-001-01-06MSD	Q1664-06MSD	BG064136.D	04/01/2025
P001-BBDGA-001-02	Q1664-08	BG064137.D	04/01/2025
P001-BBDGA-002-01	Q1664-10	BG064138.D	04/01/2025
P001-BBDGA-003-01	Q1664-12	BG064139.D	04/01/2025
P001-BBDGA-004-01	Q1664-14	BG064140.D	04/01/2025
P001-BBDGA-005-01	Q1664-16	BG064141.D	04/01/2025
P001-BBDGA-006-01	Q1664-18	BG064142.D	04/01/2025
P001-BBDGA-007-01	Q1664-20	BG064143.D	04/01/2025
P001-BBDGA-008-01	Q1664-22	BG064144.D	04/01/2025
PB167393TB	PB167393TB	BG064169.D	04/03/2025

COMMENTS:

Form IV SV

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: BG064044.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_G DFTPP Injection Time: 08:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.3
68	Less than 2.0% of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	17.2 (20.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG064045.D	03/05/2025	09:02
SSTDICC005	SSTDICC005	BG064046.D	03/05/2025	09:42
SSTDICC010	SSTDICC010	BG064047.D	03/05/2025	10:22
SSTDICC020	SSTDICC020	BG064048.D	03/05/2025	11:03
SSTDICCC040	SSTDICCC040	BG064049.D	03/05/2025	11:43
SSTDICC050	SSTDICC050	BG064050.D	03/05/2025	12:23
SSTDICC060	SSTDICC060	BG064051.D	03/05/2025	13:04
SSTDICC080	SSTDICC080	BG064052.D	03/05/2025	13:44

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: BG064129.D DFTPP Injection Date: 04/01/2025

Instrument ID: BNA_G DFTPP Injection Time: 10:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	38.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	29.4
365	Greater than 1% of mass 198	5.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064130.D	04/01/2025	11:38
P001-BBDGA-001-01	Q1664-04	BG064134.D	04/01/2025	14:23
P001-BBDGA-001-01-05MS	Q1664-05MS	BG064135.D	04/01/2025	15:03
P001-BBDGA-001-01-06MSD	Q1664-06MSD	BG064136.D	04/01/2025	15:44
P001-BBDGA-001-02	Q1664-08	BG064137.D	04/01/2025	16:24
P001-BBDGA-002-01	Q1664-10	BG064138.D	04/01/2025	17:04
P001-BBDGA-003-01	Q1664-12	BG064139.D	04/01/2025	17:45
P001-BBDGA-004-01	Q1664-14	BG064140.D	04/01/2025	18:25
P001-BBDGA-005-01	Q1664-16	BG064141.D	04/01/2025	19:05
P001-BBDGA-006-01	Q1664-18	BG064142.D	04/01/2025	19:45
P001-BBDGA-007-01	Q1664-20	BG064143.D	04/01/2025	20:26
P001-BBDGA-008-01	Q1664-22	BG064144.D	04/01/2025	21:06

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM SAS No.: Q1664 SDG NO.: Q1664

Lab File ID: BG064163.D DFTPP Injection Date: 04/03/2025

Instrument ID: BNA_G DFTPP Injection Time: 12:24

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	56
68	Less than 2.0% of mass 69	0.3 (0.8) 1
69	Mass 69 relative abundance	40.6
70	Less than 2.0% of mass 69	0.3 (0.8) 1
127	10.0 - 80.0% of mass 198	48.4
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.7
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	14.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (20.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BG064164.D	04/03/2025	13:04
PB167393TB	PB167393TB	BG064169.D	04/03/2025	16:34
PB167393BL	PB167393BL	BG064171.D	04/03/2025	17:56
PB167393BS	PB167393BS	BG064173.D	04/03/2025	19:17

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2025

Lab File ID: BG064130.D Time Analyzed: 11:38

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	35250	7.864	155899	10.65	116262	14.49
	UPPER LIMIT	70500	8.364	311798	11.149	232524	14.985
	LOWER LIMIT	17625	7.364	77949.5	10.149	58131	13.985
	EPA SAMPLE NO.						
01	P001-BBDGA-001-01	36149	7.86	145902	10.65	100632	14.48
02	P001-BBDGA-001-01-05MS	35803	7.86	150441	10.65	102278	14.48
03	P001-BBDGA-001-01-06MSD	32445	7.86	141900	10.65	97582	14.49
04	P001-BBDGA-001-02	33101	7.86	138071	10.65	94366	14.48
05	P001-BBDGA-002-01	32858	7.86	138416	10.64	91944	14.48
06	P001-BBDGA-003-01	34101	7.86	141057	10.65	95411	14.48
07	P001-BBDGA-004-01	35625	7.86	147982	10.65	101170	14.48
08	P001-BBDGA-005-01	32945	7.86	139968	10.65	95119	14.48
09	P001-BBDGA-006-01	34864	7.86	141203	10.64	96364	14.48
10	P001-BBDGA-007-01	34800	7.86	145195	10.65	100676	14.48
11	P001-BBDGA-008-01	34102	7.86	146359	10.64	99405	14.48

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/01/2025

Lab File ID: BG064130.D Time Analyzed: 11:38

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	250435	17.223	243510	21.459	261203	24.468
	UPPER LIMIT	500870	17.723	487020	21.959	522406	24.968
	LOWER LIMIT	125218	16.723	121755	20.959	130602	23.968
	EPA SAMPLE NO.						
01	P001-BBDGA-001-01	238066	17.22	264272	21.45	280516	24.47
02	P001-BBDGA-001-01-05MS	228948	17.23	259874	21.46	281028	24.47
03	P001-BBDGA-001-01-06MSD	230185	17.22	254217	21.45	279147	24.46
04	P001-BBDGA-001-02	226571	17.22	263789	21.45	282032	24.46
05	P001-BBDGA-002-01	218786	17.22	249872	21.45	272575	24.46
06	P001-BBDGA-003-01	229133	17.22	251581	21.45	271745	24.46
07	P001-BBDGA-004-01	235772	17.22	265131	21.45	282446	24.46
08	P001-BBDGA-005-01	227404	17.22	259176	21.45	276065	24.47
09	P001-BBDGA-006-01	230878	17.22	262499	21.45	281469	24.46
10	P001-BBDGA-007-01	224548	17.22	255840	21.45	278315	24.46
11	P001-BBDGA-008-01	239679	17.22	275927	21.45	287353	24.46

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/03/2025

Lab File ID: BG064164.D Time Analyzed: 13:04

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	32960	7.856	151982	10.65	113011	14.48
	UPPER LIMIT	65920	8.356	303964	11.152	226022	14.983
	LOWER LIMIT	16480	7.356	75991	10.152	56505.5	13.983
	EPA SAMPLE NO.						
01	PB167393BL	25692	7.86	118561	10.65	97336	14.48
02	PB167393BS	28326	7.86	137392	10.65	107393	14.48
03	PB167393TB	29004	7.86	129149	10.65	102109	14.49

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG NO.: Q1664

EPA Sample No.: SSTDCCC040 Date Analyzed: 04/03/2025

Lab File ID: BG064164.D Time Analyzed: 13:04

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	257861	17.227	259274	21.457	274699	24.471
	UPPER LIMIT	515722	17.727	518548	21.957	549398	24.971
	LOWER LIMIT	128931	16.727	129637	20.957	137350	23.971
	EPA SAMPLE NO.						
01	PB167393BL	234504	17.22	246421	21.45	258720	24.47
02	PB167393BS	248813	17.22	248832	21.45	264036	24.47
03	PB167393TB	242395	17.22	251465	21.45	271920	24.47

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

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

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

SAMPLE DATA

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/31/25
Project:	RFP 905	Date Received:	03/31/25
Client Sample ID:	PB167393TB	SDG No.:	Q1664
Lab Sample ID:	PB167393TB	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064169.D	1	03/31/25 11:00	04/03/25 16:34	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/31/25
Project:	RFP 905	Date Received:	03/31/25
Client Sample ID:	PB167393TB	SDG No.:	Q1664
Lab Sample ID:	PB167393TB	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064169.D	1	03/31/25 11:00	04/03/25 16:34	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/31/25
Project:	RFP 905	Date Received:	03/31/25
Client Sample ID:	PB167393TB	SDG No.:	Q1664
Lab Sample ID:	PB167393TB	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064169.D	1	03/31/25 11:00	04/03/25 16:34	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	134		10 - 139	89%	SPK: 150
13127-88-3	Phenol-d6	132		10 - 134	88%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.9		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		44 - 137	105%	SPK: 150
1718-51-0	Terphenyl-d14	92.1		48 - 125	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29000	7.858			
1146-65-2	Naphthalene-d8	129000	10.649			
15067-26-2	Acenaphthene-d10	102000	14.486			
1517-22-2	Phenanthrene-d10	242000	17.224			
1719-03-5	Chrysene-d12	251000	21.454			
1520-96-3	Perylene-d12	272000	24.468			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064169.D
Acq On : 3 Apr 2025 16:34
Operator : RC/JU
Sample : PB167393TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Quant Time: Apr 03 17:13:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

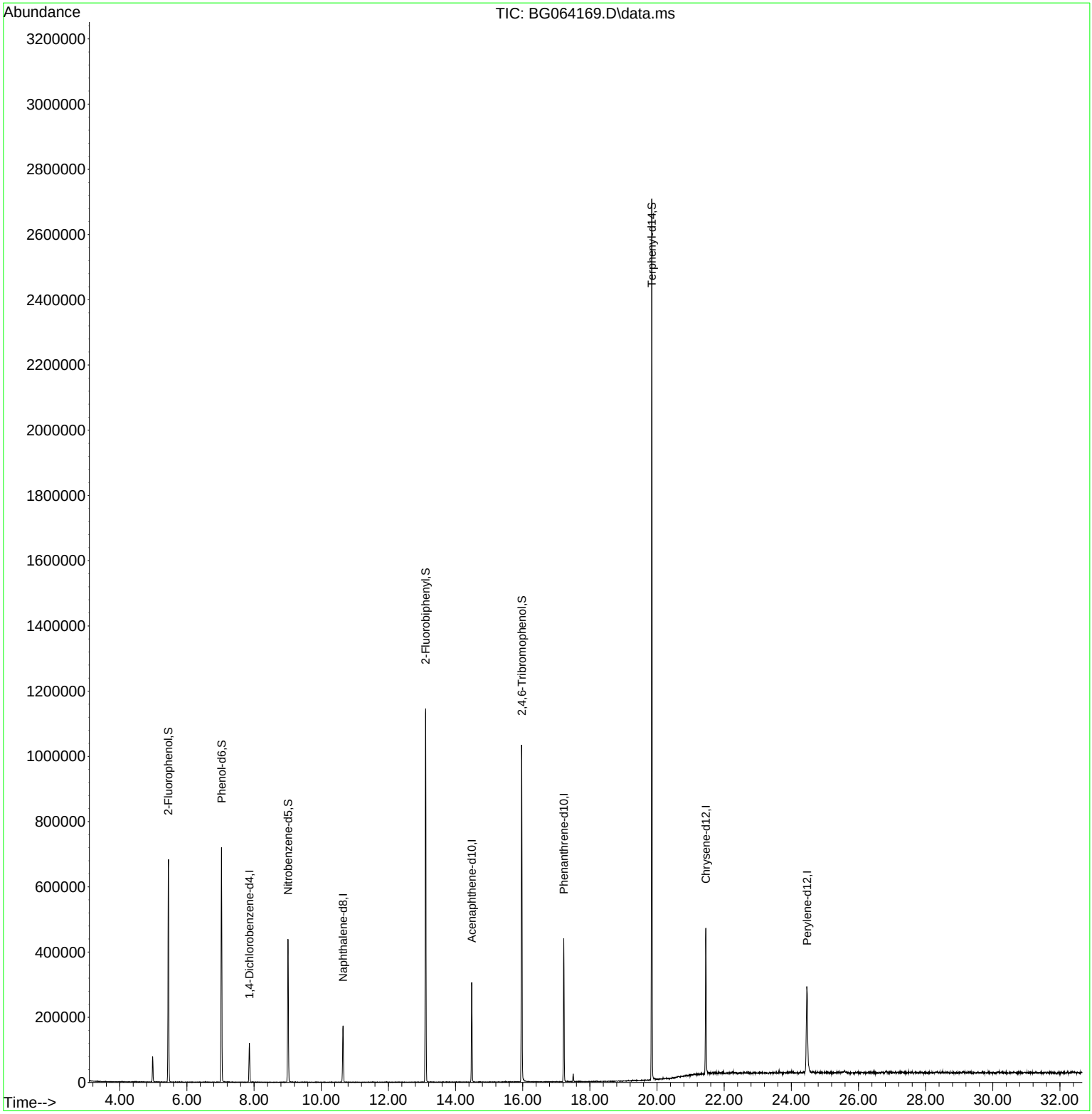
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.858	152	29004	20.000	ng	# 0.00
21) Naphthalene-d8	10.649	136	129149	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	102109	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	242395	20.000	ng	0.00
76) Chrysene-d12	21.454	240	251465	20.000	ng	0.00
86) Perylene-d12	24.468	264	271920	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.449	112	248305	133.676	ng	0.00
7) Phenol-d6	7.030	99	333662	132.042	ng	0.00
23) Nitrobenzene-d5	9.010	82	228692	97.856	ng	0.00
42) 2,4,6-Tribromophenol	15.972	330	178343	157.129	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	574550	85.409	ng	0.00
79) Terphenyl-d14	19.844	244	1145386	92.099	ng	0.00
Target Compounds						Qvalue

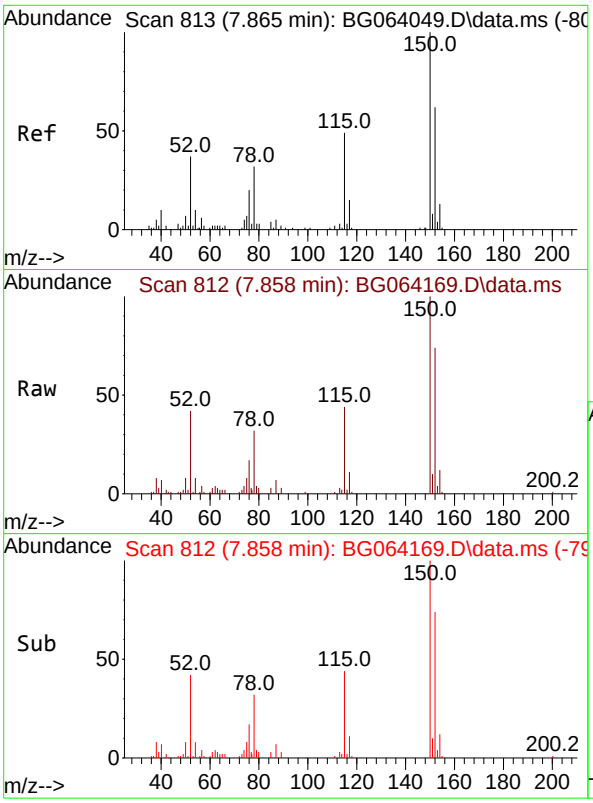
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064169.D
Acq On : 3 Apr 2025 16:34
Operator : RC/JU
Sample : PB167393TB
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Quant Time: Apr 03 17:13:10 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



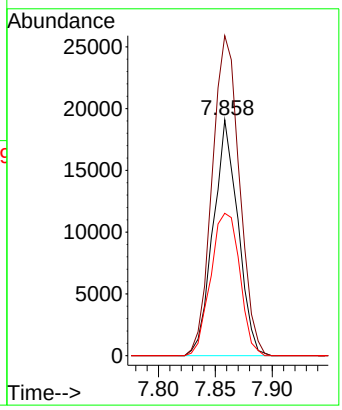


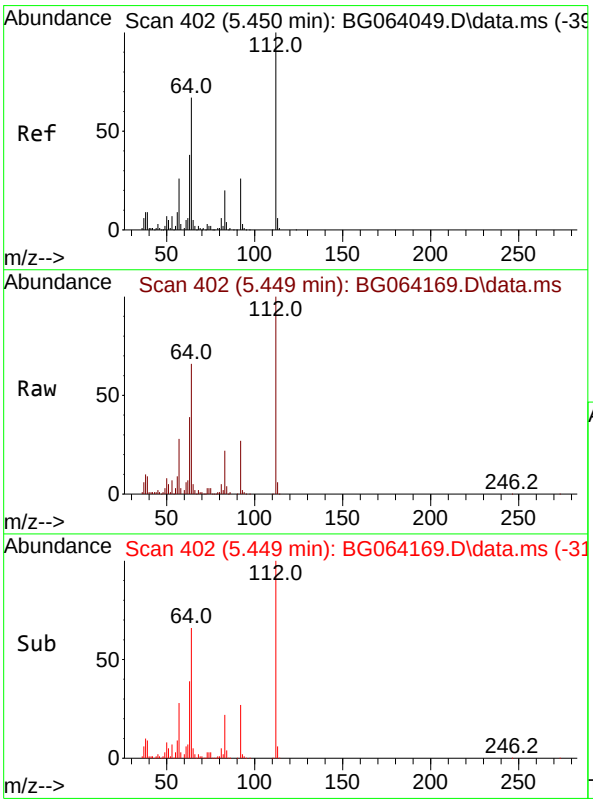
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.858 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion:152 Resp: 29004

Ion	Ratio	Lower	Upper
152	100		
150	135.7	129.2	193.8
115	60.4	63.0	94.6#

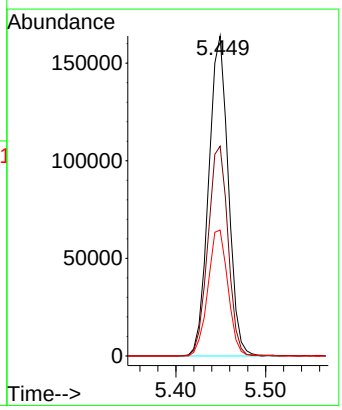


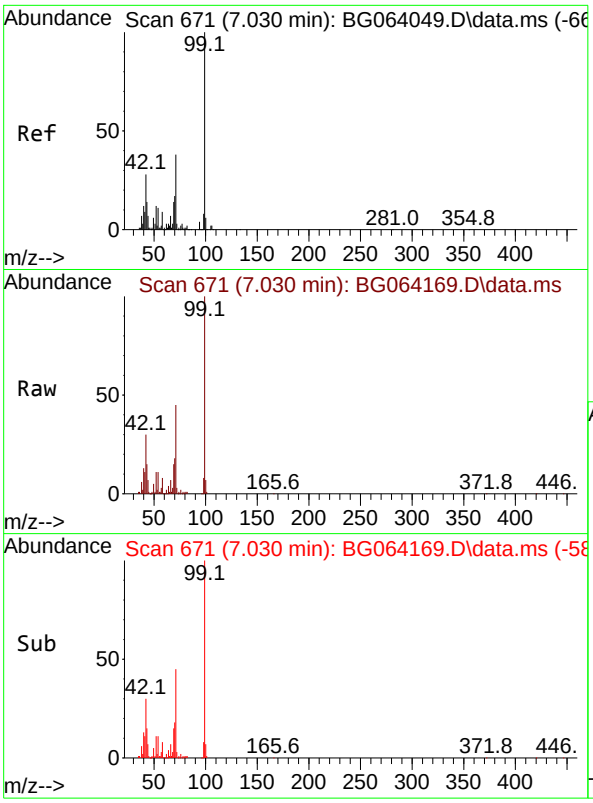


#5
2-Fluorophenol
Concen: 133.676 ng
RT: 5.449 min Scan# 402
Delta R.T. -0.001 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:112 Resp: 248305

Ion	Ratio	Lower	Upper
112	100		
64	65.6	53.7	80.5
63	39.4	30.2	45.4



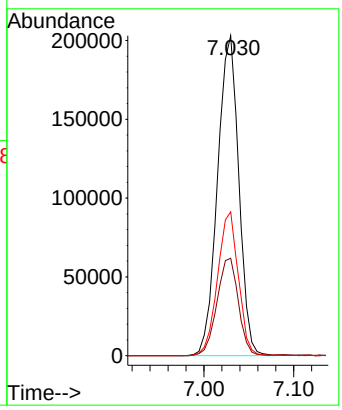


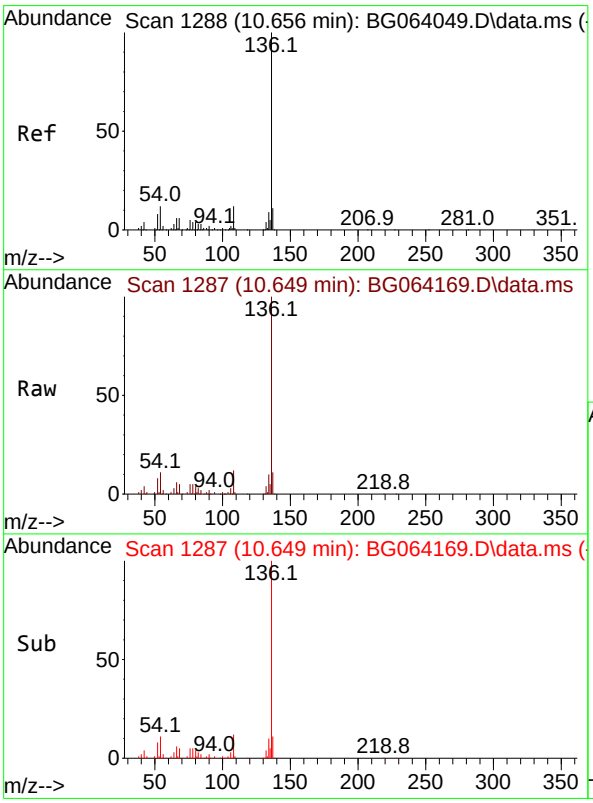
#7
Phenol-d6
Concen: 132.042 ng
RT: 7.030 min Scan# 6
Delta R.T. -0.001 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion: 99 Resp: 333662

Ion	Ratio	Lower	Upper
99	100		
42	30.5	22.7	34.1
71	45.0	30.6	46.0

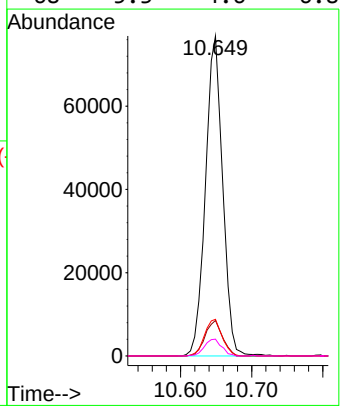


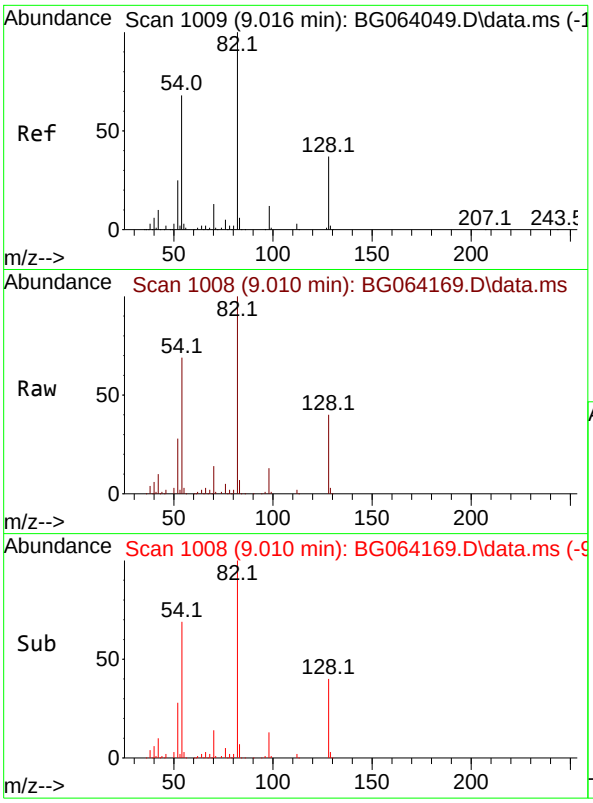


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:136 Resp: 129149

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	11.5	9.9	14.9
68	5.3	4.6	6.8



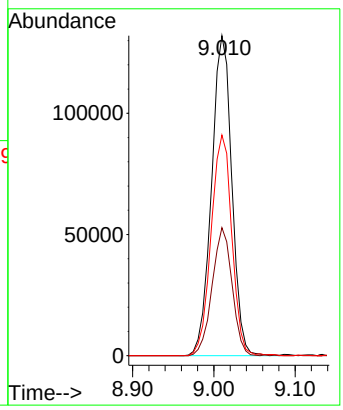


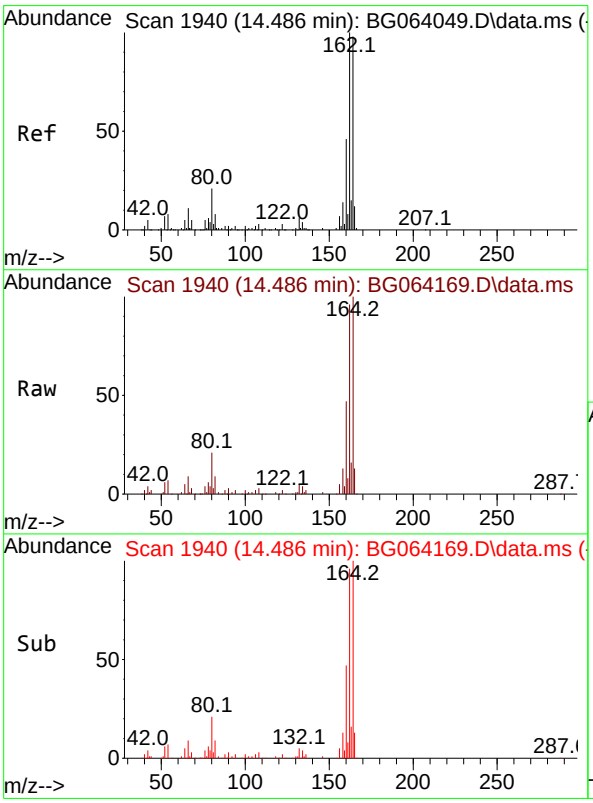
#23
Nitrobenzene-d5
Concen: 97.856 ng
RT: 9.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion: 82 Resp: 228692

Ion	Ratio	Lower	Upper
82	100		
128	40.0	30.0	45.0
54	69.0	54.7	82.1

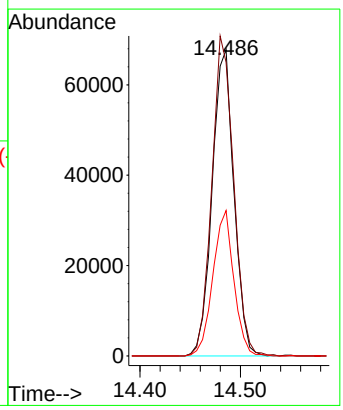


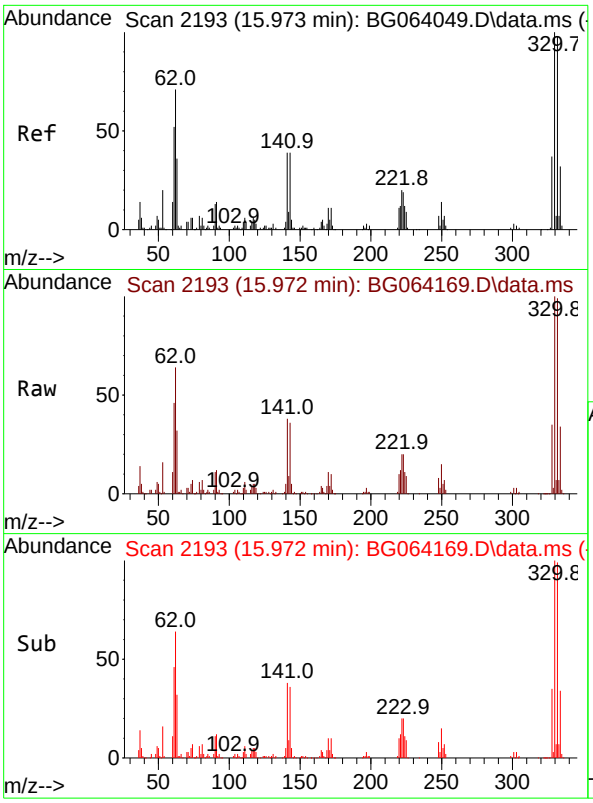


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1940
Delta R.T. -0.000 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:164 Resp: 102109

Ion	Ratio	Lower	Upper
164	100		
162	95.9	81.4	122.0
160	47.5	37.0	55.6



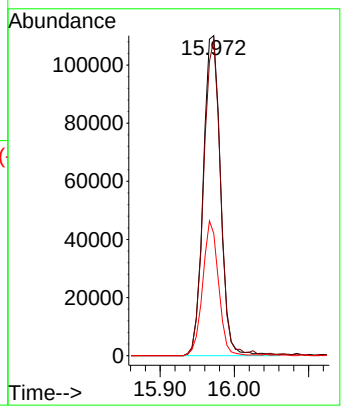


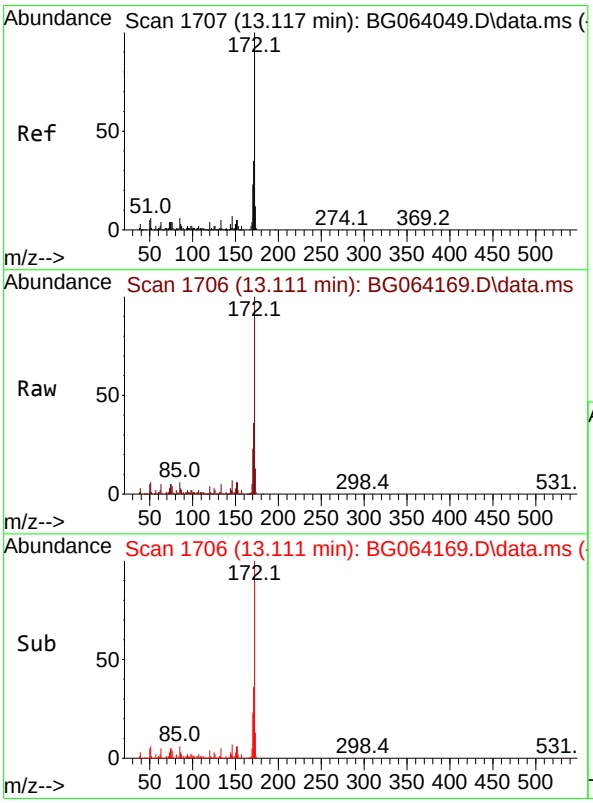
#42
2,4,6-Tribromophenol
Concen: 157.129 ng
RT: 15.972 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion:330 Resp: 178343

Ion	Ratio	Lower	Upper
330	100		
332	96.9	76.7	115.1
141	38.6	29.7	44.5

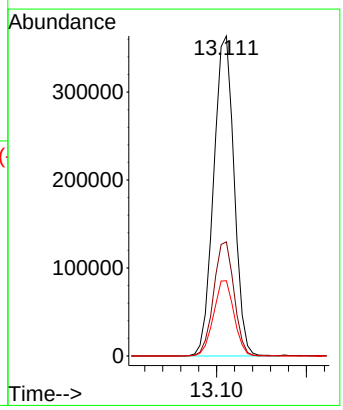


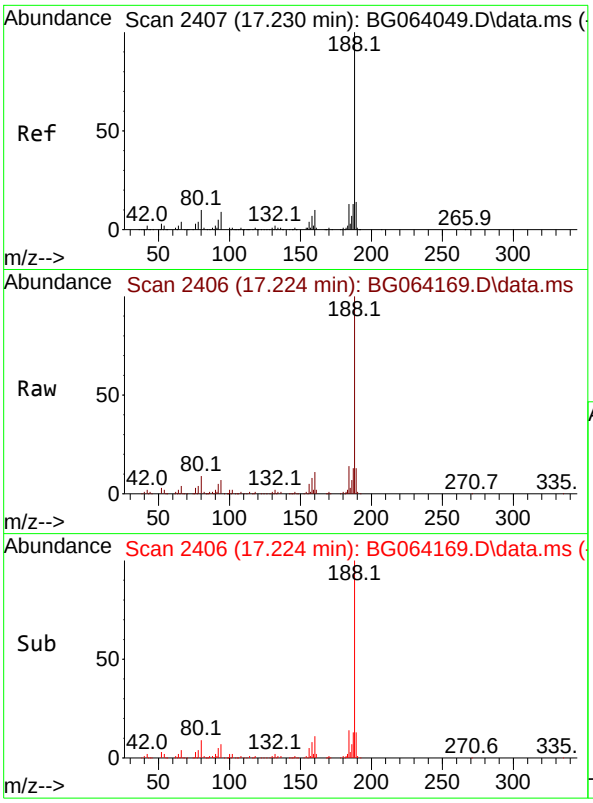


#45
2-Fluorobiphenyl
Concen: 85.409 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.007 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:172 Resp: 574550

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.0	42.0
170	23.5	18.7	28.1



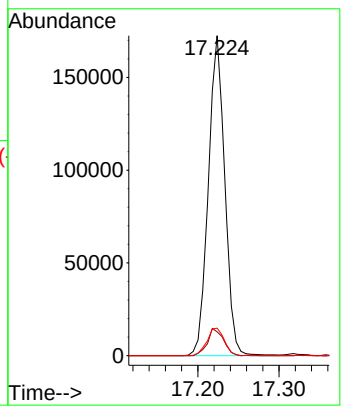


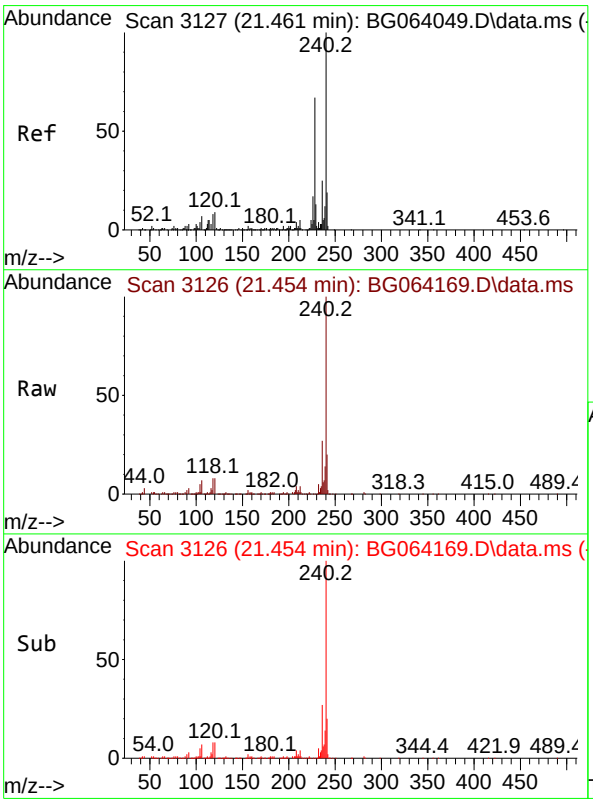
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion:188 Resp: 242395

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.9	10.3
80	8.6	8.1	12.1

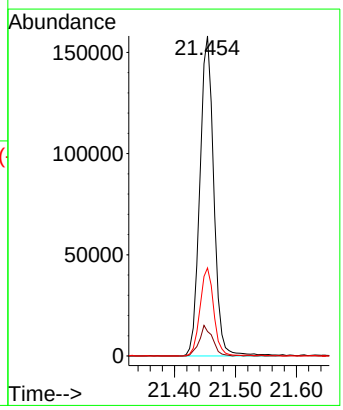


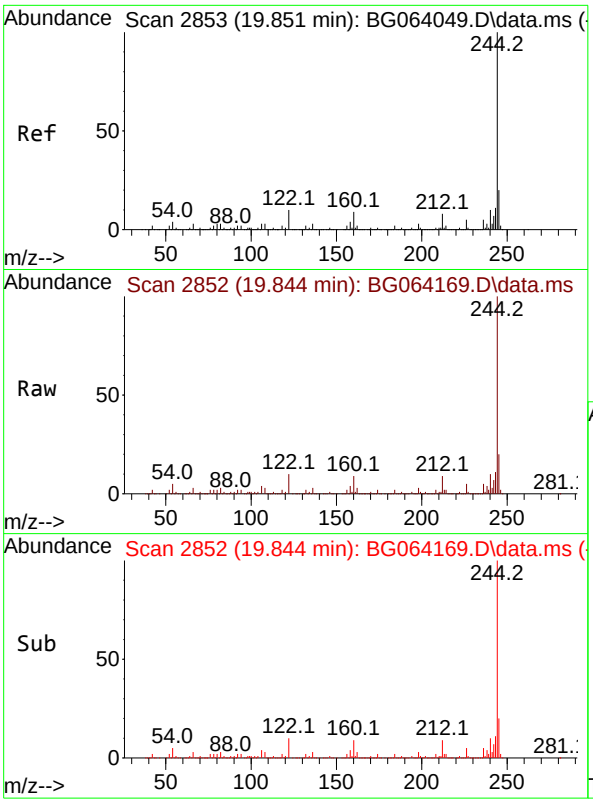


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:240 Resp: 251465

Ion	Ratio	Lower	Upper
240	100		
120	7.6	7.2	10.8
236	27.5	20.2	30.2



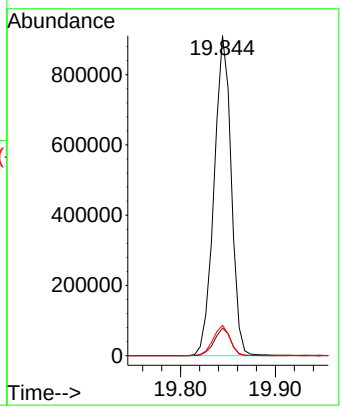


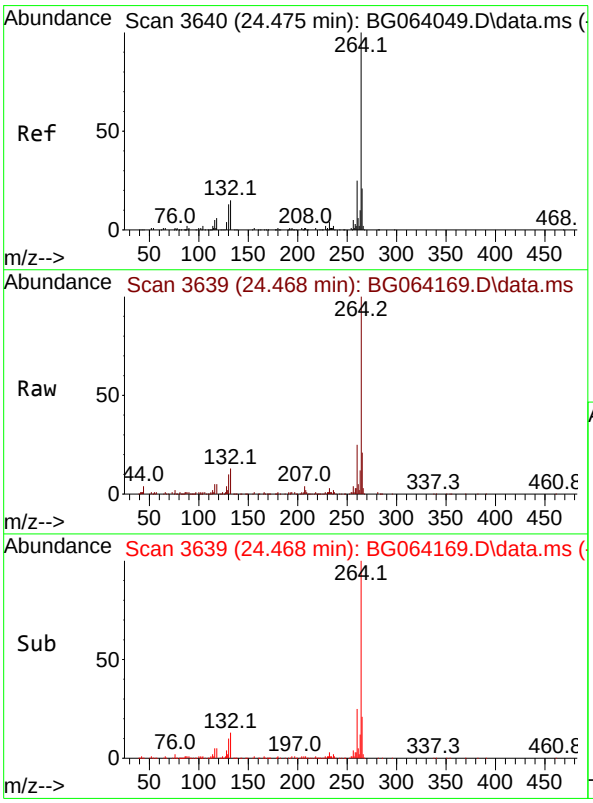
#79
Terphenyl-d14
Concen: 92.099 ng
RT: 19.844 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Instrument :
BNA_G
ClientSampleId :
PB167393TB

Tgt Ion:244 Resp: 1145386

Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.4
122	9.5	8.0	12.0

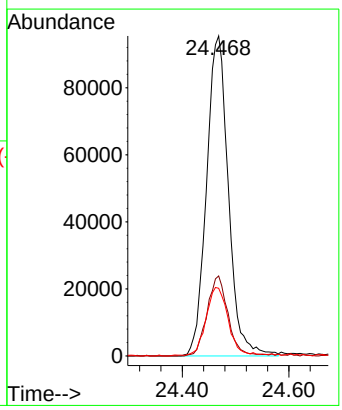




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3639
Delta R.T. -0.006 min
Lab File: BG064169.D
Acq: 3 Apr 2025 16:34

Tgt Ion:264 Resp: 271920

Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.6	29.4
265	21.2	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064134.D	1	03/31/25 11:00	04/01/25 14:23	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064134.D	1	03/31/25 11:00	04/01/25 14:23	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064134.D	1	03/31/25 11:00	04/01/25 14:23	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	55.8		10 - 139	37%	SPK: 150
13127-88-3	Phenol-d6	31.5		10 - 134	21%	SPK: 150
4165-60-0	Nitrobenzene-d5	112		49 - 133	112%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		52 - 132	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	195		44 - 137	130%	SPK: 150
1718-51-0	Terphenyl-d14	102		48 - 125	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	36100	7.861			
1146-65-2	Naphthalene-d8	146000	10.646			
15067-26-2	Acenaphthene-d10	101000	14.483			
1517-22-2	Phenanthrene-d10	238000	17.221			
1719-03-5	Chrysene-d12	264000	21.451			
1520-96-3	Perylene-d12	281000	24.465			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064134.D
Acq On : 1 Apr 2025 14:23
Operator : RC/JU
Sample : Q1664-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Apr 01 15:14:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

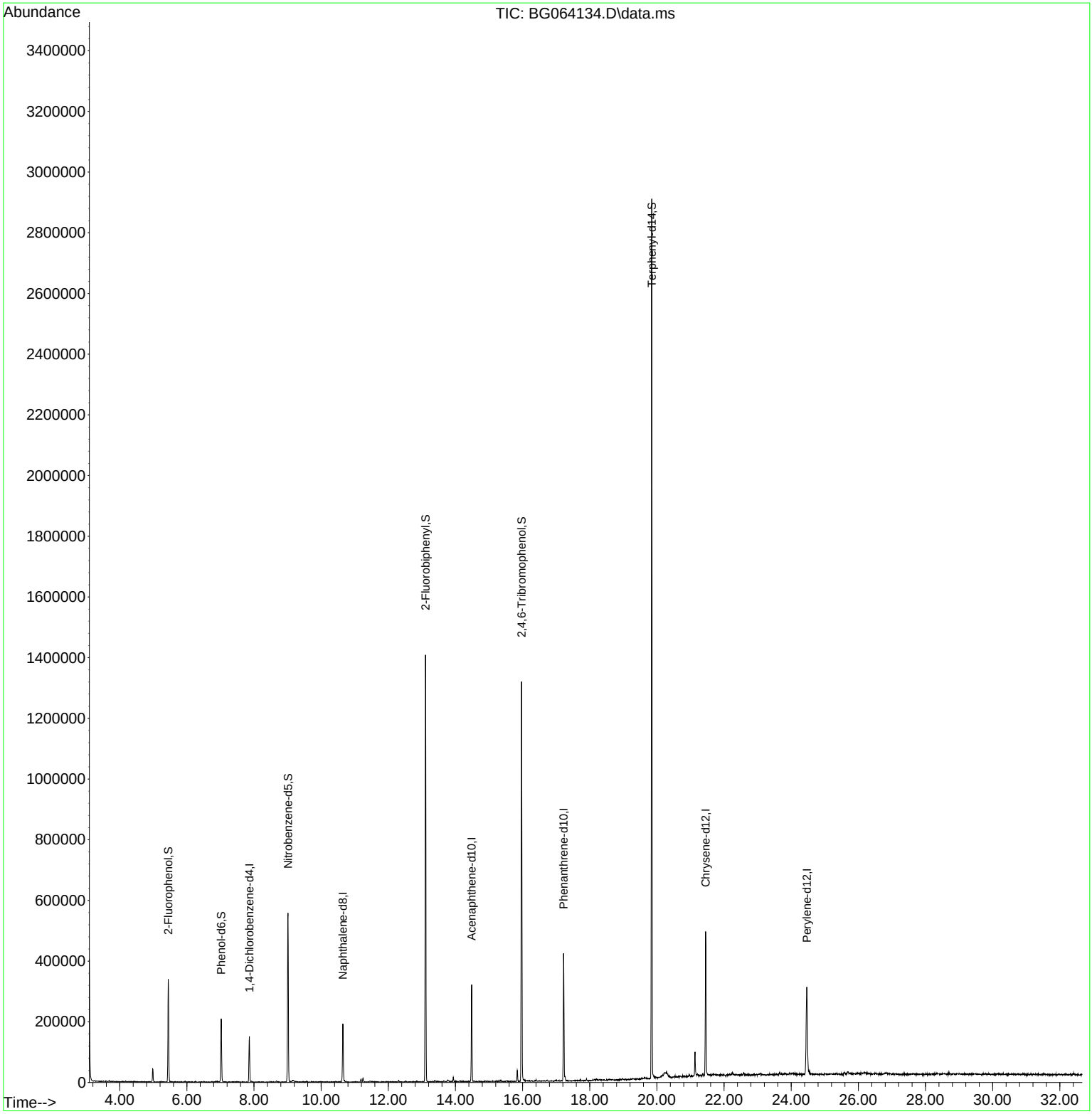
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	36149	20.000	ng	0.00
21) Naphthalene-d8	10.646	136	145902	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	100632	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	238066	20.000	ng	0.00
76) Chrysene-d12	21.451	240	264272	20.000	ng	0.00
86) Perylene-d12	24.465	264	280516	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.446	112	129141	55.782	ng	0.00
7) Phenol-d6	7.021	99	99308	31.532	ng	0.00
23) Nitrobenzene-d5	9.013	82	296088	112.146	ng	0.00
42) 2,4,6-Tribromophenol	15.969	330	218053	194.935	ng	0.00
45) 2-Fluorobiphenyl	13.108	172	664307	100.201	ng	0.00
79) Terphenyl-d14	19.847	244	1338604	102.419	ng	0.00
Target Compounds						Qvalue

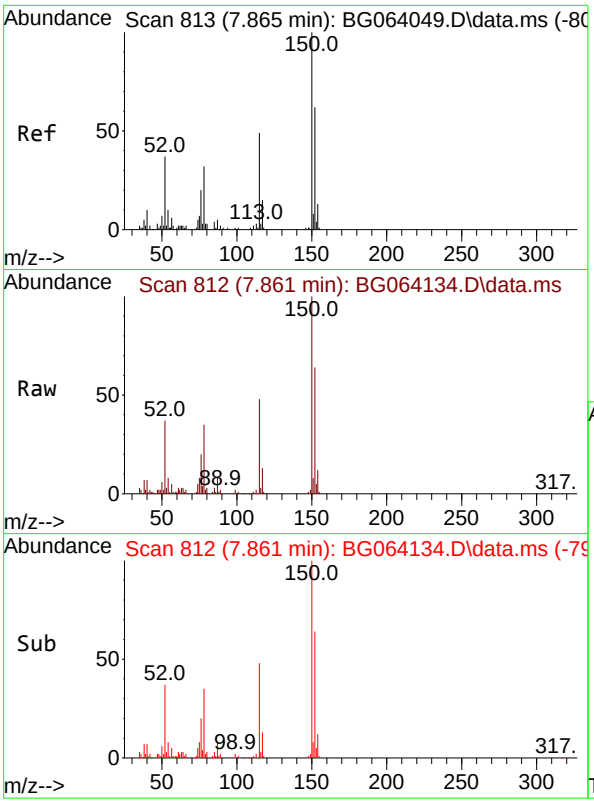
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064134.D
Acq On : 1 Apr 2025 14:23
Operator : RC/JU
Sample : Q1664-04
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Quant Time: Apr 01 15:14:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



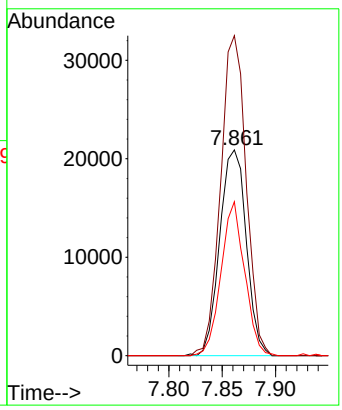


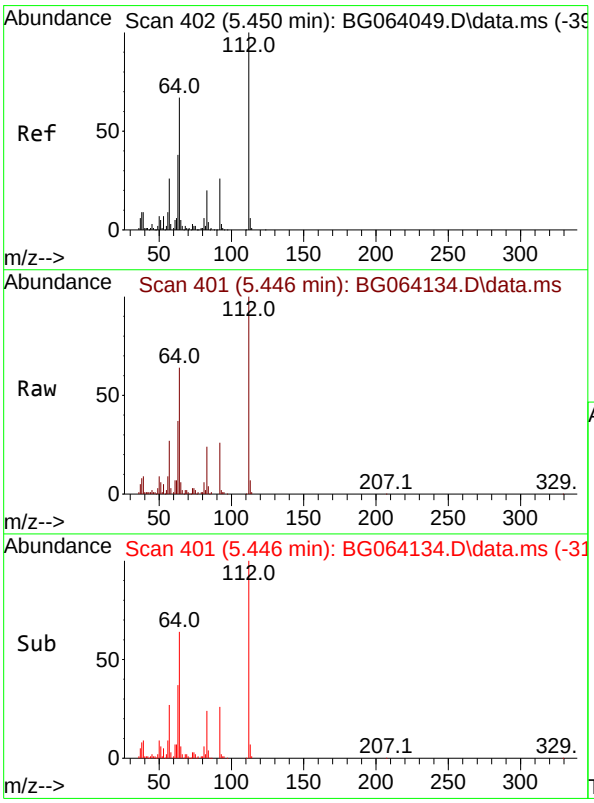
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:152 Resp: 36149

Ion	Ratio	Lower	Upper
152	100		
150	155.5	129.2	193.8
115	74.8	63.0	94.6

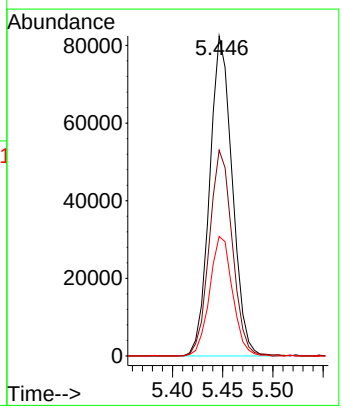


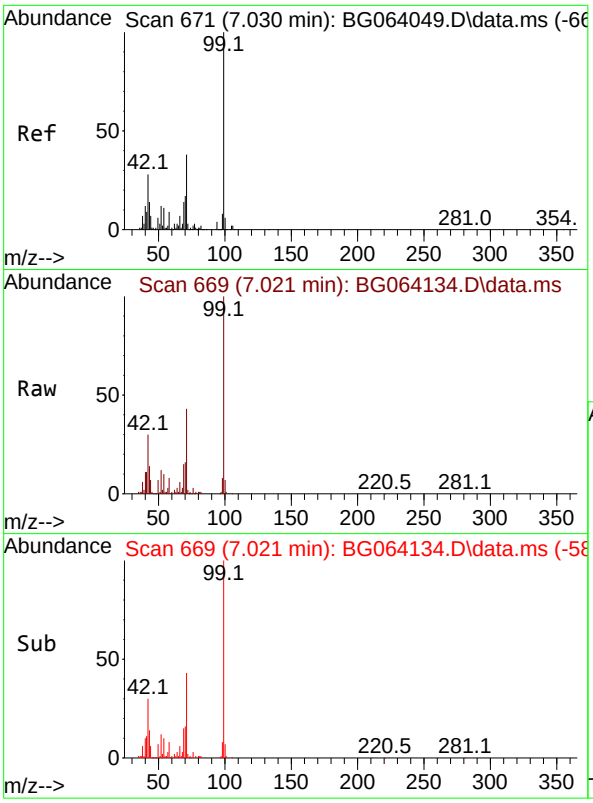


#5
2-Fluorophenol
Concen: 55.782 ng
RT: 5.446 min Scan# 401
Delta R.T. -0.003 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:112 Resp: 129141

Ion	Ratio	Lower	Upper
112	100		
64	64.3	53.7	80.5
63	37.4	30.2	45.4



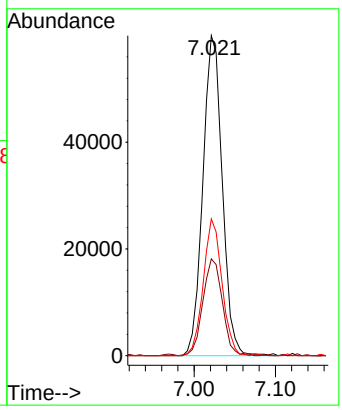


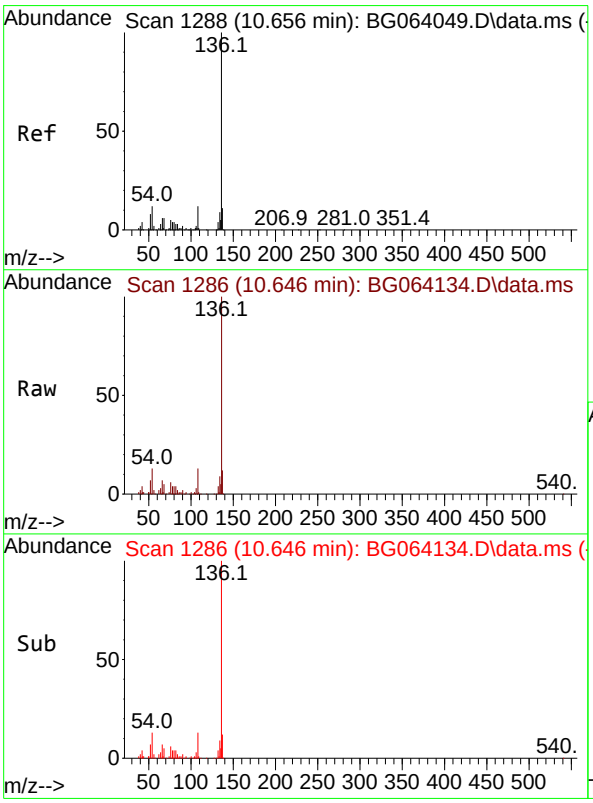
#7
Phenol-d6
Concen: 31.532 ng
RT: 7.021 min Scan# 6
Delta R.T. -0.009 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion: 99 Resp: 99308

Ion	Ratio	Lower	Upper
99	100		
42	30.3	22.7	34.1
71	42.7	30.6	46.0

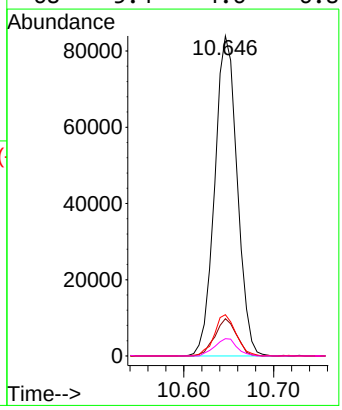


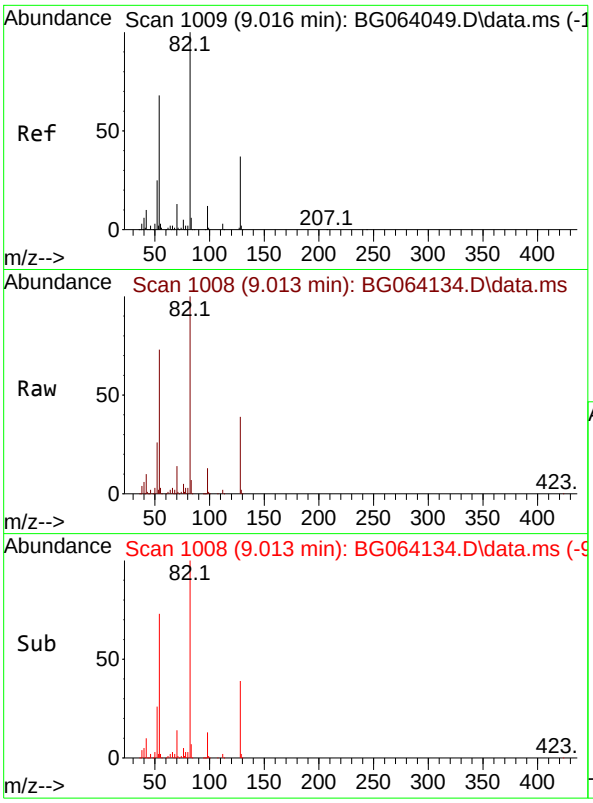


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.646 min Scan# 1286
Delta R.T. -0.010 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:136 Resp: 145902

Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.5	12.7
54	12.9	9.9	14.9
68	5.4	4.6	6.8



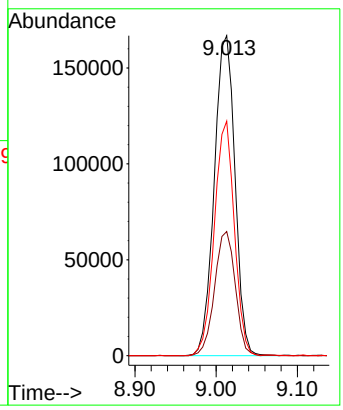


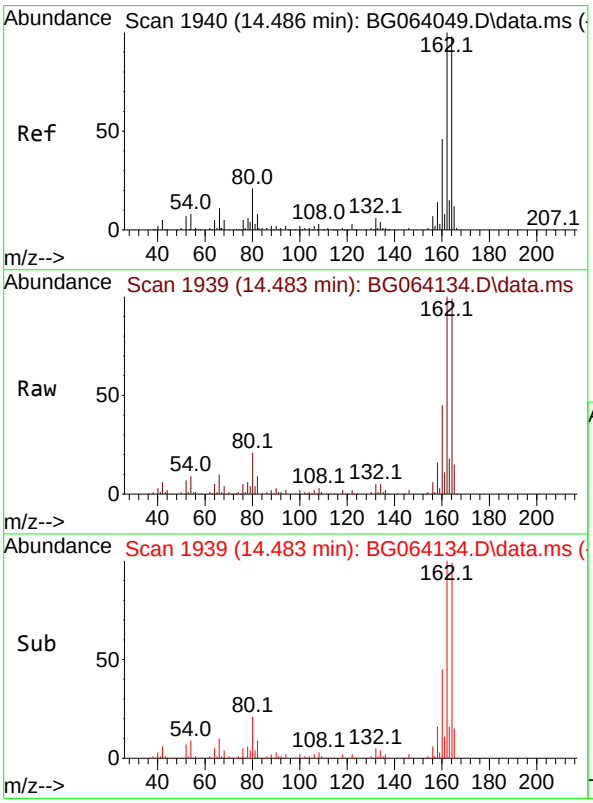
#23
Nitrobenzene-d5
Concen: 112.146 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion: 82 Resp: 296088

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.0	45.0
54	73.3	54.7	82.1

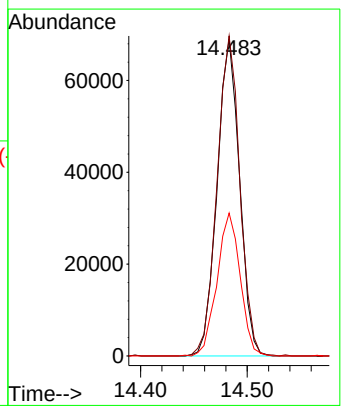


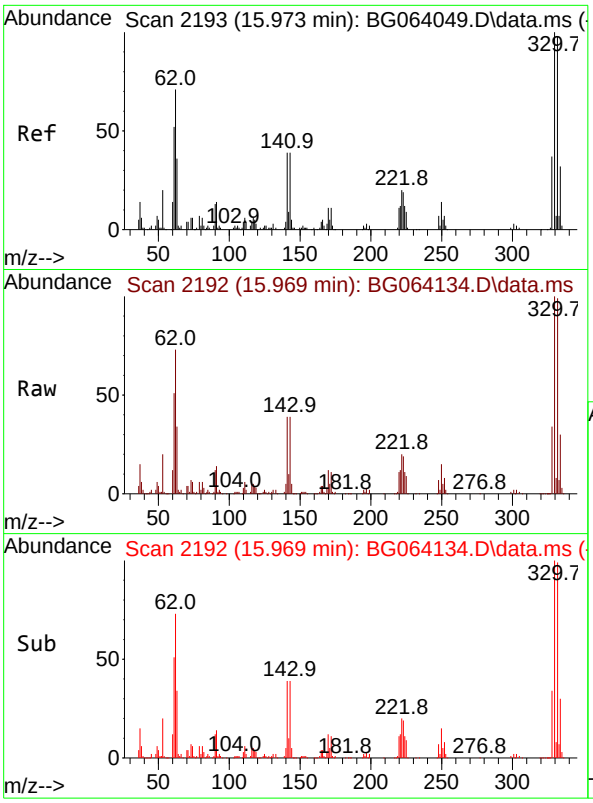


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:164 Resp: 100632

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.4	122.0
160	45.1	37.0	55.6



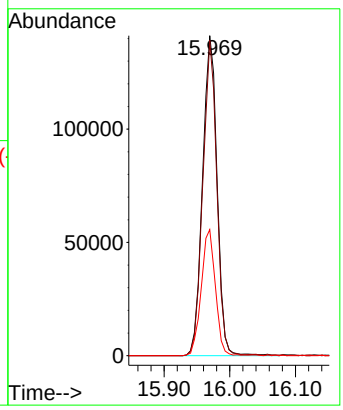


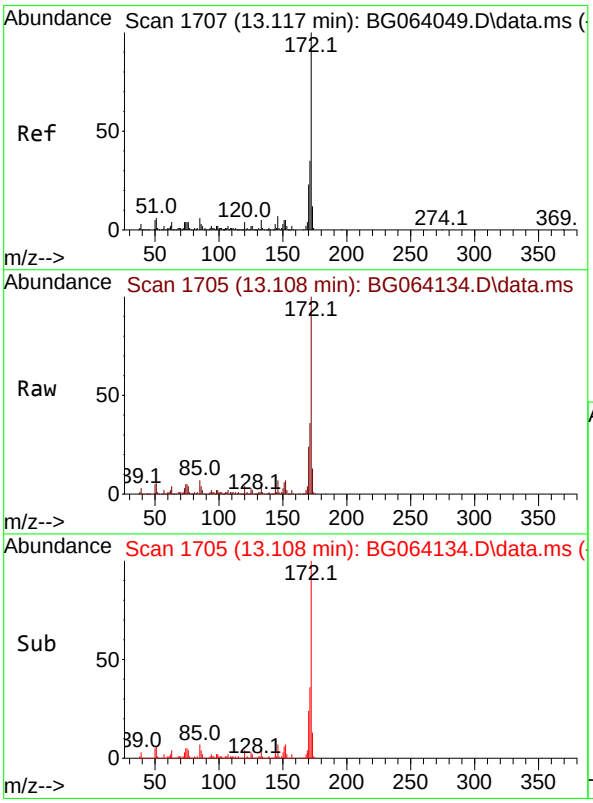
#42
2,4,6-Tribromophenol
Concen: 194.935 ng
RT: 15.969 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:330 Resp: 218053

Ion	Ratio	Lower	Upper
330	100		
332	94.4	76.7	115.1
141	38.4	29.7	44.5

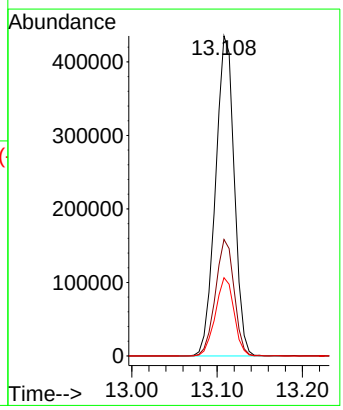


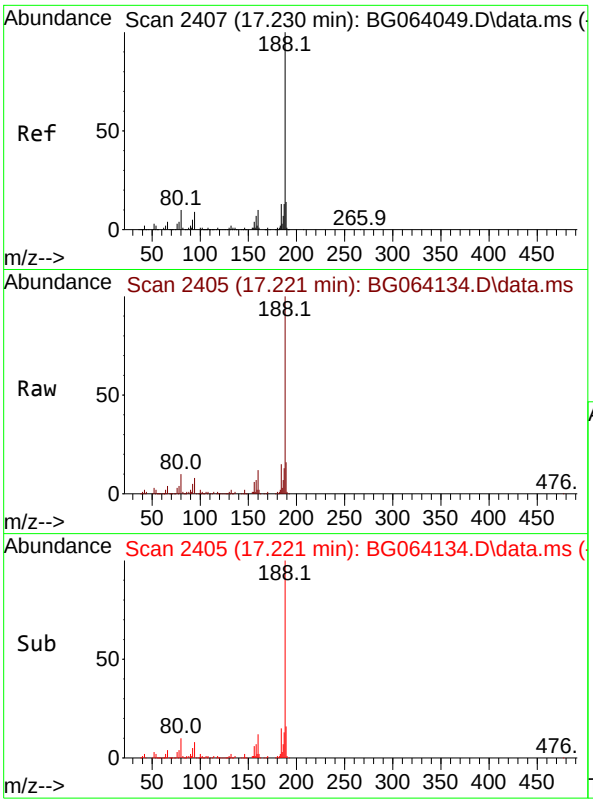


#45
2-Fluorobiphenyl
Concen: 100.201 ng
RT: 13.108 min Scan# 1705
Delta R.T. -0.009 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:172 Resp: 664307

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.0	42.0
170	24.5	18.7	28.1



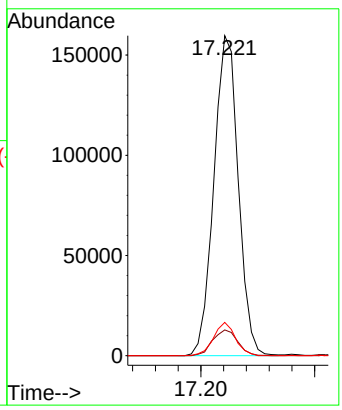


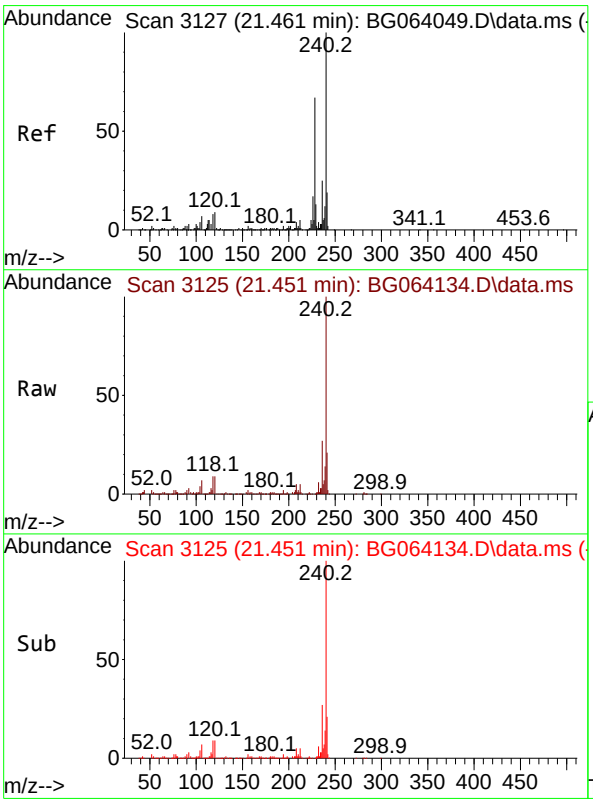
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 24
Delta R.T. -0.009 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:188 Resp: 238066

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.9	10.3
80	10.4	8.1	12.1

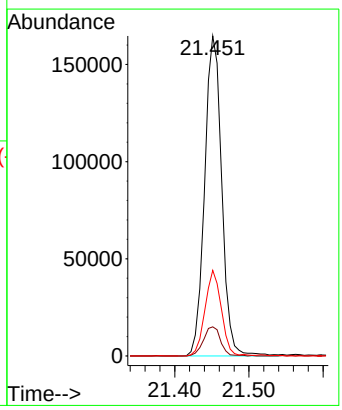


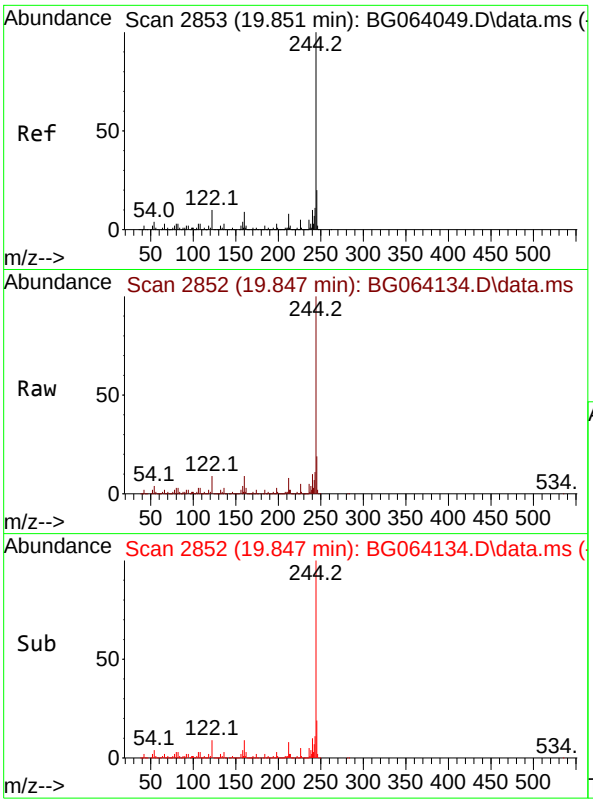


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. -0.009 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:240 Resp: 264272

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.2	10.8
236	26.7	20.2	30.2



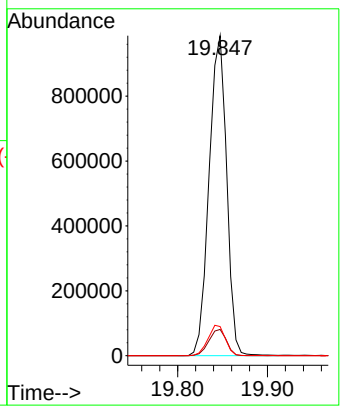


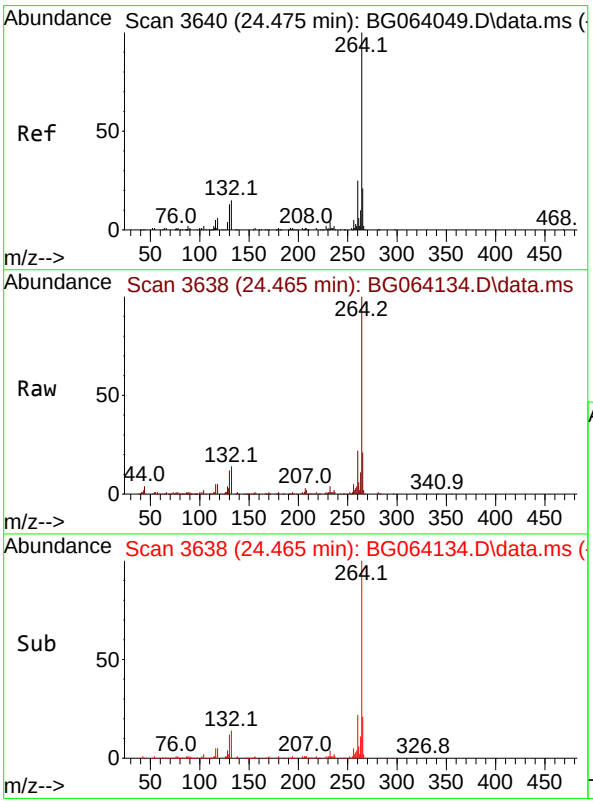
#79
Terphenyl-d14
Concen: 102.419 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01

Tgt Ion:244 Resp: 1338604

Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.2	9.4
122	9.1	8.0	12.0

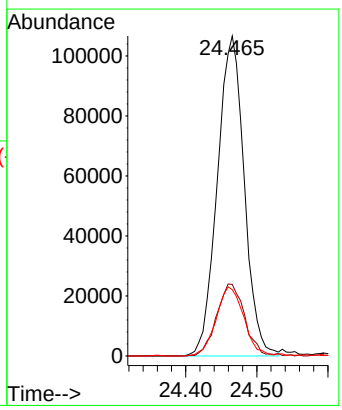




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.465 min Scan# 3638
Delta R.T. -0.009 min
Lab File: BG064134.D
Acq: 1 Apr 2025 14:23

Tgt Ion:264 Resp: 280516

Ion	Ratio	Lower	Upper
264	100		
260	22.4	19.6	29.4
265	20.7	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064137.D	1	03/31/25 11:00	04/01/25 16:24	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064137.D	1	03/31/25 11:00	04/01/25 16:24	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-02	SDG No.:	Q1664
Lab Sample ID:	Q1664-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064137.D	1	03/31/25 11:00	04/01/25 16:24	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.8		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	34.6		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	117		49 - 133	117%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		52 - 132	104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	199		44 - 137	132%	SPK: 150
1718-51-0	Terphenyl-d14	99.2		48 - 125	99%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	33100	7.859			
1146-65-2	Naphthalene-d8	138000	10.649			
15067-26-2	Acenaphthene-d10	94400	14.48			
1517-22-2	Phenanthrene-d10	227000	17.224			
1719-03-5	Chrysene-d12	264000	21.454			
1520-96-3	Perylene-d12	282000	24.463			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064137.D
Acq On : 1 Apr 2025 16:24
Operator : RC/JU
Sample : Q1664-08
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Apr 01 17:00:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

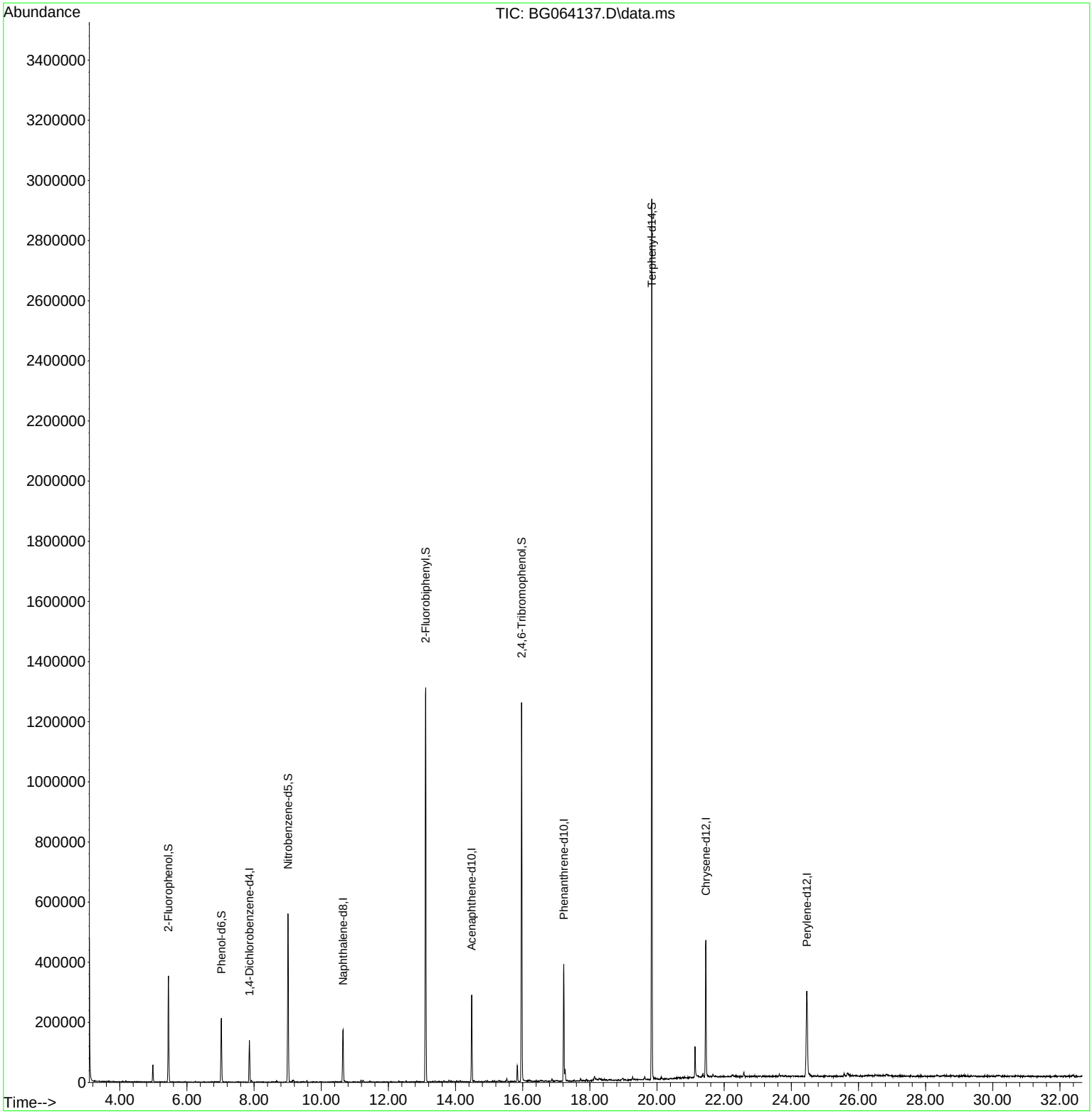
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.859	152	33101	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	138071	20.000	ng	0.00
39) Acenaphthene-d10	14.480	164	94366	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	226571	20.000	ng	0.00
76) Chrysene-d12	21.454	240	263789	20.000	ng	0.00
86) Perylene-d12	24.463	264	282032	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	130931	61.763	ng	0.00
7) Phenol-d6	7.024	99	99886	34.636	ng	0.00
23) Nitrobenzene-d5	9.010	82	291075	116.501	ng	0.00
42) 2,4,6-Tribromophenol	15.967	330	208468	198.741	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	648499	104.311	ng	0.00
79) Terphenyl-d14	19.844	244	1294502	99.226	ng	0.00
Target Compounds						Qvalue

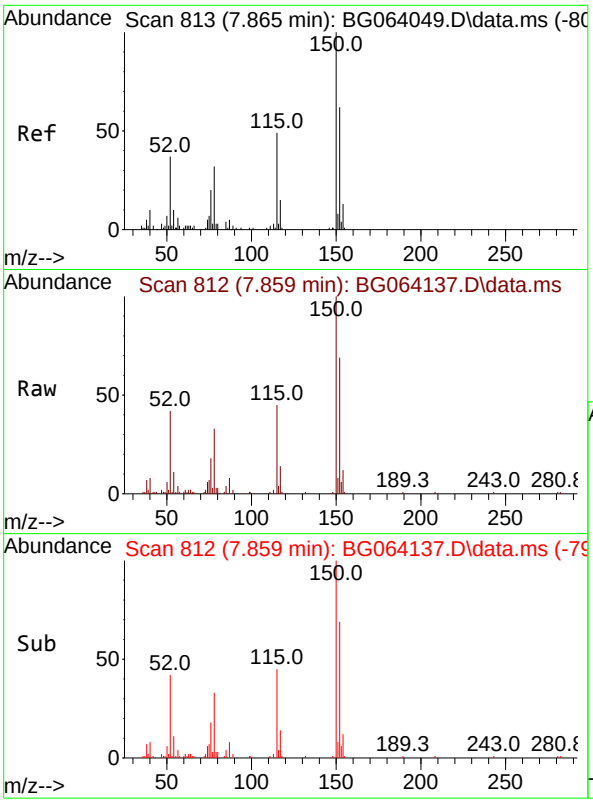
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064137.D
Acq On : 1 Apr 2025 16:24
Operator : RC/JU
Sample : Q1664-08
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Quant Time: Apr 01 17:00:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



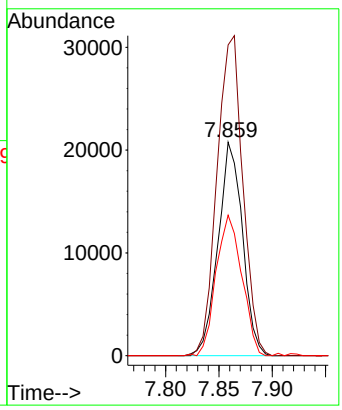


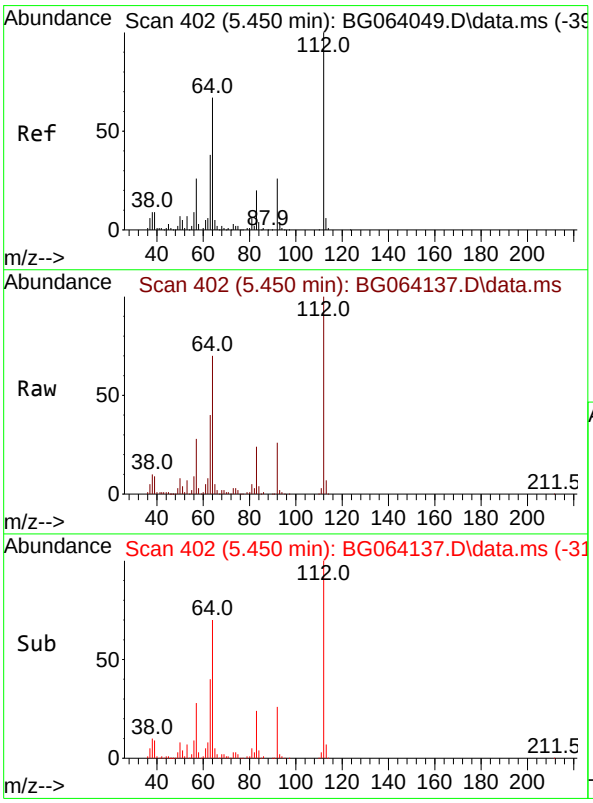
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.859 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:152 Resp: 33101

Ion	Ratio	Lower	Upper
152	100		
150	145.6	129.2	193.8
115	65.8	63.0	94.6

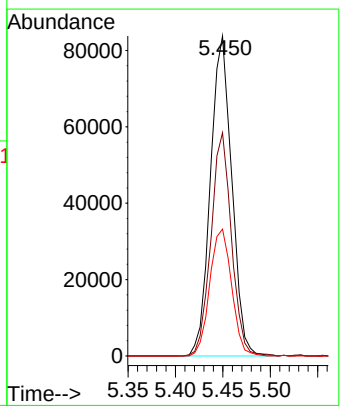


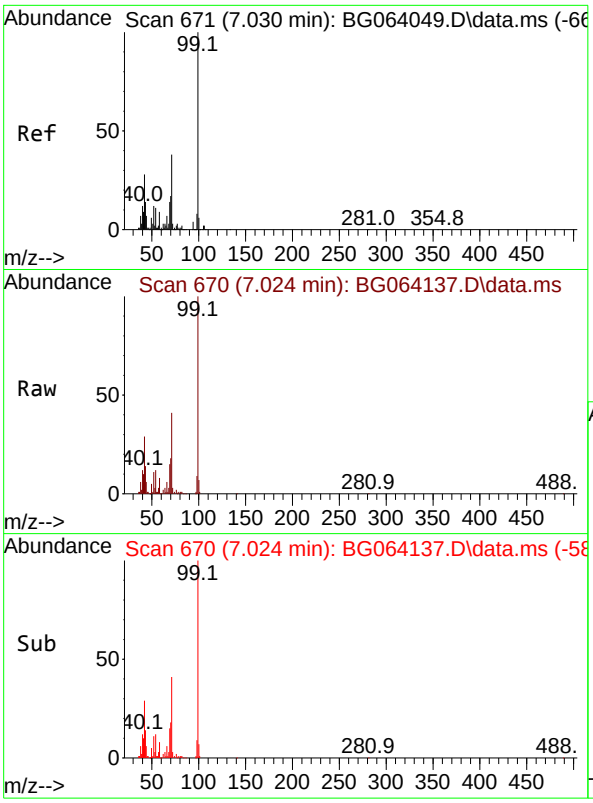


#5
2-Fluorophenol
Concen: 61.763 ng
RT: 5.450 min Scan# 402
Delta R.T. -0.000 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:112 Resp: 130931

Ion	Ratio	Lower	Upper
112	100		
64	69.7	53.7	80.5
63	39.6	30.2	45.4



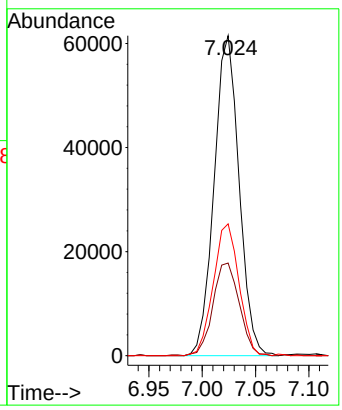


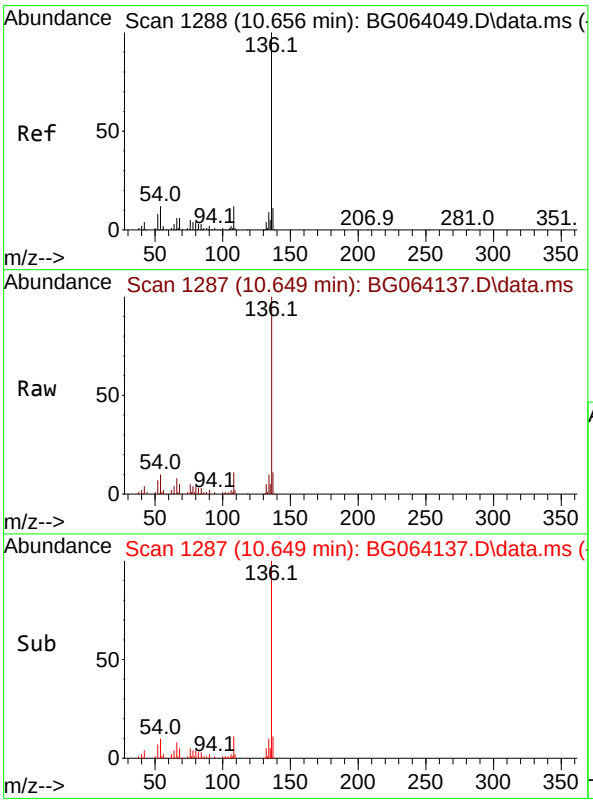
#7
Phenol-d6
Concen: 34.636 ng
RT: 7.024 min Scan# 6
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion: 99 Resp: 99886

Ion	Ratio	Lower	Upper
99	100		
42	29.0	22.7	34.1
71	41.2	30.6	46.0

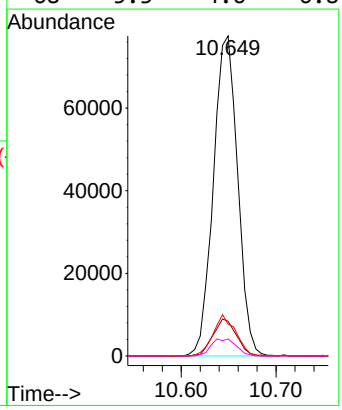


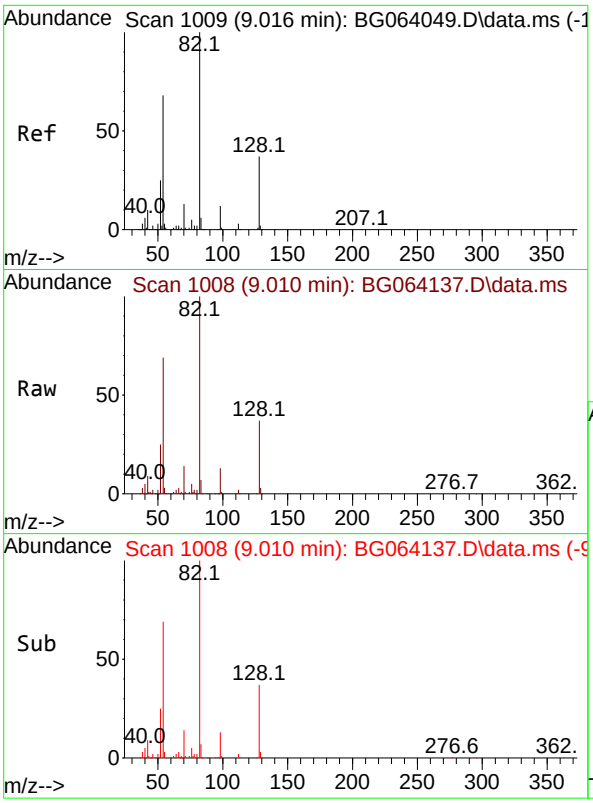


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:136 Resp: 138071

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	10.0	9.9	14.9
68	5.3	4.6	6.8



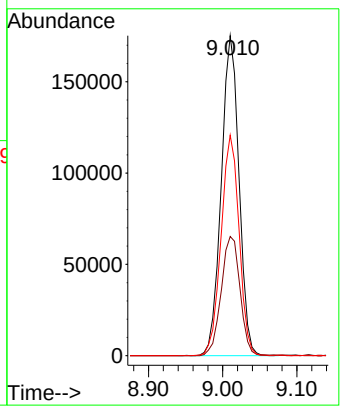


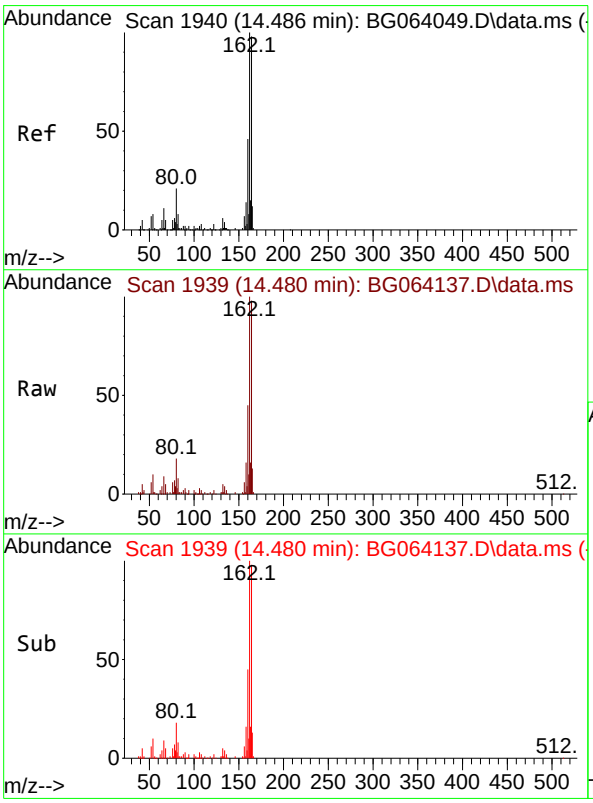
#23
Nitrobenzene-d5
Concen: 116.501 ng
RT: 9.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion: 82 Resp: 291075

Ion	Ratio	Lower	Upper
82	100		
128	37.3	30.0	45.0
54	68.9	54.7	82.1

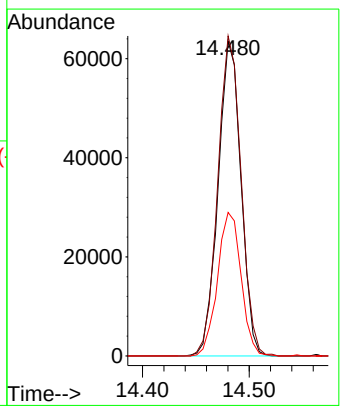


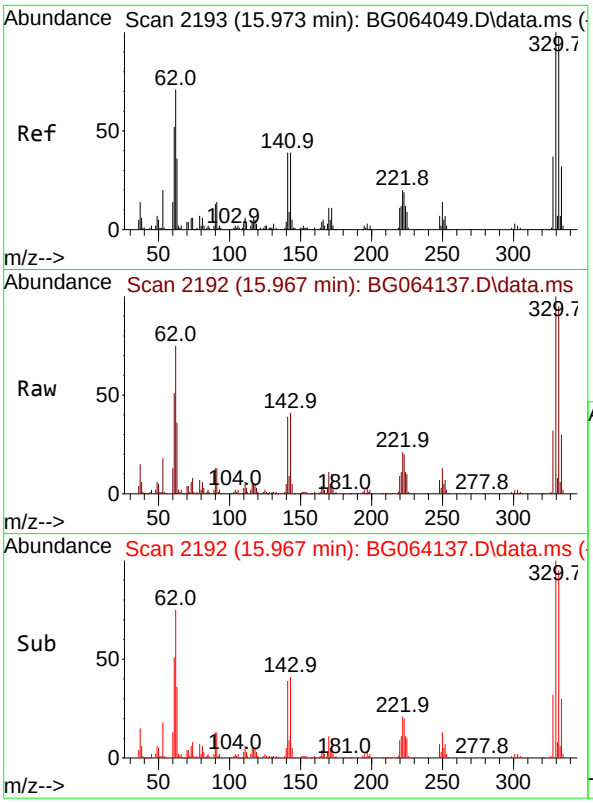


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.480 min Scan# 1939
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:164 Resp: 94366

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.4	122.0
160	45.6	37.0	55.6



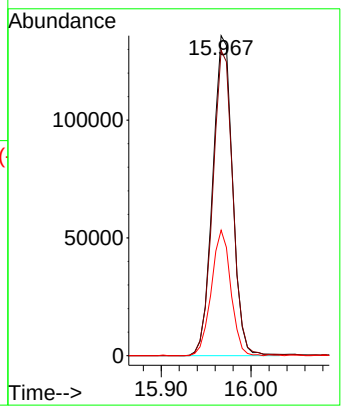


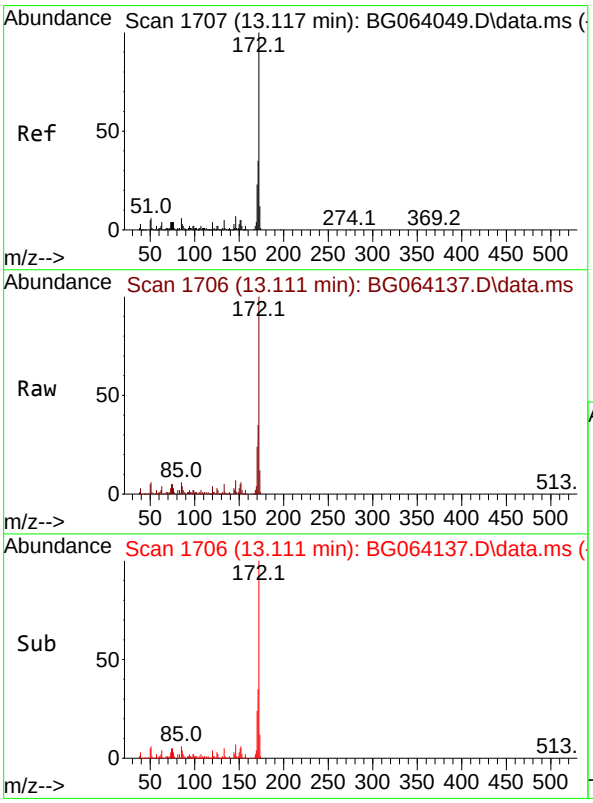
#42
2,4,6-Tribromophenol
Concen: 198.741 ng
RT: 15.967 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:330 Resp: 208468

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.7	115.1
141	38.4	29.7	44.5

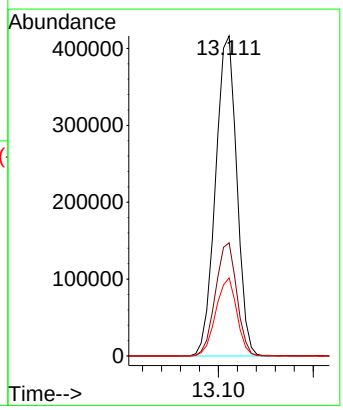


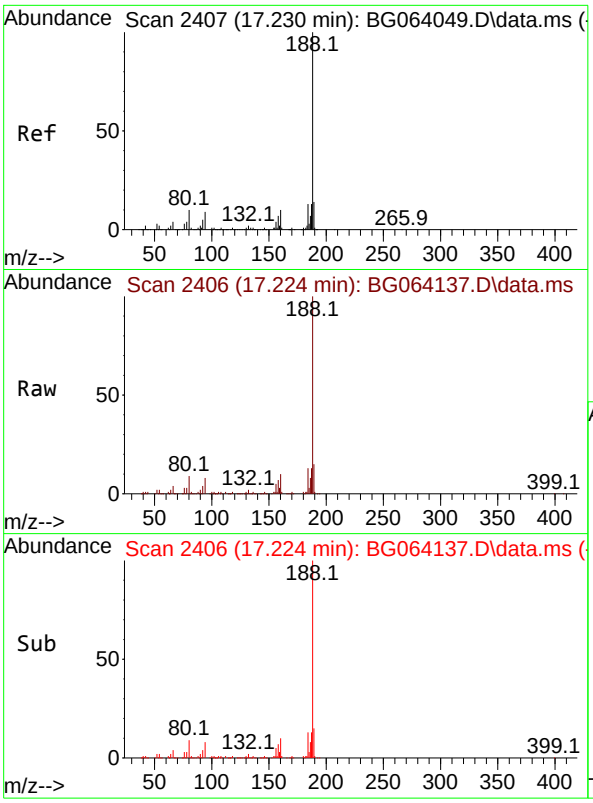


#45
2-Fluorobiphenyl
Concen: 104.311 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:172 Resp: 648499

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.0	42.0
170	24.4	18.7	28.1



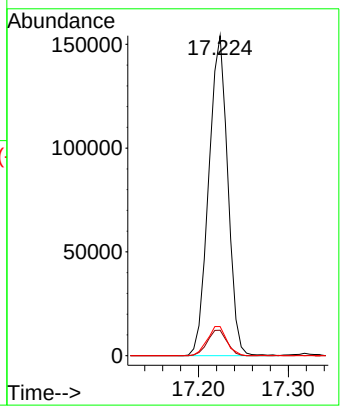


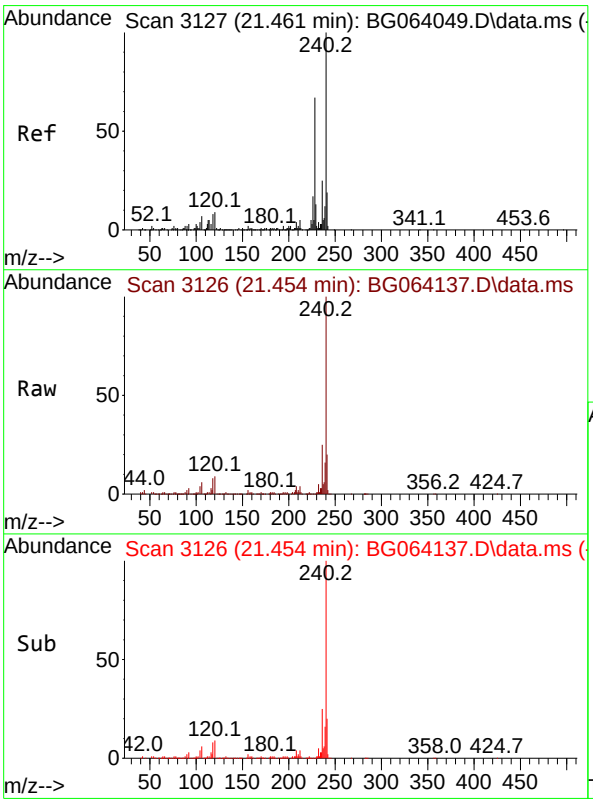
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:188 Resp: 226571

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.9	10.3
80	9.1	8.1	12.1

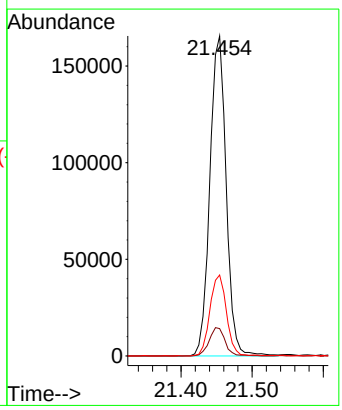


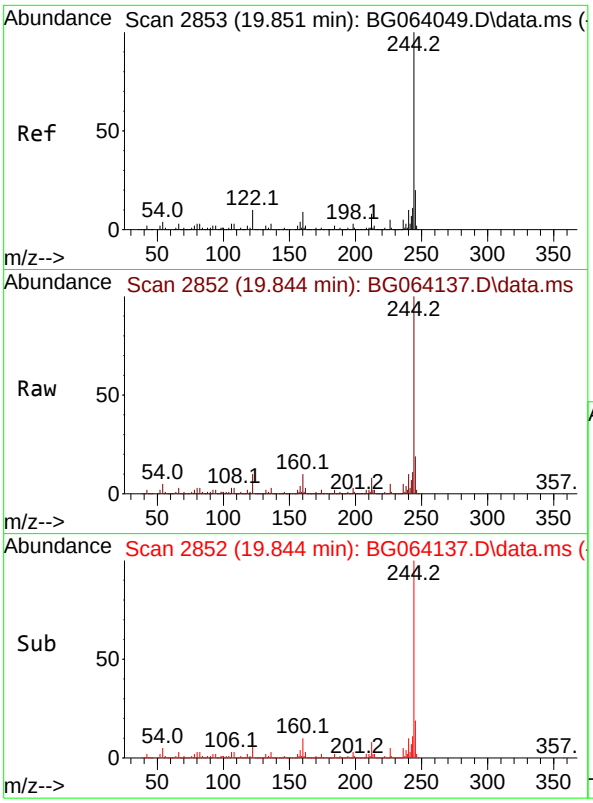


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:240 Resp: 263789

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.2	10.8
236	25.3	20.2	30.2



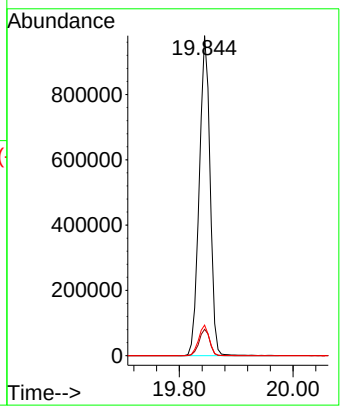


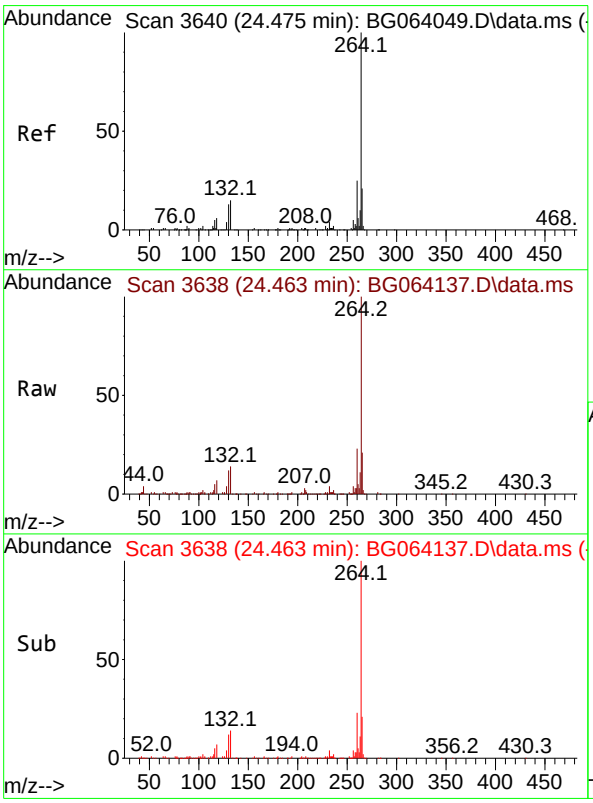
#79
Terphenyl-d14
Concen: 99.226 ng
RT: 19.844 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-02

Tgt Ion:244 Resp: 1294502

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.4
122	9.5	8.0	12.0

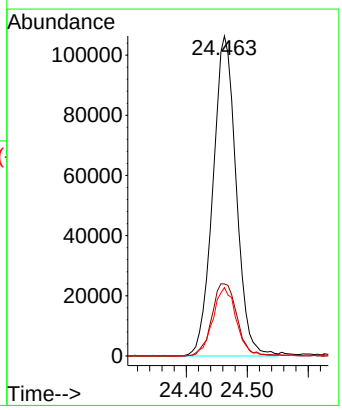




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.463 min Scan# 3638
Delta R.T. -0.012 min
Lab File: BG064137.D
Acq: 1 Apr 2025 16:24

Tgt Ion:264 Resp: 282032

Ion	Ratio	Lower	Upper
264	100		
260	22.5	19.6	29.4
265	21.4	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064138.D	1	03/31/25 11:00	04/01/25 17:04	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064138.D	1	03/31/25 11:00	04/01/25 17:04	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-002-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-10	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064138.D	1	03/31/25 11:00	04/01/25 17:04	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.5		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	34.9		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	118		49 - 133	118%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		52 - 132	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	204		44 - 137	136%	SPK: 150
1718-51-0	Terphenyl-d14	107		48 - 125	107%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32900	7.859			
1146-65-2	Naphthalene-d8	138000	10.644			
15067-26-2	Acenaphthene-d10	91900	14.481			
1517-22-2	Phenanthrene-d10	219000	17.224			
1719-03-5	Chrysene-d12	250000	21.449			
1520-96-3	Perylene-d12	273000	24.463			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064138.D
Acq On : 1 Apr 2025 17:04
Operator : RC/JU
Sample : Q1664-10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Apr 01 17:47:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

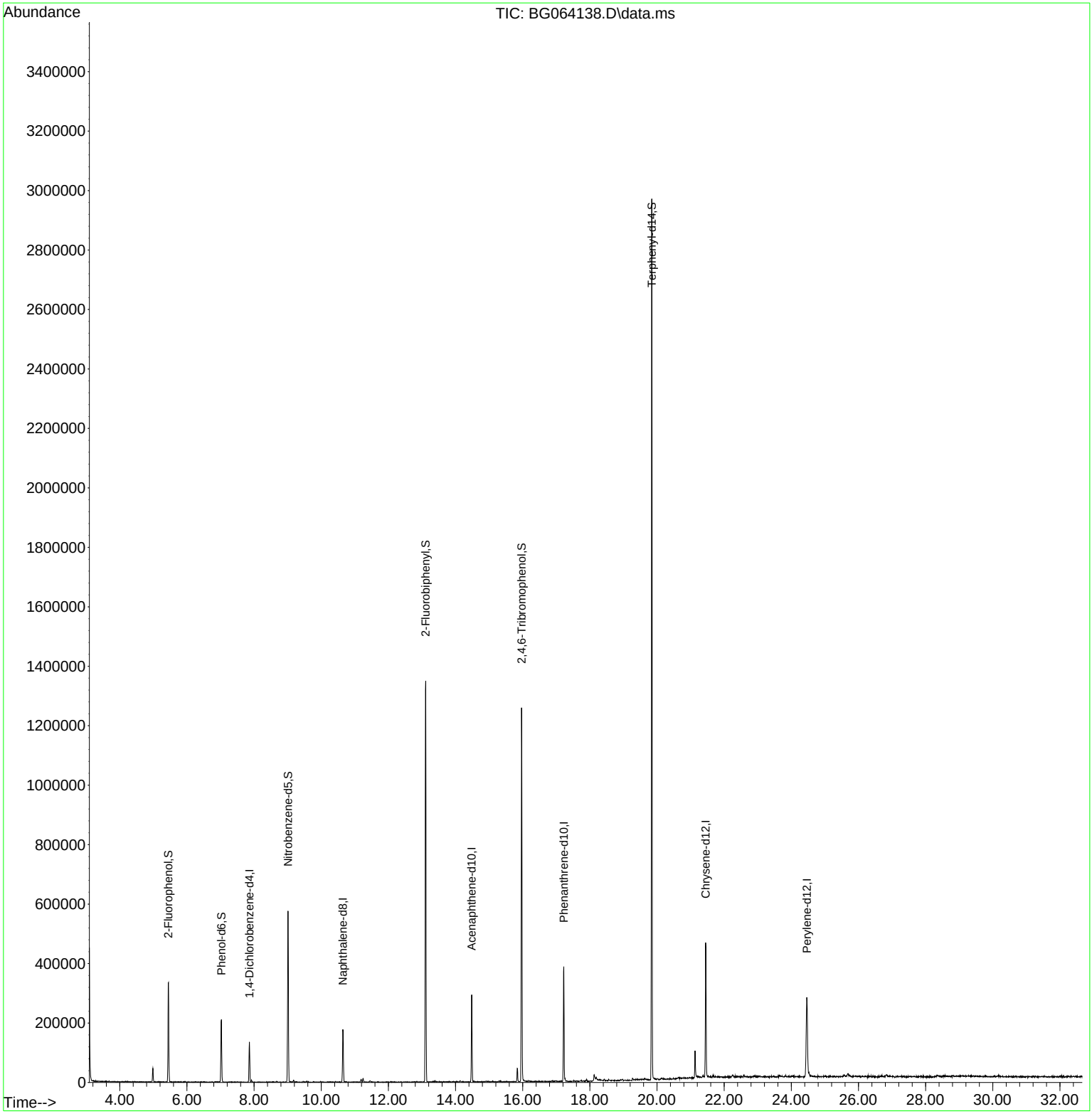
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.859	152	32858	20.000	ng	0.00
21) Naphthalene-d8	10.644	136	138416	20.000	ng	-0.01
39) Acenaphthene-d10	14.481	164	91944	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	218786	20.000	ng	0.00
76) Chrysene-d12	21.449	240	249872	20.000	ng	#-0.01
86) Perylene-d12	24.463	264	272575	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	129446	61.514	ng	0.00
7) Phenol-d6	7.025	99	99786	34.857	ng	0.00
23) Nitrobenzene-d5	9.011	82	295610	118.021	ng	0.00
42) 2,4,6-Tribromophenol	15.967	330	208650	204.154	ng	0.00
45) 2-Fluorobiphenyl	13.112	172	657467	108.540	ng	0.00
79) Terphenyl-d14	19.845	244	1322188	106.993	ng	0.00
Target Compounds						Qvalue

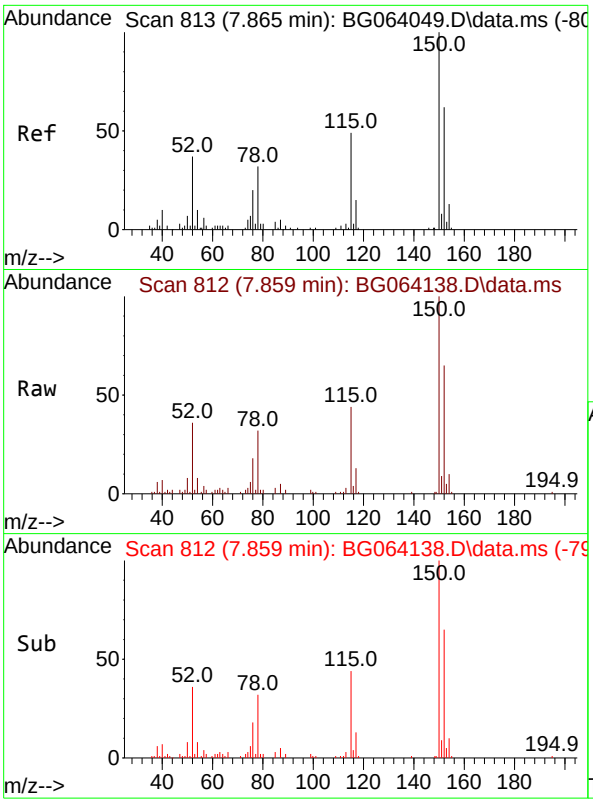
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064138.D
Acq On : 1 Apr 2025 17:04
Operator : RC/JU
Sample : Q1664-10
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Quant Time: Apr 01 17:47:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



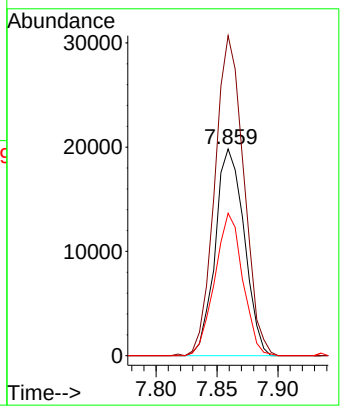


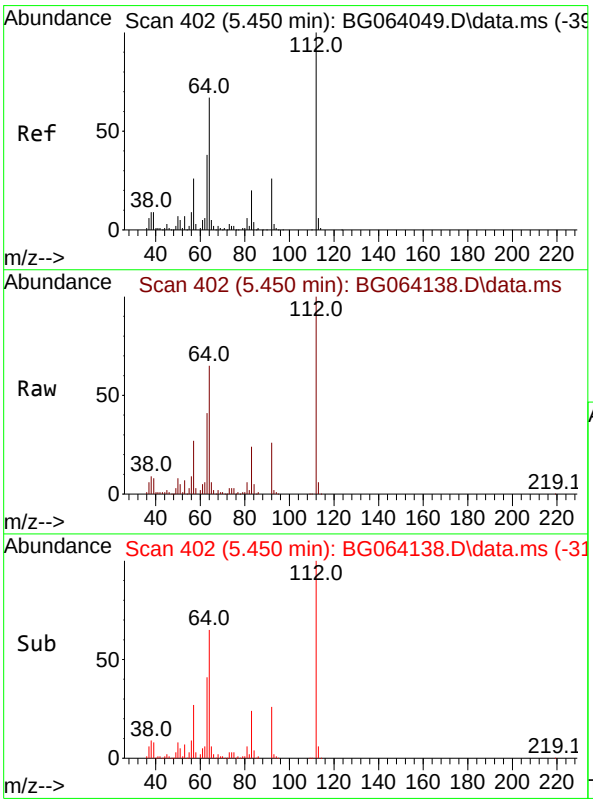
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.859 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:152 Resp: 32858

Ion	Ratio	Lower	Upper
152	100		
150	154.8	129.2	193.8
115	68.8	63.0	94.6

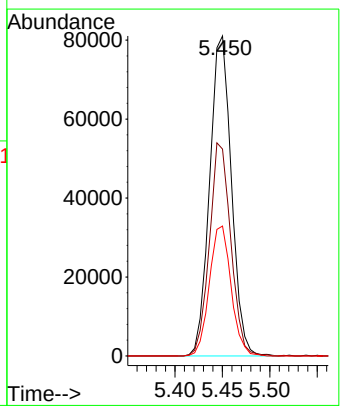


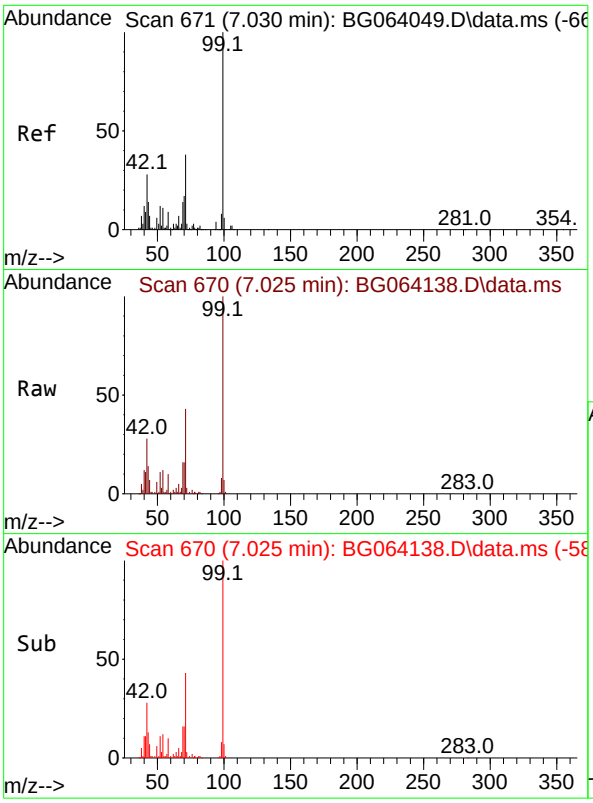


#5
2-Fluorophenol
Concen: 61.514 ng
RT: 5.450 min Scan# 402
Delta R.T. 0.000 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:112 Resp: 129446

Ion	Ratio	Lower	Upper
112	100		
64	64.7	53.7	80.5
63	40.6	30.2	45.4



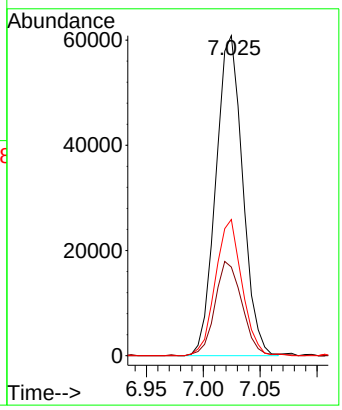


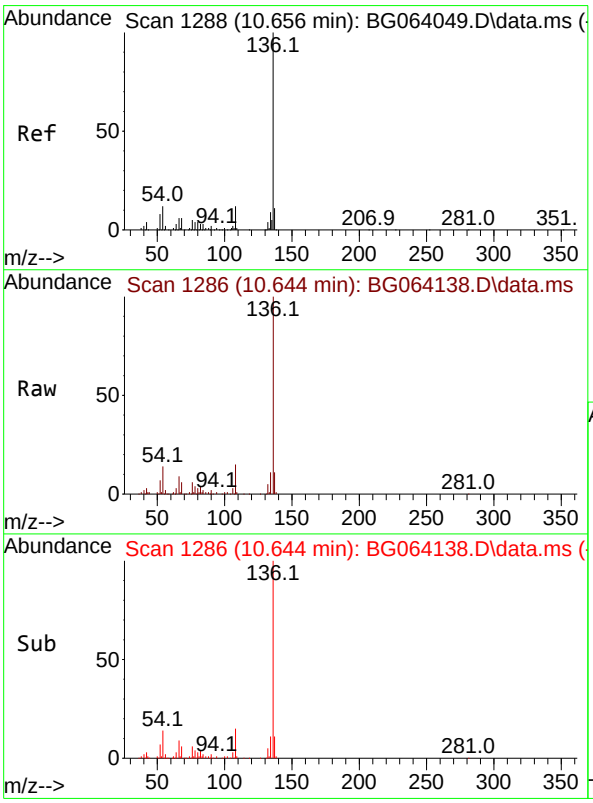
#7
Phenol-d6
Concen: 34.857 ng
RT: 7.025 min Scan# 6
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion: 99 Resp: 99786

Ion	Ratio	Lower	Upper
99	100		
42	27.7	22.7	34.1
71	42.6	30.6	46.0

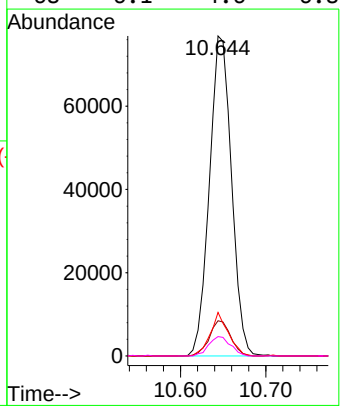


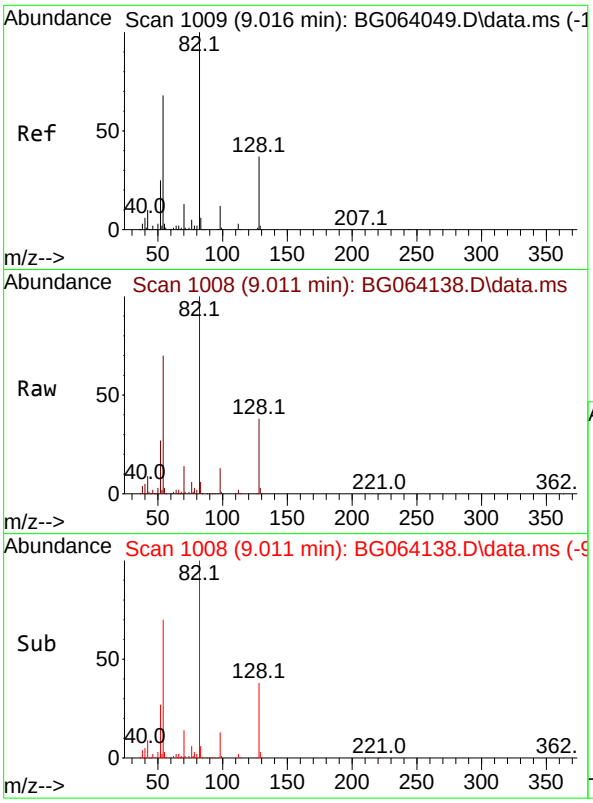


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.644 min Scan# 1286
Delta R.T. -0.012 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:136 Resp: 138416

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	13.6	9.9	14.9
68	6.1	4.6	6.8



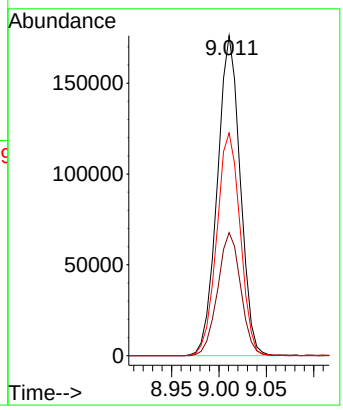


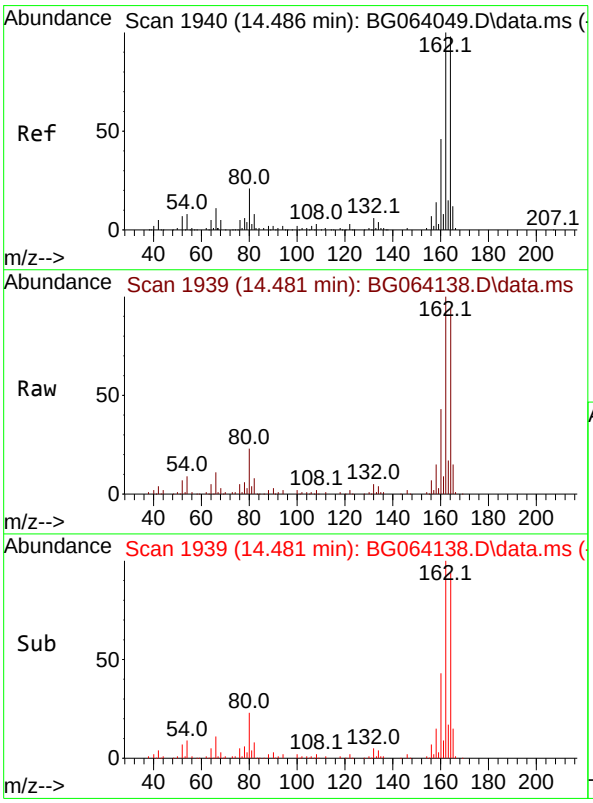
#23
Nitrobenzene-d5
Concen: 118.021 ng
RT: 9.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion: 82 Resp: 295610

Ion	Ratio	Lower	Upper
82	100		
128	38.5	30.0	45.0
54	69.6	54.7	82.1

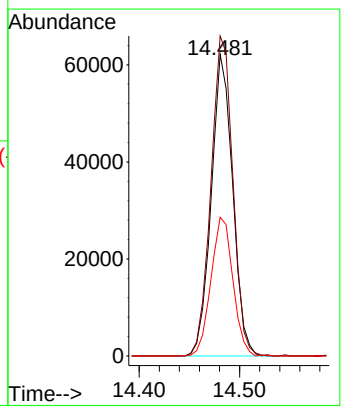


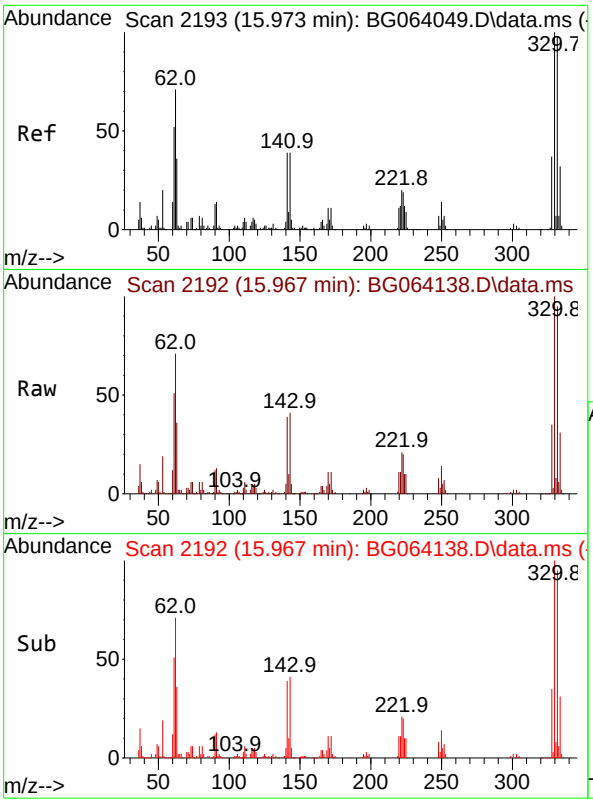


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.481 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:164 Resp: 91944

Ion	Ratio	Lower	Upper
164	100		
162	106.0	81.4	122.0
160	46.0	37.0	55.6



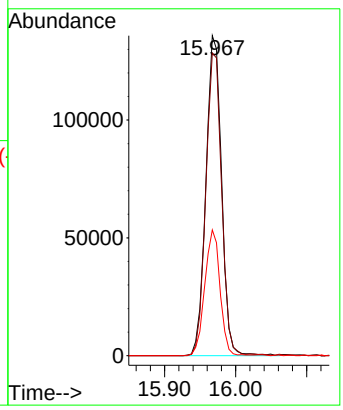


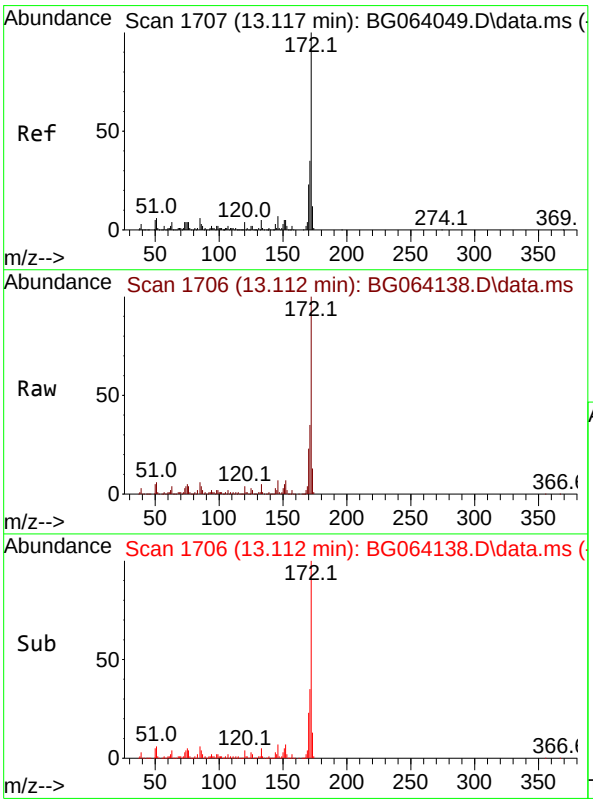
#42
2,4,6-Tribromophenol
Concen: 204.154 ng
RT: 15.967 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:330 Resp: 208650

Ion	Ratio	Lower	Upper
330	100		
332	95.0	76.7	115.1
141	38.3	29.7	44.5

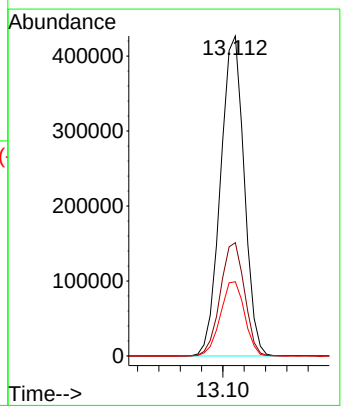


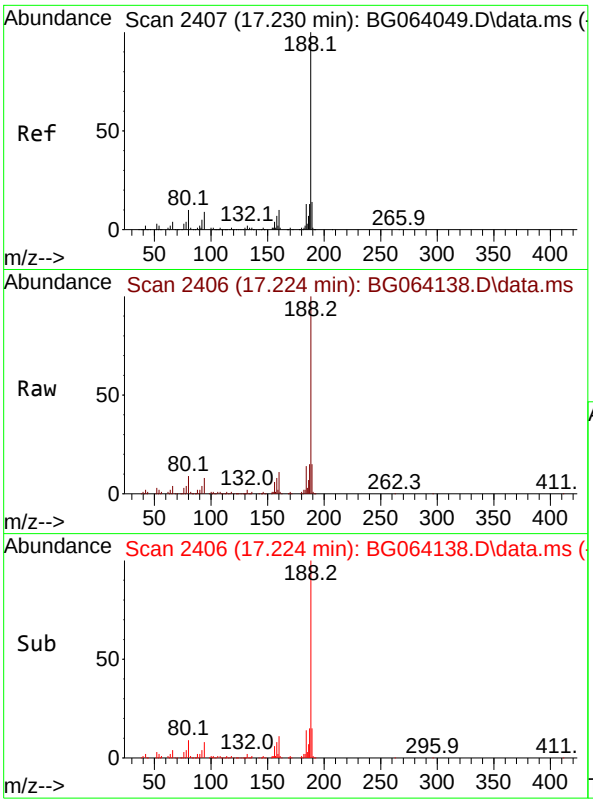


#45
2-Fluorobiphenyl
Concen: 108.540 ng
RT: 13.112 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:172 Resp: 657467

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.0	42.0
170	23.2	18.7	28.1



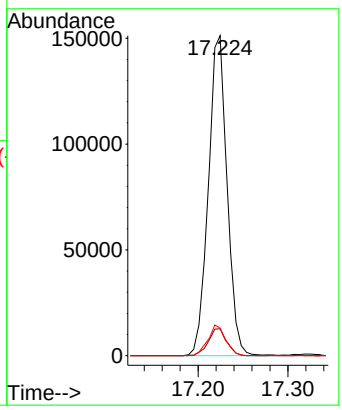


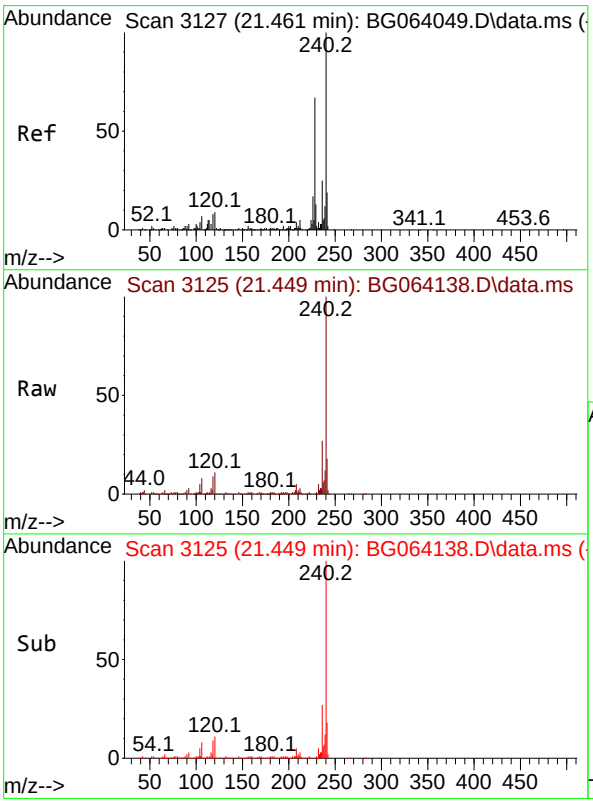
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:188 Resp: 218786

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.9	10.3
80	8.6	8.1	12.1

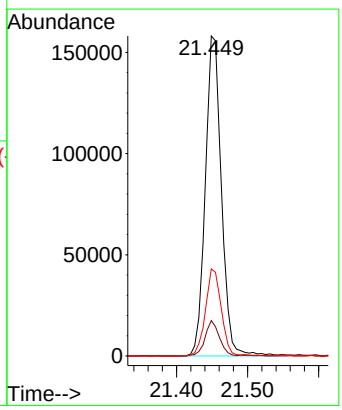


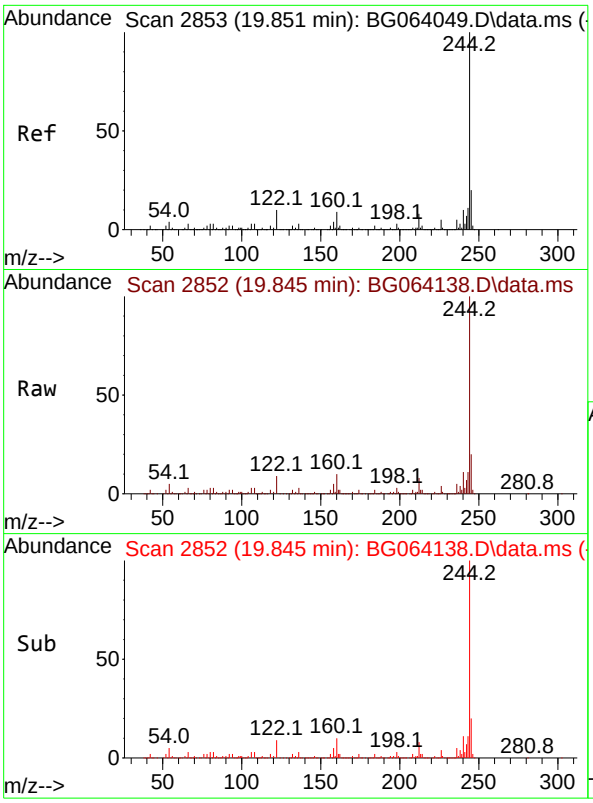


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.449 min Scan# 3125
Delta R.T. -0.012 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:240 Resp: 249872

Ion	Ratio	Lower	Upper
240	100		
120	11.0	7.2	10.8#
236	27.2	20.2	30.2



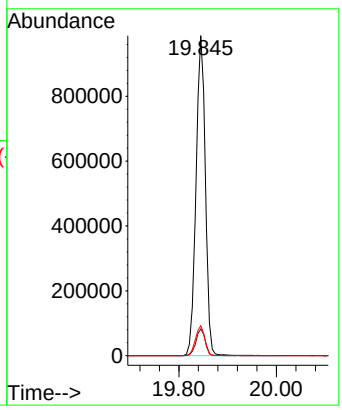


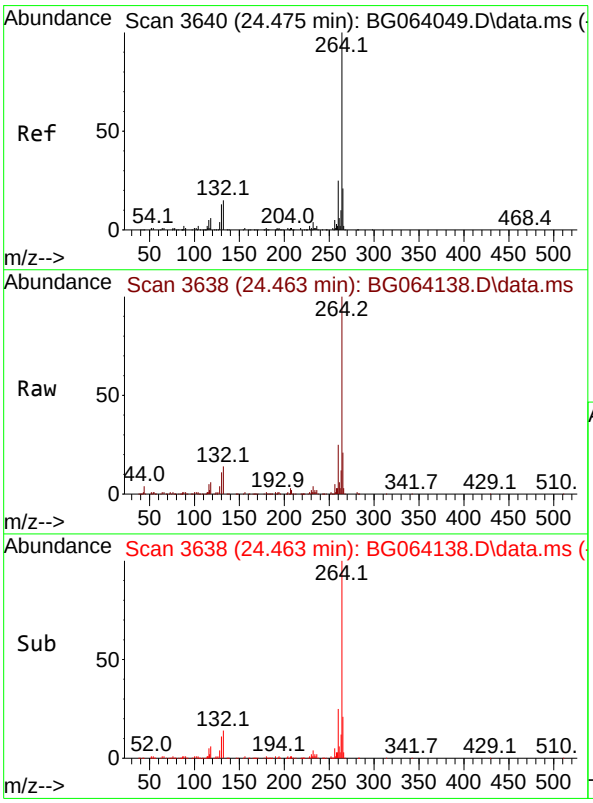
#79
Terphenyl-d14
Concen: 106.993 ng
RT: 19.845 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-002-01

Tgt Ion:244 Resp: 1322188

Ion	Ratio	Lower	Upper
244	100		
212	8.4	6.2	9.4
122	9.4	8.0	12.0

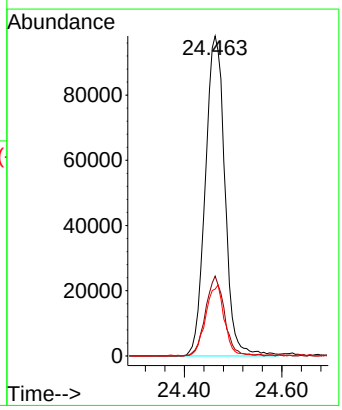




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.463 min Scan# 3638
Delta R.T. -0.012 min
Lab File: BG064138.D
Acq: 1 Apr 2025 17:04

Tgt Ion:264 Resp: 272575

Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.6	29.4
265	20.9	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-12	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064139.D	1	03/31/25 11:00	04/01/25 17:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	10.1		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-12	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064139.D	1	03/31/25 11:00	04/01/25 17:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-003-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-12	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064139.D	1	03/31/25 11:00	04/01/25 17:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.3		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	34.6		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	121		49 - 133	121%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		52 - 132	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	206		44 - 137	137%	SPK: 150
1718-51-0	Terphenyl-d14	110		48 - 125	110%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34100	7.86			
1146-65-2	Naphthalene-d8	141000	10.645			
15067-26-2	Acenaphthene-d10	95400	14.482			
1517-22-2	Phenanthrene-d10	229000	17.22			
1719-03-5	Chrysene-d12	252000	21.45			
1520-96-3	Perylene-d12	272000	24.464			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064139.D
Acq On : 1 Apr 2025 17:45
Operator : RC/JU
Sample : Q1664-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Apr 01 19:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

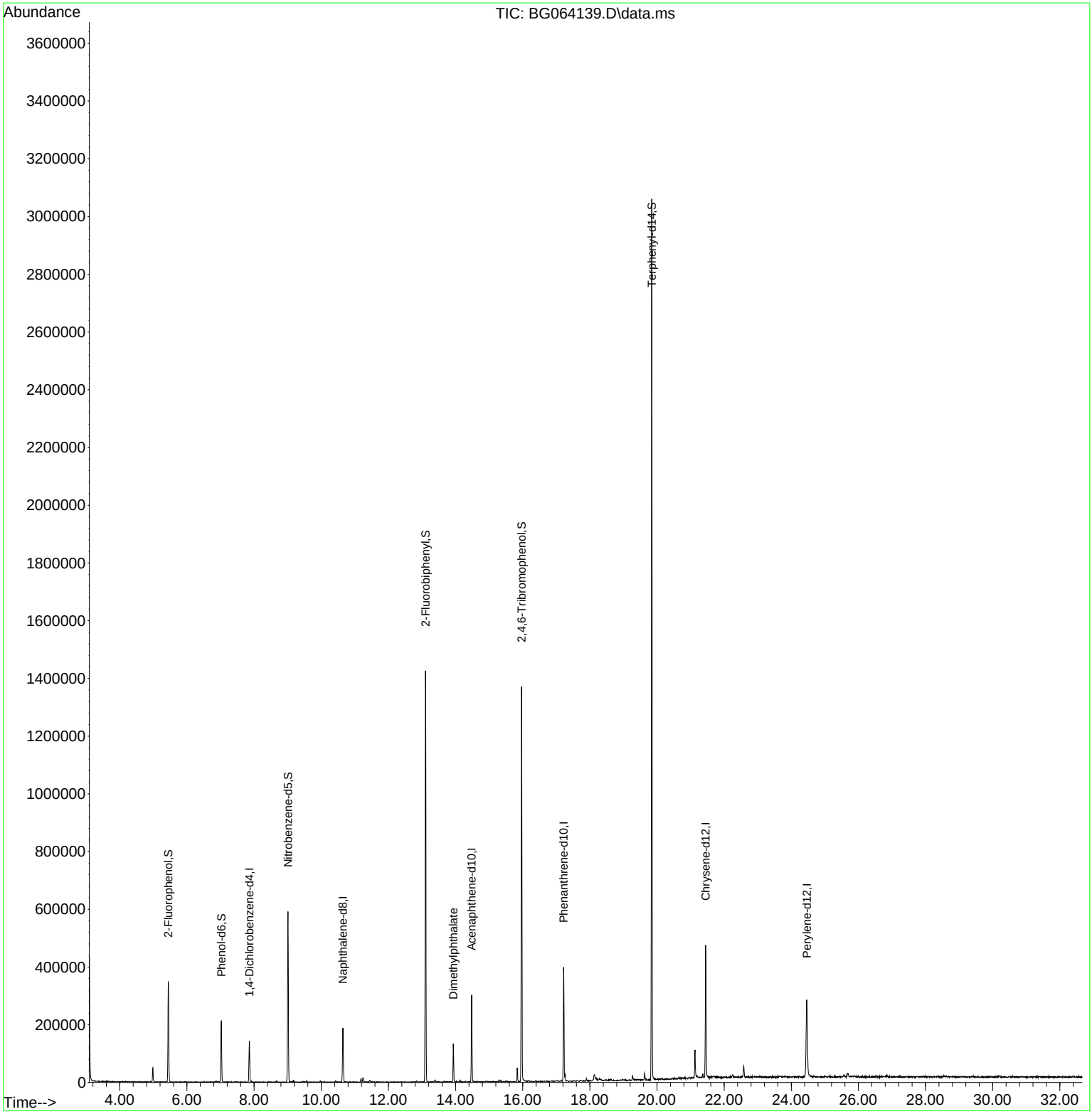
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.860	152	34101	20.000	ng	0.00
21) Naphthalene-d8	10.645	136	141057	20.000	ng	-0.01
39) Acenaphthene-d10	14.482	164	95411	20.000	ng	0.00
64) Phenanthrene-d10	17.220	188	229133	20.000	ng	-0.01
76) Chrysene-d12	21.450	240	251581	20.000	ng	-0.01
86) Perylene-d12	24.464	264	271745	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	133858	61.292	ng	0.00
7) Phenol-d6	7.026	99	102833	34.612	ng	0.00
23) Nitrobenzene-d5	9.012	82	308859	121.002	ng	0.00
42) 2,4,6-Tribromophenol	15.968	330	218583	206.101	ng	0.00
45) 2-Fluorobiphenyl	13.107	172	687821	109.425	ng	-0.01
79) Terphenyl-d14	19.846	244	1367884	109.939	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	13.935	163	71179	10.106	ng	99

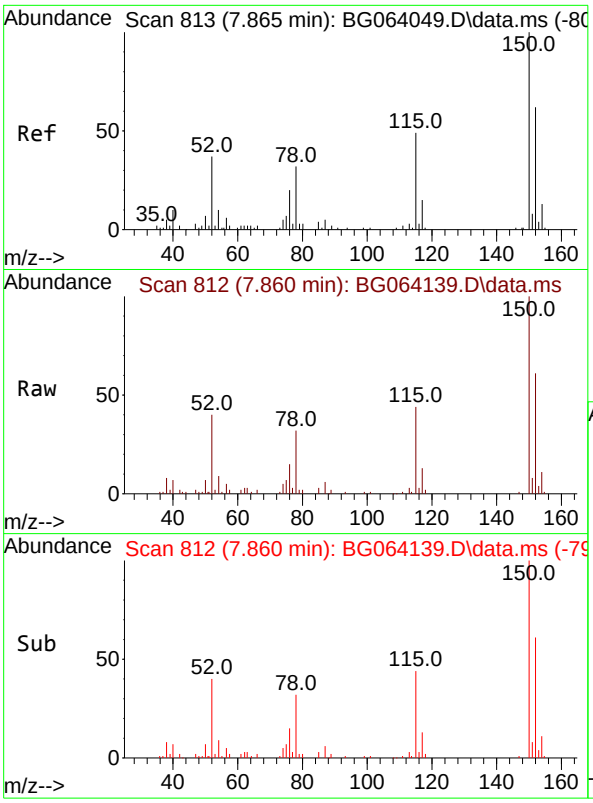
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064139.D
Acq On : 1 Apr 2025 17:45
Operator : RC/JU
Sample : Q1664-12
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Quant Time: Apr 01 19:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



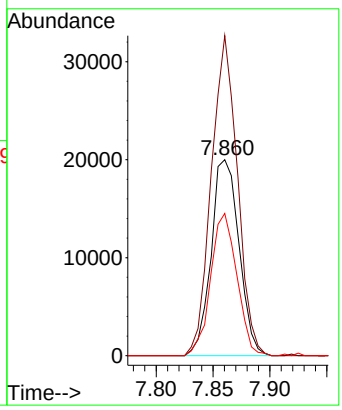


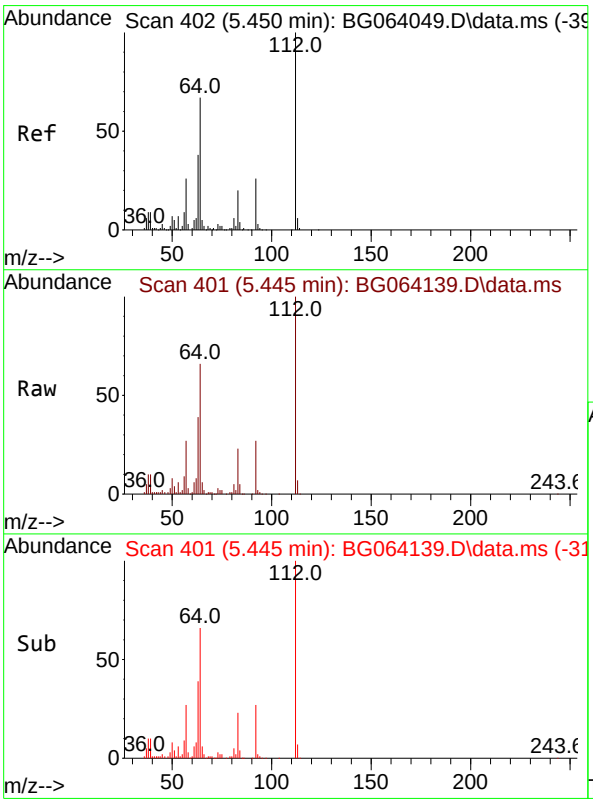
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.860 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:152 Resp: 34101

Ion	Ratio	Lower	Upper
152	100		
150	163.2	129.2	193.8
115	72.5	63.0	94.6

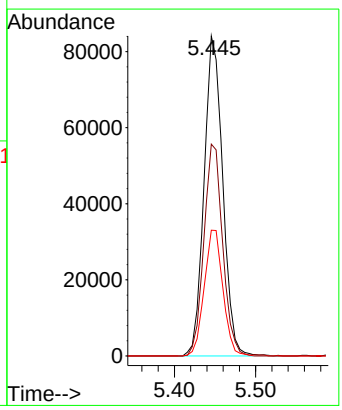


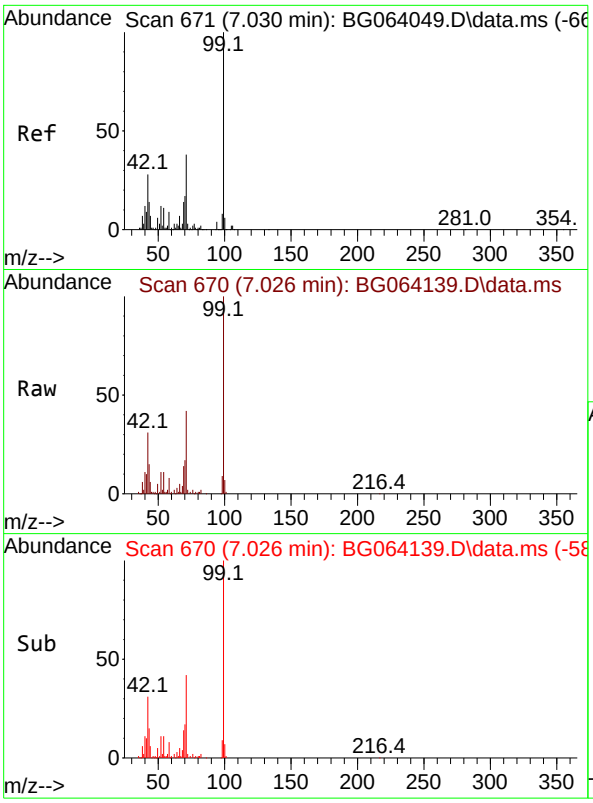


#5
2-Fluorophenol
Concen: 61.292 ng
RT: 5.445 min Scan# 401
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:112 Resp: 133858

Ion	Ratio	Lower	Upper
112	100		
64	66.2	53.7	80.5
63	39.3	30.2	45.4



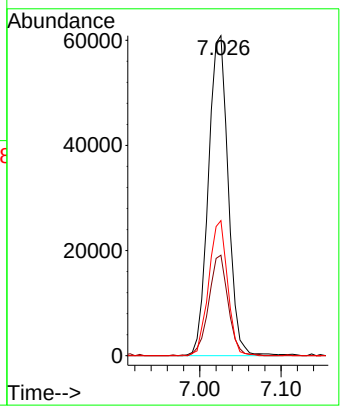


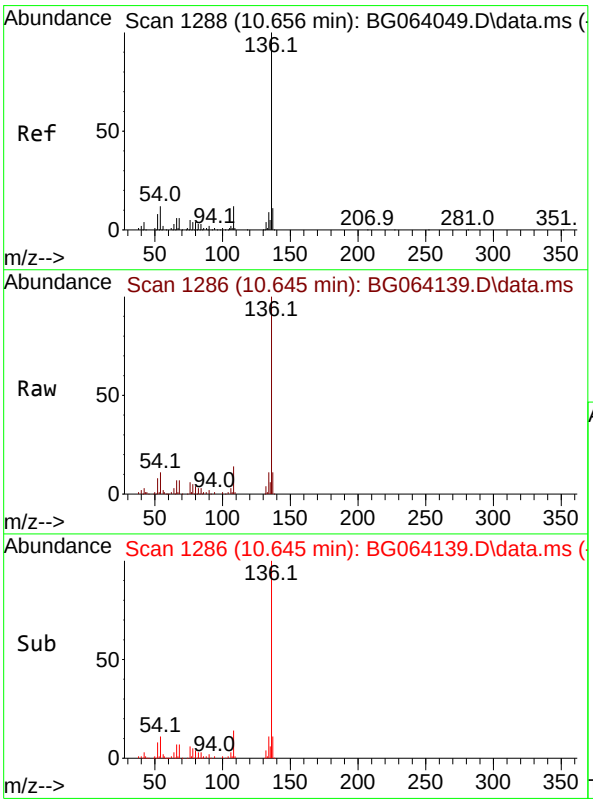
#7
Phenol-d6
Concen: 34.612 ng
RT: 7.026 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion: 99 Resp: 102833

Ion	Ratio	Lower	Upper
99	100		
42	31.4	22.7	34.1
71	42.2	30.6	46.0

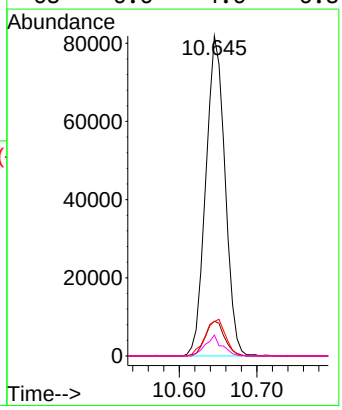


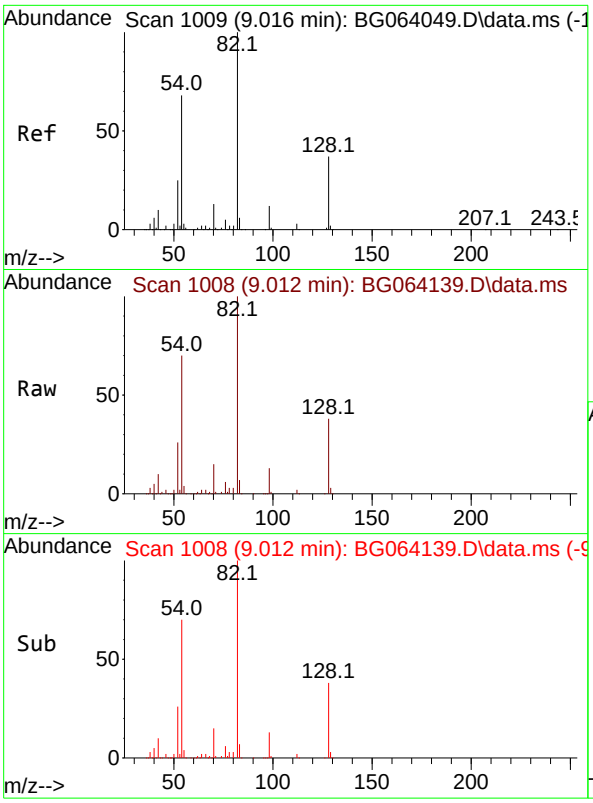


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.645 min Scan# 1286
Delta R.T. -0.011 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:136 Resp: 141057

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	10.8	9.9	14.9
68	6.6	4.6	6.8



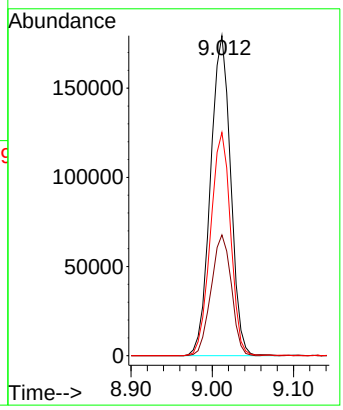


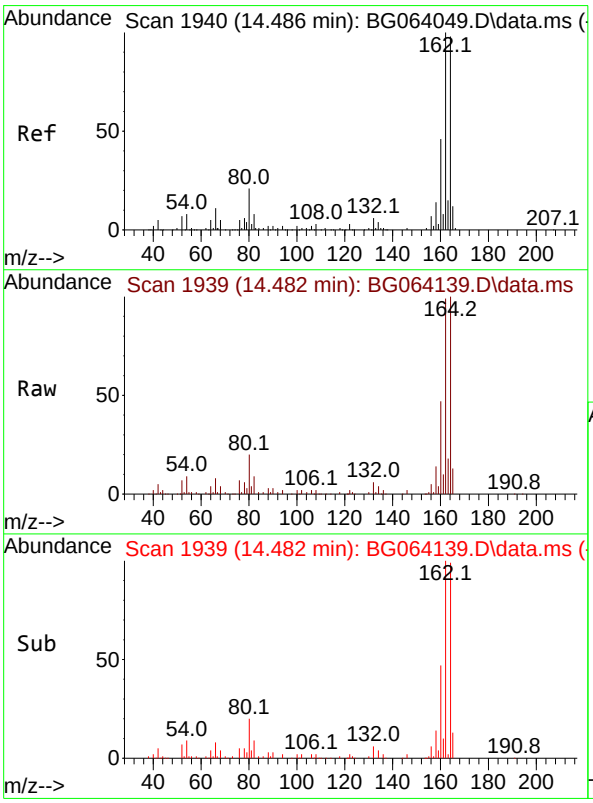
#23
Nitrobenzene-d5
Concen: 121.002 ng
RT: 9.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion: 82 Resp: 308859

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.0	45.0
54	69.7	54.7	82.1

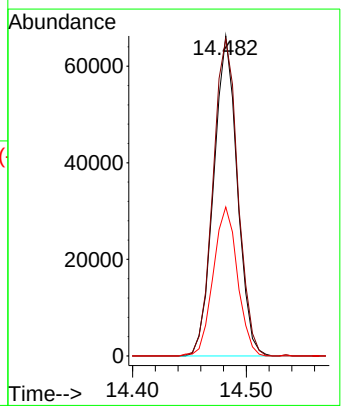


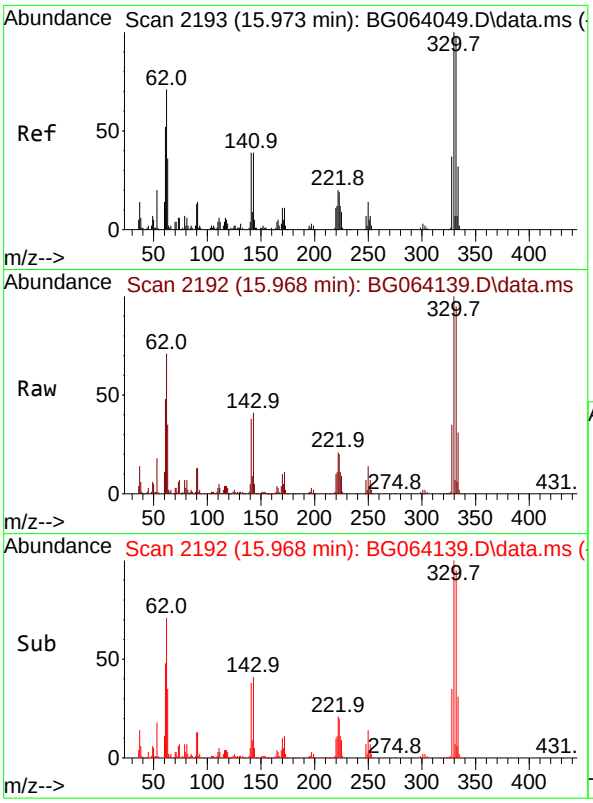


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.482 min Scan# 1939
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:164 Resp: 95411

Ion	Ratio	Lower	Upper
164	100		
162	99.1	81.4	122.0
160	46.5	37.0	55.6



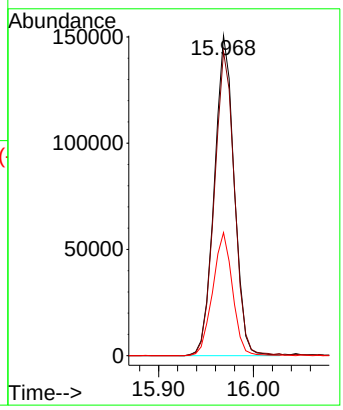


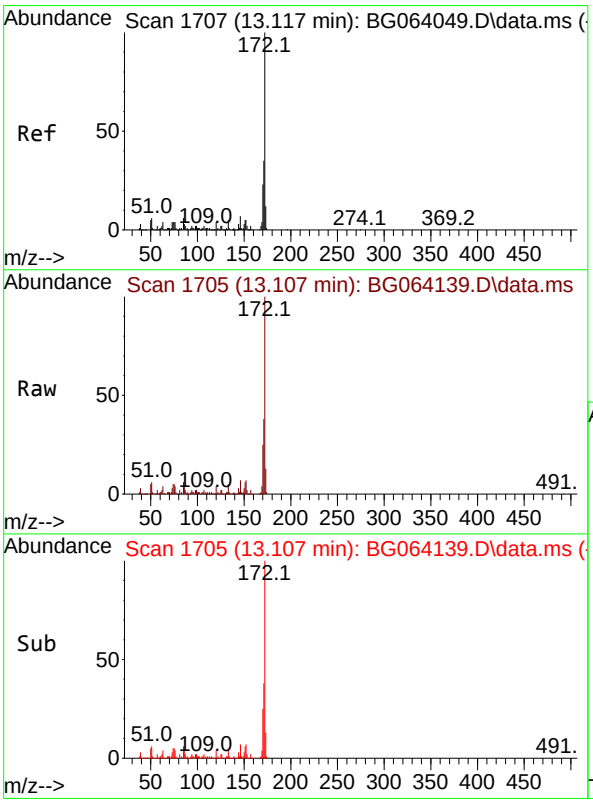
#42
2,4,6-Tribromophenol
Concen: 206.101 ng
RT: 15.968 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:330 Resp: 218583

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.7	115.1
141	38.4	29.7	44.5

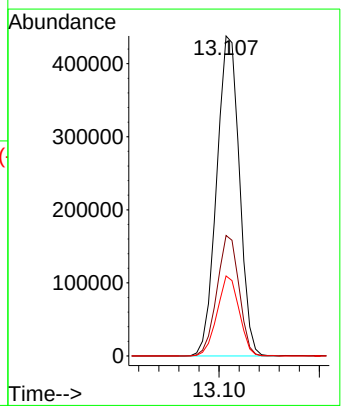


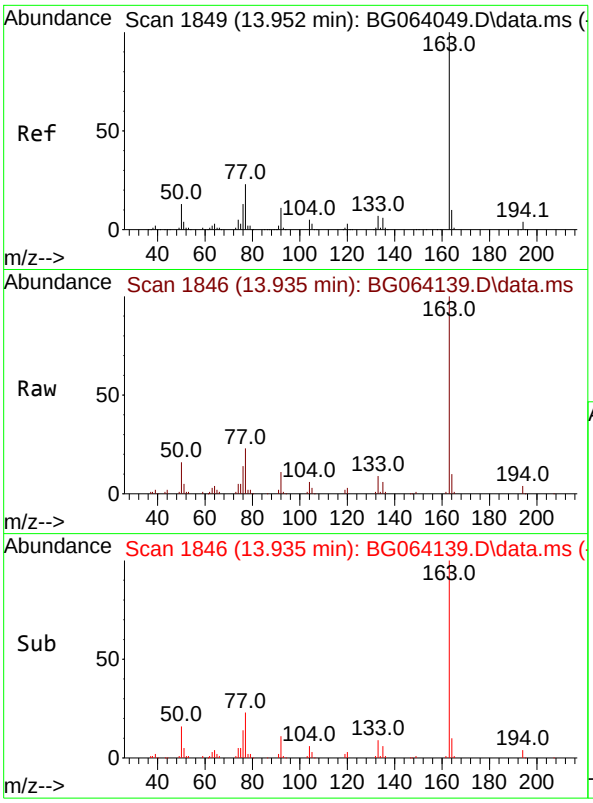


#45
2-Fluorobiphenyl
Concen: 109.425 ng
RT: 13.107 min Scan# 1705
Delta R.T. -0.010 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:172 Resp: 687821

Ion	Ratio	Lower	Upper
172	100		
171	37.6	28.0	42.0
170	25.0	18.7	28.1



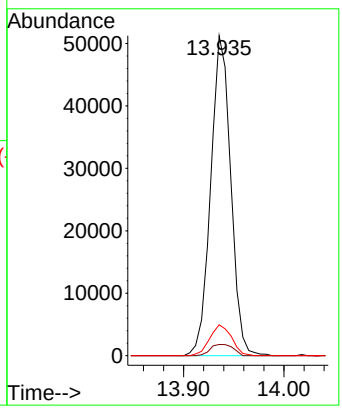


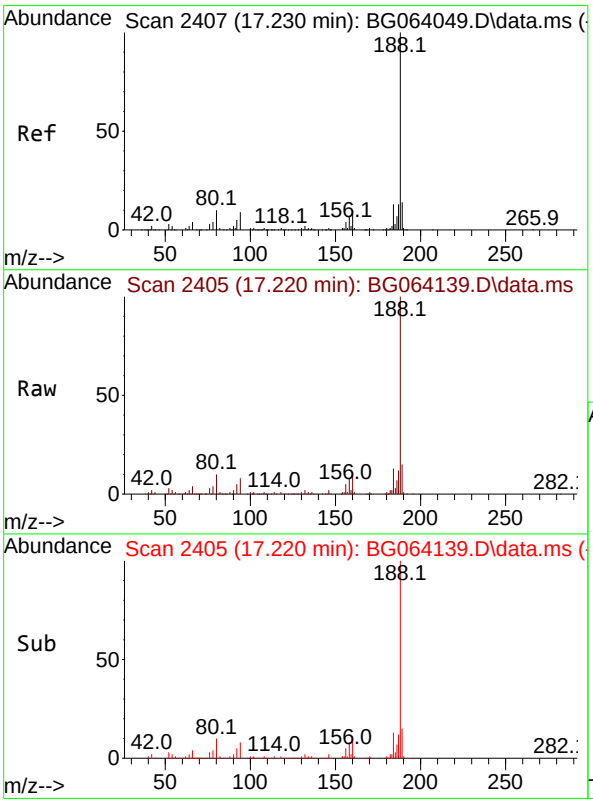
#50
Dimethylphthalate
Concen: 10.106 ng
RT: 13.935 min Scan# 1
Delta R.T. -0.016 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:163 Resp: 71179

Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.8	4.2
164	9.7	8.2	12.2

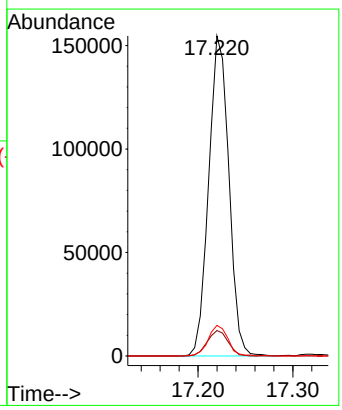


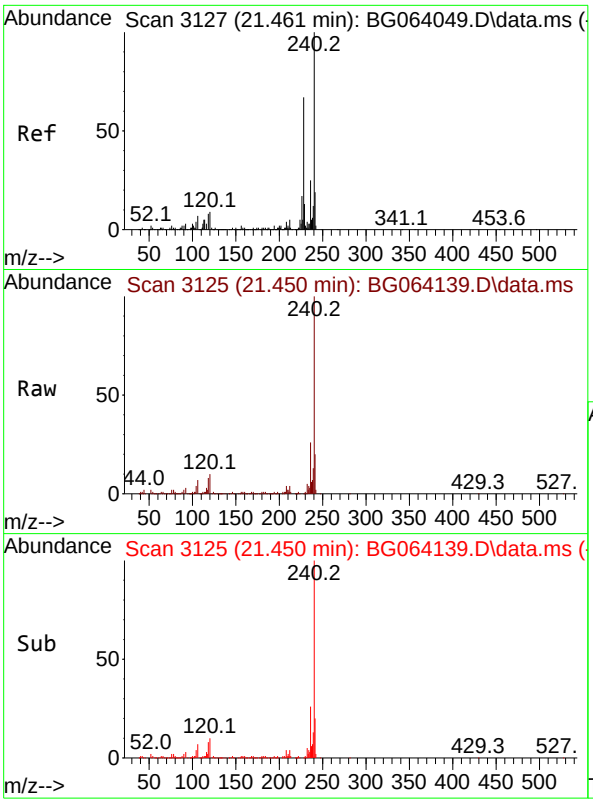


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.220 min Scan# 2405
Delta R.T. -0.010 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:188 Resp: 229133

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.9	10.3
80	9.6	8.1	12.1



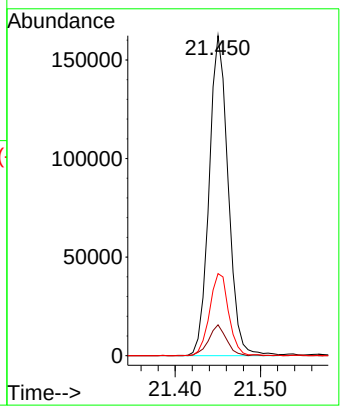


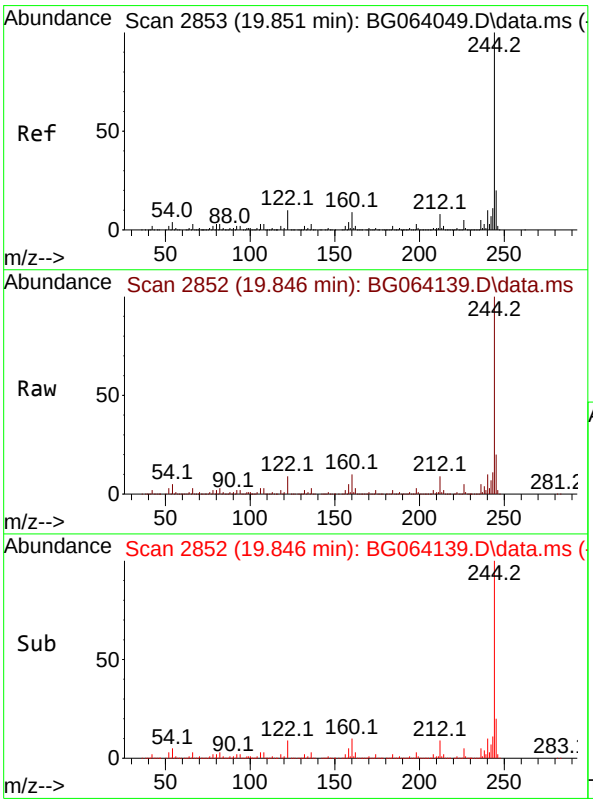
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.450 min Scan# 3
Delta R.T. -0.010 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:240 Resp: 251581

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.2	10.8
236	25.7	20.2	30.2

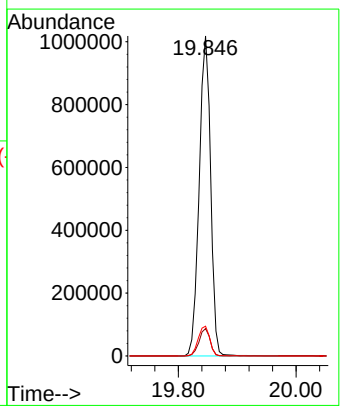


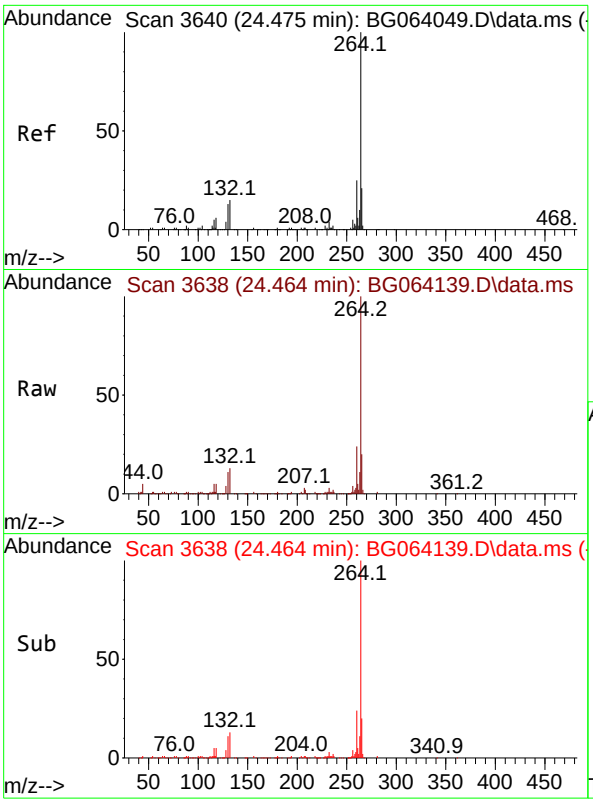


#79
Terphenyl-d14
Concen: 109.939 ng
RT: 19.846 min Scan# 2852
Delta R.T. -0.004 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Tgt Ion:244 Resp: 1367884

Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.4
122	9.3	8.0	12.0



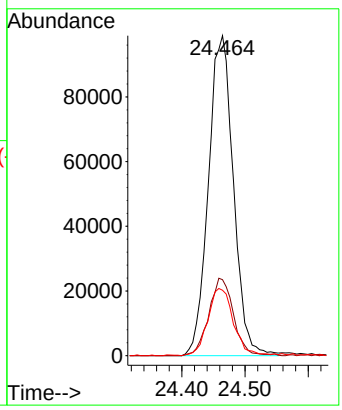


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.464 min Scan# 3
Delta R.T. -0.010 min
Lab File: BG064139.D
Acq: 1 Apr 2025 17:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-003-01

Tgt Ion:264 Resp: 271745

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.6	29.4
265	20.4	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064140.D	1	03/31/25 11:00	04/01/25 18:25	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	8.40		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064140.D	1	03/31/25 11:00	04/01/25 18:25	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-004-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-14	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064140.D	1	03/31/25 11:00	04/01/25 18:25	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	37.8		10 - 139	25%	SPK: 150
13127-88-3	Phenol-d6	22.8		10 - 134	15%	SPK: 150
4165-60-0	Nitrobenzene-d5	111		49 - 133	111%	SPK: 100
321-60-8	2-Fluorobiphenyl	99.5		52 - 132	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		44 - 137	84%	SPK: 150
1718-51-0	Terphenyl-d14	97.4		48 - 125	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35600	7.857			
1146-65-2	Naphthalene-d8	148000	10.648			
15067-26-2	Acenaphthene-d10	101000	14.479			
1517-22-2	Phenanthrene-d10	236000	17.223			
1719-03-5	Chrysene-d12	265000	21.453			
1520-96-3	Perylene-d12	282000	24.462			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064140.D
Acq On : 1 Apr 2025 18:25
Operator : RC/JU
Sample : Q1664-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Apr 02 01:35:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

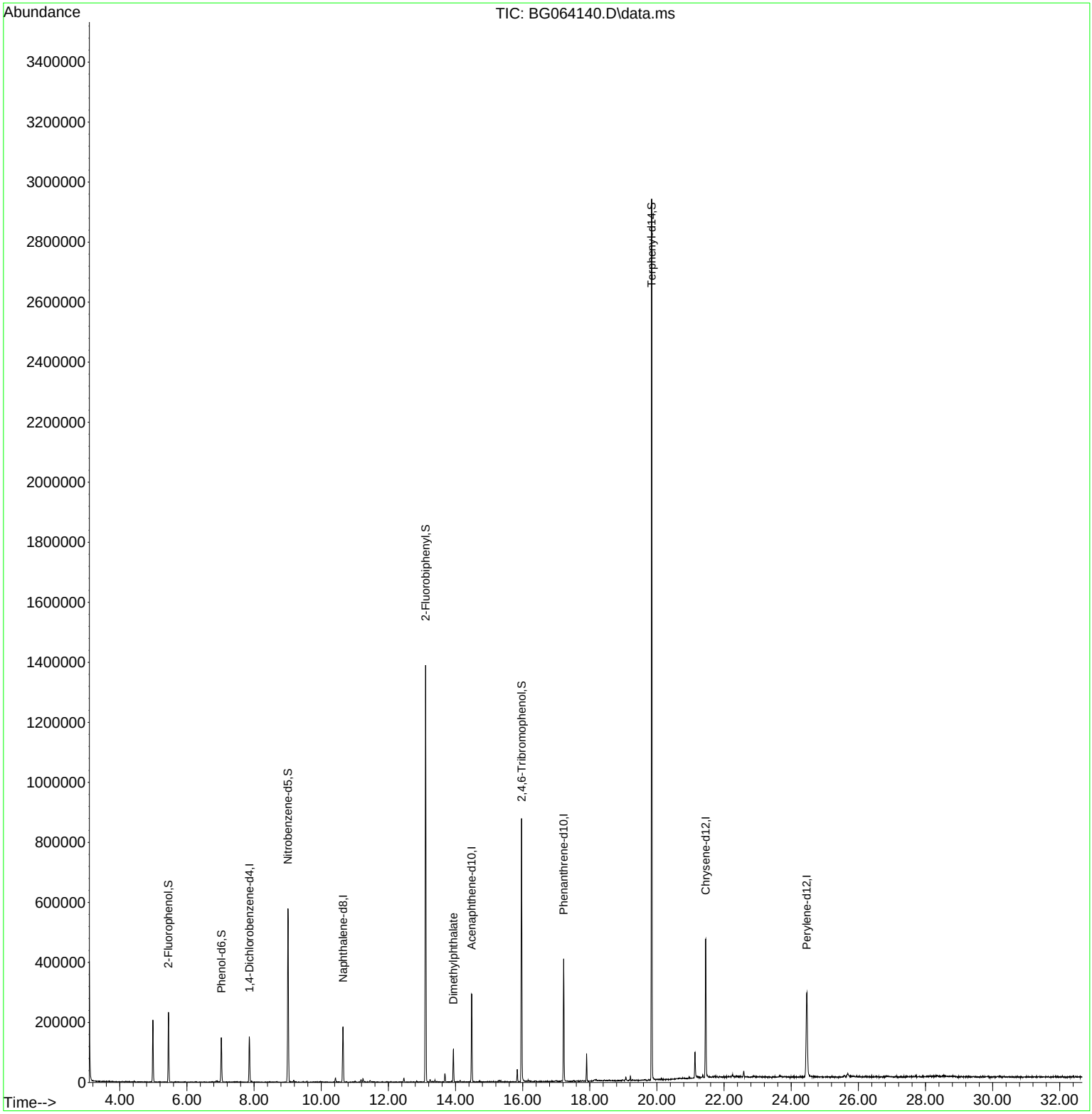
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.857	152	35625	20.000	ng	0.00
21) Naphthalene-d8	10.648	136	147982	20.000	ng	0.00
39) Acenaphthene-d10	14.479	164	101170	20.000	ng	0.00
64) Phenanthrene-d10	17.223	188	235772	20.000	ng	0.00
76) Chrysene-d12	21.453	240	265131	20.000	ng	0.00
86) Perylene-d12	24.462	264	282446	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.449	112	86205	37.784	ng	0.00
7) Phenol-d6	7.023	99	70718	22.784	ng	0.00
23) Nitrobenzene-d5	9.009	82	298509	111.474	ng	0.00
42) 2,4,6-Tribromophenol	15.971	330	142077	126.338	ng	0.00
45) 2-Fluorobiphenyl	13.110	172	663507	99.548	ng	0.00
79) Terphenyl-d14	19.843	244	1277163	97.402	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	13.939	163	62980	8.433	ng	99

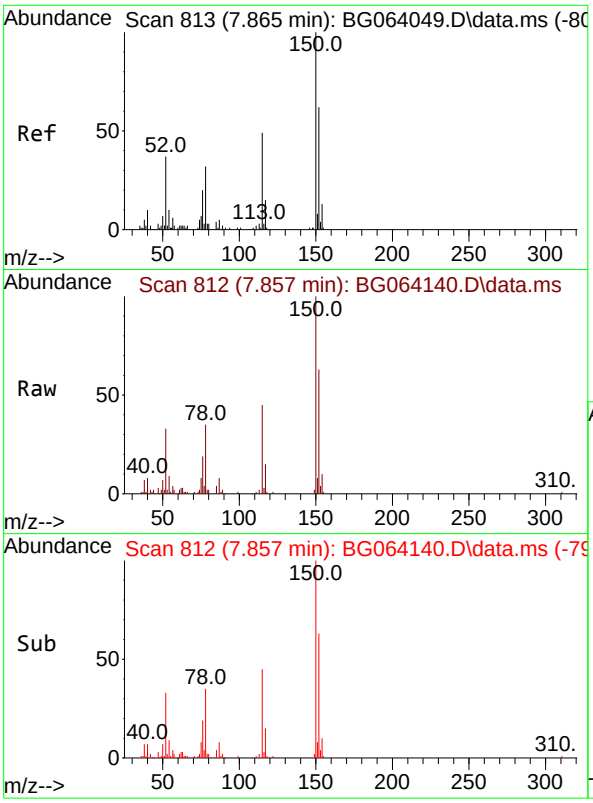
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064140.D
Acq On : 1 Apr 2025 18:25
Operator : RC/JU
Sample : Q1664-14
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Quant Time: Apr 02 01:35:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



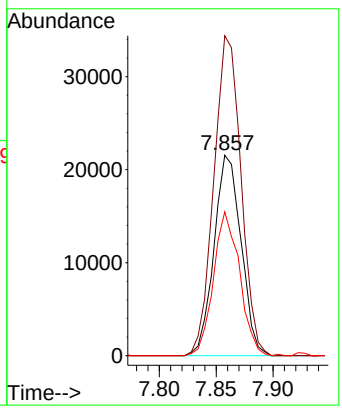


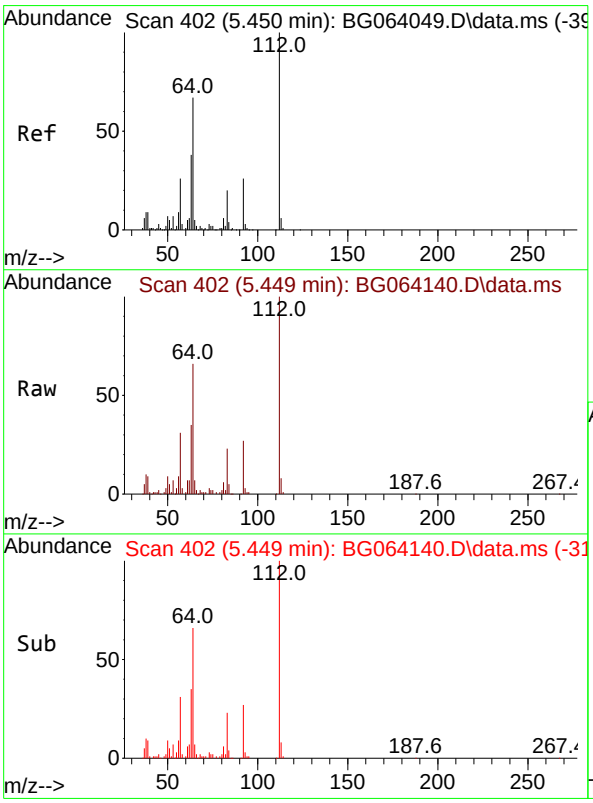
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.857 min Scan# 81
Delta R.T. -0.008 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:152 Resp: 35625

Ion	Ratio	Lower	Upper
152	100		
150	159.6	129.2	193.8
115	71.7	63.0	94.6

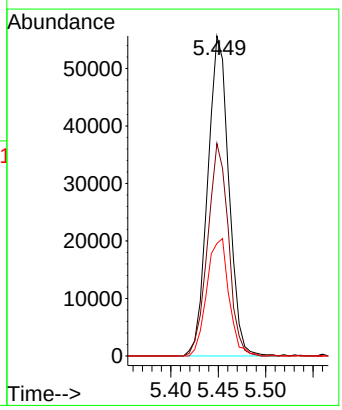


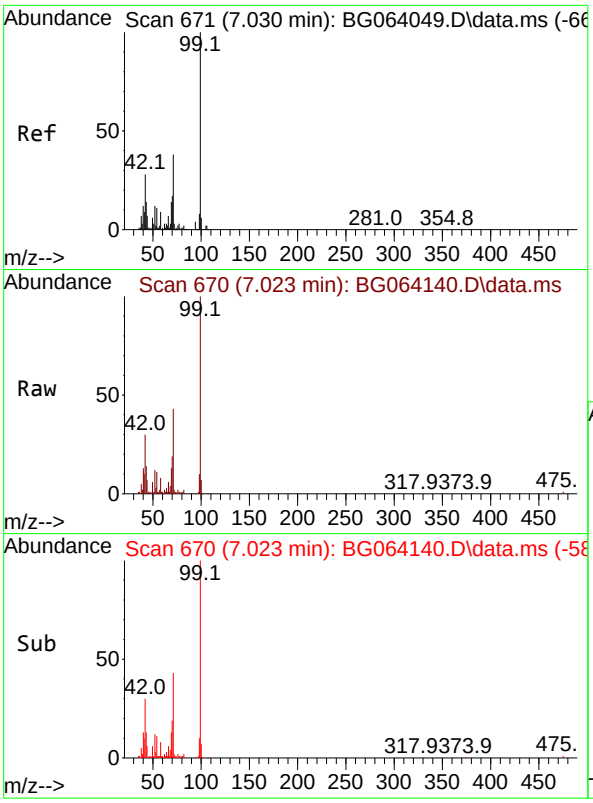


#5
2-Fluorophenol
Concen: 37.784 ng
RT: 5.449 min Scan# 402
Delta R.T. -0.001 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:112 Resp: 86205

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.7	80.5
63	35.1	30.2	45.4



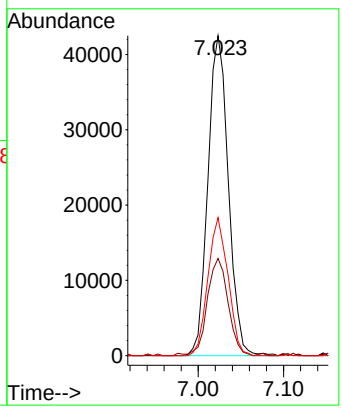


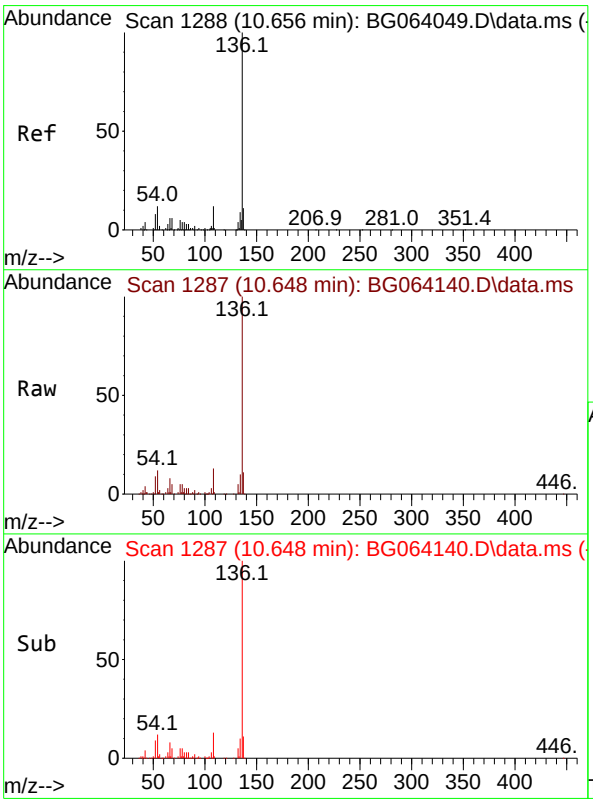
#7
Phenol-d6
Concen: 22.784 ng
RT: 7.023 min Scan# 6
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion: 99 Resp: 70718

Ion	Ratio	Lower	Upper
99	100		
42	30.4	22.7	34.1
71	43.1	30.6	46.0

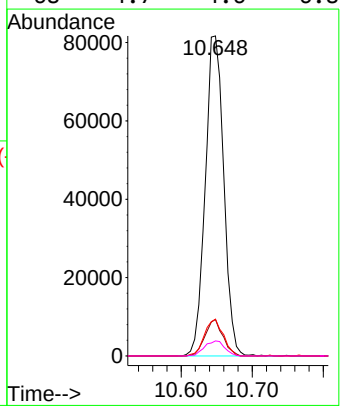


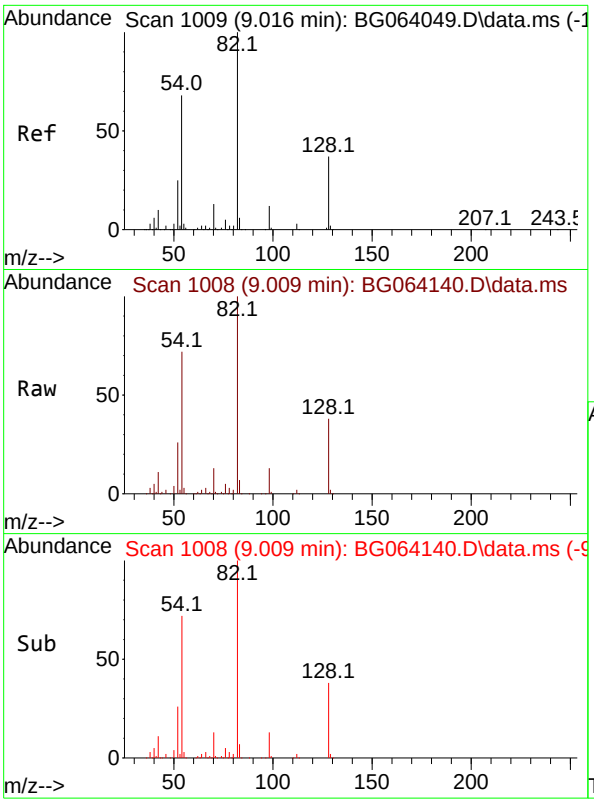


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.648 min Scan# 1287
Delta R.T. -0.008 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:136 Resp: 147982

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.5	12.7
54	11.5	9.9	14.9
68	4.7	4.6	6.8



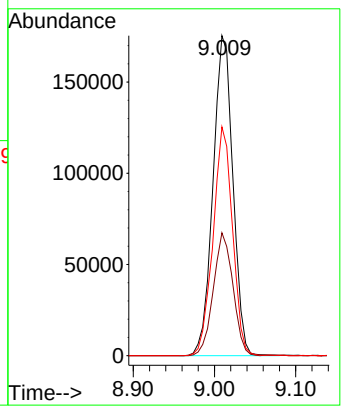


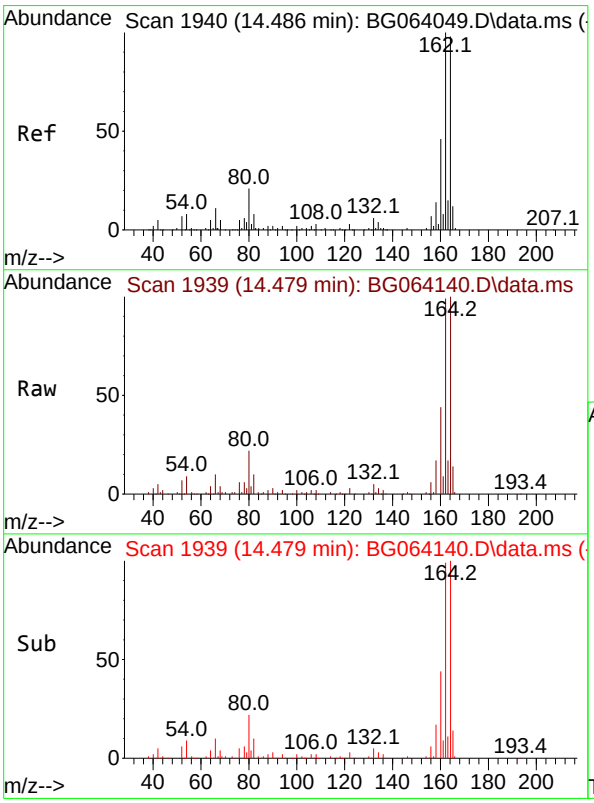
#23
Nitrobenzene-d5
Concen: 111.474 ng
RT: 9.009 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion: 82 Resp: 298509

Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.0	45.0
54	71.5	54.7	82.1

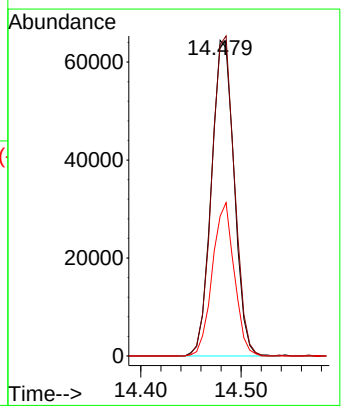


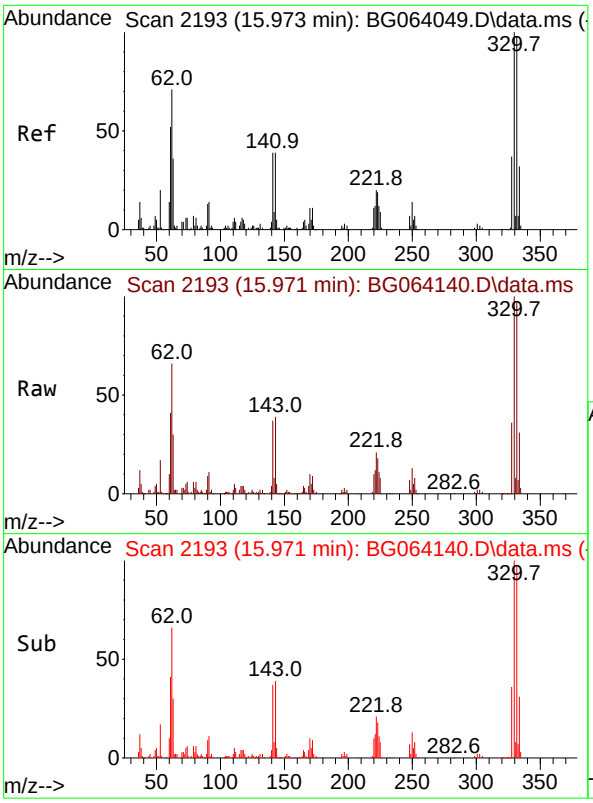


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.479 min Scan# 1939
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:164 Resp: 101170

Ion	Ratio	Lower	Upper
164	100		
162	98.6	81.4	122.0
160	44.3	37.0	55.6



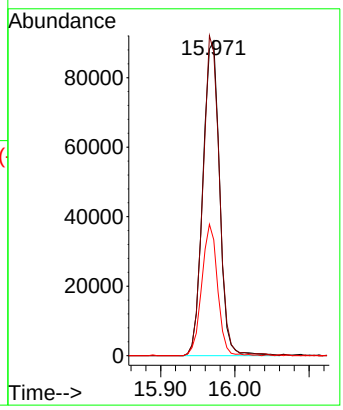


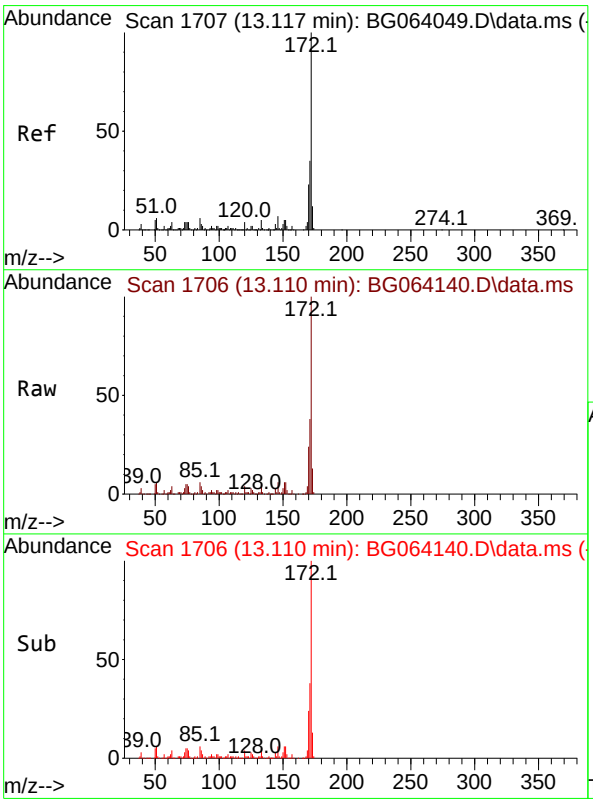
#42
2,4,6-Tribromophenol
Concen: 126.338 ng
RT: 15.971 min Scan# 21
Delta R.T. -0.001 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:330 Resp: 142077

Ion	Ratio	Lower	Upper
330	100		
332	99.4	76.7	115.1
141	39.5	29.7	44.5

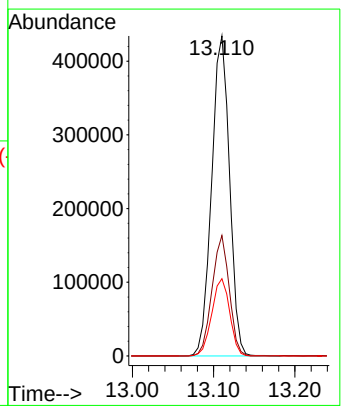


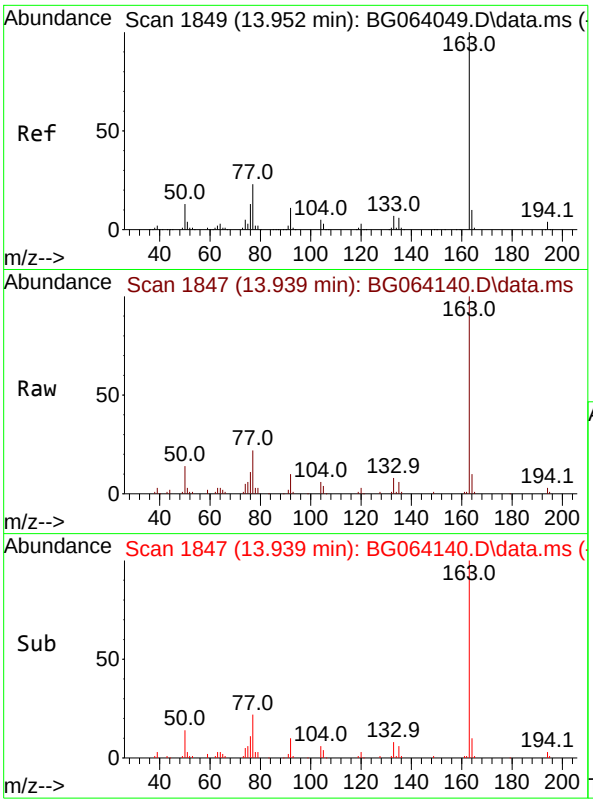


#45
2-Fluorobiphenyl
Concen: 99.548 ng
RT: 13.110 min Scan# 1706
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:172 Resp: 663507

Ion	Ratio	Lower	Upper
172	100		
171	37.6	28.0	42.0
170	24.2	18.7	28.1



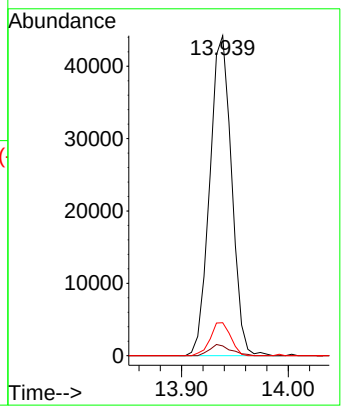


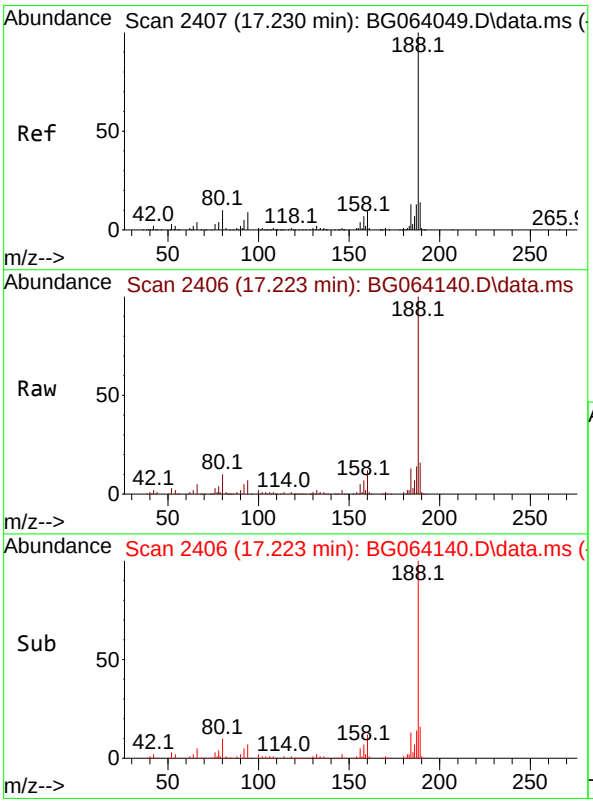
#50
Dimethylphthalate
Concen: 8.433 ng
RT: 13.939 min Scan# 1
Delta R.T. -0.013 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:163 Resp: 62980

Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.8	4.2
164	10.3	8.2	12.2

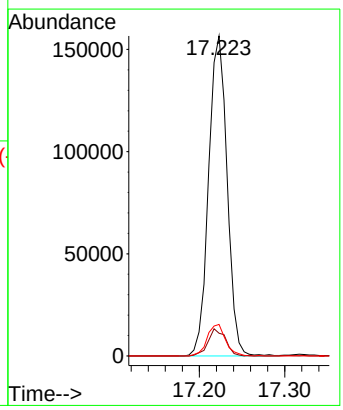


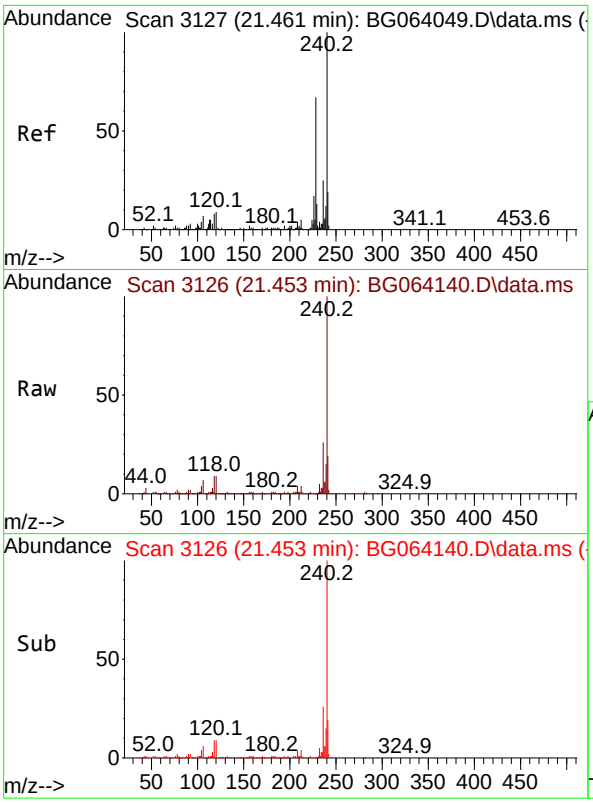


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.223 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:188 Resp: 235772

Ion	Ratio	Lower	Upper
188	100		
94	7.1	6.9	10.3
80	9.9	8.1	12.1



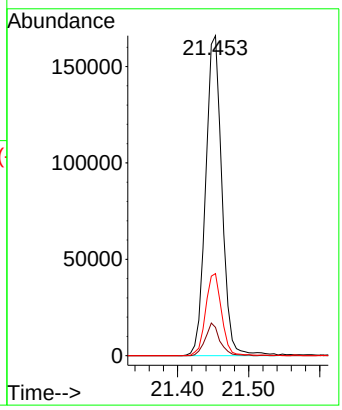


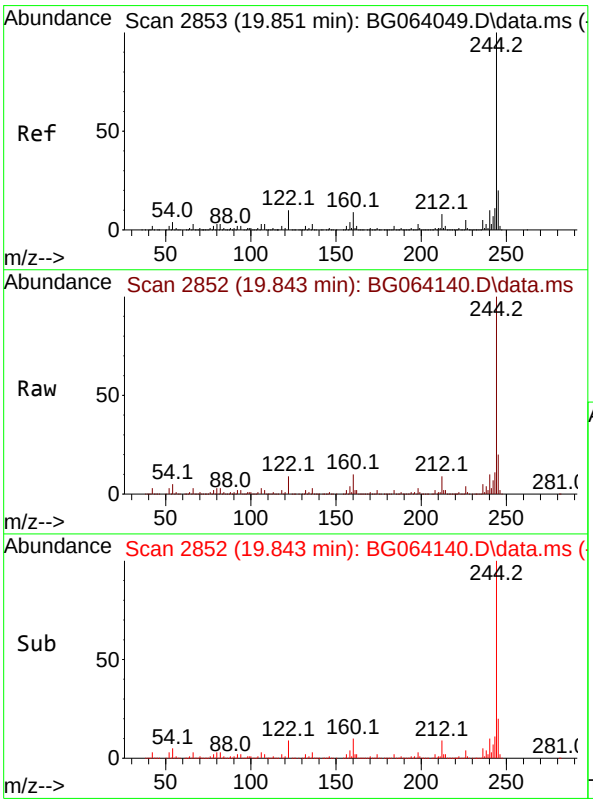
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.453 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:240 Resp: 265131

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.2	10.8
236	25.7	20.2	30.2

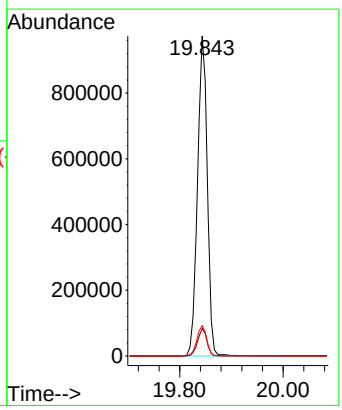


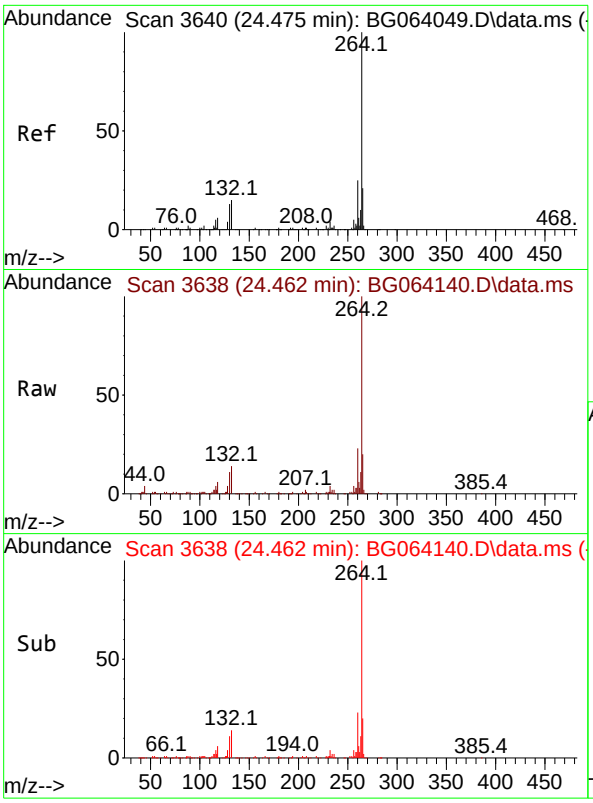


#79
Terphenyl-d14
Concen: 97.402 ng
RT: 19.843 min Scan# 2852
Delta R.T. -0.007 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Tgt Ion:244 Resp: 1277163

Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.4
122	9.5	8.0	12.0



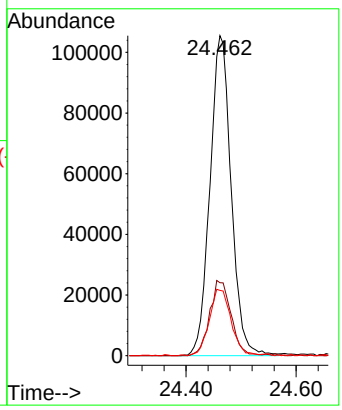


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.462 min Scan# 3
Delta R.T. -0.013 min
Lab File: BG064140.D
Acq: 1 Apr 2025 18:25

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-004-01

Tgt Ion:264 Resp: 282446

Ion	Ratio	Lower	Upper
264	100		
260	22.8	19.6	29.4
265	20.4	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-16	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064141.D	1	03/31/25 11:00	04/01/25 19:05	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	11.5		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-16	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064141.D	1	03/31/25 11:00	04/01/25 19:05	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-005-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-16	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064141.D	1	03/31/25 11:00	04/01/25 19:05	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	64.7		10 - 139	43%	SPK: 150
13127-88-3	Phenol-d6	36.2		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	121		49 - 133	121%	SPK: 100
321-60-8	2-Fluorobiphenyl	112		52 - 132	112%	SPK: 100
118-79-6	2,4,6-Tribromophenol	207	*	44 - 137	138%	SPK: 150
1718-51-0	Terphenyl-d14	106		48 - 125	106%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32900	7.862			
1146-65-2	Naphthalene-d8	140000	10.647			
15067-26-2	Acenaphthene-d10	95100	14.484			
1517-22-2	Phenanthrene-d10	227000	17.222			
1719-03-5	Chrysene-d12	259000	21.452			
1520-96-3	Perylene-d12	276000	24.466			

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064141.D
Acq On : 1 Apr 2025 19:05
Operator : RC/JU
Sample : Q1664-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Apr 02 01:35:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

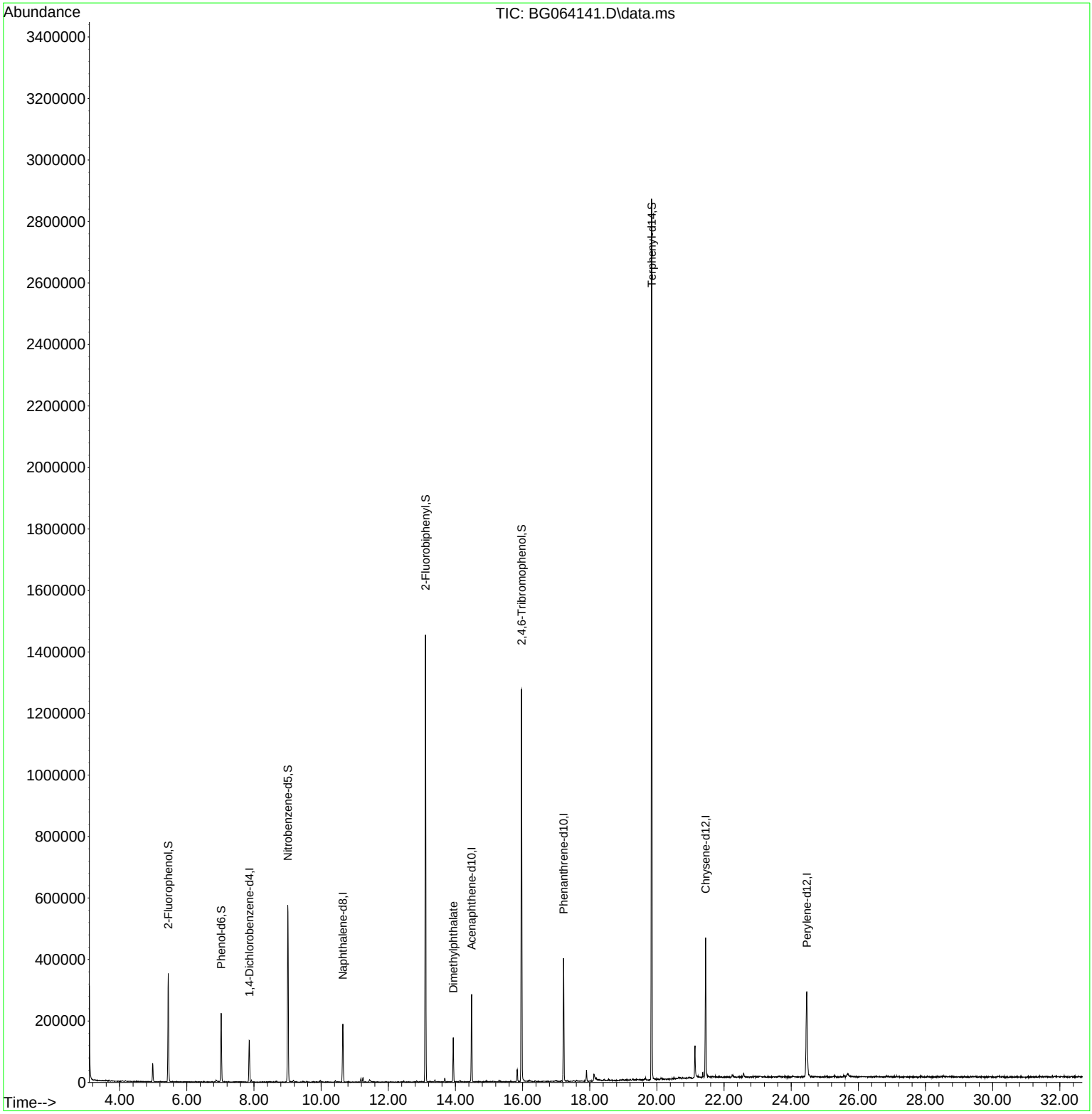
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.862	152	32945	20.000	ng	0.00
21) Naphthalene-d8	10.647	136	139968	20.000	ng	0.00
39) Acenaphthene-d10	14.484	164	95119	20.000	ng	0.00
64) Phenanthrene-d10	17.222	188	227404	20.000	ng	0.00
76) Chrysene-d12	21.452	240	259176	20.000	ng	0.00
86) Perylene-d12	24.466	264	276065	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.448	112	136429	64.661	ng	0.00
7) Phenol-d6	7.022	99	103872	36.189	ng	0.00
23) Nitrobenzene-d5	9.008	82	306214	120.899	ng	0.00
42) 2,4,6-Tribromophenol	15.971	330	218554	206.707	ng	0.00
45) 2-Fluorobiphenyl	13.109	172	700349	111.760	ng	0.00
79) Terphenyl-d14	19.848	244	1353612	105.604	ng	0.00
Target Compounds						Qvalue
50) Dimethylphthalate	13.938	163	80935	11.527	ng	97

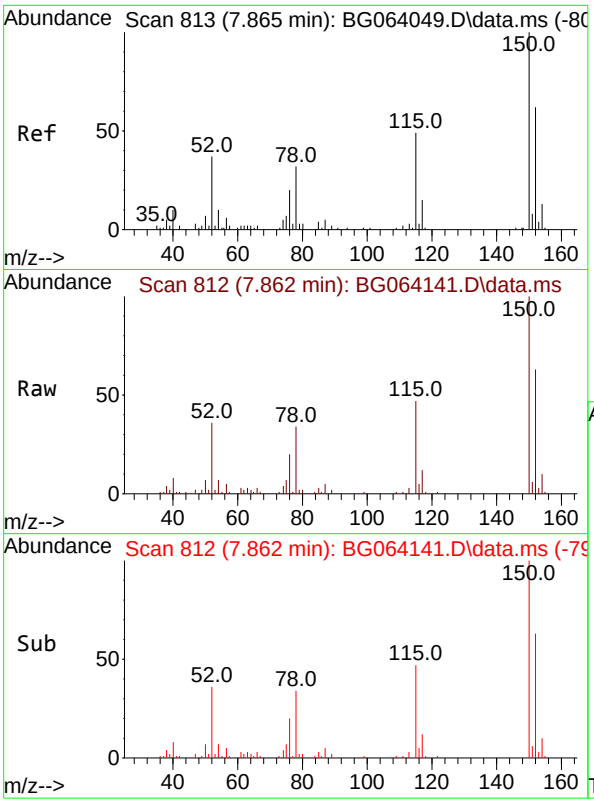
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064141.D
Acq On : 1 Apr 2025 19:05
Operator : RC/JU
Sample : Q1664-16
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Quant Time: Apr 02 01:35:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



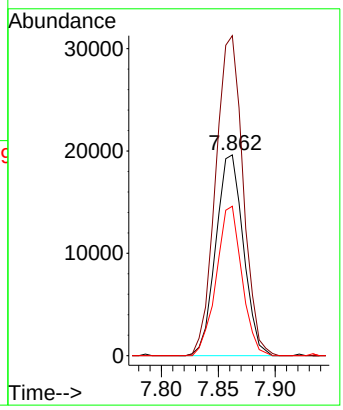


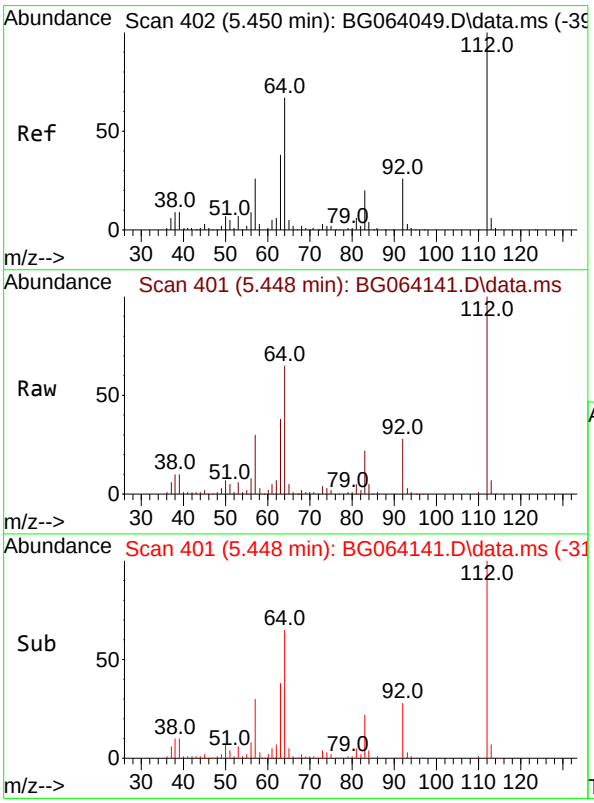
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.862 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:152 Resp: 32945

Ion	Ratio	Lower	Upper
152	100		
150	159.4	129.2	193.8
115	74.4	63.0	94.6

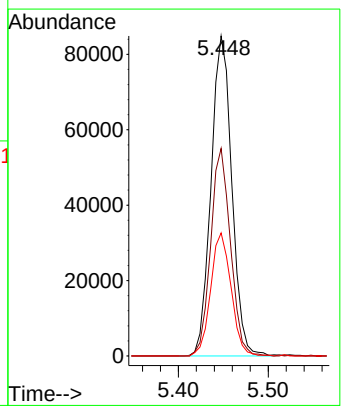


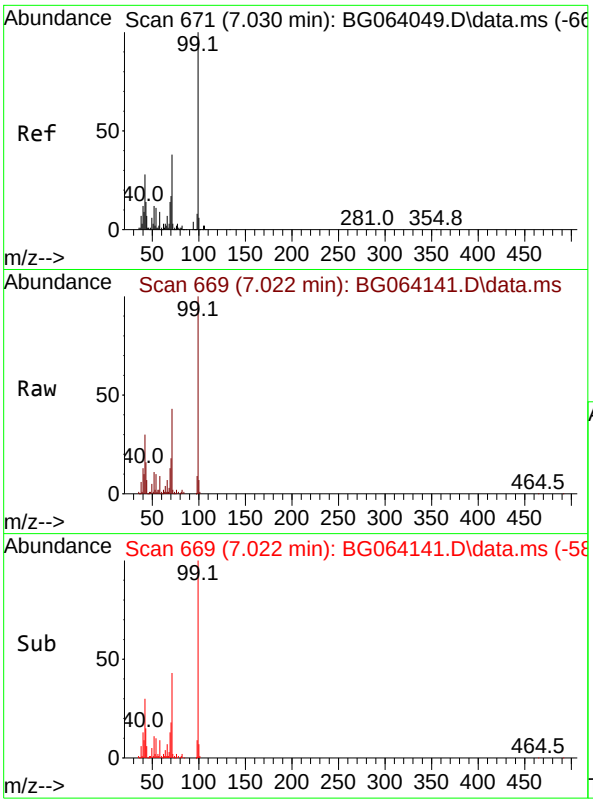


#5
2-Fluorophenol
Concen: 64.661 ng
RT: 5.448 min Scan# 401
Delta R.T. -0.002 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:112 Resp: 136429

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.7	80.5
63	38.4	30.2	45.4



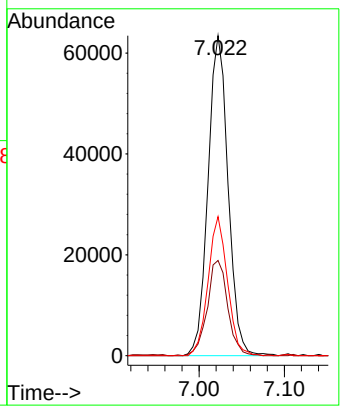


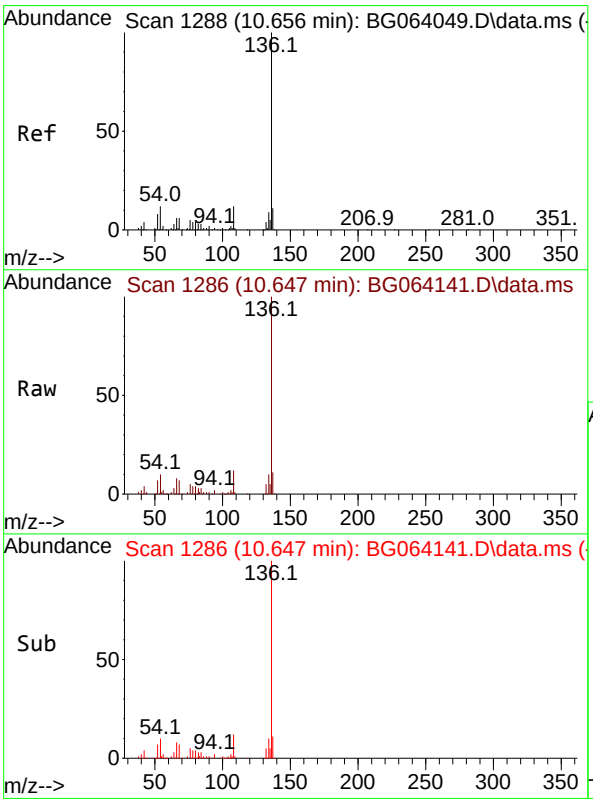
#7
Phenol-d6
Concen: 36.189 ng
RT: 7.022 min Scan# 6
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion: 99 Resp: 103872

Ion	Ratio	Lower	Upper
99	100		
42	29.8	22.7	34.1
71	43.4	30.6	46.0

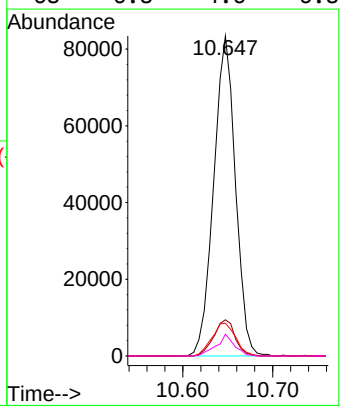


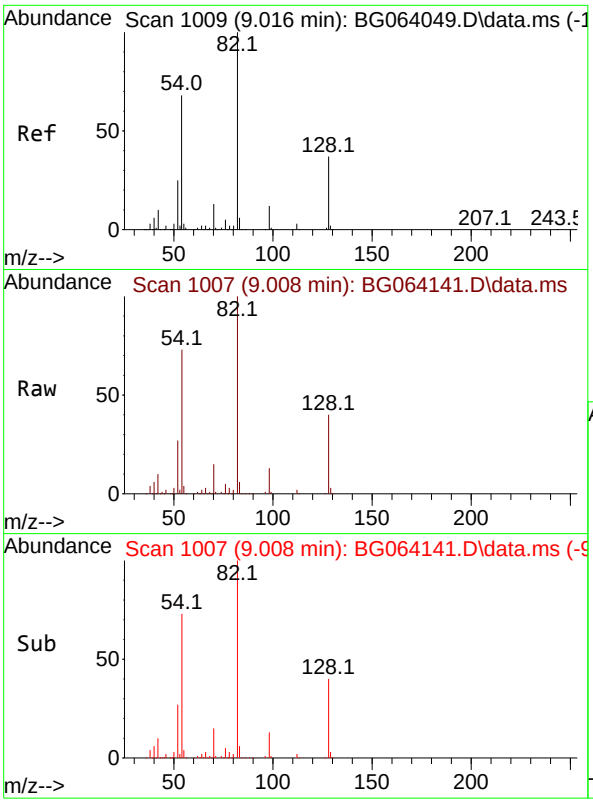


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.647 min Scan# 1286
Delta R.T. -0.009 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:136 Resp: 139968

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.5	12.7
54	10.3	9.9	14.9
68	6.8	4.6	6.8



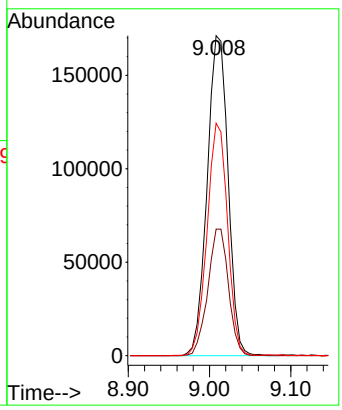


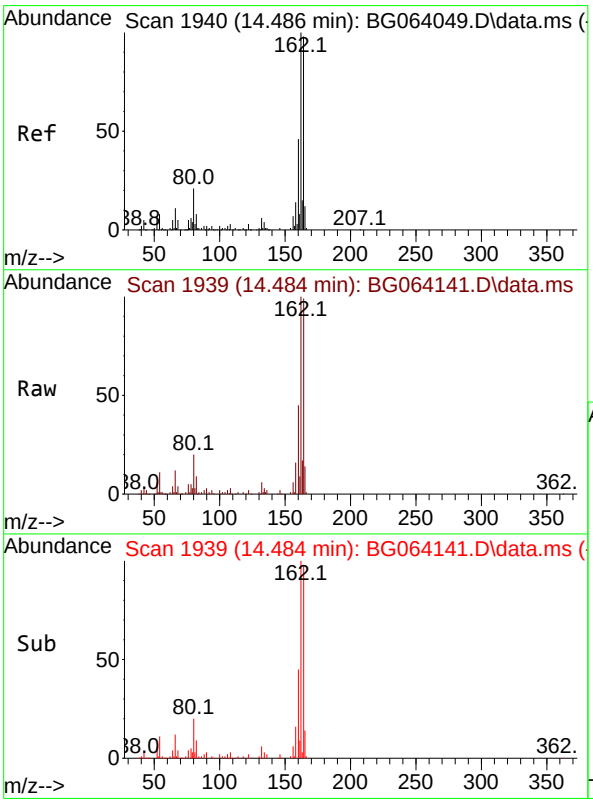
#23
Nitrobenzene-d5
Concen: 120.899 ng
RT: 9.008 min Scan# 1
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion: 82 Resp: 306214

Ion	Ratio	Lower	Upper
82	100		
128	39.5	30.0	45.0
54	72.6	54.7	82.1

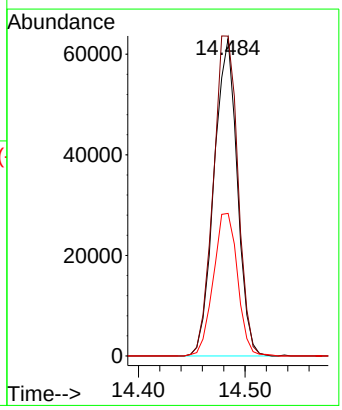


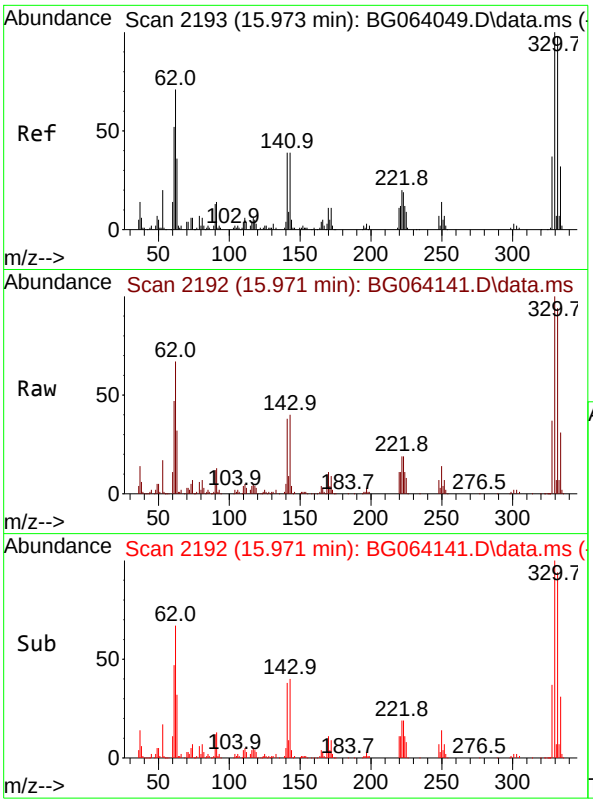


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.484 min Scan# 1939
Delta R.T. -0.002 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:164 Resp: 95119

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.4	122.0
160	44.9	37.0	55.6



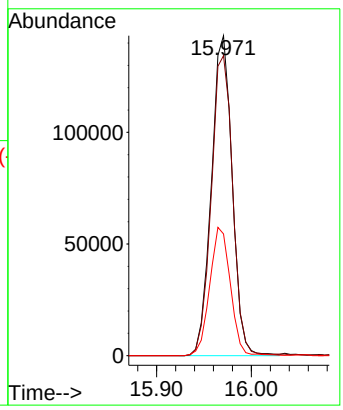


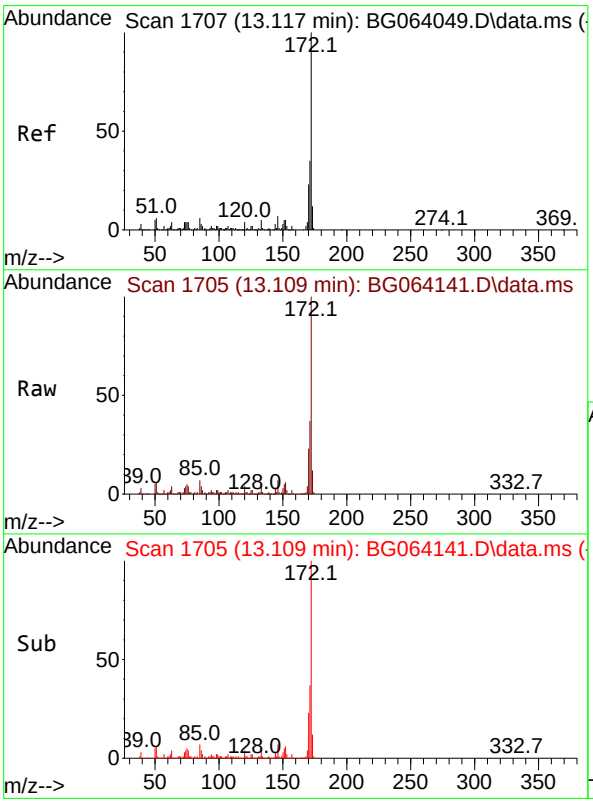
#42
2,4,6-Tribromophenol
Concen: 206.707 ng
RT: 15.971 min Scan# 21
Delta R.T. -0.002 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:330 Resp: 218554

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.7	115.1
141	39.9	29.7	44.5

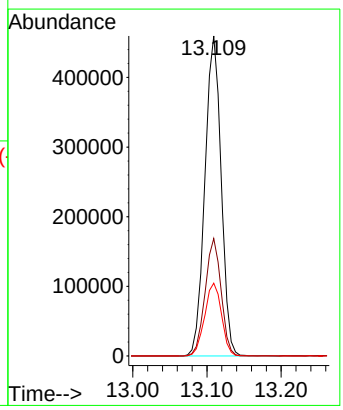


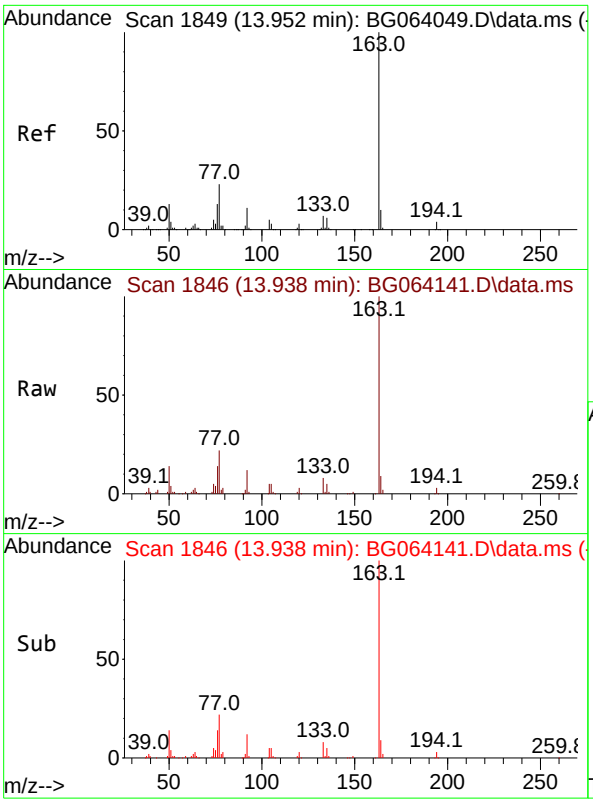


#45
2-Fluorobiphenyl
Concen: 111.760 ng
RT: 13.109 min Scan# 1705
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:172 Resp: 700349

Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.0	42.0
170	22.8	18.7	28.1



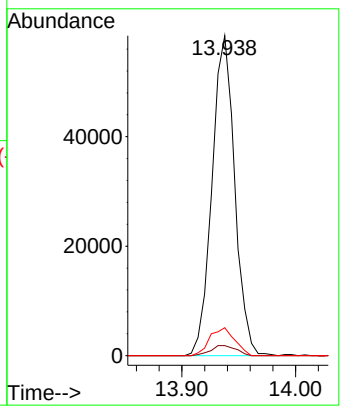


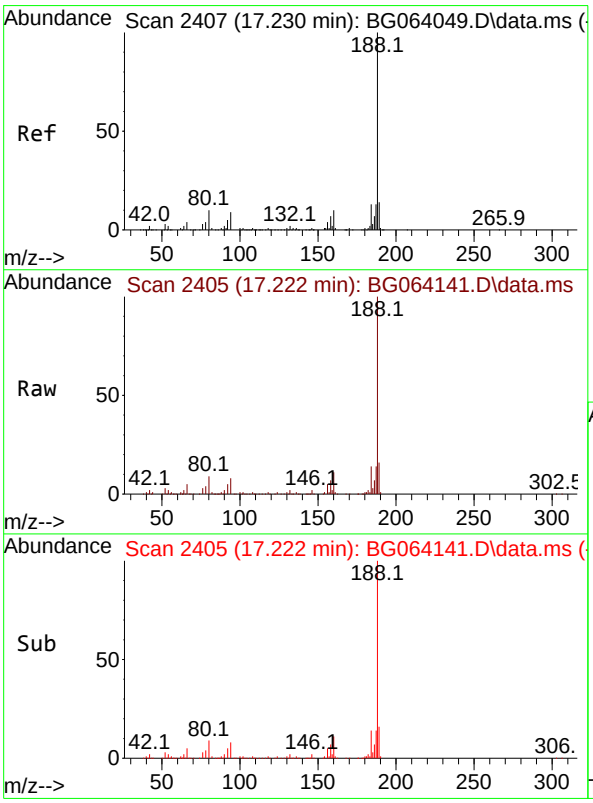
#50
Dimethylphthalate
Concen: 11.527 ng
RT: 13.938 min Scan# 1
Delta R.T. -0.014 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:163 Resp: 80935

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	8.8	8.2	12.2

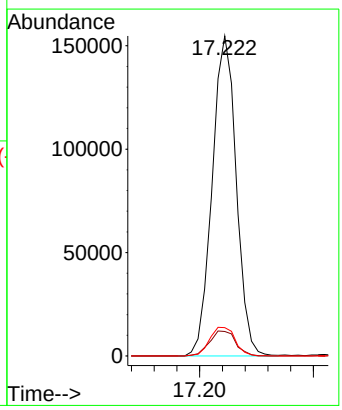


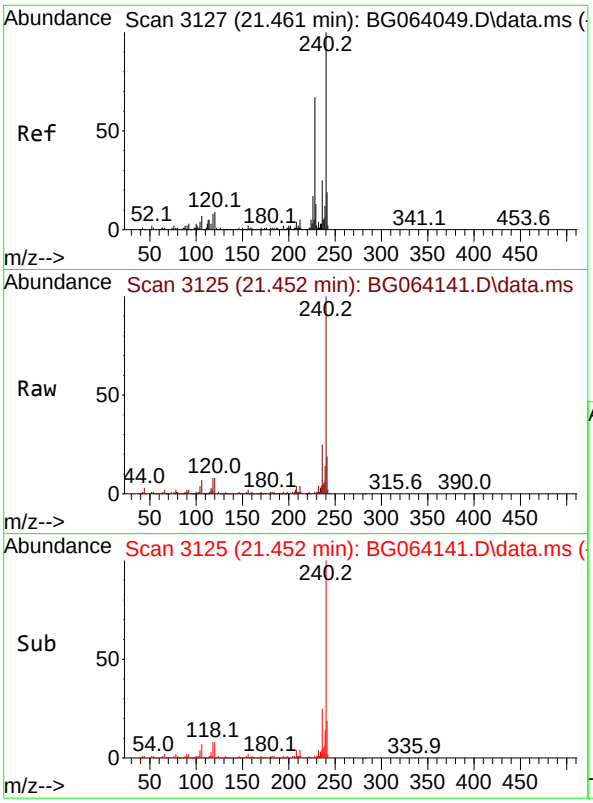


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.222 min Scan# 2405
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:188 Resp: 227404

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.9	10.3
80	8.9	8.1	12.1



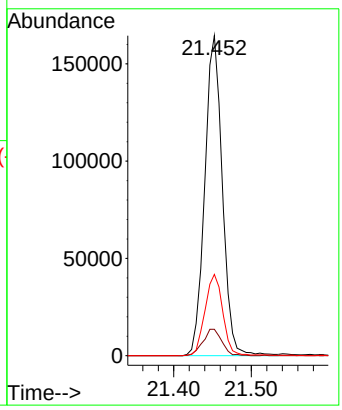


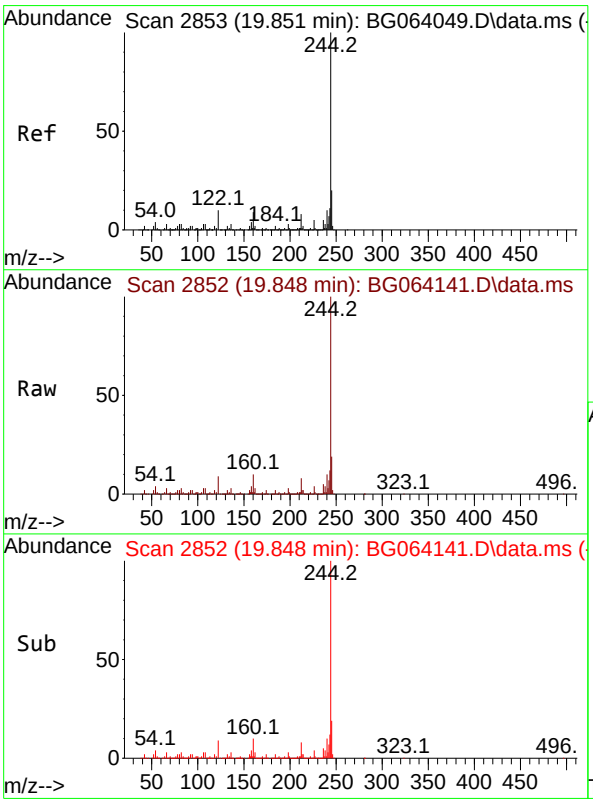
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.452 min Scan# 3
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:240 Resp: 259176

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.2	10.8
236	25.4	20.2	30.2

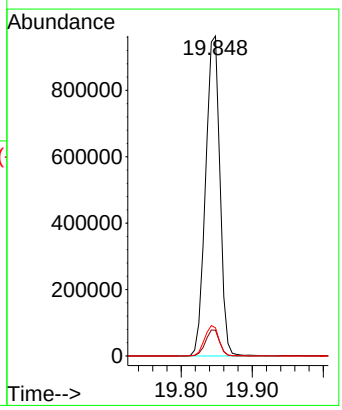


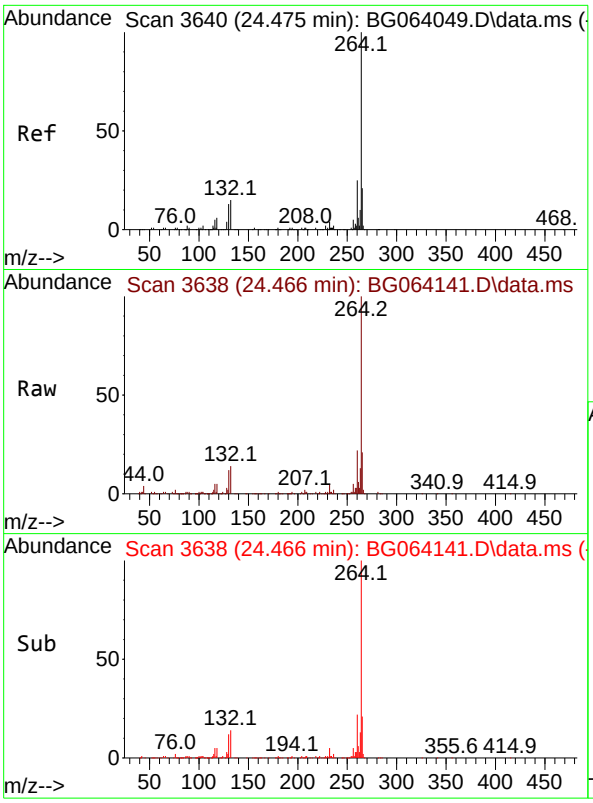


#79
Terphenyl-d14
Concen: 105.604 ng
RT: 19.848 min Scan# 2852
Delta R.T. -0.002 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Tgt Ion:244 Resp: 1353612

Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.4
122	8.8	8.0	12.0



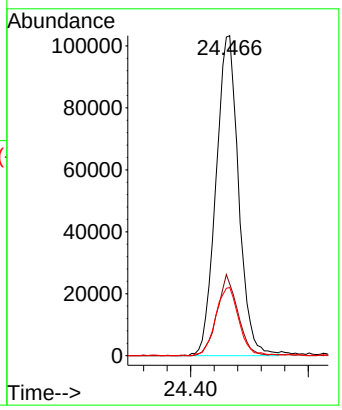


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.466 min Scan# 3
Delta R.T. -0.008 min
Lab File: BG064141.D
Acq: 1 Apr 2025 19:05

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-005-01

Tgt Ion:264 Resp: 276065

Ion	Ratio	Lower	Upper
264	100		
260	22.4	19.6	29.4
265	21.3	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-18	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064142.D	1	03/31/25 11:00	04/01/25 19:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-18	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064142.D	1	03/31/25 11:00	04/01/25 19:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-006-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-18	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064142.D	1	03/31/25 11:00	04/01/25 19:45	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.7		10 - 139	42%	SPK: 150
13127-88-3	Phenol-d6	38.2		10 - 134	25%	SPK: 150
4165-60-0	Nitrobenzene-d5	119		49 - 133	119%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		52 - 132	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	206		44 - 137	137%	SPK: 150
1718-51-0	Terphenyl-d14	105		48 - 125	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34900	7.859			
1146-65-2	Naphthalene-d8	141000	10.644			
15067-26-2	Acenaphthene-d10	96400	14.481			
1517-22-2	Phenanthrene-d10	231000	17.224			
1719-03-5	Chrysene-d12	262000	21.449			
1520-96-3	Perylene-d12	281000	24.457			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064142.D
Acq On : 1 Apr 2025 19:45
Operator : RC/JU
Sample : Q1664-18
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Apr 02 01:36:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

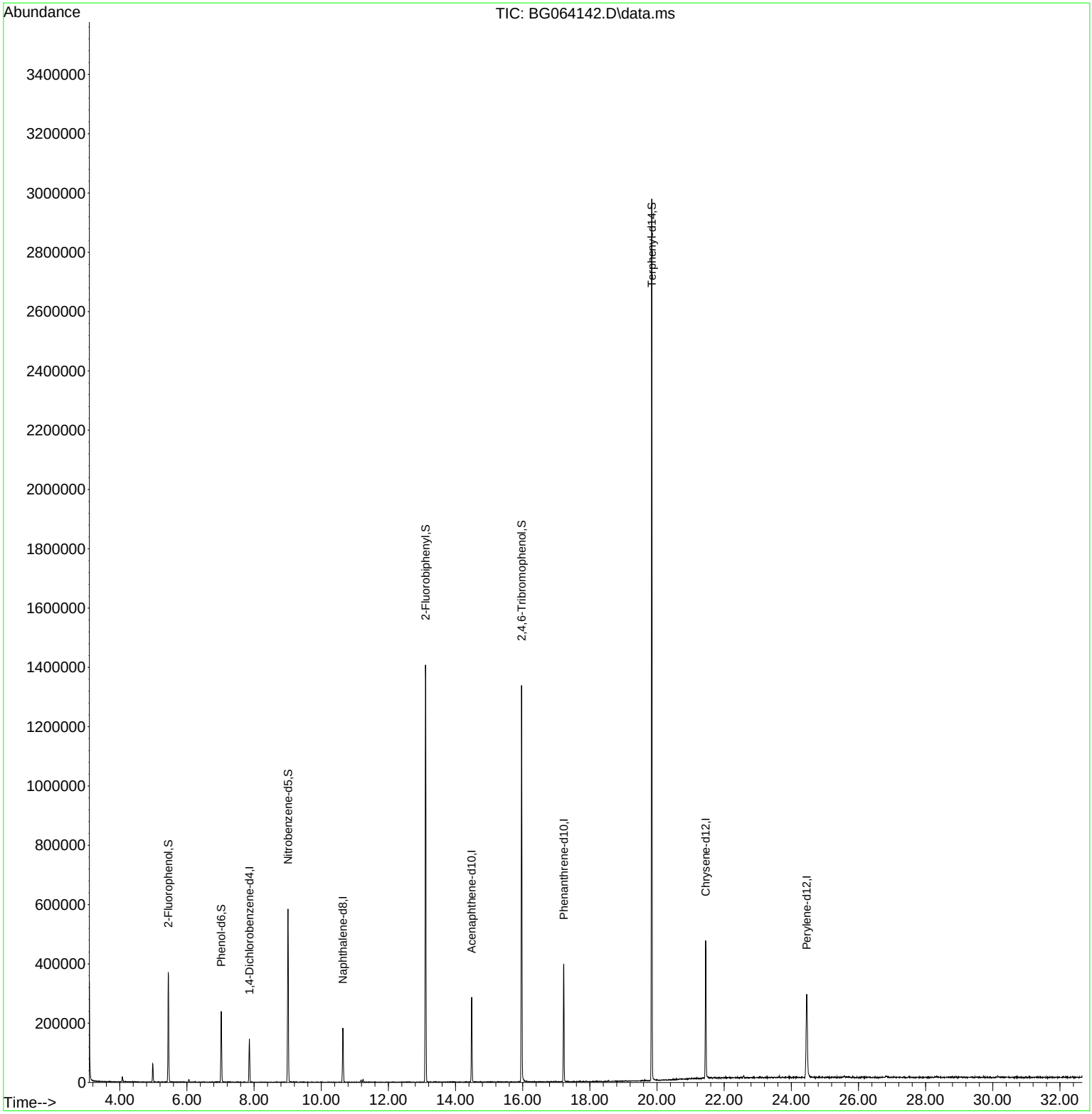
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.859	152	34864	20.000	ng	# 0.00
21) Naphthalene-d8	10.644	136	141203	20.000	ng	-0.01
39) Acenaphthene-d10	14.481	164	96364	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	230878	20.000	ng	0.00
76) Chrysene-d12	21.449	240	262499	20.000	ng	-0.01
86) Perylene-d12	24.457	264	281469	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.444	112	142284	63.724	ng	0.00
7) Phenol-d6	7.019	99	116098	38.222	ng	-0.01
23) Nitrobenzene-d5	9.011	82	304923	119.336	ng	0.00
42) 2,4,6-Tribromophenol	15.967	330	220341	205.704	ng	0.00
45) 2-Fluorobiphenyl	13.106	172	689364	108.585	ng	-0.01
79) Terphenyl-d14	19.845	244	1366621	105.269	ng	0.00
Target Compounds						Qvalue

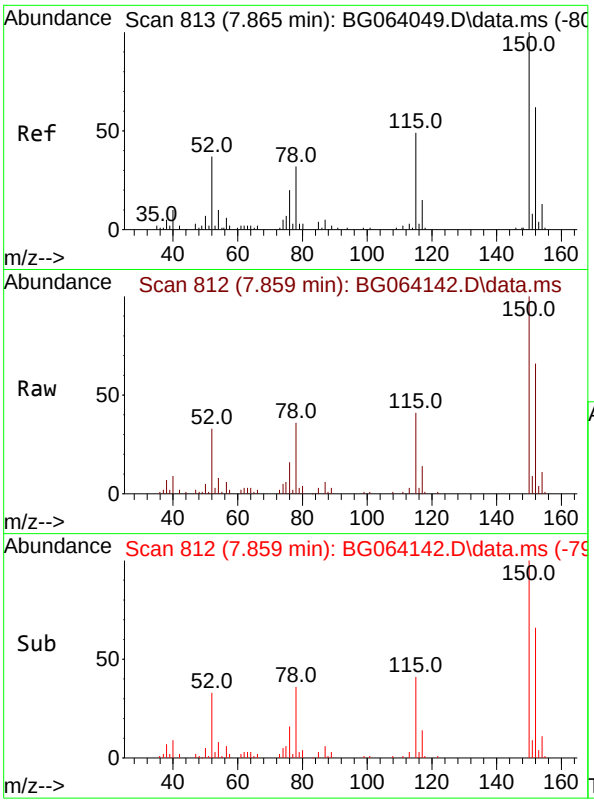
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064142.D
Acq On : 1 Apr 2025 19:45
Operator : RC/JU
Sample : Q1664-18
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Quant Time: Apr 02 01:36:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



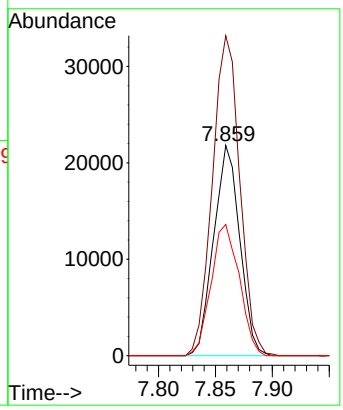


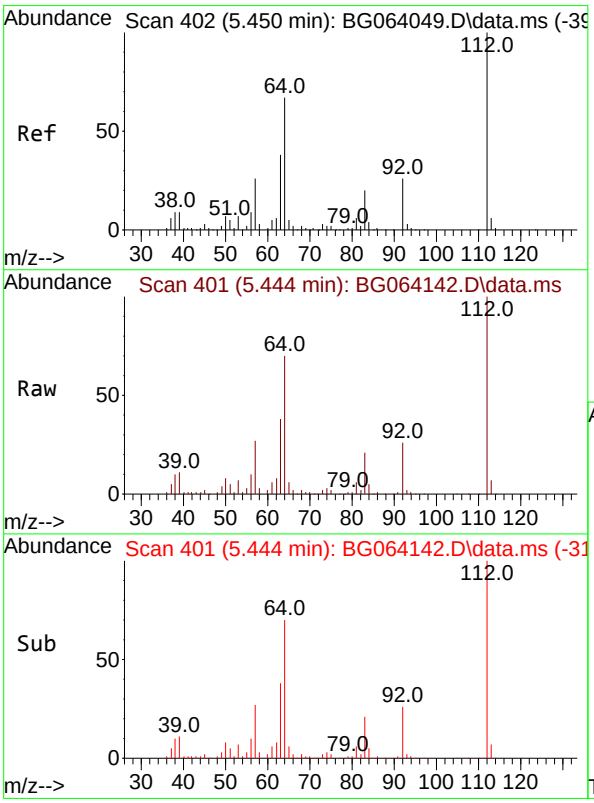
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.859 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:152 Resp: 34864

Ion	Ratio	Lower	Upper
152	100		
150	152.3	129.2	193.8
115	62.4	63.0	94.6#

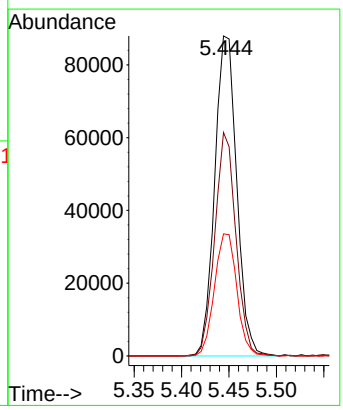


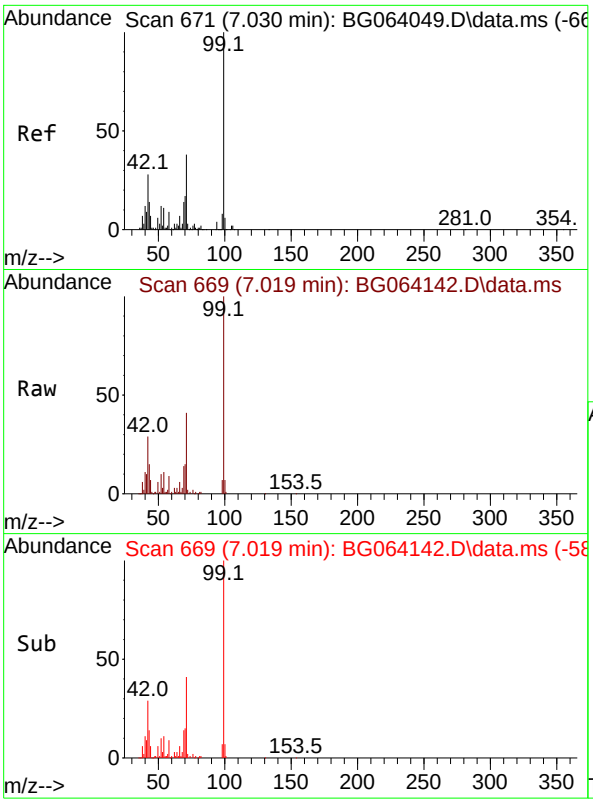


#5
2-Fluorophenol
Concen: 63.724 ng
RT: 5.444 min Scan# 401
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:112 Resp: 142284

Ion	Ratio	Lower	Upper
112	100		
64	69.8	53.7	80.5
63	38.1	30.2	45.4



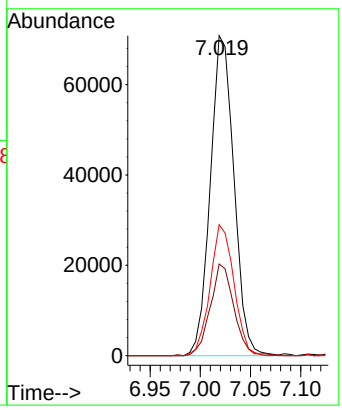


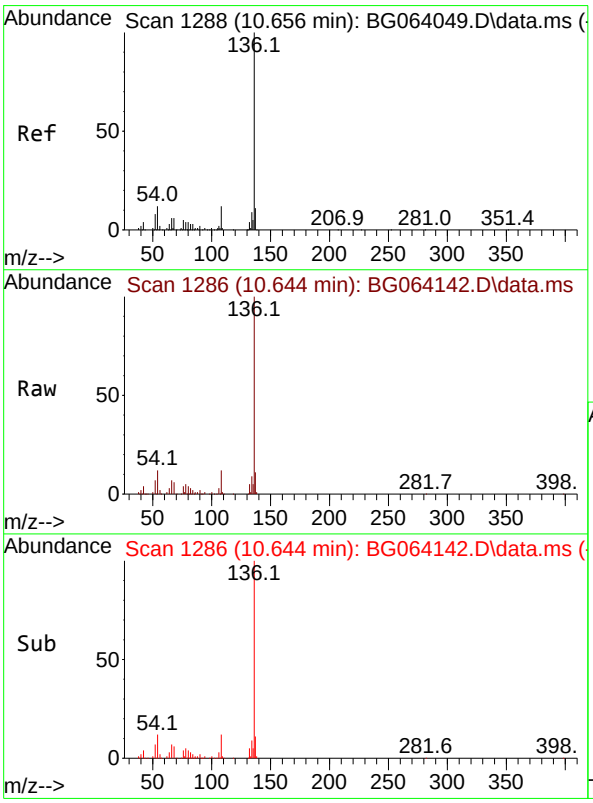
#7
Phenol-d6
Concen: 38.222 ng
RT: 7.019 min Scan# 6
Delta R.T. -0.012 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion: 99 Resp: 116098

Ion	Ratio	Lower	Upper
99	100		
42	28.7	22.7	34.1
71	40.9	30.6	46.0

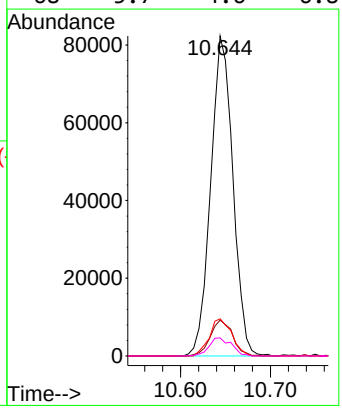


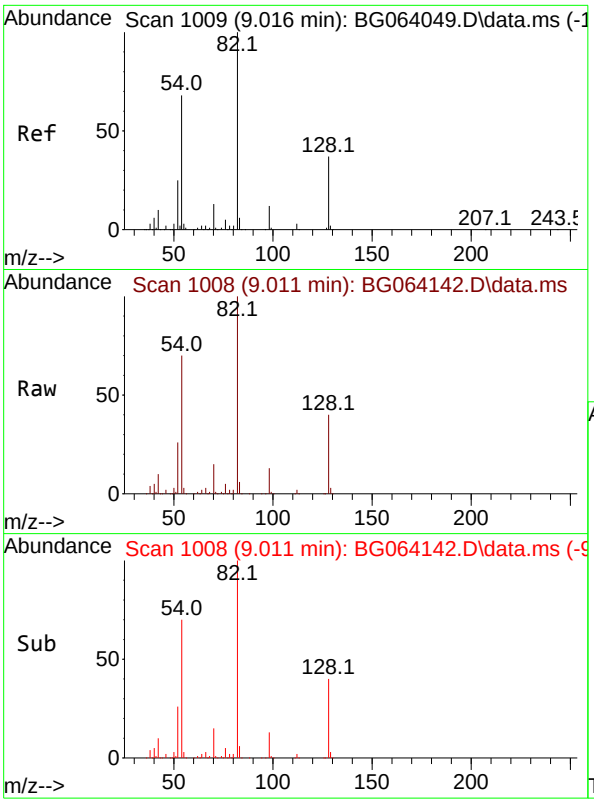


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.644 min Scan# 1286
Delta R.T. -0.012 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:136 Resp: 141203

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.5	12.7
54	11.6	9.9	14.9
68	5.7	4.6	6.8



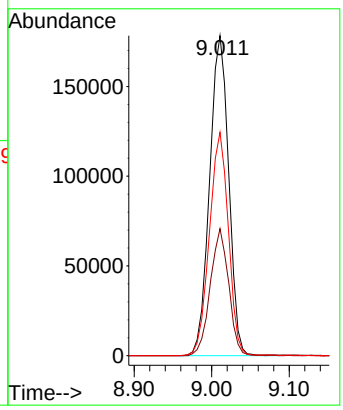


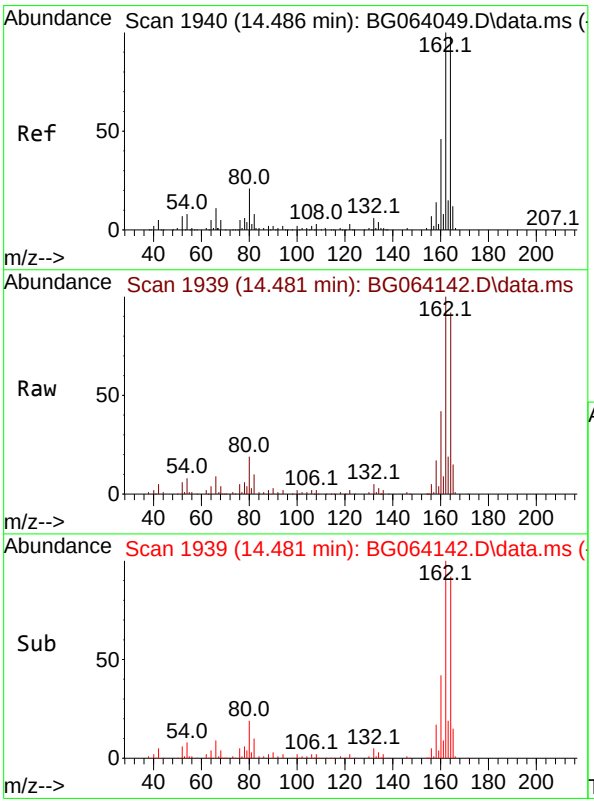
#23
Nitrobenzene-d5
Concen: 119.336 ng
RT: 9.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion: 82 Resp: 304923

Ion	Ratio	Lower	Upper
82	100		
128	39.7	30.0	45.0
54	69.8	54.7	82.1

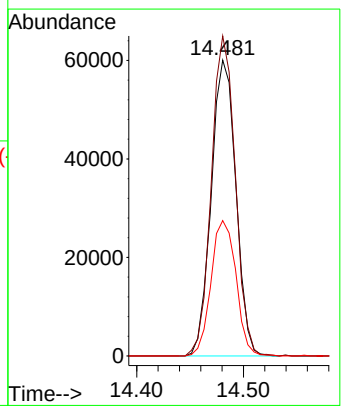


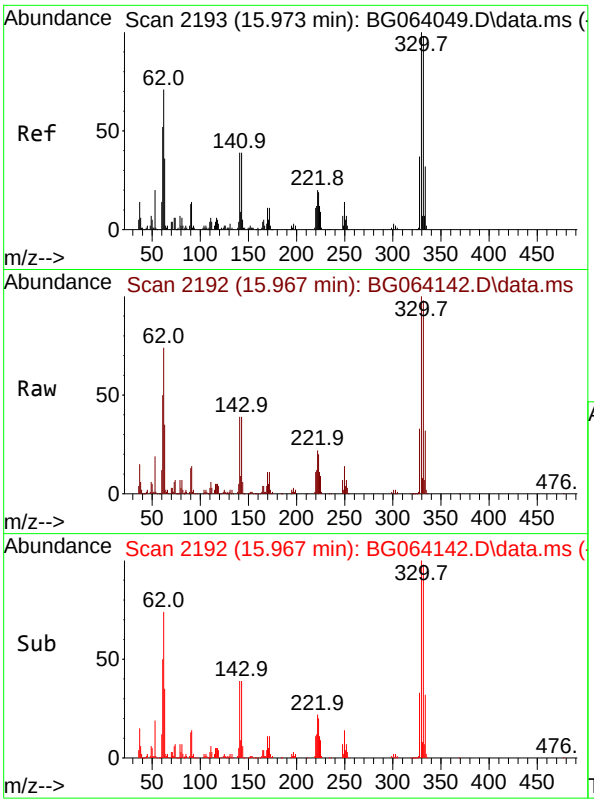


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.481 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:164 Resp: 96364

Ion	Ratio	Lower	Upper
164	100		
162	108.2	81.4	122.0
160	45.7	37.0	55.6



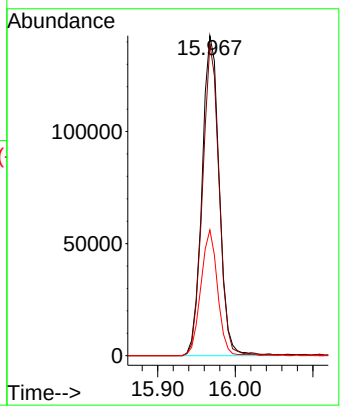


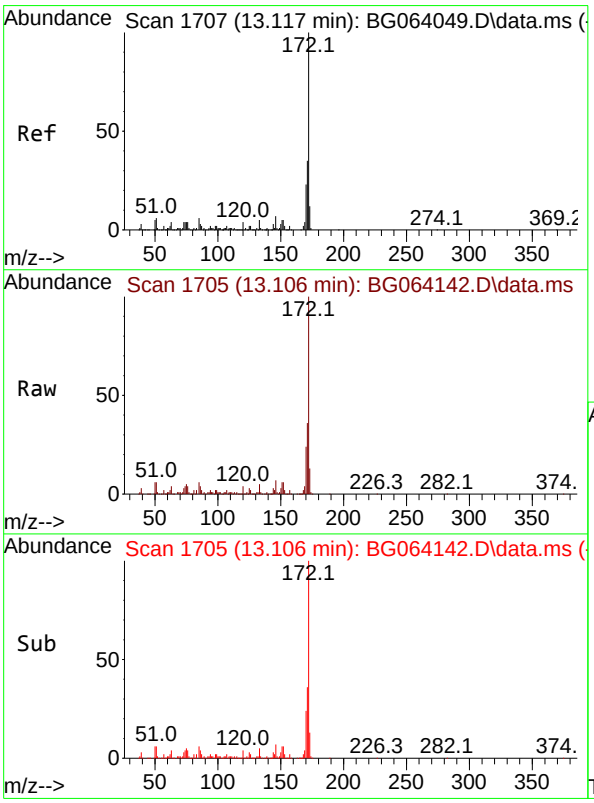
#42
2,4,6-Tribromophenol
Concen: 205.704 ng
RT: 15.967 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:330 Resp: 220341

Ion	Ratio	Lower	Upper
330	100		
332	93.3	76.7	115.1
141	38.1	29.7	44.5

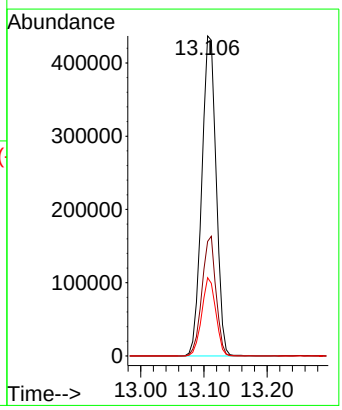


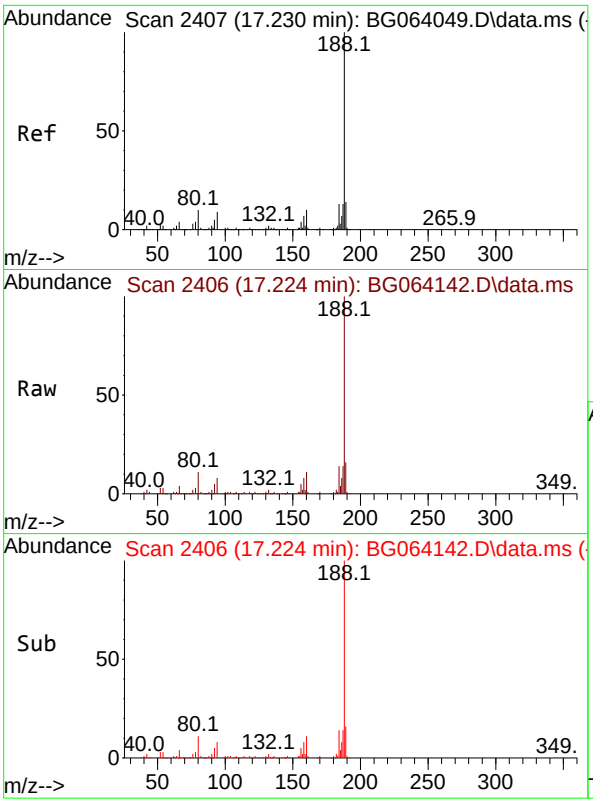


#45
2-Fluorobiphenyl
Concen: 108.585 ng
RT: 13.106 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:172 Resp: 689364

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.0	42.0
170	24.4	18.7	28.1



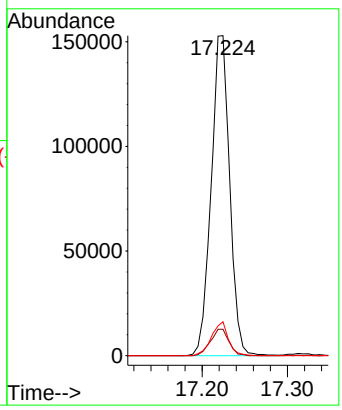


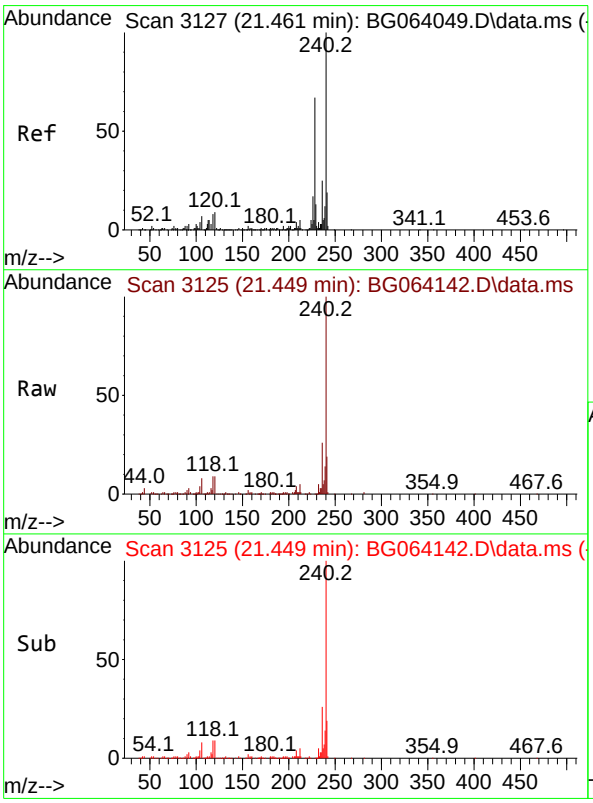
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:188 Resp: 230878

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.9	10.3
80	10.6	8.1	12.1

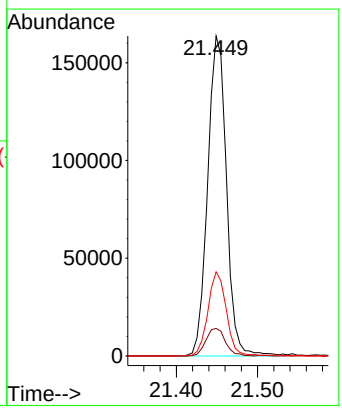


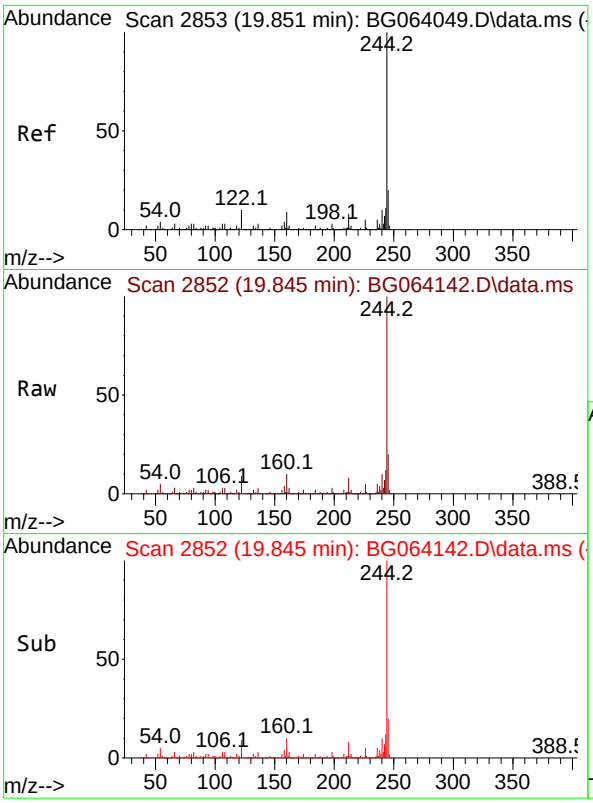


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.449 min Scan# 3125
Delta R.T. -0.012 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:240 Resp: 262499

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.2	10.8
236	26.3	20.2	30.2



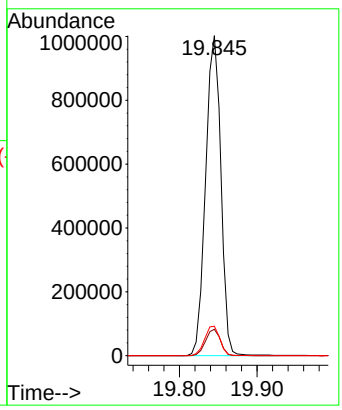


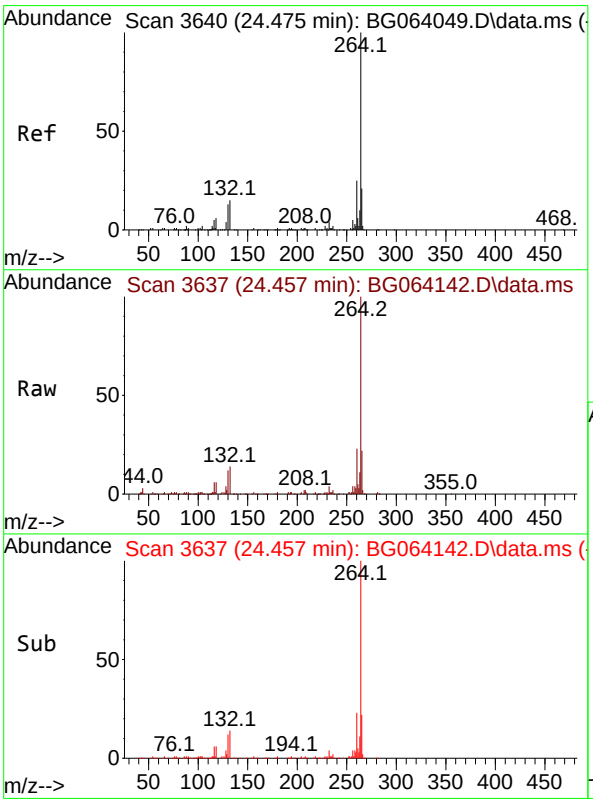
#79
Terphenyl-d14
Concen: 105.269 ng
RT: 19.845 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-006-01

Tgt Ion:244 Resp: 1366621

Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.2	9.4
122	9.2	8.0	12.0

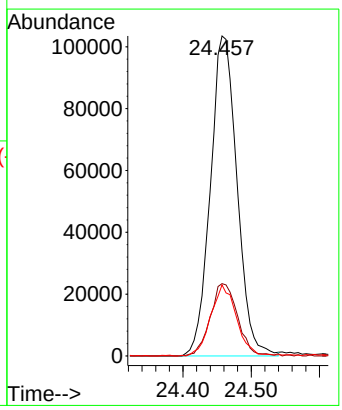




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.457 min Scan# 3637
Delta R.T. -0.017 min
Lab File: BG064142.D
Acq: 1 Apr 2025 19:45

Tgt Ion:264 Resp: 281469

Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.6	29.4
265	22.2	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-20	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064143.D	1	03/31/25 11:00	04/01/25 20:26	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-20	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064143.D	1	03/31/25 11:00	04/01/25 20:26	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	3.80	J	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-007-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-20	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064143.D	1	03/31/25 11:00	04/01/25 20:26	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.6		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	35.0		10 - 134	23%	SPK: 150
4165-60-0	Nitrobenzene-d5	117		49 - 133	117%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		52 - 132	104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	186		44 - 137	124%	SPK: 150
1718-51-0	Terphenyl-d14	104		48 - 125	104%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34800	7.861			
1146-65-2	Naphthalene-d8	145000	10.646			
15067-26-2	Acenaphthene-d10	101000	14.483			
1517-22-2	Phenanthrene-d10	225000	17.221			
1719-03-5	Chrysene-d12	256000	21.451			
1520-96-3	Perylene-d12	278000	24.46			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064143.D
Acq On : 1 Apr 2025 20:26
Operator : RC/JU
Sample : Q1664-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Apr 02 01:36:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

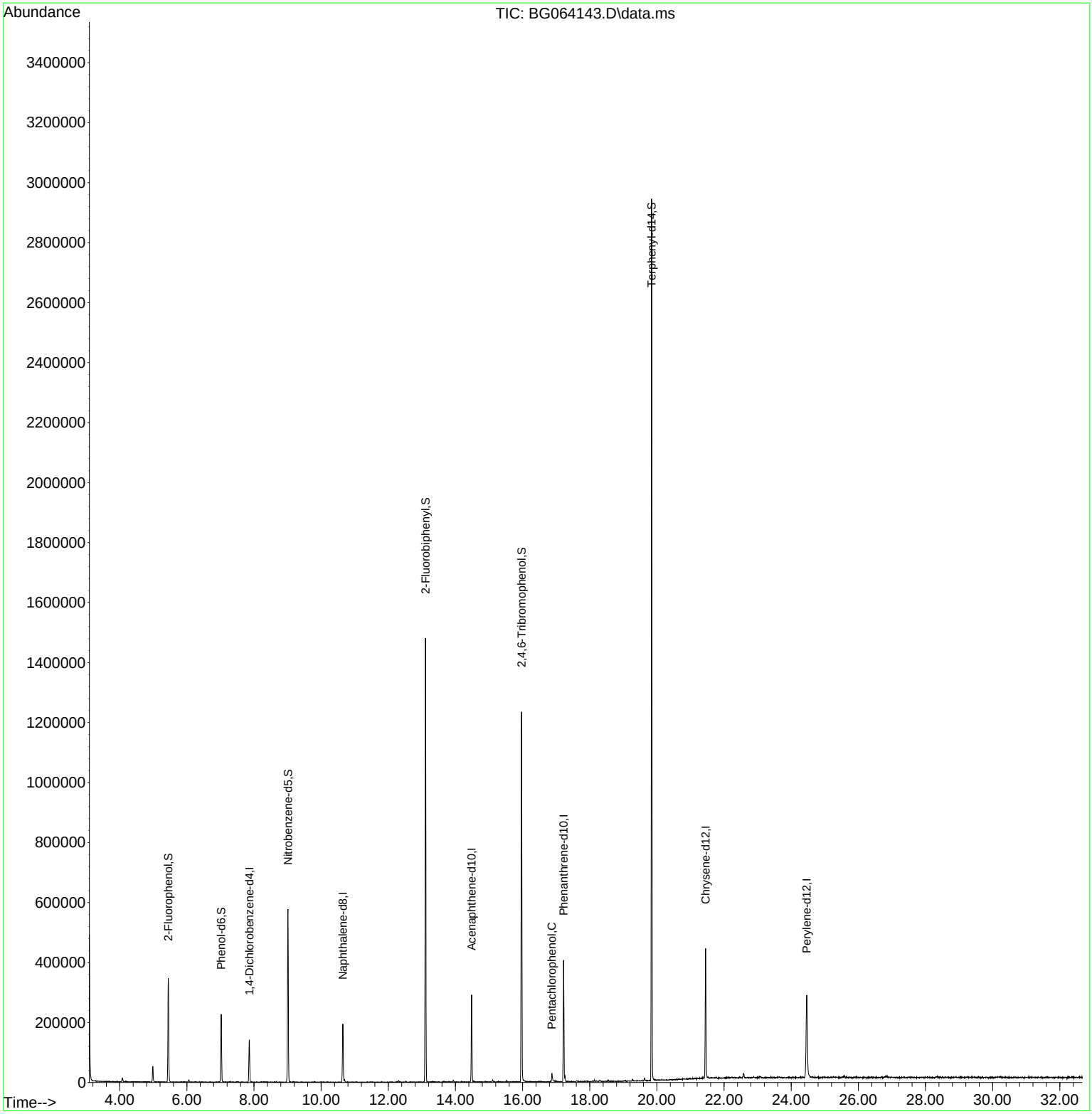
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	34800	20.000	ng	# 0.00
21) Naphthalene-d8	10.646	136	145195	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	100676	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	224548	20.000	ng	0.00
76) Chrysene-d12	21.451	240	255840	20.000	ng	0.00
86) Perylene-d12	24.460	264	278315	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.453	112	137225	61.572	ng	0.00
7) Phenol-d6	7.021	99	106057	34.980	ng	0.00
23) Nitrobenzene-d5	9.013	82	307770	117.139	ng	0.00
42) 2,4,6-Tribromophenol	15.970	330	208074	185.932	ng	0.00
45) 2-Fluorobiphenyl	13.108	172	692265	104.372	ng	0.00
79) Terphenyl-d14	19.842	244	1313084	103.778	ng	0.00
Target Compounds						Qvalue
70) Pentachlorophenol	16.874	266	6122	3.830	ng	# 79

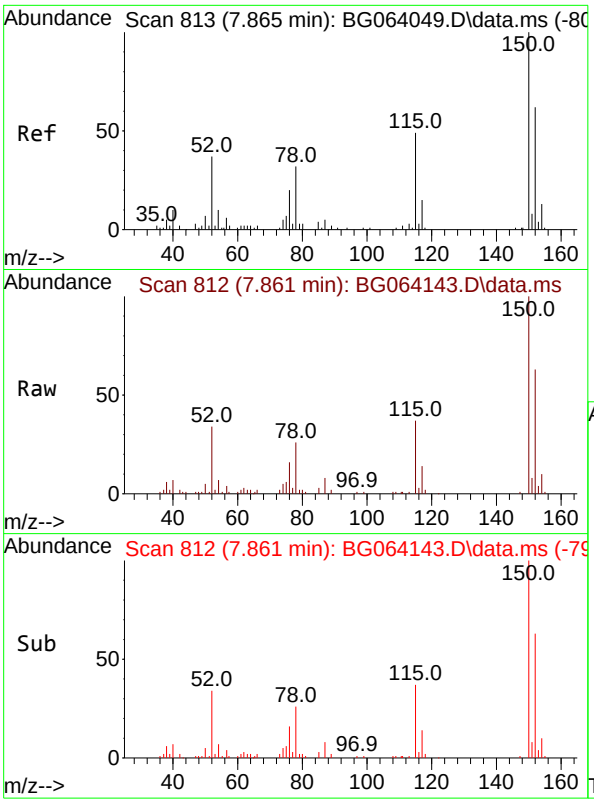
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064143.D
Acq On : 1 Apr 2025 20:26
Operator : RC/JU
Sample : Q1664-20
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Quant Time: Apr 02 01:36:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



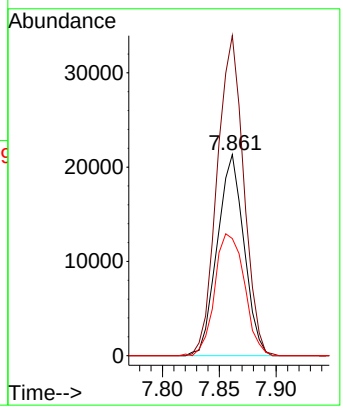


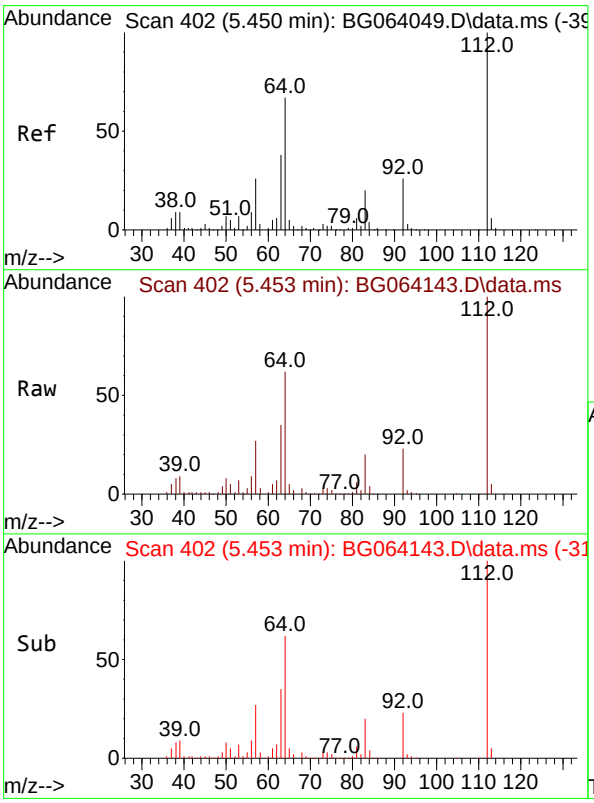
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:152 Resp: 34800

Ion	Ratio	Lower	Upper
152	100		
150	159.1	129.2	193.8
115	58.2	63.0	94.6#

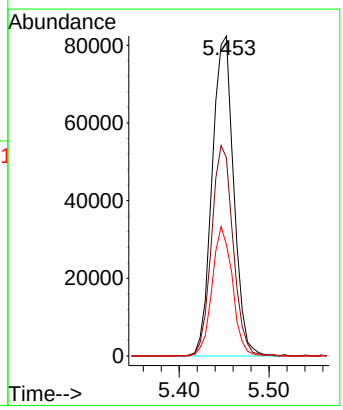


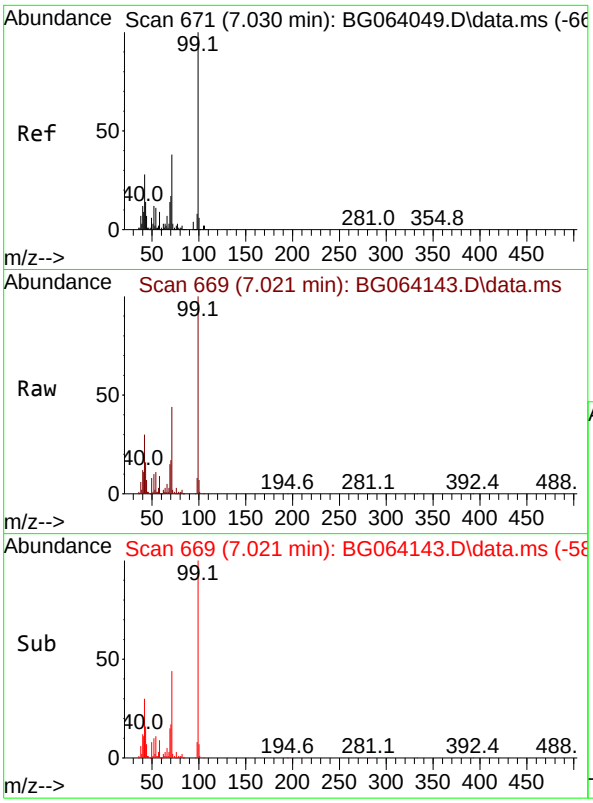


#5
2-Fluorophenol
Concen: 61.572 ng
RT: 5.453 min Scan# 402
Delta R.T. 0.003 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:112 Resp: 137225

Ion	Ratio	Lower	Upper
112	100		
64	62.0	53.7	80.5
63	34.8	30.2	45.4



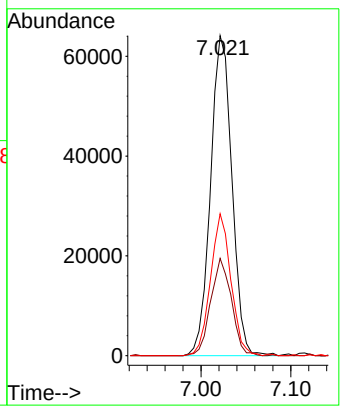


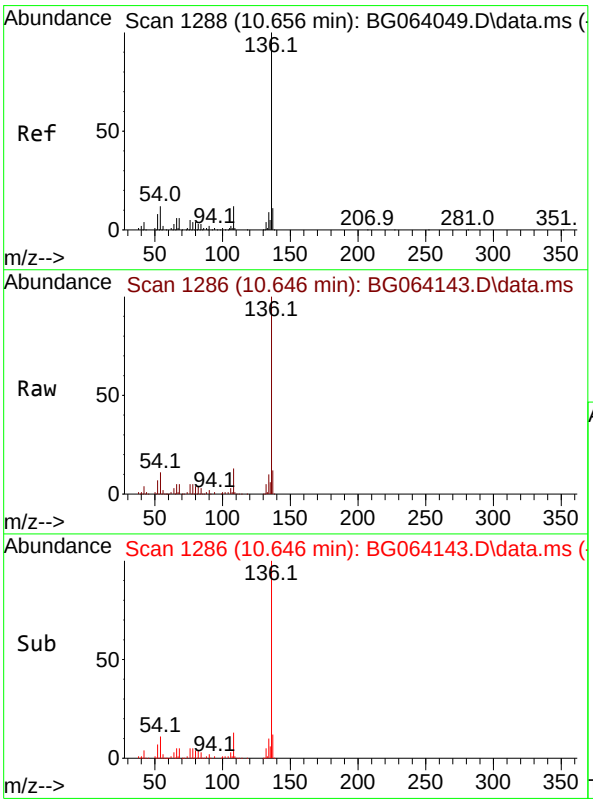
#7
Phenol-d6
Concen: 34.980 ng
RT: 7.021 min Scan# 6
Delta R.T. -0.009 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion: 99 Resp: 106057

Ion	Ratio	Lower	Upper
99	100		
42	30.4	22.7	34.1
71	44.4	30.6	46.0

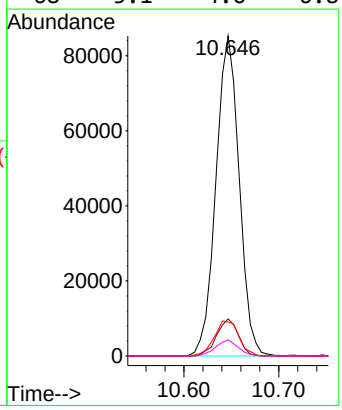


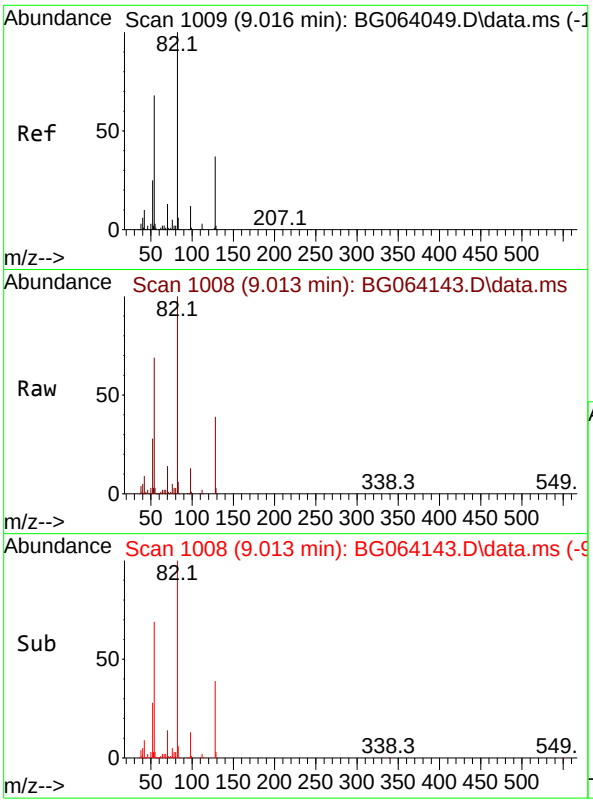


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.646 min Scan# 1286
Delta R.T. -0.010 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:136 Resp: 145195

Ion	Ratio	Lower	Upper
136	100		
137	11.6	8.5	12.7
54	10.6	9.9	14.9
68	5.1	4.6	6.8



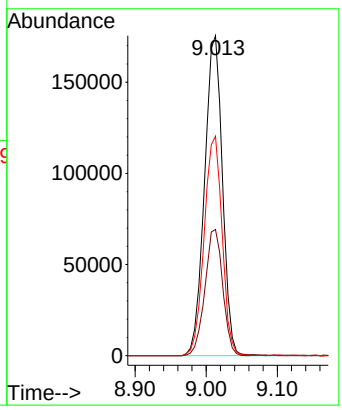


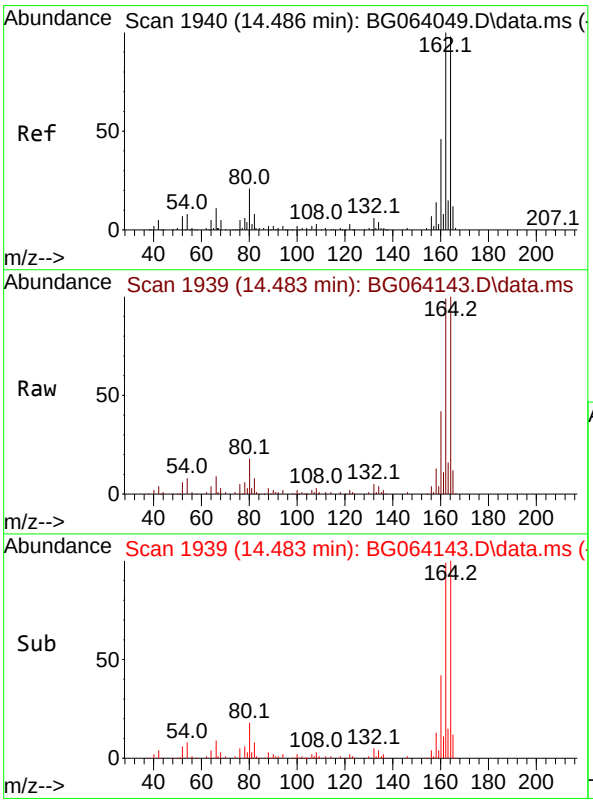
#23
Nitrobenzene-d5
Concen: 117.139 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion: 82 Resp: 307770

Ion	Ratio	Lower	Upper
82	100		
128	39.5	30.0	45.0
54	68.6	54.7	82.1

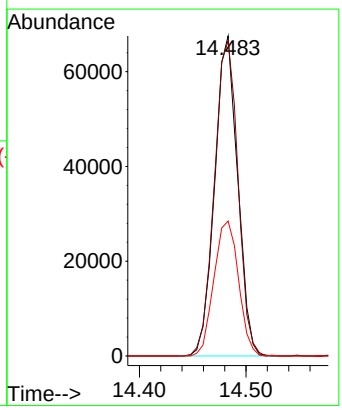


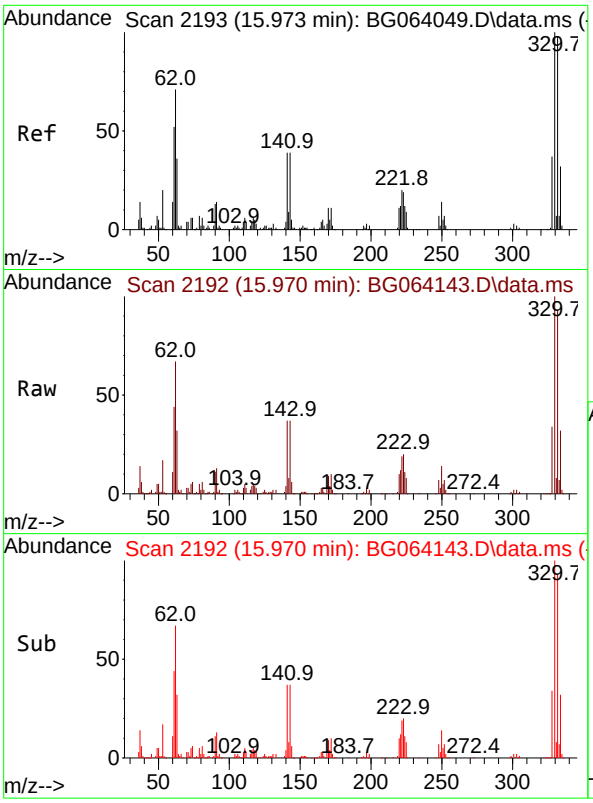


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:164 Resp: 100676

Ion	Ratio	Lower	Upper
164	100		
162	98.5	81.4	122.0
160	42.1	37.0	55.6



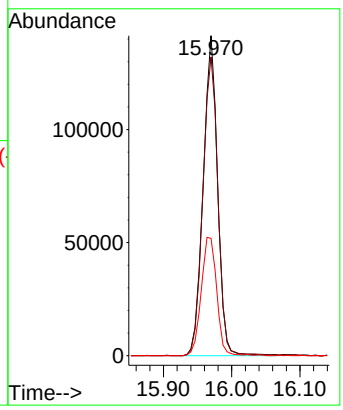


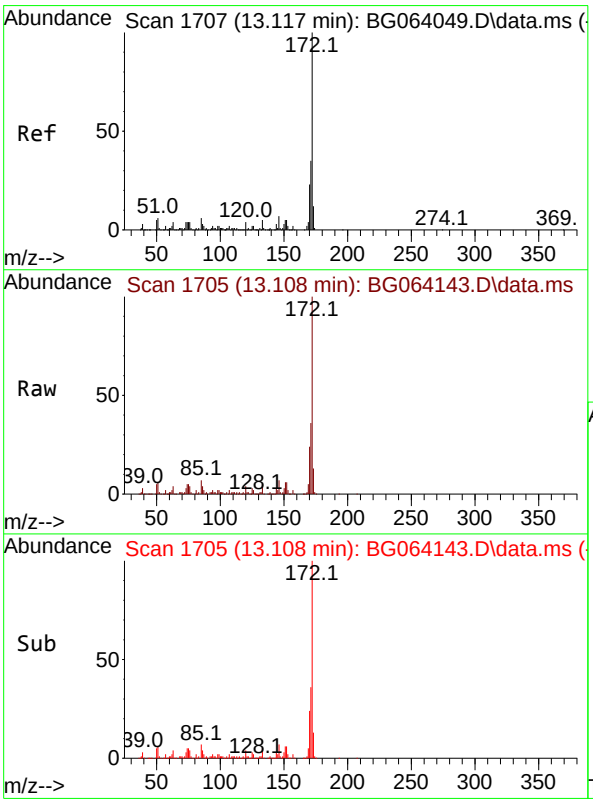
#42
2,4,6-Tribromophenol
Concen: 185.932 ng
RT: 15.970 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:330 Resp: 208074

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.7	115.1
141	39.7	29.7	44.5

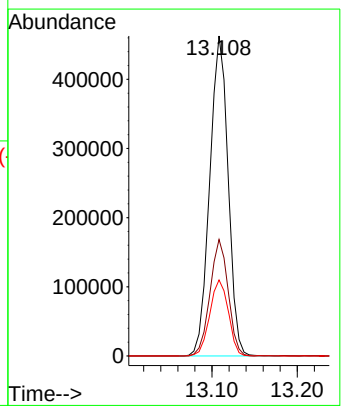


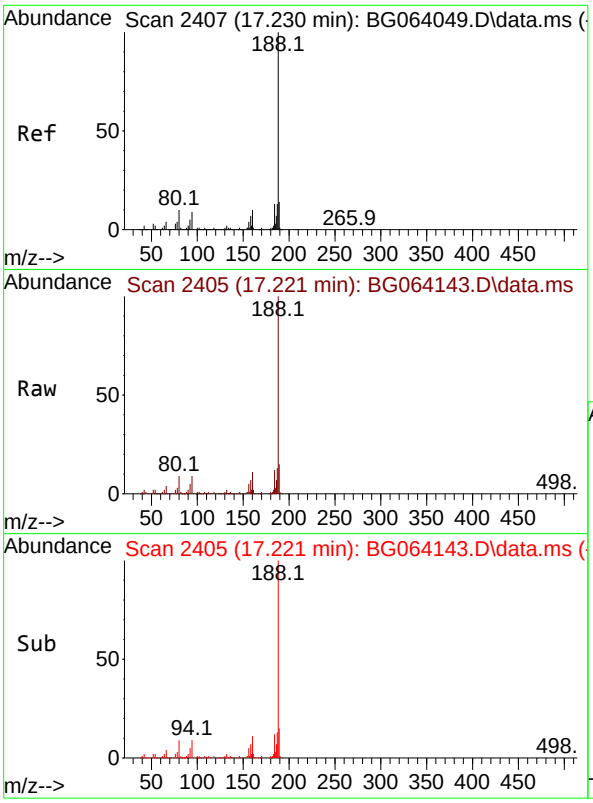


#45
2-Fluorobiphenyl
Concen: 104.372 ng
RT: 13.108 min Scan# 1705
Delta R.T. -0.009 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:172 Resp: 692265

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.0	42.0
170	23.8	18.7	28.1



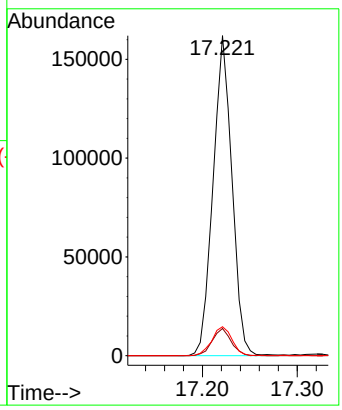


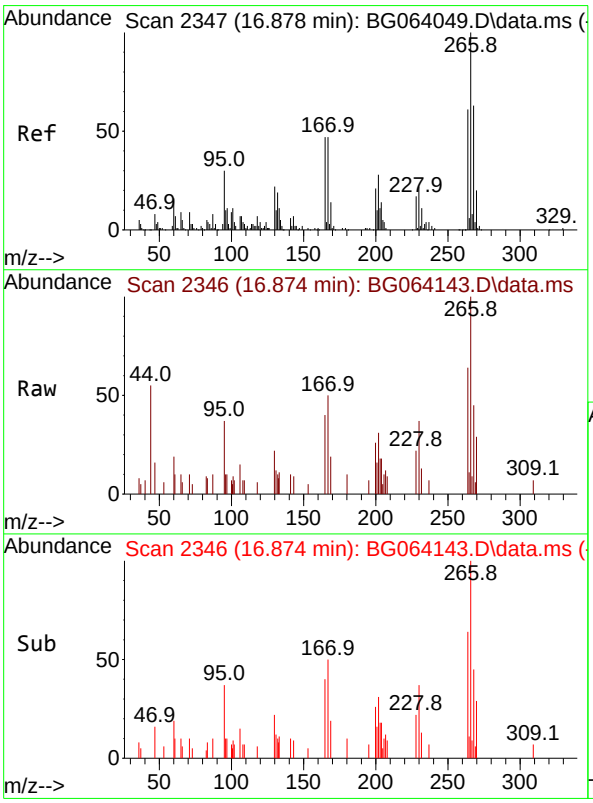
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 24
Delta R.T. -0.009 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:188 Resp: 224548

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.9	10.3
80	9.1	8.1	12.1

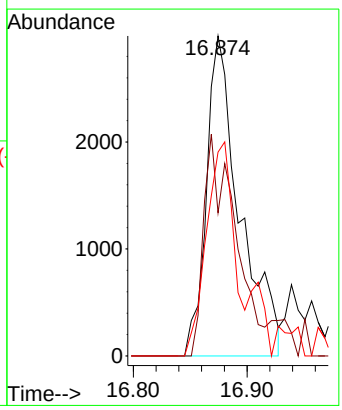


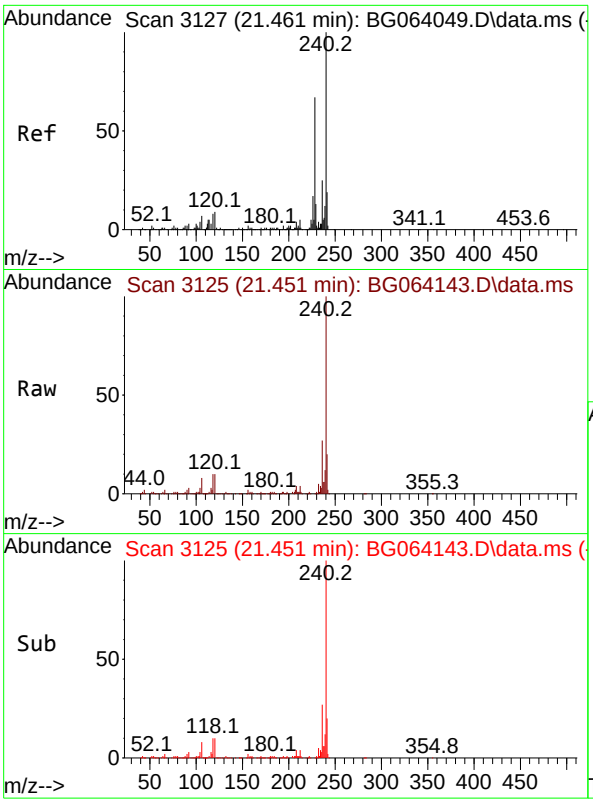


#70
Pentachlorophenol
Concen: 3.830 ng
RT: 16.874 min Scan# 2346
Delta R.T. -0.004 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:266 Resp: 6122

Ion	Ratio	Lower	Upper
266	100		
268	44.8	50.2	75.4#
264	75.2	48.9	73.3#



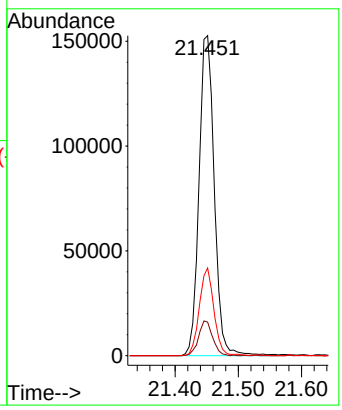


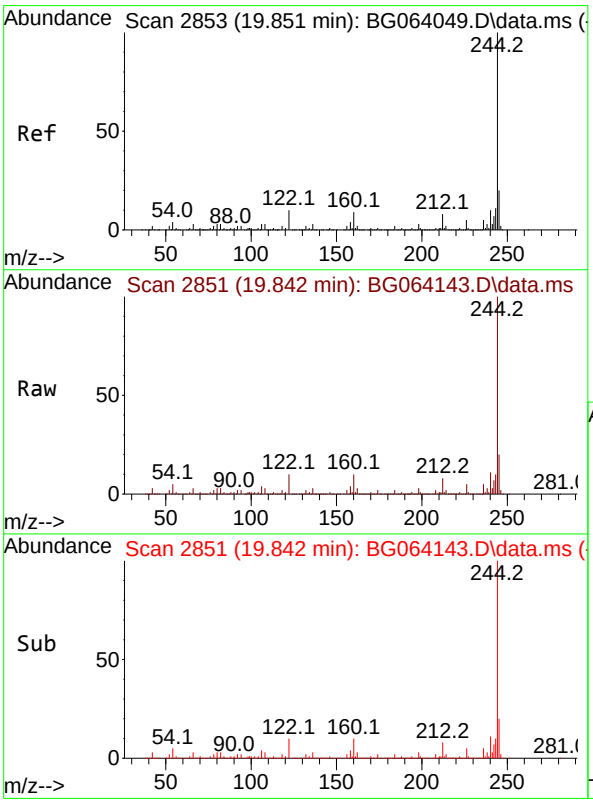
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3
Delta R.T. -0.009 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:240 Resp: 255840

Ion	Ratio	Lower	Upper
240	100		
120	10.5	7.2	10.8
236	27.4	20.2	30.2

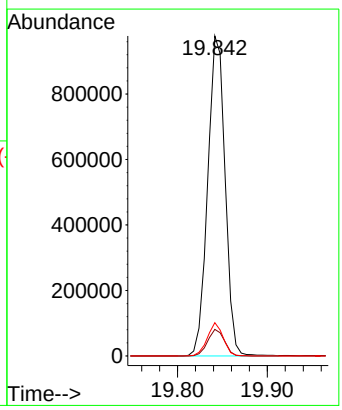


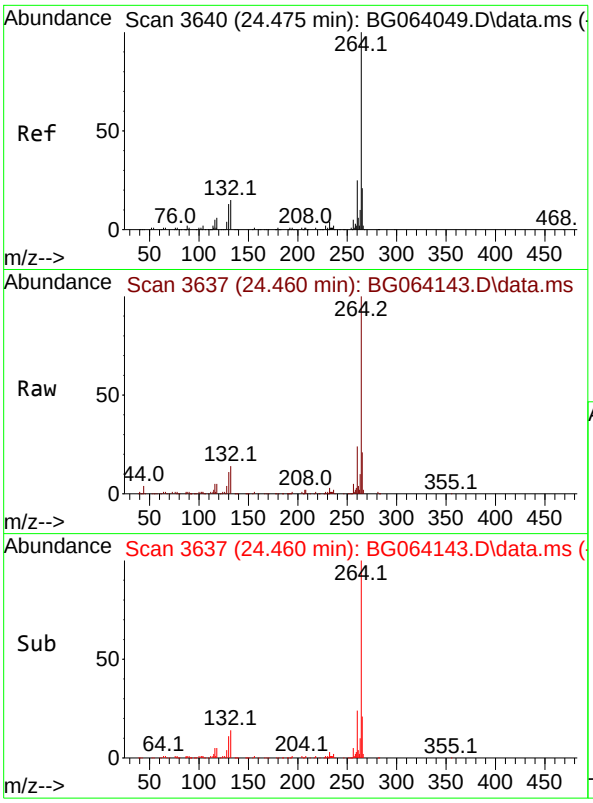


#79
Terphenyl-d14
Concen: 103.778 ng
RT: 19.842 min Scan# 2851
Delta R.T. -0.009 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Tgt Ion:244 Resp: 1313084

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.4
122	10.4	8.0	12.0



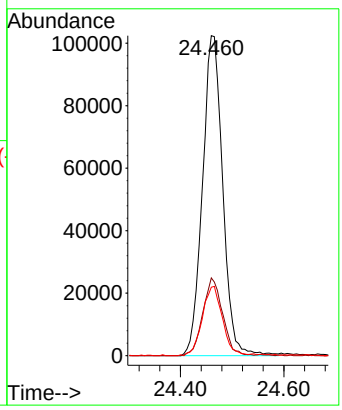


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.460 min Scan# 3
Delta R.T. -0.015 min
Lab File: BG064143.D
Acq: 1 Apr 2025 20:26

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-007-01

Tgt Ion:264 Resp: 278315

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.6	29.4
265	21.4	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-22	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064144.D	1	03/31/25 11:00	04/01/25 21:06	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	UQ	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	UQ	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	UQ	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	UQ	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-22	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064144.D	1	03/31/25 11:00	04/01/25 21:06	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	UQ	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	UQ	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	UQ	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-008-01	SDG No.:	Q1664
Lab Sample ID:	Q1664-22	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064144.D	1	03/31/25 11:00	04/01/25 21:06	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	77.3		10 - 139	52%	SPK: 150
13127-88-3	Phenol-d6	47.2		10 - 134	31%	SPK: 150
4165-60-0	Nitrobenzene-d5	119		49 - 133	119%	SPK: 100
321-60-8	2-Fluorobiphenyl	106		52 - 132	106%	SPK: 100
118-79-6	2,4,6-Tribromophenol	199		44 - 137	132%	SPK: 150
1718-51-0	Terphenyl-d14	103		48 - 125	103%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34100	7.859			
1146-65-2	Naphthalene-d8	146000	10.644			
15067-26-2	Acenaphthene-d10	99400	14.481			
1517-22-2	Phenanthrene-d10	240000	17.219			
1719-03-5	Chrysene-d12	276000	21.449			
1520-96-3	Perylene-d12	287000	24.463			

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064144.D
Acq On : 1 Apr 2025 21:06
Operator : RC/JU
Sample : Q1664-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Apr 02 01:36:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

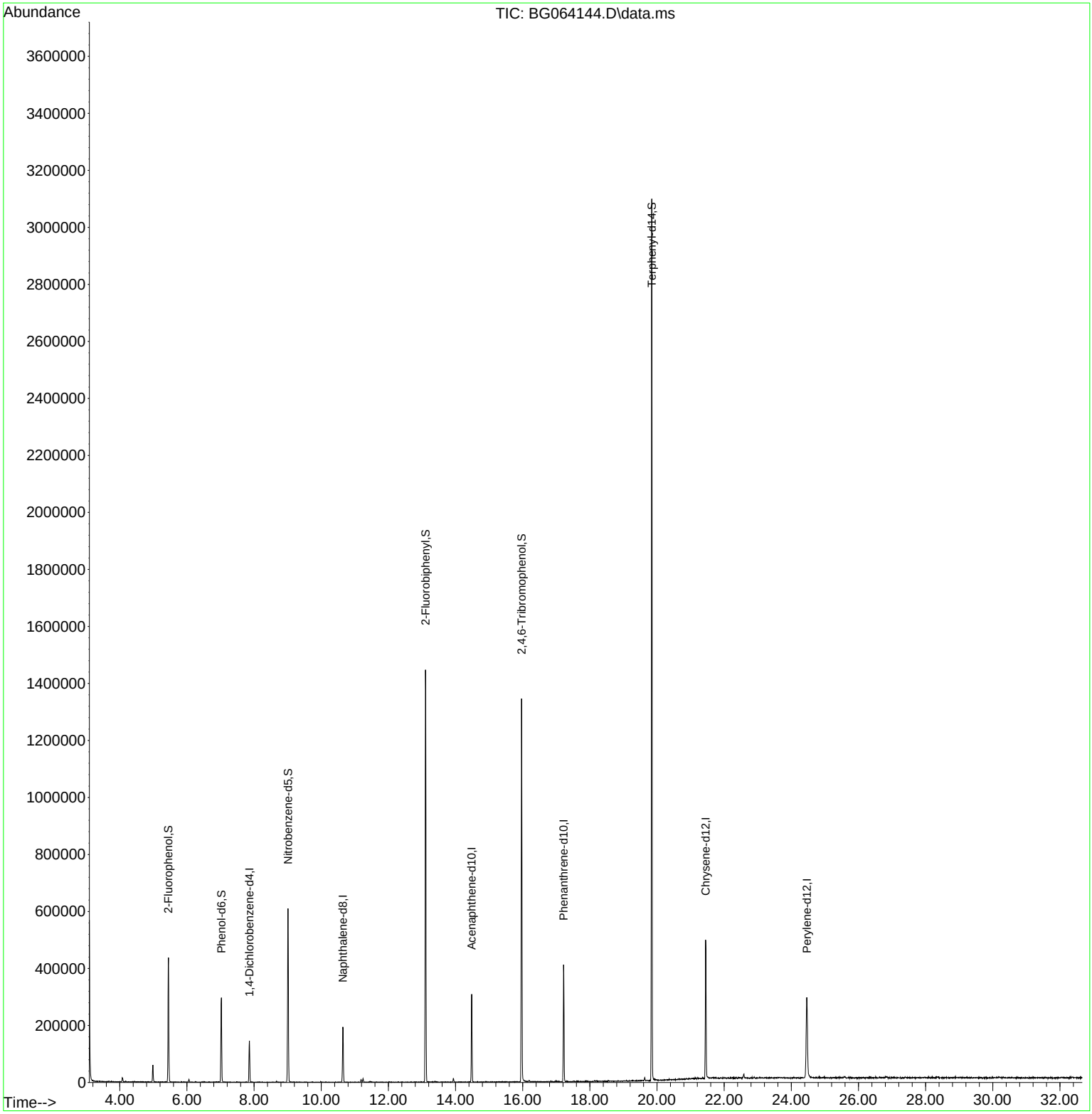
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.859	152	34102	20.000	ng	0.00
21) Naphthalene-d8	10.644	136	146359	20.000	ng	-0.01
39) Acenaphthene-d10	14.481	164	99405	20.000	ng	0.00
64) Phenanthrene-d10	17.219	188	239679	20.000	ng	-0.01
76) Chrysene-d12	21.449	240	275927	20.000	ng	-0.01
86) Perylene-d12	24.463	264	287353	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	168794	77.287	ng	0.00
7) Phenol-d6	7.025	99	140285	47.217	ng	0.00
23) Nitrobenzene-d5	9.011	82	315012	118.942	ng	0.00
42) 2,4,6-Tribromophenol	15.967	330	219406	198.565	ng	0.00
45) 2-Fluorobiphenyl	13.106	172	696984	106.427	ng	-0.01
79) Terphenyl-d14	19.845	244	1409042	103.255	ng	0.00
Target Compounds						Qvalue

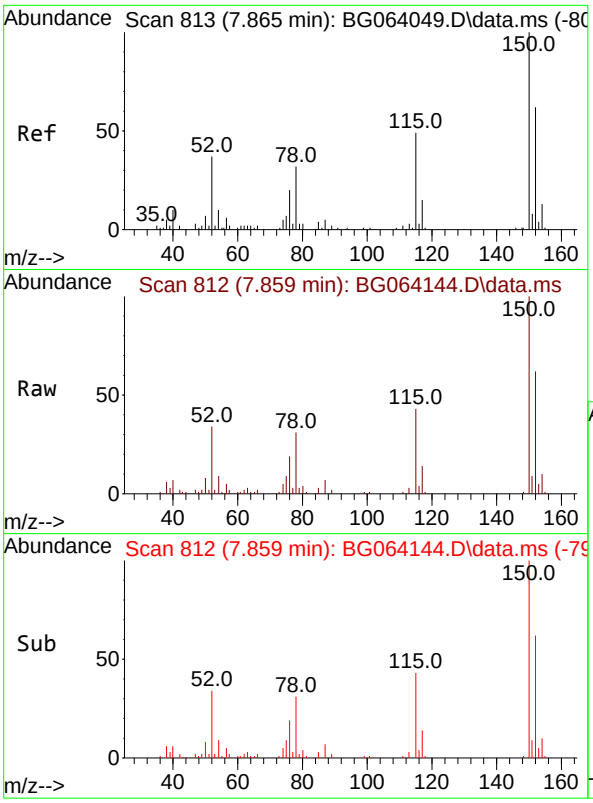
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064144.D
Acq On : 1 Apr 2025 21:06
Operator : RC/JU
Sample : Q1664-22
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Quant Time: Apr 02 01:36:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



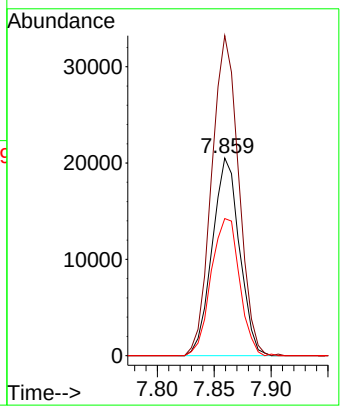


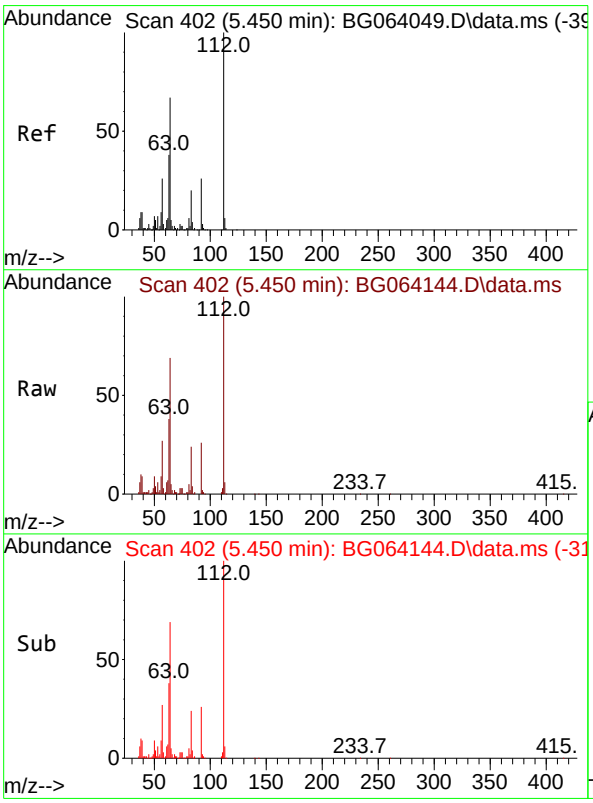
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.859 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:152 Resp: 34102

Ion	Ratio	Lower	Upper
152	100		
150	161.9	129.2	193.8
115	69.4	63.0	94.6

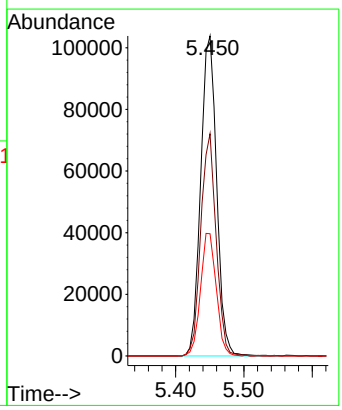


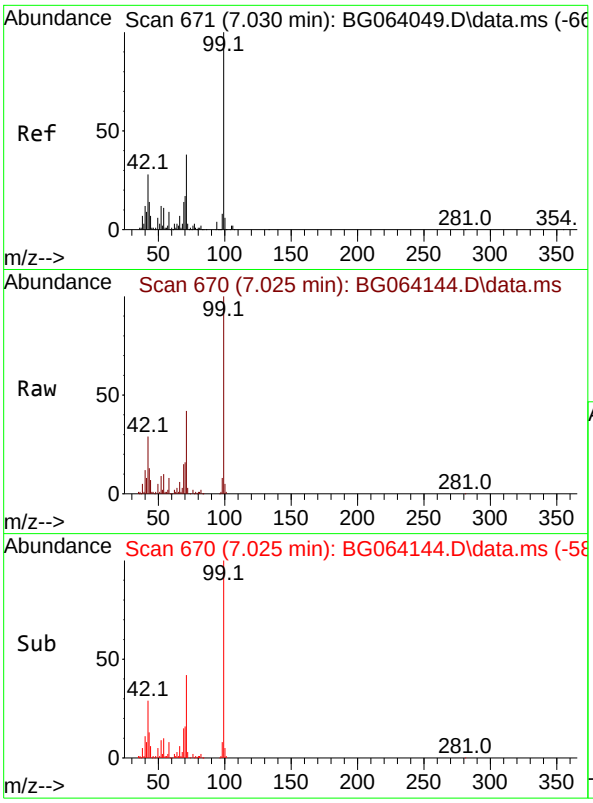


#5
2-Fluorophenol
Concen: 77.287 ng
RT: 5.450 min Scan# 402
Delta R.T. 0.000 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:112 Resp: 168794

Ion	Ratio	Lower	Upper
112	100		
64	69.5	53.7	80.5
63	38.2	30.2	45.4



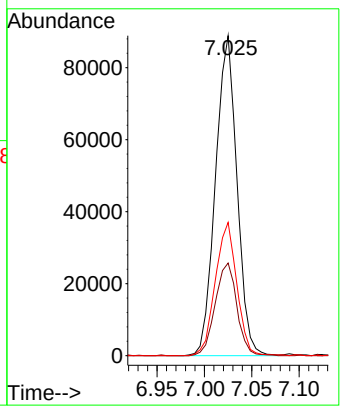


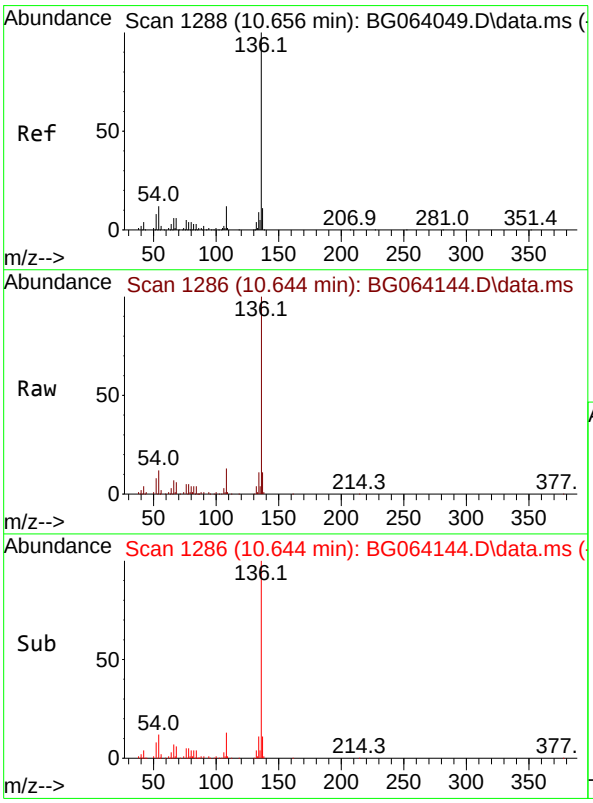
#7
Phenol-d6
Concen: 47.217 ng
RT: 7.025 min Scan# 6
Delta R.T. -0.005 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion: 99 Resp: 140285

Ion	Ratio	Lower	Upper
99	100		
42	28.9	22.7	34.1
71	41.7	30.6	46.0

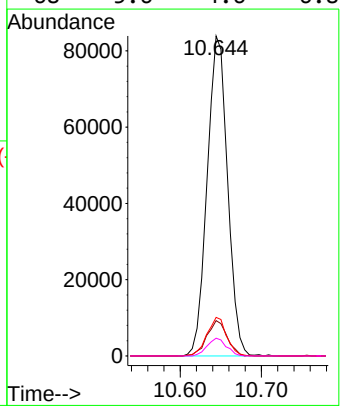


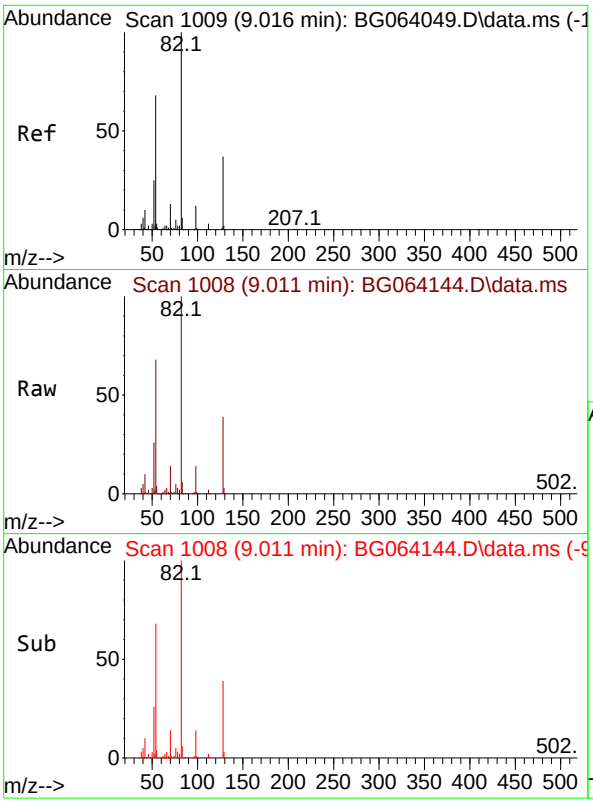


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.644 min Scan# 1286
Delta R.T. -0.012 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:136 Resp: 146359

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.5	12.7
54	12.0	9.9	14.9
68	5.6	4.6	6.8



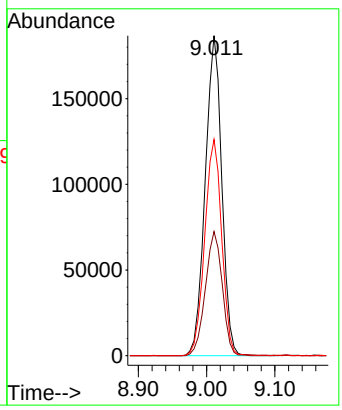


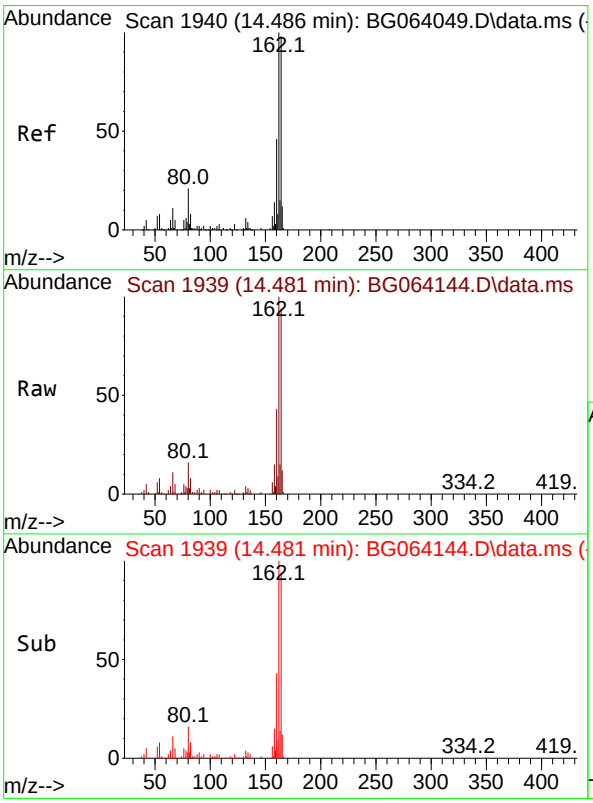
#23
Nitrobenzene-d5
Concen: 118.942 ng
RT: 9.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion: 82 Resp: 315012

Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.0	45.0
54	67.6	54.7	82.1

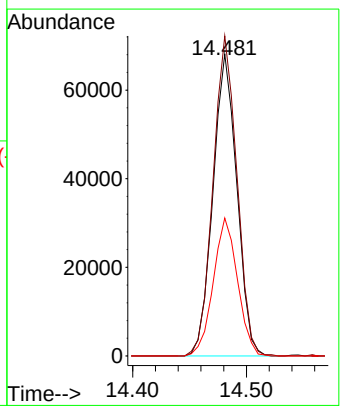


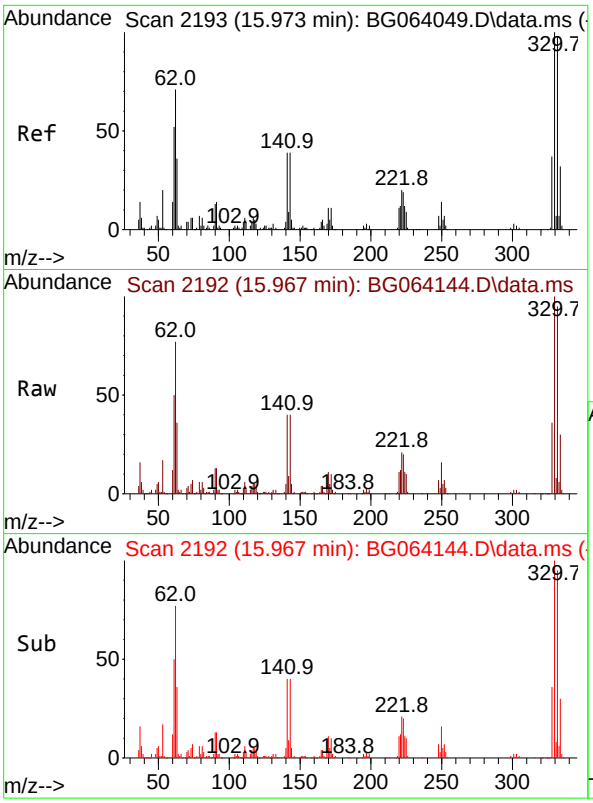


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.481 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:164 Resp: 99405

Ion	Ratio	Lower	Upper
164	100		
162	106.0	81.4	122.0
160	45.7	37.0	55.6



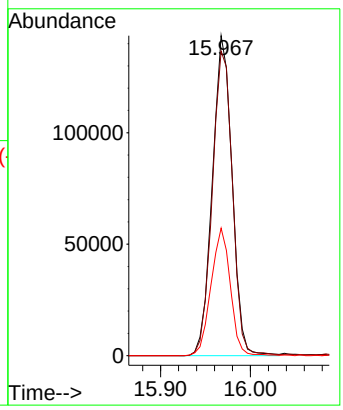


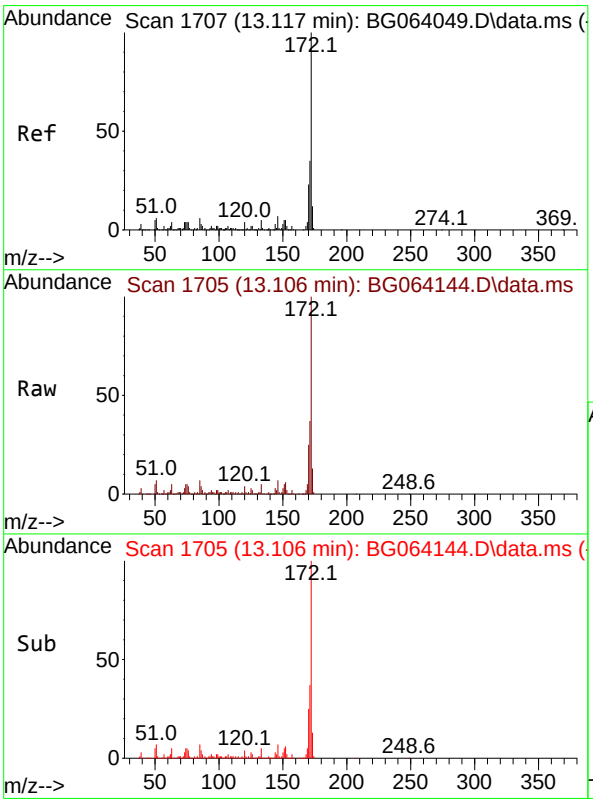
#42
2,4,6-Tribromophenol
Concen: 198.565 ng
RT: 15.967 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:330 Resp: 219406

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.7	115.1
141	39.0	29.7	44.5

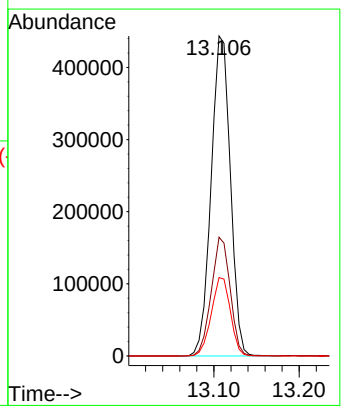


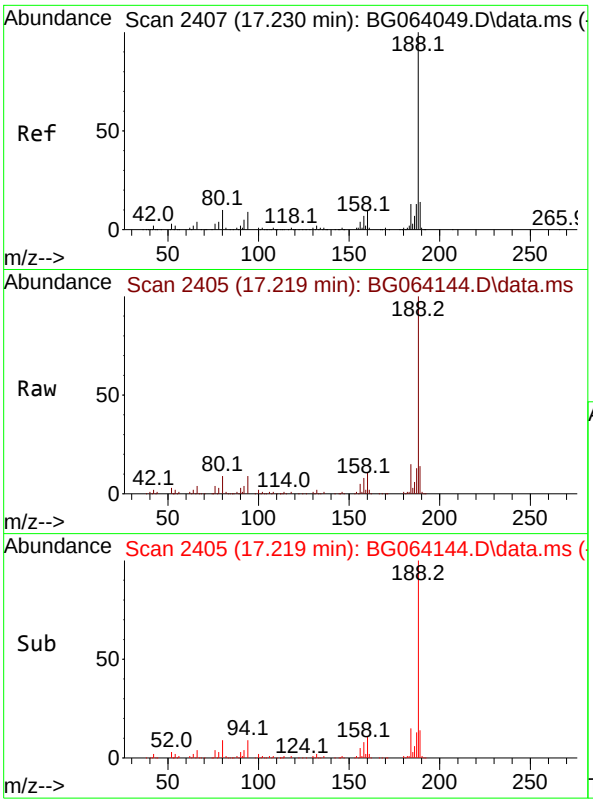


#45
2-Fluorobiphenyl
Concen: 106.427 ng
RT: 13.106 min Scan# 1705
Delta R.T. -0.011 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:172 Resp: 696984

Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.0	42.0
170	24.5	18.7	28.1



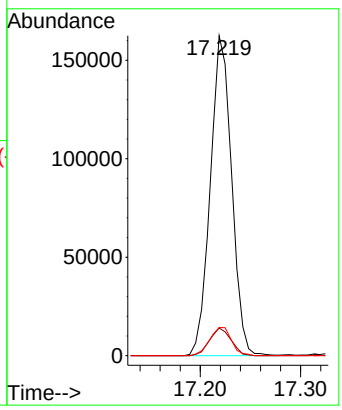


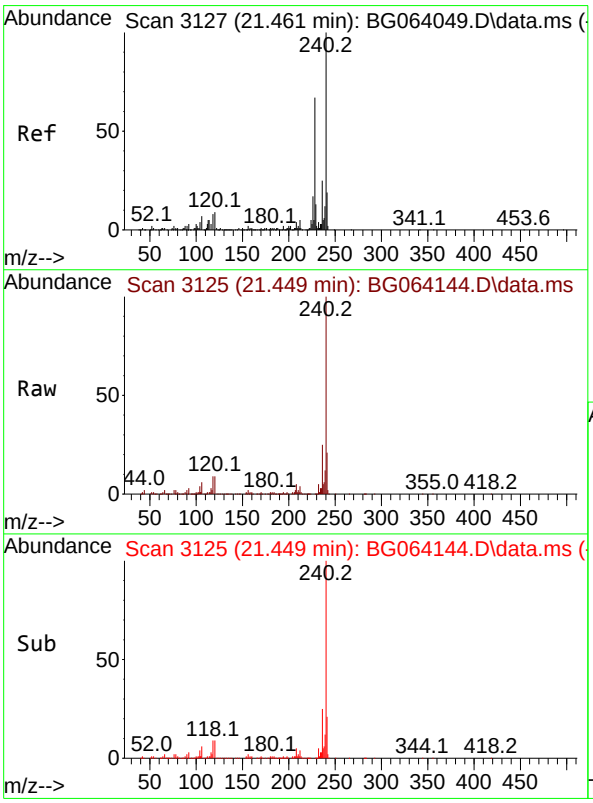
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.219 min Scan# 24
Delta R.T. -0.011 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:188 Resp: 239679

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.9	10.3
80	8.8	8.1	12.1

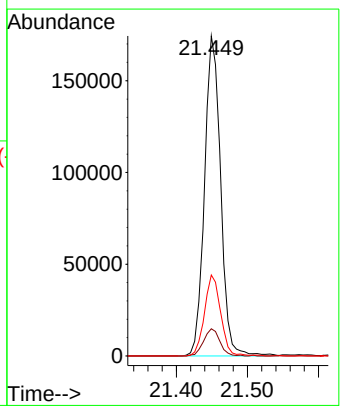


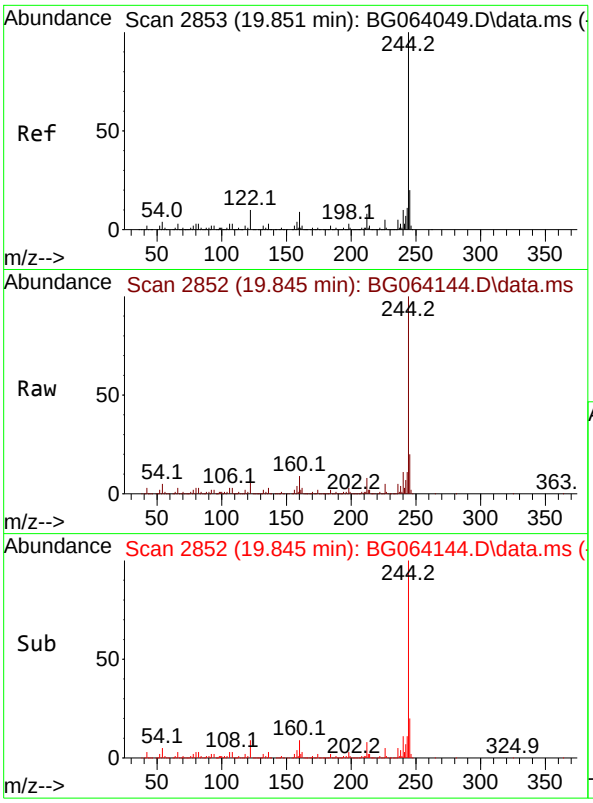


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.449 min Scan# 3125
Delta R.T. -0.011 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:240 Resp: 275927

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.2	10.8
236	25.3	20.2	30.2



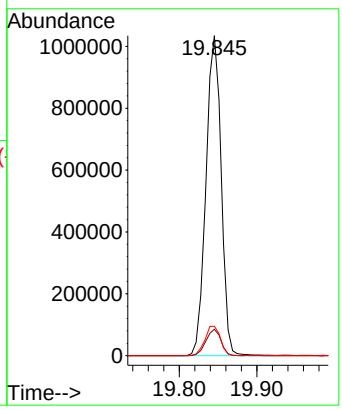


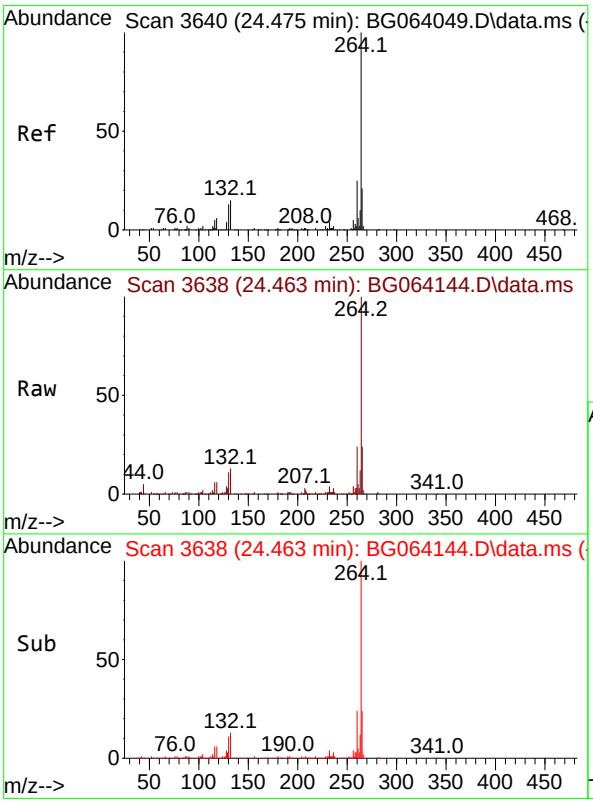
#79
Terphenyl-d14
Concen: 103.255 ng
RT: 19.845 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-008-01

Tgt Ion:244 Resp: 1409042

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.4
122	9.2	8.0	12.0

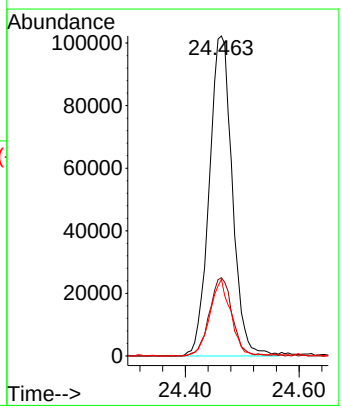




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.463 min Scan# 3638
Delta R.T. -0.011 min
Lab File: BG064144.D
Acq: 1 Apr 2025 21:06

Tgt Ion:264 Resp: 287353

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.6	29.4
265	24.0	16.6	25.0



CALIBRATION SUMMARY

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064045.D 5 =BG064046.D 10 =BG064047.D 20 =BG064048.D 40 =BG064049.D 50 =BG064050.D 60 =BG064051.D 80 =BG0640
52.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.598	0.605	0.624	0.585	0.559	0.539	0.554	0.580	5.31
3)		Pyridine		1.450	1.445	1.452	1.573	1.338	1.376	1.248	1.412	7.30
4)		n-Nitrosodimet...		0.892	0.976	1.017	1.064	0.996	1.047	1.068	1.009	6.16
5)	S	2-Fluorophenol		1.165	1.240	1.330	1.350	1.259	1.318	1.304	1.281	5.00
6)		Aniline		1.593	1.670	1.825	1.820	1.642	1.748	1.671	1.710	5.24
7)	S	Phenol-d6		1.580	1.631	1.794	1.848	1.703	1.839	1.803	1.742	6.09
8)		2-Chlorophenol		1.262	1.337	1.412	1.446	1.333	1.420	1.420	1.376	4.80
9)		Benzaldehyde		1.111	1.122	1.133	1.003	0.860	0.850		1.013	12.94
10)	C	Phenol		1.590	1.693	1.826	1.881	1.752	1.900	1.846	1.784	6.30
11)		bis(2-Chloroet...		1.375	1.444	1.424	1.415	1.322	1.418	1.394	1.399	2.88
12)		1,3-Dichlorobe...		1.523	1.539	1.501	1.546	1.438	1.519	1.508	1.511	2.36
13)	C	1,4-Dichlorobe...		1.548	1.546	1.607	1.592	1.478	1.536	1.532	1.548	2.72
14)		1,2-Dichlorobe...		1.488	1.464	1.543	1.519	1.416	1.525	1.497	1.493	2.88
15)		Benzyl Alcohol		1.115	1.249	1.343	1.436	1.358	1.467	1.457	1.346	9.50
16)		2,2'-oxybis(1-...		3.064	3.024	3.209	3.282	2.996	3.218	3.222	3.145	3.61
17)		2-Methylphenol		1.015	1.116	1.177	1.268	1.171	1.269	1.271	1.184	8.11
18)		Hexachloroethane		0.489	0.519	0.520	0.577	0.526	0.581	0.580	0.542	6.88
19)	P	n-Nitroso-di-n...	1.146	1.095	1.157	1.282	1.323	1.189	1.322	1.268	1.223	7.13
20)		3+4-Methylphenols		1.402	1.518	1.638	1.706	1.612	1.804	1.729	1.630	8.34
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.522	0.525	0.580	0.563	0.546	0.561	0.543	0.548	3.82
23)	S	Nitrobenzene-d5		0.290	0.300	0.360	0.385	0.390	0.400	0.409	0.362	13.32
24)		Nitrobenzene		0.298	0.320	0.390	0.397	0.396	0.409	0.409	0.374	12.20
25)		Isophorone		0.709	0.672	0.744	0.745	0.717	0.757	0.727	0.724	3.93
26)	C	2-Nitrophenol		0.067	0.079	0.096	0.122	0.130	0.141	0.147	0.112	28.03
27)		2,4-Dimethylph...		0.194	0.187	0.221	0.228	0.221	0.239	0.229	0.217	8.82
28)		bis(2-Chloroet...		0.424	0.417	0.468	0.443	0.427	0.449	0.445	0.439	4.03
29)	C	2,4-Dichloroph...		0.222	0.239	0.281	0.287	0.290	0.301	0.298	0.274	11.22
30)		1,2,4-Trichlor...		0.323	0.317	0.343	0.332	0.336	0.335	0.332	0.331	2.54
31)		Naphthalene		1.078	1.043	1.114	1.079	1.061	1.097	1.077	1.078	2.13
32)		Benzoic acid			0.078	0.139	0.172	0.191	0.217	0.220	0.170	31.75
33)		4-Chloroaniline		0.355	0.364	0.407	0.416	0.394	0.419	0.404	0.394	6.46
34)	C	Hexachlorobuta...		0.208	0.213	0.225	0.219	0.216	0.220	0.218	0.217	2.55
35)		Caprolactam		0.086	0.091	0.112	0.110	0.113	0.112	0.111	0.105	10.78
36)	C	4-Chloro-3-met...		0.293	0.330	0.379	0.373	0.373	0.390	0.376	0.359	9.67
37)		2-Methylnaphth...		0.775	0.727	0.788	0.763	0.746	0.779	0.751	0.761	2.80
38)		1-Methylnaphth...		0.745	0.728	0.771	0.753	0.724	0.768	0.733	0.746	2.53

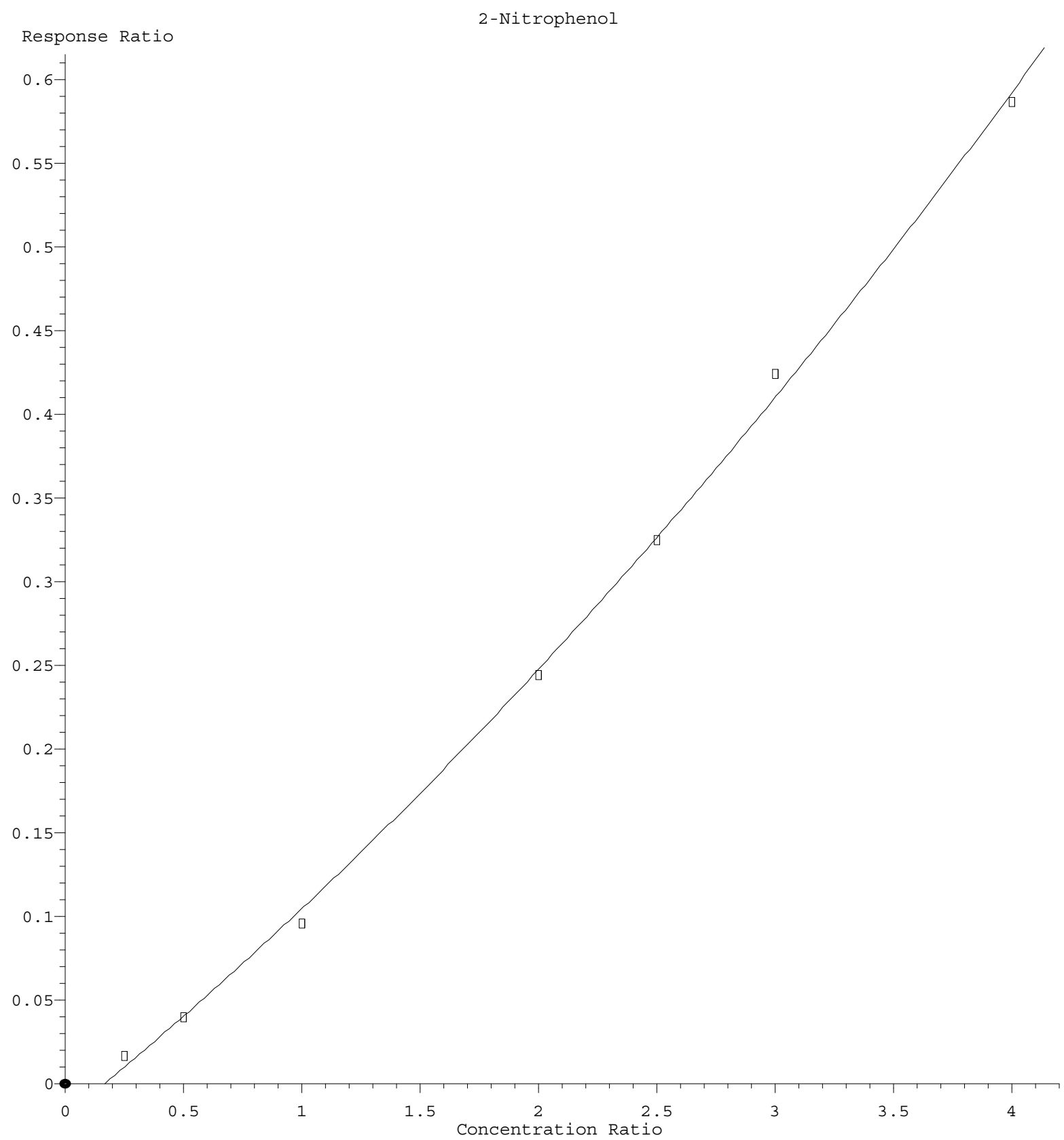
Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.547	0.584	0.592	0.586	0.560	0.562	0.566	0.571	2.88
41)	P	Hexachlorocycl...	0.123	0.128	0.161	0.175	0.175	0.180	0.183	0.161	15.44
42)	S	2,4,6-Tribromo...	0.166	0.191	0.226	0.241	0.241	0.250	0.241	0.222	14.12
43)	C	2,4,6-Trichlor...	0.268	0.293	0.341	0.358	0.362	0.368	0.366	0.337	11.89
44)		2,4,5-Trichlor...	0.284	0.330	0.381	0.406	0.396	0.407	0.413	0.374	12.98
45)	S	2-Fluorobiphenyl	1.369	1.310	1.359	1.368	1.283	1.284	1.251	1.318	3.62
46)		1,1'-Biphenyl	1.506	1.499	1.572	1.538	1.475	1.512	1.475	1.511	2.29
47)		2-Chloronaphth...	1.086	1.075	1.100	1.127	1.102	1.121	1.103	1.102	1.63
48)		2-Nitroaniline	0.197	0.231	0.277	0.348	0.368	0.396	0.408	0.318	26.14
49)		Acenaphthylene	1.714	1.677	1.793	1.789	1.735	1.777	1.717	1.743	2.53
50)		Dimethylphthalate	1.432	1.401	1.559	1.520	1.463	1.508	1.452	1.476	3.73
51)		2,6-Dinitrotol...	0.158	0.200	0.262	0.292	0.300	0.307	0.308	0.261	22.73
52)	C	Acenaphthene	1.165	1.148	1.231	1.187	1.159	1.171	1.128	1.170	2.77
53)		3-Nitroaniline	0.190	0.228	0.298	0.316	0.313	0.329	0.323	0.285	18.96
54)	P	2,4-Dinitrophenol		0.066	0.084	0.100	0.111	0.121	0.129	0.102	23.25
55)		Dibenzofuran	1.926	1.881	1.976	1.941	1.853	1.864	1.826	1.895	2.84
56)	P	4-Nitrophenol		0.164	0.200	0.257	0.280	0.270	0.265	0.239	19.47
57)		2,4-Dinitrotol...	0.225	0.255	0.344	0.404	0.418	0.426	0.424	0.357	23.78
58)		Fluorene	1.555	1.450	1.542	1.478	1.452	1.460	1.395	1.476	3.79
59)		2,3,4,6-Tetrac...	0.262	0.326	0.388	0.395	0.385	0.402	0.393	0.365	14.21
60)		Diethylphthalate	1.496	1.501	1.709	1.669	1.624	1.637	1.584	1.603	5.06
61)		4-Chlorophenyl...	0.754	0.744	0.788	0.735	0.712	0.721	0.681	0.733	4.61
62)		4-Nitroaniline	0.213	0.263	0.313	0.345	0.351	0.339	0.333	0.308	16.67
63)		Azobenzene	1.734	1.645	1.785	1.758	1.700	1.705	1.644	1.710	3.13
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.050	0.059	0.075	0.082	0.092	0.096	0.076	24.31
66)	c	n-Nitrosodiphe...	0.558	0.551	0.582	0.578	0.558	0.571	0.565	0.566	2.06
67)		4-Bromophenyl-...	0.186	0.195	0.212	0.210	0.200	0.217	0.213	0.205	5.61
68)		Hexachlorobenzene	0.227	0.226	0.236	0.229	0.228	0.229	0.230	0.229	1.45
69)		Atrazine	0.175	0.190	0.179	0.160	0.129			0.167	14.34
70)	C	Pentachlorophenol		0.105	0.128	0.149	0.151	0.159	0.163	0.142	15.58
71)		Phenanthrene	1.084	1.034	1.110	1.080	1.054	1.059	1.047	1.067	2.44
72)		Anthracene	1.024	1.041	1.104	1.085	1.055	1.065	1.051	1.061	2.55
73)		Carbazole	0.949	0.988	1.020	1.027	1.007	0.986	0.956	0.990	3.02
74)		Di-n-butylphth...	0.932	1.095	1.213	1.257	1.236	1.219	1.208	1.166	9.90
75)	C	Fluoranthene	1.272	1.315	1.336	1.318	1.298	1.243	1.221	1.286	3.31
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.221	0.400	0.238	0.313	0.195	0.299	0.271	0.277	24.80
78)		Pyrene	1.251	1.287	1.350	1.310	1.254	1.290	1.282	1.289	2.63
79)	S	Terphenyl-d14	1.011	1.024	1.062	0.999	0.944	0.957	0.927	0.989	4.88
80)		Butylbenzylpht...	0.285	0.331	0.405	0.465	0.473	0.503	0.502	0.423	20.44
81)		Benzo(a)anthra...	1.217	1.268	1.310	1.303	1.275	1.309	1.286	1.281	2.54
82)		3,3'-Dichlorob...	0.350	0.396	0.444	0.450	0.416	0.436	0.411	0.415	8.27
83)		Chrysene	1.281	1.233	1.308	1.306	1.263	1.301	1.252	1.278	2.29
84)		Bis(2-ethylhex...	0.504	0.582	0.685	0.757	0.751	0.789	0.782	0.693	15.90
85)	c	Di-n-octyl pht...		0.892	1.108	1.239	1.256	1.339	1.338	1.195	14.31

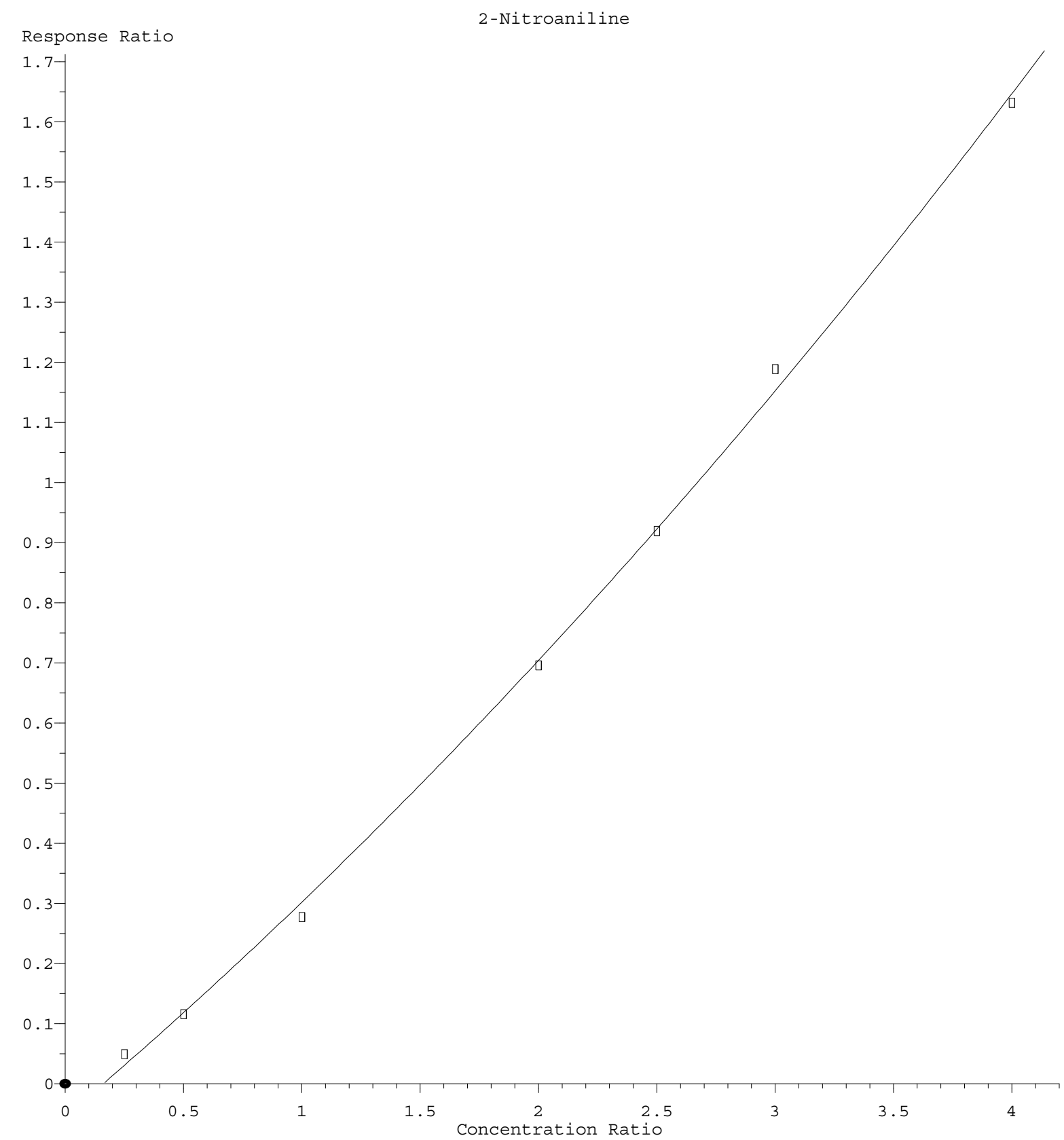
Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.223	1.232	1.408	1.376	1.354	1.381	1.394	1.338	5.80
88)		Benzo(b)fluora...	1.150	1.146	1.269	1.216	1.232	1.215	1.236	1.209	3.76
89)		Benzo(k)fluora...	1.111	1.189	1.281	1.255	1.205	1.234	1.215	1.213	4.49
90)	C	Benzo(a)pyrene	0.993	1.022	1.124	1.107	1.106	1.092	1.093	1.077	4.57
91)		Dibenzo(a,h)an...	1.029	1.036	1.151	1.133	1.134	1.123	1.160	1.109	4.86
92)		Benzo(g,h,i)pe...	1.049	1.093	1.208	1.152	1.146	1.155	1.168	1.139	4.58

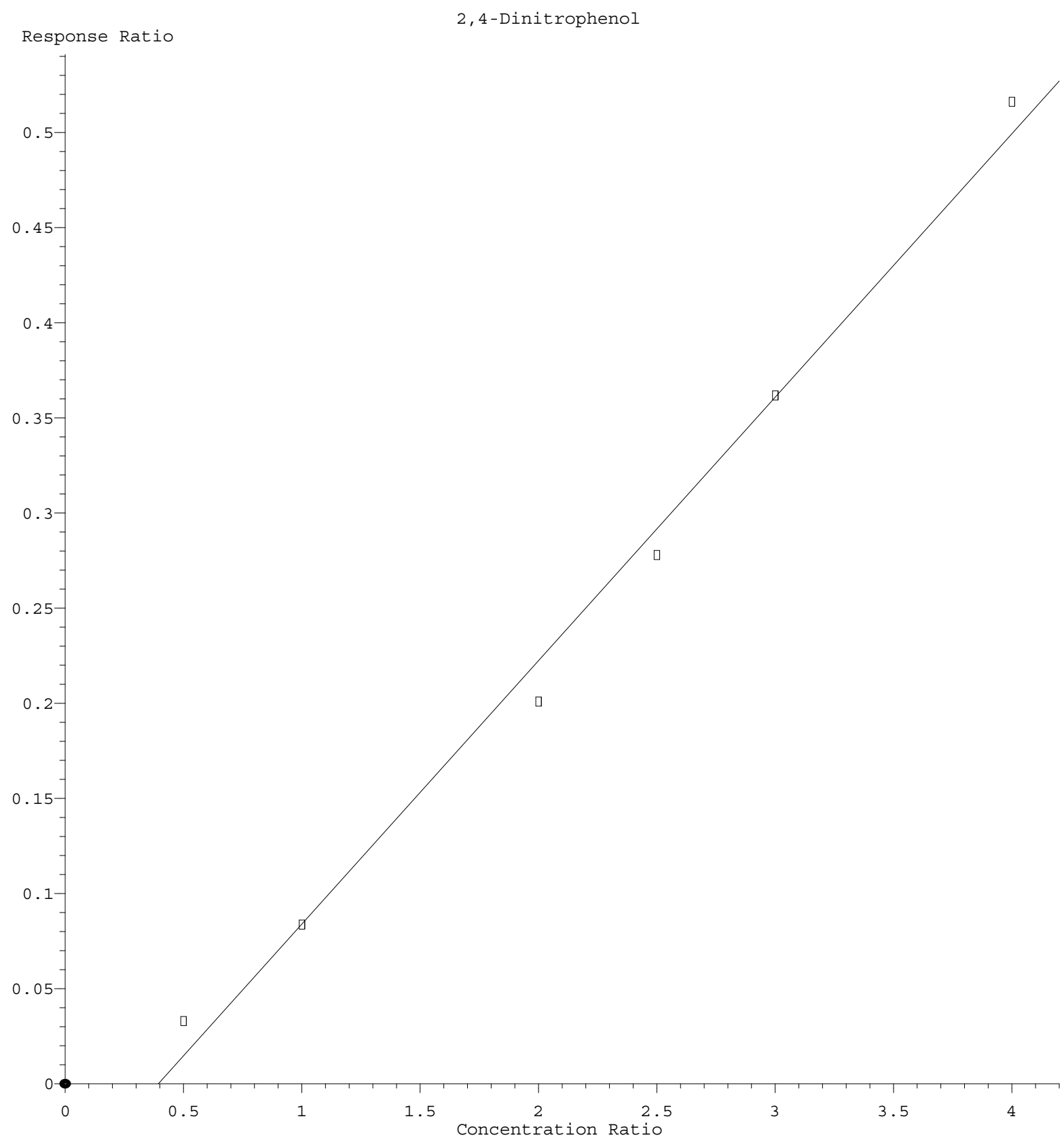
(#) = Out of Range



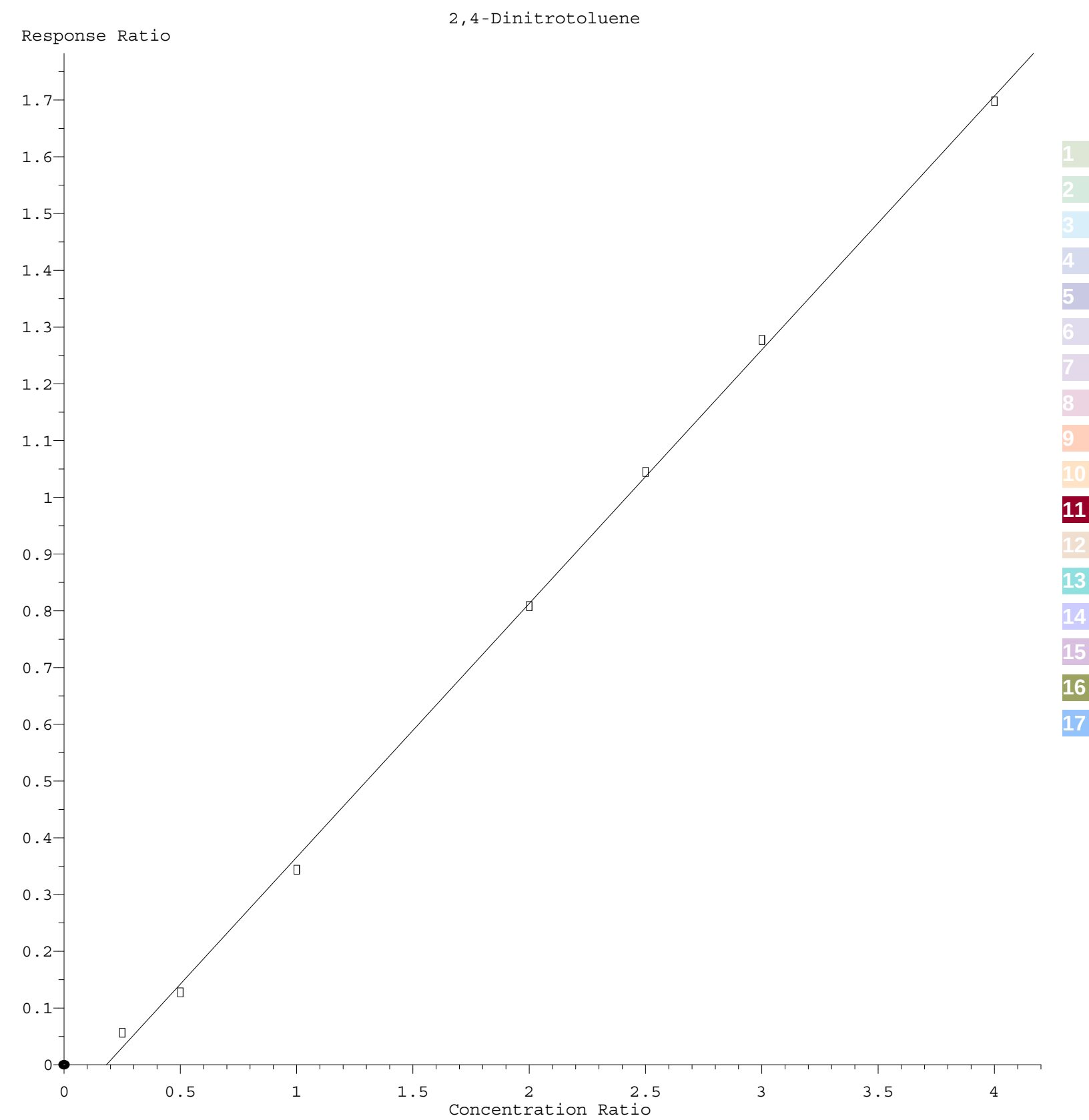
R = 9.766e-003 A*A + 1.137e-001 A - 1.893e-002
Coef of Det (r^2) = 0.998666 Curve Fit: Quadratic
Method: \\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025



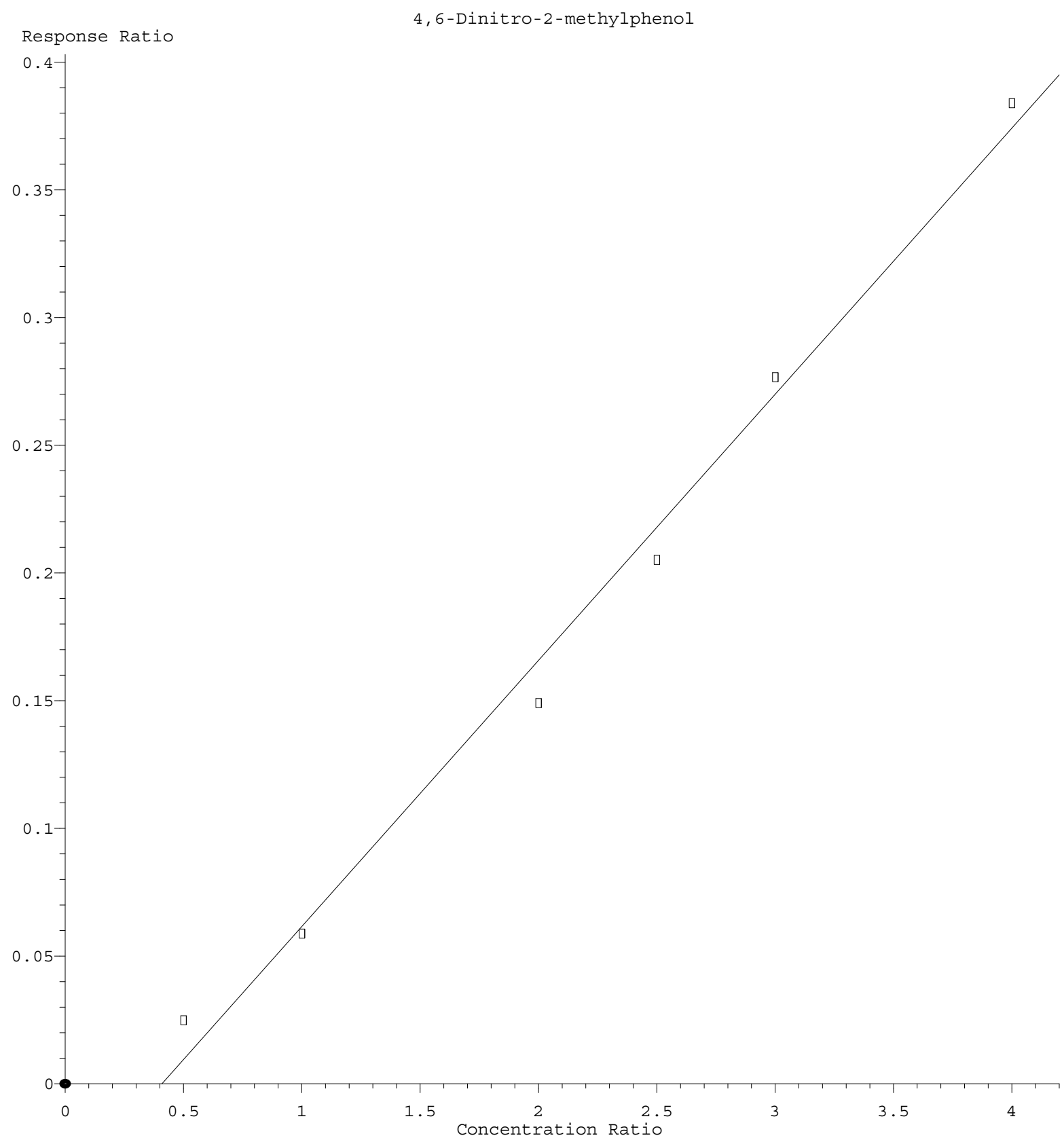
R = 2.299e-002 A*A + 3.333e-001 A - 5.414e-002
Coef of Det (r^2) = 0.998770 Curve Fit: Quadratic
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025



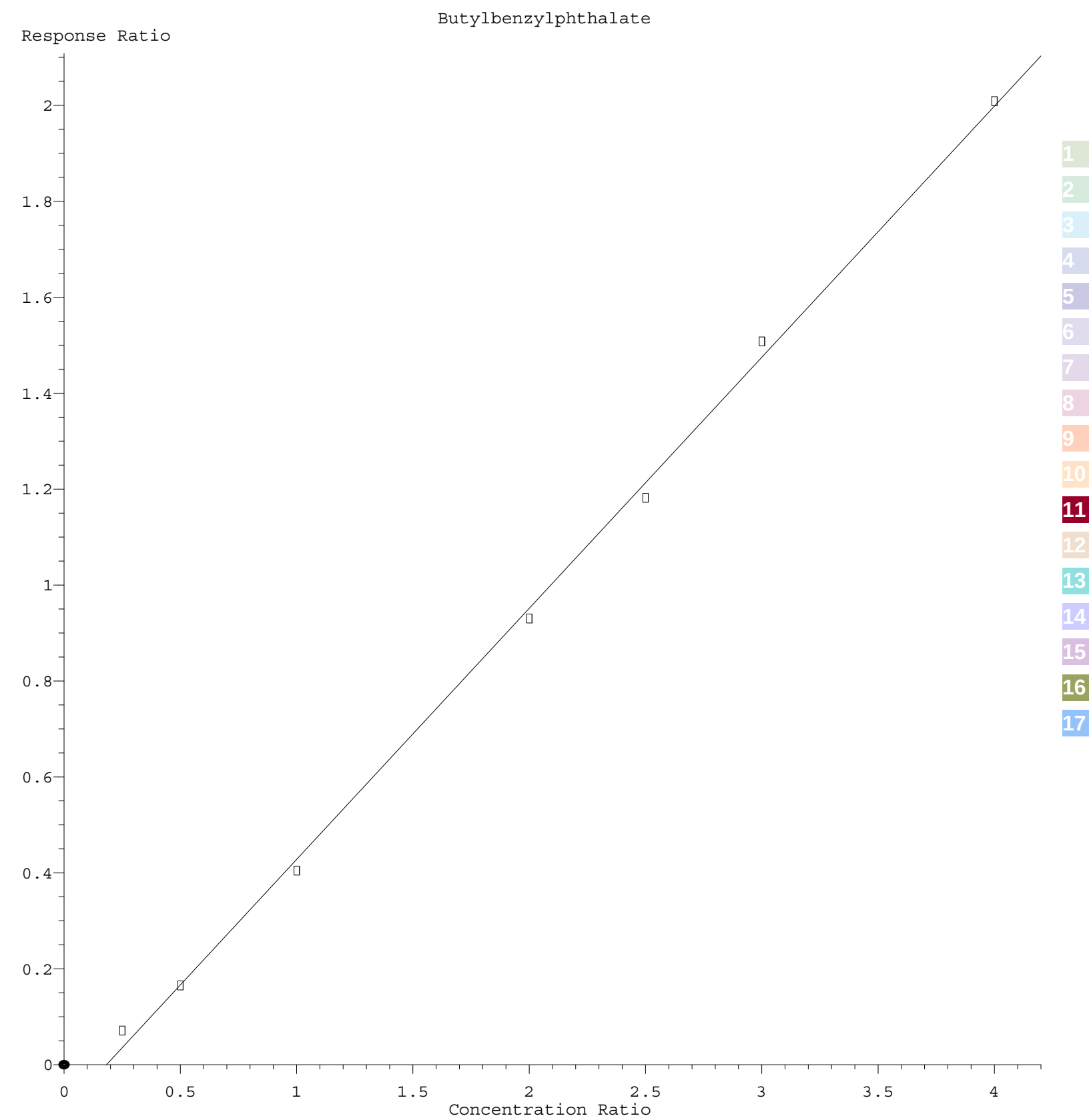
Response = 1.385e-001 * Amt - 5.459e-002
Coef of Det (r^2) = 0.992124 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025



Response = 4.472e-001 * Amt - 8.152e-002
Coef of Det (r^2) = 0.999194 Curve Fit: Linear
Method: \\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025



Response = 1.041e-001 * Amt - 4.259e-002
Coef of Det (r^2) = 0.990937 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025



Response = 5.234e-001 * Amt - 9.520e-002
Coef of Det (r^2) = 0.998592 Curve Fit: Linear
Method: C:\HPCHEM\1\METHODS\svoasrv\HPCHEM1\BNA G\Methods\8270-BG030525.M
Calibration Table Last Updated: Wed Mar 05 15:39:19 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064045.D
Acq On : 5 Mar 2025 9:02
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Quant Time: Mar 05 15:19:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

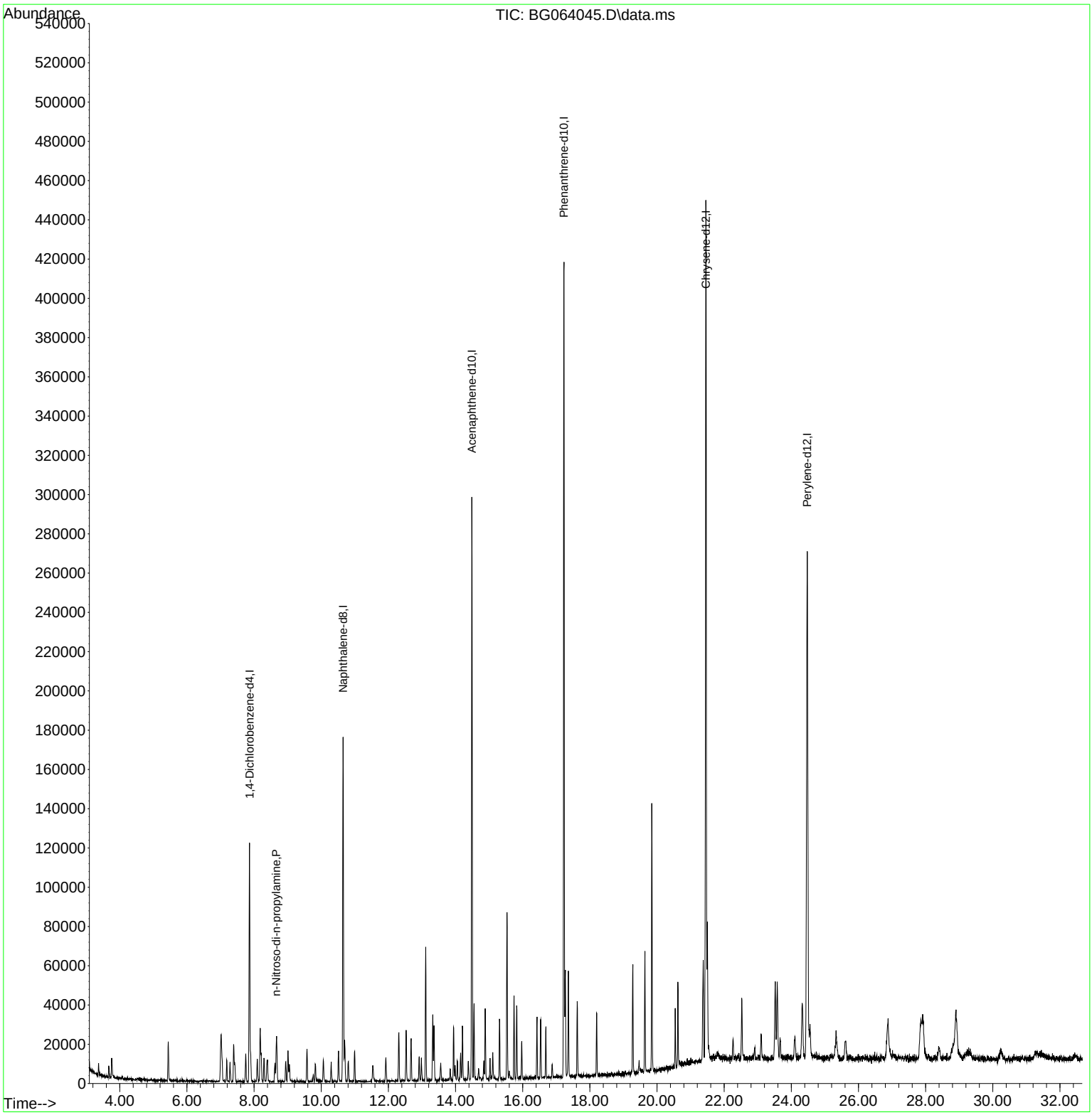
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.864	152	29138	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	131138	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	97001	20.000	ng	0.00
64) Phenanthrene-d10	17.229	188	240464	20.000	ng	0.00
76) Chrysene-d12	21.454	240	249925	20.000	ng	0.00
86) Perylene-d12	24.474	264	262700	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.663	70	4175	2.343	ng	# 90

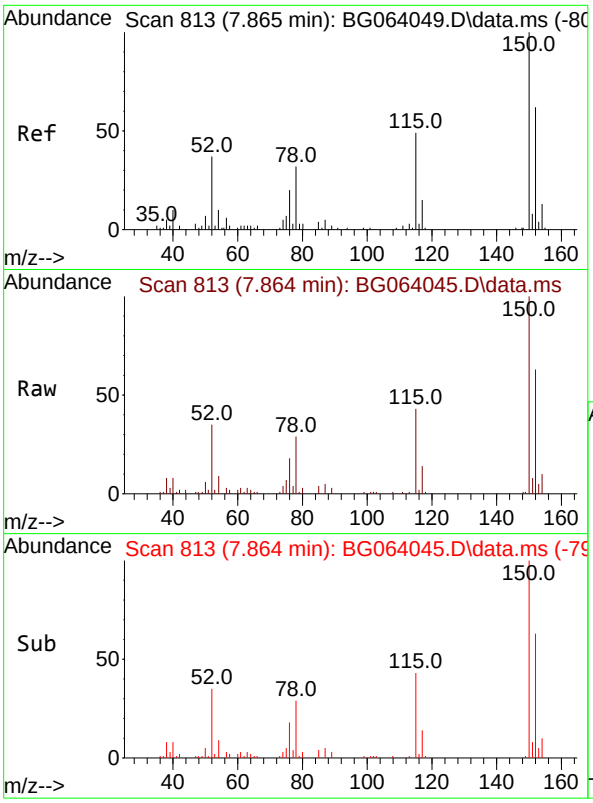
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064045.D
Acq On : 5 Mar 2025 9:02
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Quant Time: Mar 05 15:19:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration



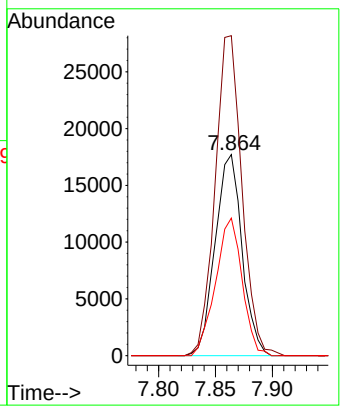


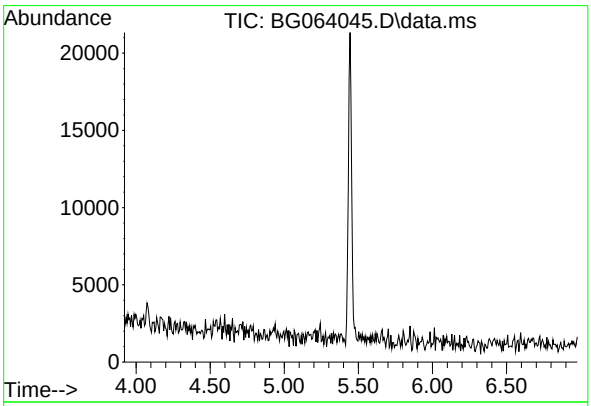
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 29138

Ion	Ratio	Lower	Upper
152	100		
150	159.1	129.2	193.8
115	68.4	63.0	94.6



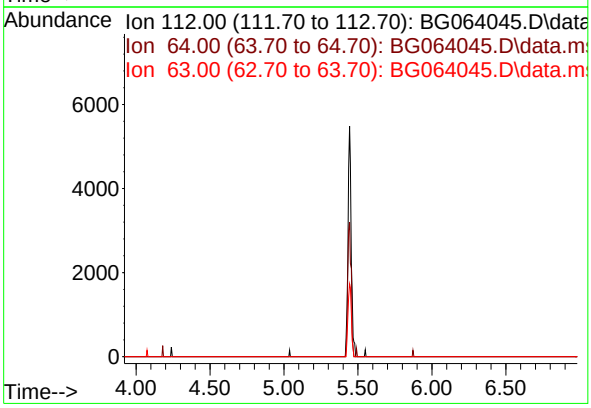


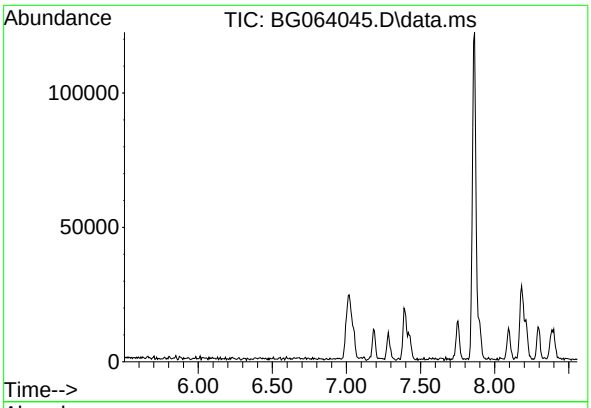
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.45 min

Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	67.1
63	37.8





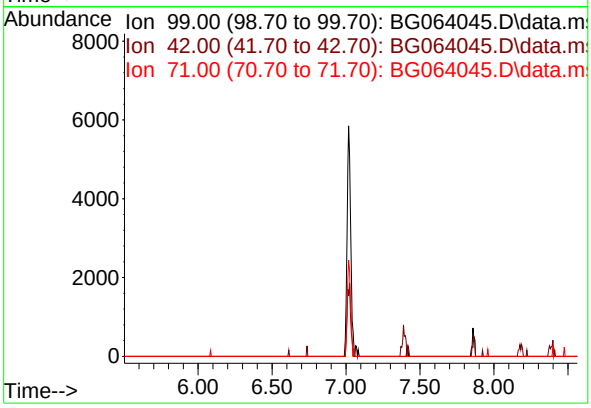
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 7.03 min

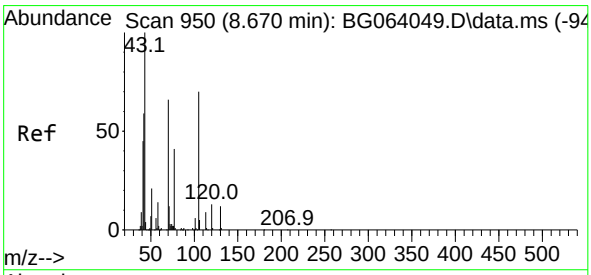
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	28.4
71	38.3

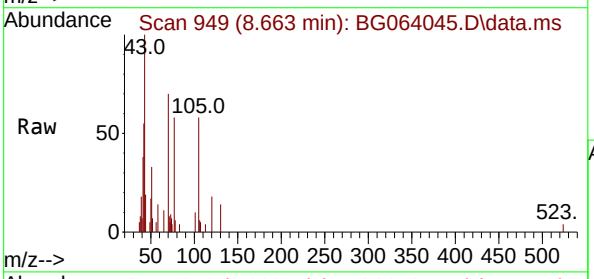


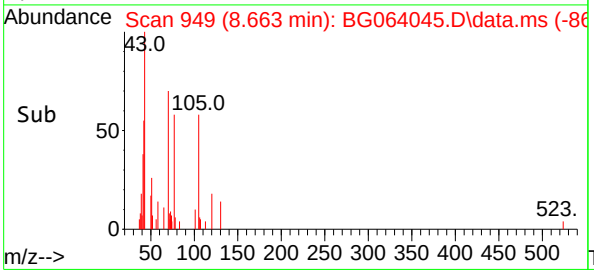


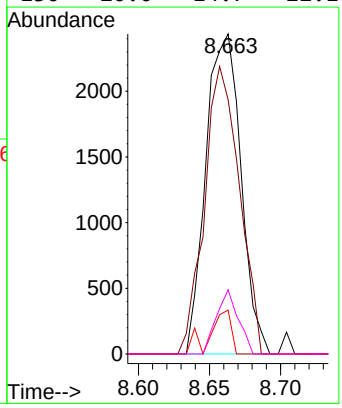
#19
n-Nitroso-di-n-propylamine
Concen: 2.343 ng
RT: 8.663 min Scan# 949
Delta R.T. -0.007 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

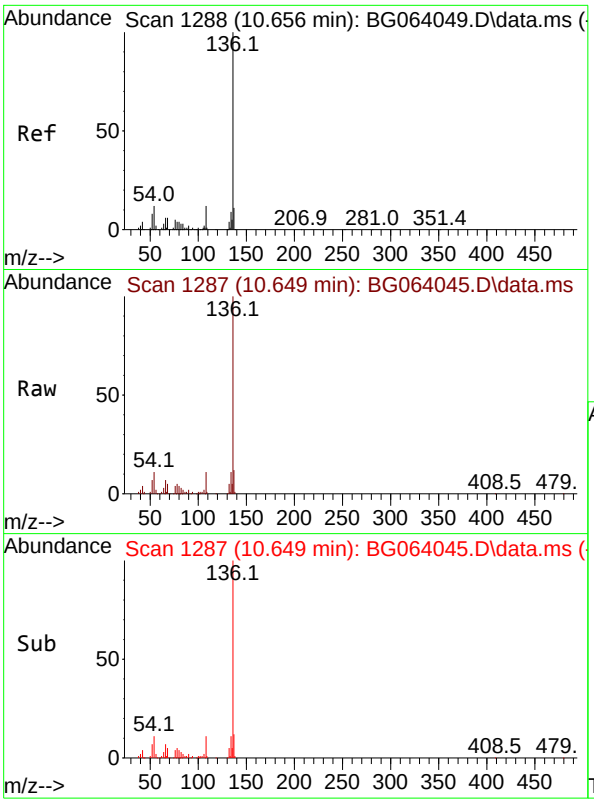
Tgt Ion: 70 Resp: 4175

Ion	Ratio	Lower	Upper
70	100		
42	79.5	72.1	108.1
101	13.7	7.2	10.8#
130	20.0	14.7	22.1







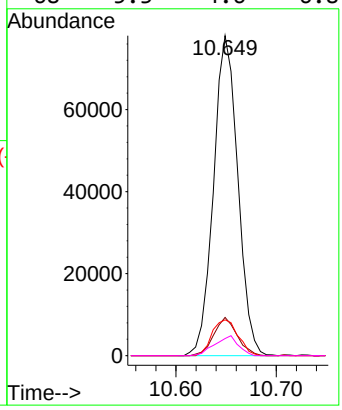


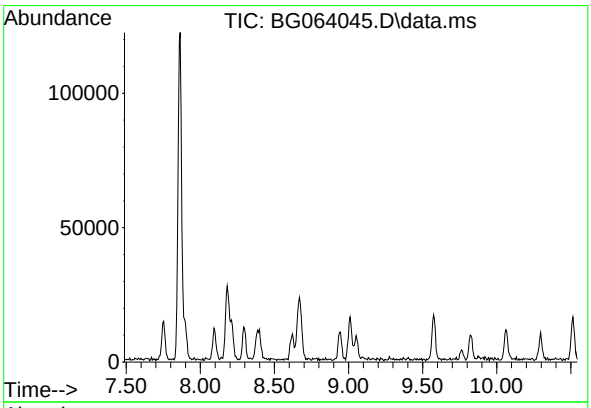
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 131138

Ion	Ratio	Lower	Upper
136	100		
137	11.9	8.5	12.7
54	11.2	9.9	14.9
68	5.3	4.6	6.8



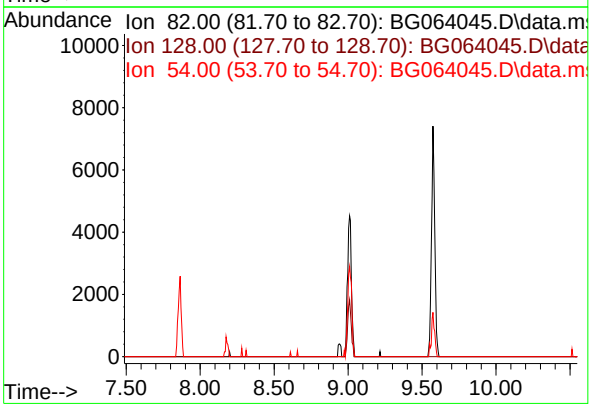


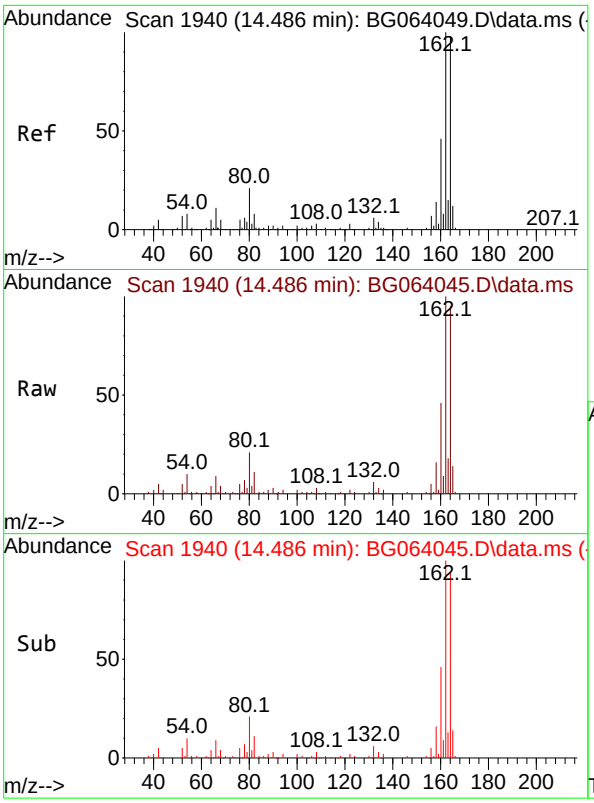
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 9.02 min

Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	37.5
54	68.4



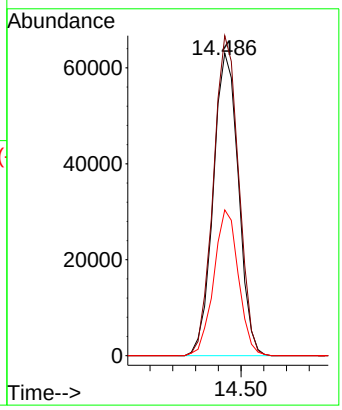


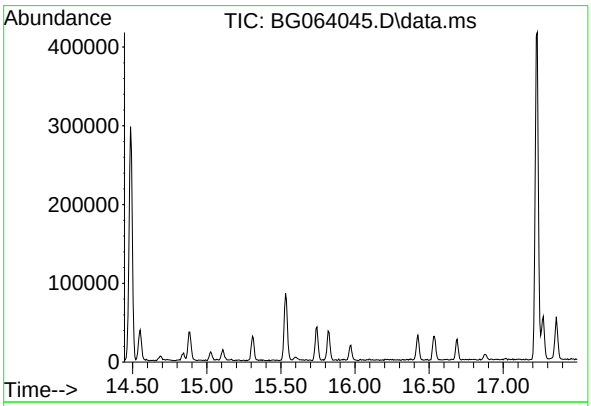
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 97001

Ion	Ratio	Lower	Upper
164	100		
162	105.8	81.4	122.0
160	48.2	37.0	55.6



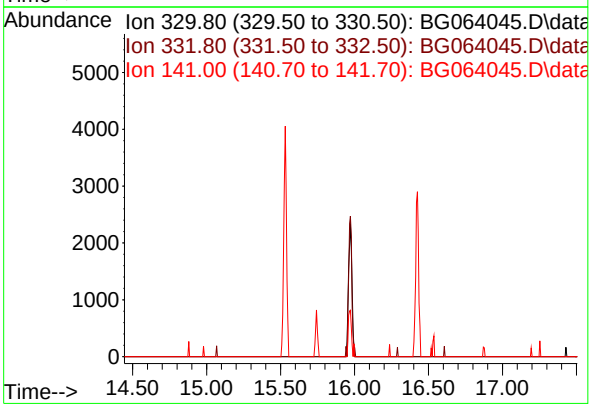


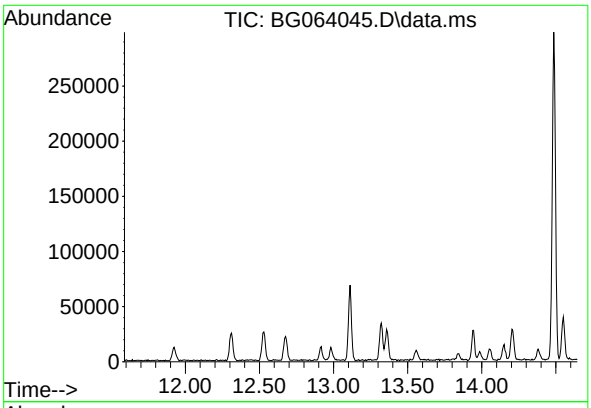
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.9
141	37.1





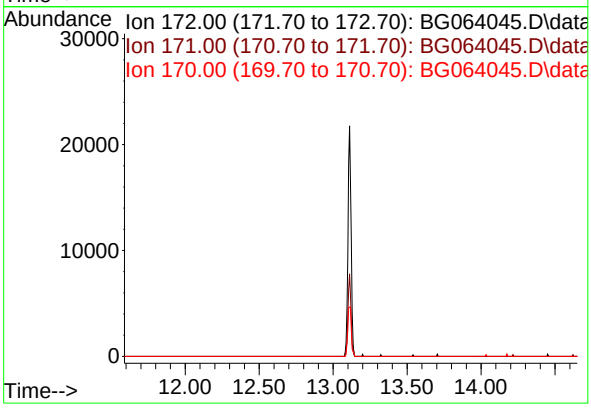
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.12 min

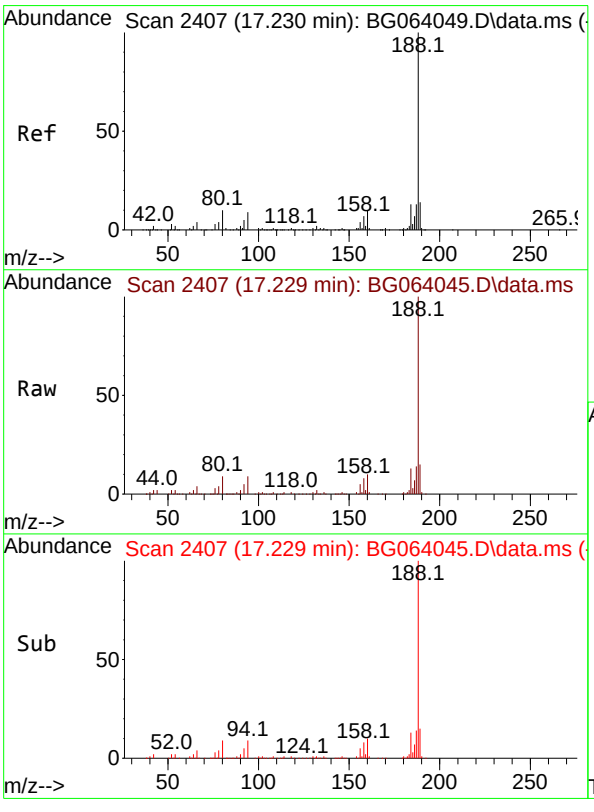
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	35.0
170	23.4

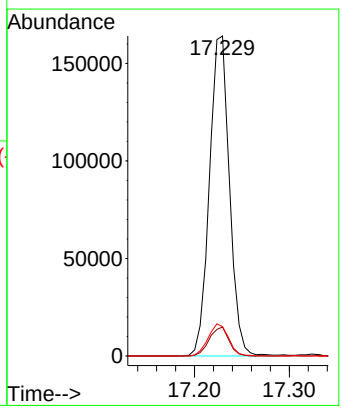


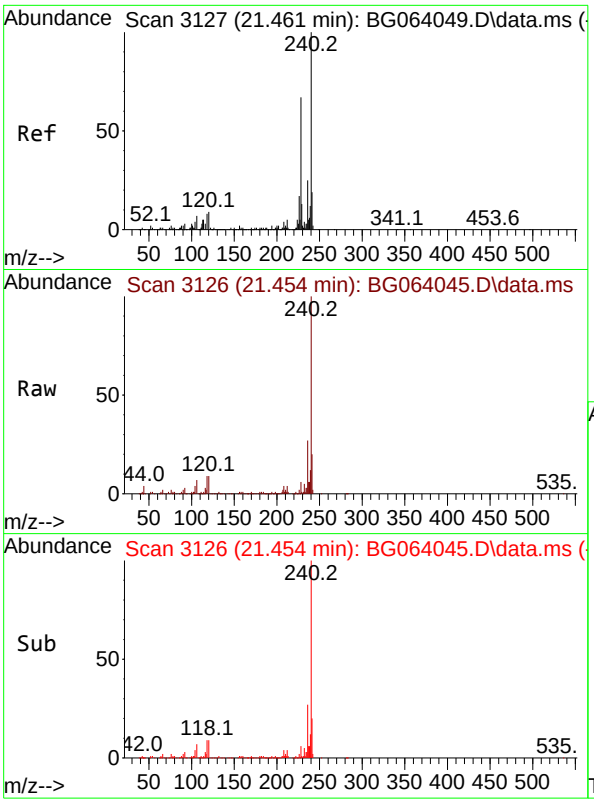


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.229 min Scan# 2407
Delta R.T. -0.001 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Tgt Ion:188 Resp: 240464

Ion	Ratio	Lower	Upper
188	100		
94	9.1	6.9	10.3
80	9.1	8.1	12.1



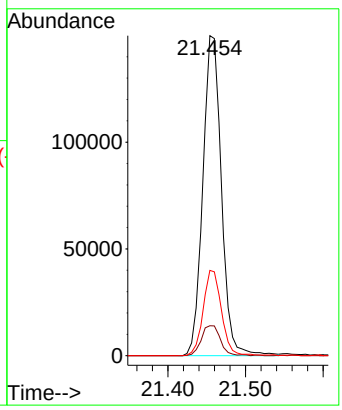


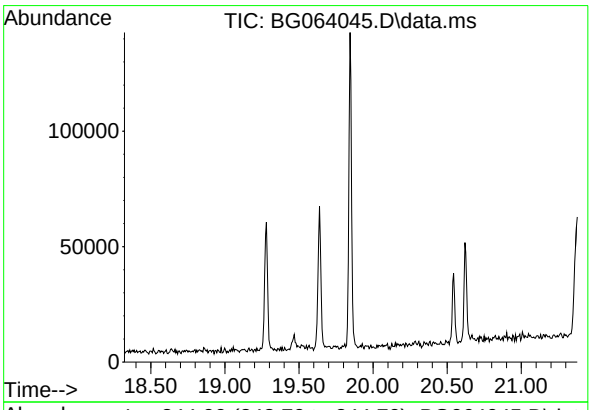
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 249925

Ion	Ratio	Lower	Upper
240	100		
120	9.3	7.2	10.8
236	26.6	20.2	30.2



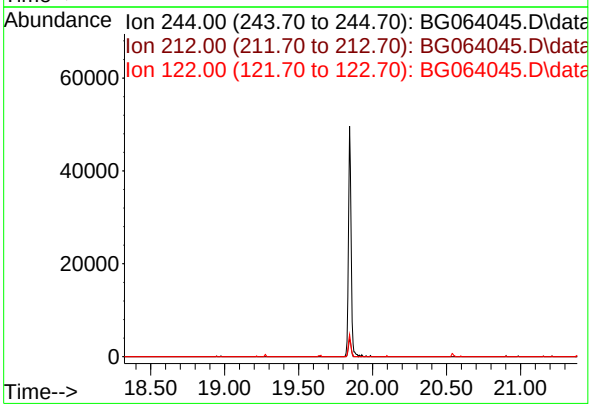


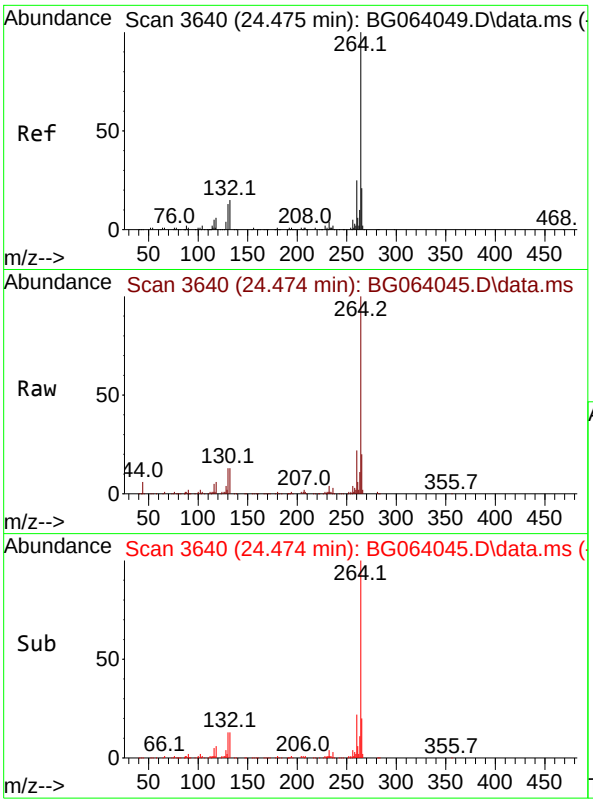
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.85 min

Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.8
122	10.0



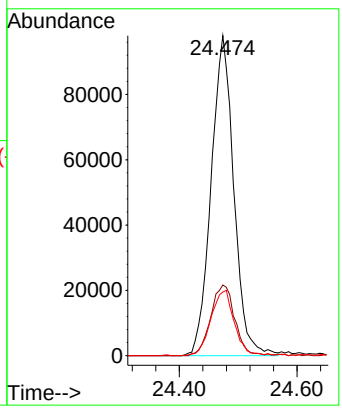


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.474 min Scan# 3
Delta R.T. -0.001 min
Lab File: BG064045.D
Acq: 5 Mar 2025 9:02

Instrument :
BNA_G
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 262700

Ion	Ratio	Lower	Upper
264	100		
260	22.1	19.6	29.4
265	19.9	16.6	25.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064046.D
Acq On : 5 Mar 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:20:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.865	152	33357	20.000	ng		0.00
21) Naphthalene-d8	10.650	136	142015	20.000	ng		0.00
39) Acenaphthene-d10	14.487	164	99722	20.000	ng		0.00
64) Phenanthrene-d10	17.225	188	234862	20.000	ng		0.00
76) Chrysene-d12	21.455	240	251570	20.000	ng		0.00
86) Perylene-d12	24.469	264	257404	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.450	112	19435	9.098	ng		0.00
7) Phenol-d6	7.025	99	26345	9.065	ng		0.00
23) Nitrobenzene-d5	9.011	82	20601	8.016	ng		0.00
42) 2,4,6-Tribromophenol	15.967	330	8299	7.487	ng		0.00
45) 2-Fluorobiphenyl	13.112	172	68235	10.386	ng		0.00
79) Terphenyl-d14	19.845	244	127223	10.226	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.376	88	4983	5.147	ng		88
3) Pyridine	3.764	79	12091	5.135	ng		90
4) n-Nitrosodimethylamine	3.676	42	7436	4.420	ng	#	86
6) Aniline	7.189	93	13285	4.659	ng	#	90
8) 2-Chlorophenol	7.424	128	10525	4.587	ng		93
9) Benzaldehyde	7.007	77	9269	5.456	ng		91
10) Phenol	7.048	94	13256	4.455	ng		95
11) bis(2-Chloroethyl)ether	7.289	93	11465	4.915	ng		92
12) 1,3-Dichlorobenzene	7.753	146	12701	5.041	ng		99
13) 1,4-Dichlorobenzene	7.894	146	12909m	4.999	ng		
14) 1,2-Dichlorobenzene	8.218	146	12410m	4.983	ng		
15) Benzyl Alcohol	8.094	79	9299	4.141	ng	#	91
16) 2,2'-oxybis(1-Chloropr...	8.400	45	25555	4.872	ng		94
17) 2-Methylphenol	8.300	107	8465	4.287	ng		88
18) Hexachloroethane	8.946	117	4075	4.510	ng		85
19) n-Nitroso-di-n-propyla...	8.664	70	9131	4.477	ng	#	96
20) 3+4-Methylphenols	8.623	107	11690	4.300	ng		95
22) Acetophenone	8.676	105	18540	4.761	ng		95
24) Nitrobenzene	9.052	77	10563	3.977	ng	#	91
25) Isophorone	9.575	82	25179	4.895	ng		98
26) 2-Nitrophenol	9.769	139	2362	6.094	ng		88
27) 2,4-Dimethylphenol	9.822	122	6887	4.466	ng	#	88
28) bis(2-Chloroethoxy)met...	10.062	93	15067	4.832	ng		95
29) 2,4-Dichlorophenol	10.297	162	7898	4.056	ng		96
30) 1,2,4-Trichlorobenzene	10.515	180	11480	4.884	ng		93
31) Naphthalene	10.703	128	38285	4.999	ng		99
33) 4-Chloroaniline	10.809	127	12591	4.499	ng		95
34) Hexachlorobutadiene	10.997	225	7373	4.786	ng	#	91
35) Caprolactam	11.537	113	3052	4.090	ng	#	89
36) 4-Chloro-3-methylphenol	11.925	107	10408	4.078	ng		92
37) 2-Methylnaphthalene	12.313	142	27533	5.093	ng		99
38) 1-Methylnaphthalene	12.530	142	26458	4.995	ng		97
40) 1,2,4,5-Tetrachloroben...	12.677	216	13634	4.789	ng		94
41) Hexachlorocyclopentadiene	12.665	237	3078	3.841	ng		97
43) 2,4,6-Trichlorophenol	12.912	196	6684m	3.983	ng		
44) 2,4,5-Trichlorophenol	12.983	196	7092	3.804	ng		94

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064046.D
Acq On : 5 Mar 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 05 15:20:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.323	154	37550	4.984	ng		98
47) 2-Chloronaphthalene	13.359	162	27076	4.928	ng		95
48) 2-Nitroaniline	13.552	65	4908	6.075	ng		84
49) Acenaphthylene	14.205	152	42736	4.917	ng		96
50) Dimethylphthalate	13.940	163	35694	4.849	ng		99
51) 2,6-Dinitrotoluene	14.058	165	3942	5.812	ng	#	81
52) Acenaphthene	14.551	154	29044m	4.969	ng		
53) 3-Nitroaniline	14.387	138	4736	3.329	ng	#	84
55) Dibenzofuran	14.880	168	48004	5.080	ng		96
57) 2,4-Dinitrotoluene	14.839	165	5618	6.165	ng	#	95
58) Fluorene	15.532	166	38777	5.269	ng		90
59) 2,3,4,6-Tetrachlorophenol	15.109	232	6538	3.597	ng	#	94
60) Diethylphthalate	15.309	149	37289	4.666	ng		98
61) 4-Chlorophenyl-phenyle...	15.532	204	18807	5.142	ng		89
62) 4-Nitroaniline	15.538	138	5314	3.460	ng		93
63) Azobenzene	15.820	77	43236	5.070	ng		96
66) n-Nitrosodiphenylamine	15.744	169	32754	4.927	ng		96
67) 4-Bromophenyl-phenylether	16.426	248	10898	4.531	ng		93
68) Hexachlorobenzene	16.531	284	13351	4.958	ng		99
69) Atrazine	16.690	200	10297	5.264	ng		89
71) Phenanthrene	17.266	178	63629	5.079	ng		98
72) Anthracene	17.354	178	60108	4.825	ng		98
73) Carbazole	17.624	167	55726	4.792	ng		99
74) Di-n-butylphthalate	18.200	149	54700	3.996	ng	#	95
75) Fluoranthene	19.275	202	74694	4.946	ng		99
77) Benzidine	19.463	184	13919m	3.941	ng		
78) Pyrene	19.639	202	78707	4.853	ng		98
80) Butylbenzylphthalate	20.538	149	17899	6.356	ng		96
81) Benzo(a)anthracene	21.437	228	76566	4.751	ng		98
82) 3,3'-Dichlorobenzidine	21.361	252	22038	4.226	ng		89
83) Chrysene	21.502	228	80580	5.014	ng		98
84) Bis(2-ethylhexyl)phtha...	21.379	149	31674	3.634	ng		94
87) Indeno(1,2,3-cd)pyrene	27.865	276	78681	4.569	ng	#	94
88) Benzo(b)fluoranthene	23.523	252	74031	4.757	ng		99
89) Benzo(k)fluoranthene	23.588	252	71522	4.582	ng		98
90) Benzo(a)pyrene	24.322	252	63881	4.610	ng	#	96
91) Dibenzo(a,h)anthracene	27.912	278	66224	4.638	ng		98
92) Benzo(g,h,i)perylene	28.905	276	67535	4.607	ng	#	93

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

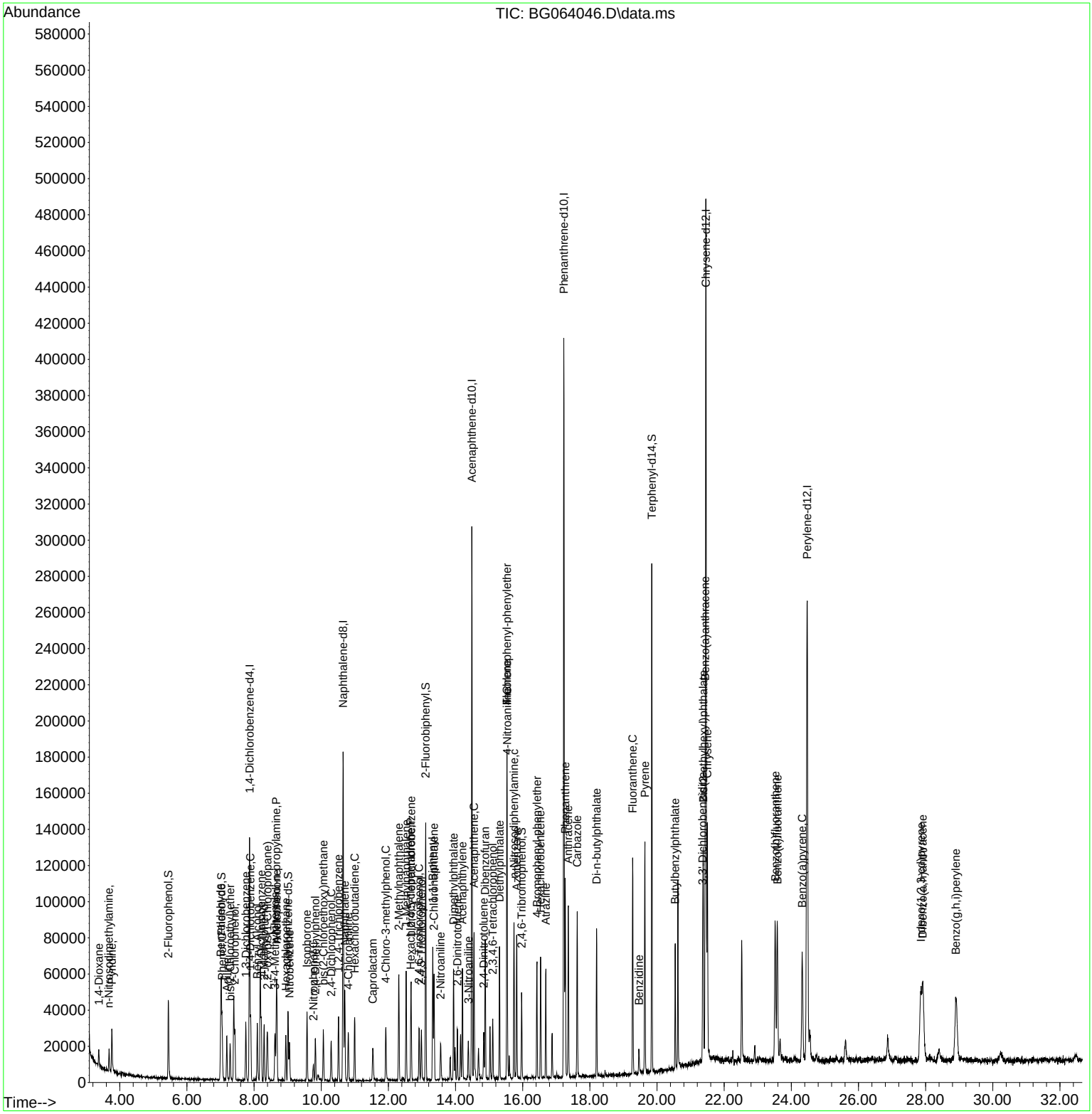
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064046.D
Acq On : 5 Mar 2025 9:42
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

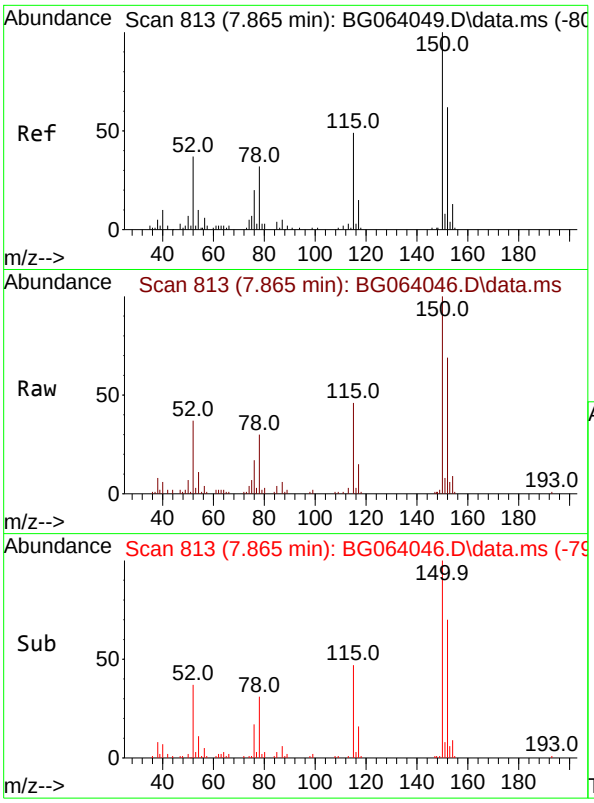
Quant Time: Mar 05 15:20:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

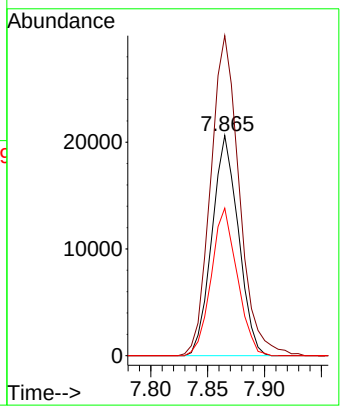




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. -0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:152 Resp: 3335

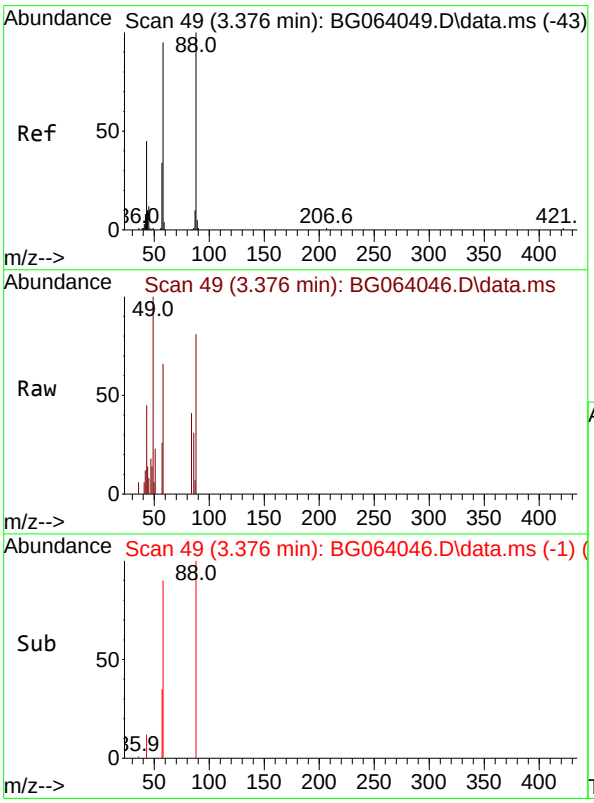
Ion	Ratio	Lower	Upper
152	100		
150	145.3	129.2	193.8
115	67.0	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

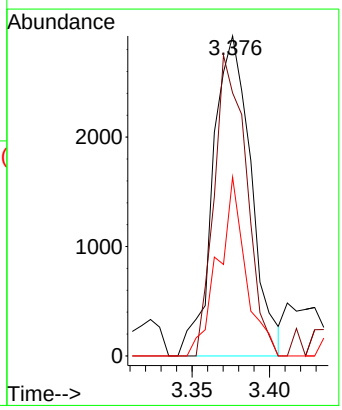
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

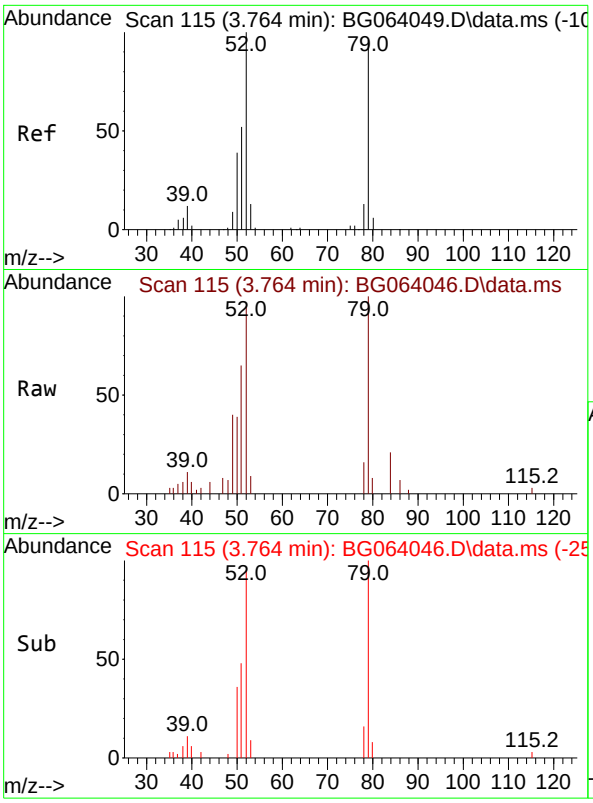


#2
1,4-Dioxane
Concen: 5.147 ng
RT: 3.376 min Scan# 49
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 88 Resp: 4983

Ion	Ratio	Lower	Upper
88	100		
58	79.5	74.6	111.8
43	40.5	35.5	53.3

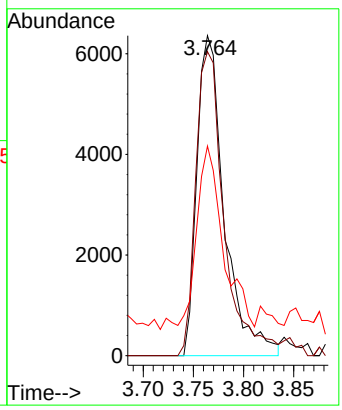




#3
Pyridine
Concen: 5.135 ng
RT: 3.764 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 79 Resp: 1209

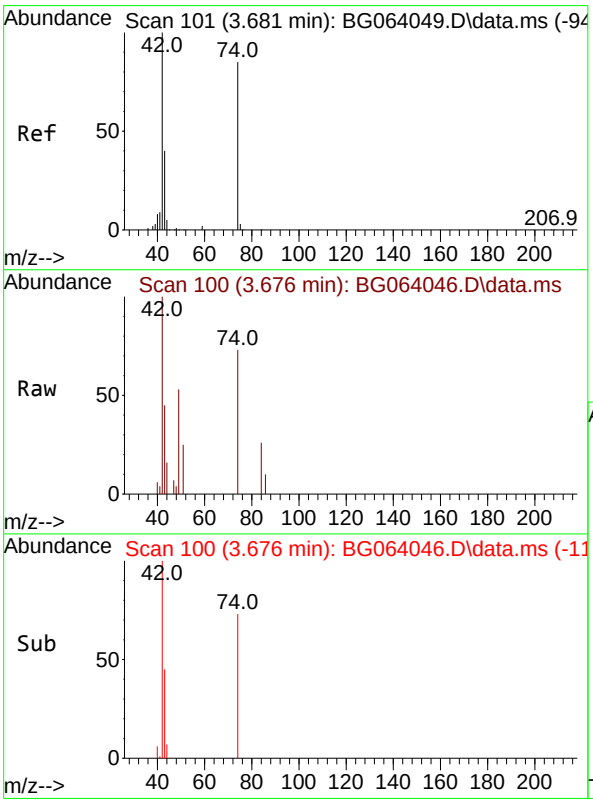
Ion	Ratio	Lower	Upper
79	100		
52	95.0	83.0	124.6
51	65.5	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

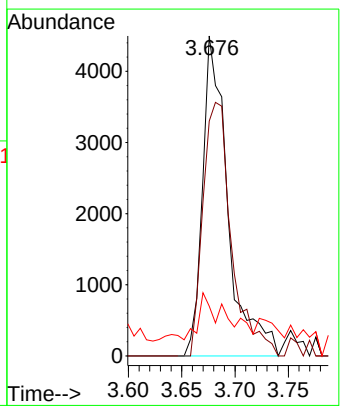
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

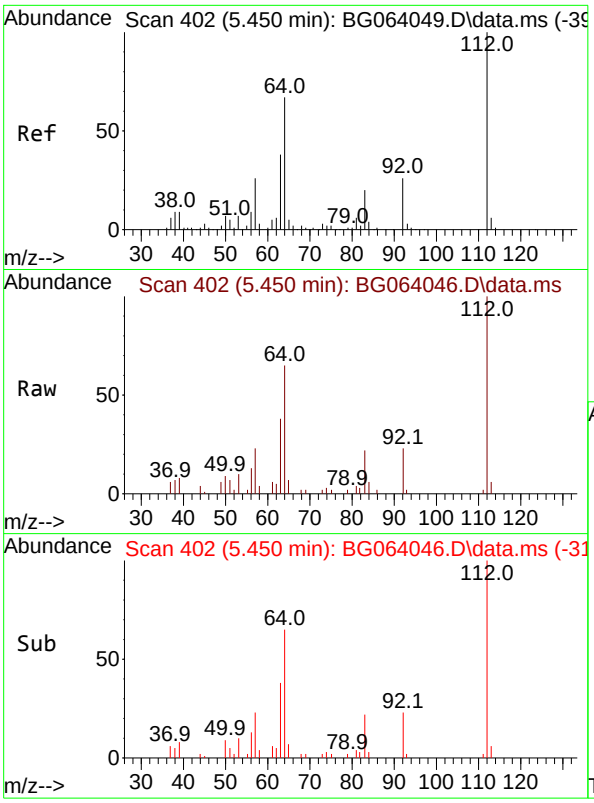


#4
n-Nitrosodimethylamine
Concen: 4.420 ng
RT: 3.676 min Scan# 100
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 42 Resp: 7436

Ion	Ratio	Lower	Upper
42	100		
74	73.4	68.0	102.0
44	15.6	4.9	7.3#

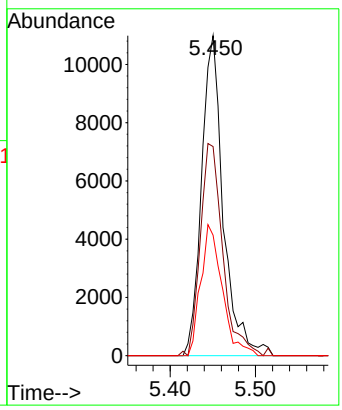




#5
2-Fluorophenol
Concen: 9.098 ng
RT: 5.450 min Scan# 4(
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:112 Resp: 1943

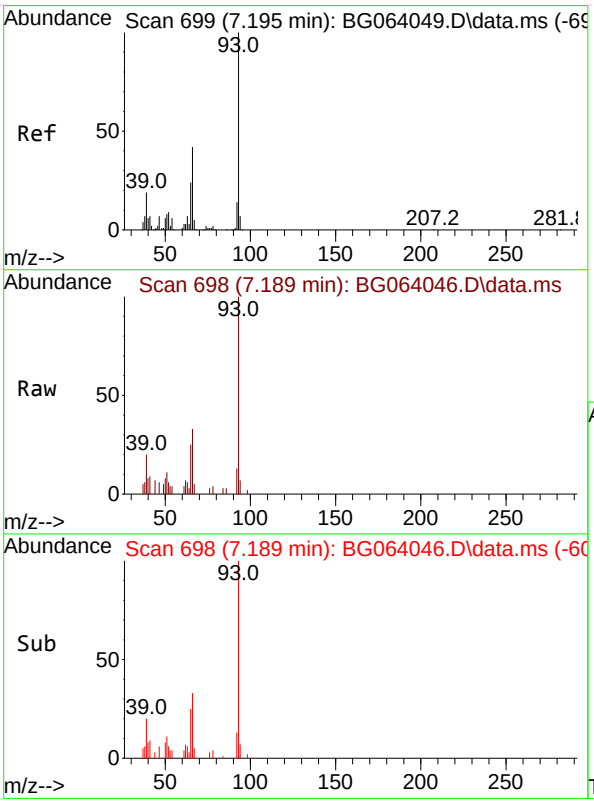
Ion	Ratio	Lower	Upper
112	100		
64	65.4	53.7	80.5
63	37.6	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

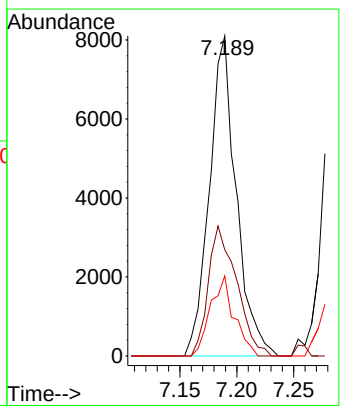
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

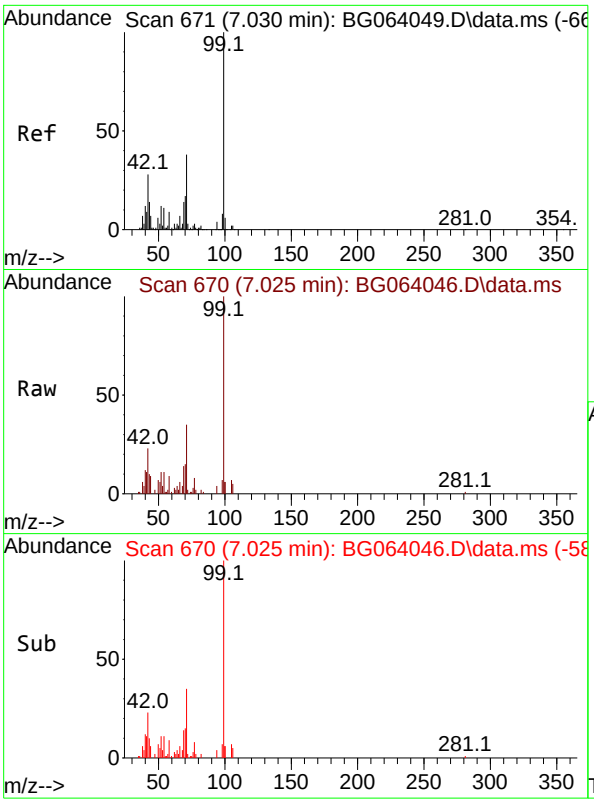


#6
Aniline
Concen: 4.659 ng
RT: 7.189 min Scan# 698
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 93 Resp: 13285

Ion	Ratio	Lower	Upper
93	100		
66	33.2	33.7	50.5#
65	25.0	19.1	28.7

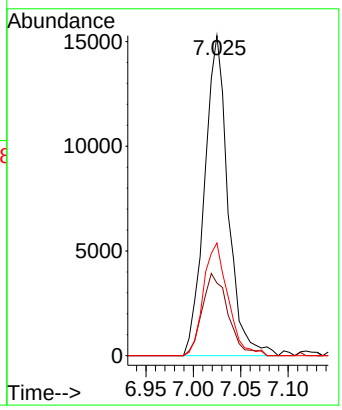




#7
Phenol-d6
Concen: 9.065 ng
RT: 7.025 min Scan# 6
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 99 Resp: 2634

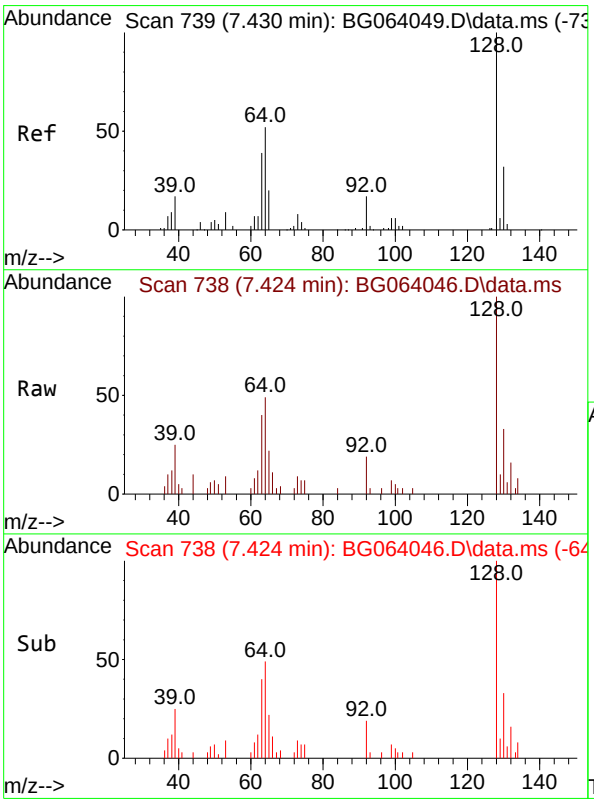
Ion	Ratio	Lower	Upper
99	100		
42	22.7	22.7	34.1#
71	35.2	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

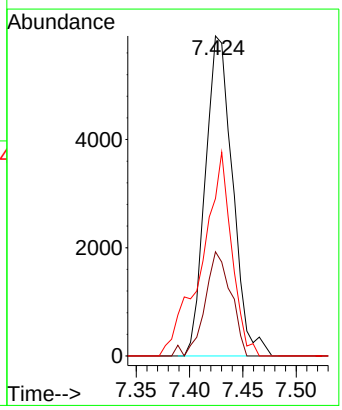
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

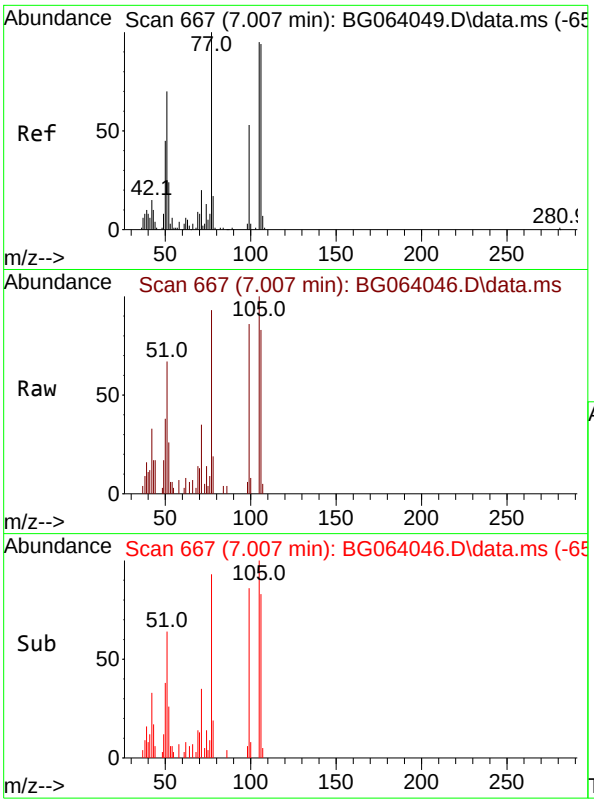


#8
2-Chlorophenol
Concen: 4.587 ng
RT: 7.424 min Scan# 738
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:128 Resp: 10525

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.3	52.3
64	49.2	37.0	77.0

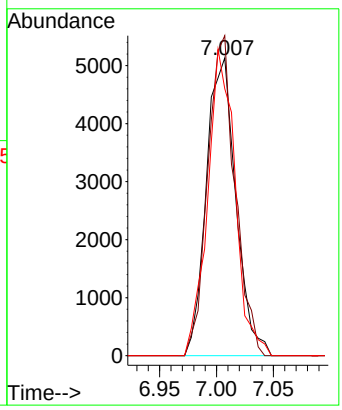




#9
Benzaldehyde
Concen: 5.456 ng
RT: 7.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 77 Resp: 926

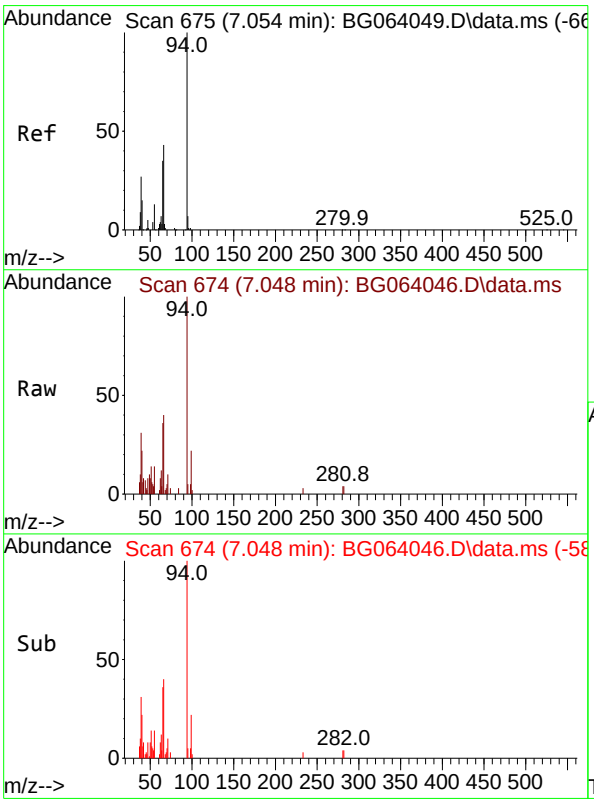
Ion	Ratio	Lower	Upper
77	100		
105	107.4	75.5	115.5
106	89.7	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

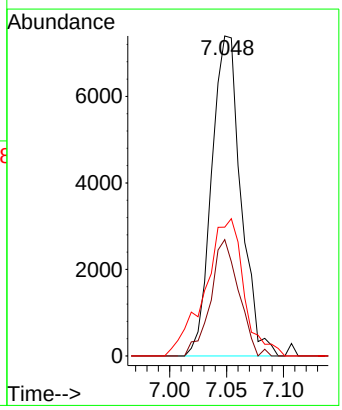
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

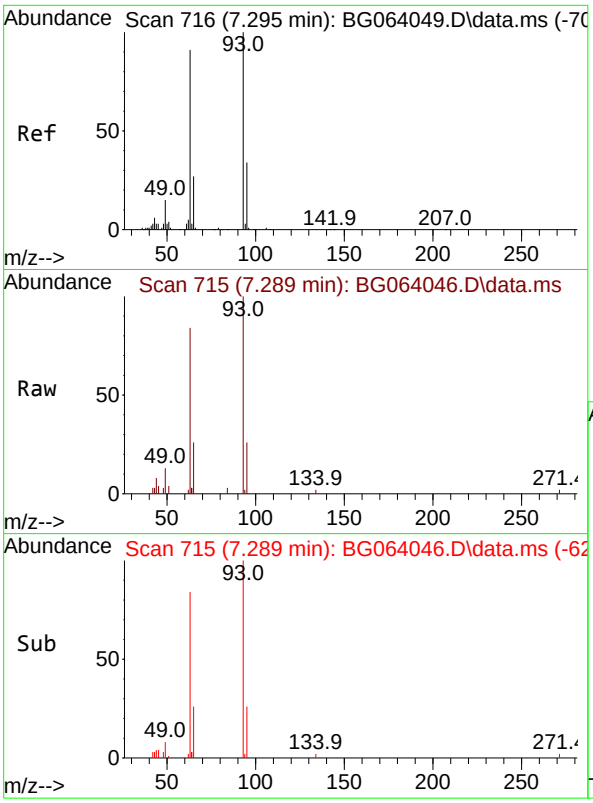


#10
Phenol
Concen: 4.455 ng
RT: 7.048 min Scan# 674
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 94 Resp: 13256

Ion	Ratio	Lower	Upper
94	100		
65	36.4	15.2	55.2
66	40.2	25.1	65.1

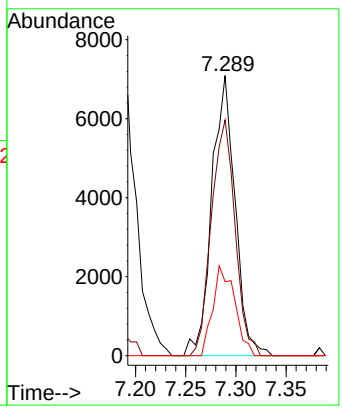




#11
bis(2-Chloroethyl)ether
Concen: 4.915 ng
RT: 7.289 min Scan# 7
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 93 Resp: 1146

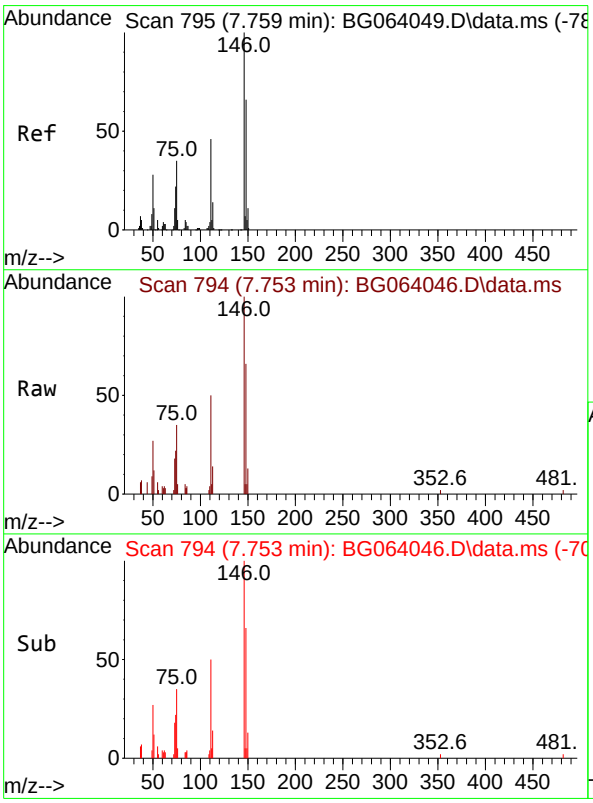
Ion	Ratio	Lower	Upper
93	100		
63	84.1	70.0	110.0
95	26.4	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

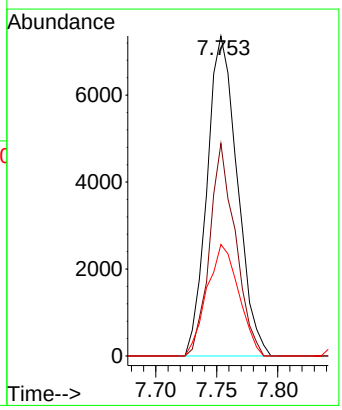
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

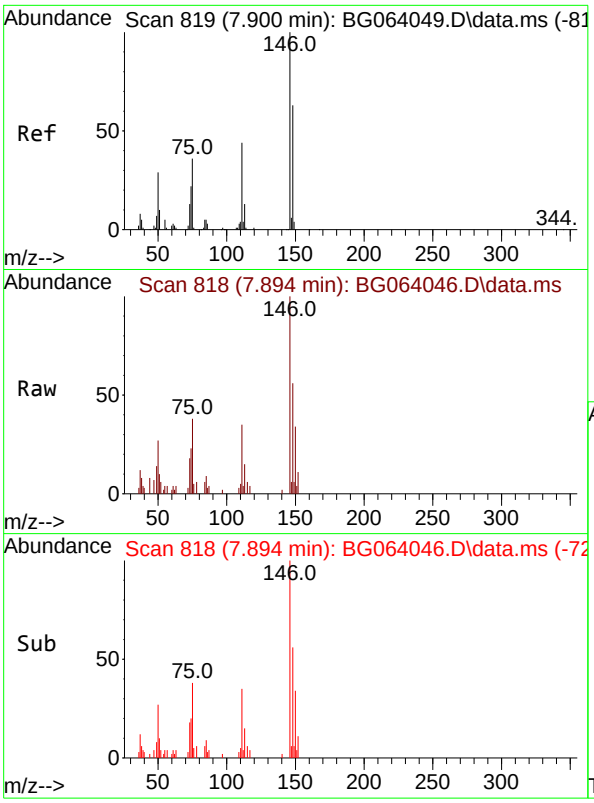


#12
1,3-Dichlorobenzene
Concen: 5.041 ng
RT: 7.753 min Scan# 794
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:146 Resp: 12701

Ion	Ratio	Lower	Upper
146	100		
148	66.4	52.6	78.8
75	34.9	28.1	42.1

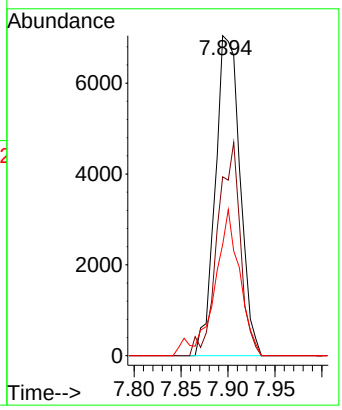




#13
1,4-Dichlorobenzene
Concen: 4.999 ng m
RT: 7.894 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:146 Resp: 1290

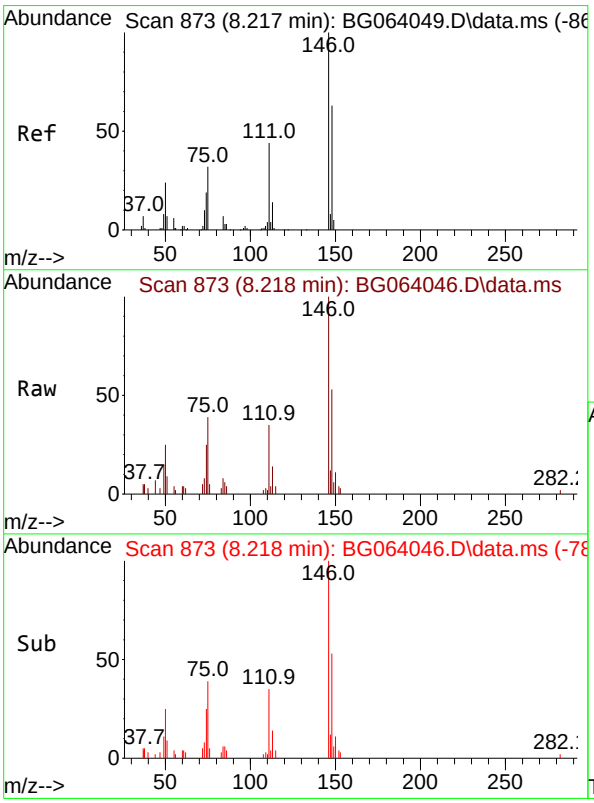
Ion	Ratio	Lower	Upper
146	100		
148	55.9	50.6	75.8
111	34.7	35.1	52.7#



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

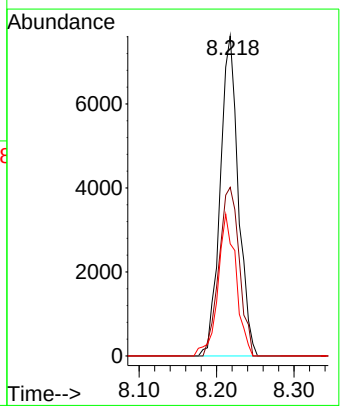
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

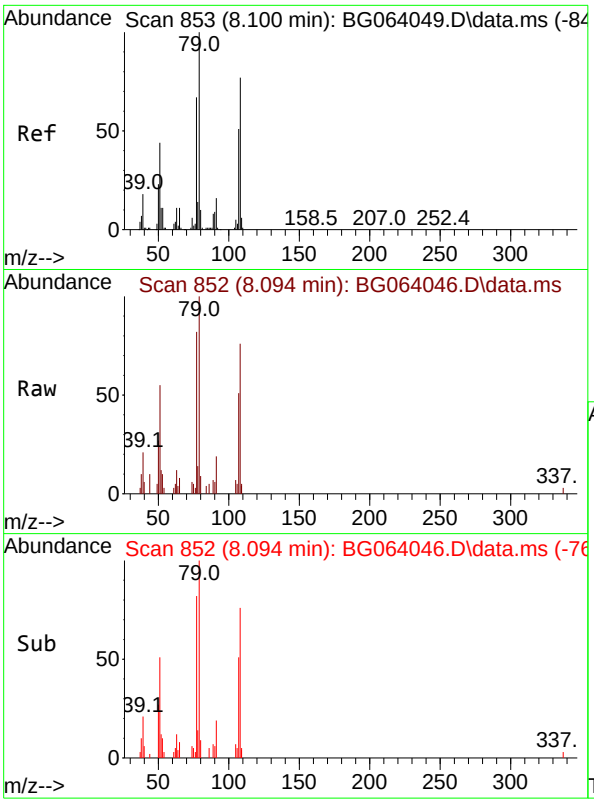


#14
1,2-Dichlorobenzene
Concen: 4.983 ng m
RT: 8.218 min Scan# 873
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:146 Resp: 12410

Ion	Ratio	Lower	Upper
146	100		
148	52.7	50.2	75.2
111	35.0	36.4	54.6#

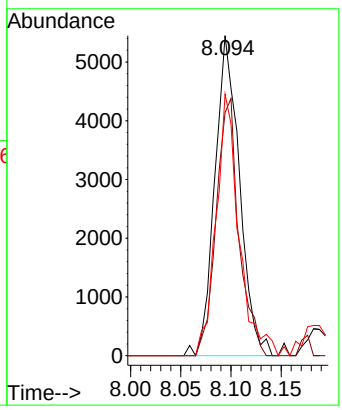




#15
Benzyl Alcohol
Concen: 4.141 ng
RT: 8.094 min Scan# 8
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 79 Resp: 929

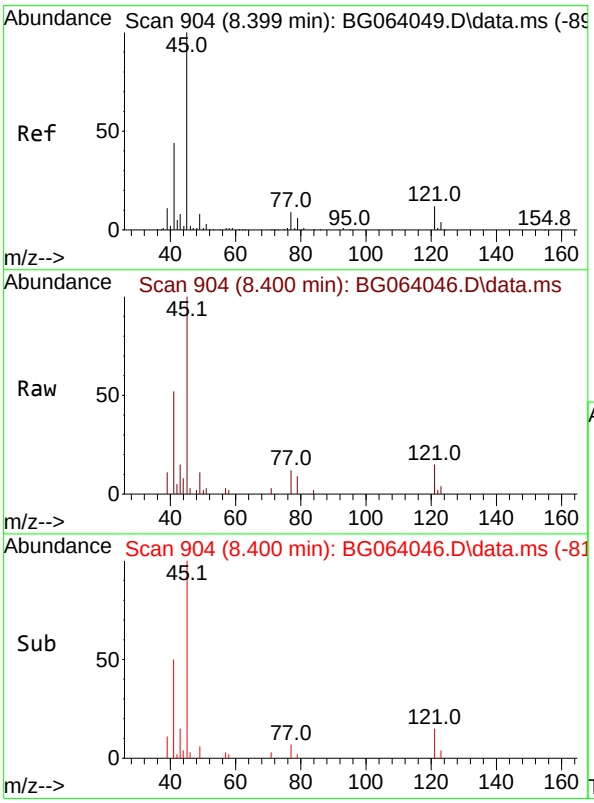
Ion	Ratio	Lower	Upper
79	100		
108	76.0	61.7	92.5
77	81.7	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

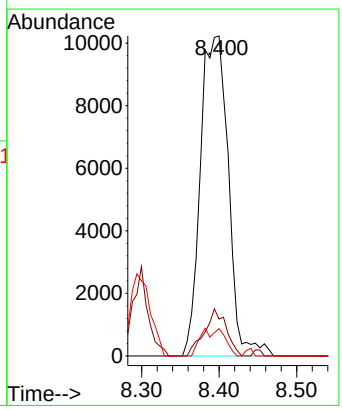
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

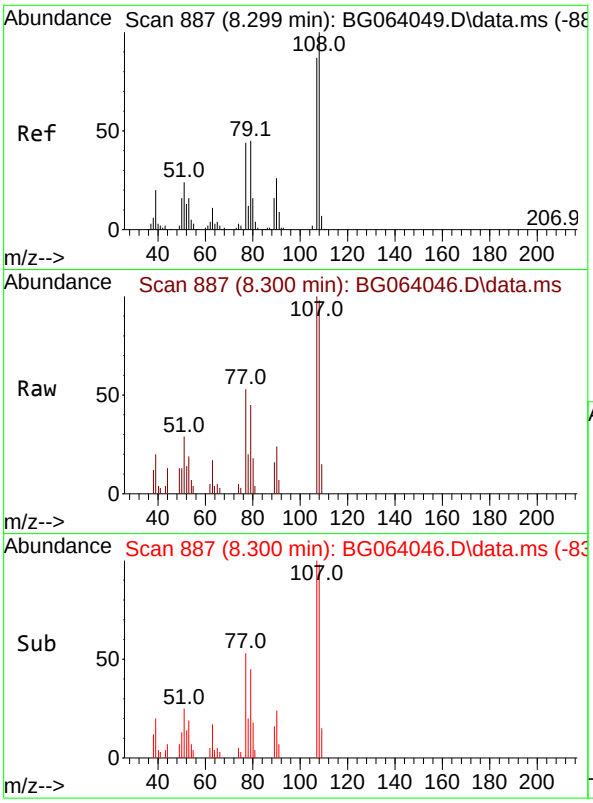


#16
2,2'-oxybis(1-Chloropropane)
Concen: 4.872 ng
RT: 8.400 min Scan# 904
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 45 Resp: 25555

Ion	Ratio	Lower	Upper
45	100		
77	11.5	0.0	29.0
79	8.5	0.0	26.6

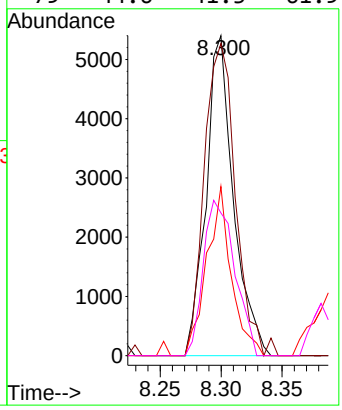




#17
2-Methylphenol
Concen: 4.287 ng
RT: 8.300 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:107 Resp: 846

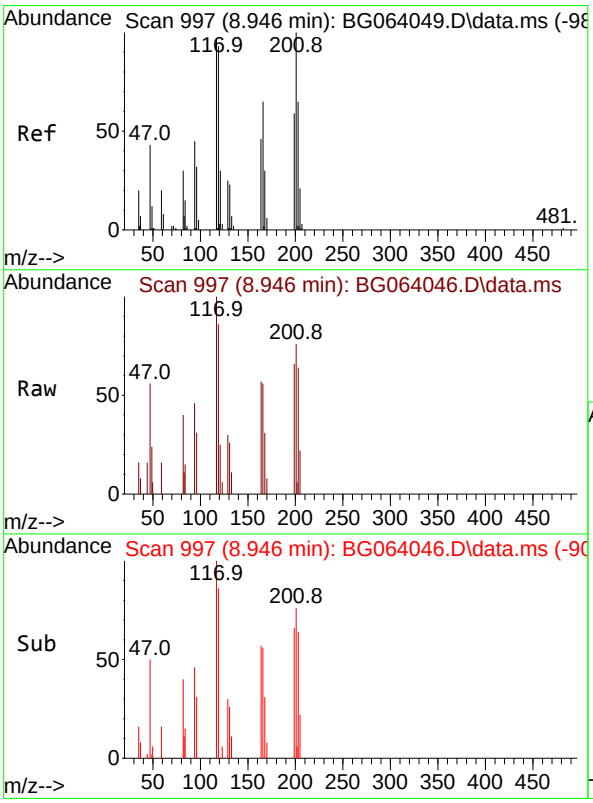
Ion	Ratio	Lower	Upper
107	100		
108	97.5	92.5	138.7
77	52.8	40.5	60.7
79	44.6	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

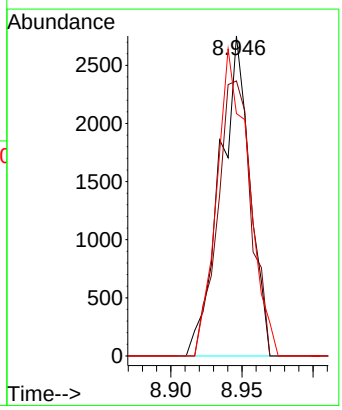
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

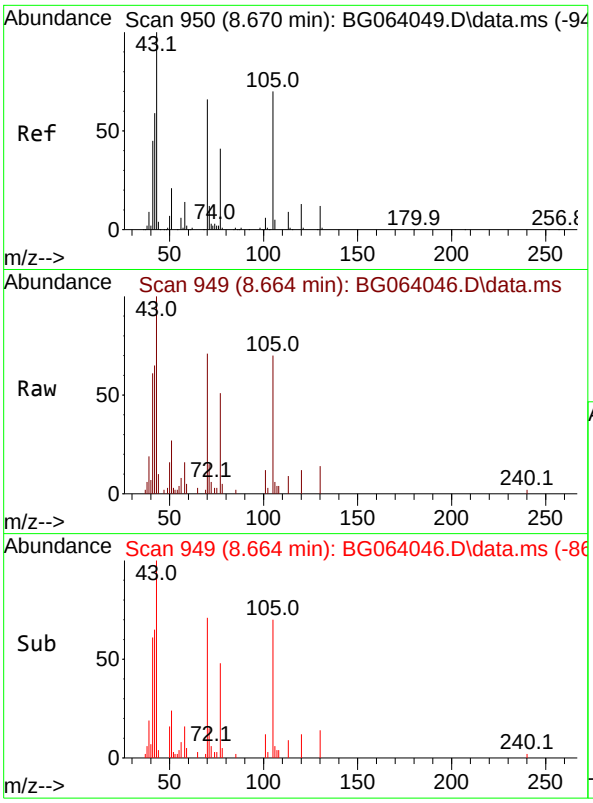


#18
Hexachloroethane
Concen: 4.510 ng
RT: 8.946 min Scan# 997
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:117 Resp: 4075

Ion	Ratio	Lower	Upper
117	100		
119	85.9	76.2	114.2
201	81.9	81.5	122.3

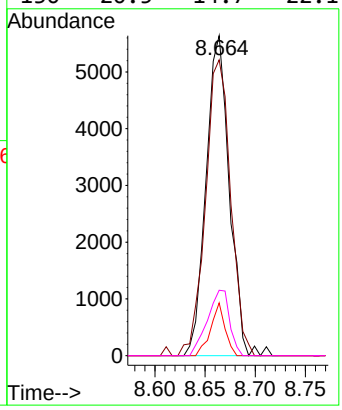




#19
n-Nitroso-di-n-propylamine
Concen: 4.477 ng
RT: 8.664 min Scan# 94
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 70 Resp: 913

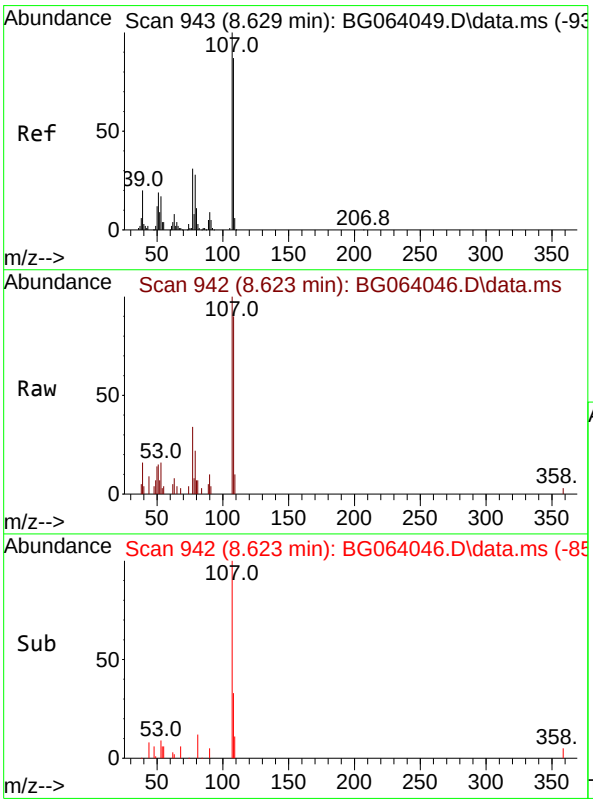
Ion	Ratio	Lower	Upper
70	100		
42	92.5	72.1	108.1
101	16.5	7.2	10.8
130	20.5	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

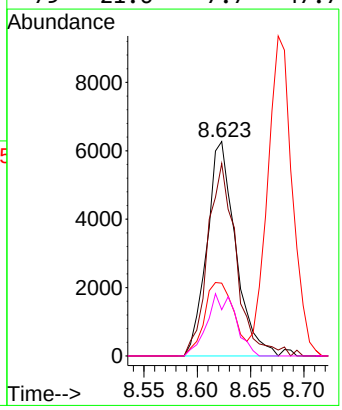
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

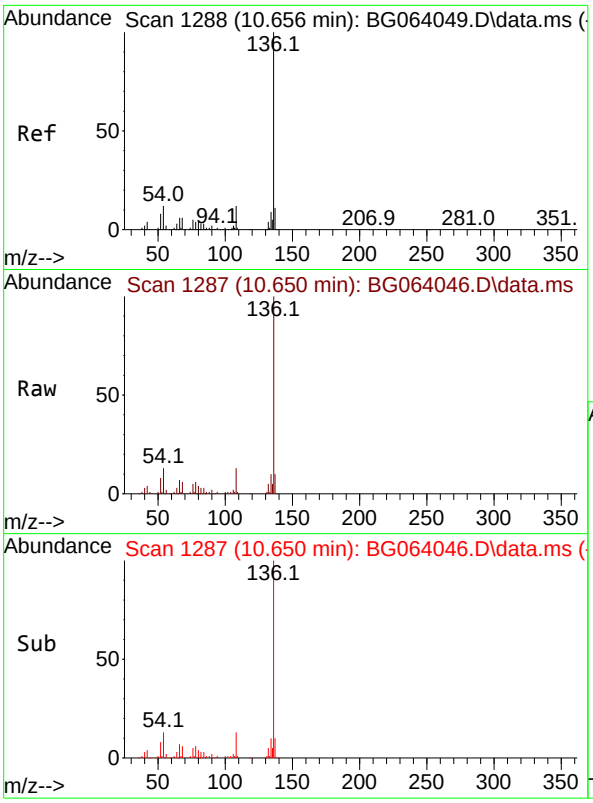


#20
3+4-Methylphenols
Concen: 4.300 ng
RT: 8.623 min Scan# 942
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:107 Resp: 11690

Ion	Ratio	Lower	Upper
107	100		
108	89.8	67.0	107.0
77	33.9	11.2	51.2
79	21.6	7.7	47.7

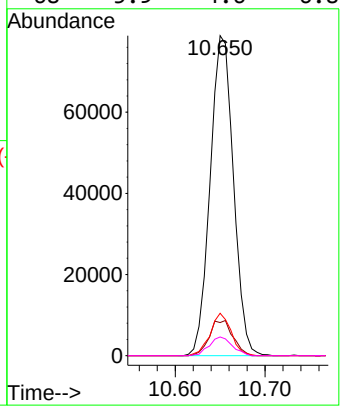




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.650 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:136 Resp: 14201

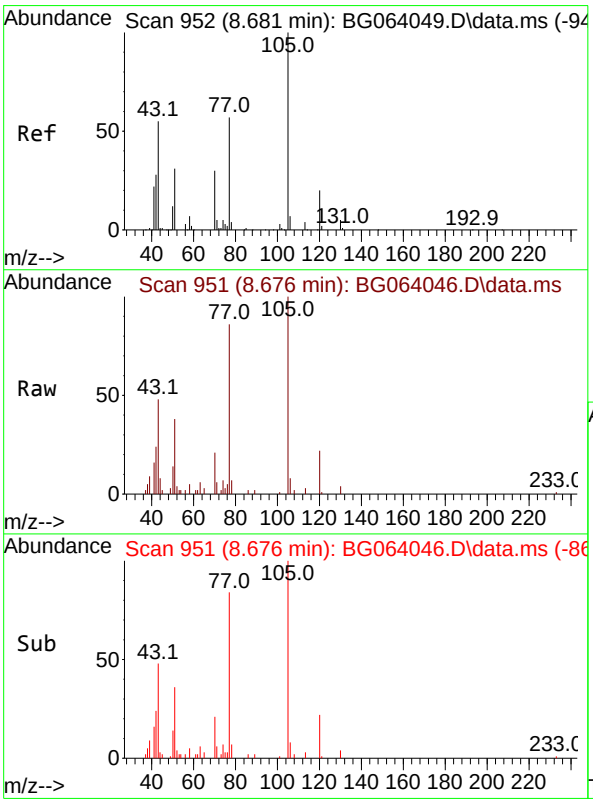
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.5	12.7
54	13.2	9.9	14.9
68	5.9	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

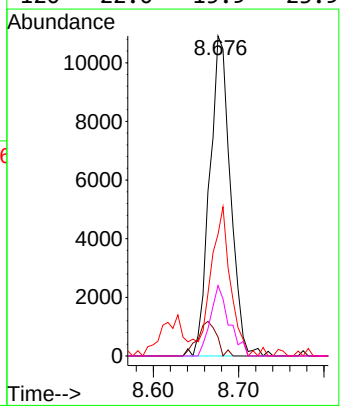
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

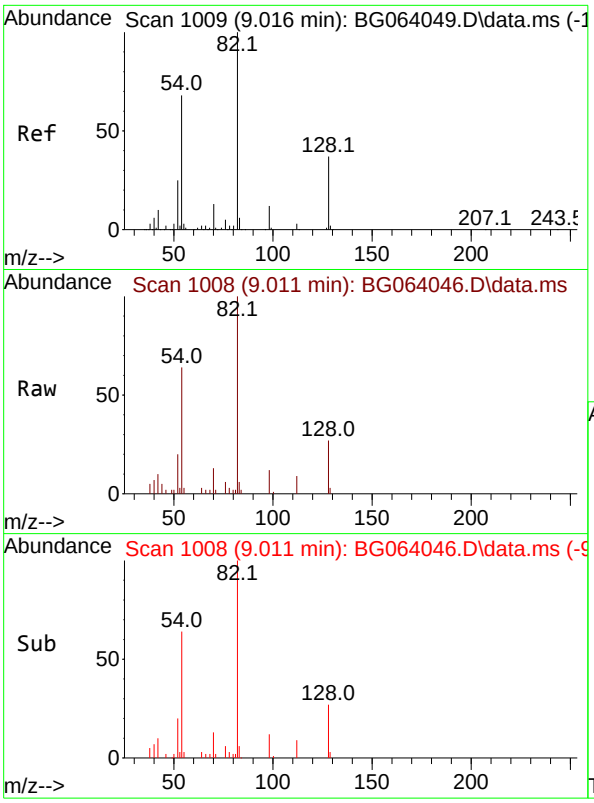


#22
Acetophenone
Concen: 4.761 ng
RT: 8.676 min Scan# 951
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:105 Resp: 18540

Ion	Ratio	Lower	Upper
105	100		
71	5.9	4.2	6.4
51	38.1	33.3	49.9
120	22.0	15.9	23.9

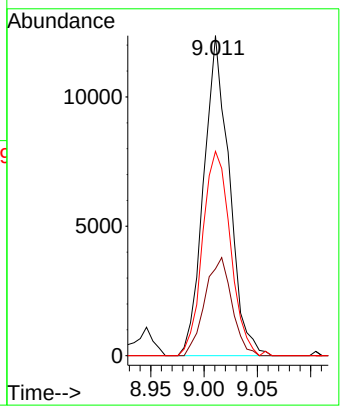




#23
Nitrobenzene-d5
Concen: 8.016 ng
RT: 9.011 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 82 Resp: 2060

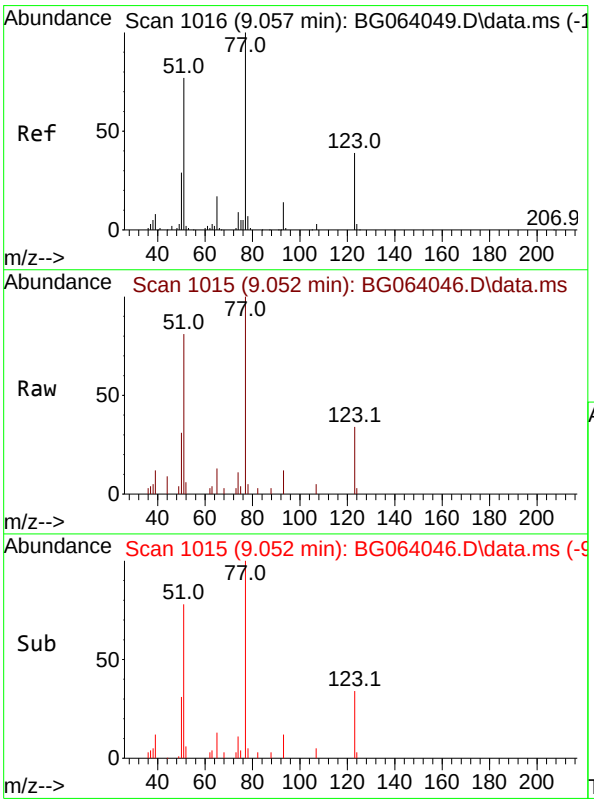
Ion	Ratio	Lower	Upper
82	100		
128	27.2	30.0	45.0#
54	63.8	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

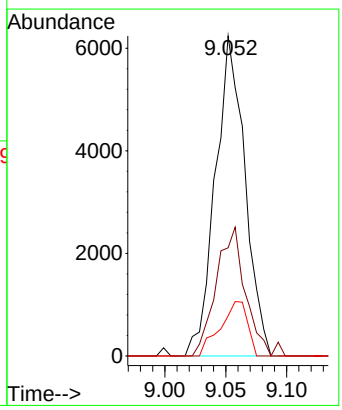
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

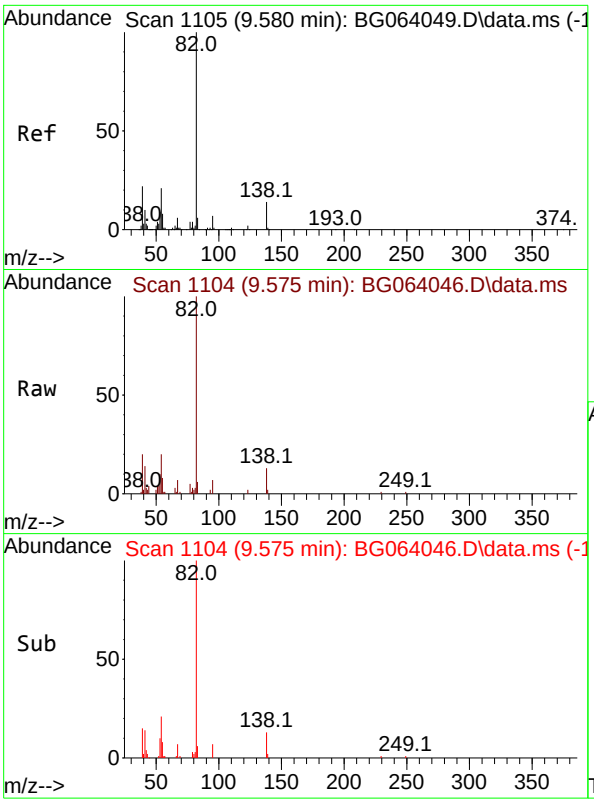


#24
Nitrobenzene
Concen: 3.977 ng
RT: 9.052 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 77 Resp: 10563

Ion	Ratio	Lower	Upper
77	100		
123	33.8	31.4	47.2
65	12.6	13.4	20.0#

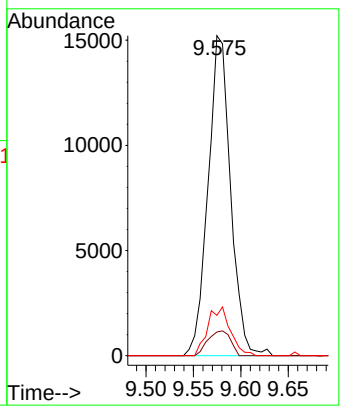




#25
Isophorone
Concen: 4.895 ng
RT: 9.575 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 82 Resp: 2517

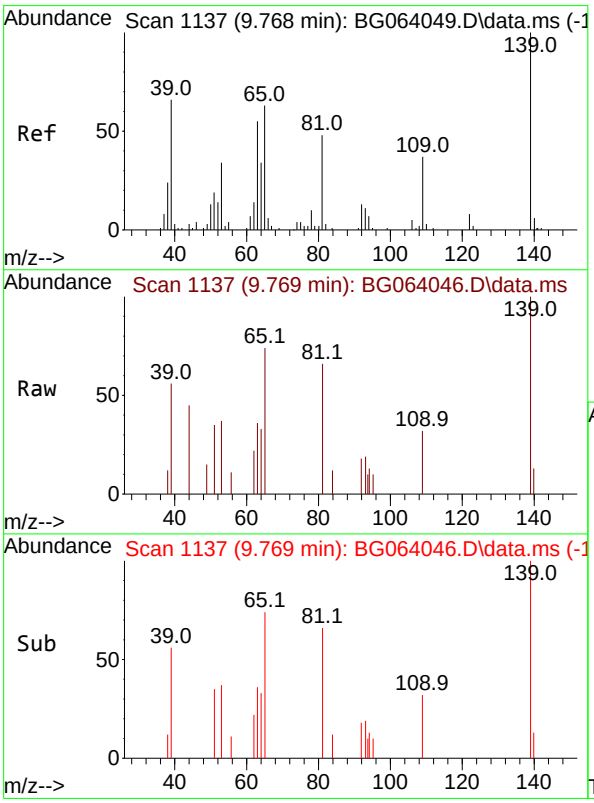
Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.8	8.8
138	12.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

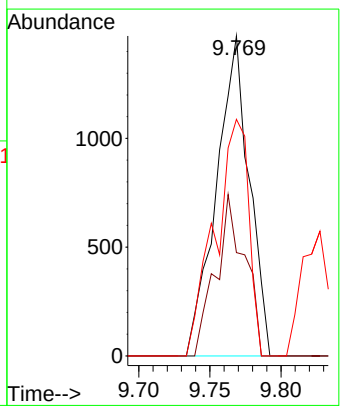
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

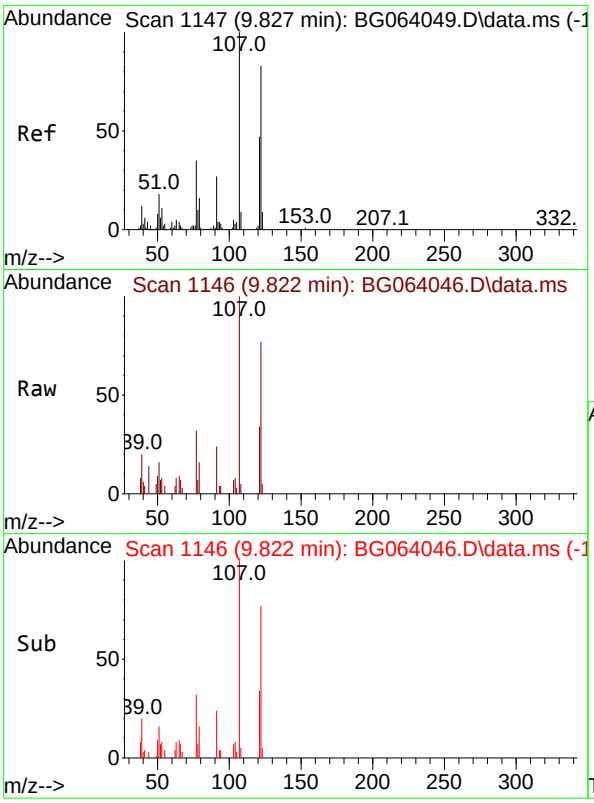


#26
2-Nitrophenol
Concen: 6.094 ng
RT: 9.769 min Scan# 1137
Delta R.T. 0.001 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:139 Resp: 2362

Ion	Ratio	Lower	Upper
139	100		
109	32.3	29.9	44.9
65	74.0	50.6	76.0





#27
2,4-Dimethylphenol
Concen: 4.466 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

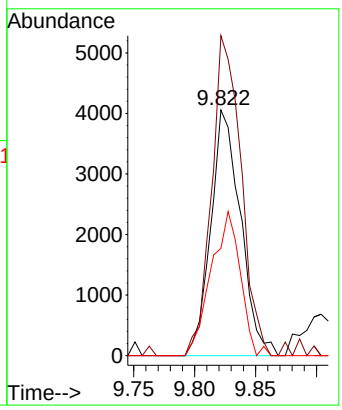
Tgt Ion:122 Resp: 688

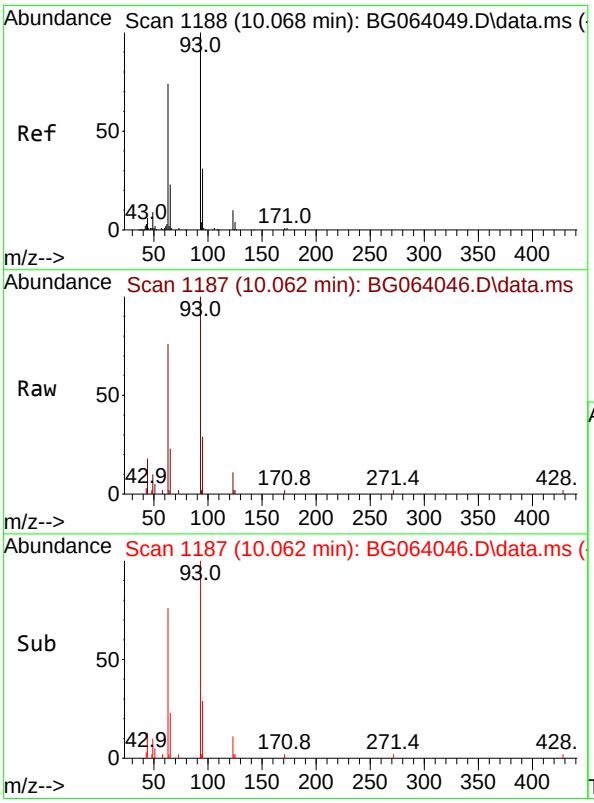
Ion	Ratio	Lower	Upper
122	100		
107	130.3	95.4	143.0
121	43.7	44.9	67.3#

Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

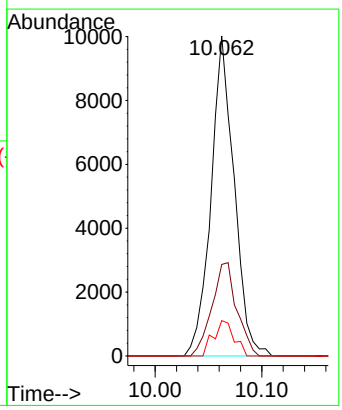


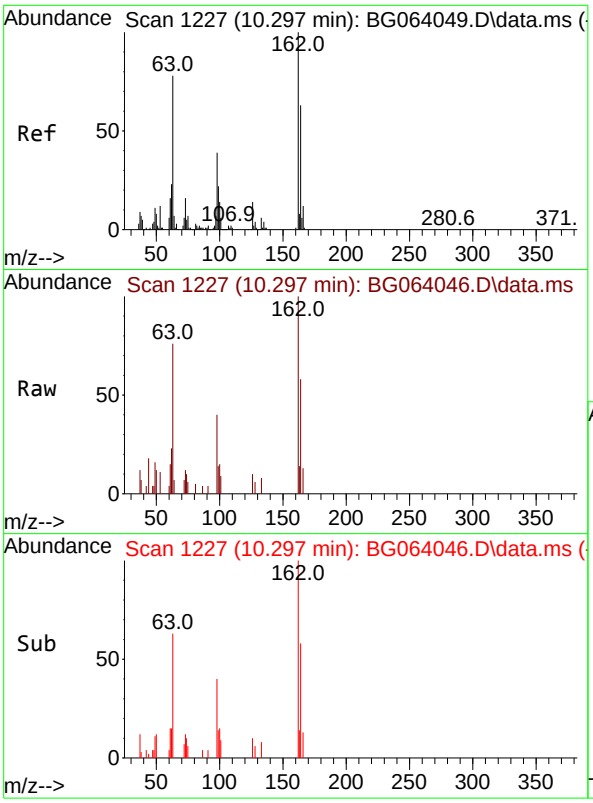


#28
bis(2-Chloroethoxy)methane
Concen: 4.832 ng
RT: 10.062 min Scan# 1187
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 93 Resp: 15067

Ion	Ratio	Lower	Upper
93	100		
95	28.6	25.0	37.4
123	11.1	7.6	11.4

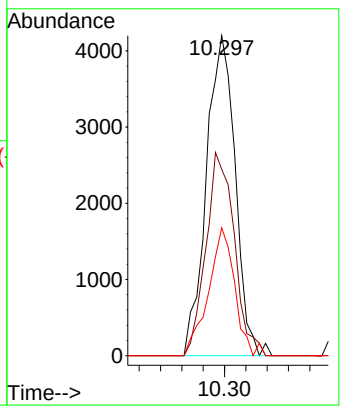




#29
2,4-Dichlorophenol
Concen: 4.056 ng
RT: 10.297 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:162 Resp: 789

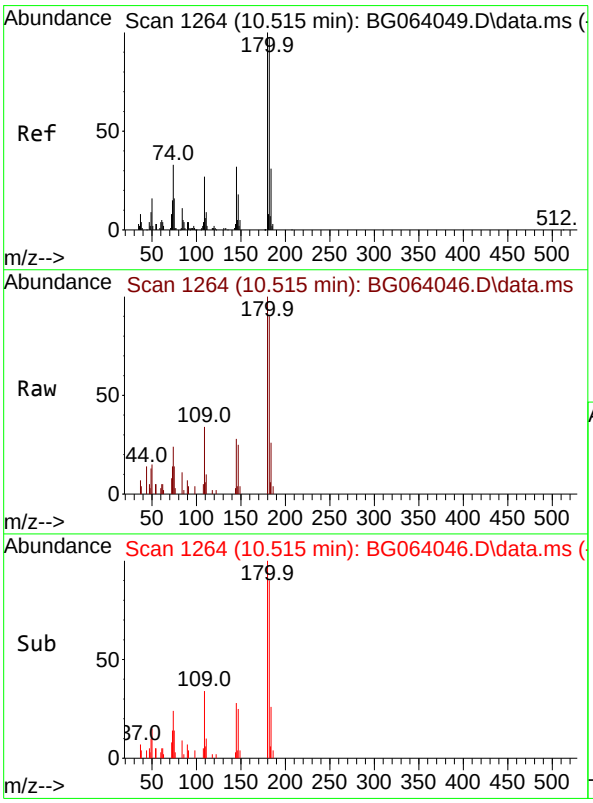
Ion	Ratio	Lower	Upper
162	100		
164	58.2	42.8	82.8
98	40.0	19.1	59.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

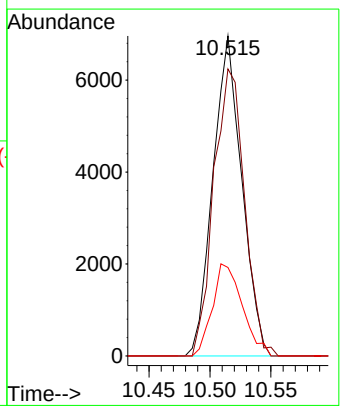
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

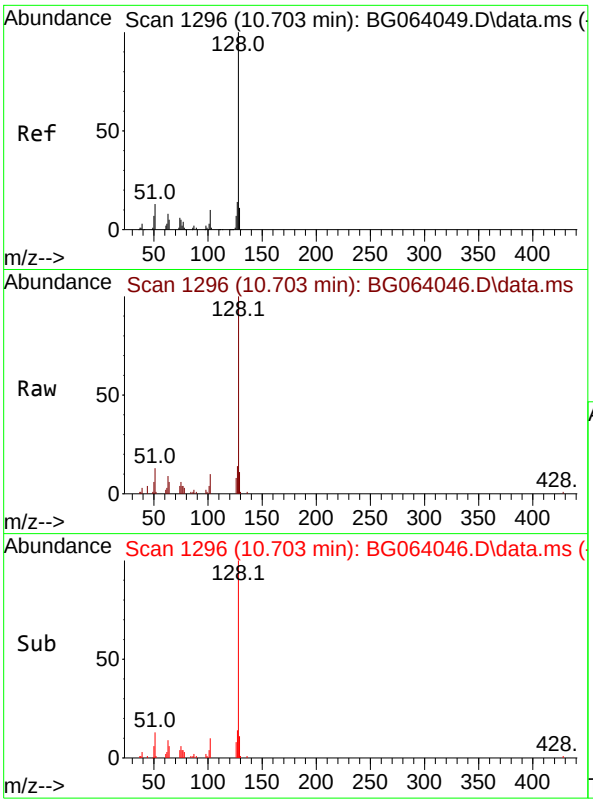


#30
1,2,4-Trichlorobenzene
Concen: 4.884 ng
RT: 10.515 min Scan# 1264
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:180 Resp: 11480

Ion	Ratio	Lower	Upper
180	100		
182	89.7	77.3	115.9
145	27.7	25.2	37.8

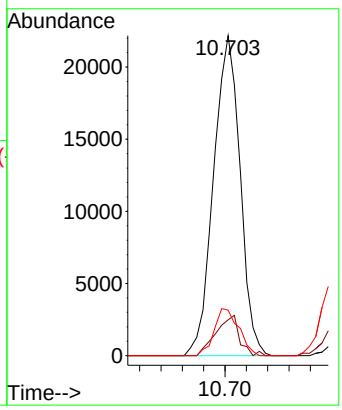




#31
Naphthalene
Concen: 4.999 ng
RT: 10.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:128 Resp: 3828

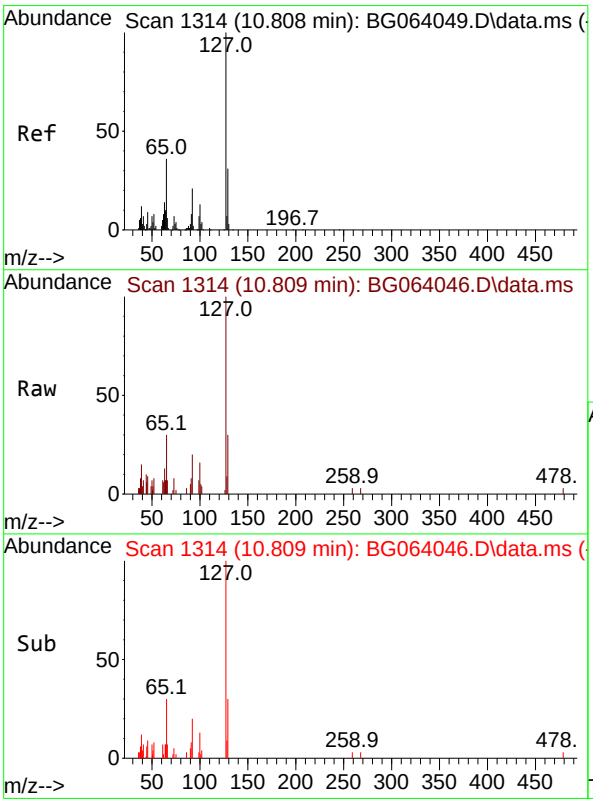
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.4	12.6
127	14.3	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

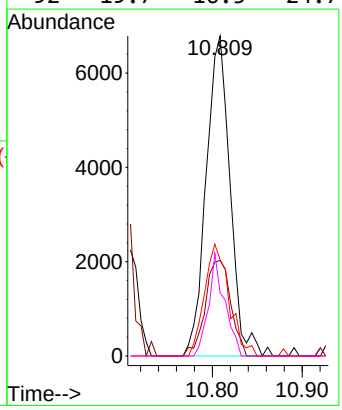
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

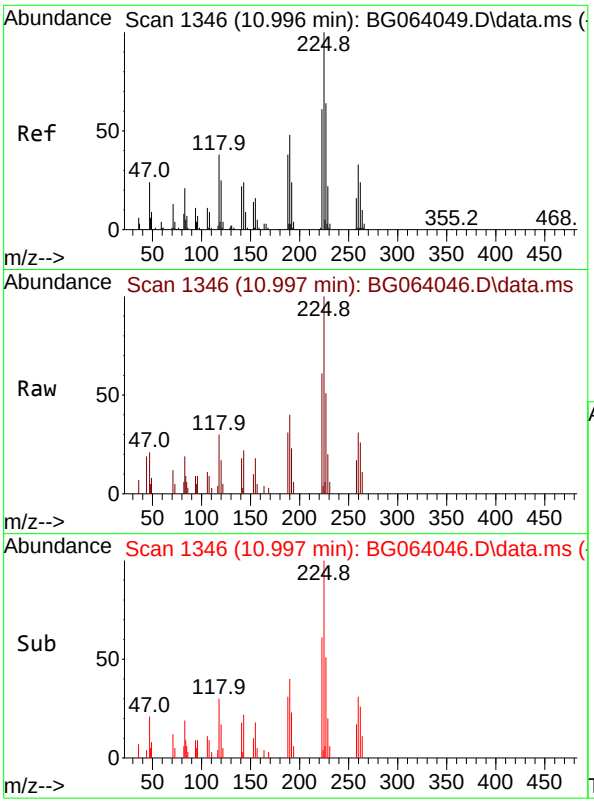


#33
4-Chloroaniline
Concen: 4.499 ng
RT: 10.809 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:127 Resp: 12591

Ion	Ratio	Lower	Upper
127	100		
129	29.8	25.0	37.4
65	30.1	28.5	42.7
92	19.7	16.5	24.7

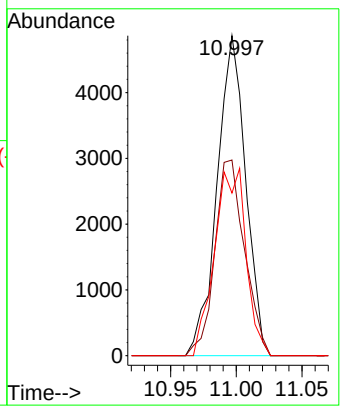




#34
Hexachlorobutadiene
Concen: 4.786 ng
RT: 10.997 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:225 Resp: 737

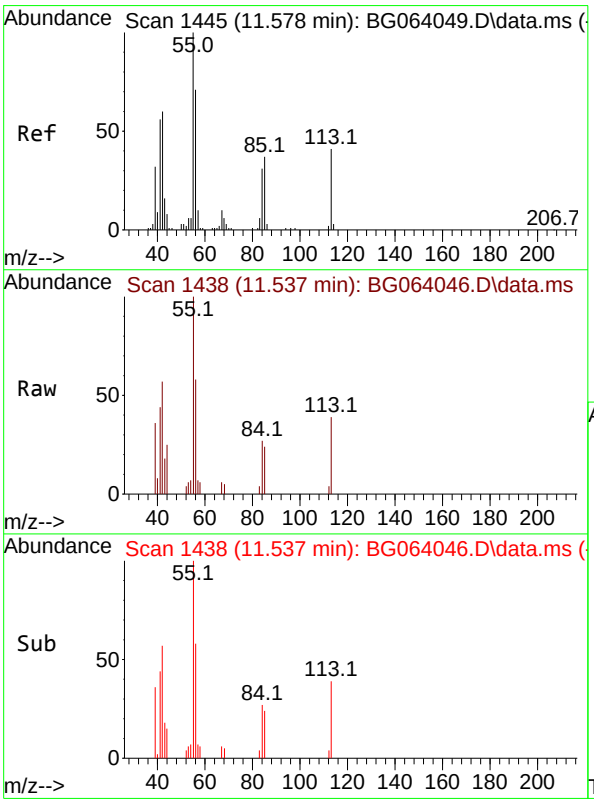
Ion	Ratio	Lower	Upper
225	100		
223	61.2	48.5	72.7
227	50.8	51.0	76.6#



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

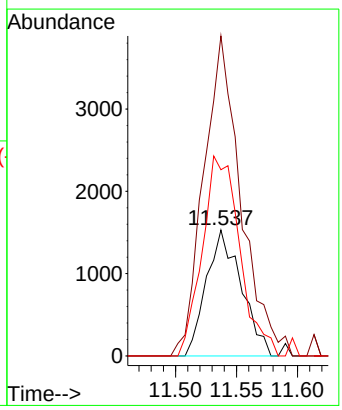
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

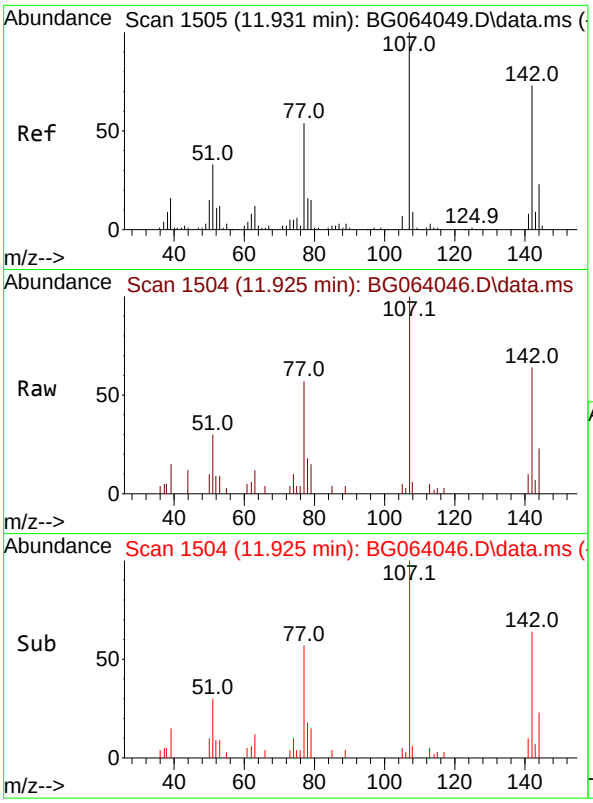


#35
Caprolactam
Concen: 4.090 ng
RT: 11.537 min Scan# 1438
Delta R.T. -0.041 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:113 Resp: 3052

Ion	Ratio	Lower	Upper
113	100		
55	254.1	225.2	265.2
56	147.8	153.4	193.4#

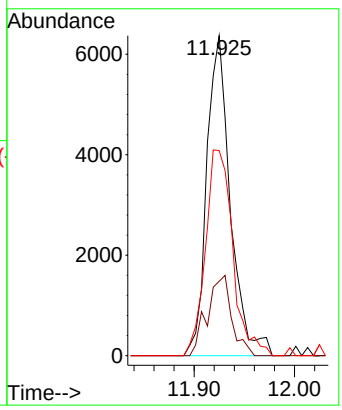




#36
4-Chloro-3-methylphenol
Concen: 4.078 ng
RT: 11.925 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:107 Resp: 1040

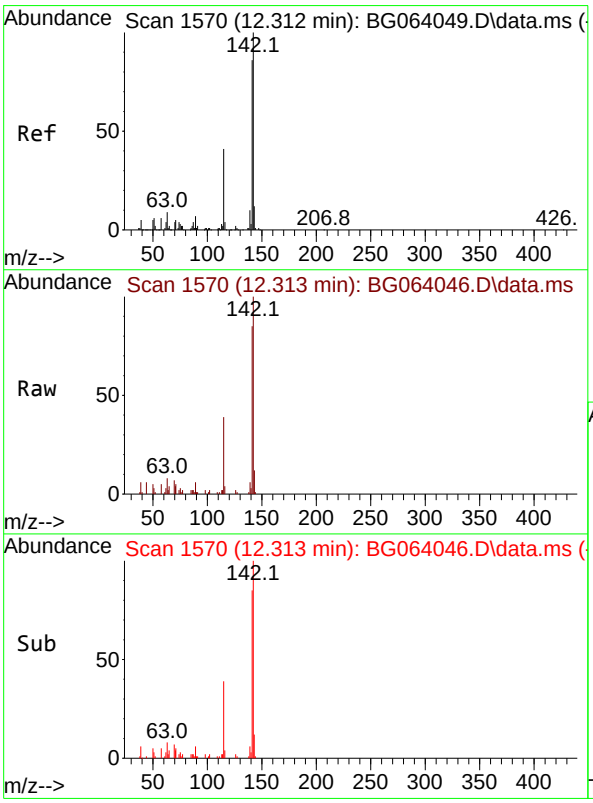
Ion	Ratio	Lower	Upper
107	100		
144	23.2	18.6	28.0
142	64.1	58.0	87.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

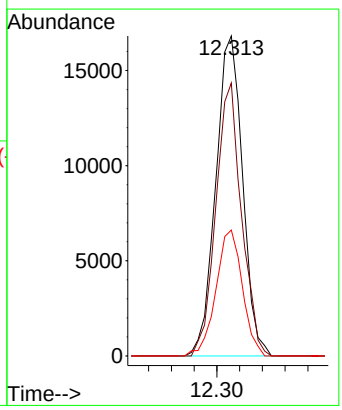
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

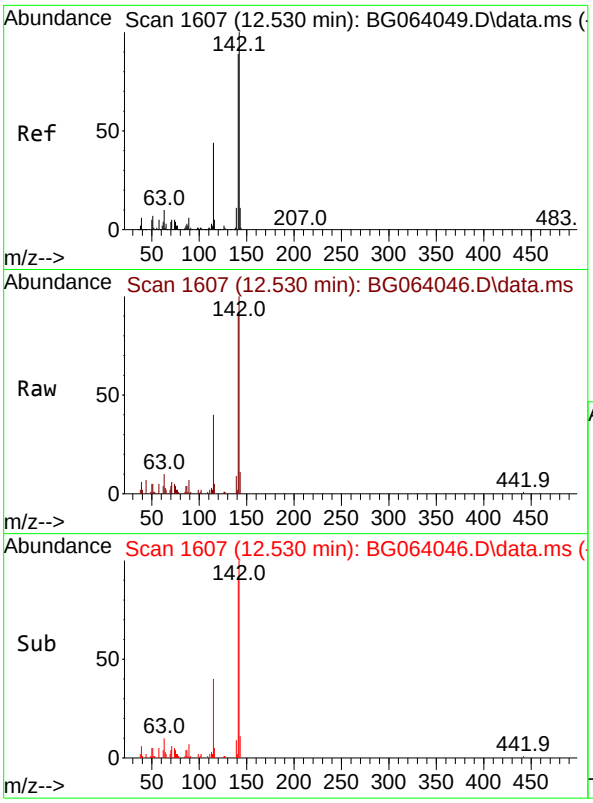


#37
2-Methylnaphthalene
Concen: 5.093 ng
RT: 12.313 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:142 Resp: 27533

Ion	Ratio	Lower	Upper
142	100		
141	85.3	68.6	103.0
115	39.4	32.8	49.2

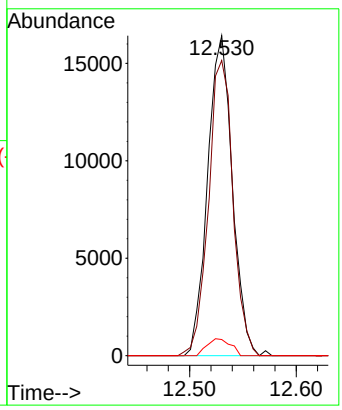




#38
1-Methylnaphthalene
Concen: 4.995 ng
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:142 Resp: 2645

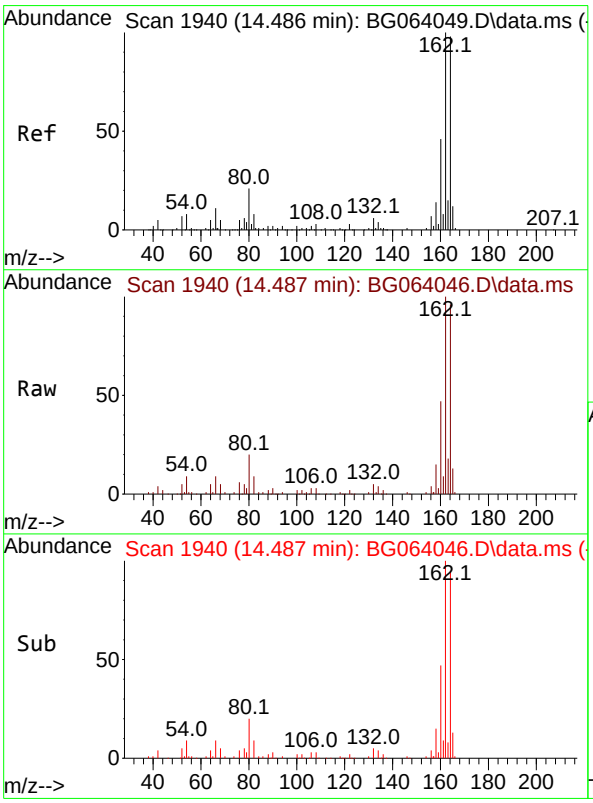
Ion	Ratio	Lower	Upper
142	100		
141	92.2	71.2	106.8
116	5.0	3.6	5.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

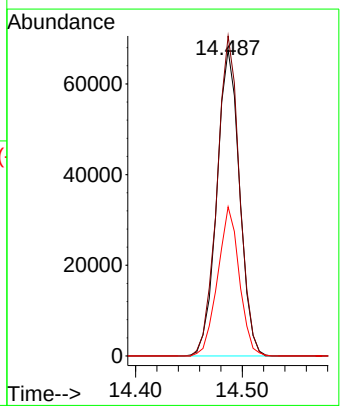
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

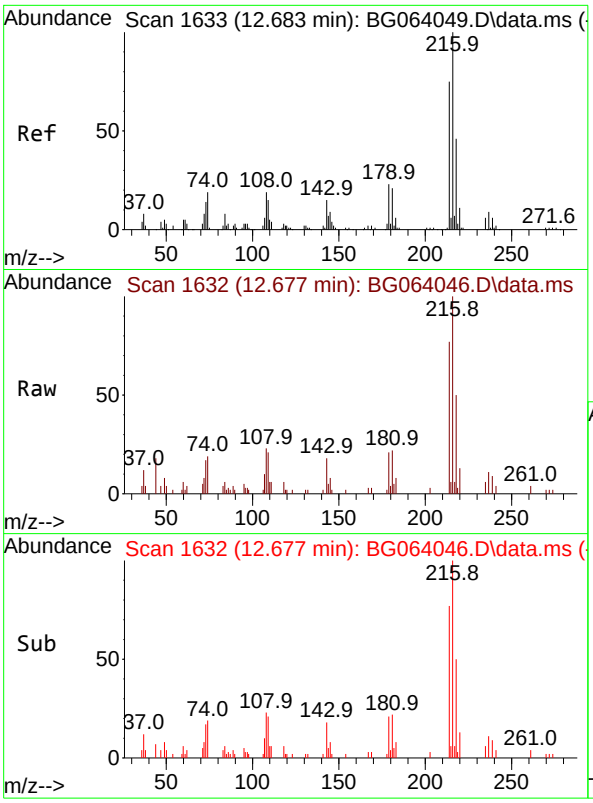


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.487 min Scan# 1940
Delta R.T. 0.001 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:164 Resp: 99722

Ion	Ratio	Lower	Upper
164	100		
162	104.5	81.4	122.0
160	48.7	37.0	55.6

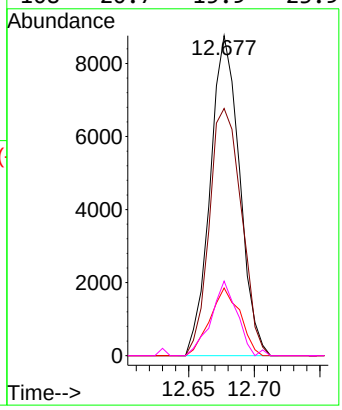




#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.789 ng
RT: 12.677 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:216 Resp: 1363

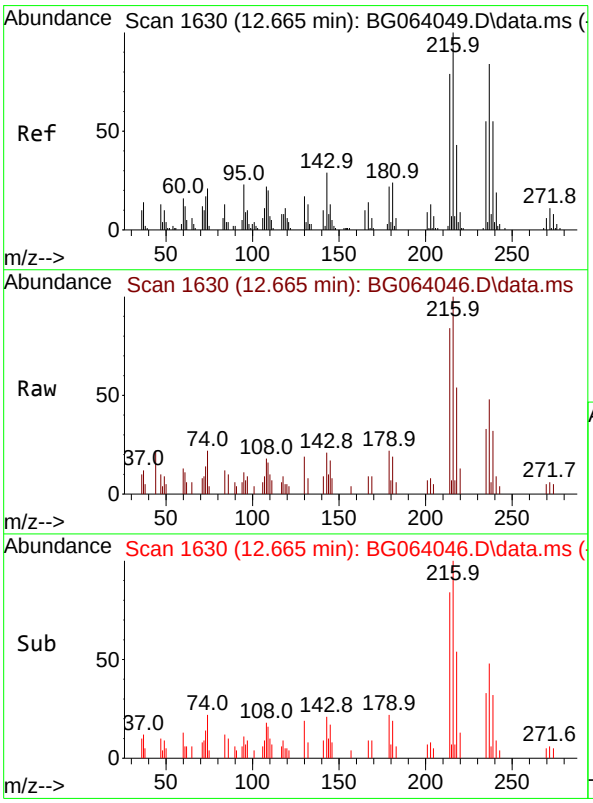
Ion	Ratio	Lower	Upper
216	100		
214	84.2	61.7	92.5
179	21.6	17.9	26.9
108	20.7	15.9	23.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

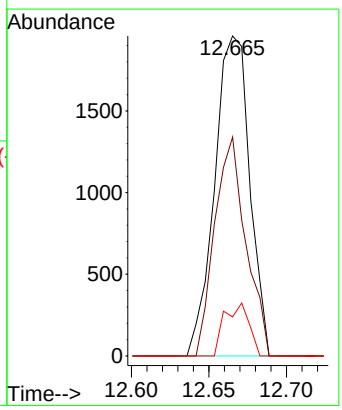
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

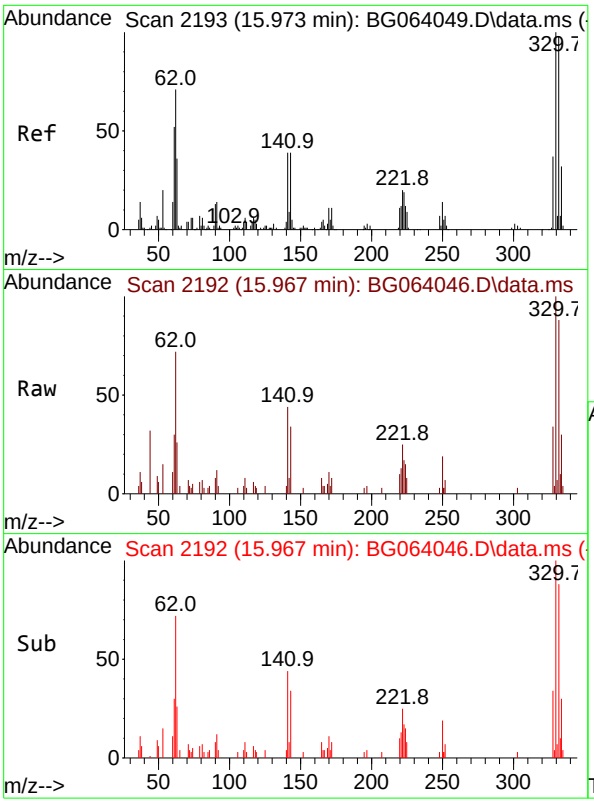


#41
Hexachlorocyclopentadiene
Concen: 3.841 ng
RT: 12.665 min Scan# 1630
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:237 Resp: 3078

Ion	Ratio	Lower	Upper
237	100		
235	68.4	46.0	86.0
272	12.2	0.0	32.8

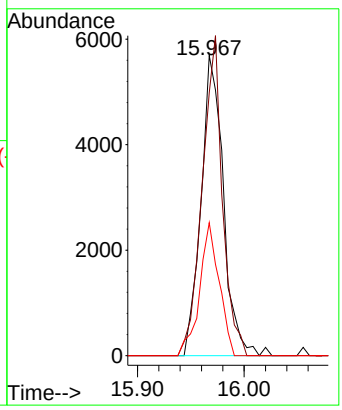




#42
2,4,6-Tribromophenol
Concen: 7.487 ng
RT: 15.967 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:330 Resp: 829

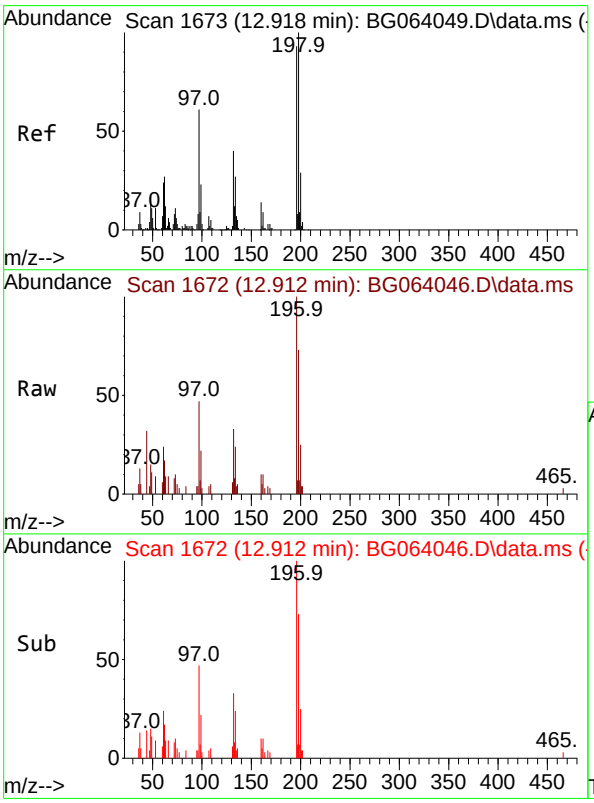
Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.7	115.1
141	38.7	29.7	44.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

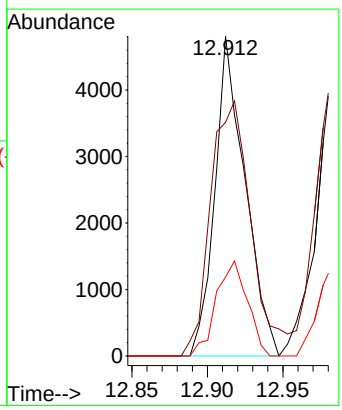
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

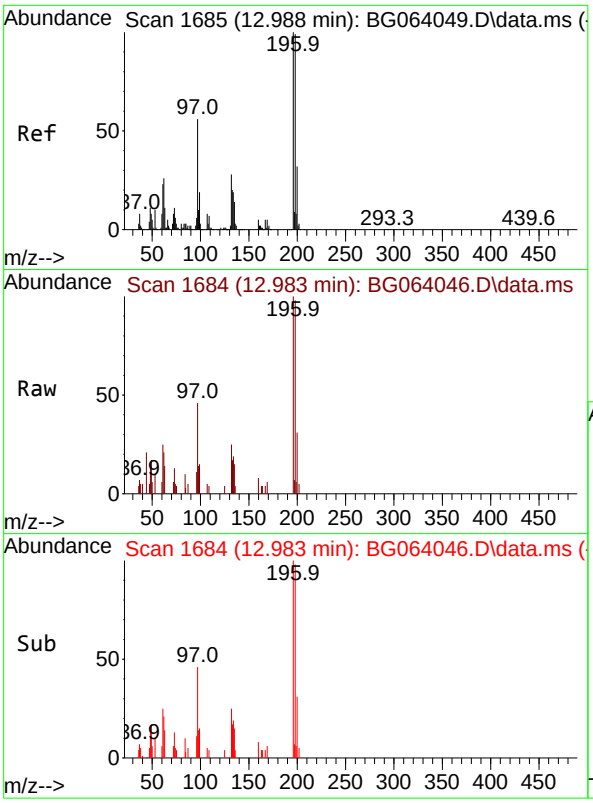


#43
2,4,6-Trichlorophenol
Concen: 3.983 ng m
RT: 12.912 min Scan# 1672
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:196 Resp: 6684

Ion	Ratio	Lower	Upper
196	100		
198	73.0	85.6	128.4#
200	24.6	24.6	37.0

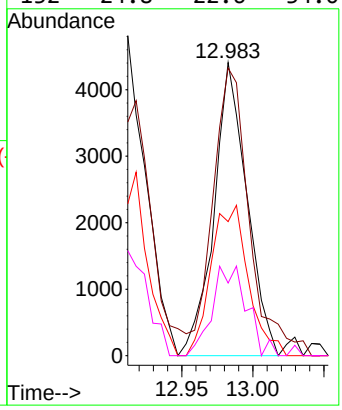




#44
2,4,5-Trichlorophenol
Concen: 3.804 ng
RT: 12.983 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:196 Resp: 709

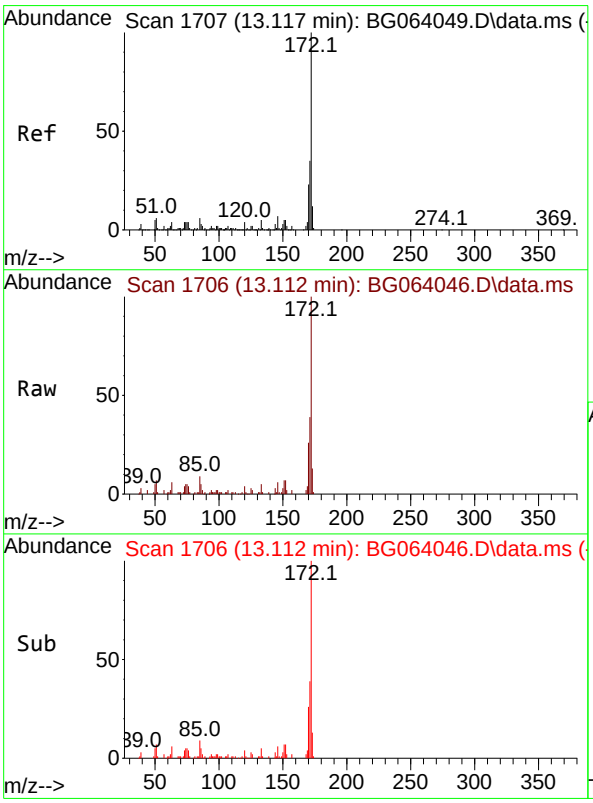
Ion	Ratio	Lower	Upper
196	100		
198	98.2	79.5	119.3
97	45.7	45.2	67.8
132	24.8	22.6	34.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

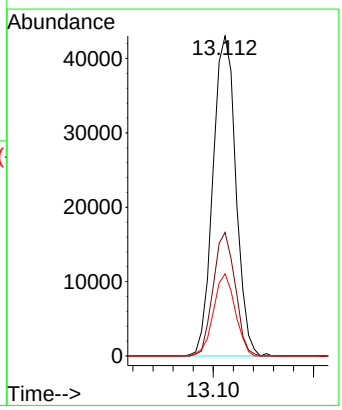
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

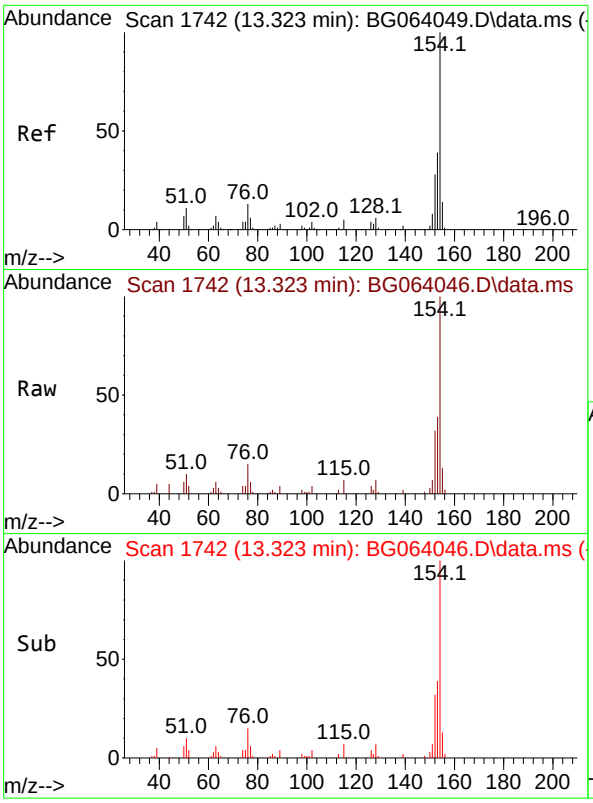


#45
2-Fluorobiphenyl
Concen: 10.386 ng
RT: 13.112 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:172 Resp: 68235

Ion	Ratio	Lower	Upper
172	100		
171	38.6	28.0	42.0
170	25.7	18.7	28.1

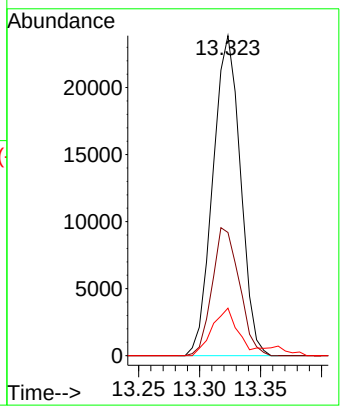




#46
1,1'-Biphenyl
Concen: 4.984 ng
RT: 13.323 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:154 Resp: 3755

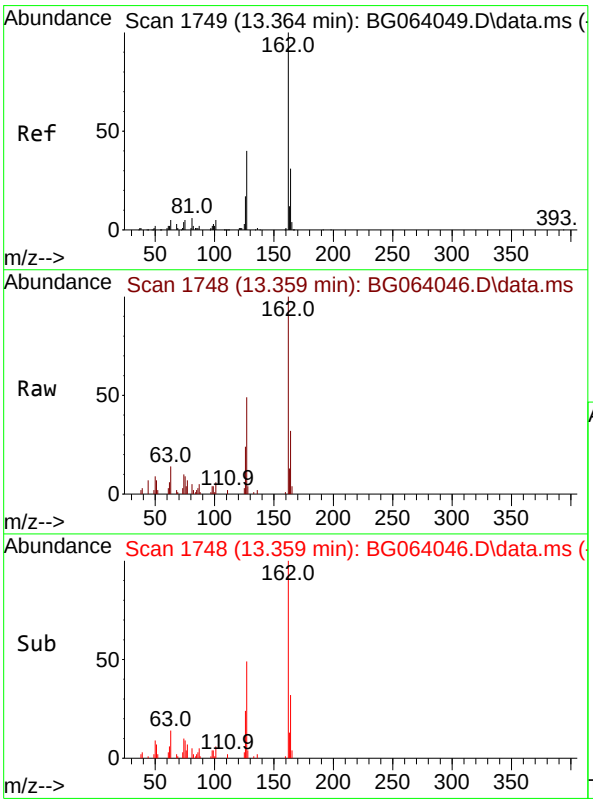
Ion	Ratio	Lower	Upper
154	100		
153	38.5	19.5	59.5
76	14.8	0.0	33.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

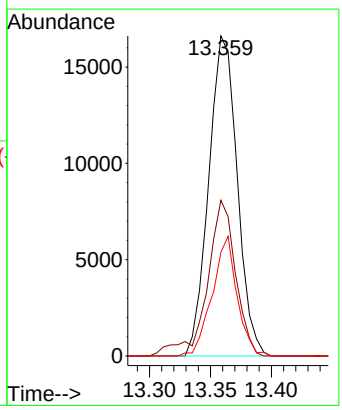
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

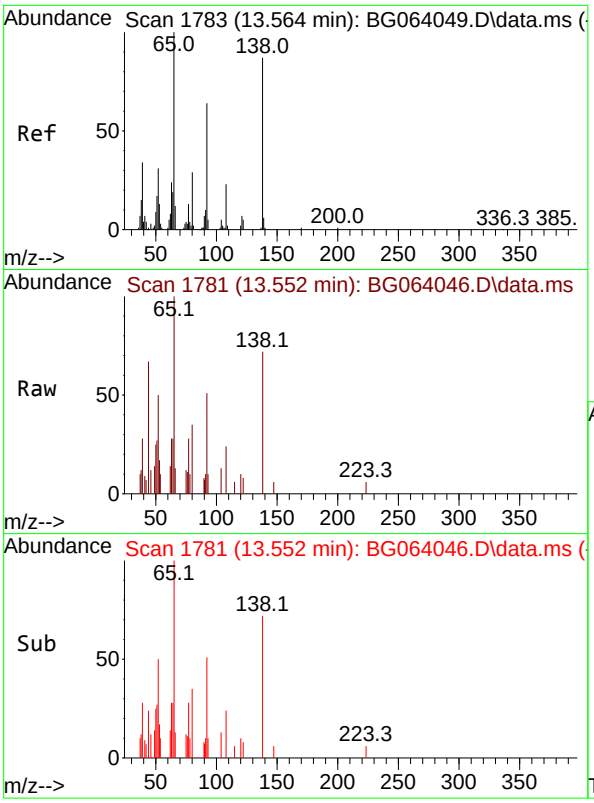


#47
2-Chloronaphthalene
Concen: 4.928 ng
RT: 13.359 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:162 Resp: 27076

Ion	Ratio	Lower	Upper
162	100		
127	48.7	35.0	52.4
164	32.4	25.0	37.6

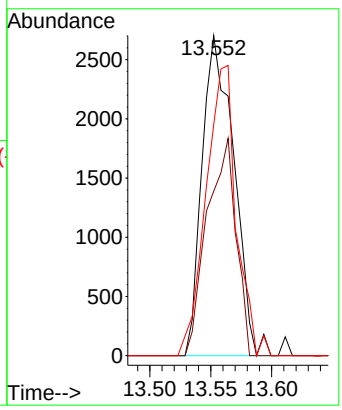




#48
2-Nitroaniline
Concen: 6.075 ng
RT: 13.552 min Scan# 1
Delta R.T. -0.012 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 65 Resp: 490

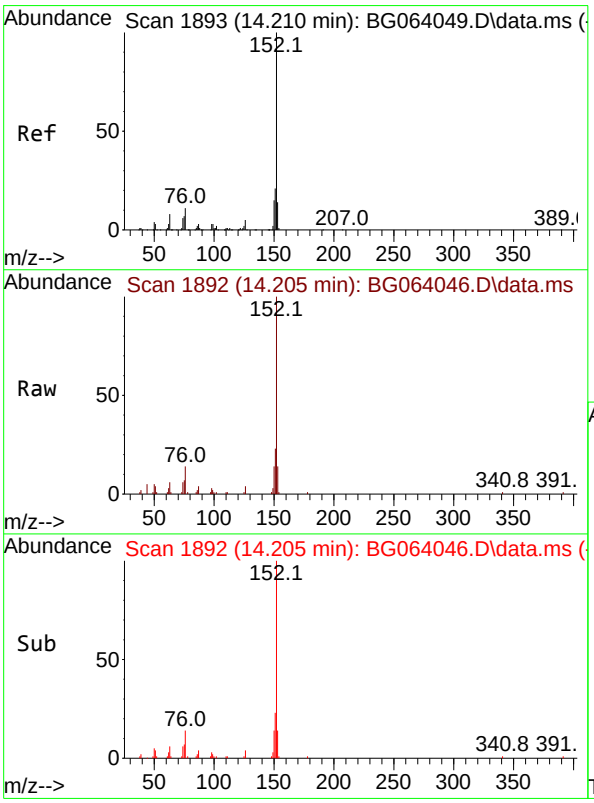
Ion	Ratio	Lower	Upper
65	100		
92	51.4	51.2	76.8
138	72.2	69.4	104.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

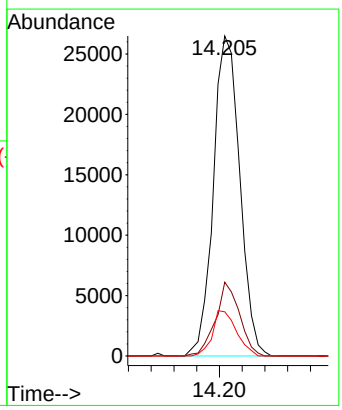
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

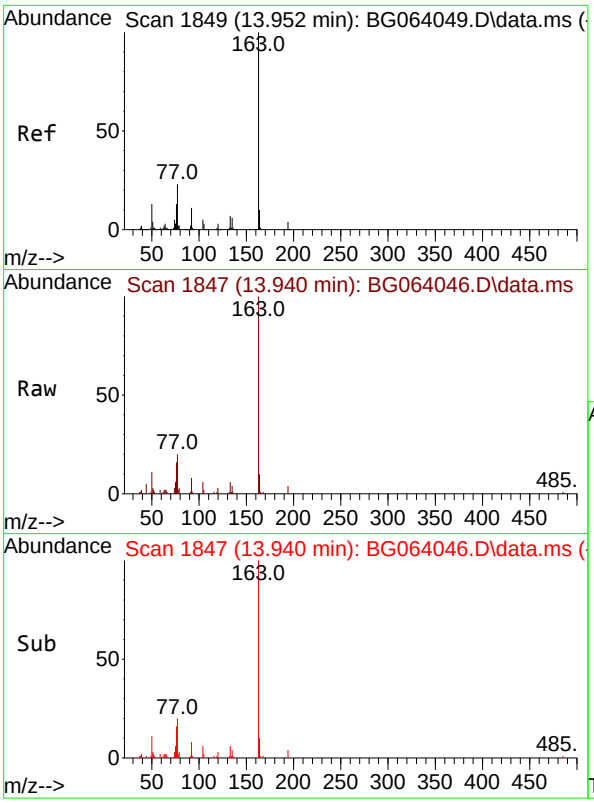


#49
Acenaphthylene
Concen: 4.917 ng
RT: 14.205 min Scan# 1892
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:152 Resp: 42736

Ion	Ratio	Lower	Upper
152	100		
151	23.1	16.4	24.6
153	13.8	10.9	16.3

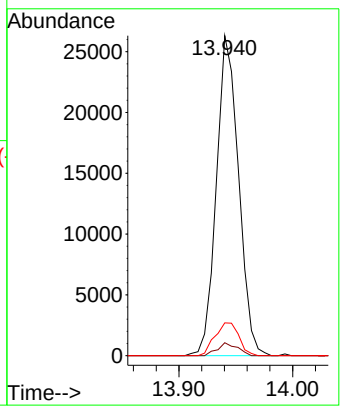




#50
Dimethylphthalate
Concen: 4.849 ng
RT: 13.940 min Scan# 1
Delta R.T. -0.011 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:163 Resp: 3569

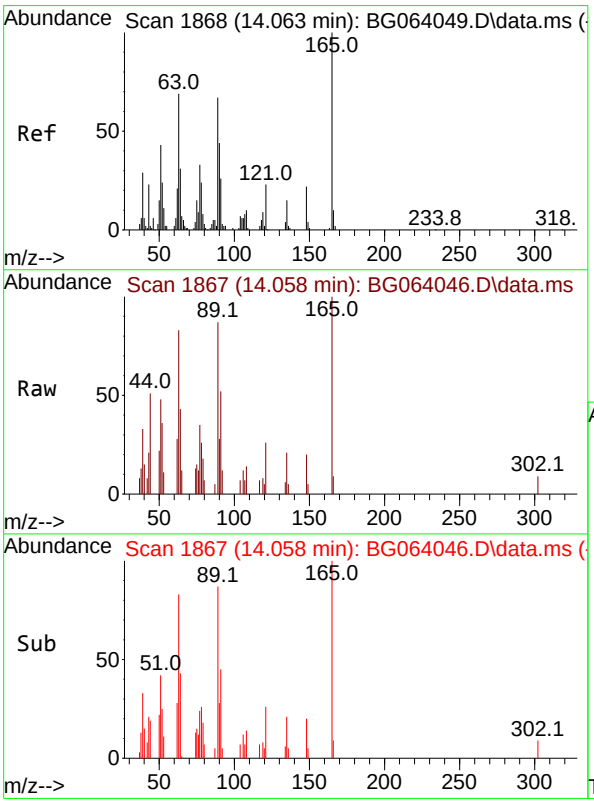
Ion	Ratio	Lower	Upper
163	100		
194	4.1	2.8	4.2
164	10.2	8.2	12.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

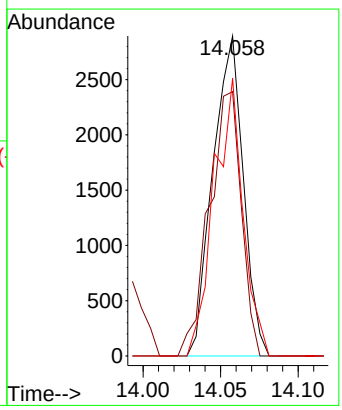
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

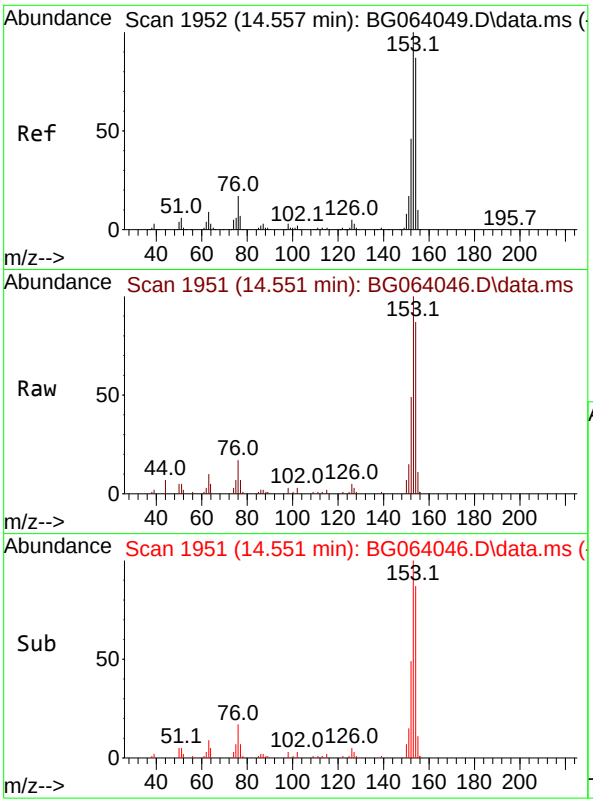


#51
2,6-Dinitrotoluene
Concen: 5.812 ng
RT: 14.058 min Scan# 1867
Delta R.T. -0.005 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:165 Resp: 3942

Ion	Ratio	Lower	Upper
165	100		
63	82.6	56.7	85.1
89	86.8	53.7	80.5#

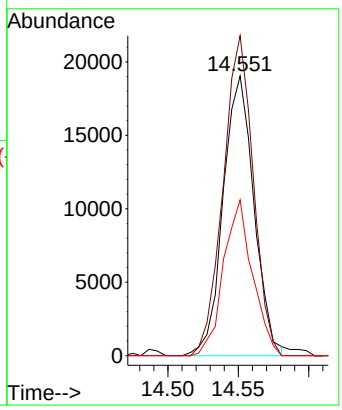




#52
Acenaphthene
Concen: 4.969 ng m
RT: 14.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:154 Resp: 2904

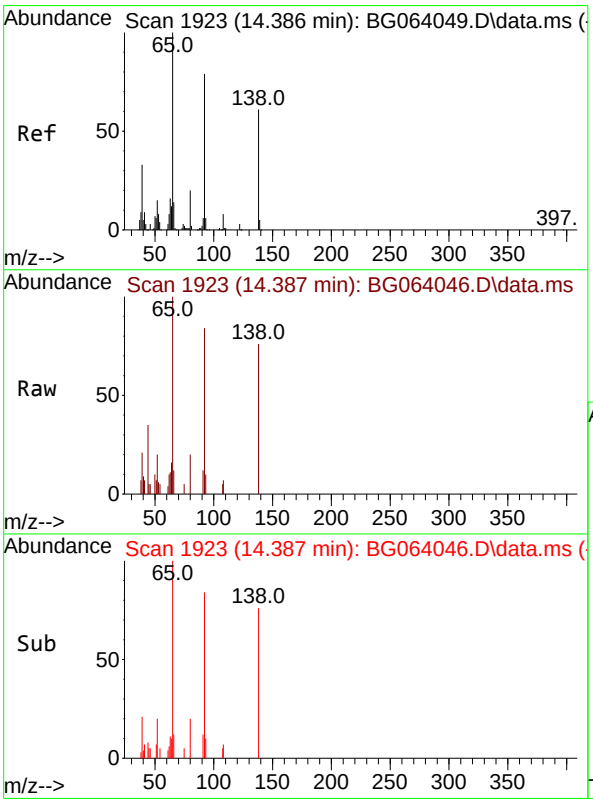
Ion	Ratio	Lower	Upper
154	100		
153	114.4	91.6	137.4
152	55.7	42.5	63.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

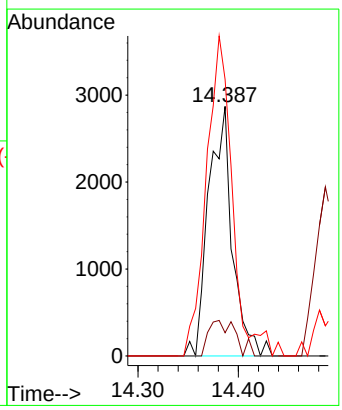
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

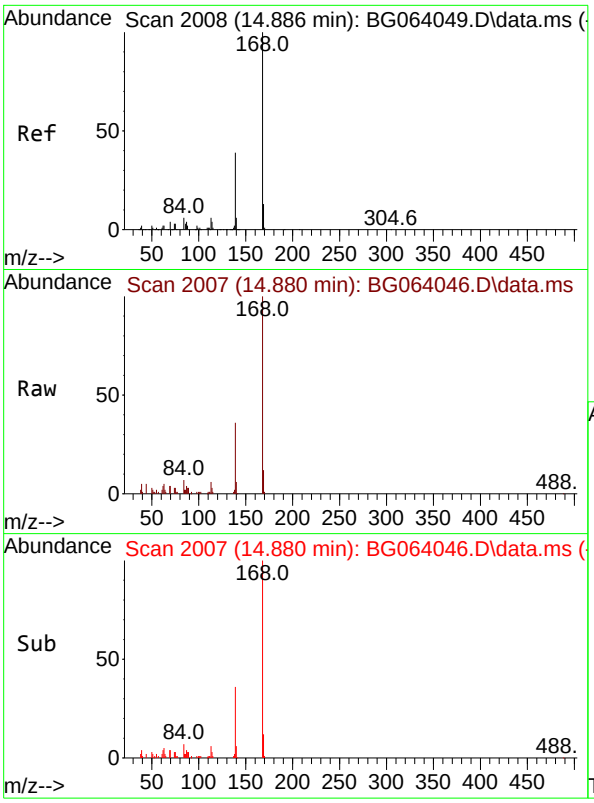


#53
3-Nitroaniline
Concen: 3.329 ng
RT: 14.387 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:138 Resp: 4736

Ion	Ratio	Lower	Upper
138	100		
108	9.3	10.1	15.1#
92	110.9	104.1	156.1

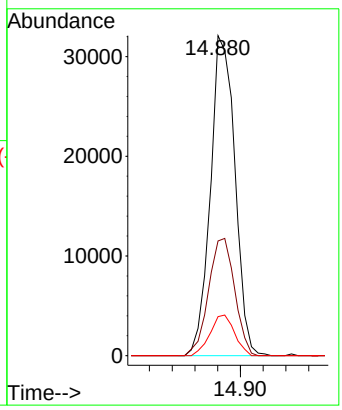




#55
Dibenzofuran
Concen: 5.080 ng
RT: 14.880 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:168 Resp: 4800

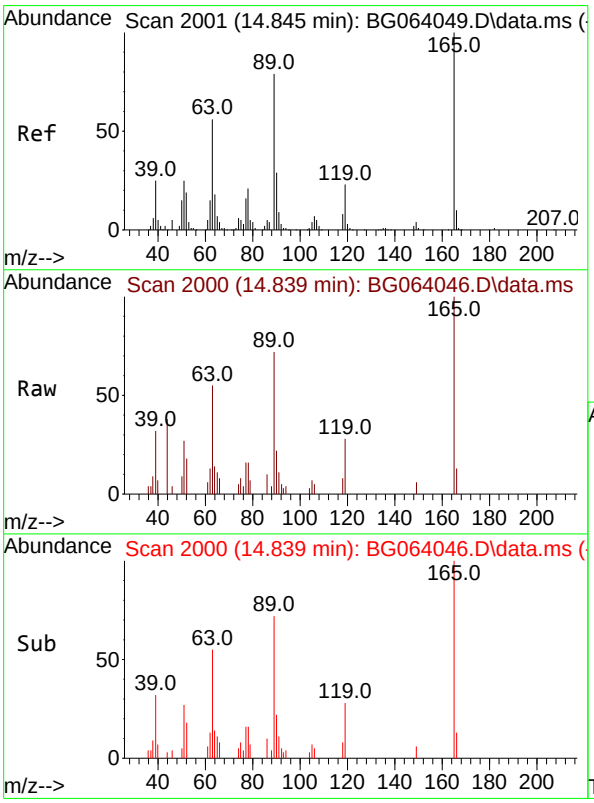
Ion	Ratio	Lower	Upper
168	100		
139	35.8	31.1	46.7
169	12.2	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

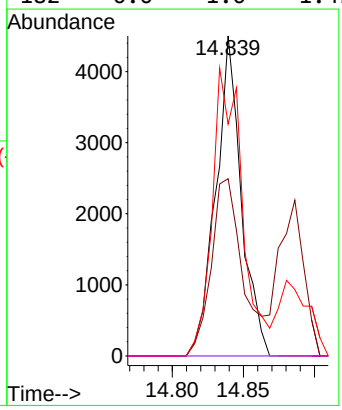
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

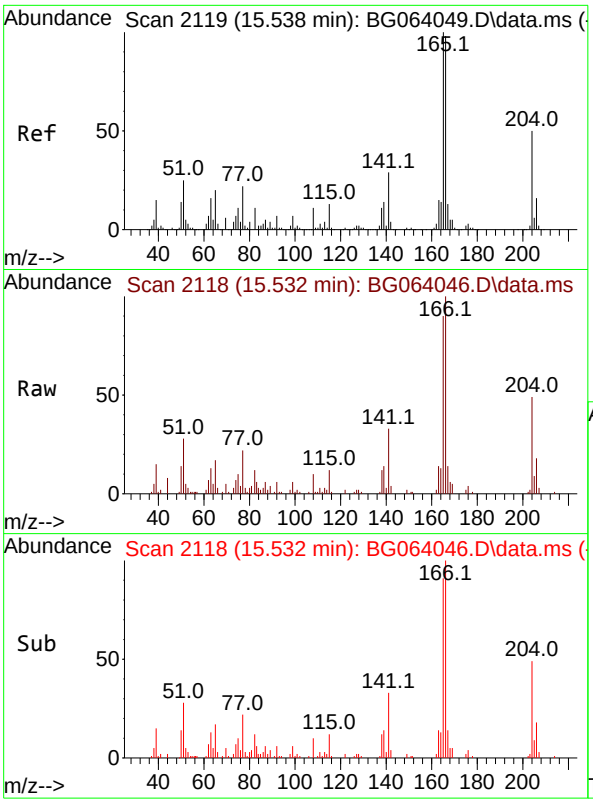


#57
2,4-Dinitrotoluene
Concen: 6.165 ng
RT: 14.839 min Scan# 2000
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:165 Resp: 5618

Ion	Ratio	Lower	Upper
165	100		
63	55.4	45.0	67.6
89	72.5	63.1	94.7
182	0.0	1.0	1.4#

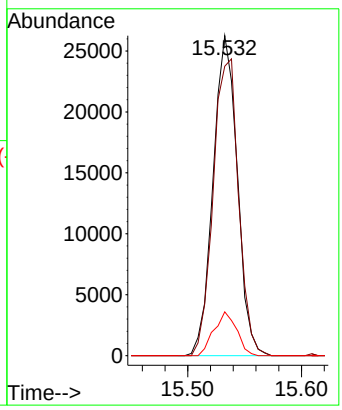




#58
Fluorene
Concen: 5.269 ng
RT: 15.532 min Scan# 21
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:166 Resp: 3877

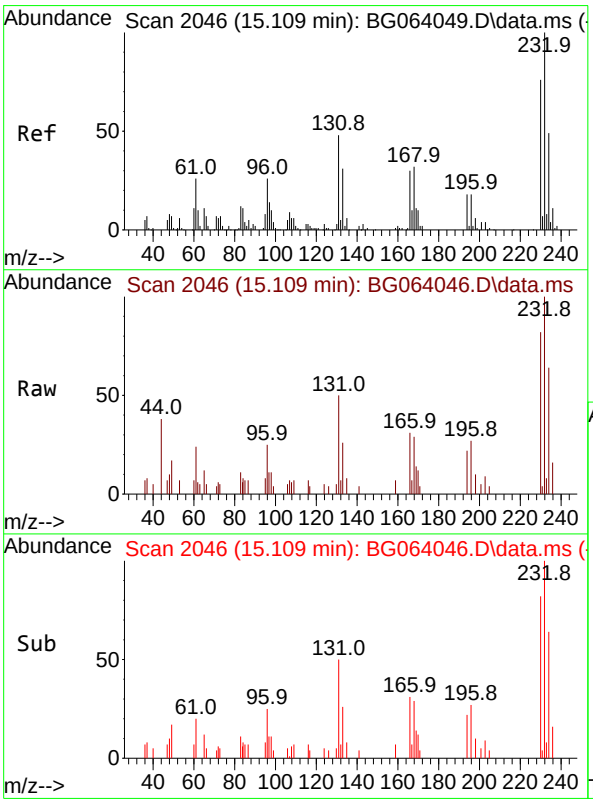
Ion	Ratio	Lower	Upper
166	100		
165	90.4	81.8	122.8
167	13.7	10.8	16.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

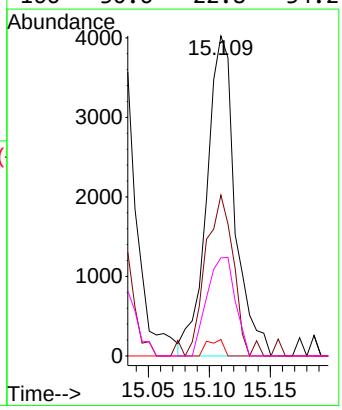
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

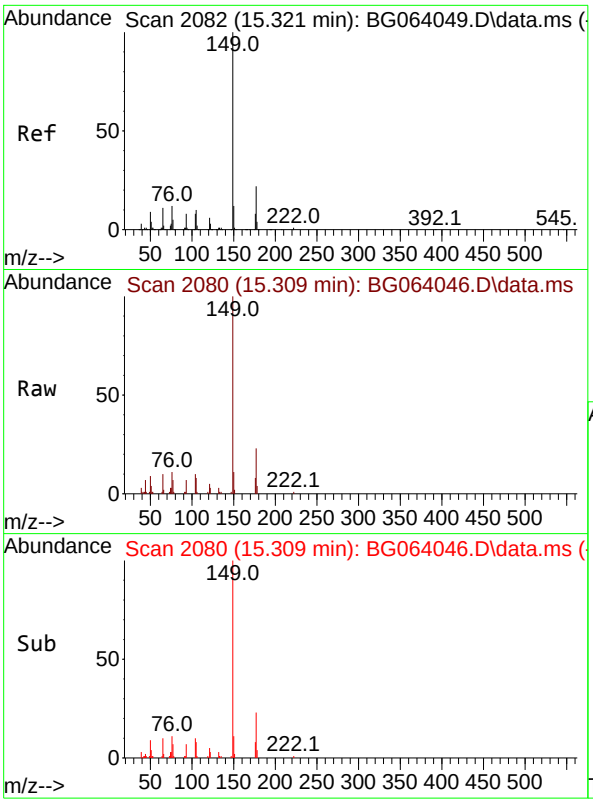


#59
2,3,4,6-Tetrachlorophenol
Concen: 3.597 ng
RT: 15.109 min Scan# 2046
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:232 Resp: 6538

Ion	Ratio	Lower	Upper
232	100		
131	50.2	36.3	54.5
130	3.0	1.9	2.9#
166	30.6	22.8	34.2

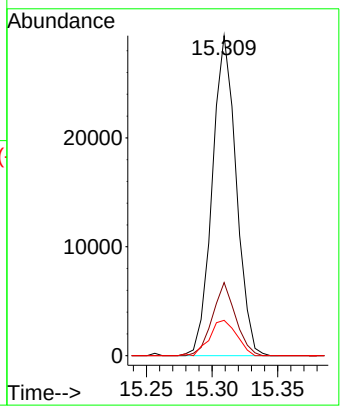




#60
Diethylphthalate
Concen: 4.666 ng
RT: 15.309 min Scan# 2
Delta R.T. -0.011 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:149 Resp: 3728

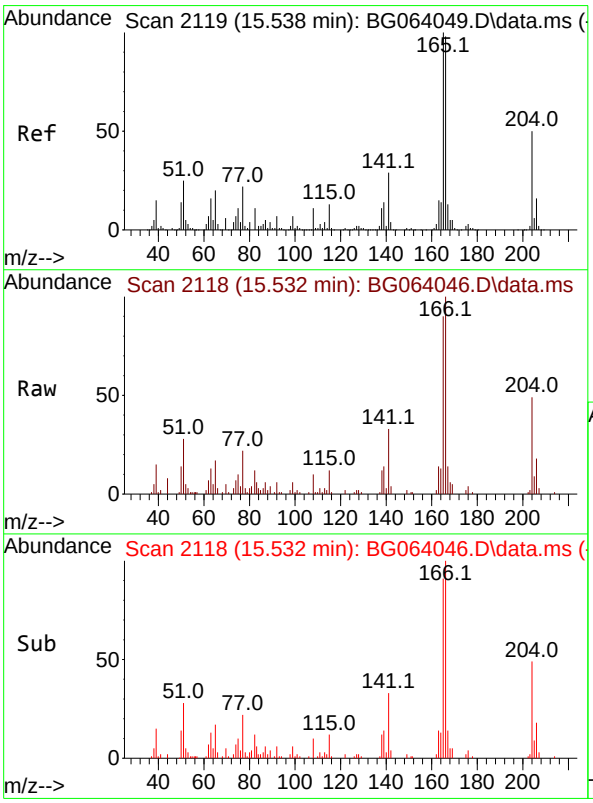
Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.4	26.2
150	11.0	9.4	14.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

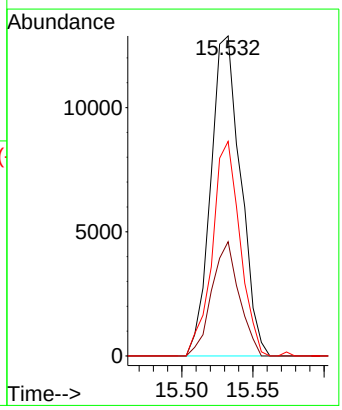
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

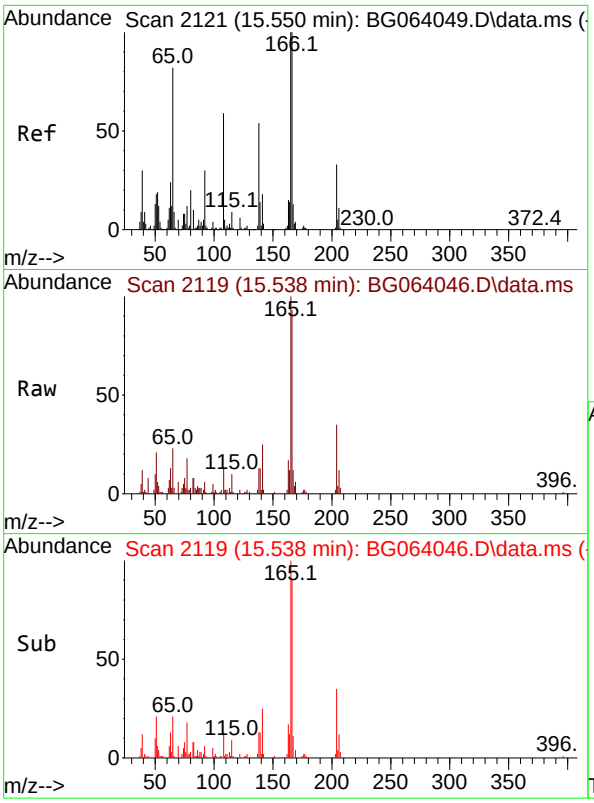


#61
4-Chlorophenyl-phenylether
Concen: 5.142 ng
RT: 15.532 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:204 Resp: 18807

Ion	Ratio	Lower	Upper
204	100		
206	35.7	25.5	38.3
141	67.1	45.4	68.0

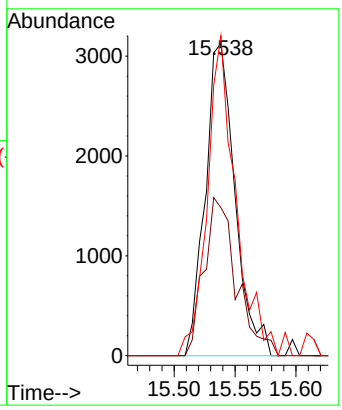




#62
4-Nitroaniline
Concen: 3.460 ng
RT: 15.538 min Scan# 2
Delta R.T. -0.011 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:138 Resp: 531

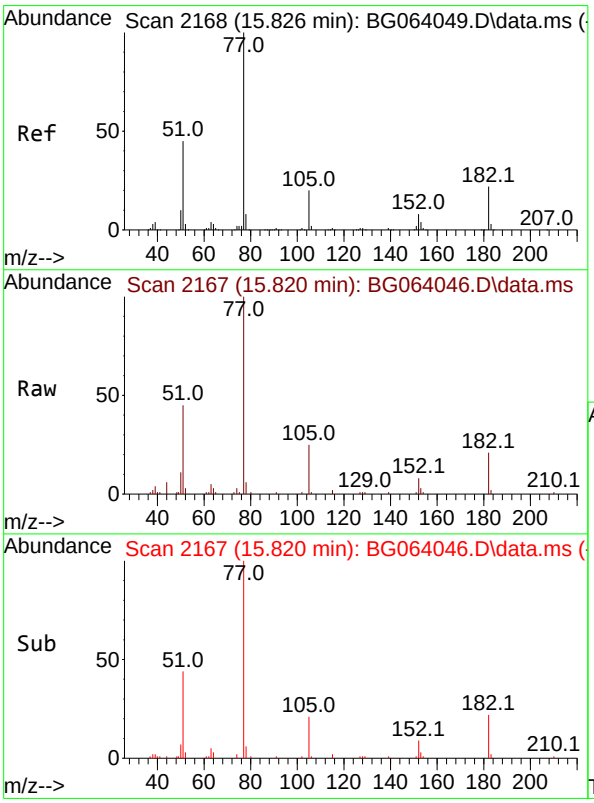
Ion	Ratio	Lower	Upper
138	100		
92	47.4	36.1	76.1
108	102.5	87.9	127.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

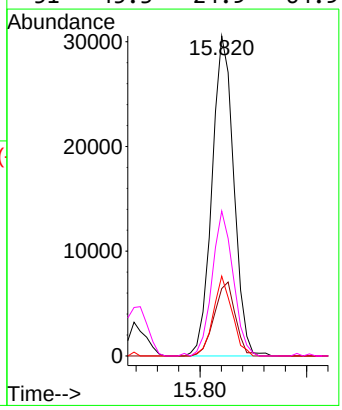
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

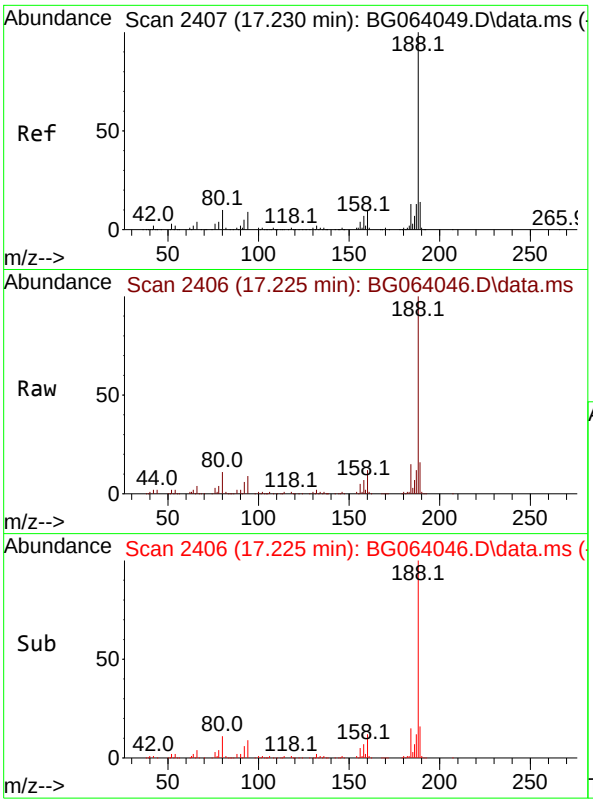


#63
Azobenzene
Concen: 5.070 ng
RT: 15.820 min Scan# 2167
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion: 77 Resp: 43236

Ion	Ratio	Lower	Upper
77	100		
182	21.1	2.4	42.4
105	25.0	0.0	40.0
51	45.3	24.9	64.9

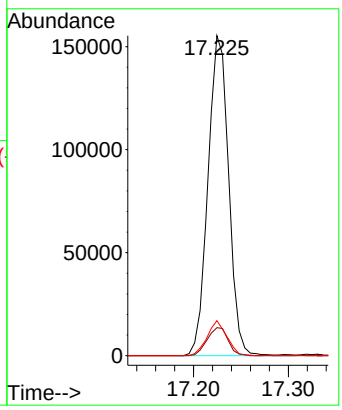




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.225 min Scan# 24
Delta R.T. -0.005 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:188 Resp: 23486

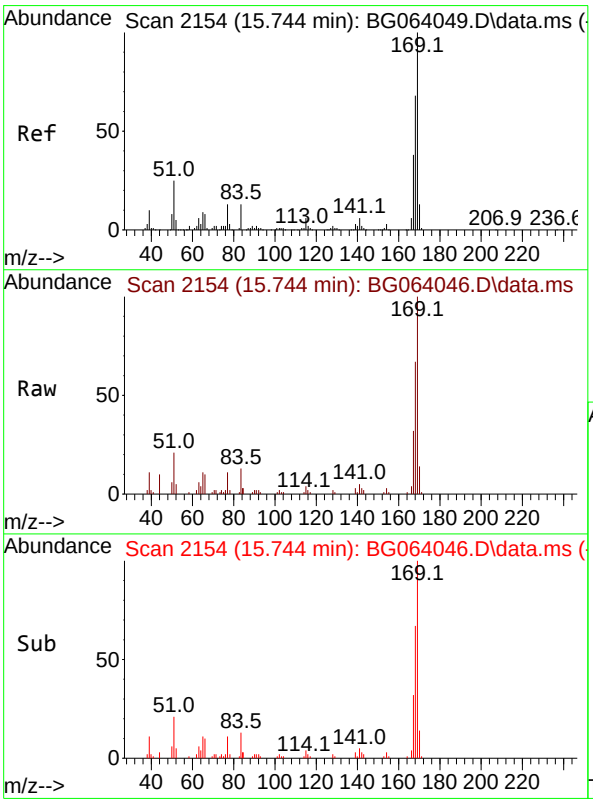
Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.9	10.3
80	10.9	8.1	12.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

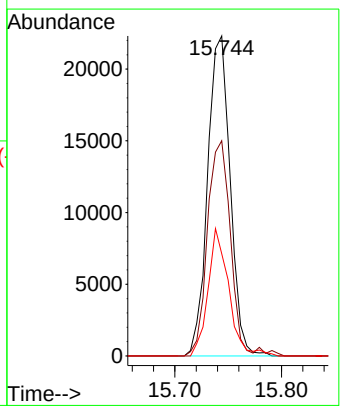
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

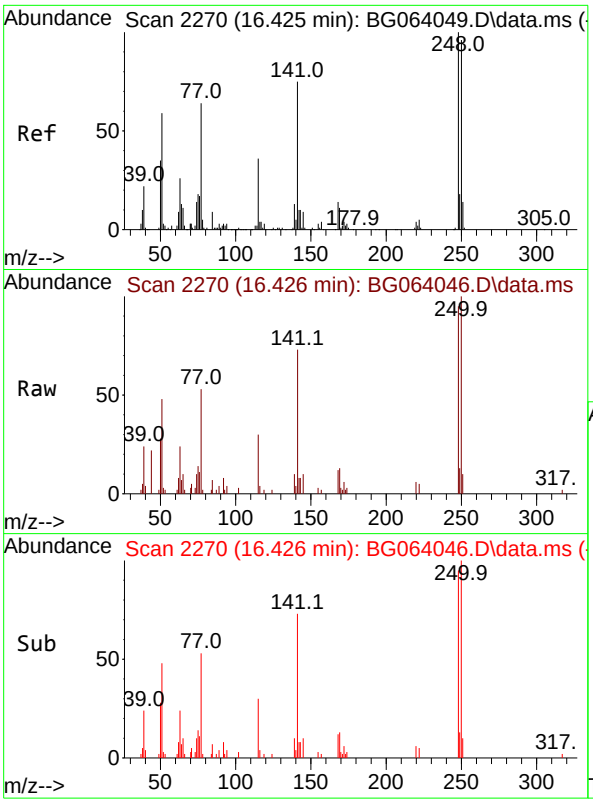


#66
n-Nitrosodiphenylamine
Concen: 4.927 ng
RT: 15.744 min Scan# 2154
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:169 Resp: 32754

Ion	Ratio	Lower	Upper
169	100		
168	67.3	54.1	81.1
167	32.0	30.3	45.5

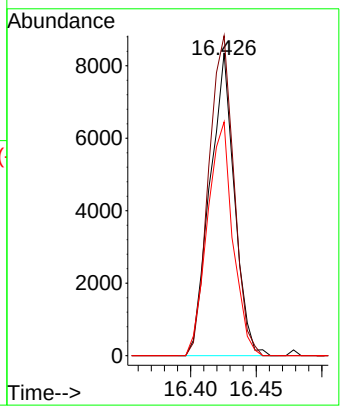




#67
4-Bromophenyl-phenylether
Concen: 4.531 ng
RT: 16.426 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:248 Resp: 1089

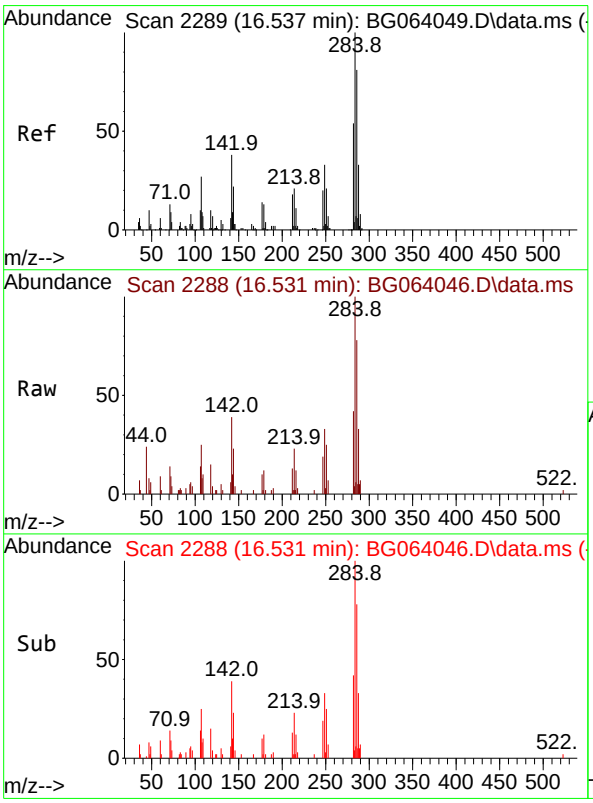
Ion	Ratio	Lower	Upper
248	100		
250	105.6	77.1	115.7
141	77.2	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

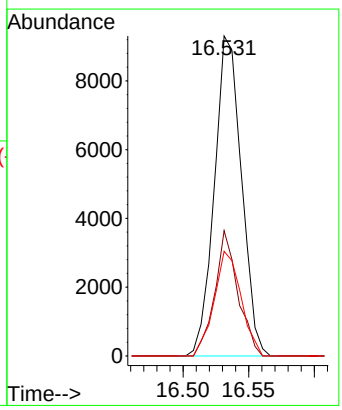
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

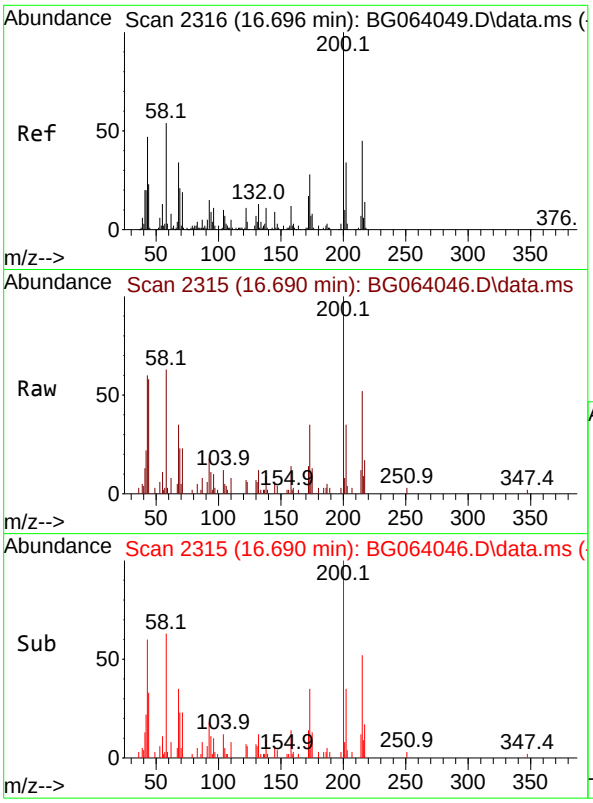


#68
Hexachlorobenzene
Concen: 4.958 ng
RT: 16.531 min Scan# 2288
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:284 Resp: 13351

Ion	Ratio	Lower	Upper
284	100		
142	39.1	30.6	45.8
249	32.7	26.6	39.8

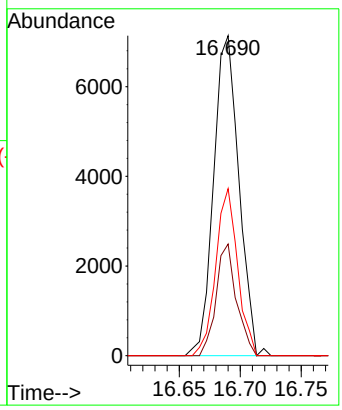




#69
Atrazine
Concen: 5.264 ng
RT: 16.690 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:200 Resp: 1029

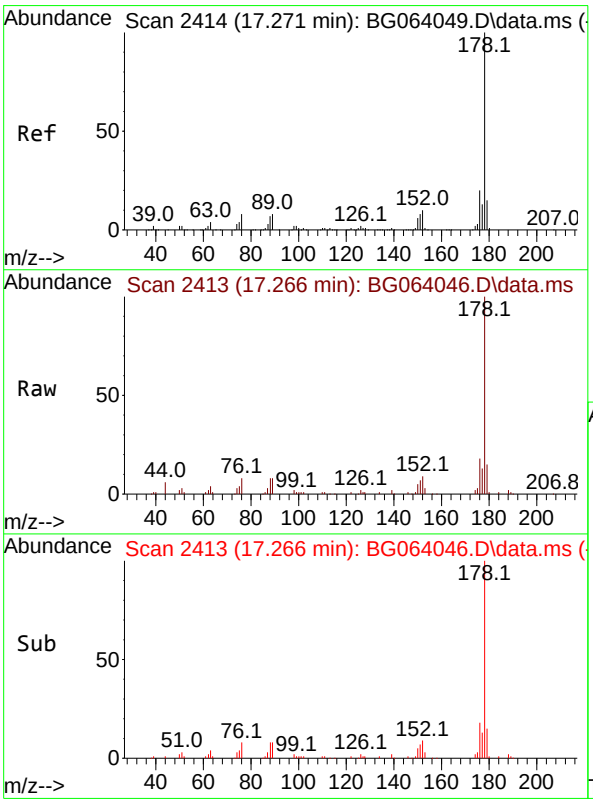
Ion	Ratio	Lower	Upper
200	100		
173	34.9	8.2	48.2
215	52.2	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

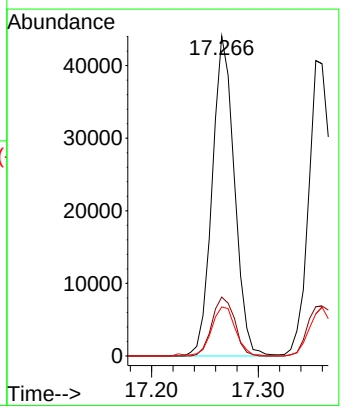
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

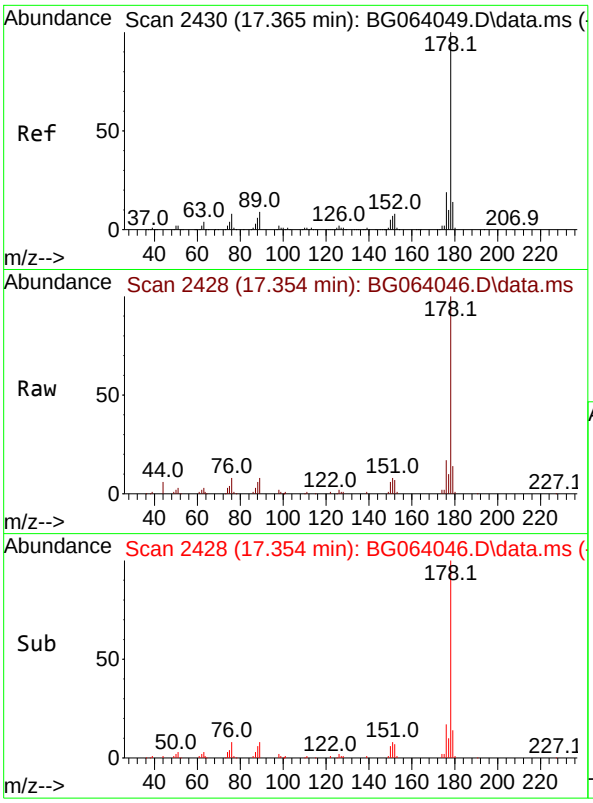


#71
Phenanthrene
Concen: 5.079 ng
RT: 17.266 min Scan# 2413
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:178 Resp: 63629

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.9	23.9
179	15.3	12.2	18.2

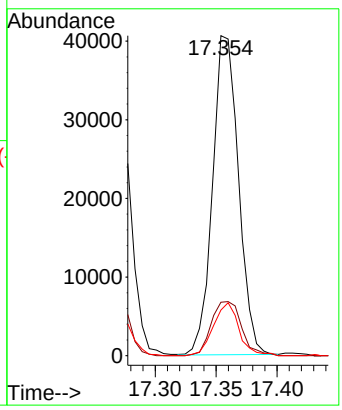




#72
Anthracene
Concen: 4.825 ng
RT: 17.354 min Scan# 24
Delta R.T. -0.011 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:178 Resp: 6010

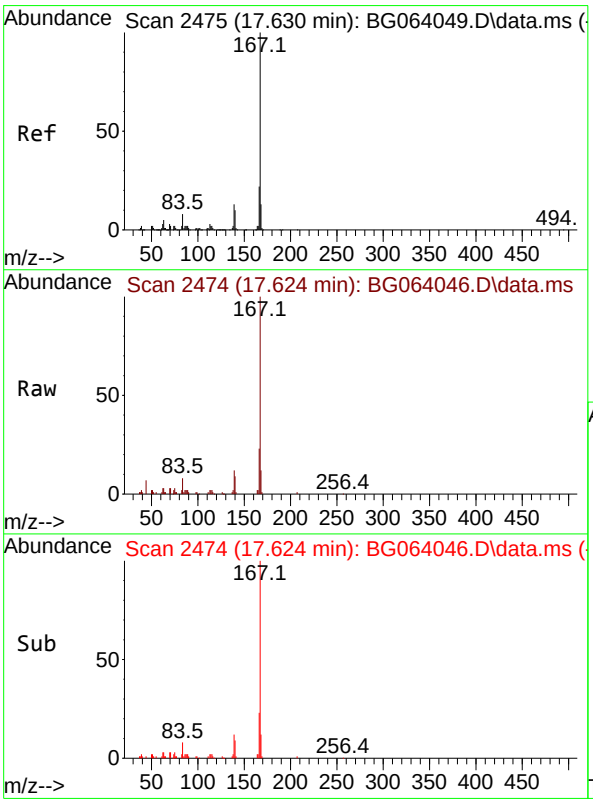
Ion	Ratio	Lower	Upper
178	100		
176	16.7	14.8	22.2
179	14.2	11.5	17.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

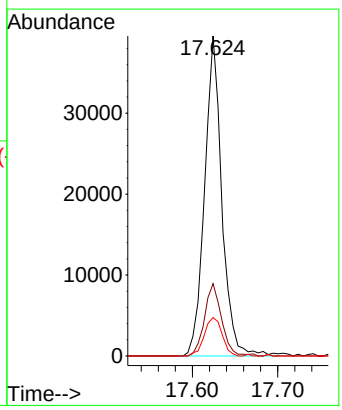
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

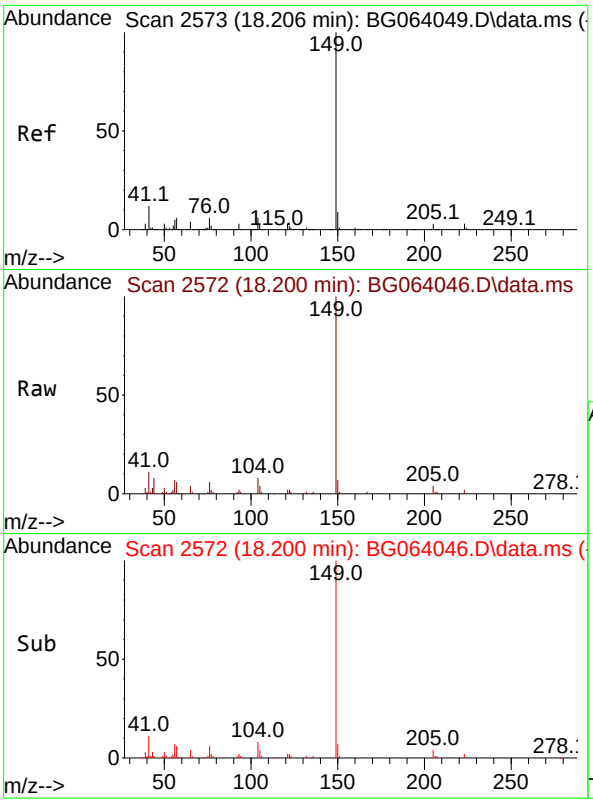


#73
Carbazole
Concen: 4.792 ng
RT: 17.624 min Scan# 2474
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:167 Resp: 55726

Ion	Ratio	Lower	Upper
167	100		
166	22.6	18.0	27.0
139	12.0	10.6	15.8

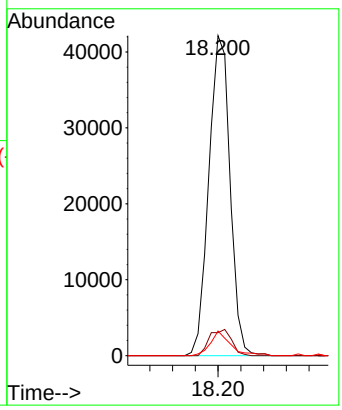




#74
Di-n-butylphthalate
Concen: 3.996 ng
RT: 18.200 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:149 Resp: 5470

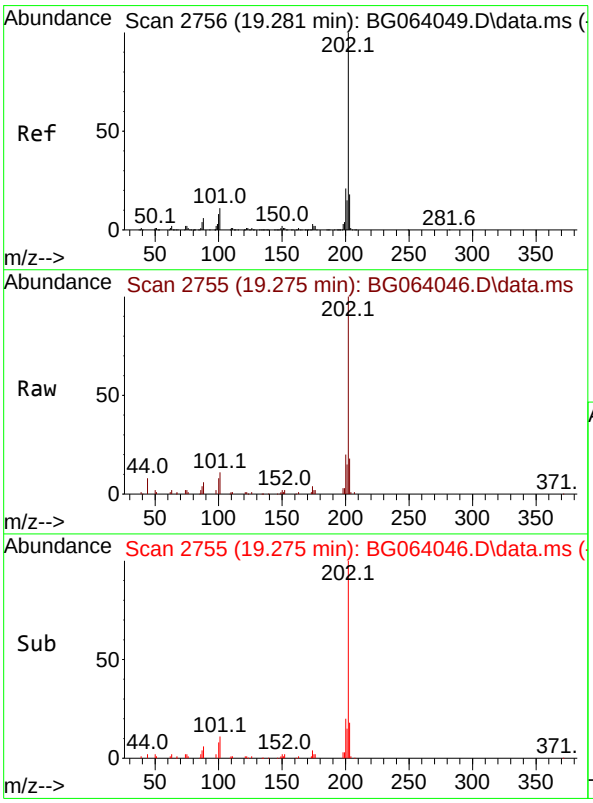
Ion	Ratio	Lower	Upper
149	100		
150	7.2	7.4	11.0#
104	7.7	5.0	7.6#



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

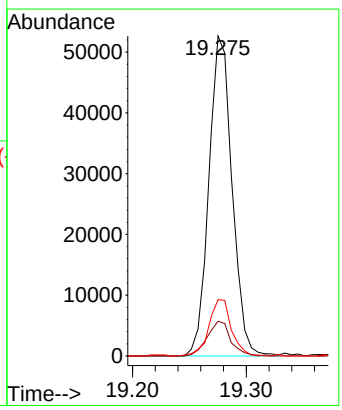
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

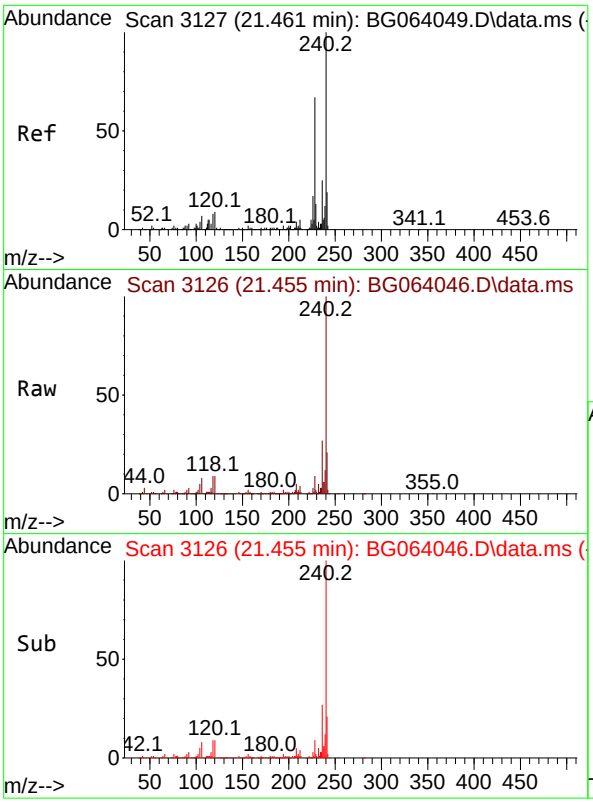


#75
Fluoranthene
Concen: 4.946 ng
RT: 19.275 min Scan# 2755
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:202 Resp: 74694

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	30.5
203	17.6	0.0	38.3

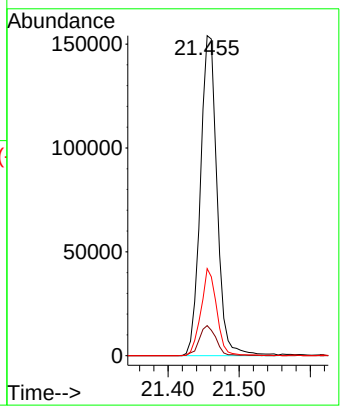




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.455 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:240 Resp: 25157

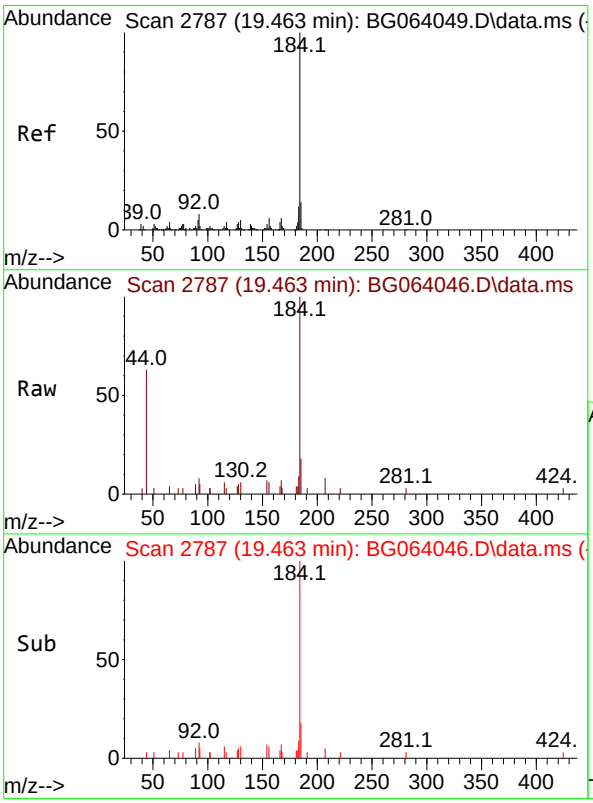
Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.2	10.8
236	27.2	20.2	30.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

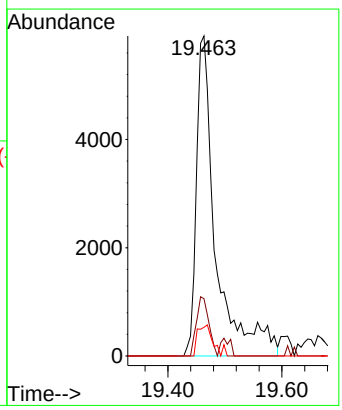
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

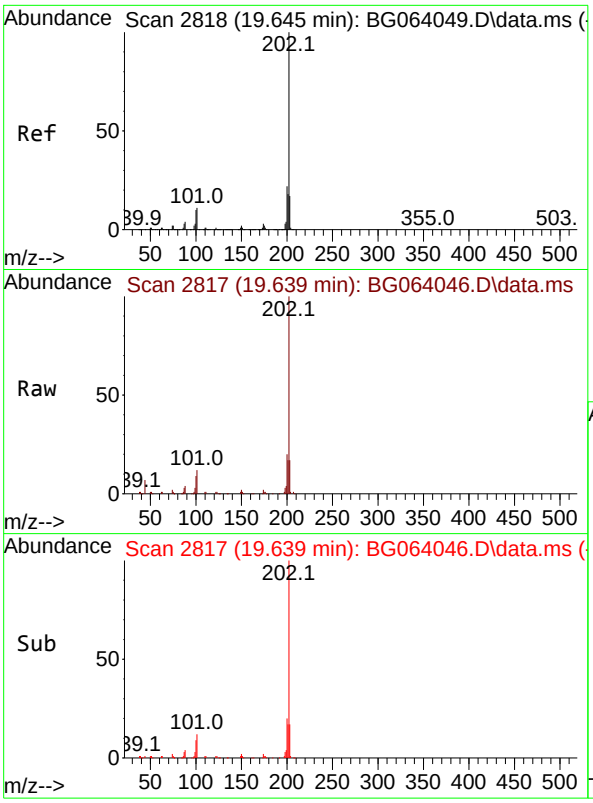


#77
Benzidine
Concen: 3.941 ng m
RT: 19.463 min Scan# 2787
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:184 Resp: 13919

Ion	Ratio	Lower	Upper
184	100		
185	17.9	11.3	16.9#
183	9.0	9.5	14.3#

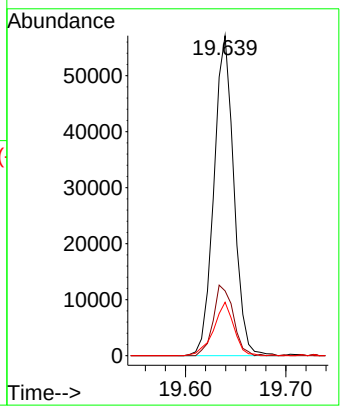




#78
Pyrene
Concen: 4.853 ng
RT: 19.639 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:202 Resp: 7870

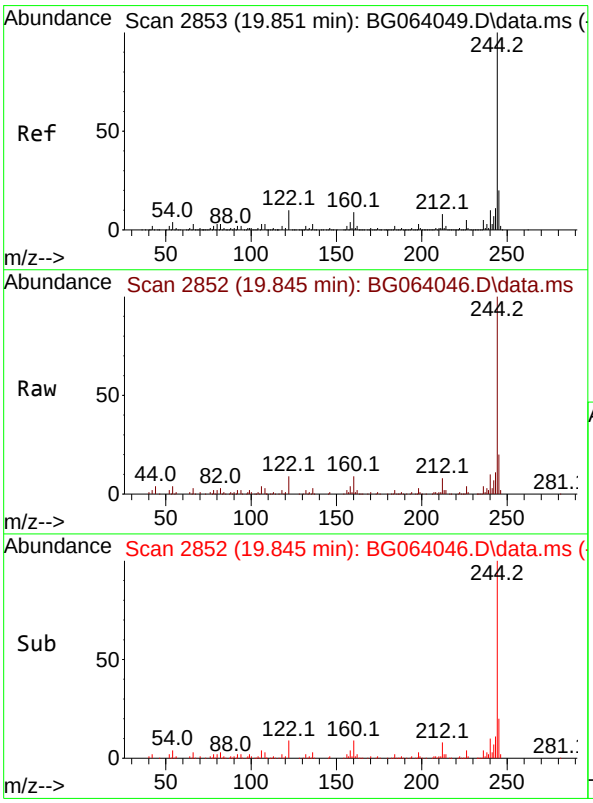
Ion	Ratio	Lower	Upper
202	100		
200	20.3	17.3	25.9
203	16.7	13.6	20.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

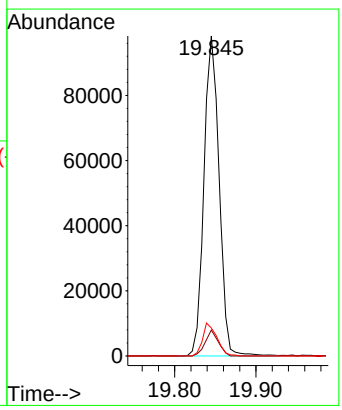
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

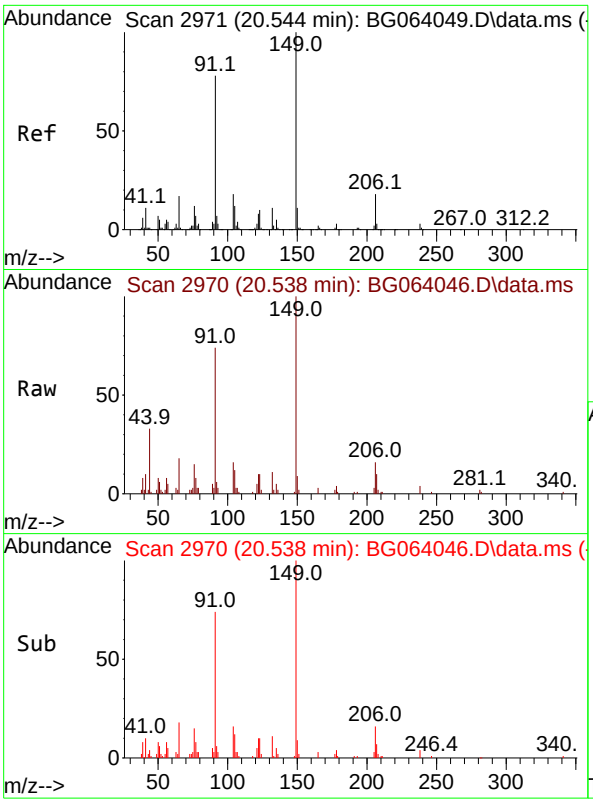


#79
Terphenyl-d14
Concen: 10.226 ng
RT: 19.845 min Scan# 2852
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:244 Resp: 127223

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	8.8	8.0	12.0

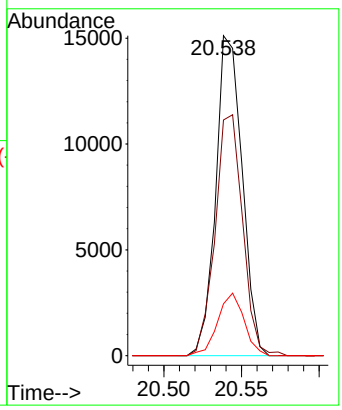




#80
Butylbenzylphthalate
Concen: 6.356 ng
RT: 20.538 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:149 Resp: 1789

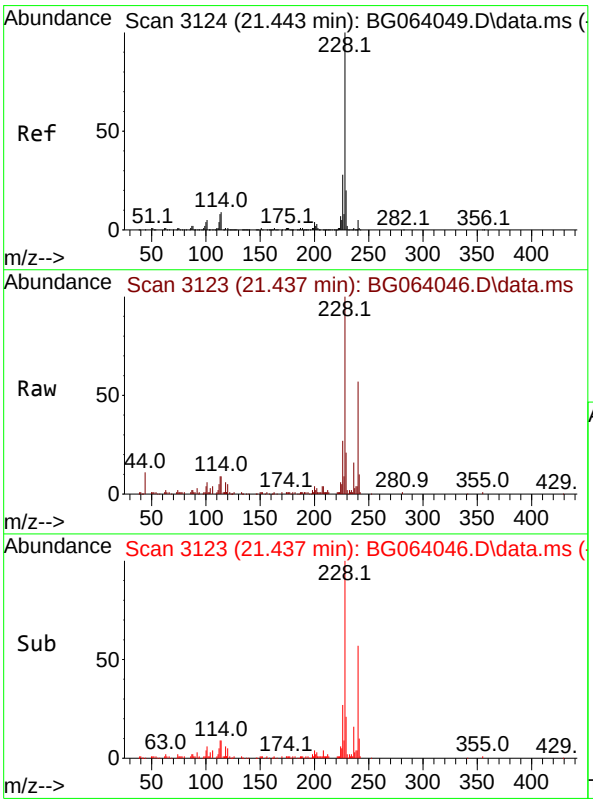
Ion	Ratio	Lower	Upper
149	100		
91	73.7	62.0	93.0
206	16.2	14.6	21.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

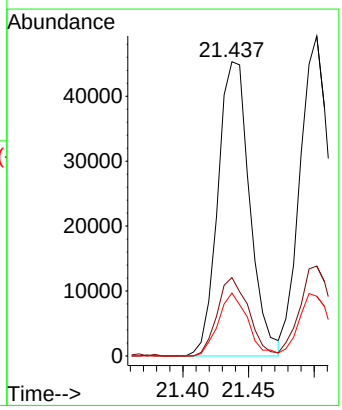
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

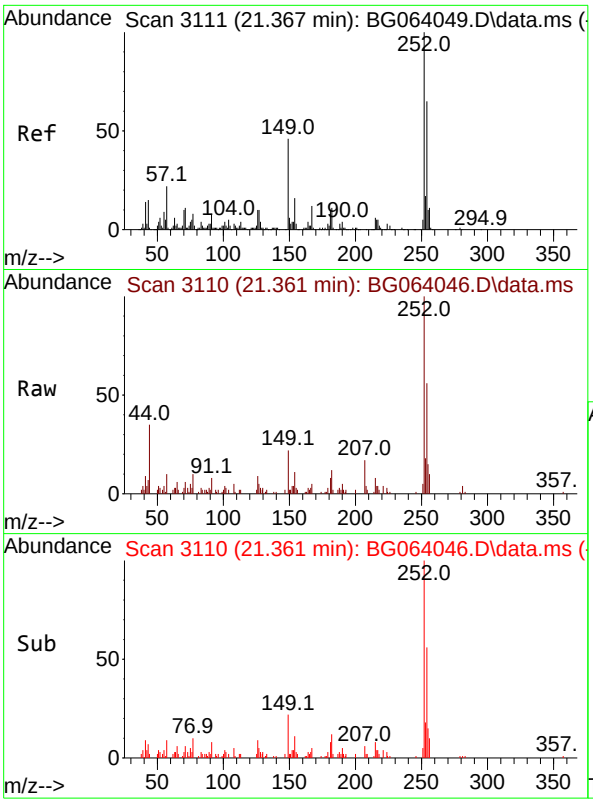


#81
Benzo(a)anthracene
Concen: 4.751 ng
RT: 21.437 min Scan# 3123
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:228 Resp: 76566

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.2	33.2
229	21.4	16.4	24.6

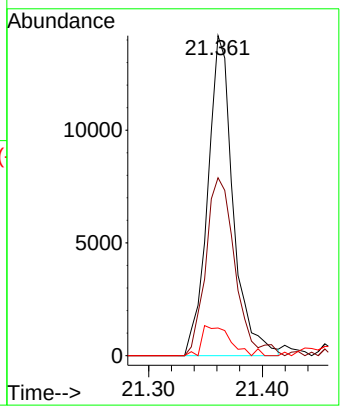




#82
3,3'-Dichlorobenzidine
Concen: 4.226 ng
RT: 21.361 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:252 Resp: 2203

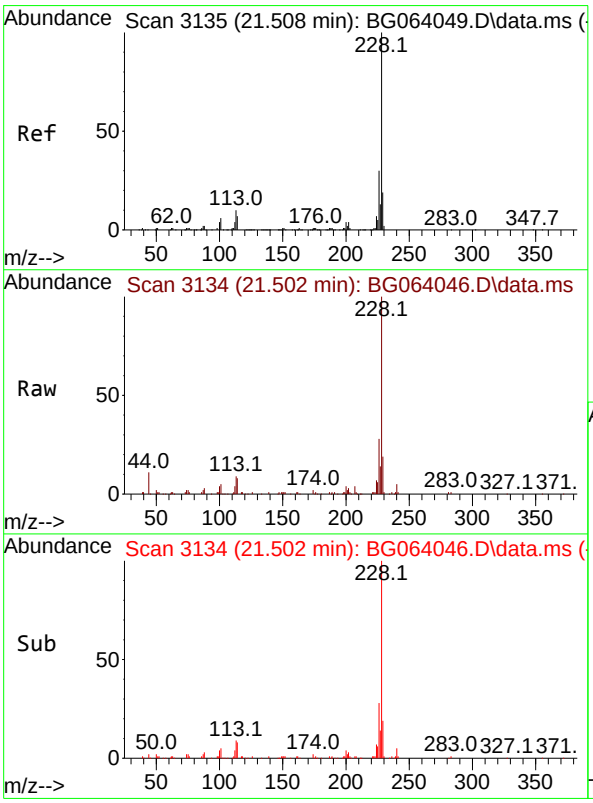
Ion	Ratio	Lower	Upper
252	100		
254	55.6	52.1	78.1
126	8.6	7.8	11.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

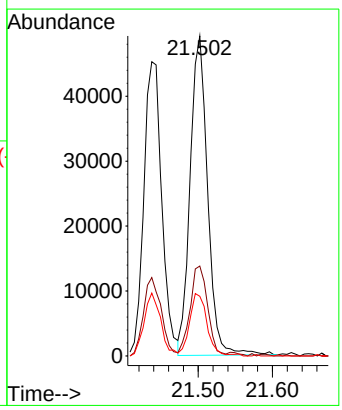
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

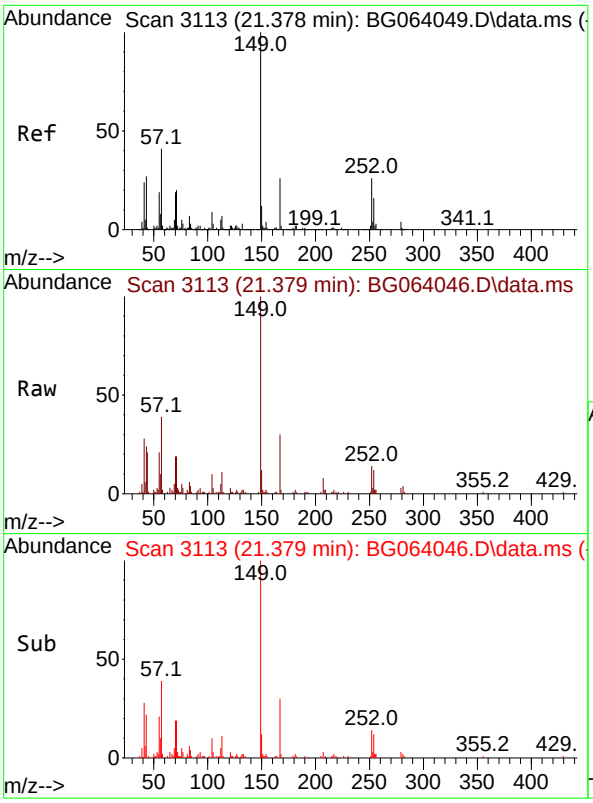


#83
Chrysene
Concen: 5.014 ng
RT: 21.502 min Scan# 3134
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:228 Resp: 80580

Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.9	35.9
229	18.7	15.3	22.9

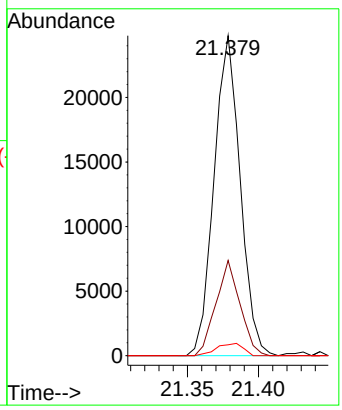




#84
Bis(2-ethylhexyl)phthalate
Concen: 3.634 ng
RT: 21.379 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:149 Resp: 3167

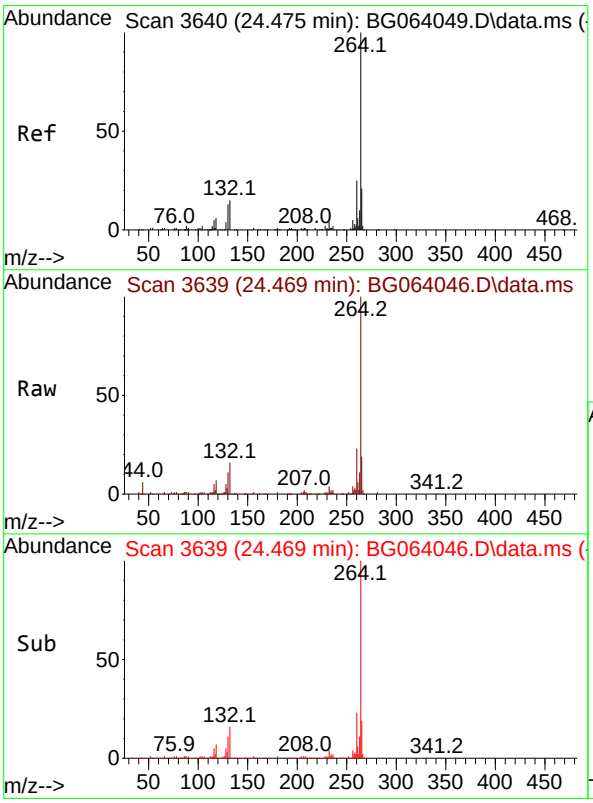
Ion	Ratio	Lower	Upper
149	100		
167	29.7	21.0	31.6
279	3.4	2.8	4.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

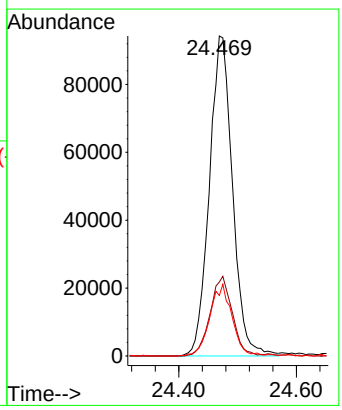
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

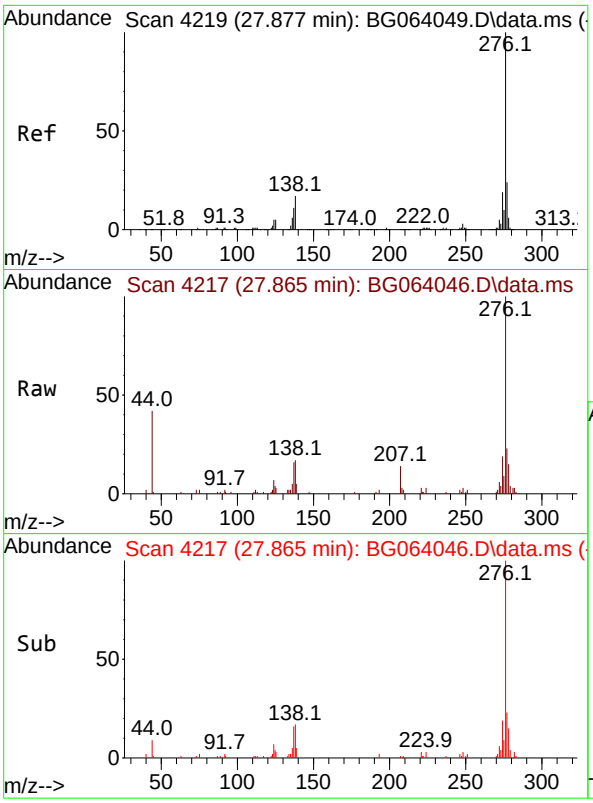


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.469 min Scan# 3639
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:264 Resp: 257404

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.6	29.4
265	18.9	16.6	25.0

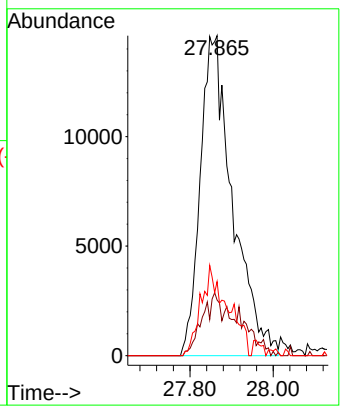




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.569 ng
RT: 27.865 min Scan# 4
Delta R.T. -0.011 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:276 Resp: 7868

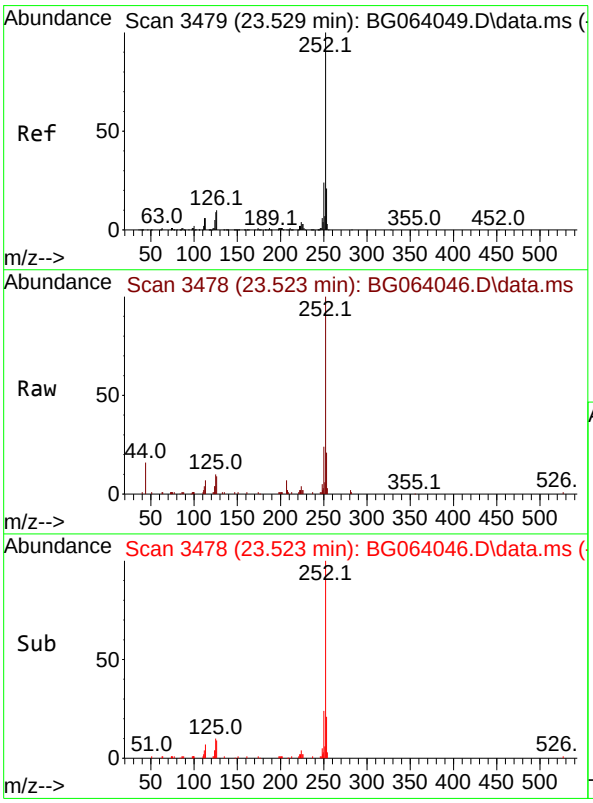
Ion	Ratio	Lower	Upper
276	100		
138	11.1	12.1	18.1#
277	23.4	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

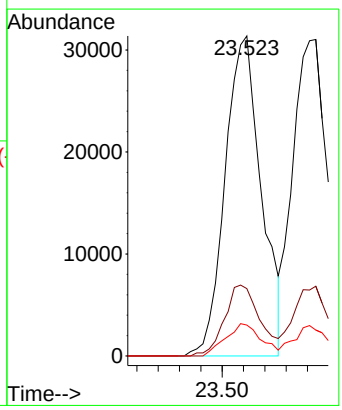
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

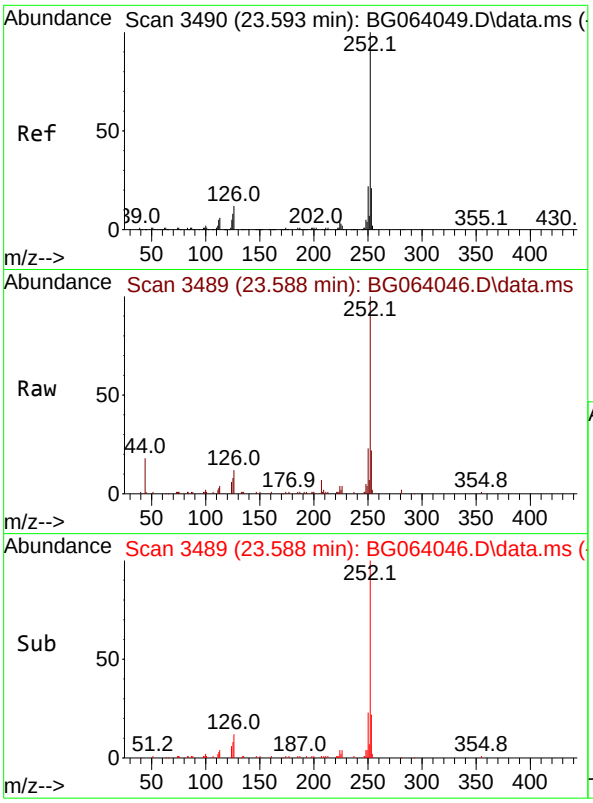


#88
Benzo(b)fluoranthene
Concen: 4.757 ng
RT: 23.523 min Scan# 3478
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:252 Resp: 74031

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.0	25.4
125	9.7	7.4	11.2

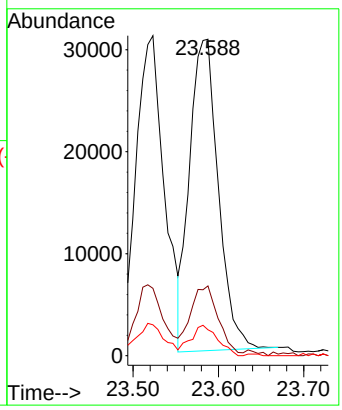




#89
Benzo(k)fluoranthene
Concen: 4.582 ng
RT: 23.588 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:252 Resp: 7152

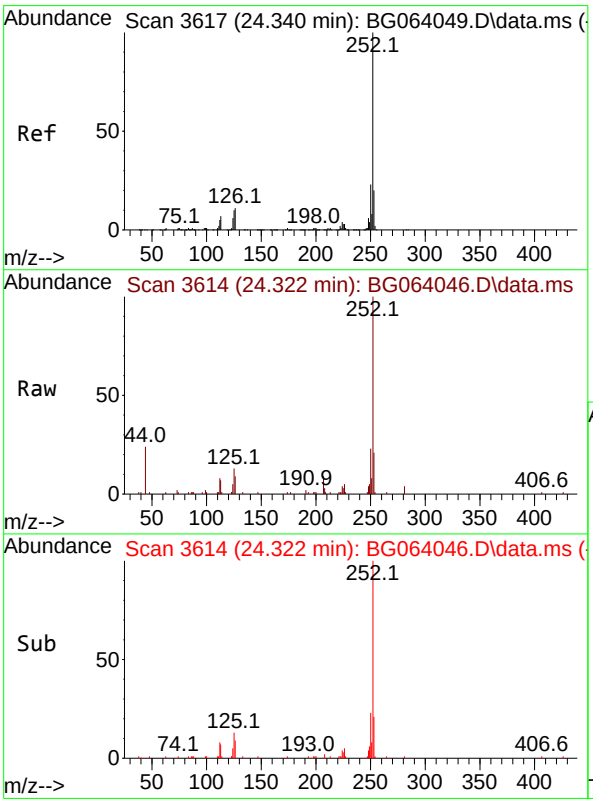
Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.8	25.2
125	8.2	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

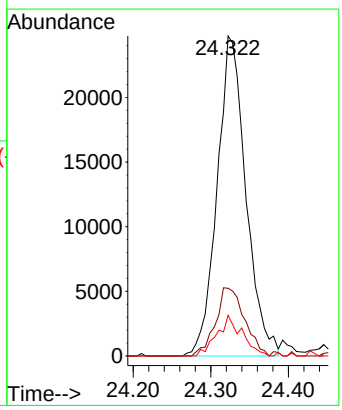
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

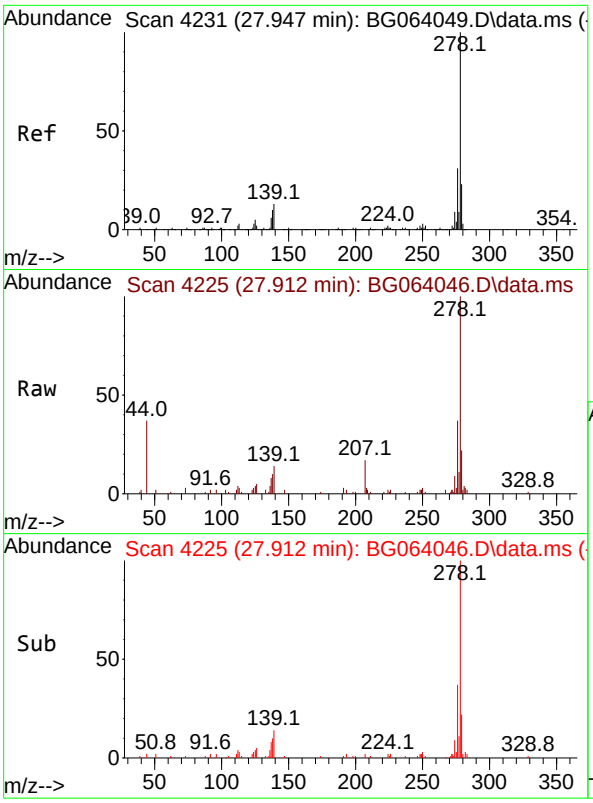


#90
Benzo(a)pyrene
Concen: 4.610 ng
RT: 24.322 min Scan# 3614
Delta R.T. -0.017 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:252 Resp: 63881

Ion	Ratio	Lower	Upper
252	100		
253	21.2	16.2	24.2
125	12.7	7.8	11.6#

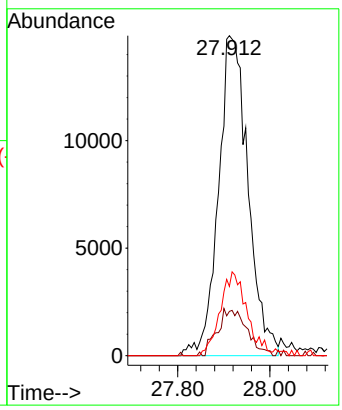




#91
Dibenzo(a,h)anthracene
Concen: 4.638 ng
RT: 27.912 min Scan# 4
Delta R.T. -0.035 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:278 Resp: 6622

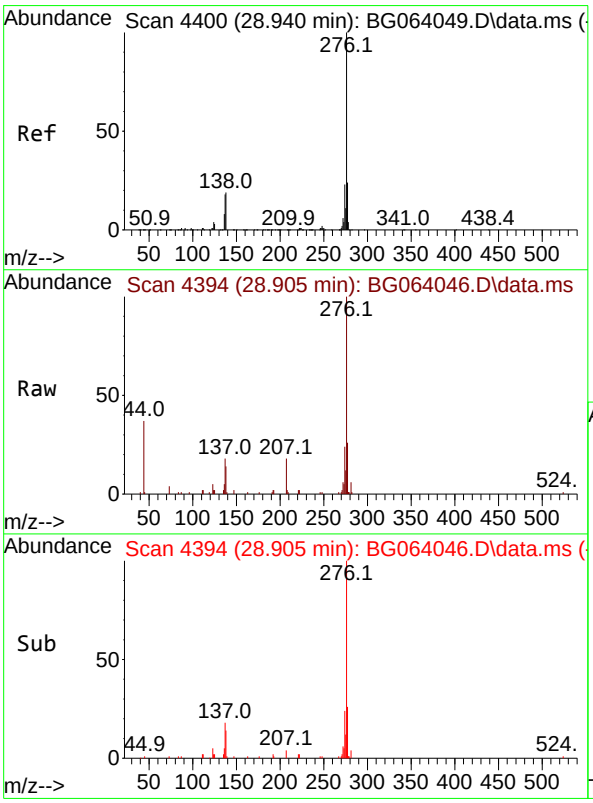
Ion	Ratio	Lower	Upper
278	100		
139	13.9	10.2	15.2
279	21.7	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

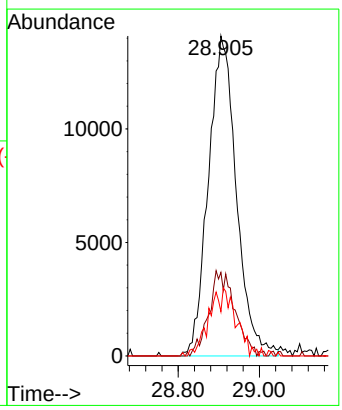
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 4.607 ng
RT: 28.905 min Scan# 4394
Delta R.T. -0.035 min
Lab File: BG064046.D
Acq: 5 Mar 2025 9:42

Tgt Ion:276 Resp: 67535

Ion	Ratio	Lower	Upper
276	100		
277	26.1	19.5	29.3
138	13.8	15.4	23.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064047.D
Acq On : 5 Mar 2025 10:22
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 15:21:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.867	152	31108	20.000	ng		0.00
21) Naphthalene-d8	10.652	136	139041	20.000	ng		0.00
39) Acenaphthene-d10	14.489	164	93753	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	216134	20.000	ng		0.00
76) Chrysene-d12	21.457	240	243131	20.000	ng		0.00
86) Perylene-d12	24.471	264	255316	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.446	112	38583	19.366	ng		0.00
7) Phenol-d6	7.027	99	50726	18.716	ng		0.00
23) Nitrobenzene-d5	9.013	82	41723	16.583	ng		0.00
42) 2,4,6-Tribromophenol	15.969	330	17898	17.174	ng		0.00
45) 2-Fluorobiphenyl	13.114	172	122799	19.881	ng		0.00
79) Terphenyl-d14	19.847	244	248866	20.697	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.378	88	9415	10.428	ng		97
3) Pyridine	3.760	79	22471	10.233	ng		93
4) n-Nitrosodimethylamine	3.678	42	15180	9.676	ng	#	99
6) Aniline	7.191	93	25976	9.767	ng		98
8) 2-Chlorophenol	7.432	128	20803	9.722	ng		95
9) Benzaldehyde	7.003	77	17458m	11.020	ng		
10) Phenol	7.050	94	26326	9.487	ng		98
11) bis(2-Chloroethyl)ether	7.285	93	22457	10.323	ng		96
12) 1,3-Dichlorobenzene	7.755	146	23941	10.189	ng		90
13) 1,4-Dichlorobenzene	7.896	146	24047	9.985	ng		93
14) 1,2-Dichlorobenzene	8.214	146	22764	9.802	ng		91
15) Benzyl Alcohol	8.096	79	19422	9.274	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.390	45	47034	9.615	ng		97
17) 2-Methylphenol	8.296	107	17355	9.424	ng		94
18) Hexachloroethane	8.948	117	8075	9.583	ng		90
19) n-Nitroso-di-n-propyla...	8.660	70	17996	9.461	ng	#	95
20) 3+4-Methylphenols	8.625	107	23611	9.313	ng		93
22) Acetophenone	8.678	105	36468	9.566	ng	#	91
24) Nitrobenzene	9.054	77	22242	8.554	ng	#	96
25) Isophorone	9.577	82	46752	9.284	ng		97
26) 2-Nitrophenol	9.765	139	5521	9.891	ng	#	79
27) 2,4-Dimethylphenol	9.823	122	13030	8.631	ng		90
28) bis(2-Chloroethoxy)met...	10.064	93	28970	9.488	ng		98
29) 2,4-Dichlorophenol	10.293	162	16635	8.726	ng		96
30) 1,2,4-Trichlorobenzene	10.517	180	22045	9.579	ng		96
31) Naphthalene	10.699	128	72491	9.669	ng		98
32) Benzoic acid	9.912	122	5442m	11.884	ng		
33) 4-Chloroaniline	10.805	127	25282	9.226	ng	#	92
34) Hexachlorobutadiene	10.993	225	14828	9.830	ng		99
35) Caprolactam	11.539	113	6357	8.702	ng	#	91
36) 4-Chloro-3-methylphenol	11.921	107	22970	9.192	ng		97
37) 2-Methylnaphthalene	12.309	142	50557	9.552	ng		100
38) 1-Methylnaphthalene	12.526	142	50620	9.762	ng	#	92
40) 1,2,4,5-Tetrachloroben...	12.679	216	27386	10.232	ng		98
41) Hexachlorocyclopentadiene	12.667	237	6015	7.985	ng		90
43) 2,4,6-Trichlorophenol	12.914	196	13713	8.693	ng		95

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064047.D
Acq On : 5 Mar 2025 10:22
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:21:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.979	196	15468	8.825	ng		95
46) 1,1'-Biphenyl	13.319	154	70250	9.918	ng		94
47) 2-Chloronaphthalene	13.360	162	50394	9.755	ng		98
48) 2-Nitroaniline	13.560	65	10834	9.850	ng		90
49) Acenaphthylene	14.207	152	78614	9.621	ng		96
50) Dimethylphthalate	13.942	163	65659	9.487	ng	#	95
51) 2,6-Dinitrotoluene	14.054	165	9373	9.566	ng		90
52) Acenaphthene	14.547	154	53833m	9.797	ng		
53) 3-Nitroaniline	14.383	138	10697	7.997	ng		98
54) 2,4-Dinitrophenol	14.583	184	3090	12.640	ng	#	74
55) Dibenzofuran	14.882	168	88163	9.924	ng		97
56) 4-Nitrophenol	14.682	139	7683	6.849	ng	#	88
57) 2,4-Dinitrotoluene	14.835	165	11947	9.344	ng	#	95
58) Fluorene	15.528	166	67954	9.821	ng		96
59) 2,3,4,6-Tetrachlorophenol	15.111	232	15282	8.943	ng		99
60) Diethylphthalate	15.311	149	70346	9.363	ng		96
61) 4-Chlorophenyl-phenyle...	15.534	204	34862	10.139	ng		95
62) 4-Nitroaniline	15.540	138	12324	8.534	ng		89
63) Azobenzene	15.822	77	77127	9.620	ng		98
65) 4,6-Dinitro-2-methylph...	15.605	198	5373	12.953	ng		97
66) n-Nitrosodiphenylamine	15.740	169	59511	9.727	ng		99
67) 4-Bromophenyl-phenylether	16.422	248	21085	9.525	ng		97
68) Hexachlorobenzene	16.539	284	24406	9.848	ng	#	89
69) Atrazine	16.686	200	20585	11.436	ng		92
70) Pentachlorophenol	16.874	266	11318	7.355	ng	#	87
71) Phenanthrene	17.268	178	111754	9.694	ng		97
72) Anthracene	17.356	178	112451	9.810	ng		99
73) Carbazole	17.626	167	106750	9.974	ng		98
74) Di-n-butylphthalate	18.202	149	118366	9.396	ng		97
75) Fluoranthene	19.277	202	142097	10.224	ng		98
77) Benzidine	19.465	184	48648m	14.253	ng		
78) Pyrene	19.641	202	156414	9.980	ng		99
80) Butylbenzylphthalate	20.546	149	40179	9.952	ng	#	88
81) Benzo(a)anthracene	21.439	228	154113	9.895	ng		97
82) 3,3'-Dichlorobenzidine	21.363	252	48080	9.539	ng	#	93
83) Chrysene	21.504	228	149887	9.649	ng		98
84) Bis(2-ethylhexyl)phtha...	21.380	149	70780	8.403	ng		95
85) Di-n-octyl phthalate	22.526	149	108389	7.461	ng		97
87) Indeno(1,2,3-cd)pyrene	27.855	276	157212	9.203	ng	#	75
88) Benzo(b)fluoranthene	23.519	252	146238	9.475	ng		98
89) Benzo(k)fluoranthene	23.584	252	151826	9.805	ng		97
90) Benzo(a)pyrene	24.330	252	130528	9.496	ng		96
91) Dibenzo(a,h)anthracene	27.914	278	132272	9.340	ng	#	97
92) Benzo(g,h,i)perylene	28.907	276	139536	9.596	ng		97

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

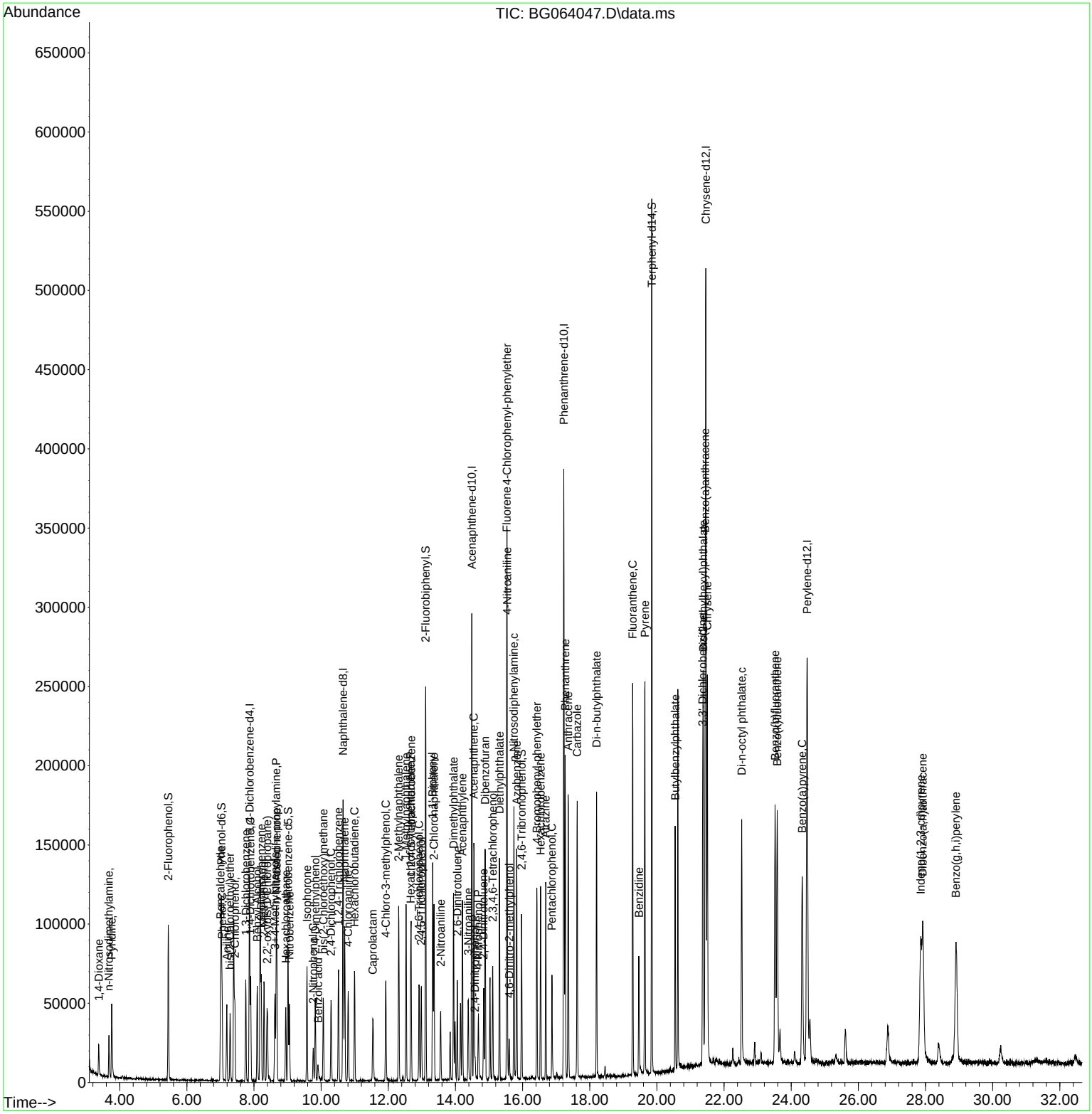
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064047.D
Acq On : 5 Mar 2025 10:22
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

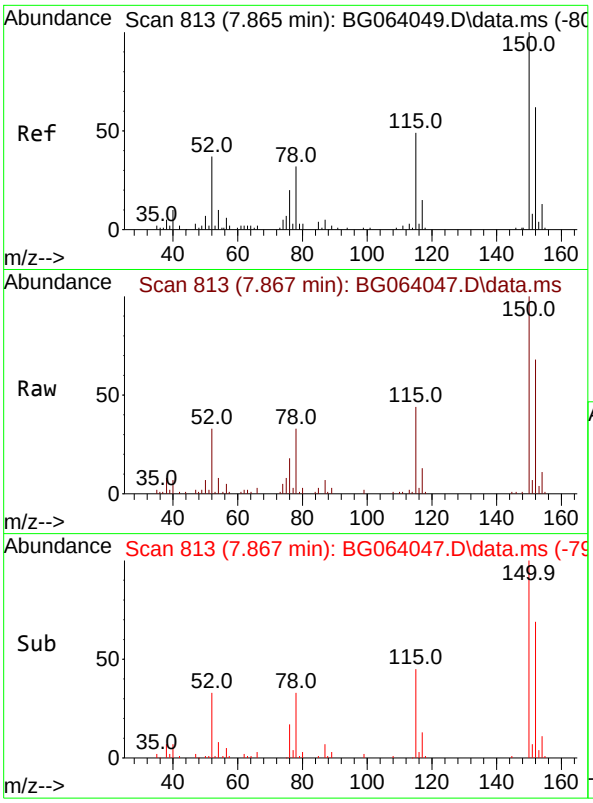
Quant Time: Mar 05 15:21:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

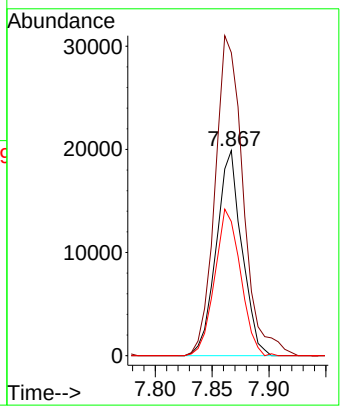




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.867 min Scan# 8
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:152 Resp: 3110

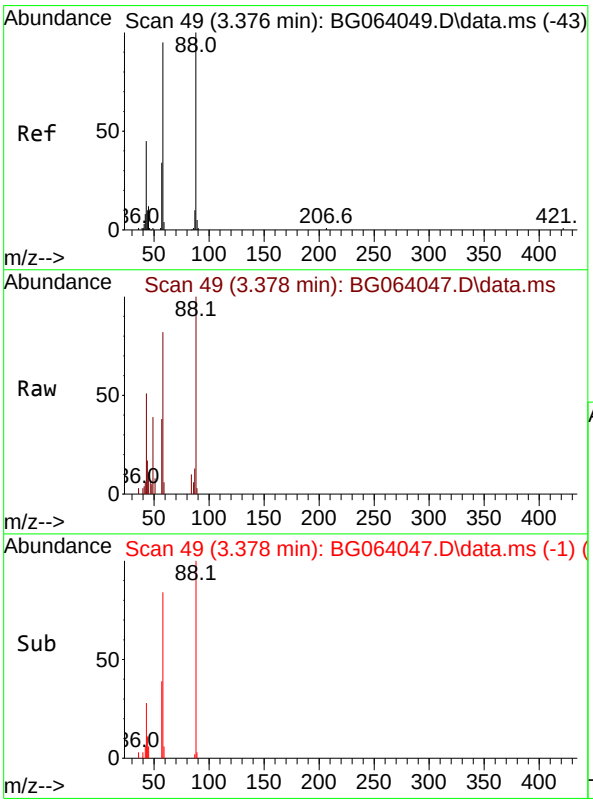
Ion	Ratio	Lower	Upper
152	100		
150	147.8	129.2	193.8
115	65.4	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

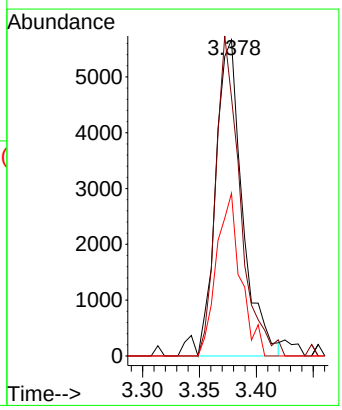
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

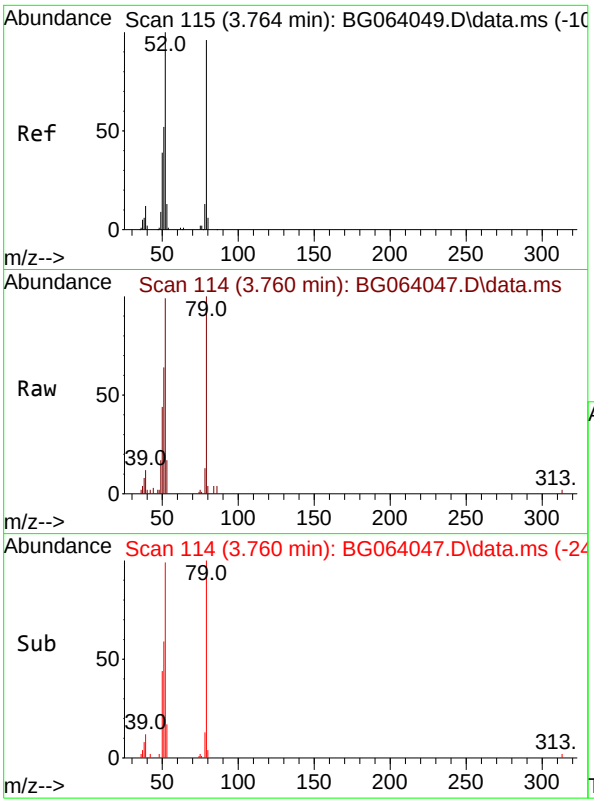


#2
1,4-Dioxane
Concen: 10.428 ng
RT: 3.378 min Scan# 49
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 88 Resp: 9415

Ion	Ratio	Lower	Upper
88	100		
58	89.7	74.6	111.8
43	45.8	35.5	53.3





#3
Pyridine
Concen: 10.233 ng
RT: 3.760 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

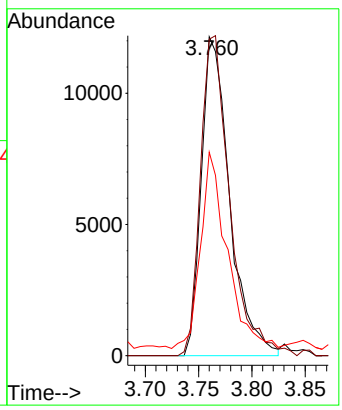
Tgt Ion: 79 Resp: 2247

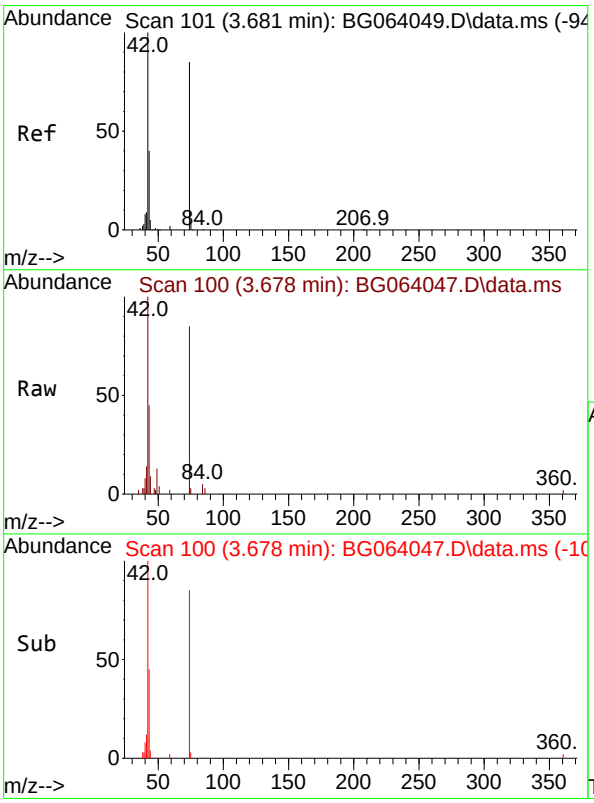
Ion	Ratio	Lower	Upper
79	100		
52	99.2	83.0	124.6
51	63.8	44.3	66.5

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

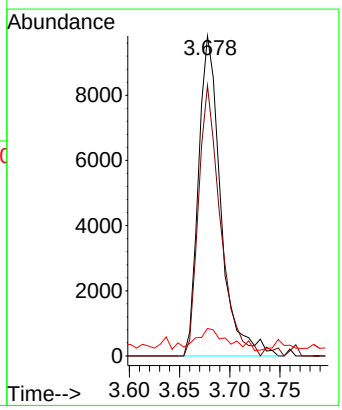


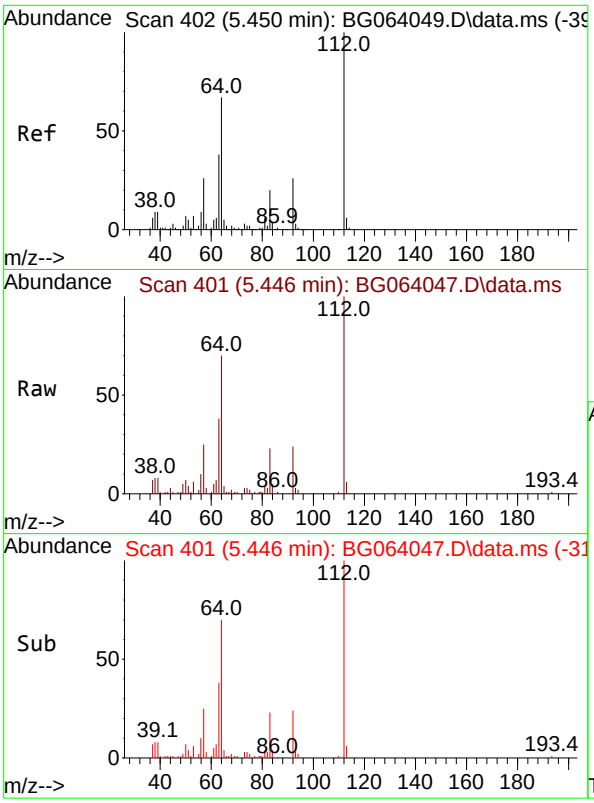


#4
n-Nitrosodimethylamine
Concen: 9.676 ng
RT: 3.678 min Scan# 100
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 42 Resp: 15180

Ion	Ratio	Lower	Upper
42	100		
74	84.6	68.0	102.0
44	8.6	4.9	7.3#

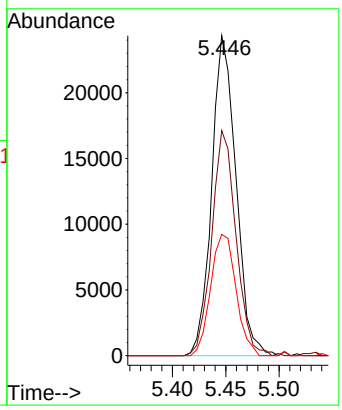




#5
2-Fluorophenol
Concen: 19.366 ng
RT: 5.446 min Scan# 4(
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:112 Resp: 3858

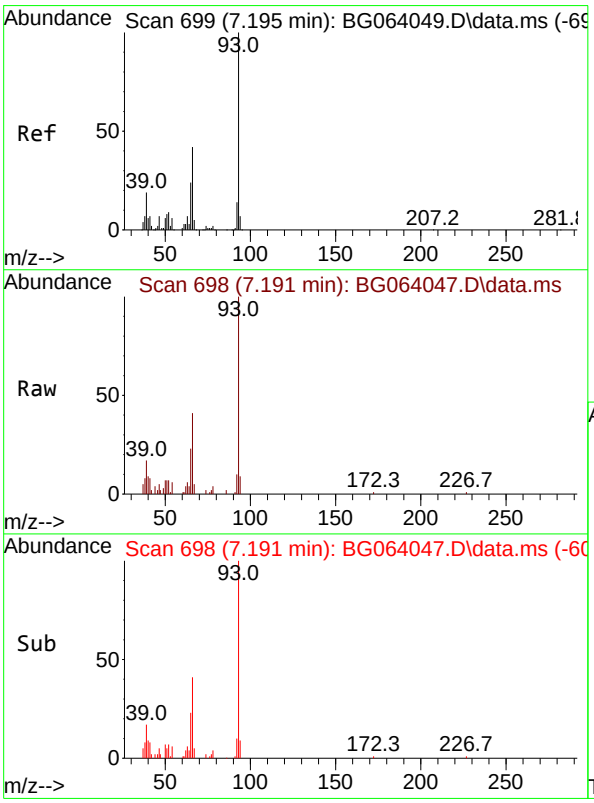
Ion	Ratio	Lower	Upper
112	100		
64	70.4	53.7	80.5
63	37.9	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

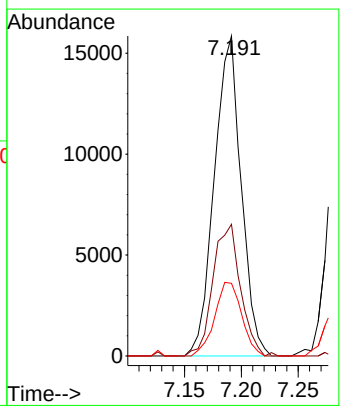
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

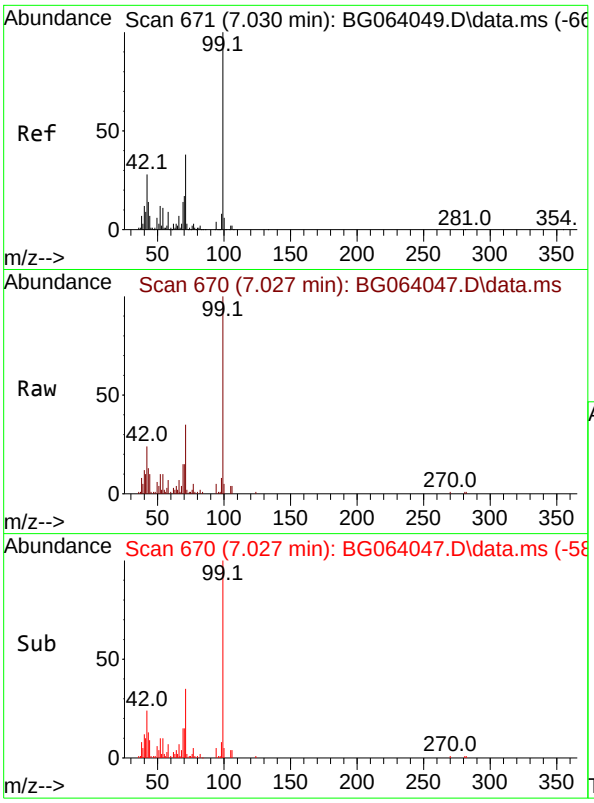


#6
Aniline
Concen: 9.767 ng
RT: 7.191 min Scan# 698
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 93 Resp: 25976

Ion	Ratio	Lower	Upper
93	100		
66	41.2	33.7	50.5
65	22.7	19.1	28.7

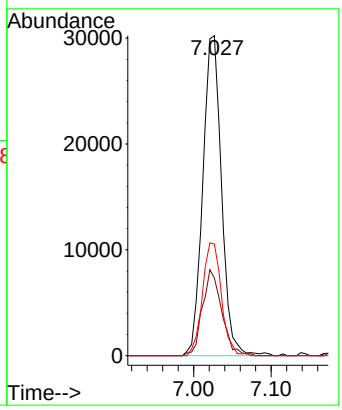




#7
Phenol-d6
Concen: 18.716 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 99 Resp: 5072

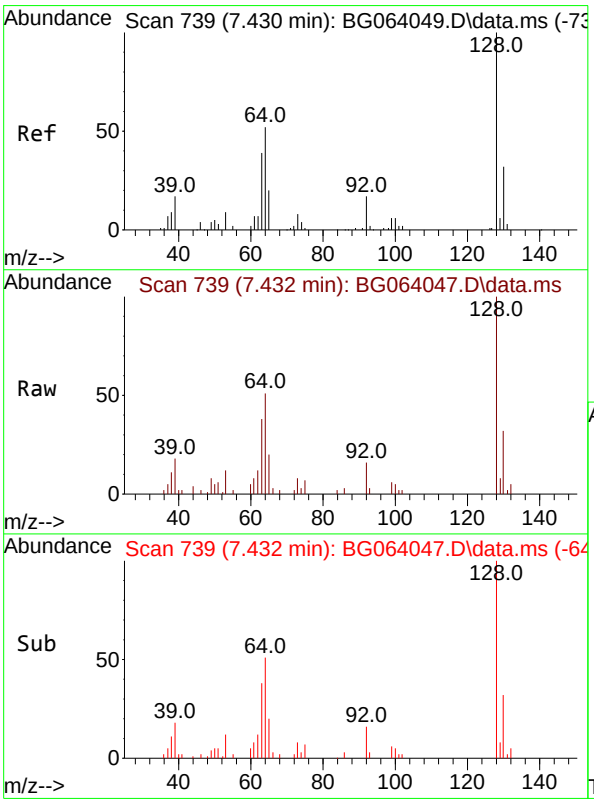
Ion	Ratio	Lower	Upper
99	100		
42	24.2	22.7	34.1
71	34.9	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

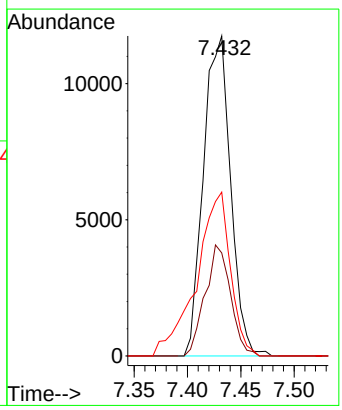
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

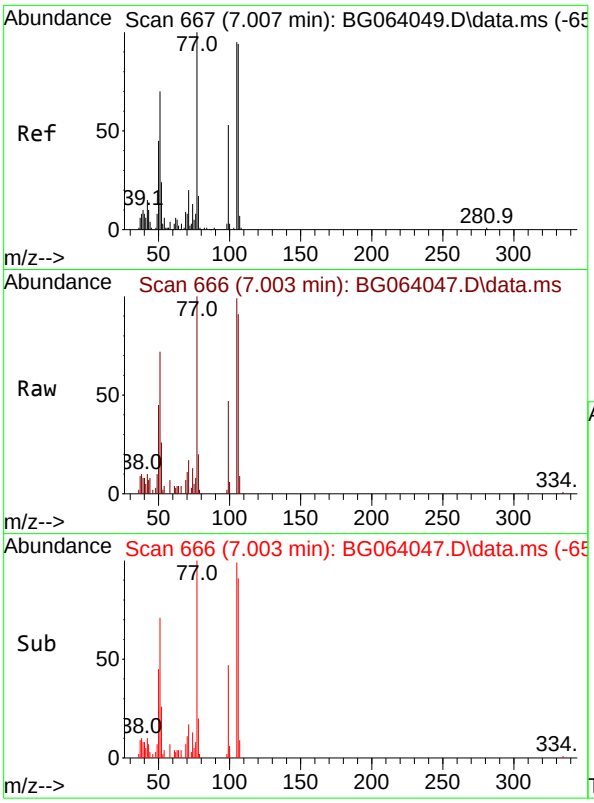


#8
2-Chlorophenol
Concen: 9.722 ng
RT: 7.432 min Scan# 739
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:128 Resp: 20803

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.3	52.3
64	51.2	37.0	77.0

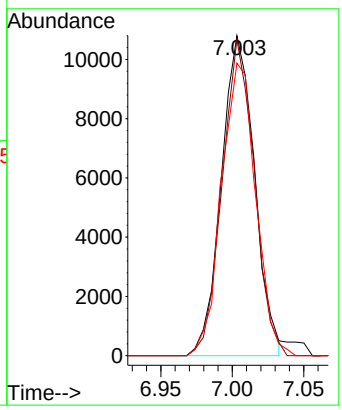




#9
Benzaldehyde
Concen: 11.020 ng m
RT: 7.003 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 77 Resp: 1745

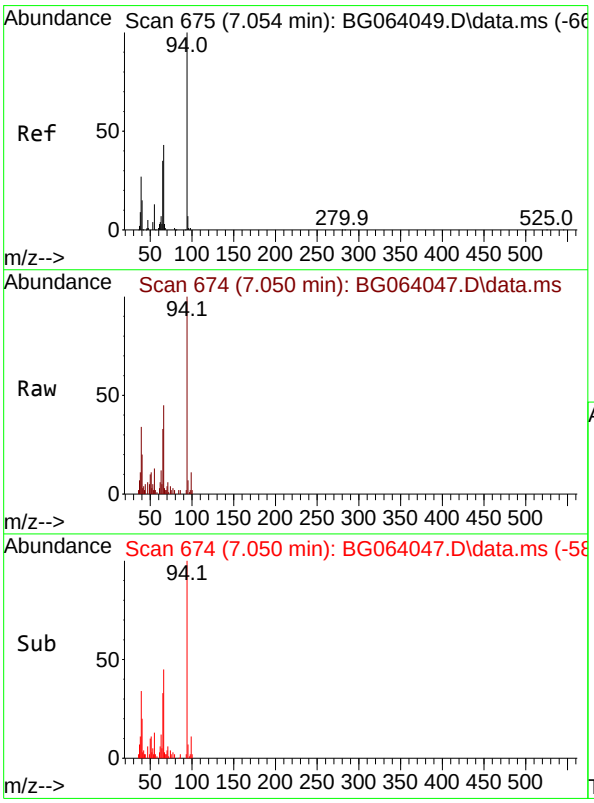
Ion	Ratio	Lower	Upper
77	100		
105	98.8	75.5	115.5
106	91.4	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

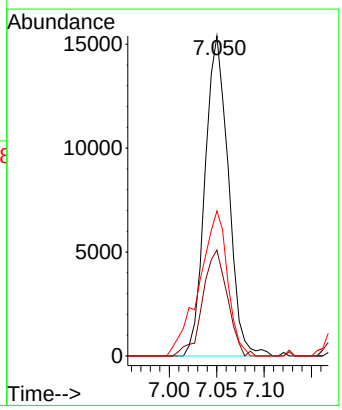
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

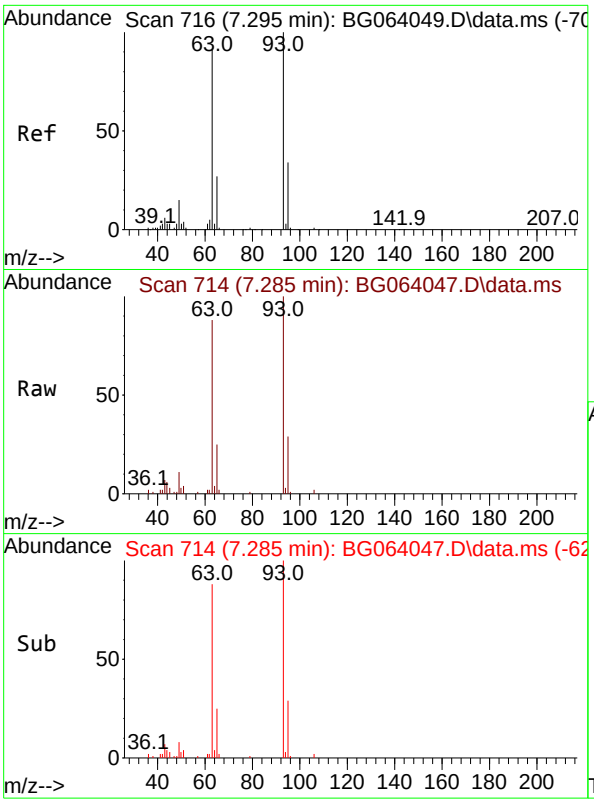


#10
Phenol
Concen: 9.487 ng
RT: 7.050 min Scan# 674
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 94 Resp: 26326

Ion	Ratio	Lower	Upper
94	100		
65	33.1	15.2	55.2
66	45.3	25.1	65.1

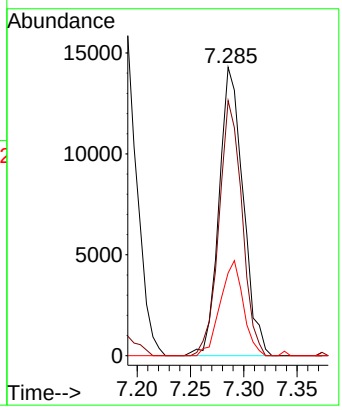




#11
bis(2-Chloroethyl)ether
Concen: 10.323 ng
RT: 7.285 min Scan# 7
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 93 Resp: 2245

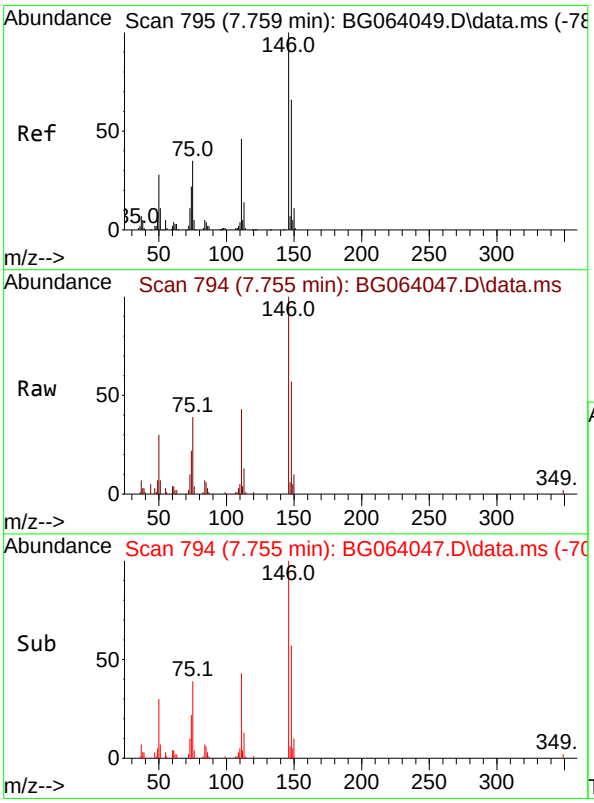
Ion	Ratio	Lower	Upper
93	100		
63	88.5	70.0	110.0
95	28.7	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

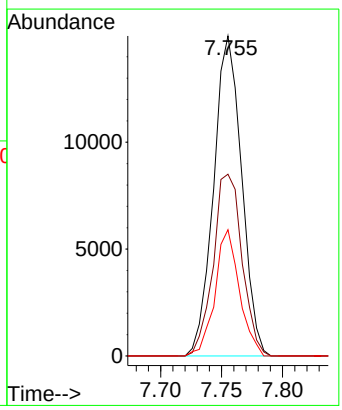
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

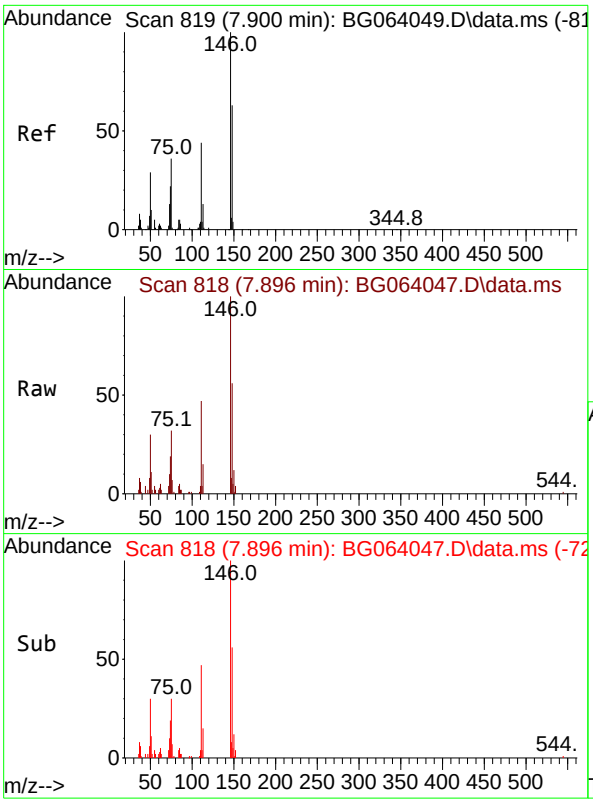


#12
1,3-Dichlorobenzene
Concen: 10.189 ng
RT: 7.755 min Scan# 794
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:146 Resp: 23941

Ion	Ratio	Lower	Upper
146	100		
148	56.8	52.6	78.8
75	39.5	28.1	42.1

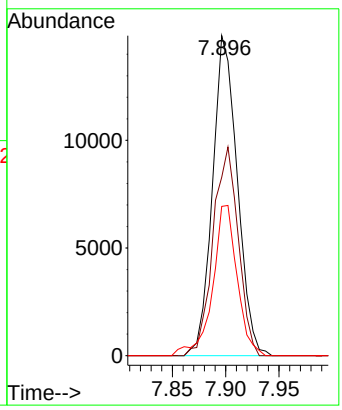




#13
1,4-Dichlorobenzene
Concen: 9.985 ng
RT: 7.896 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:146 Resp: 2404

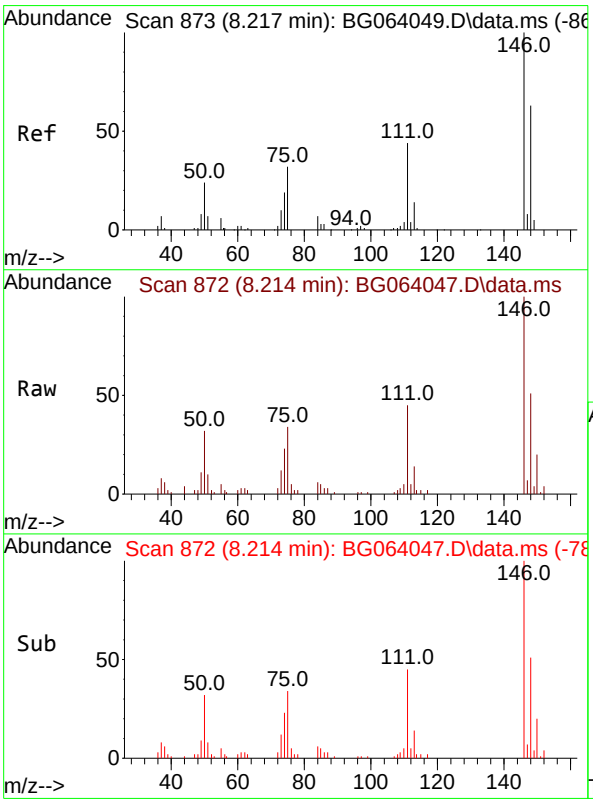
Ion	Ratio	Lower	Upper
146	100		
148	55.7	50.6	75.8
111	46.7	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

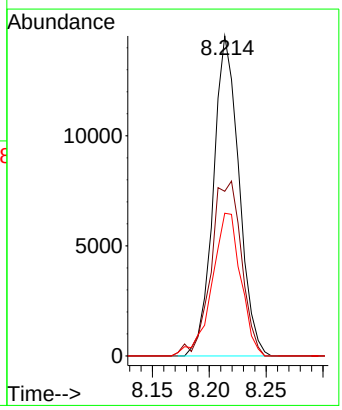
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

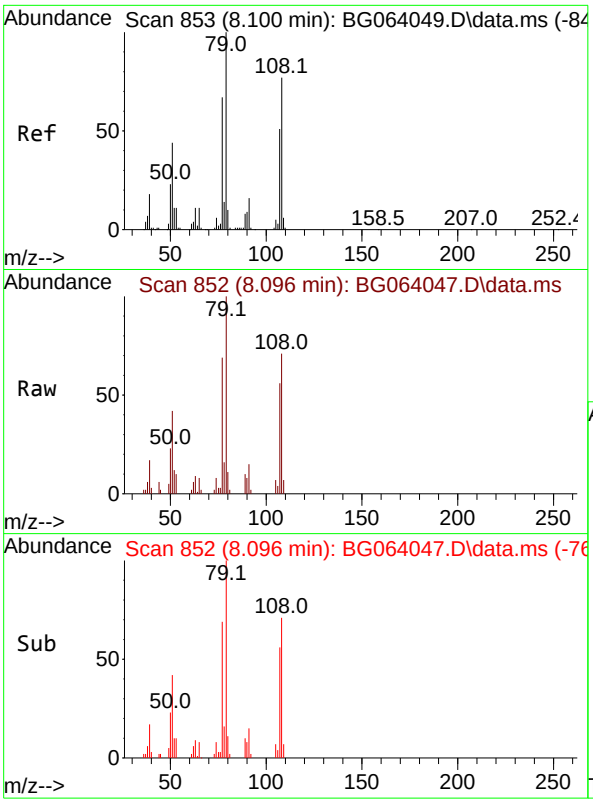


#14
1,2-Dichlorobenzene
Concen: 9.802 ng
RT: 8.214 min Scan# 872
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:146 Resp: 22764

Ion	Ratio	Lower	Upper
146	100		
148	51.4	50.2	75.2
111	44.6	36.4	54.6





#15
Benzyl Alcohol
Concen: 9.274 ng
RT: 8.096 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

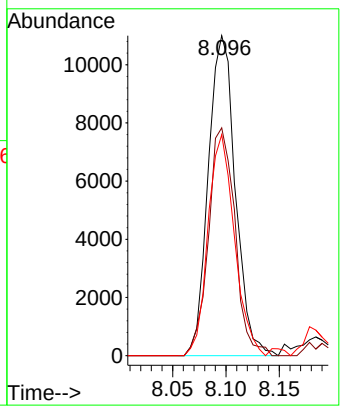
Tgt Ion: 79 Resp: 1942

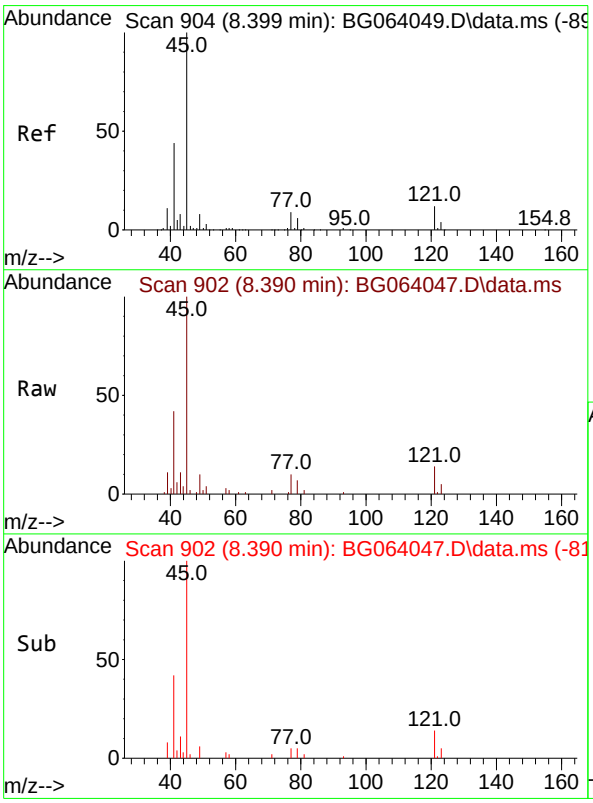
Ion	Ratio	Lower	Upper
79	100		
108	71.2	61.7	92.5
77	69.0	53.9	80.9

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

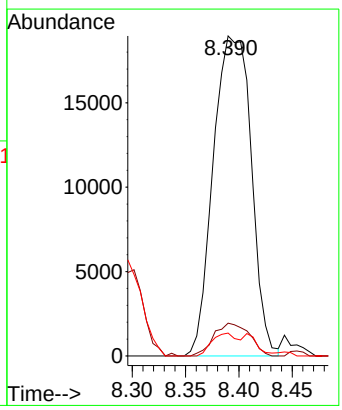


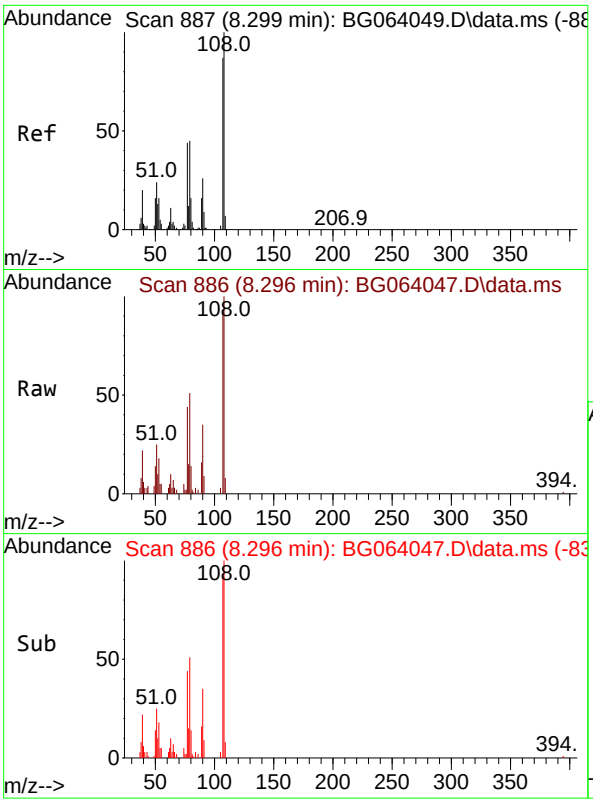


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.615 ng
RT: 8.390 min Scan# 902
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 45 Resp: 47034

Ion	Ratio	Lower	Upper
45	100		
77	10.3	0.0	29.0
79	7.1	0.0	26.6

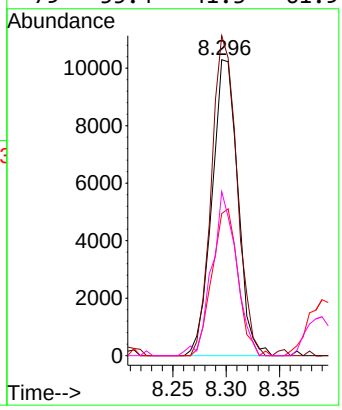




#17
2-Methylphenol
Concen: 9.424 ng
RT: 8.296 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:107 Resp: 1735

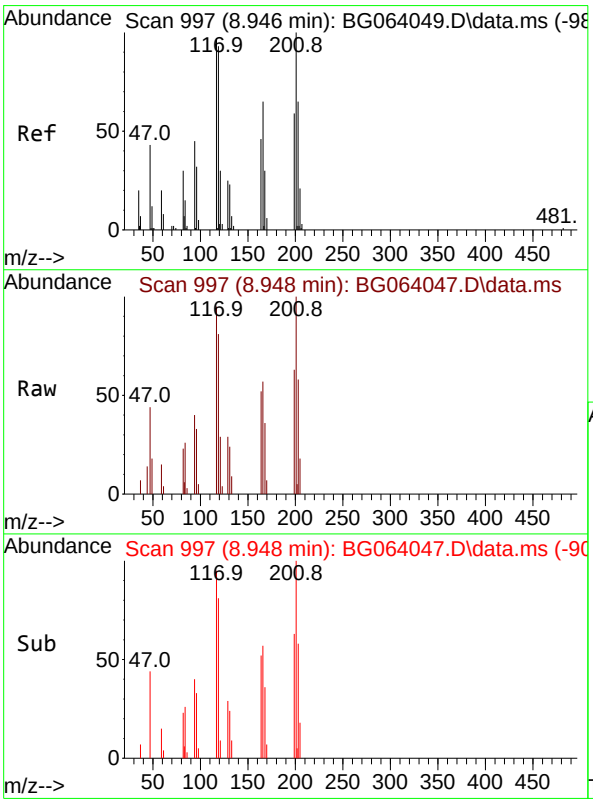
Ion	Ratio	Lower	Upper
107	100		
108	108.1	92.5	138.7
77	48.0	40.5	60.7
79	55.4	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

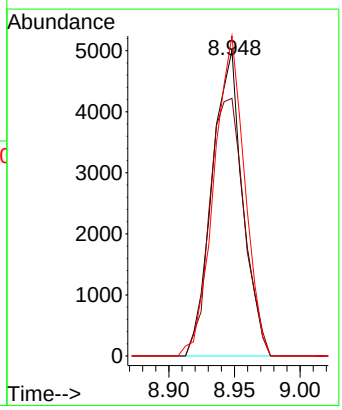
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

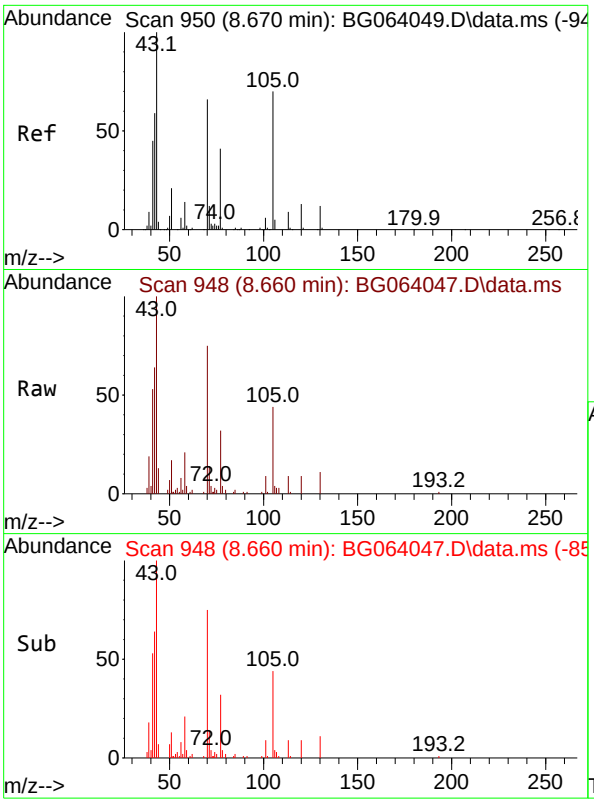


#18
Hexachloroethane
Concen: 9.583 ng
RT: 8.948 min Scan# 997
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:117 Resp: 8075

Ion	Ratio	Lower	Upper
117	100		
119	84.3	76.2	114.2
201	110.2	81.5	122.3

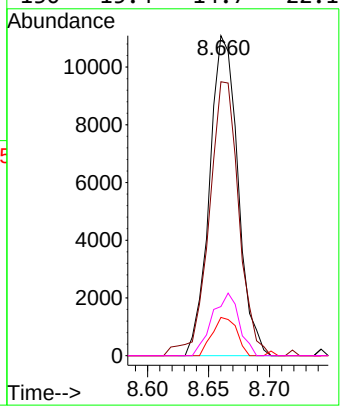




#19
n-Nitroso-di-n-propylamine
Concen: 9.461 ng
RT: 8.660 min Scan# 94
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 70 Resp: 1799

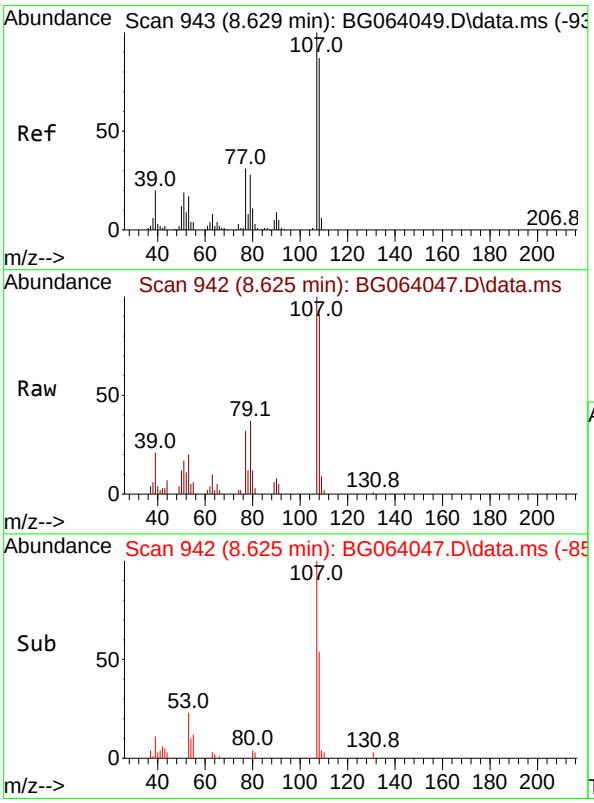
Ion	Ratio	Lower	Upper
70	100		
42	85.6	72.1	108.1
101	12.0	7.2	10.8
130	15.4	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

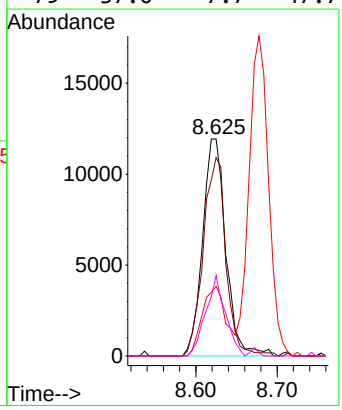
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

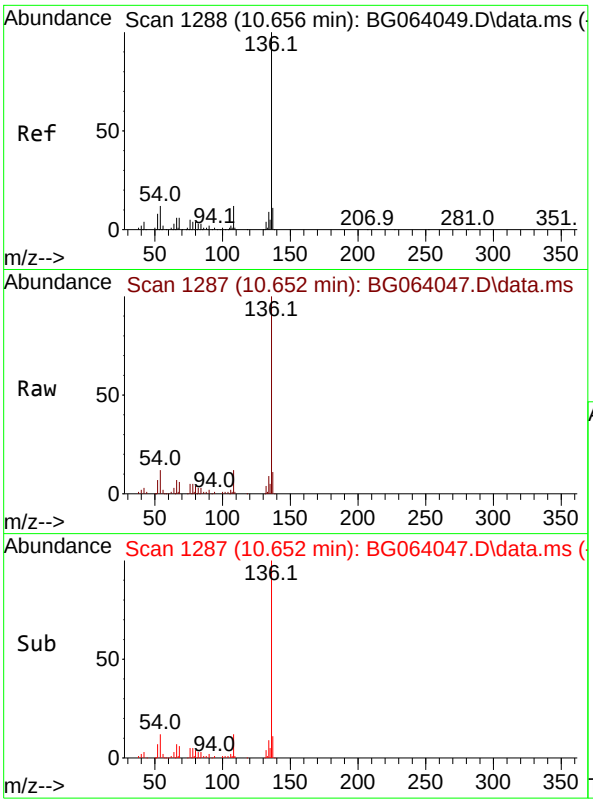


#20
3+4-Methylphenols
Concen: 9.313 ng
RT: 8.625 min Scan# 942
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:107 Resp: 23611

Ion	Ratio	Lower	Upper
107	100		
108	91.4	67.0	107.0
77	32.0	11.2	51.2
79	37.0	7.7	47.7

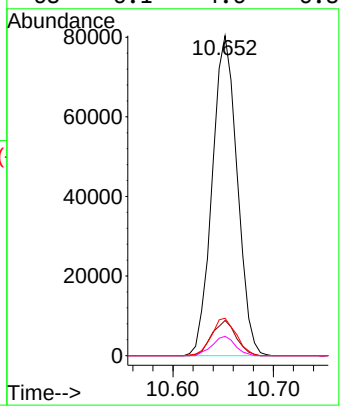




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:136 Resp: 13904

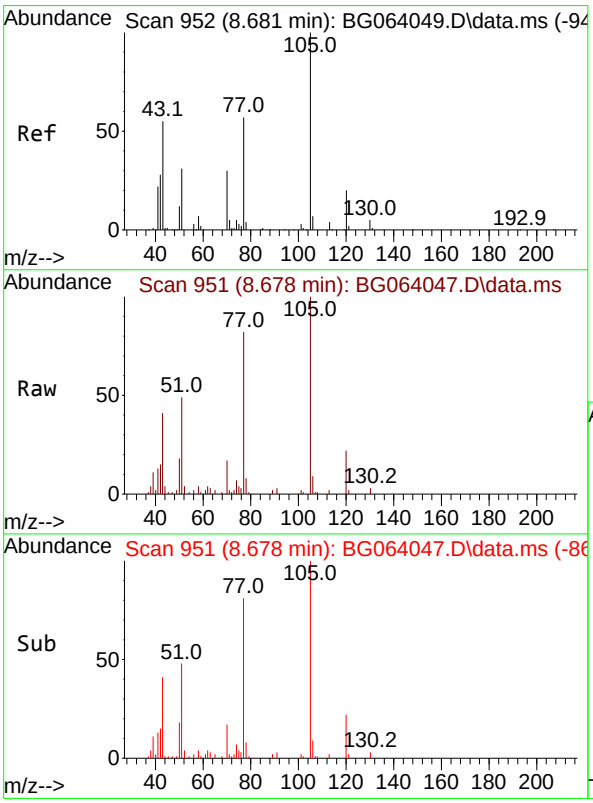
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	11.7	9.9	14.9
68	6.1	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

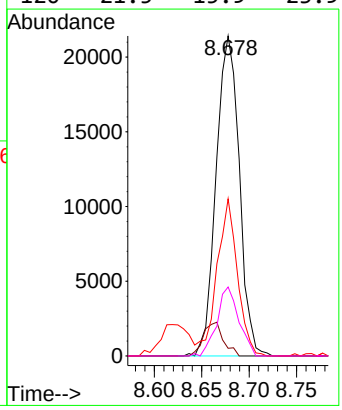
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

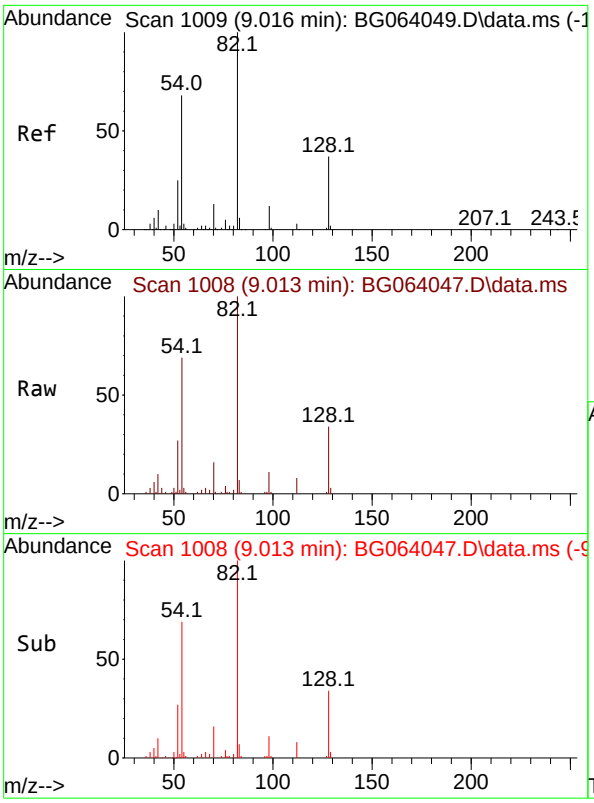


#22
Acetophenone
Concen: 9.566 ng
RT: 8.678 min Scan# 951
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:105 Resp: 36468

Ion	Ratio	Lower	Upper
105	100		
71	2.4	4.2	6.4#
51	49.1	33.3	49.9
120	21.5	15.9	23.9

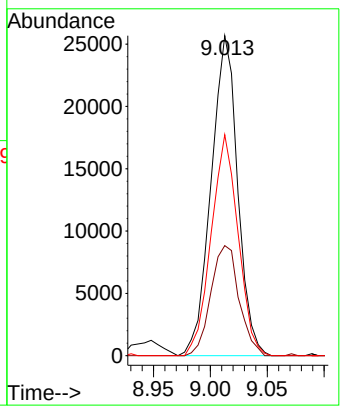




#23
Nitrobenzene-d5
Concen: 16.583 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 82 Resp: 4172

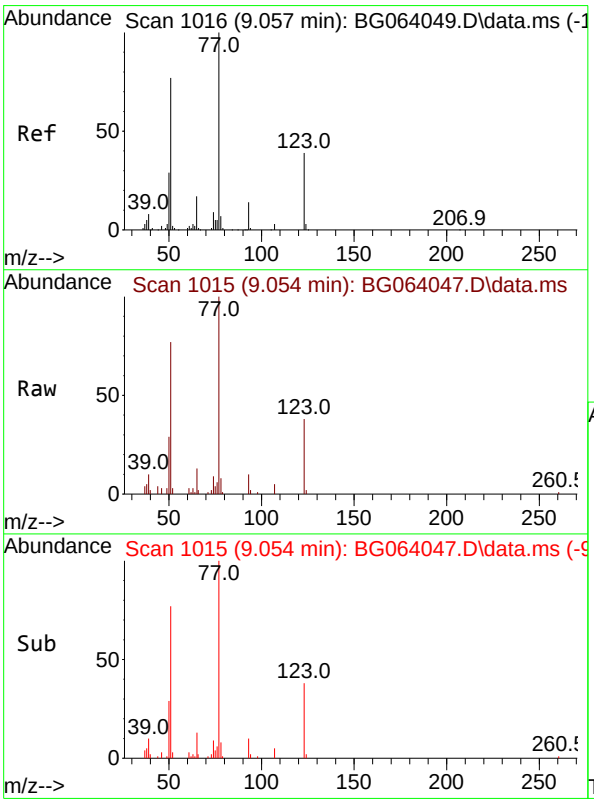
Ion	Ratio	Lower	Upper
82	100		
128	34.4	30.0	45.0
54	69.0	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

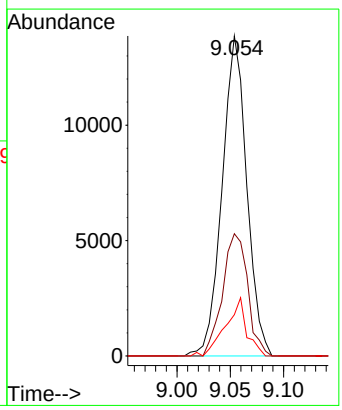
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

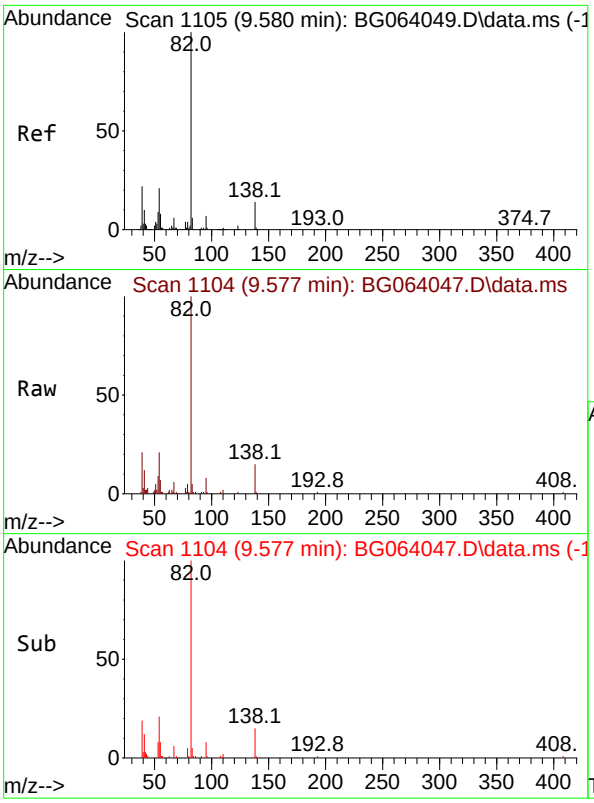


#24
Nitrobenzene
Concen: 8.554 ng
RT: 9.054 min Scan# 1015
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 77 Resp: 22242

Ion	Ratio	Lower	Upper
77	100		
123	38.2	31.4	47.2
65	12.9	13.4	20.0#

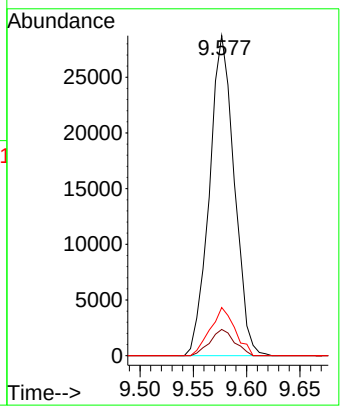




#25
Isophorone
Concen: 9.284 ng
RT: 9.577 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 82 Resp: 4675

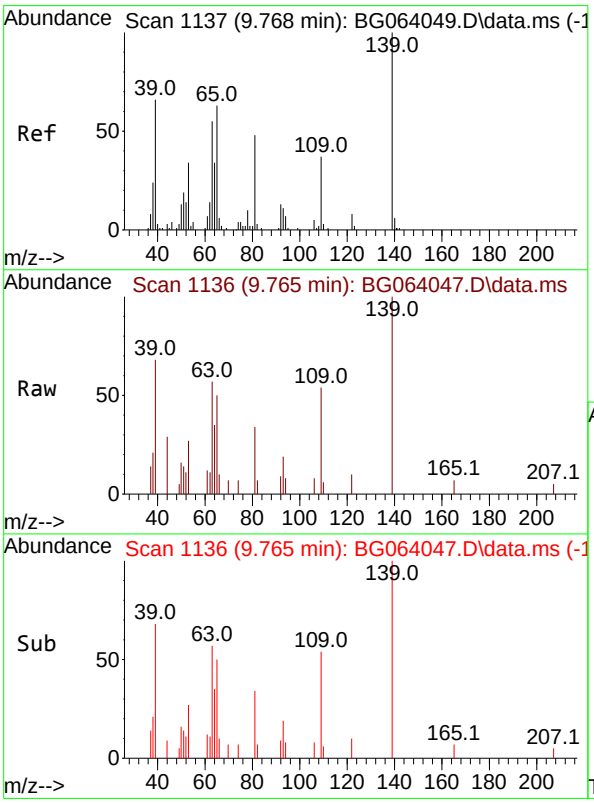
Ion	Ratio	Lower	Upper
82	100		
95	8.2	5.8	8.8
138	15.1	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

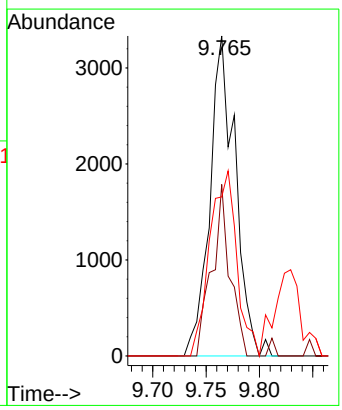
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

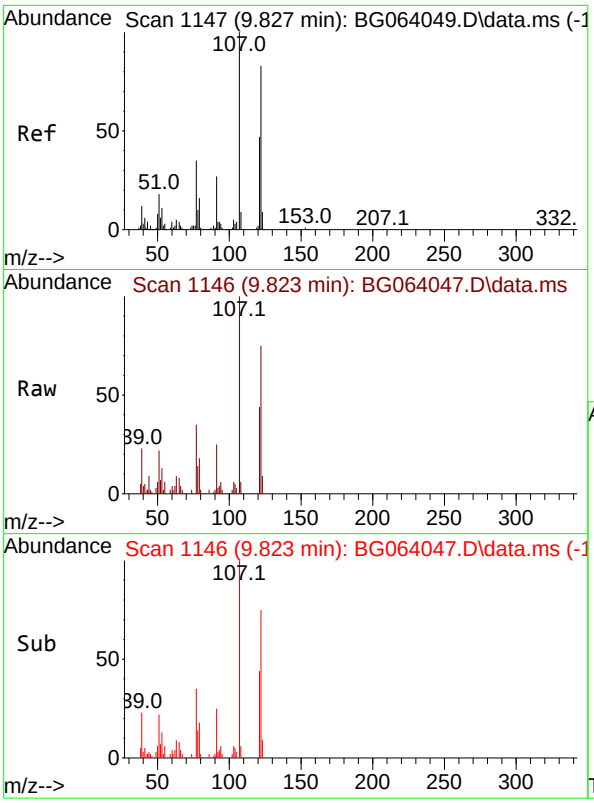


#26
2-Nitrophenol
Concen: 9.891 ng
RT: 9.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:139 Resp: 5521

Ion	Ratio	Lower	Upper
139	100		
109	53.6	29.9	44.9#
65	49.7	50.6	76.0#

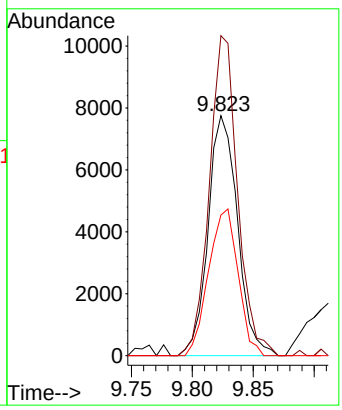




#27
2,4-Dimethylphenol
Concen: 8.631 ng
RT: 9.823 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:122 Resp: 1303

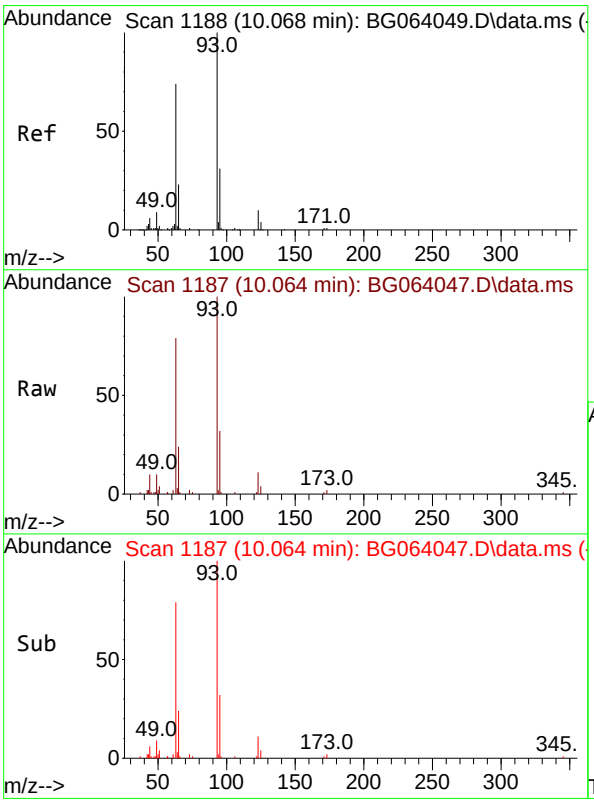
Ion	Ratio	Lower	Upper
122	100		
107	133.3	95.4	143.0
121	58.6	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

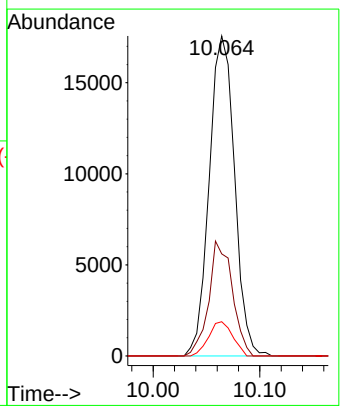
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

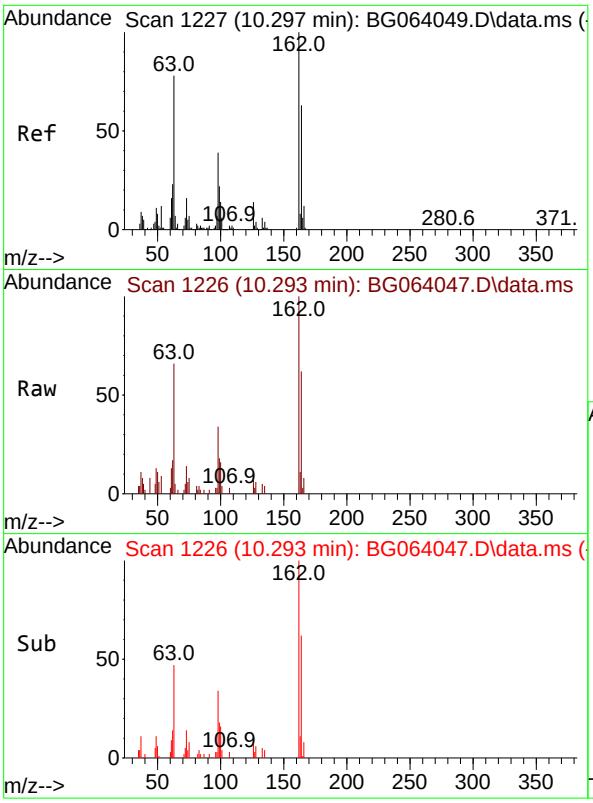


#28
bis(2-Chloroethoxy)methane
Concen: 9.488 ng
RT: 10.064 min Scan# 1187
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 93 Resp: 28970

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.0	37.4
123	10.7	7.6	11.4





#29
2,4-Dichlorophenol
Concen: 8.726 ng
RT: 10.293 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

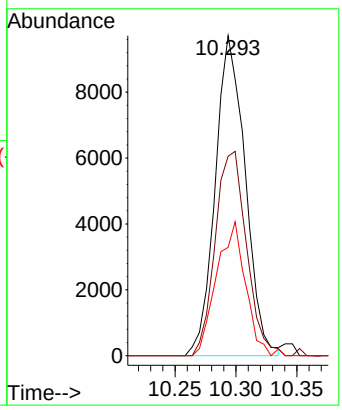
Tgt Ion:162 Resp: 1663

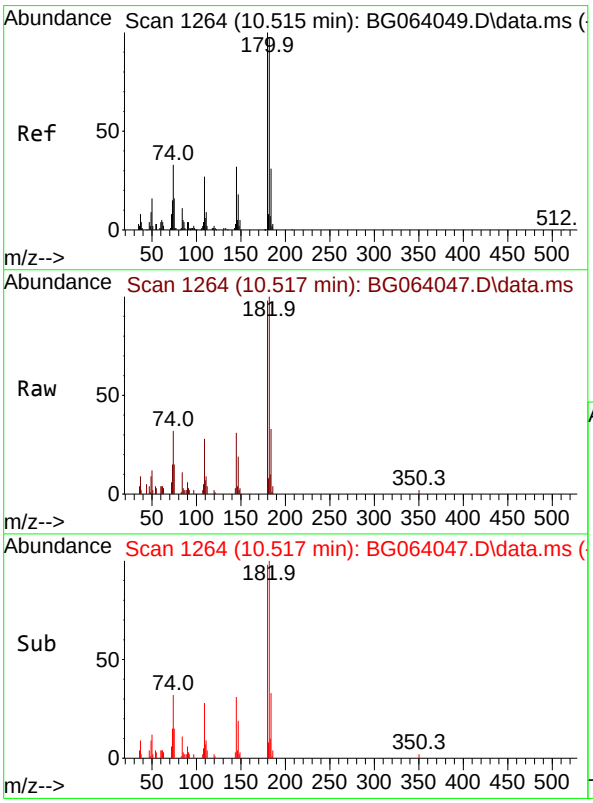
Ion	Ratio	Lower	Upper
162	100		
164	62.3	42.8	82.8
98	33.9	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

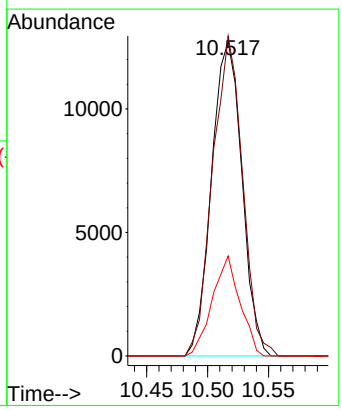


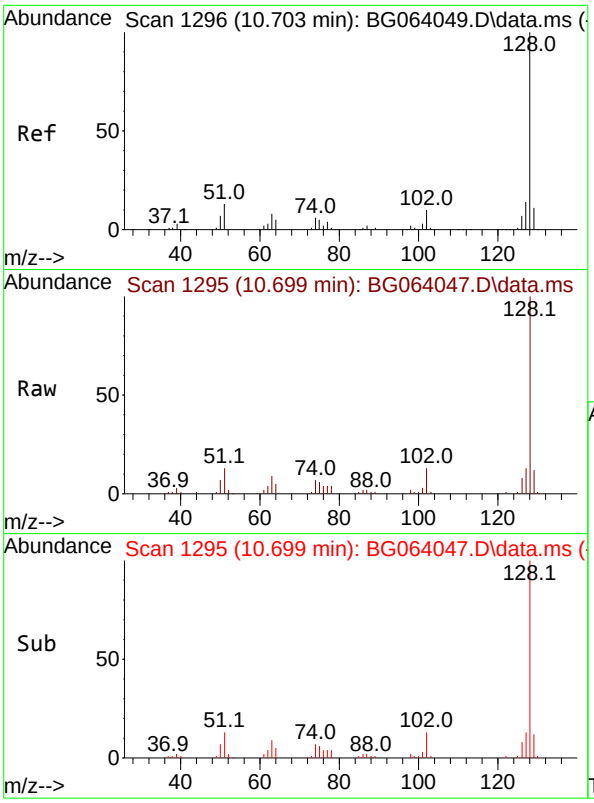


#30
1,2,4-Trichlorobenzene
Concen: 9.579 ng
RT: 10.517 min Scan# 1264
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:180 Resp: 22045

Ion	Ratio	Lower	Upper
180	100		
182	101.7	77.3	115.9
145	31.8	25.2	37.8

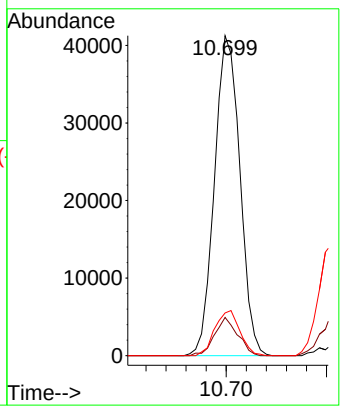




#31
Naphthalene
Concen: 9.669 ng
RT: 10.699 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:128 Resp: 7249

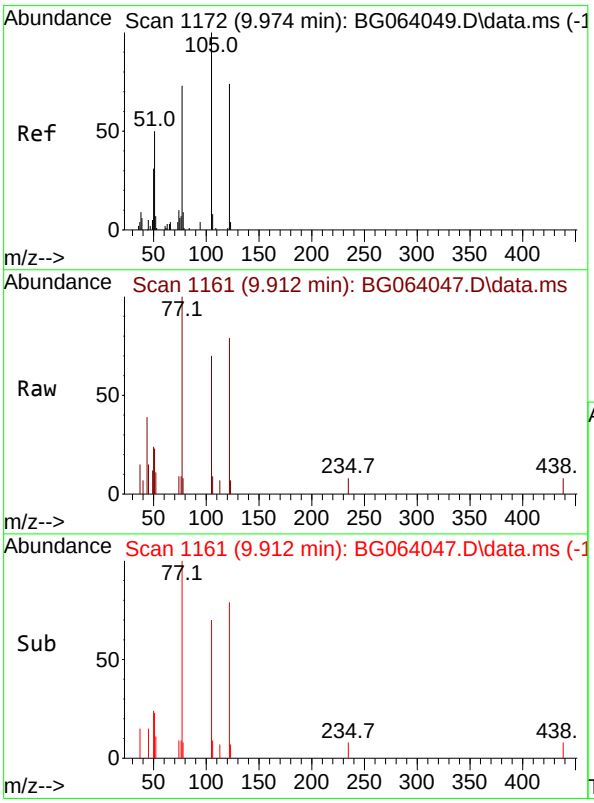
Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.4	12.6
127	13.4	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

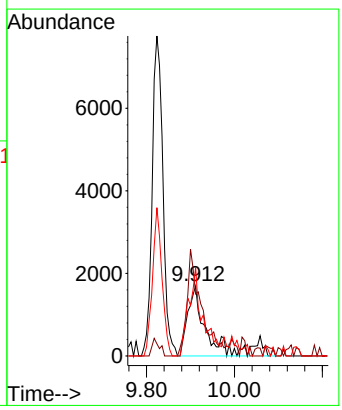
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

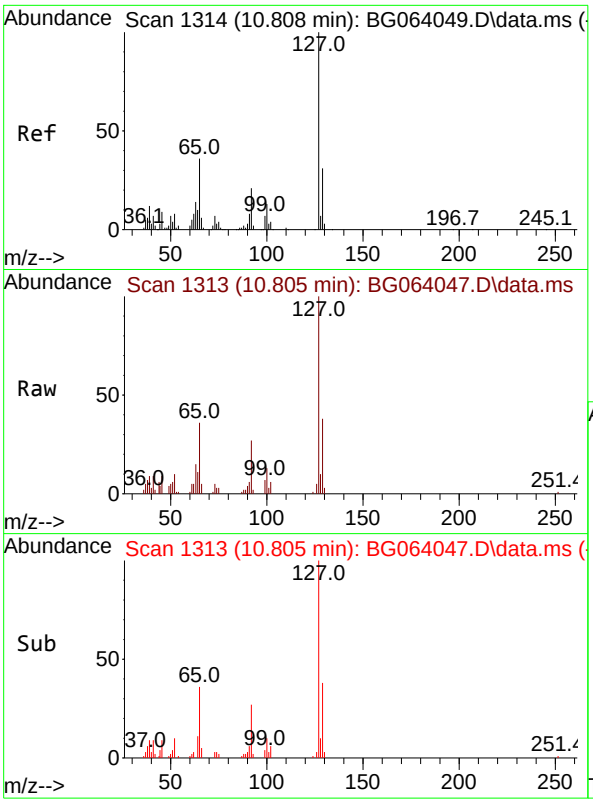


#32
Benzoic acid
Concen: 11.884 ng m
RT: 9.912 min Scan# 1161
Delta R.T. -0.062 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:122 Resp: 5442

Ion	Ratio	Lower	Upper
122	100		
105	88.5	115.0	155.0#
77	126.7	80.9	120.9#

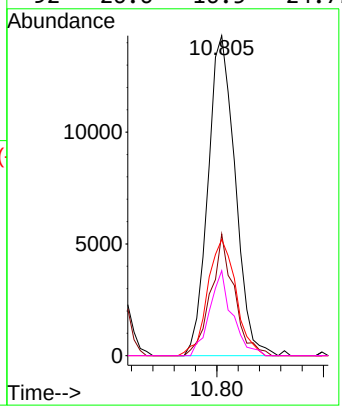




#33
4-Chloroaniline
Concen: 9.226 ng
RT: 10.805 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:127 Resp: 2528

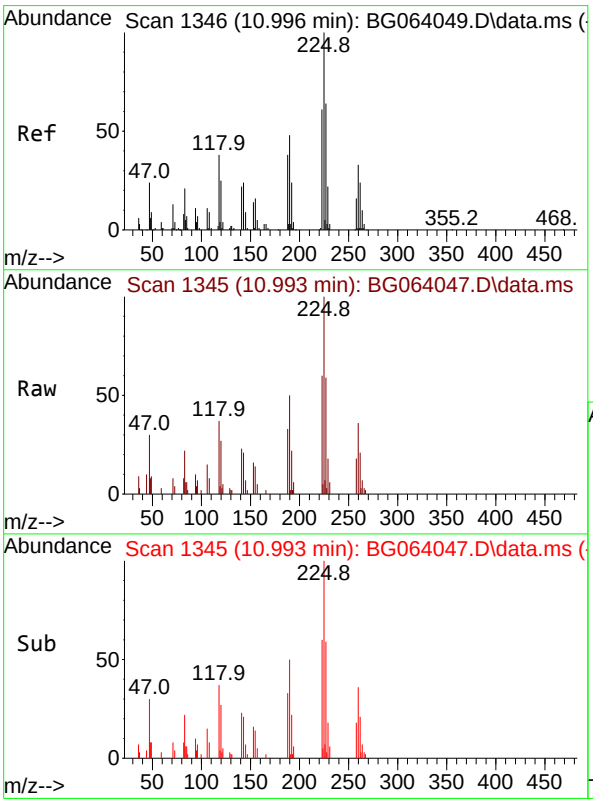
Ion	Ratio	Lower	Upper
127	100		
129	38.0	25.0	37.4#
65	36.3	28.5	42.7
92	26.6	16.5	24.7#



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

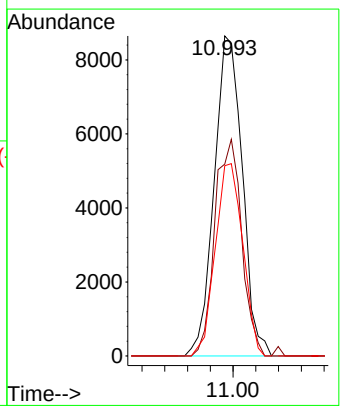
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

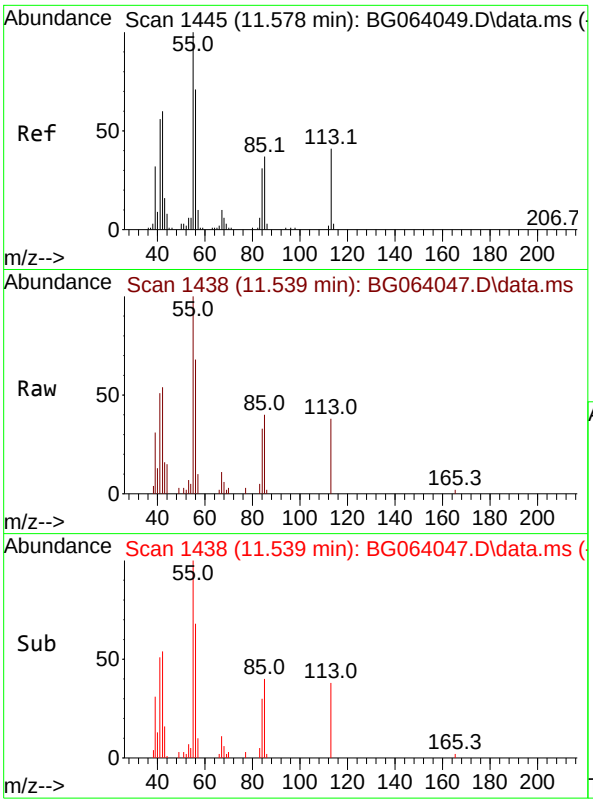


#34
Hexachlorobutadiene
Concen: 9.830 ng
RT: 10.993 min Scan# 1345
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:225 Resp: 14828

Ion	Ratio	Lower	Upper
225	100		
223	60.0	48.5	72.7
227	62.9	51.0	76.6





#35
Caprolactam
Concen: 8.702 ng
RT: 11.539 min Scan# 14
Delta R.T. -0.039 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

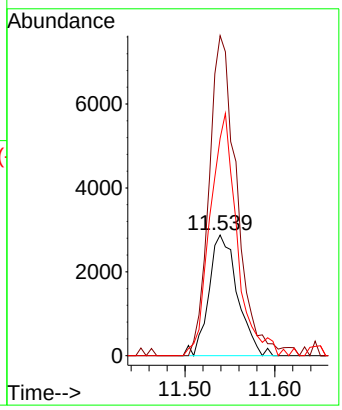
Tgt Ion:113 Resp: 635

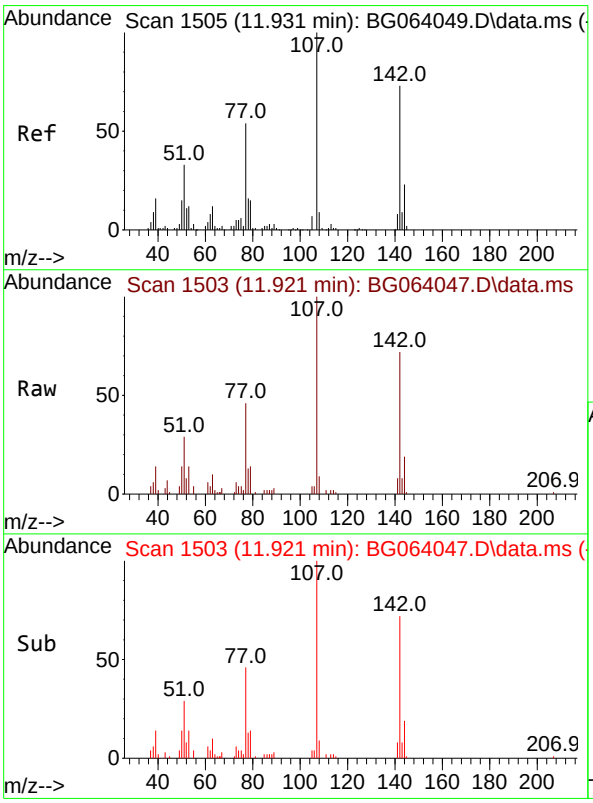
Ion	Ratio	Lower	Upper
113	100		
55	265.4	225.2	265.2
56	180.2	153.4	193.4

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

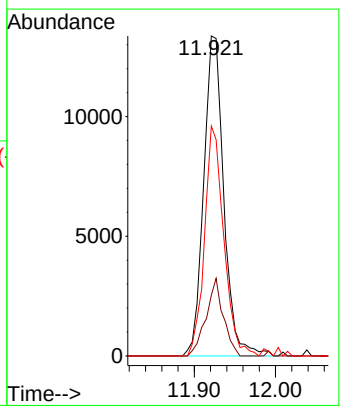


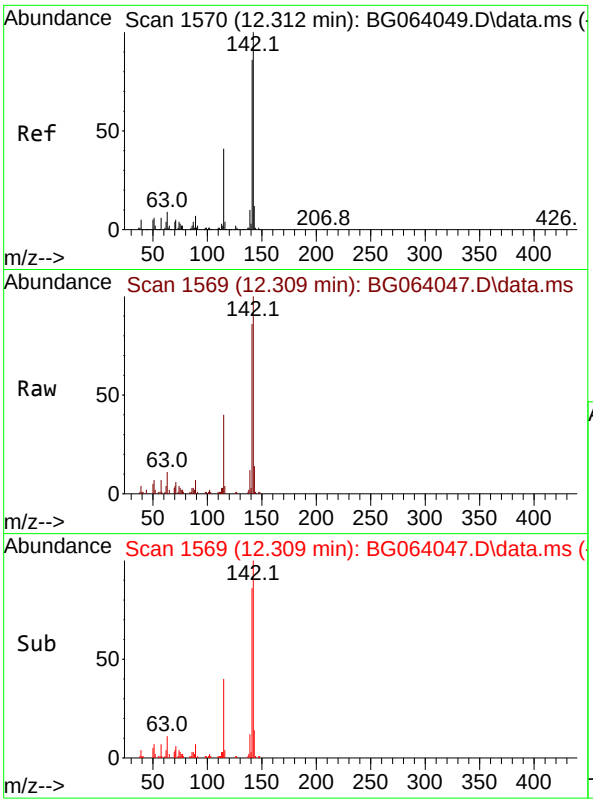


#36
4-Chloro-3-methylphenol
Concen: 9.192 ng
RT: 11.921 min Scan# 1503
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:107 Resp: 22970

Ion	Ratio	Lower	Upper
107	100		
144	19.0	18.6	28.0
142	71.8	58.0	87.0

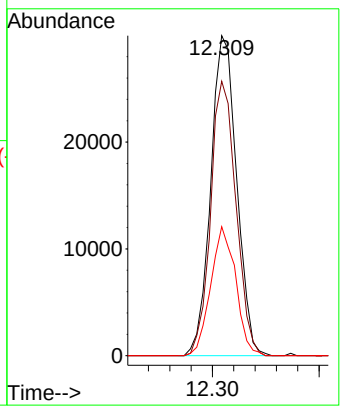




#37
2-Methylnaphthalene
Concen: 9.552 ng
RT: 12.309 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:142 Resp: 5055

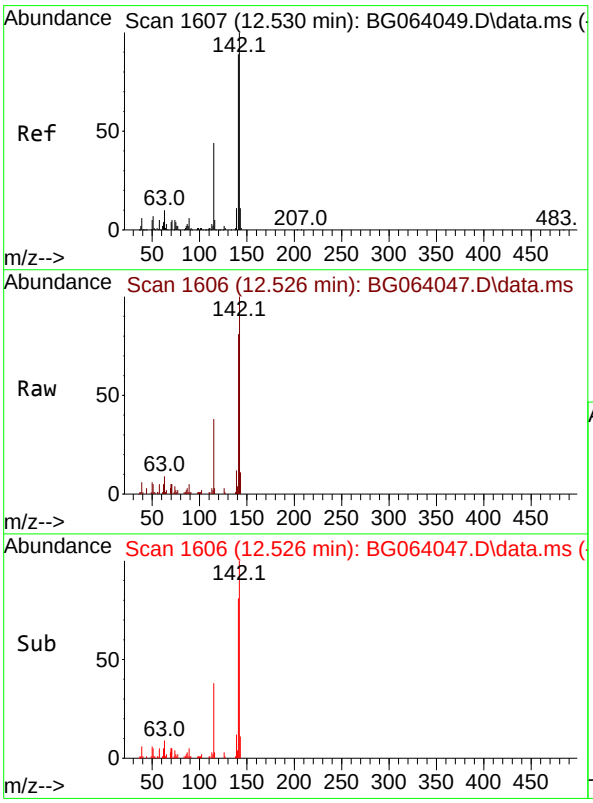
Ion	Ratio	Lower	Upper
142	100		
141	85.8	68.6	103.0
115	40.3	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

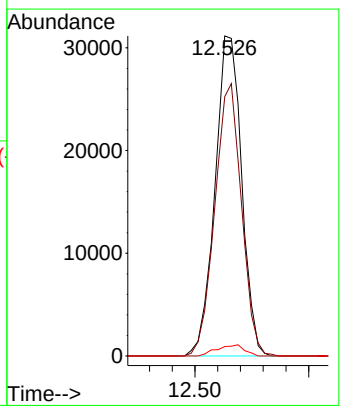
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

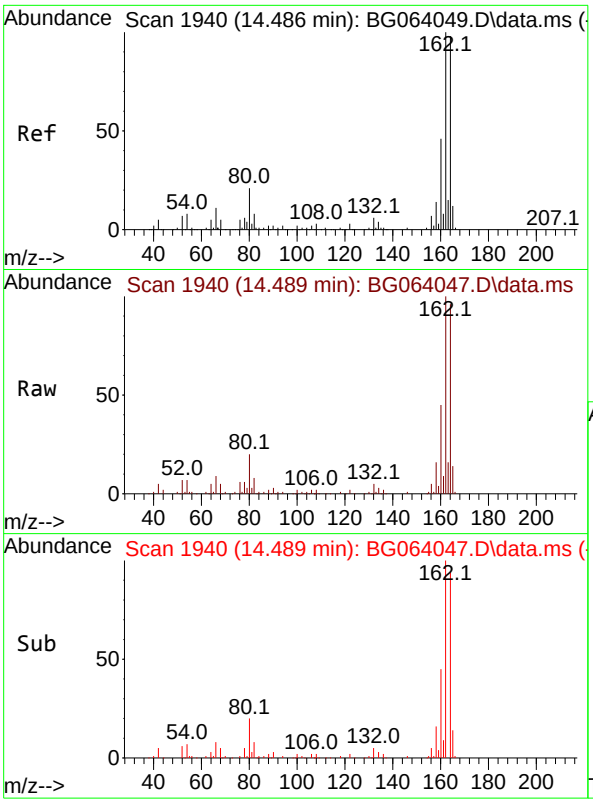


#38
1-Methylnaphthalene
Concen: 9.762 ng
RT: 12.526 min Scan# 1606
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:142 Resp: 50620

Ion	Ratio	Lower	Upper
142	100		
141	81.1	71.2	106.8
116	3.0	3.6	5.4#

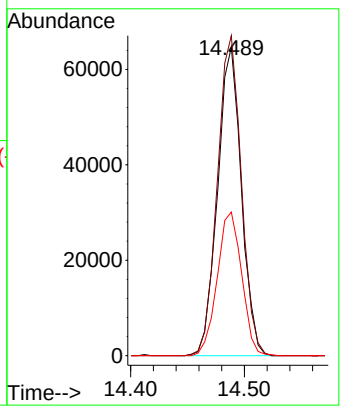




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.489 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:164 Resp: 9375

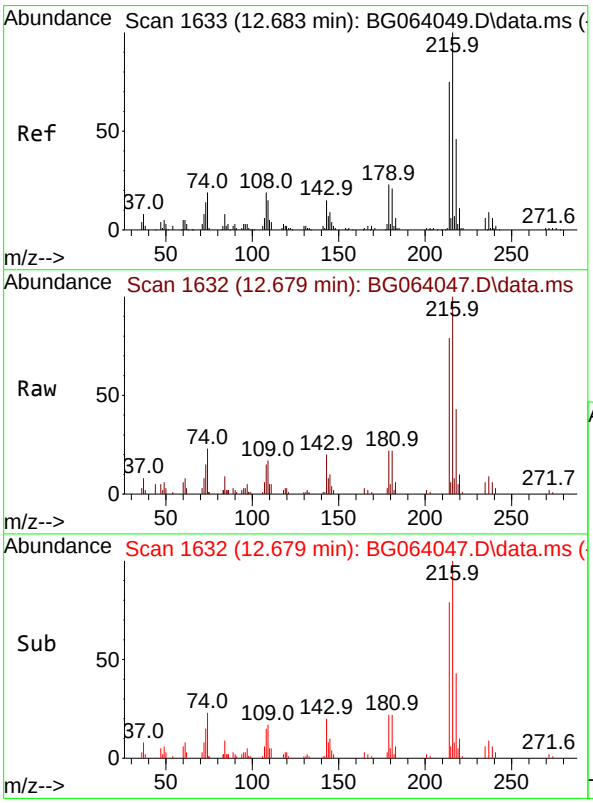
Ion	Ratio	Lower	Upper
164	100		
162	103.7	81.4	122.0
160	46.5	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

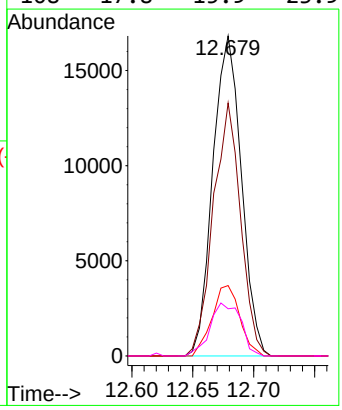
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

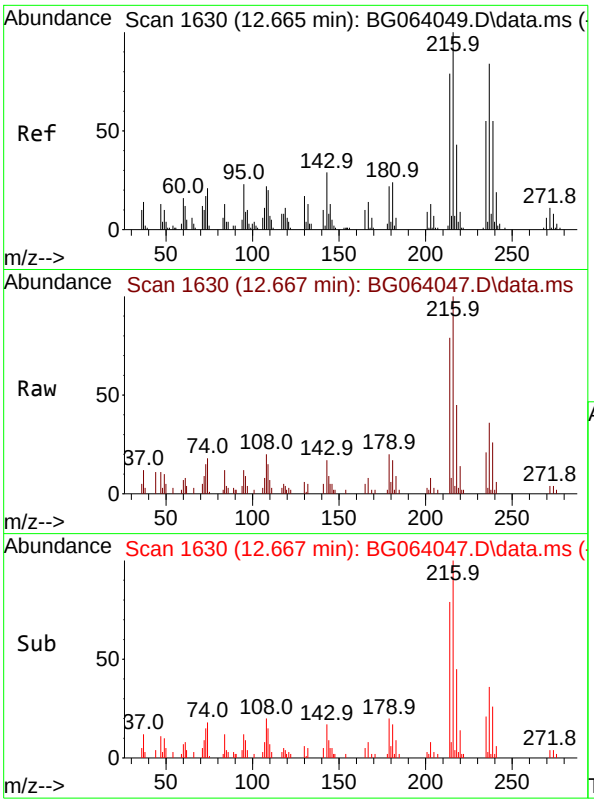


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.232 ng
RT: 12.679 min Scan# 1632
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:216 Resp: 27386

Ion	Ratio	Lower	Upper
216	100		
214	75.7	61.7	92.5
179	21.6	17.9	26.9
108	17.8	15.9	23.9

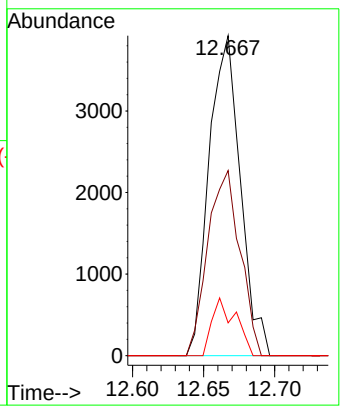




#41
Hexachlorocyclopentadiene
Concen: 7.985 ng
RT: 12.667 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:237 Resp: 601

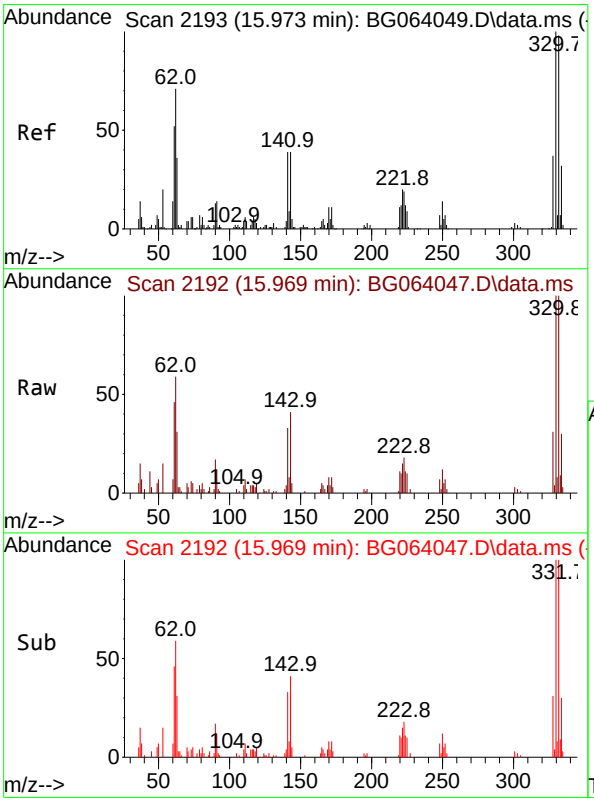
Ion	Ratio	Lower	Upper
237	100		
235	57.9	46.0	86.0
272	10.2	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

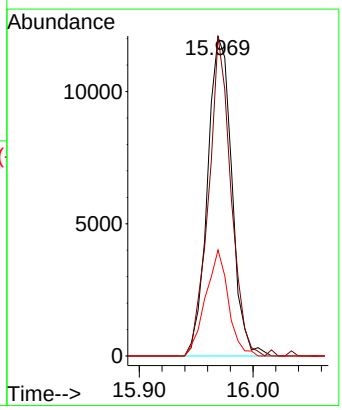
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

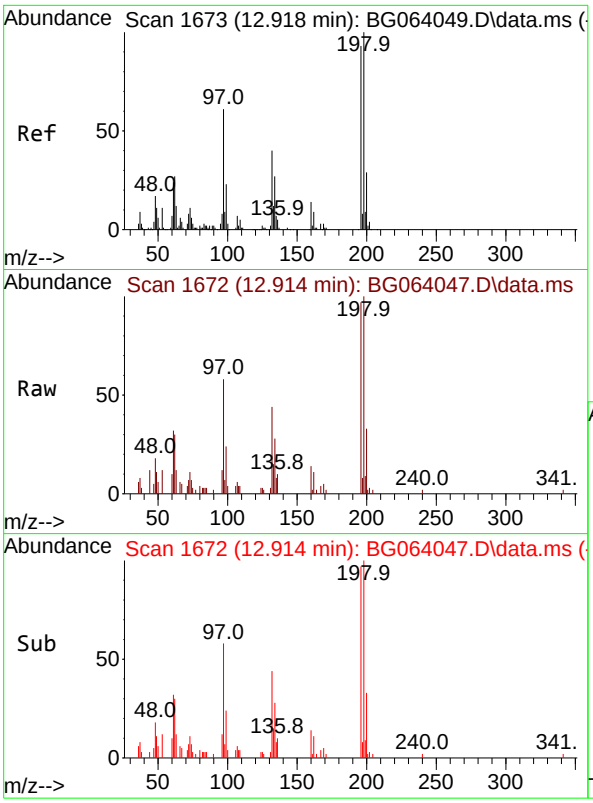


#42
2,4,6-Tribromophenol
Concen: 17.174 ng
RT: 15.969 min Scan# 2192
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:330 Resp: 17898

Ion	Ratio	Lower	Upper
330	100		
332	91.7	76.7	115.1
141	31.2	29.7	44.5

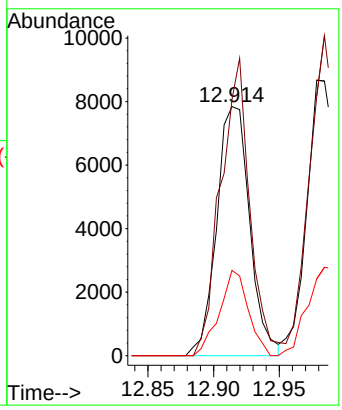




#43
2,4,6-Trichlorophenol
Concen: 8.693 ng
RT: 12.914 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:196 Resp: 1371

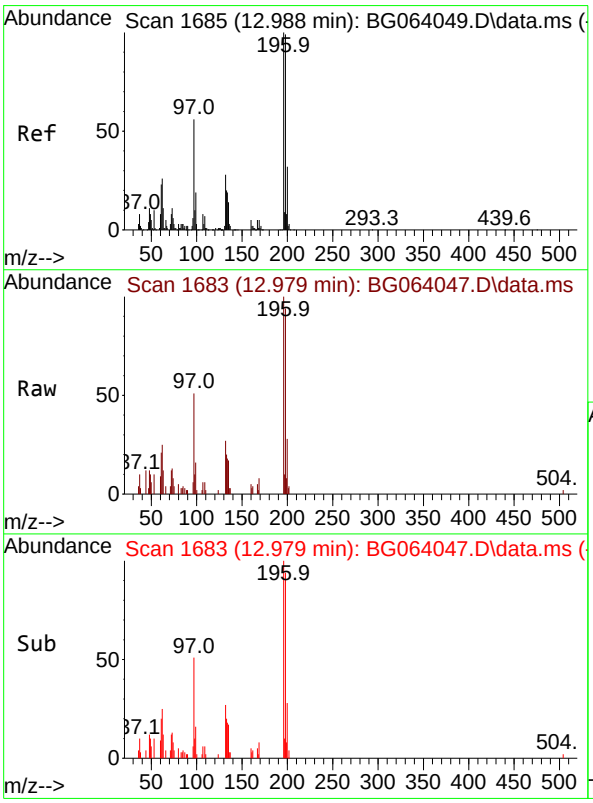
Ion	Ratio	Lower	Upper
196	100		
198	102.8	85.6	128.4
200	36.2	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

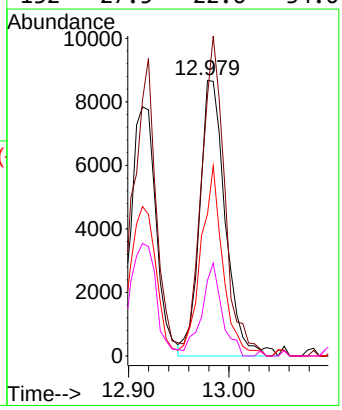
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

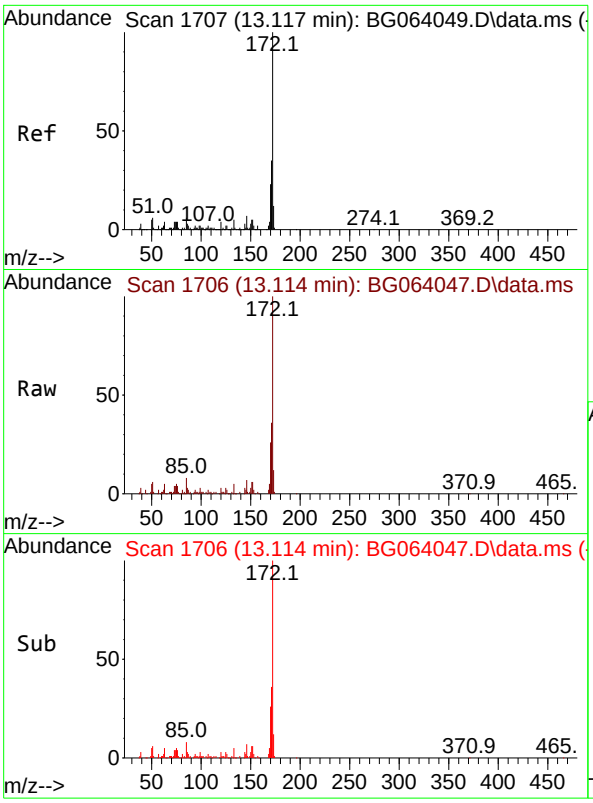


#44
2,4,5-Trichlorophenol
Concen: 8.825 ng
RT: 12.979 min Scan# 1683
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:196 Resp: 15468

Ion	Ratio	Lower	Upper
196	100		
198	94.3	79.5	119.3
97	51.4	45.2	67.8
132	27.5	22.6	34.0

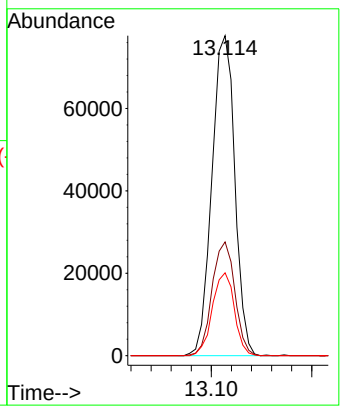




#45
2-Fluorobiphenyl
Concen: 19.881 ng
RT: 13.114 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:172 Resp: 12279

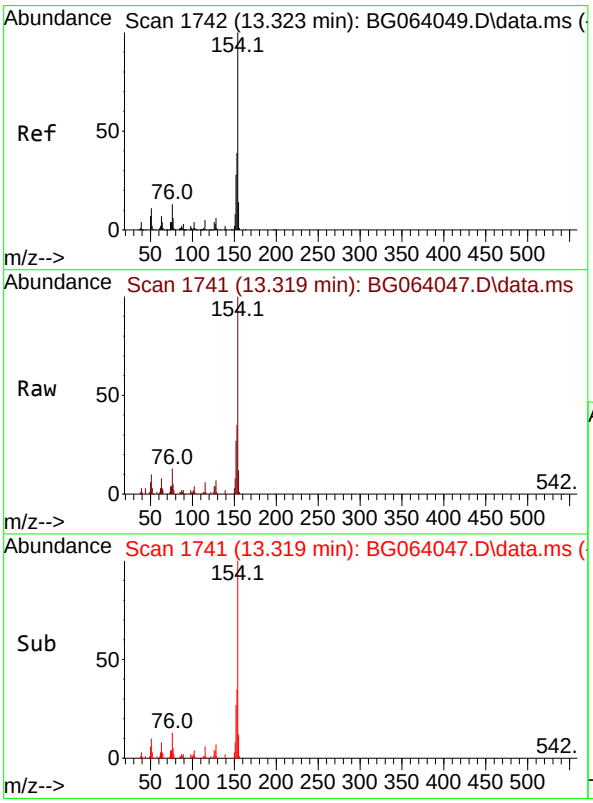
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.0	42.0
170	25.9	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

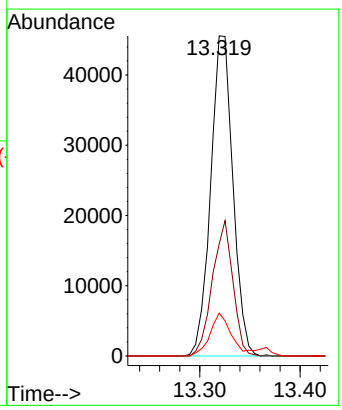
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

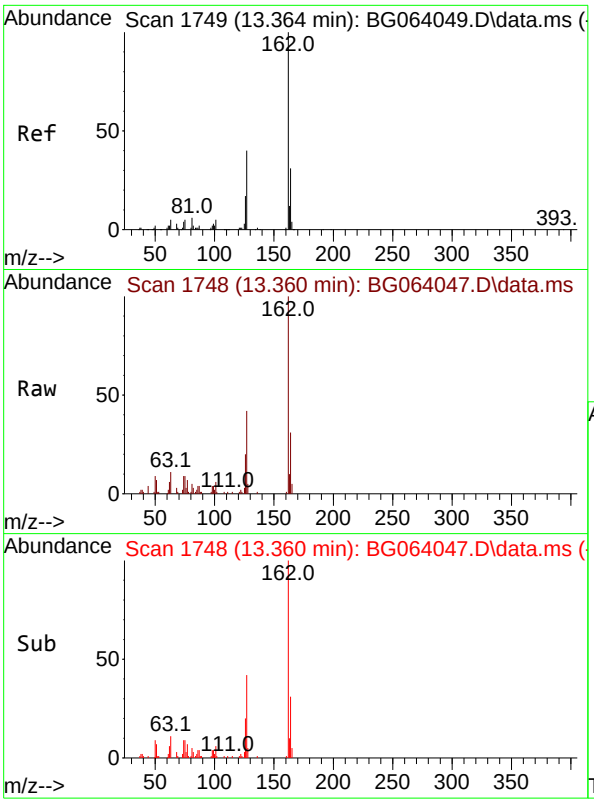


#46
1,1'-Biphenyl
Concen: 9.918 ng
RT: 13.319 min Scan# 1741
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:154 Resp: 70250

Ion	Ratio	Lower	Upper
154	100		
153	35.0	19.5	59.5
76	13.4	0.0	33.5

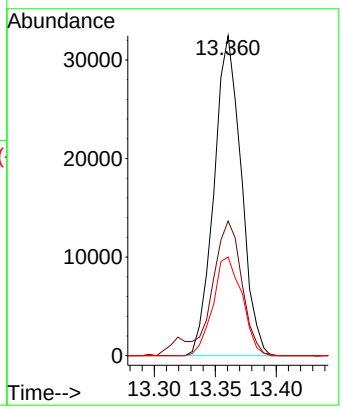




#47
2-Chloronaphthalene
Concen: 9.755 ng
RT: 13.360 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:162 Resp: 5039

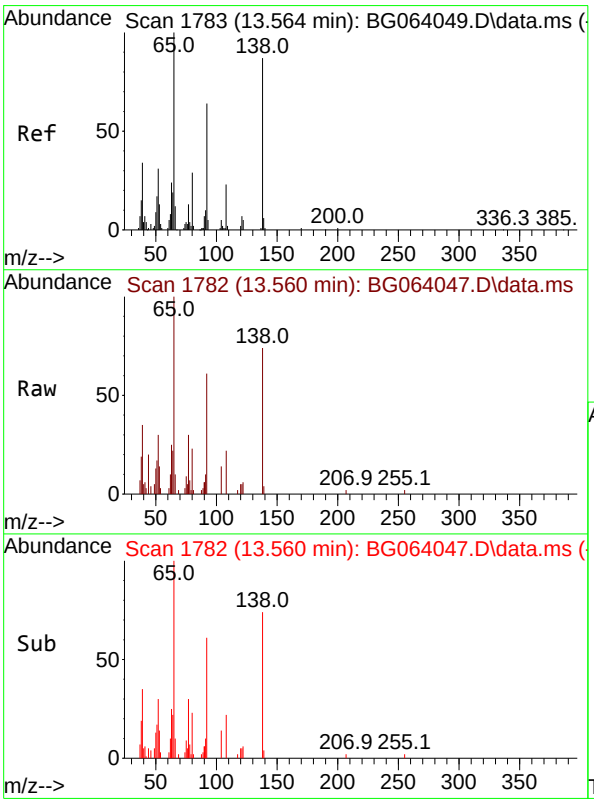
Ion	Ratio	Lower	Upper
162	100		
127	42.1	35.0	52.4
164	30.8	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

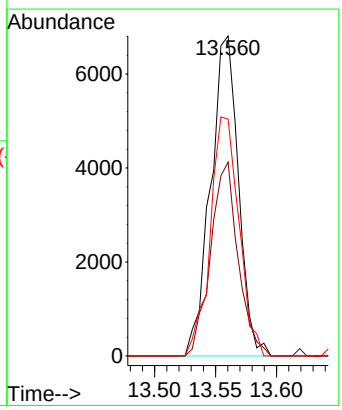
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

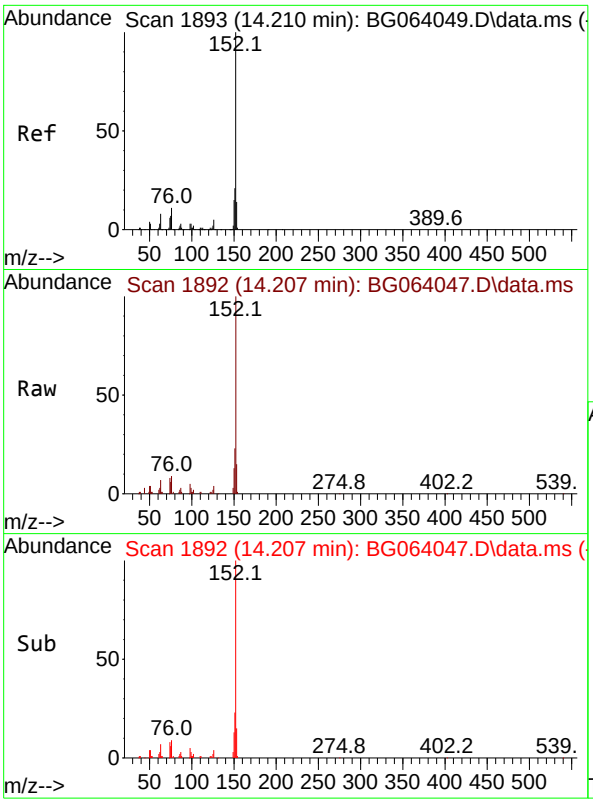


#48
2-Nitroaniline
Concen: 9.850 ng
RT: 13.560 min Scan# 1782
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 65 Resp: 10834

Ion	Ratio	Lower	Upper
65	100		
92	60.6	51.2	76.8
138	74.0	69.4	104.2

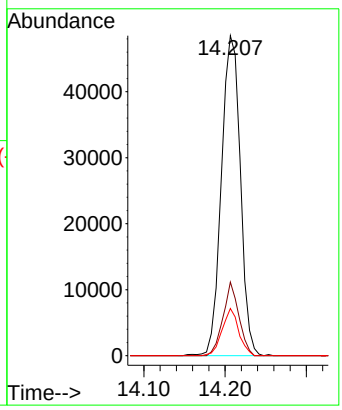




#49
Acenaphthylene
Concen: 9.621 ng
RT: 14.207 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:152 Resp: 7861

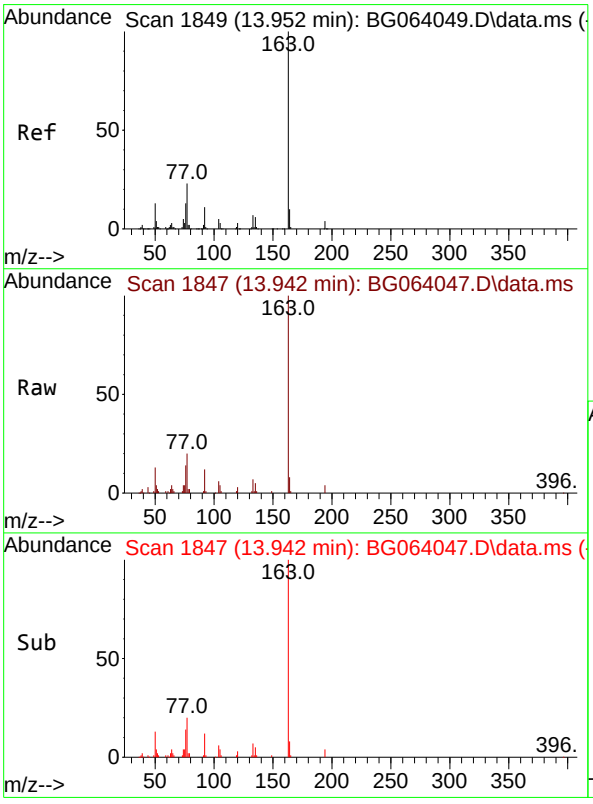
Ion	Ratio	Lower	Upper
152	100		
151	23.0	16.4	24.6
153	14.8	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

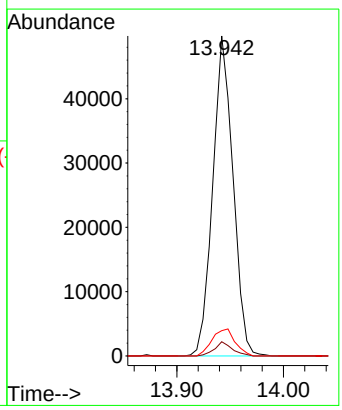
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

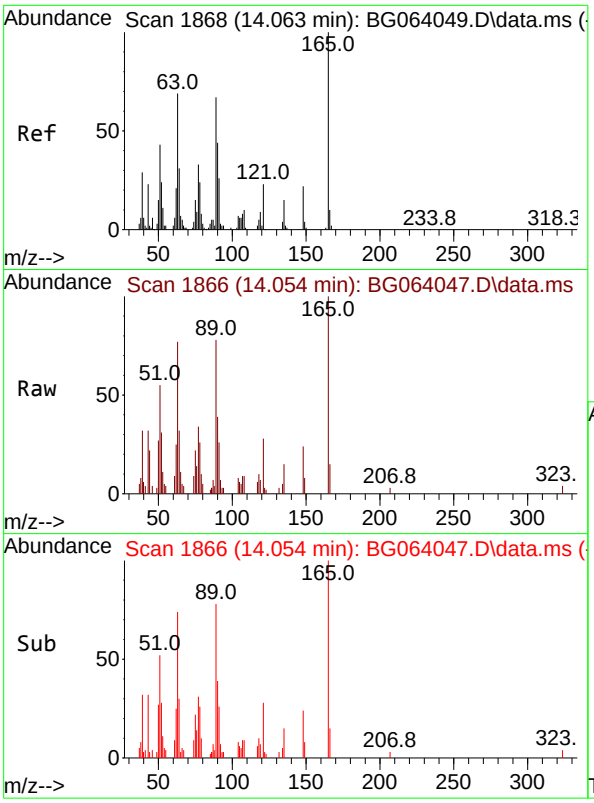


#50
Dimethylphthalate
Concen: 9.487 ng
RT: 13.942 min Scan# 1847
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:163 Resp: 65659

Ion	Ratio	Lower	Upper
163	100		
194	4.5	2.8	4.2#
164	7.9	8.2	12.2#





#51
2,6-Dinitrotoluene
Concen: 9.566 ng
RT: 14.054 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

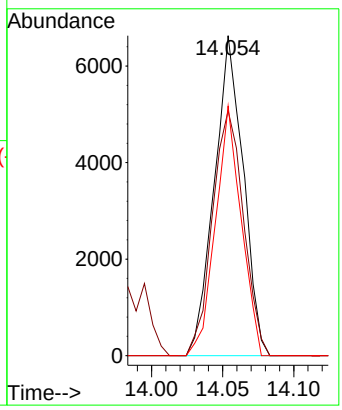
Tgt Ion:165 Resp: 937

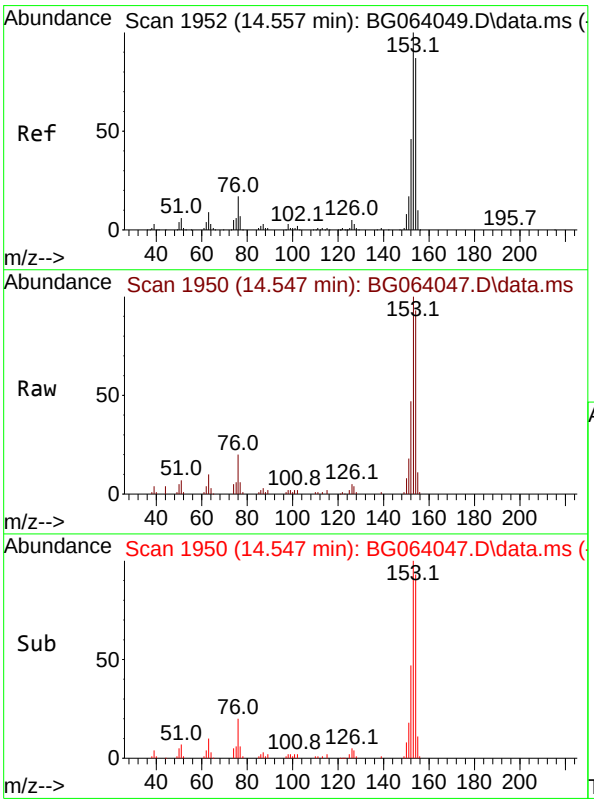
Ion	Ratio	Lower	Upper
165	100		
63	76.6	56.7	85.1
89	78.0	53.7	80.5

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

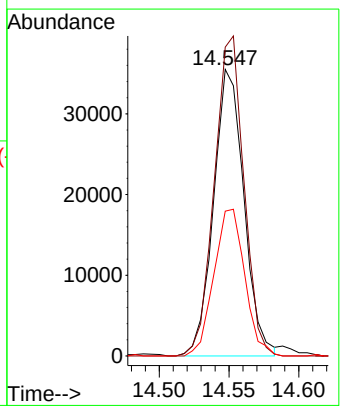


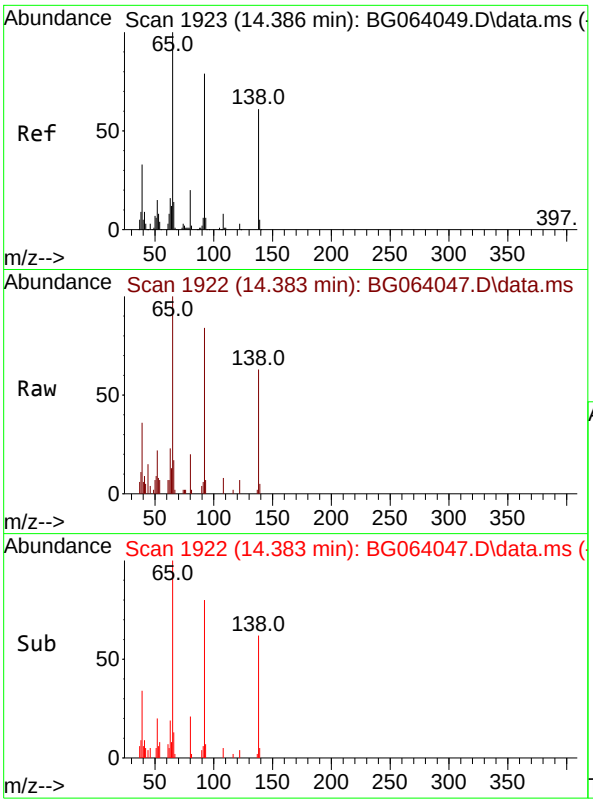


#52
Acenaphthene
Concen: 9.797 ng m
RT: 14.547 min Scan# 1950
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:154 Resp: 53833

Ion	Ratio	Lower	Upper
154	100		
153	107.8	91.6	137.4
152	50.6	42.5	63.7

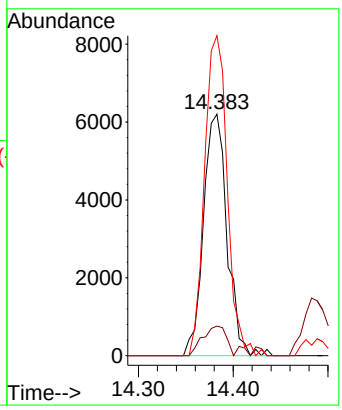




#53
3-Nitroaniline
Concen: 7.997 ng
RT: 14.383 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:138 Resp: 1069

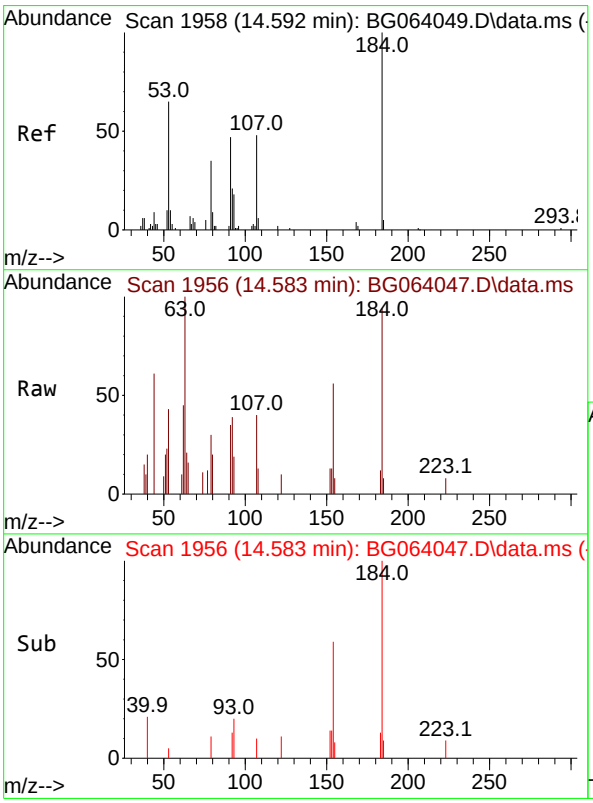
Ion	Ratio	Lower	Upper
138	100		
108	12.3	10.1	15.1
92	132.5	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

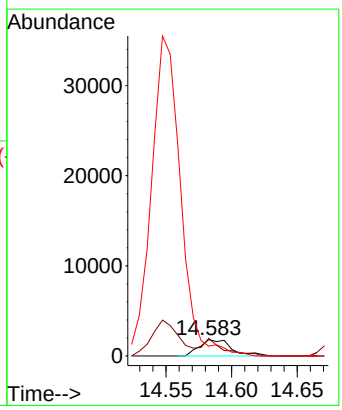
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

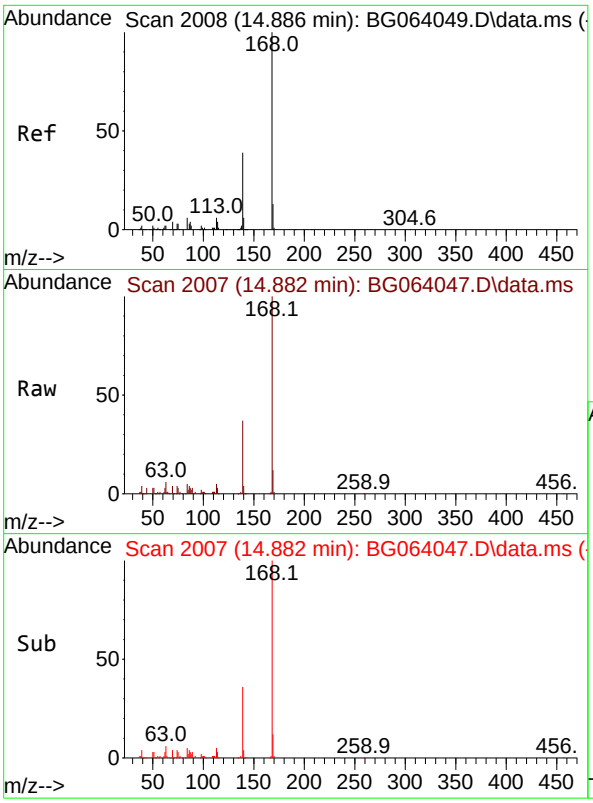


#54
2,4-Dinitrophenol
Concen: 12.640 ng
RT: 14.583 min Scan# 1956
Delta R.T. -0.009 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:184 Resp: 3090

Ion	Ratio	Lower	Upper
184	100		
63	106.9	57.5	86.3#
154	59.5	52.3	78.5

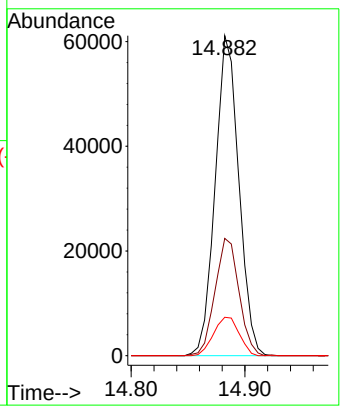




#55
Dibenzofuran
Concen: 9.924 ng
RT: 14.882 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:168 Resp: 8816

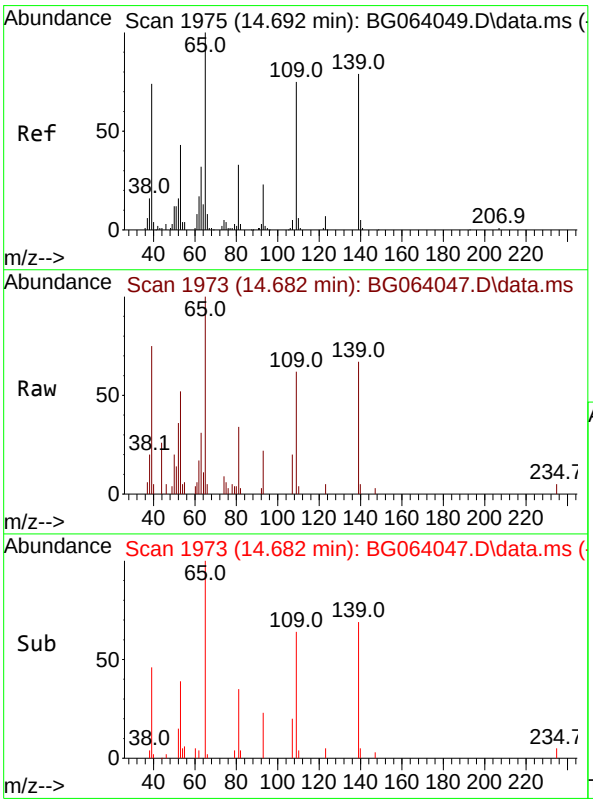
Ion	Ratio	Lower	Upper
168	100		
139	36.7	31.1	46.7
169	12.0	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

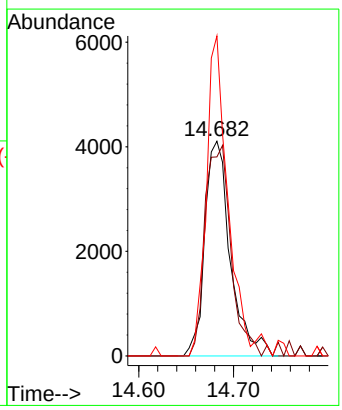
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

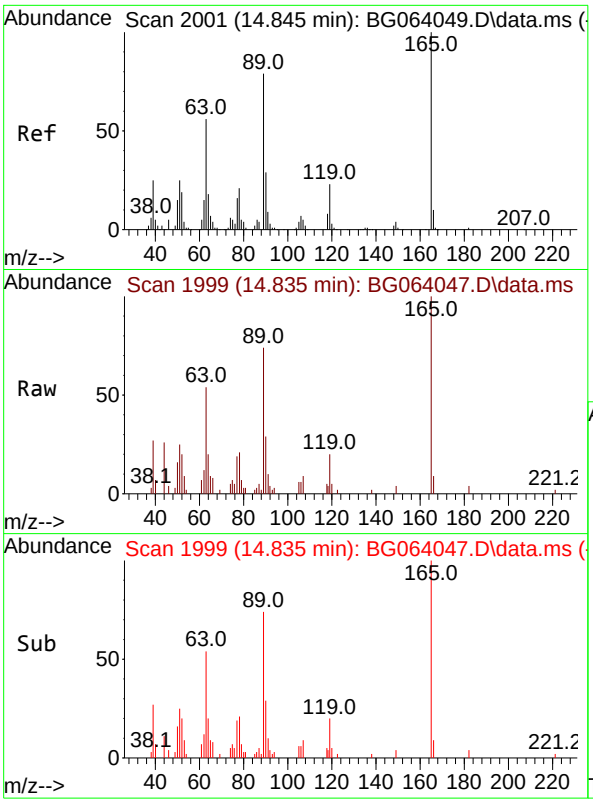


#56
4-Nitrophenol
Concen: 6.849 ng
RT: 14.682 min Scan# 1973
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:139 Resp: 7683

Ion	Ratio	Lower	Upper
139	100		
109	92.7	74.9	114.9
65	149.0	106.8	146.8#

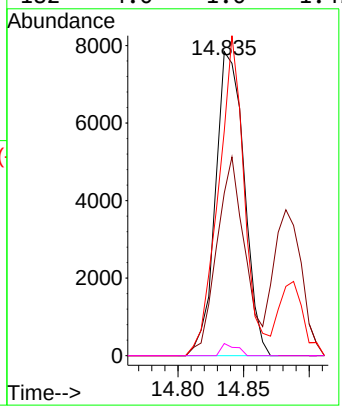




#57
2,4-Dinitrotoluene
Concen: 9.344 ng
RT: 14.835 min Scan# 1
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:165 Resp: 1194

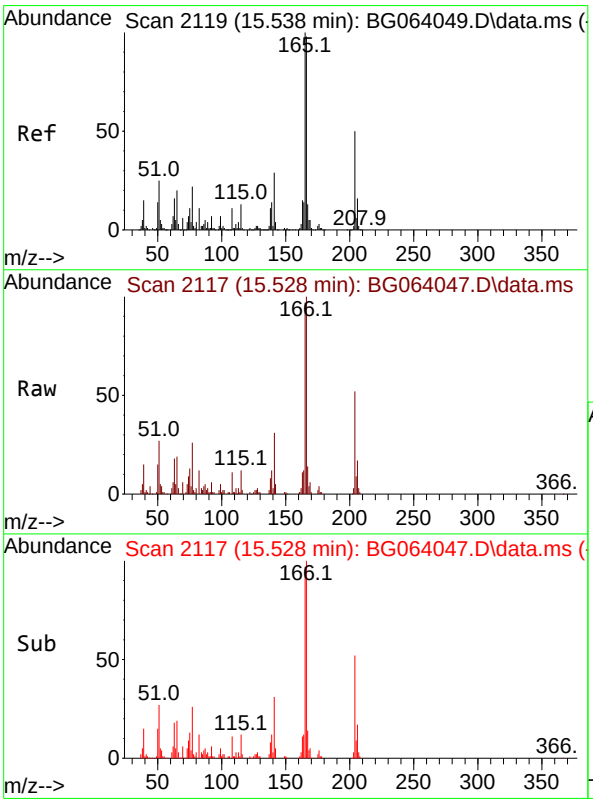
Ion	Ratio	Lower	Upper
165	100		
63	53.5	45.0	67.6
89	74.0	63.1	94.7
182	4.0	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

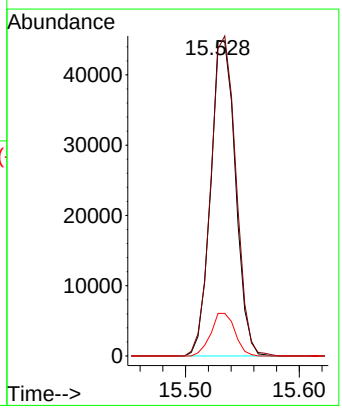
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

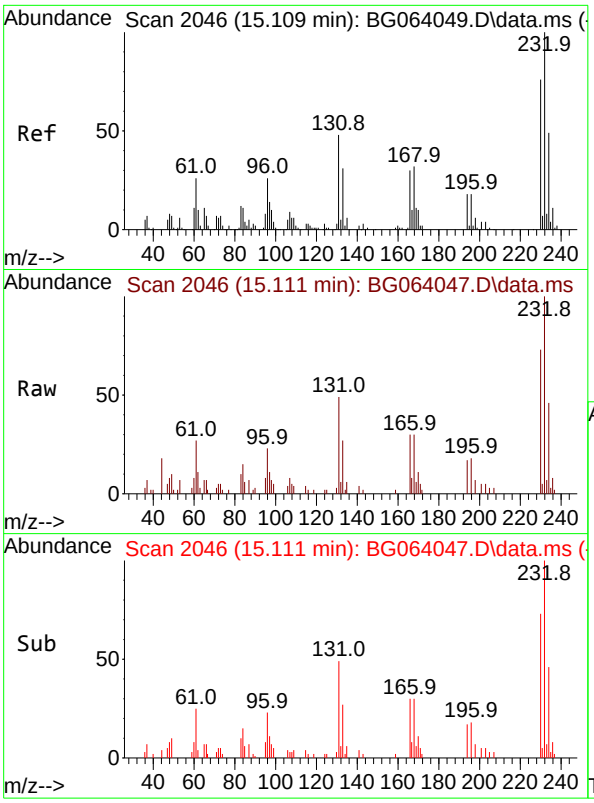


#58
Fluorene
Concen: 9.821 ng
RT: 15.528 min Scan# 2117
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:166 Resp: 67954

Ion	Ratio	Lower	Upper
166	100		
165	97.4	81.8	122.8
167	13.5	10.8	16.2

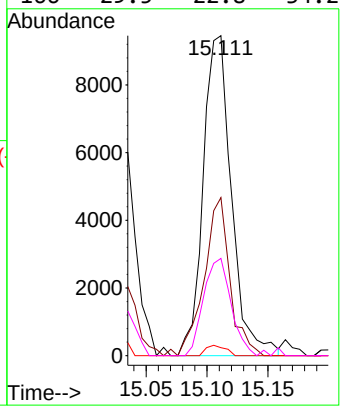




#59
2,3,4,6-Tetrachlorophenol
Concen: 8.943 ng
RT: 15.111 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:232 Resp: 1528

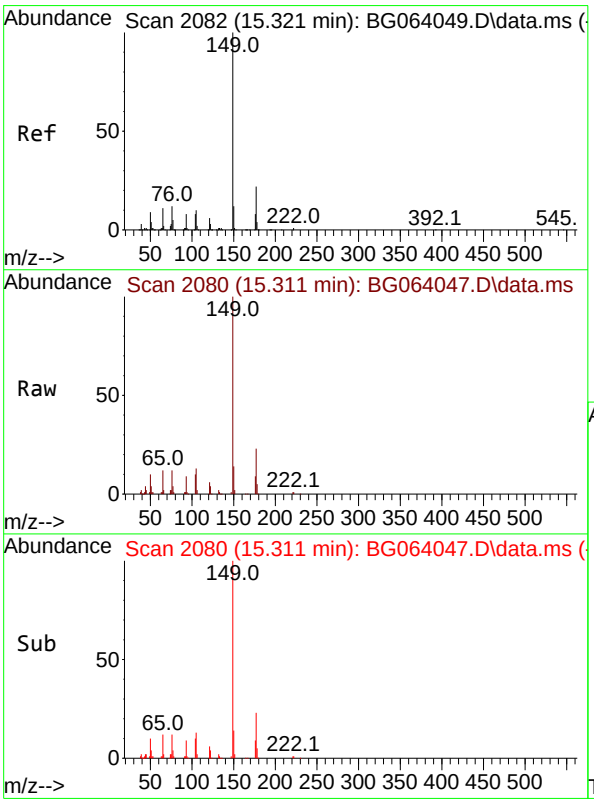
Ion	Ratio	Lower	Upper
232	100		
131	45.2	36.3	54.5
130	2.2	1.9	2.9
166	29.5	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

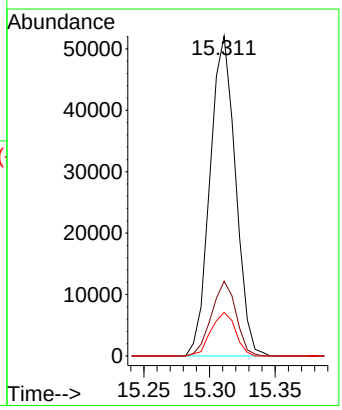
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

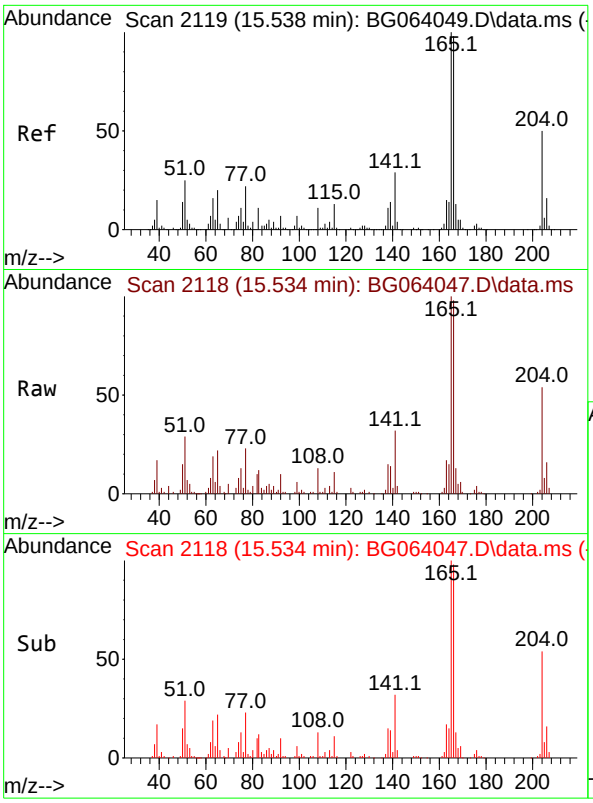


#60
Diethylphthalate
Concen: 9.363 ng
RT: 15.311 min Scan# 2080
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 70346

Ion	Ratio	Lower	Upper
149	100		
177	23.4	17.4	26.2
150	13.6	9.4	14.2

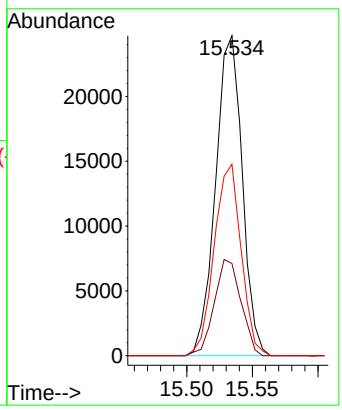




#61
4-Chlorophenyl-phenylether
Concen: 10.139 ng
RT: 15.534 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:204 Resp: 3486

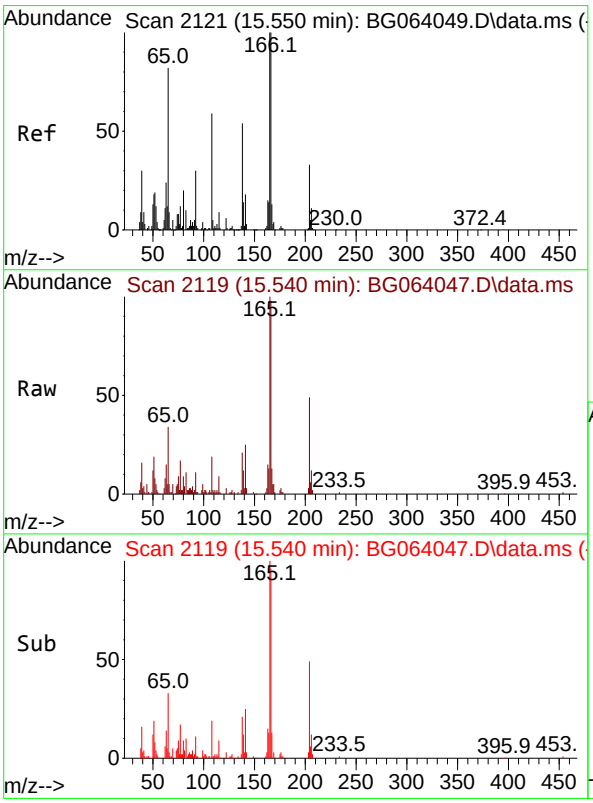
Ion	Ratio	Lower	Upper
204	100		
206	28.8	25.5	38.3
141	59.8	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

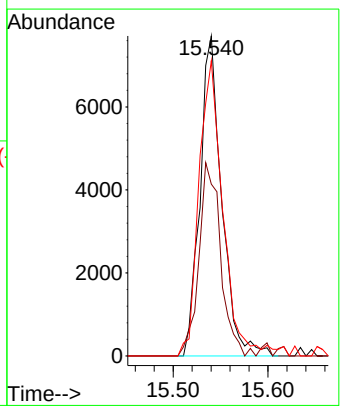
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

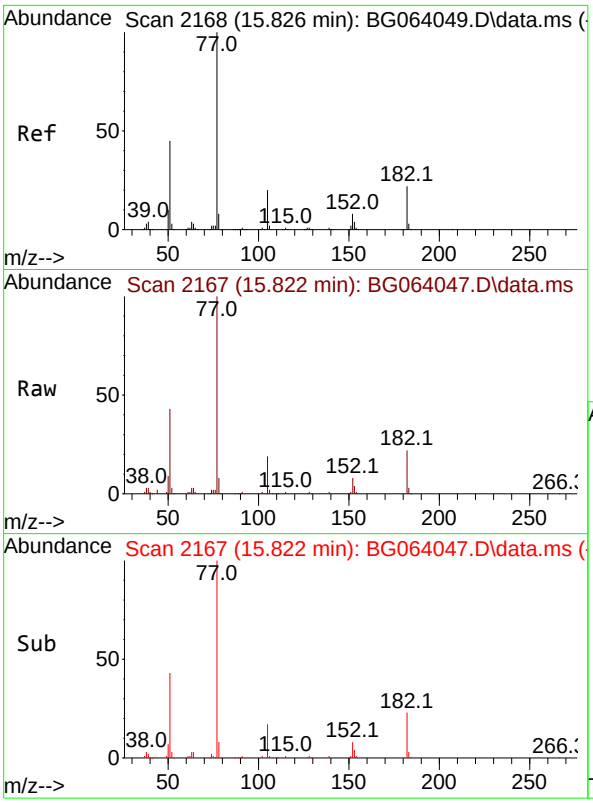


#62
4-Nitroaniline
Concen: 8.534 ng
RT: 15.540 min Scan# 2119
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:138 Resp: 12324

Ion	Ratio	Lower	Upper
138	100		
92	53.7	36.1	76.1
108	92.2	87.9	127.9

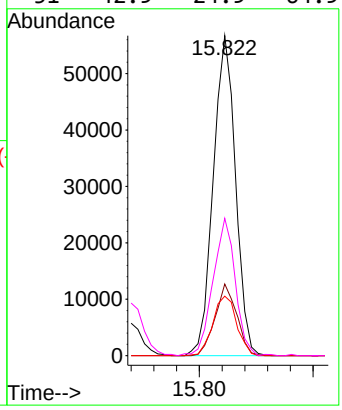




#63
Azobenzene
Concen: 9.620 ng
RT: 15.822 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion: 77 Resp: 7712

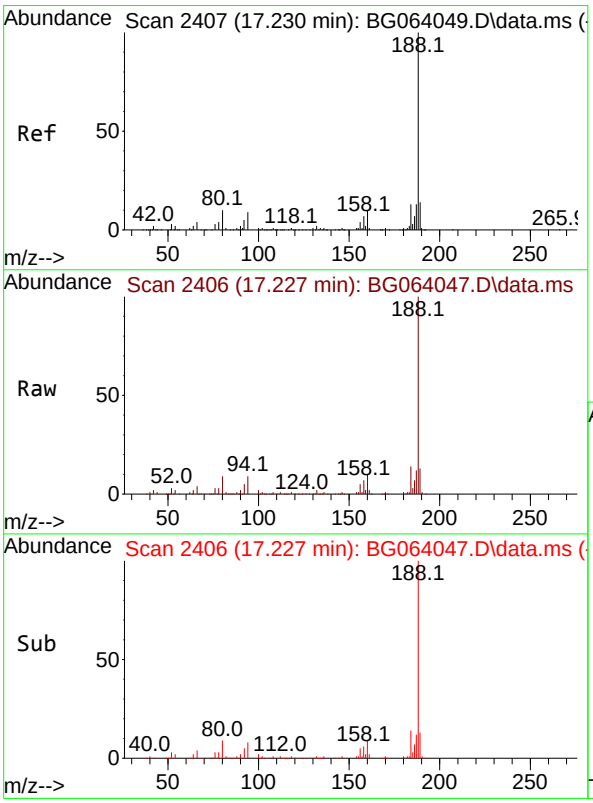
Ion	Ratio	Lower	Upper
77	100		
182	22.4	2.4	42.4
105	18.6	0.0	40.0
51	42.9	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

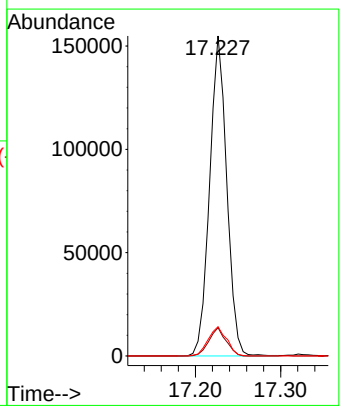
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

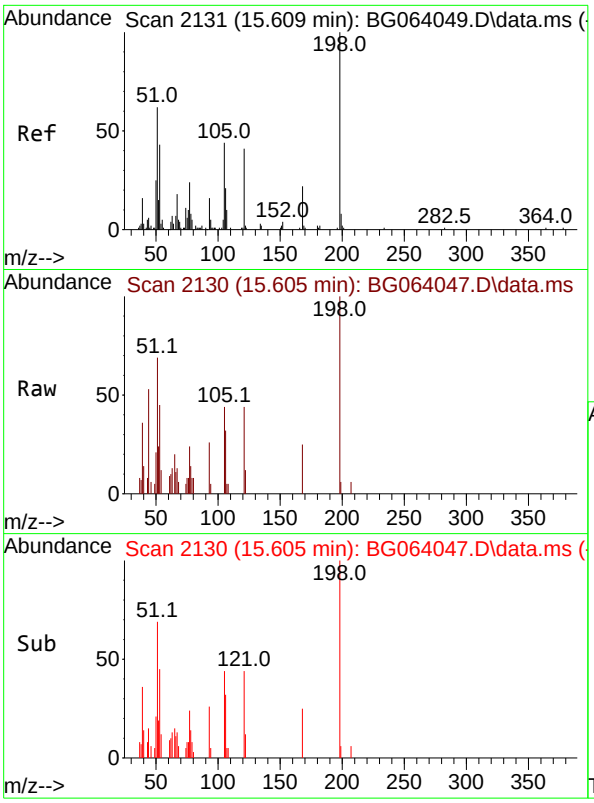


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:188 Resp: 216134

Ion	Ratio	Lower	Upper
188	100		
94	8.9	6.9	10.3
80	9.2	8.1	12.1

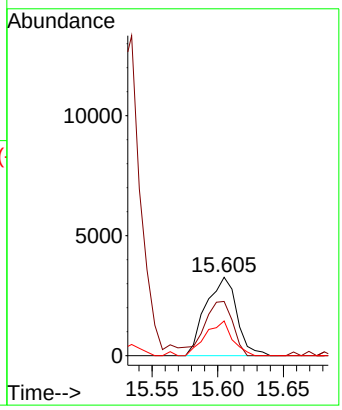




#65
4,6-Dinitro-2-methylphenol
Concen: 12.953 ng
RT: 15.605 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:198 Resp: 537

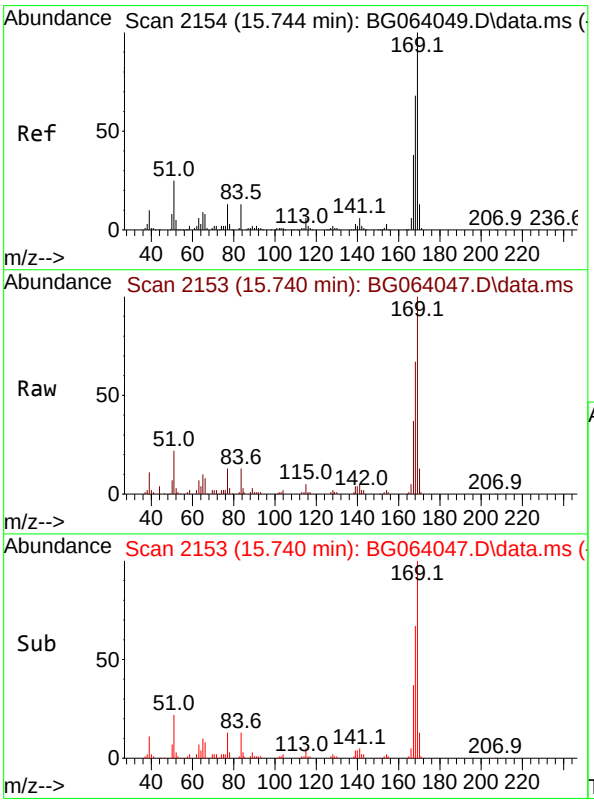
Ion	Ratio	Lower	Upper
198	100		
51	69.2	45.6	85.6
105	44.3	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

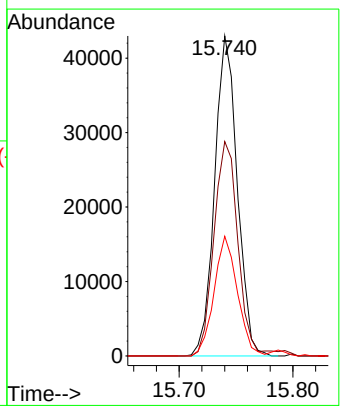
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

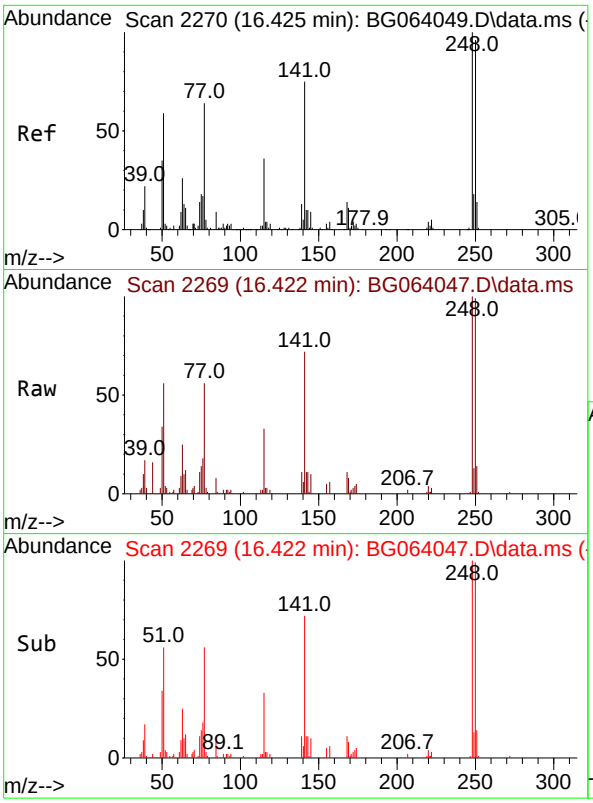


#66
n-Nitrosodiphenylamine
Concen: 9.727 ng
RT: 15.740 min Scan# 2153
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:169 Resp: 59511

Ion	Ratio	Lower	Upper
169	100		
168	67.0	54.1	81.1
167	37.4	30.3	45.5





#67
4-Bromophenyl-phenylether
Concen: 9.525 ng
RT: 16.422 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

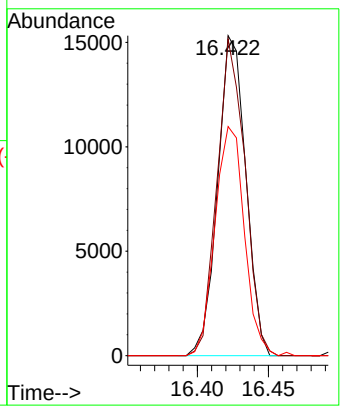
Tgt Ion:248 Resp: 2108

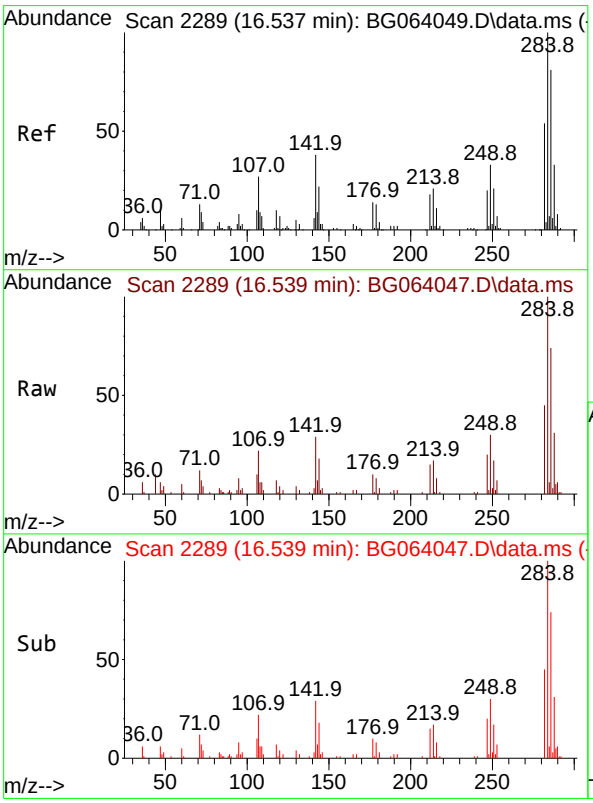
Ion	Ratio	Lower	Upper
248	100		
250	98.9	77.1	115.7
141	71.6	59.8	89.8

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

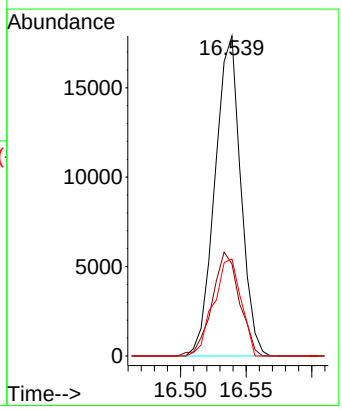


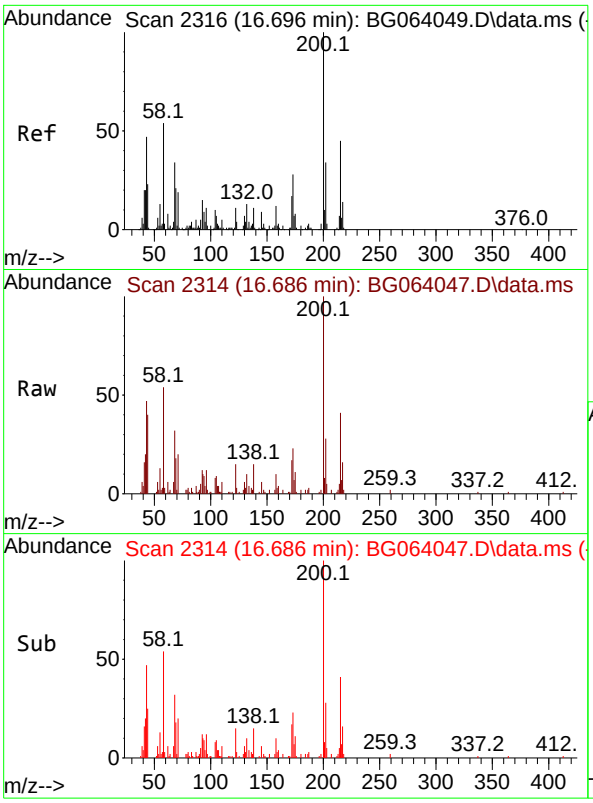


#68
Hexachlorobenzene
Concen: 9.848 ng
RT: 16.539 min Scan# 2289
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:284 Resp: 24406

Ion	Ratio	Lower	Upper
284	100		
142	28.7	30.6	45.8#
249	30.3	26.6	39.8

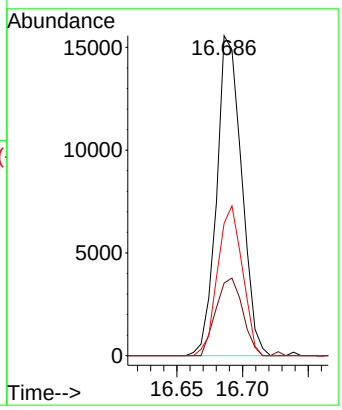




#69
Atrazine
Concen: 11.436 ng
RT: 16.686 min Scan# 2
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:200 Resp: 2058

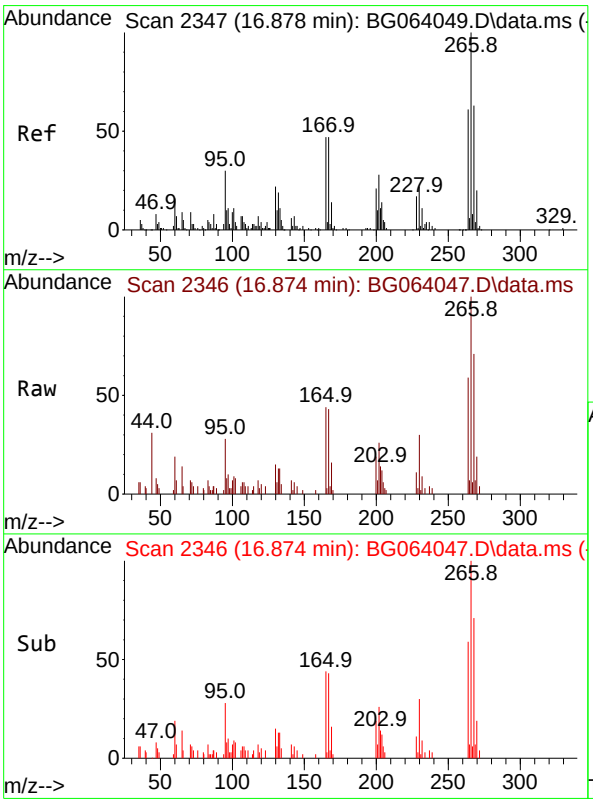
Ion	Ratio	Lower	Upper
200	100		
173	22.7	8.2	48.2
215	41.4	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

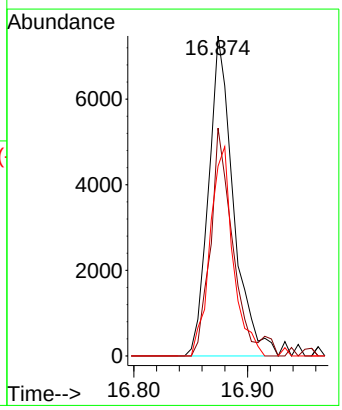
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

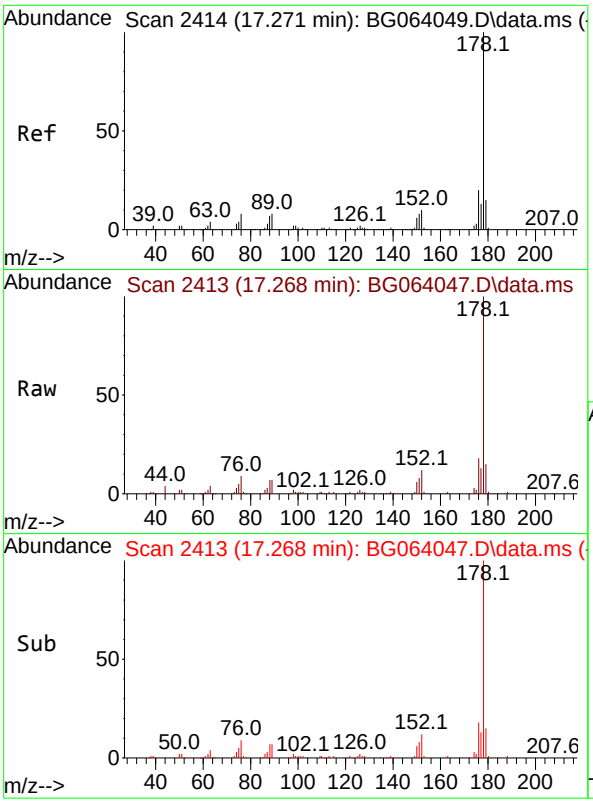


#70
Pentachlorophenol
Concen: 7.355 ng
RT: 16.874 min Scan# 2346
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:266 Resp: 11318

Ion	Ratio	Lower	Upper
266	100		
268	77.8	50.2	75.4#
264	66.2	48.9	73.3

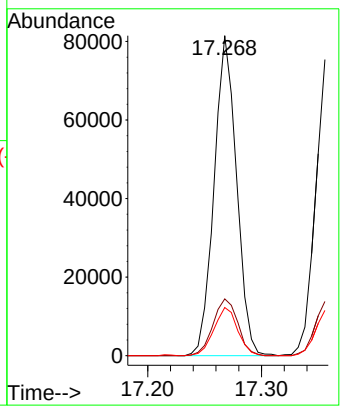




#71
Phenanthrene
Concen: 9.694 ng
RT: 17.268 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:178 Resp: 11175

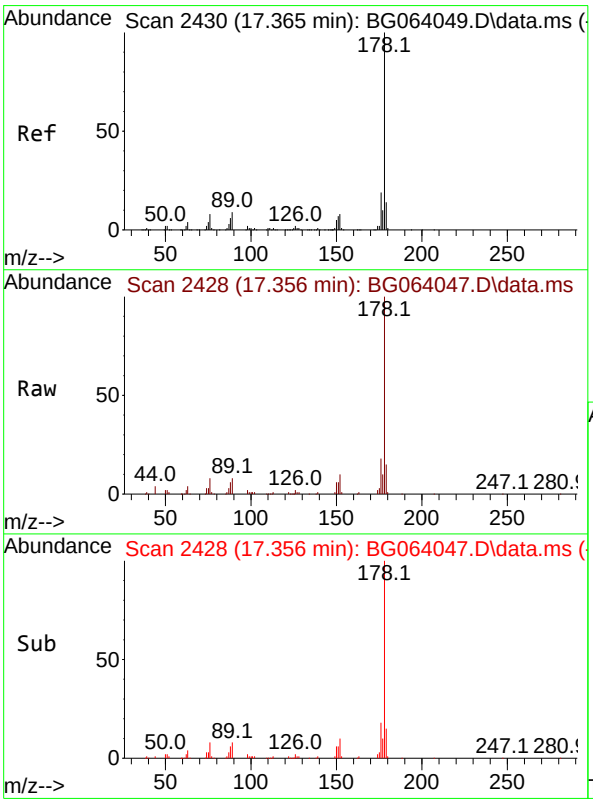
Ion	Ratio	Lower	Upper
178	100		
176	17.7	15.9	23.9
179	15.0	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

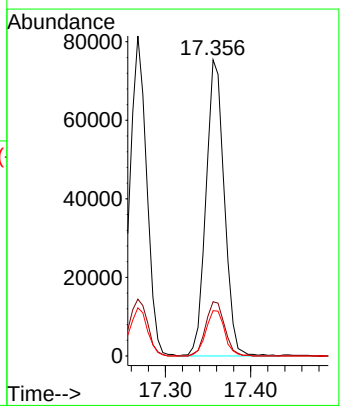
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

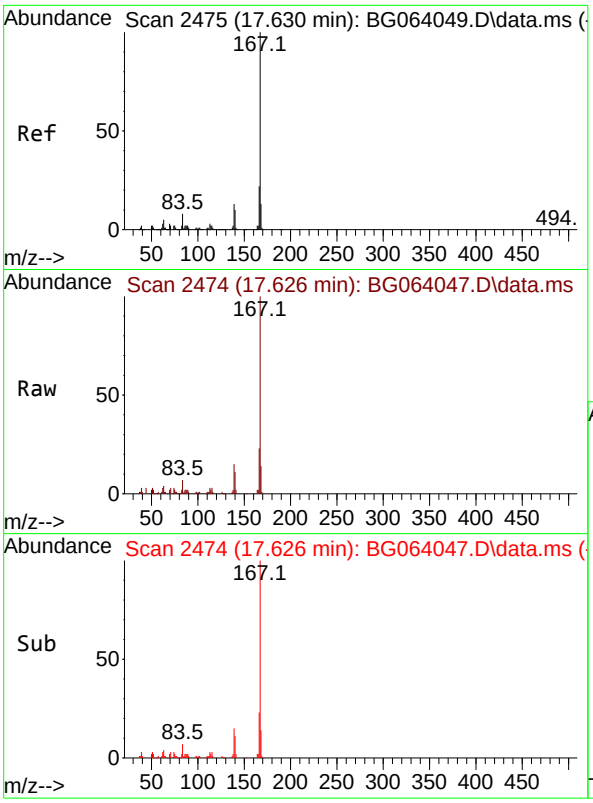


#72
Anthracene
Concen: 9.810 ng
RT: 17.356 min Scan# 2428
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:178 Resp: 112451

Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.8	22.2
179	15.3	11.5	17.3

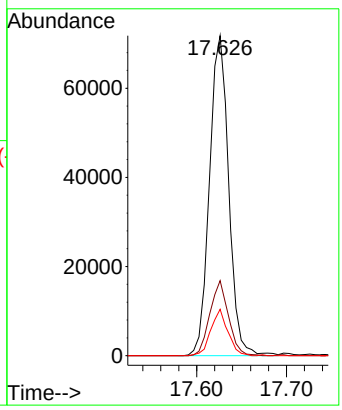




#73
Carbazole
Concen: 9.974 ng
RT: 17.626 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:167 Resp: 10675

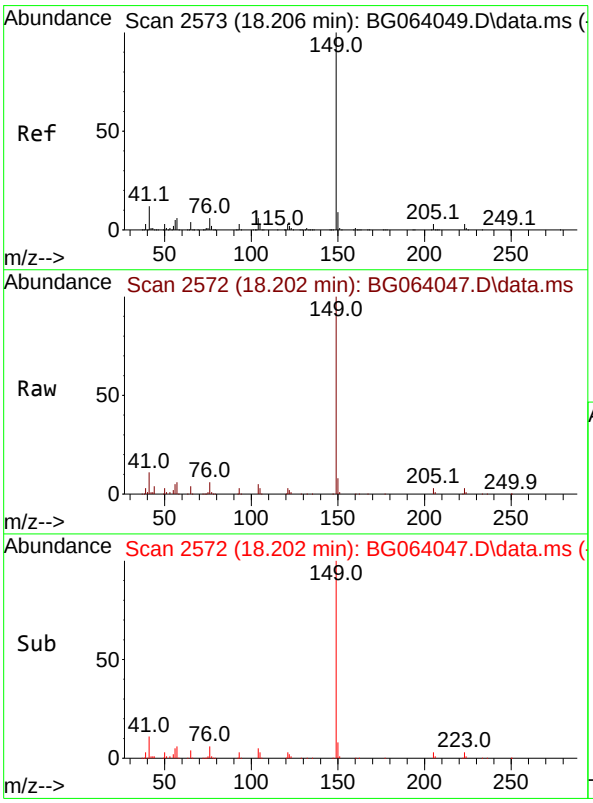
Ion	Ratio	Lower	Upper
167	100		
166	23.5	18.0	27.0
139	14.5	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

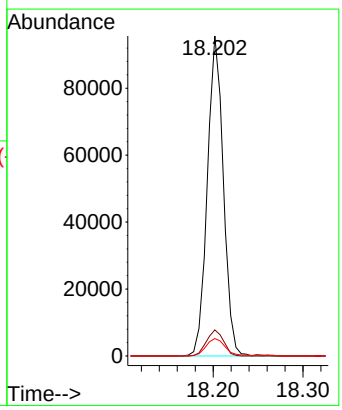
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

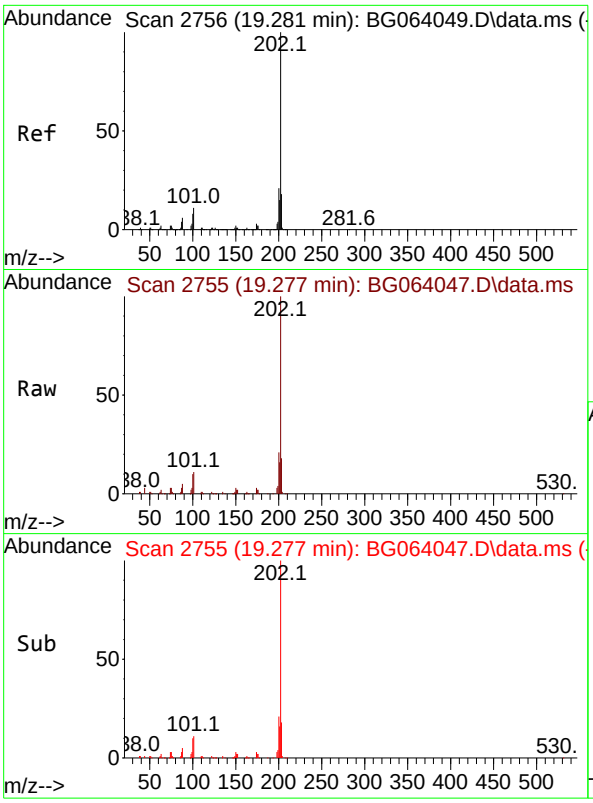


#74
Di-n-butylphthalate
Concen: 9.396 ng
RT: 18.202 min Scan# 2572
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 118366

Ion	Ratio	Lower	Upper
149	100		
150	8.2	7.4	11.0
104	5.5	5.0	7.6

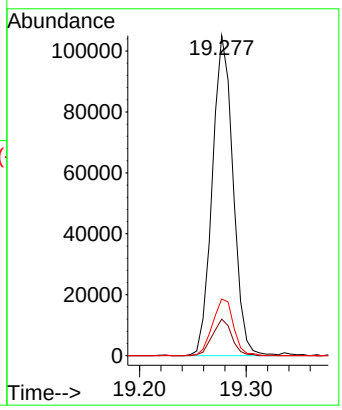




#75
Fluoranthene
Concen: 10.224 ng
RT: 19.277 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:202 Resp: 14209

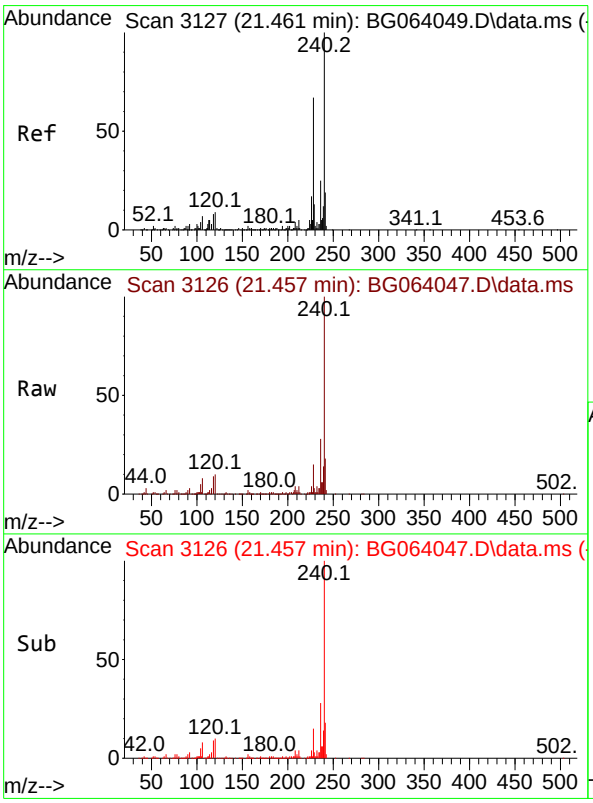
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	30.5
203	17.7	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

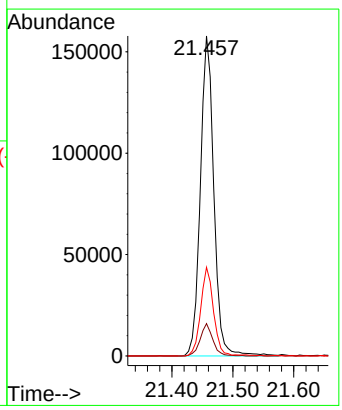
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

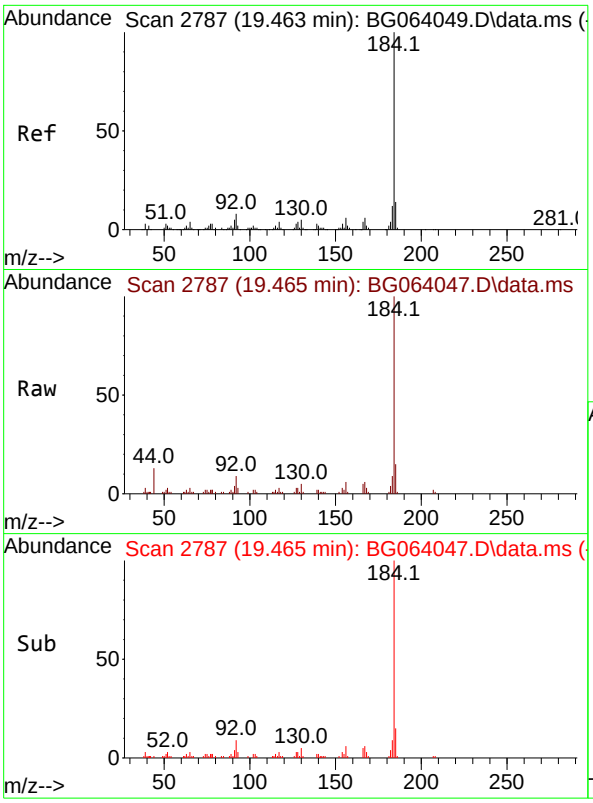


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:240 Resp: 243131

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.2	10.8
236	27.7	20.2	30.2

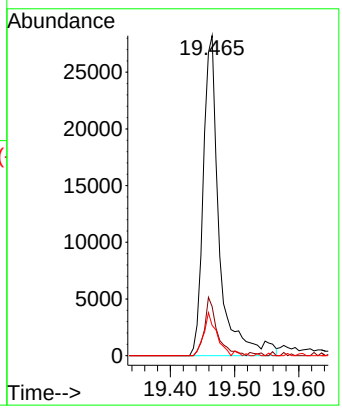




#77
Benzidine
Concen: 14.253 ng m
RT: 19.465 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:184 Resp: 4864

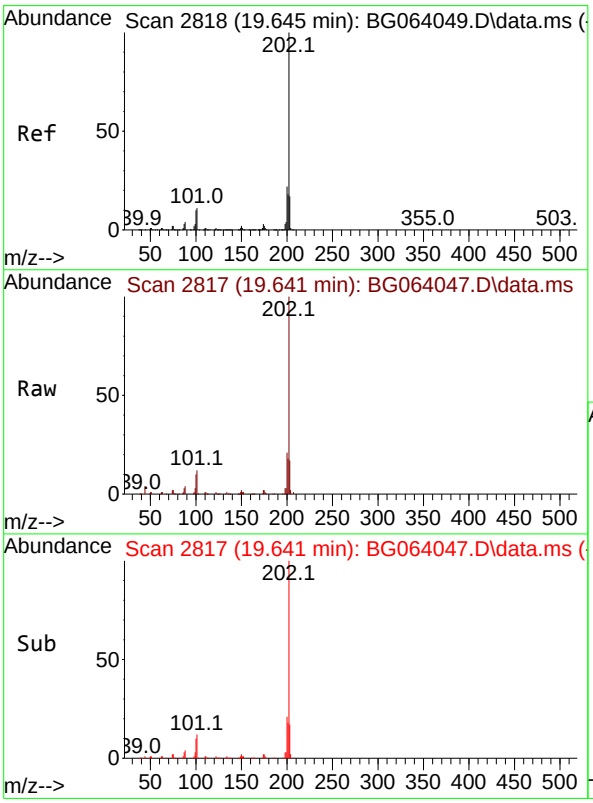
Ion	Ratio	Lower	Upper
184	100		
185	15.4	11.3	16.9
183	9.5	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

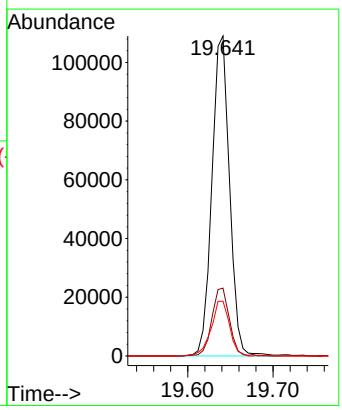
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

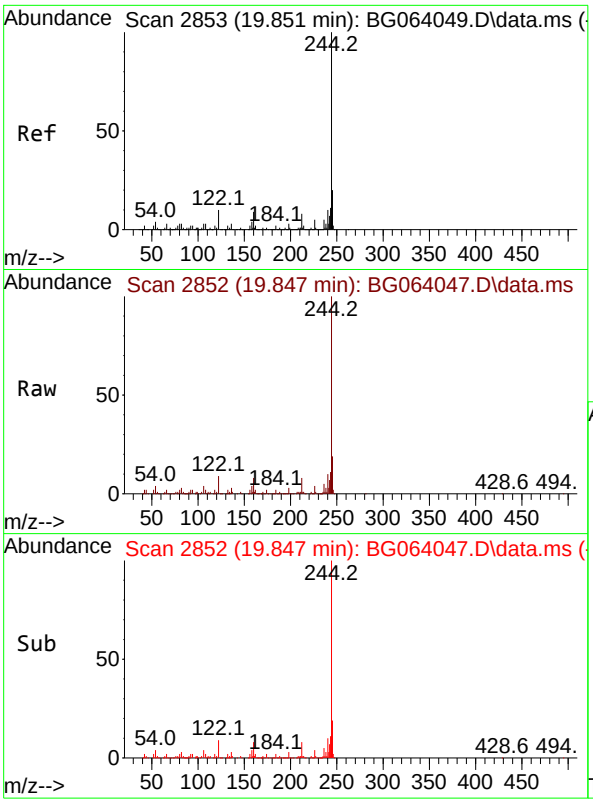


#78
Pyrene
Concen: 9.980 ng
RT: 19.641 min Scan# 2817
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:202 Resp: 156414

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9
203	17.1	13.6	20.4

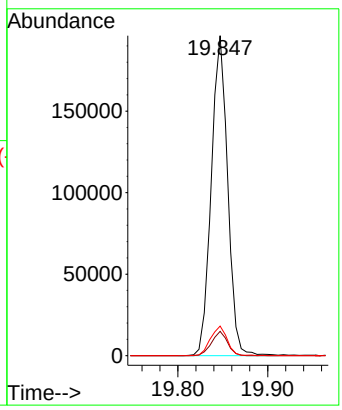




#79
Terphenyl-d14
Concen: 20.697 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:244 Resp: 24886

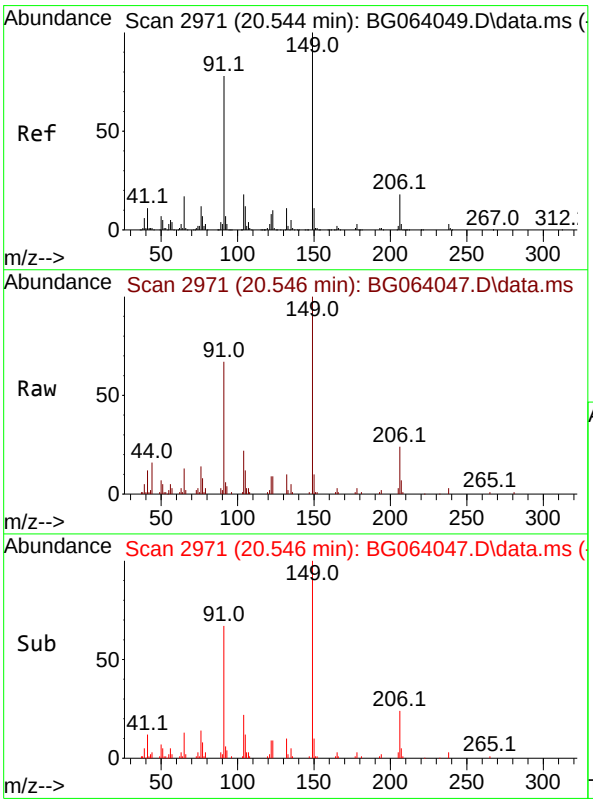
Ion	Ratio	Lower	Upper
244	100		
212	7.6	6.2	9.4
122	9.2	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

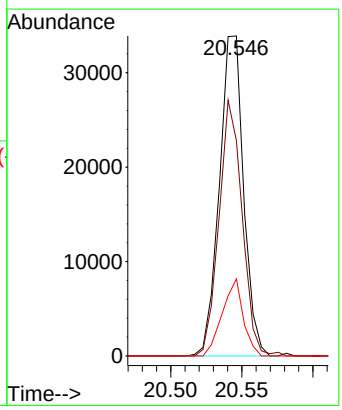
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

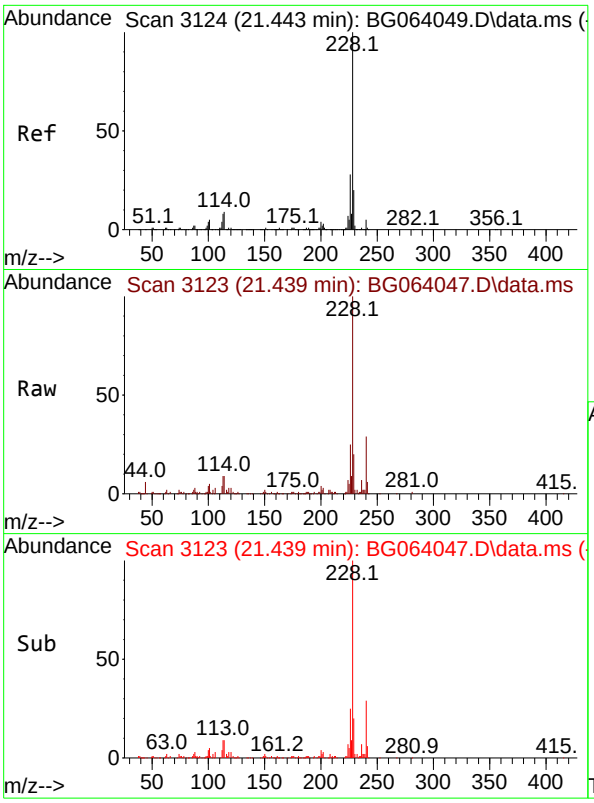


#80
Butylbenzylphthalate
Concen: 9.952 ng
RT: 20.546 min Scan# 2971
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 40179

Ion	Ratio	Lower	Upper
149	100		
91	67.2	62.0	93.0
206	24.1	14.6	21.8#

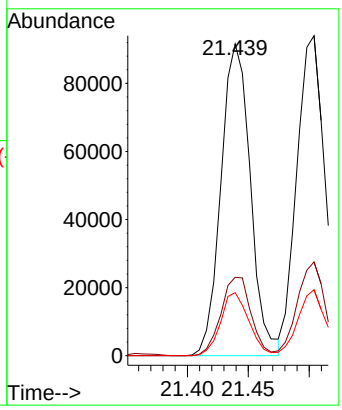




#81
Benzo(a)anthracene
Concen: 9.895 ng
RT: 21.439 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:228 Resp: 15411

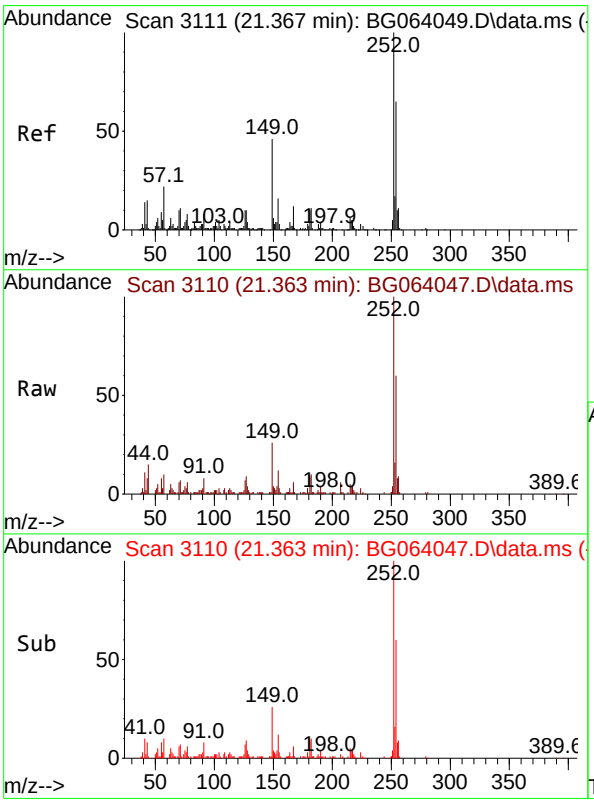
Ion	Ratio	Lower	Upper
228	100		
226	25.1	22.2	33.2
229	20.2	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

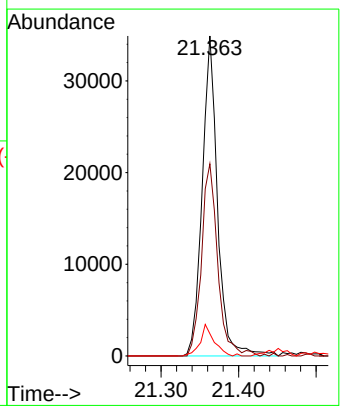
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

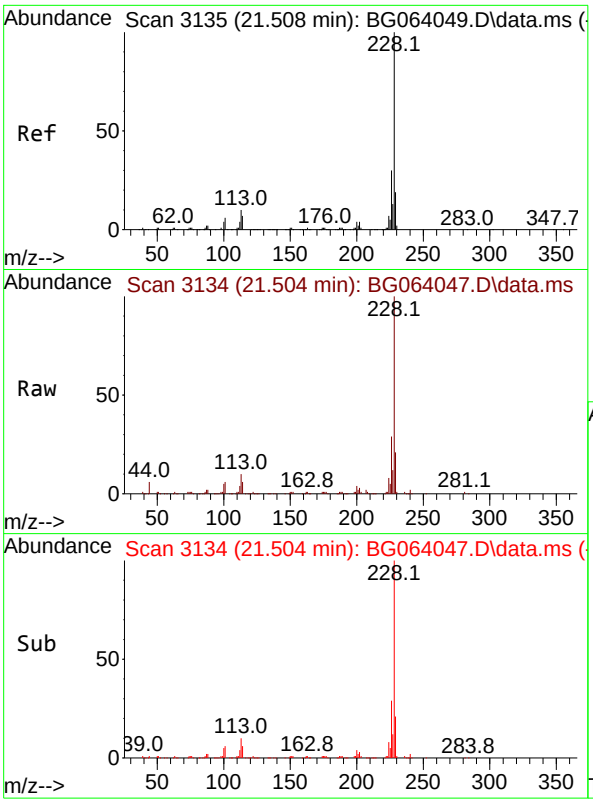


#82
3,3'-Dichlorobenzidine
Concen: 9.539 ng
RT: 21.363 min Scan# 3110
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:252 Resp: 48080

Ion	Ratio	Lower	Upper
252	100		
254	60.1	52.1	78.1
126	7.0	7.8	11.8#

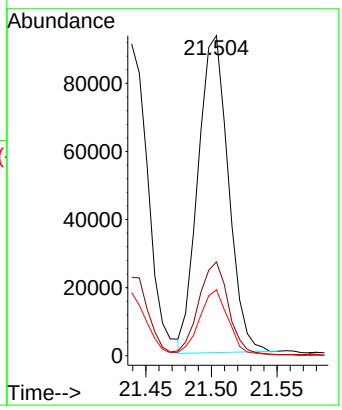




#83
Chrysene
Concen: 9.649 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:228 Resp: 14988

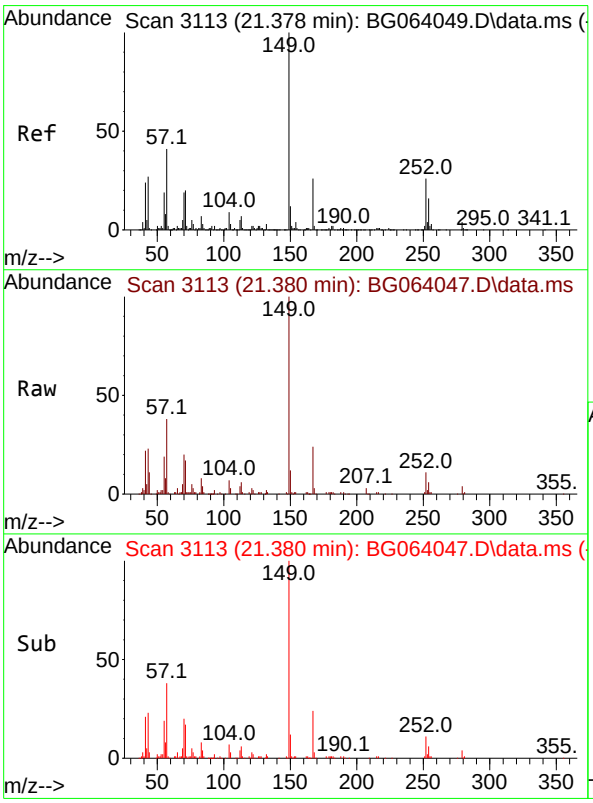
Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.9	35.9
229	20.6	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

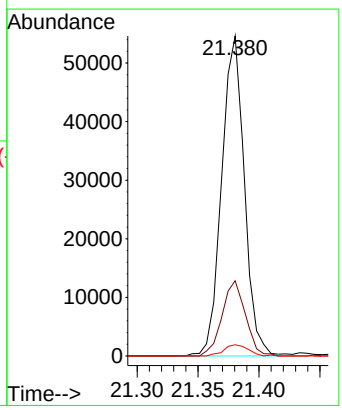
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

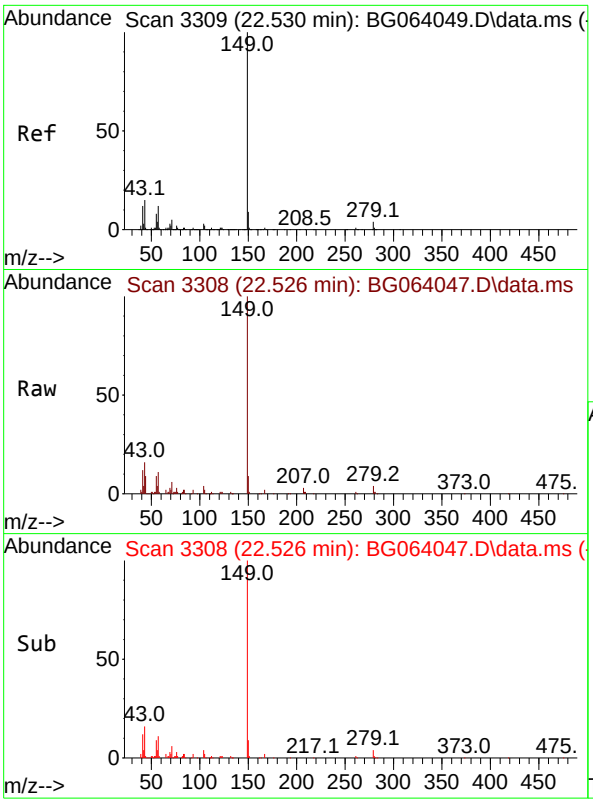


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.403 ng
RT: 21.380 min Scan# 3113
Delta R.T. 0.002 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 70780

Ion	Ratio	Lower	Upper
149	100		
167	23.5	21.0	31.6
279	3.5	2.8	4.2

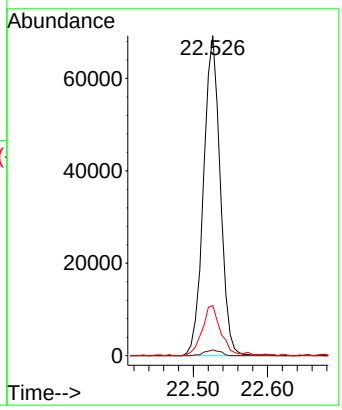




#85
Di-n-octyl phthalate
Concen: 7.461 ng
RT: 22.526 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:149 Resp: 10838

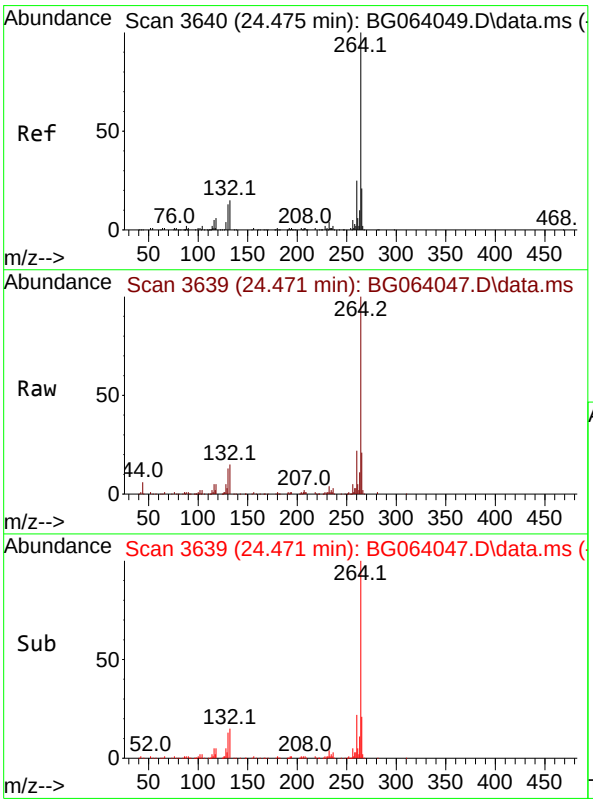
Ion	Ratio	Lower	Upper
149	100		
167	1.8	1.2	1.8
43	17.2	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

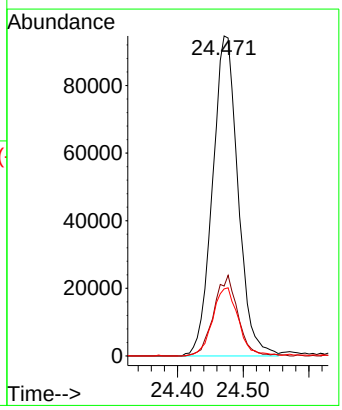
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

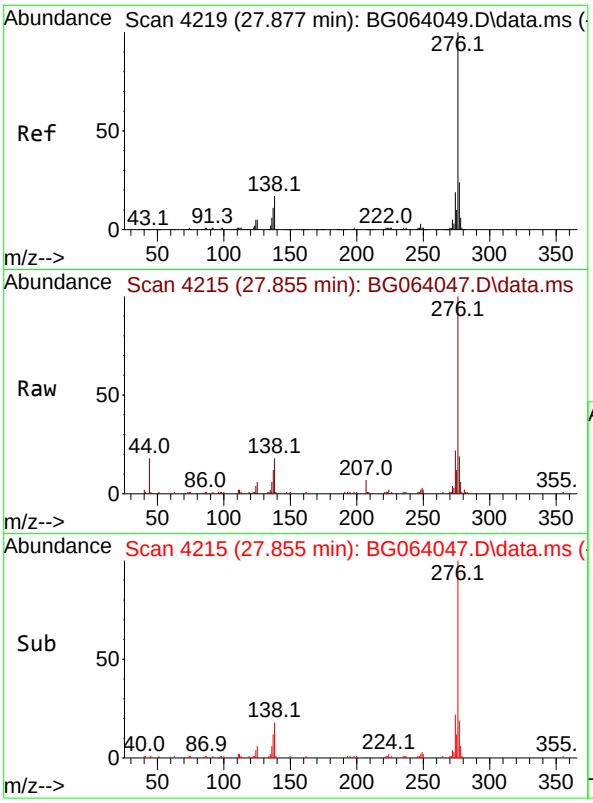


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.471 min Scan# 3639
Delta R.T. -0.004 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:264 Resp: 255316

Ion	Ratio	Lower	Upper
264	100		
260	21.8	19.6	29.4
265	21.0	16.6	25.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.203 ng
RT: 27.855 min Scan# 4
Delta R.T. -0.021 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

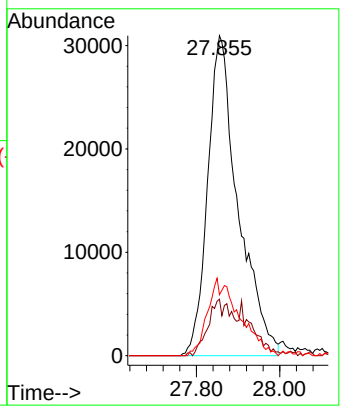
Tgt Ion:276 Resp: 15721

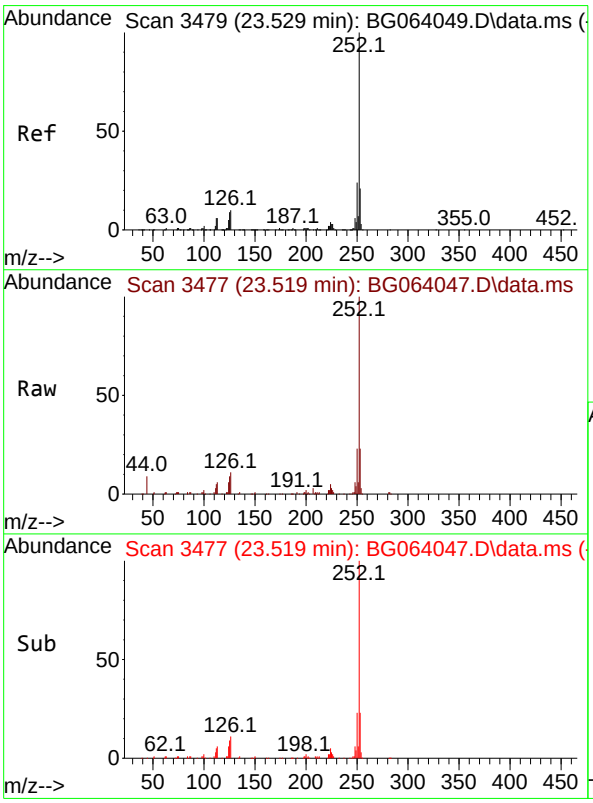
Ion	Ratio	Lower	Upper
276	100		
138	8.2	12.1	18.1#
277	10.0	20.0	30.0#

Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

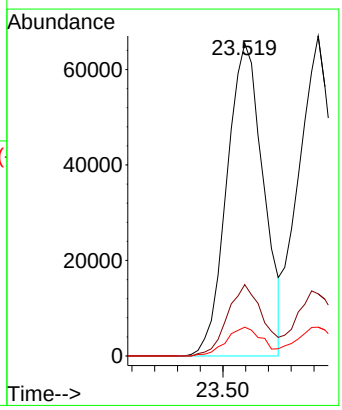


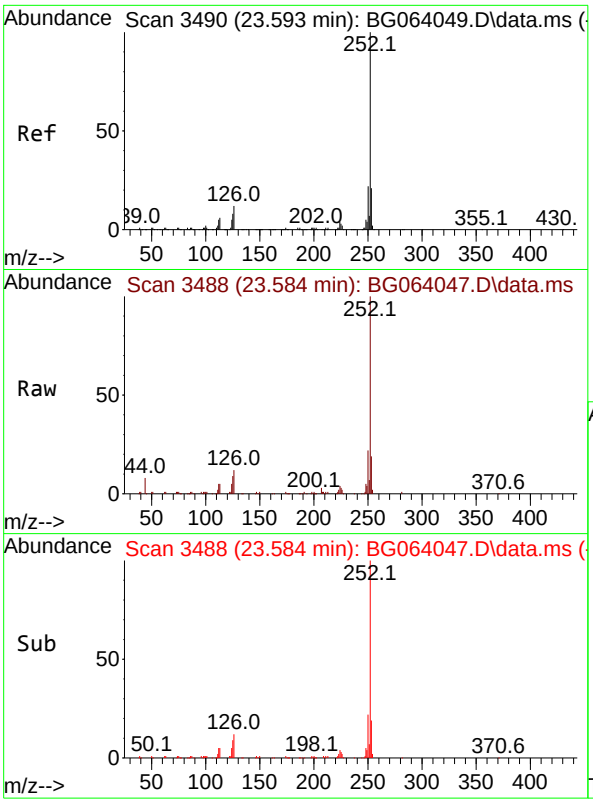


#88
Benzo(b)fluoranthene
Concen: 9.475 ng
RT: 23.519 min Scan# 3477
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:252 Resp: 146238

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.0	25.4
125	9.2	7.4	11.2

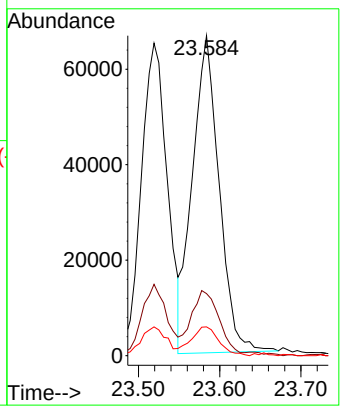




#89
Benzo(k)fluoranthene
Concen: 9.805 ng
RT: 23.584 min Scan# 34
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:252 Resp: 15182

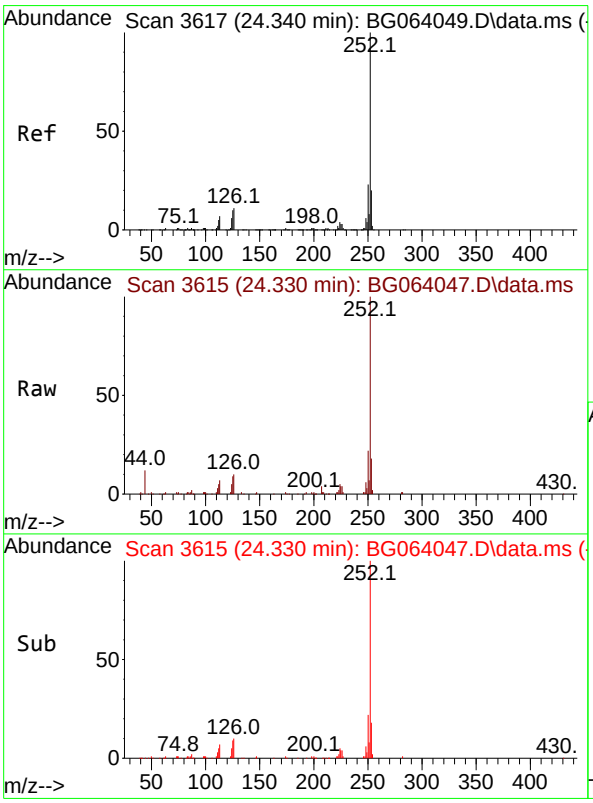
Ion	Ratio	Lower	Upper
252	100		
253	19.4	16.8	25.2
125	9.0	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

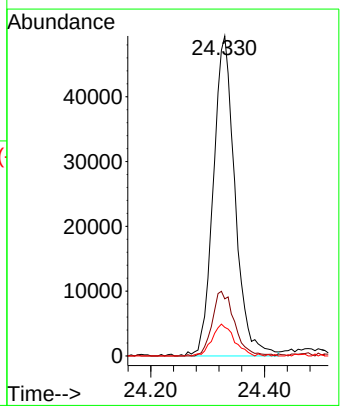
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

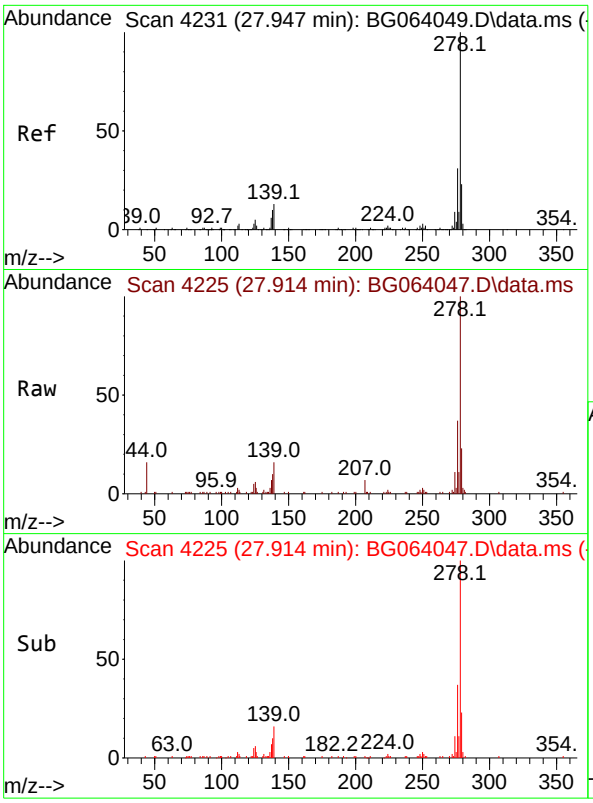


#90
Benzo(a)pyrene
Concen: 9.496 ng
RT: 24.330 min Scan# 3615
Delta R.T. -0.010 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:252 Resp: 130528

Ion	Ratio	Lower	Upper
252	100		
253	17.8	16.2	24.2
125	9.0	7.8	11.6

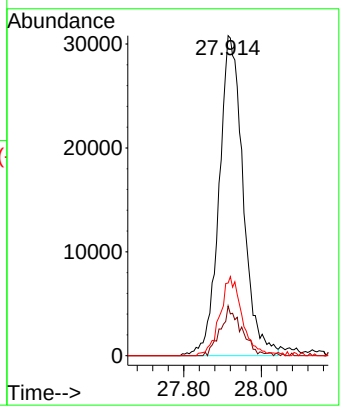




#91
Dibenzo(a,h)anthracene
Concen: 9.340 ng
RT: 27.914 min Scan# 4
Delta R.T. -0.033 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:278 Resp: 13227

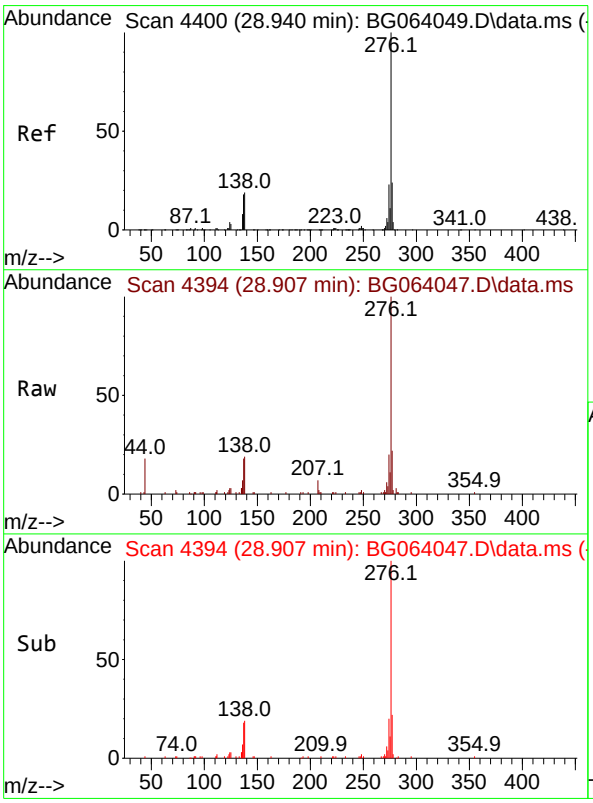
Ion	Ratio	Lower	Upper
278	100		
139	15.6	10.2	15.2
279	22.7	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

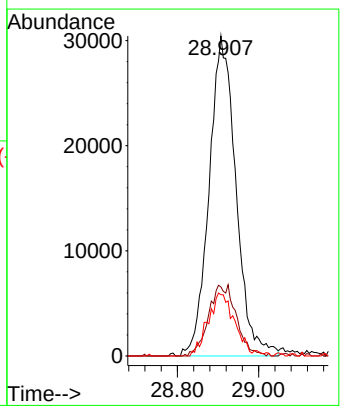
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 9.596 ng
RT: 28.907 min Scan# 4394
Delta R.T. -0.033 min
Lab File: BG064047.D
Acq: 5 Mar 2025 10:22

Tgt Ion:276 Resp: 139536

Ion	Ratio	Lower	Upper
276	100		
277	21.6	19.5	29.3
138	19.1	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064048.D
Acq On : 5 Mar 2025 11:03
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 05 15:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.867	152	32618	20.000	ng		0.00
21) Naphthalene-d8	10.652	136	145081	20.000	ng		0.00
39) Acenaphthene-d10	14.489	164	102335	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	239469	20.000	ng		0.00
76) Chrysene-d12	21.463	240	245725	20.000	ng		0.00
86) Perylene-d12	24.471	264	254102	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.446	112	86747	41.526	ng		0.00
7) Phenol-d6	7.027	99	117028	41.181	ng		0.00
23) Nitrobenzene-d5	9.013	82	104347	39.746	ng		0.00
42) 2,4,6-Tribromophenol	15.969	330	46324	40.723	ng		0.00
45) 2-Fluorobiphenyl	13.114	172	278220	41.267	ng		0.00
79) Terphenyl-d14	19.847	244	521784	42.936	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.372	88	20346	21.491	ng		94
3) Pyridine	3.760	79	47376	20.577	ng		90
4) n-Nitrosodimethylamine	3.678	42	33180	20.170	ng	#	98
6) Aniline	7.191	93	59532	21.349	ng		98
8) 2-Chlorophenol	7.432	128	46053	20.527	ng		91
9) Benzaldehyde	7.003	77	36954m	22.246	ng		
10) Phenol	7.050	94	59566	20.473	ng		96
11) bis(2-Chloroethyl)ether	7.291	93	46439	20.359	ng		96
12) 1,3-Dichlorobenzene	7.755	146	48956	19.871	ng		98
13) 1,4-Dichlorobenzene	7.902	146	52419	20.757	ng		97
14) 1,2-Dichlorobenzene	8.214	146	50317	20.663	ng		98
15) Benzyl Alcohol	8.096	79	43802	19.946	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.390	45	104660	20.405	ng		98
17) 2-Methylphenol	8.302	107	38395	19.883	ng	#	90
18) Hexachloroethane	8.948	117	16959	19.194	ng		99
19) n-Nitroso-di-n-propyla...	8.666	70	41803	20.960	ng		94
20) 3+4-Methylphenols	8.625	107	53440	20.102	ng		93
22) Acetophenone	8.678	105	84092	21.140	ng		94
24) Nitrobenzene	9.060	77	56511	20.828	ng	#	97
25) Isophorone	9.577	82	107881	20.530	ng		98
26) 2-Nitrophenol	9.765	139	13886	18.663	ng		96
27) 2,4-Dimethylphenol	9.824	122	32013	20.322	ng		95
28) bis(2-Chloroethoxy)met...	10.064	93	67945	21.327	ng		97
29) 2,4-Dichlorophenol	10.294	162	40728	20.475	ng		96
30) 1,2,4-Trichlorobenzene	10.517	180	49701	20.698	ng		96
31) Naphthalene	10.705	128	161582	20.654	ng		100
32) Benzoic acid	9.929	122	20223m	20.131	ng		
33) 4-Chloroaniline	10.805	127	59095	20.668	ng		98
34) Hexachlorobutadiene	10.999	225	32675	20.760	ng		96
35) Caprolactam	11.557	113	16251	21.319	ng		97
36) 4-Chloro-3-methylphenol	11.927	107	55024	21.103	ng		94
37) 2-Methylnaphthalene	12.309	142	114303	20.696	ng		94
38) 1-Methylnaphthalene	12.532	142	111828	20.668	ng		95
40) 1,2,4,5-Tetrachloroben...	12.679	216	60556	20.727	ng		98
41) Hexachlorocyclopentadiene	12.667	237	16470	20.029	ng		90
43) 2,4,6-Trichlorophenol	12.914	196	34893	20.264	ng		93

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064048.D
Acq On : 5 Mar 2025 11:03
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.985	196	38995	20.381	ng		95
46) 1,1'-Biphenyl	13.325	154	160835	20.803	ng		97
47) 2-Chloronaphthalene	13.361	162	112611	19.971	ng		99
48) 2-Nitroaniline	13.560	65	28373	18.684	ng		98
49) Acenaphthylene	14.207	152	183469	20.571	ng		99
50) Dimethylphthalate	13.948	163	159500	21.114	ng		100
51) 2,6-Dinitrotoluene	14.054	165	26787	19.614	ng		92
52) Acenaphthene	14.553	154	125939m	20.997	ng		
53) 3-Nitroaniline	14.383	138	30517	20.902	ng		88
54) 2,4-Dinitrophenol	14.594	184	8560	19.958	ng	#	74
55) Dibenzofuran	14.888	168	202235	20.856	ng		96
56) 4-Nitrophenol	14.683	139	20425	16.681	ng		87
57) 2,4-Dinitrotoluene	14.841	165	35172	19.015	ng	#	97
58) Fluorene	15.534	166	157795	20.894	ng		97
59) 2,3,4,6-Tetrachlorophenol	15.111	232	39748	21.310	ng		99
60) Diethylphthalate	15.311	149	174872	21.324	ng		98
61) 4-Chlorophenyl-phenyle...	15.534	204	80605	21.477	ng		95
62) 4-Nitroaniline	15.540	138	32000	20.301	ng		88
63) Azobenzene	15.822	77	182618	20.868	ng		98
65) 4,6-Dinitro-2-methylph...	15.599	198	14079	19.469	ng		95
66) n-Nitrosodiphenylamine	15.740	169	139451	20.573	ng		100
67) 4-Bromophenyl-phenylether	16.422	248	50868	20.740	ng		99
68) Hexachlorobenzene	16.539	284	56538	20.591	ng		95
69) Atrazine	16.692	200	42810	21.465	ng		97
70) Pentachlorophenol	16.874	266	30561	17.926	ng	#	88
71) Phenanthrene	17.268	178	265841	20.813	ng		99
72) Anthracene	17.362	178	264350	20.814	ng		99
73) Carbazole	17.626	167	244169	20.591	ng		100
74) Di-n-butylphthalate	18.202	149	290500	20.812	ng		100
75) Fluoranthene	19.277	202	319913	20.776	ng		98
77) Benzidine	19.459	184	58504	16.960	ng		99
78) Pyrene	19.641	202	331849	20.950	ng		99
80) Butylbenzylphthalate	20.546	149	99429	19.098	ng		98
81) Benzo(a)anthracene	21.439	228	321777	20.443	ng		98
82) 3,3'-Dichlorobenzidine	21.363	252	109121	21.421	ng		98
83) Chrysene	21.504	228	321379	20.471	ng		98
84) Bis(2-ethylhexyl)phtha...	21.381	149	168286	19.769	ng		98
85) Di-n-octyl phthalate	22.526	149	272257	18.542	ng		99
87) Indeno(1,2,3-cd)pyrene	27.867	276	357779	21.044	ng		98
88) Benzo(b)fluoranthene	23.525	252	322554	20.998	ng		98
89) Benzo(k)fluoranthene	23.590	252	325538	21.124	ng		99
90) Benzo(a)pyrene	24.330	252	285622	20.878	ng		97
91) Dibenzo(a,h)anthracene	27.932	278	292558	20.756	ng		99
92) Benzo(g,h,i)perylene	28.931	276	307072	21.219	ng		97

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

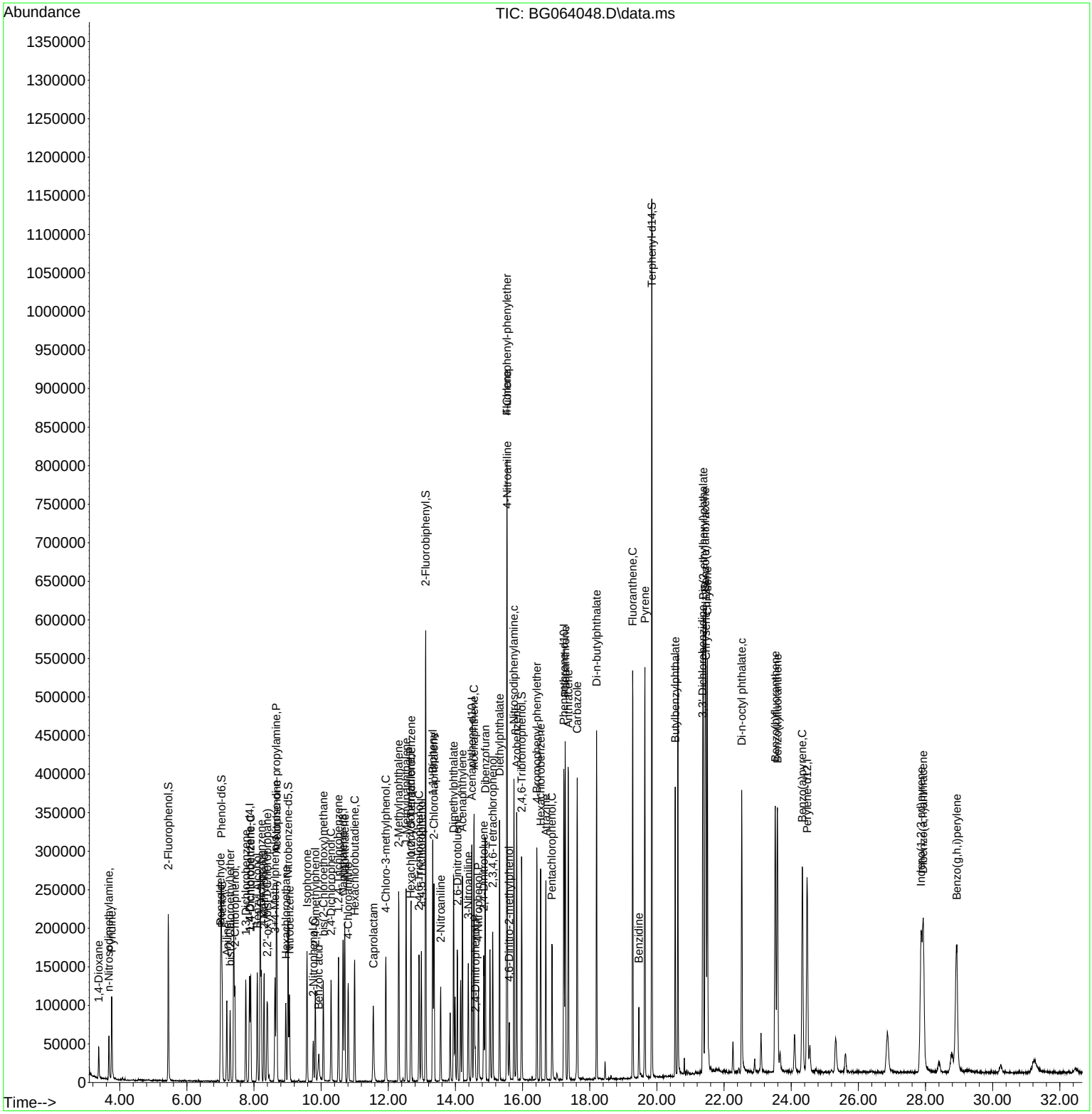
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064048.D
Acq On : 5 Mar 2025 11:03
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

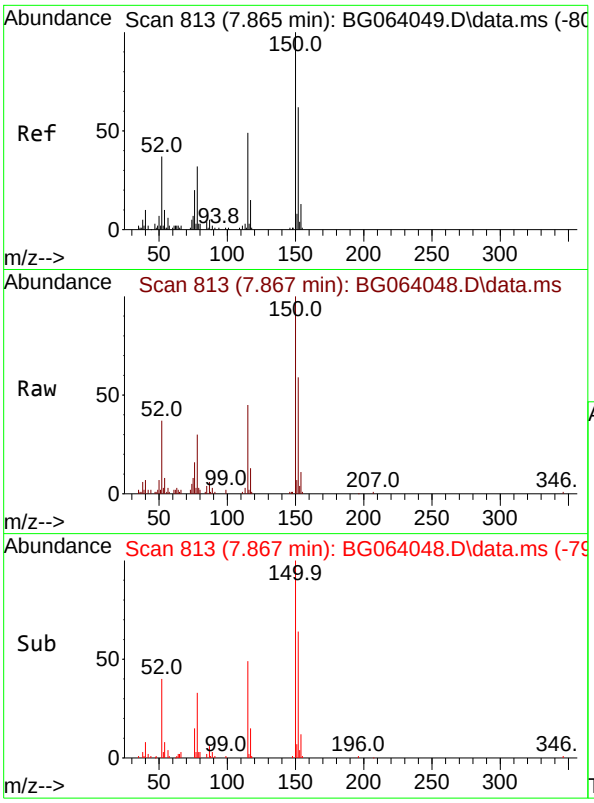
Quant Time: Mar 05 15:22:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

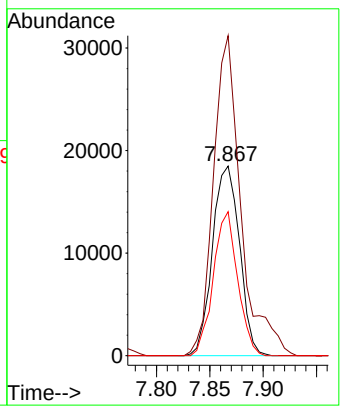




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.867 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:152 Resp: 3261

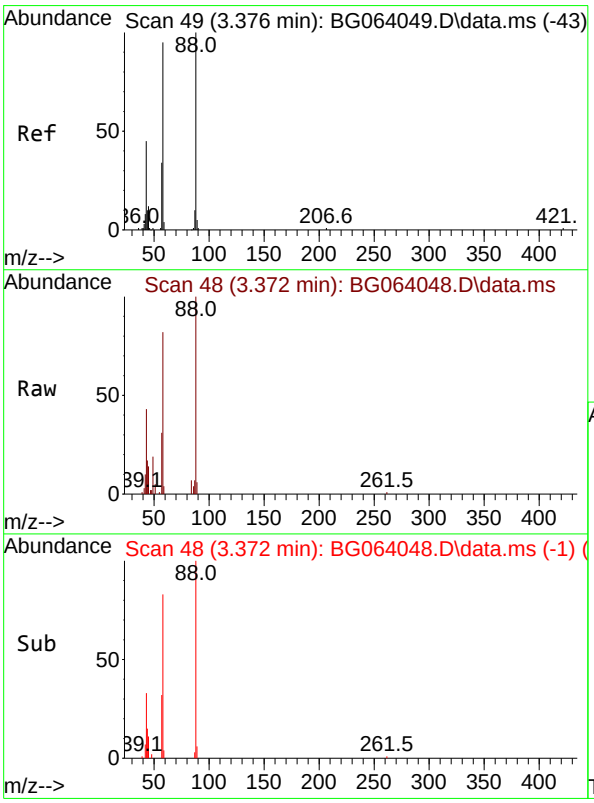
Ion	Ratio	Lower	Upper
152	100		
150	168.8	129.2	193.8
115	76.0	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

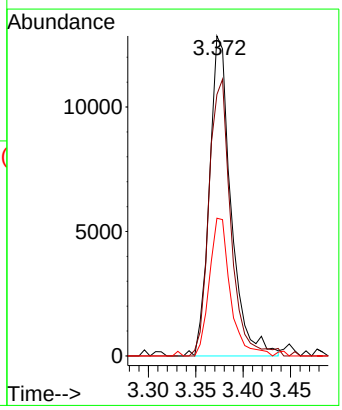
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

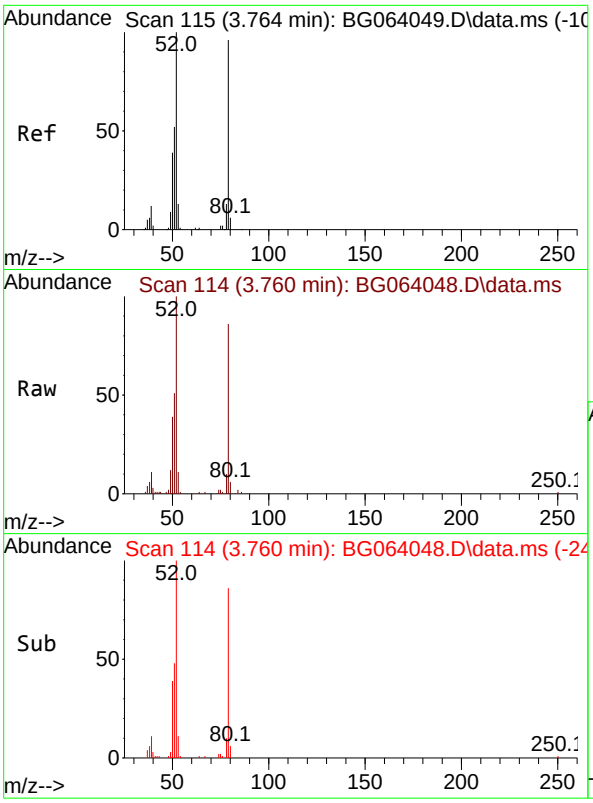


#2
1,4-Dioxane
Concen: 21.491 ng
RT: 3.372 min Scan# 48
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 88 Resp: 20346

Ion	Ratio	Lower	Upper
88	100		
58	87.3	74.6	111.8
43	41.6	35.5	53.3

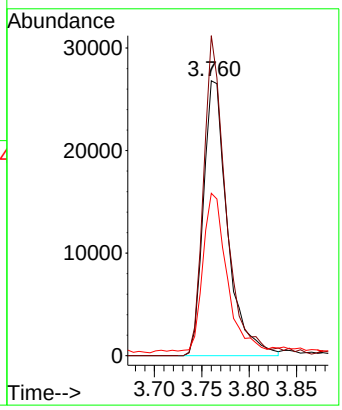




#3
Pyridine
Concen: 20.577 ng
RT: 3.760 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 79 Resp: 4737

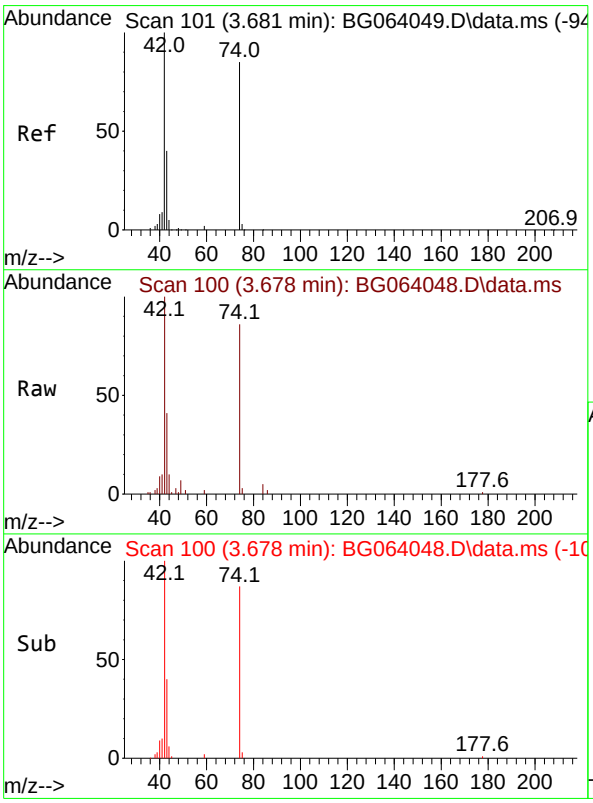
Ion	Ratio	Lower	Upper
79	100		
52	116.4	83.0	124.6
51	59.1	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

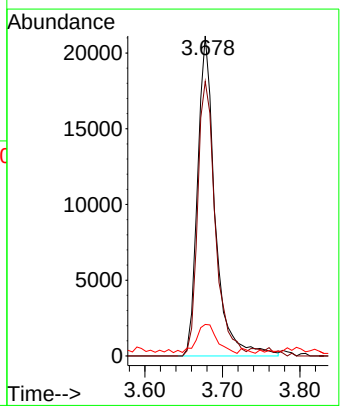
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

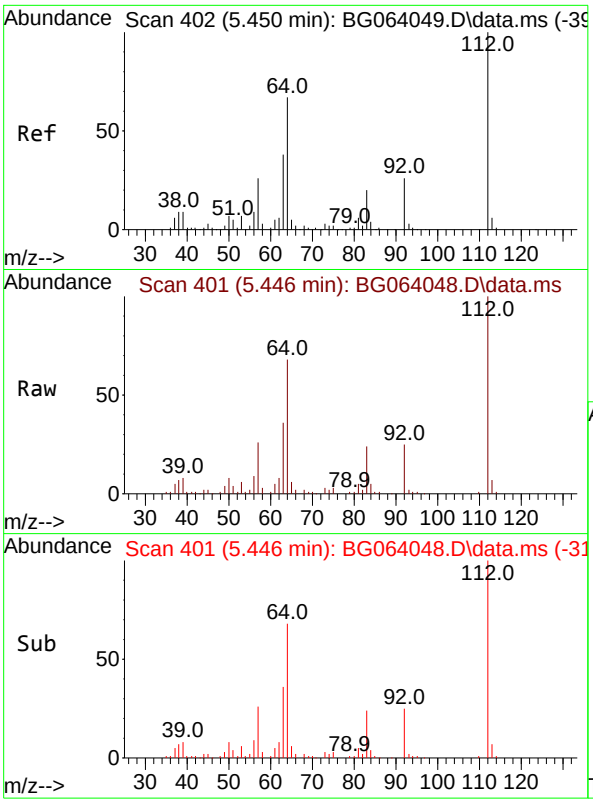


#4
n-Nitrosodimethylamine
Concen: 20.170 ng
RT: 3.678 min Scan# 100
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 42 Resp: 33180

Ion	Ratio	Lower	Upper
42	100		
74	85.8	68.0	102.0
44	9.9	4.9	7.3#

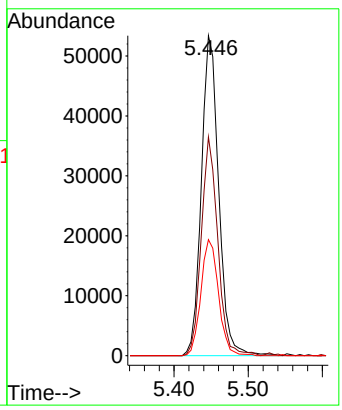




#5
2-Fluorophenol
Concen: 41.526 ng
RT: 5.446 min Scan# 4(
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:112 Resp: 8674

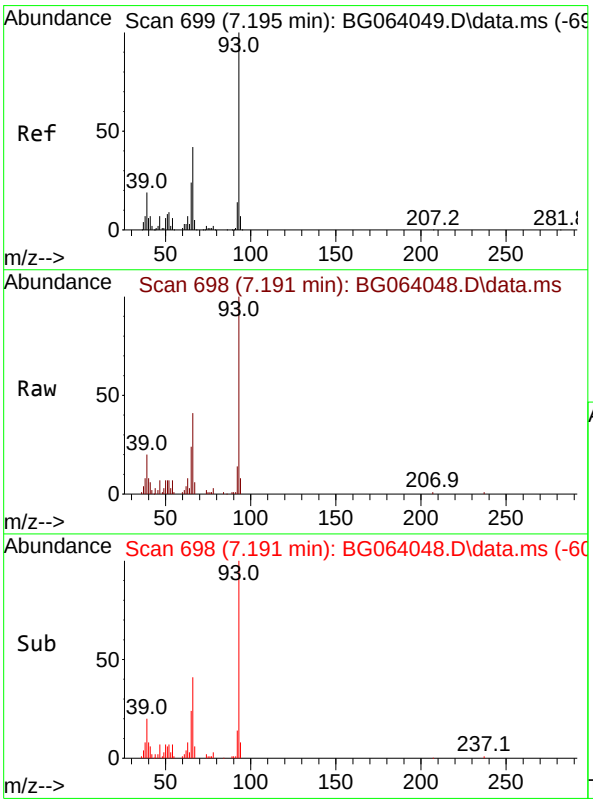
Ion	Ratio	Lower	Upper
112	100		
64	68.3	53.7	80.5
63	36.3	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

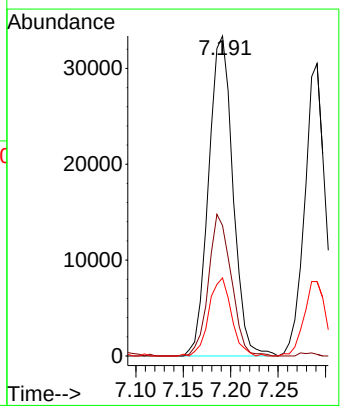
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

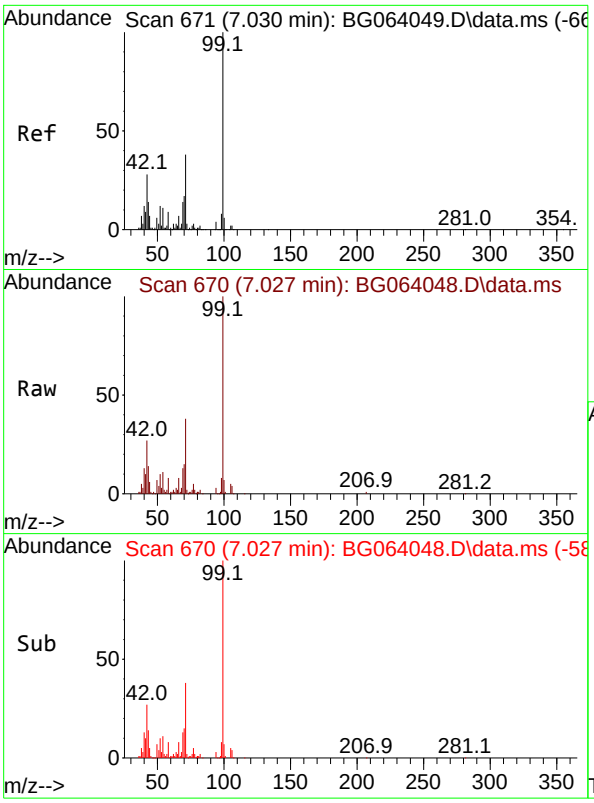


#6
Aniline
Concen: 21.349 ng
RT: 7.191 min Scan# 698
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 93 Resp: 59532

Ion	Ratio	Lower	Upper
93	100		
66	40.7	33.7	50.5
65	24.4	19.1	28.7

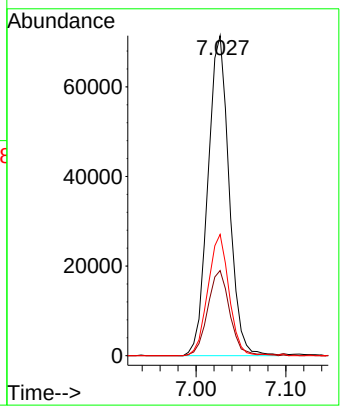




#7
Phenol-d6
Concen: 41.181 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 99 Resp: 11702

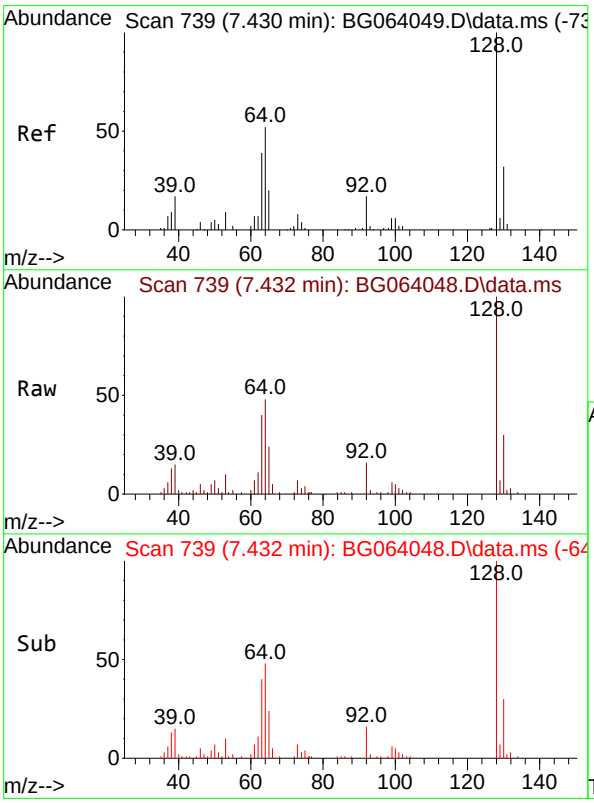
Ion	Ratio	Lower	Upper
99	100		
42	26.6	22.7	34.1
71	37.9	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

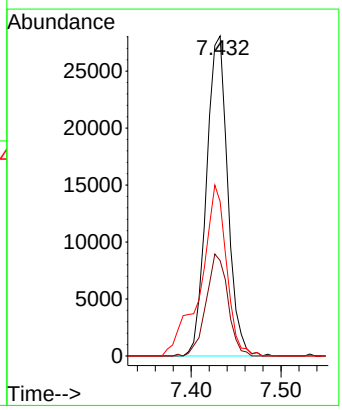
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

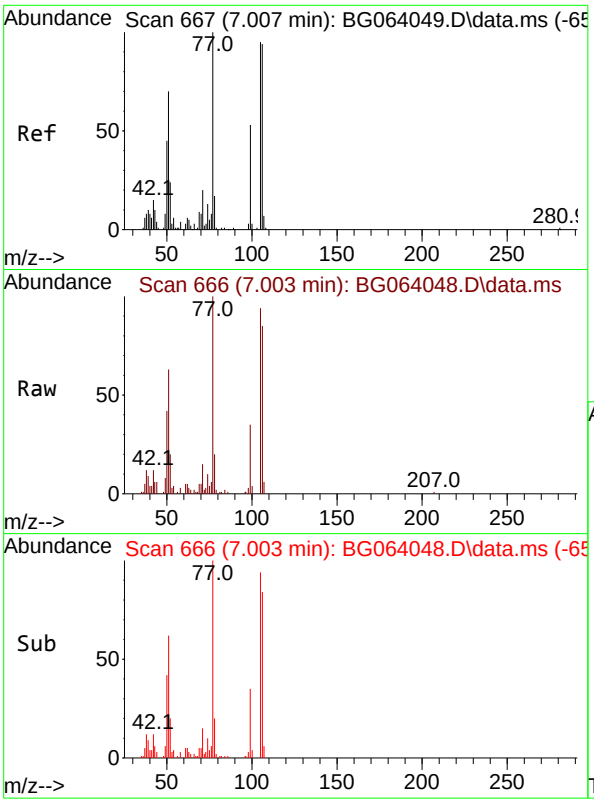


#8
2-Chlorophenol
Concen: 20.527 ng
RT: 7.432 min Scan# 739
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:128 Resp: 46053

Ion	Ratio	Lower	Upper
128	100		
130	29.8	12.3	52.3
64	48.3	37.0	77.0

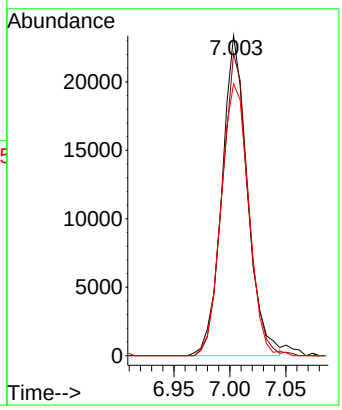




#9
Benzaldehyde
Concen: 22.246 ng m
RT: 7.003 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 77 Resp: 3695

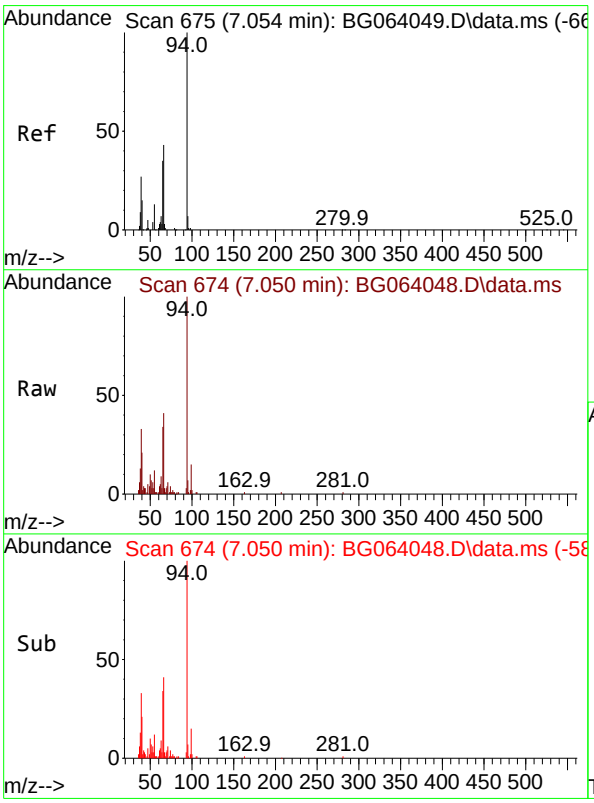
Ion	Ratio	Lower	Upper
77	100		
105	94.5	75.5	115.5
106	84.9	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

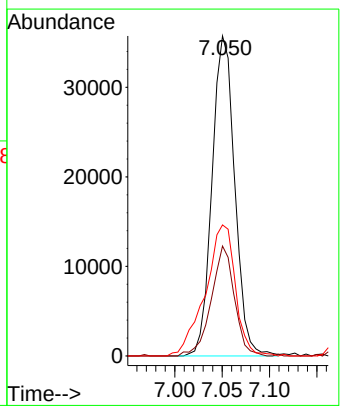
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

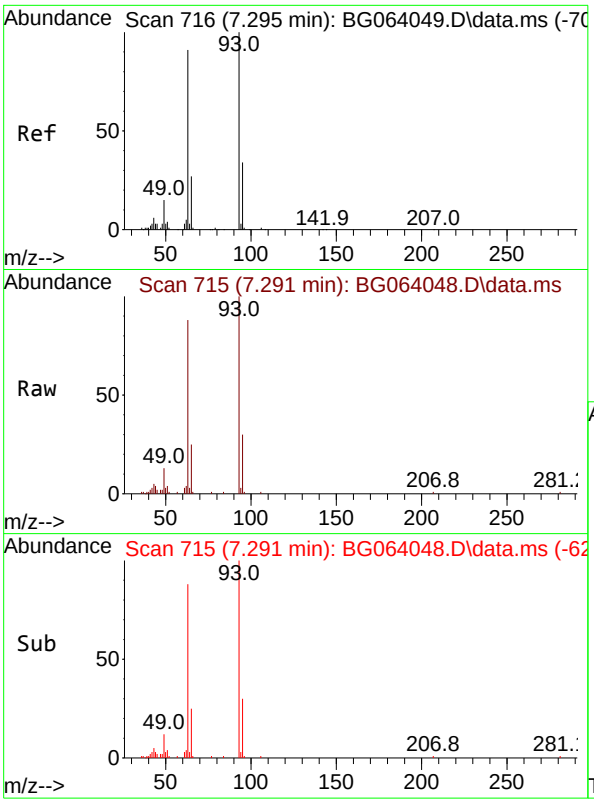


#10
Phenol
Concen: 20.473 ng
RT: 7.050 min Scan# 674
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 94 Resp: 59566

Ion	Ratio	Lower	Upper
94	100		
65	34.3	15.2	55.2
66	41.0	25.1	65.1

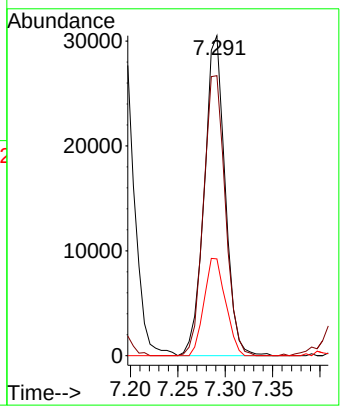




#11
bis(2-Chloroethyl)ether
Concen: 20.359 ng
RT: 7.291 min Scan# 7
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 93 Resp: 4643

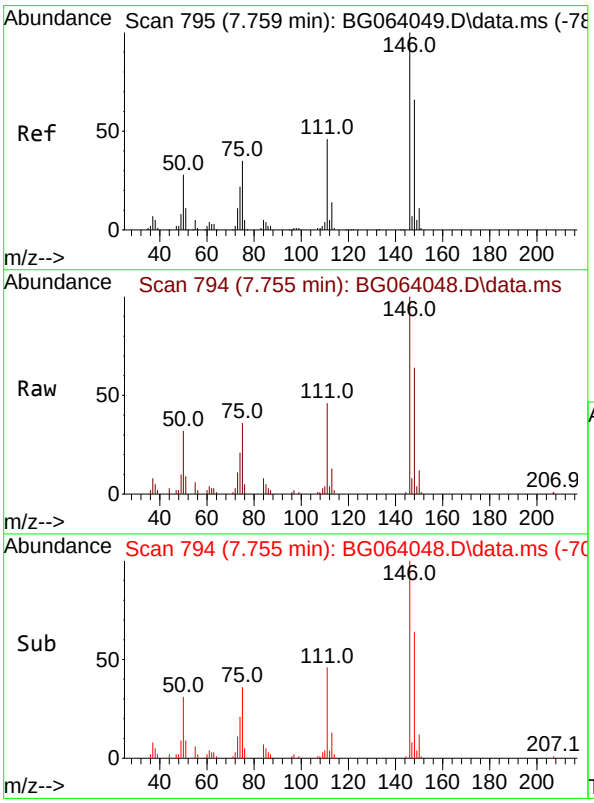
Ion	Ratio	Lower	Upper
93	100		
63	87.5	70.0	110.0
95	30.2	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

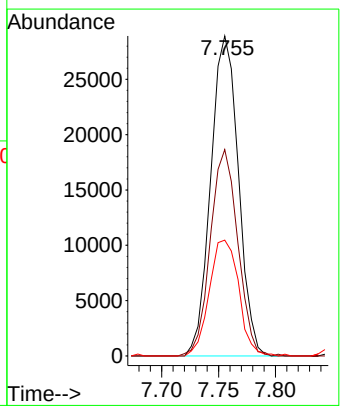
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

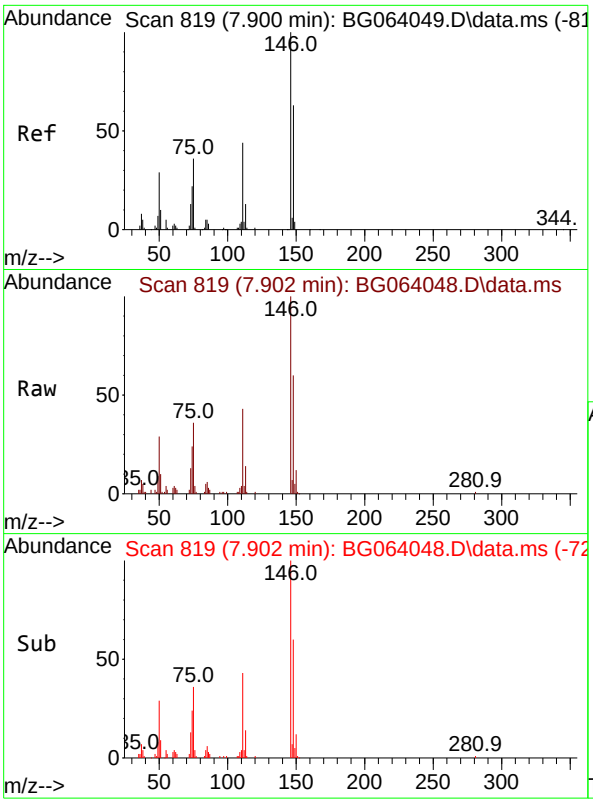


#12
1,3-Dichlorobenzene
Concen: 19.871 ng
RT: 7.755 min Scan# 794
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:146 Resp: 48956

Ion	Ratio	Lower	Upper
146	100		
148	64.5	52.6	78.8
75	36.2	28.1	42.1

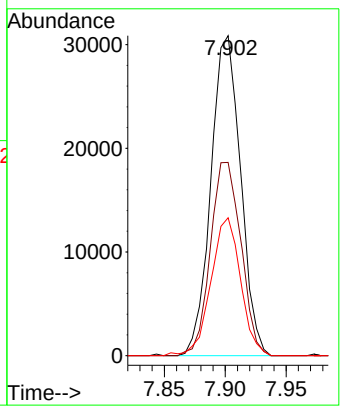




#13
1,4-Dichlorobenzene
Concen: 20.757 ng
RT: 7.902 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:146 Resp: 5241

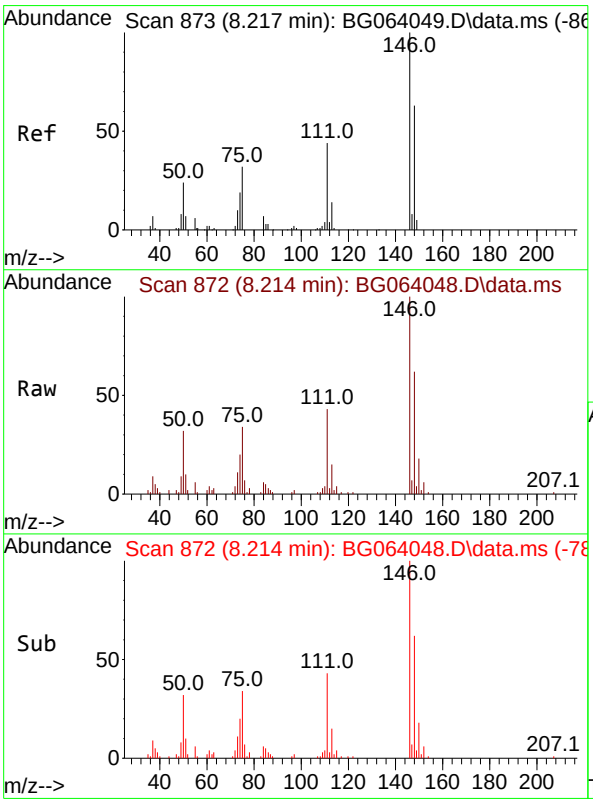
Ion	Ratio	Lower	Upper
146	100		
148	60.4	50.6	75.8
111	43.1	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

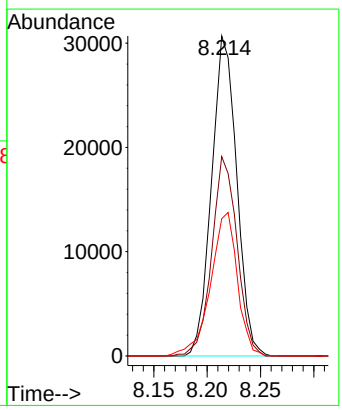
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

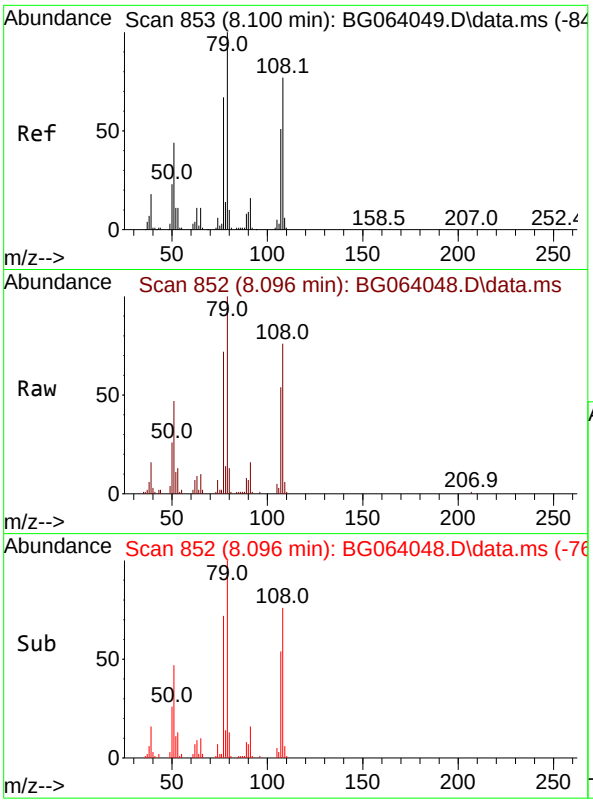


#14
1,2-Dichlorobenzene
Concen: 20.663 ng
RT: 8.214 min Scan# 872
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:146 Resp: 50317

Ion	Ratio	Lower	Upper
146	100		
148	62.3	50.2	75.2
111	42.9	36.4	54.6

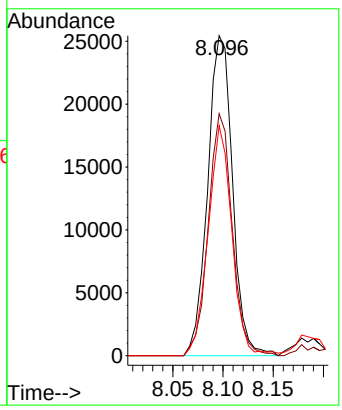




#15
Benzyl Alcohol
Concen: 19.946 ng
RT: 8.096 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 79 Resp: 4380

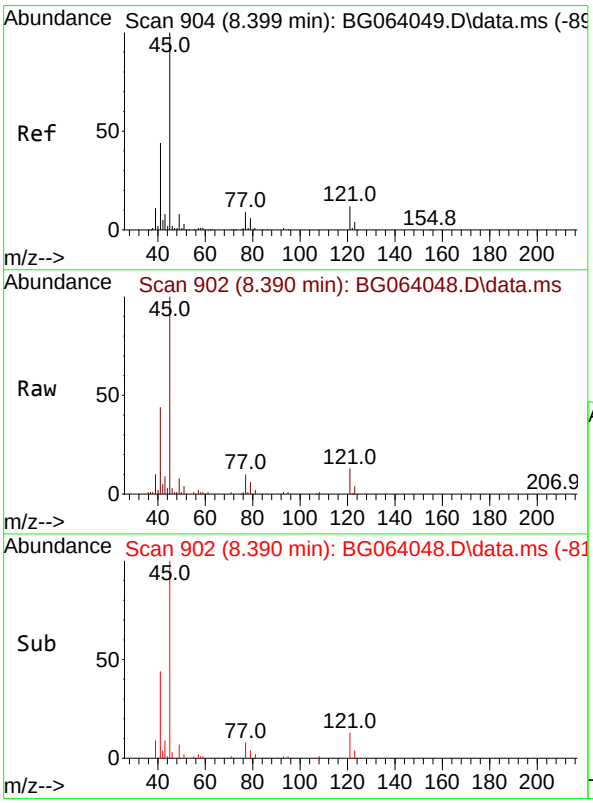
Ion	Ratio	Lower	Upper
79	100		
108	75.6	61.7	92.5
77	71.9	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

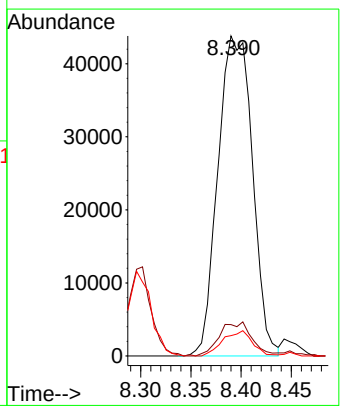
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

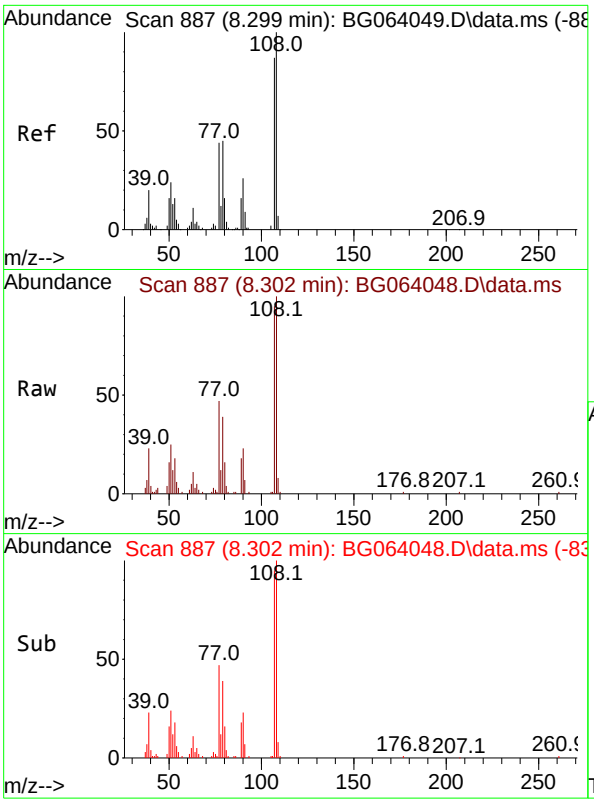


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.405 ng
RT: 8.390 min Scan# 902
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 45 Resp: 104660

Ion	Ratio	Lower	Upper
45	100		
77	9.8	0.0	29.0
79	6.3	0.0	26.6

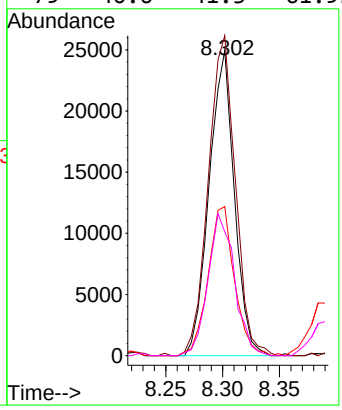




#17
2-Methylphenol
Concen: 19.883 ng
RT: 8.302 min Scan# 8
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:107 Resp: 3839

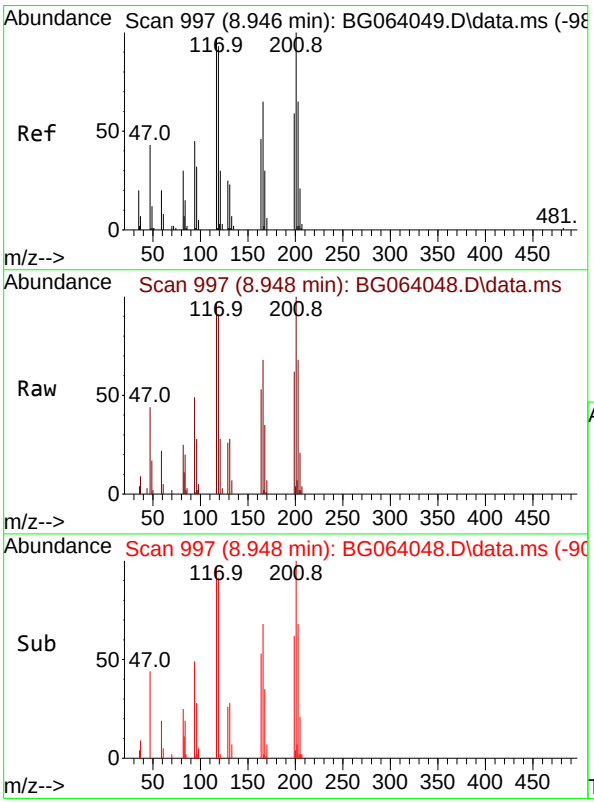
Ion	Ratio	Lower	Upper
107	100		
108	104.8	92.5	138.7
77	48.9	40.5	60.7
79	40.6	41.3	61.9#



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

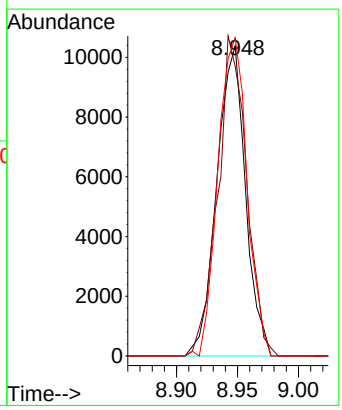
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

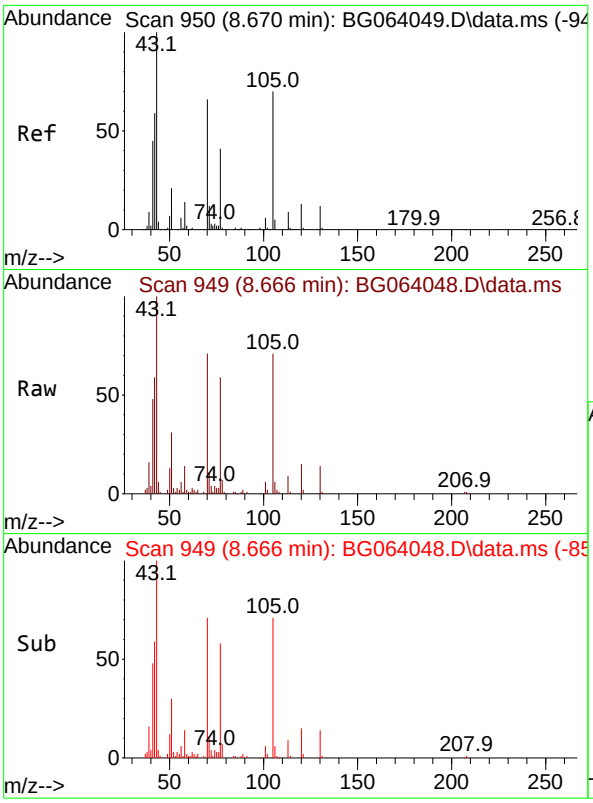


#18
Hexachloroethane
Concen: 19.194 ng
RT: 8.948 min Scan# 997
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:117 Resp: 16959

Ion	Ratio	Lower	Upper
117	100		
119	93.5	76.2	114.2
201	102.7	81.5	122.3

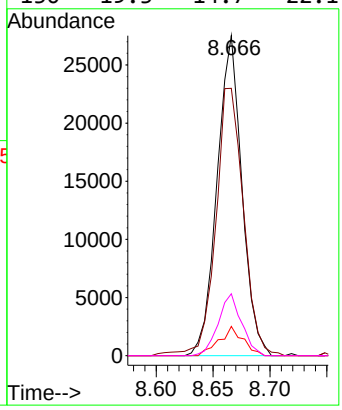




#19
n-Nitroso-di-n-propylamine
Concen: 20.960 ng
RT: 8.666 min Scan# 94
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 70 Resp: 4180

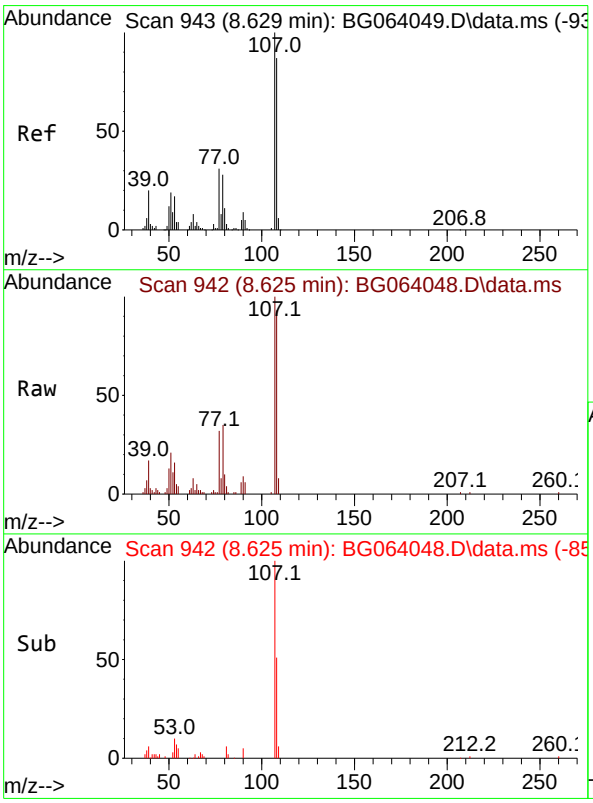
Ion	Ratio	Lower	Upper
70	100		
42	83.5	72.1	108.1
101	9.2	7.2	10.8
130	19.3	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

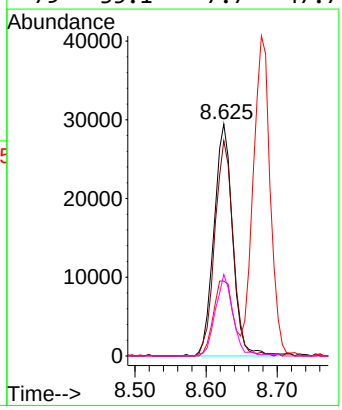
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

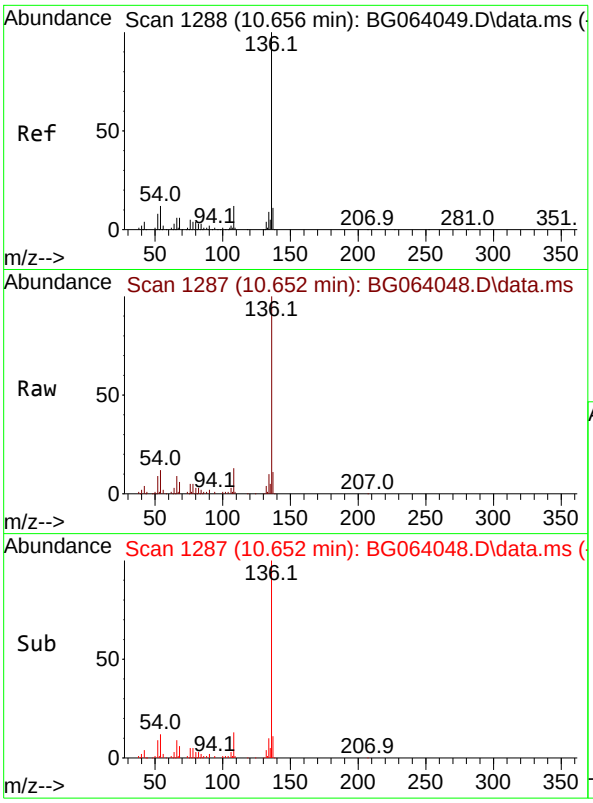


#20
3+4-Methylphenols
Concen: 20.102 ng
RT: 8.625 min Scan# 942
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:107 Resp: 53440

Ion	Ratio	Lower	Upper
107	100		
108	92.8	67.0	107.0
77	32.3	11.2	51.2
79	35.1	7.7	47.7

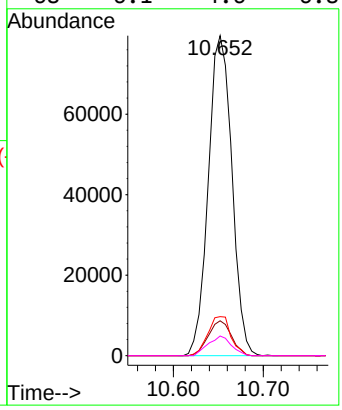




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:136 Resp: 14508

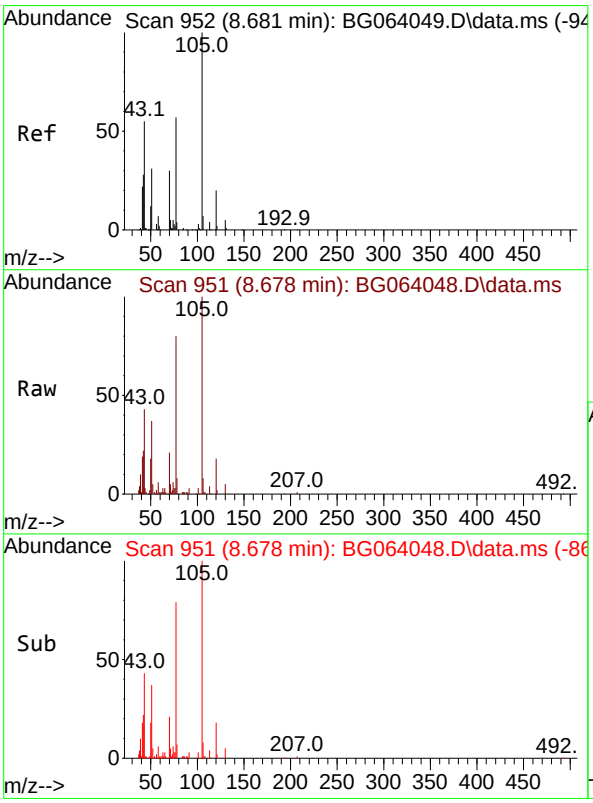
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	12.2	9.9	14.9
68	6.1	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

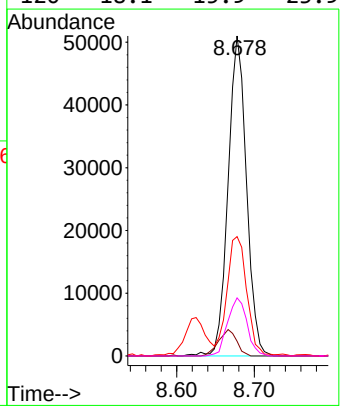
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

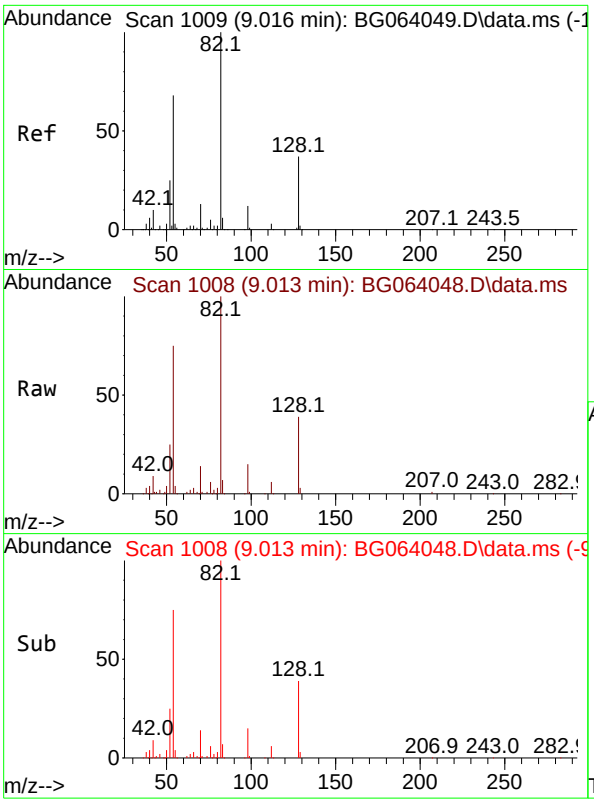


#22
Acetophenone
Concen: 21.140 ng
RT: 8.678 min Scan# 951
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:105 Resp: 84092

Ion	Ratio	Lower	Upper
105	100		
71	4.6	4.2	6.4
51	37.3	33.3	49.9
120	18.1	15.9	23.9

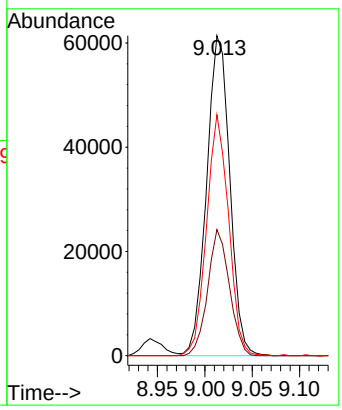




#23
Nitrobenzene-d5
Concen: 39.746 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 82 Resp: 10434

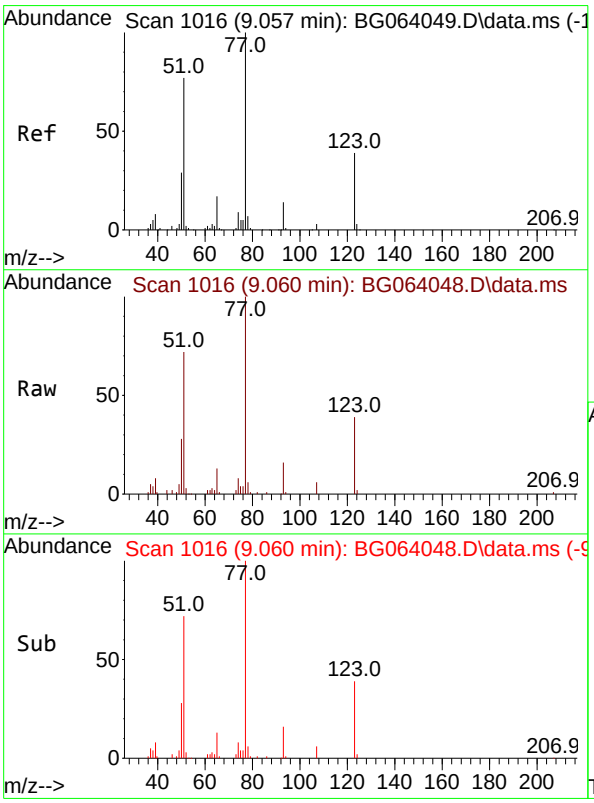
Ion	Ratio	Lower	Upper
82	100		
128	39.4	30.0	45.0
54	75.3	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

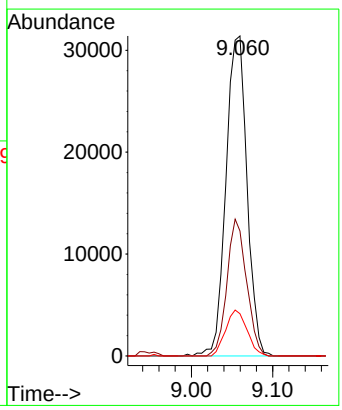
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

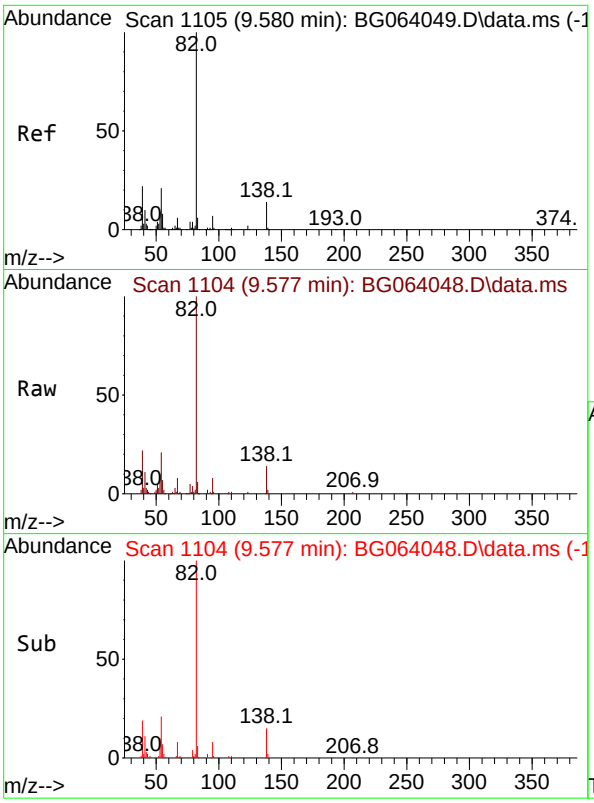


#24
Nitrobenzene
Concen: 20.828 ng
RT: 9.060 min Scan# 1016
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 77 Resp: 56511

Ion	Ratio	Lower	Upper
77	100		
123	39.1	31.4	47.2
65	13.2	13.4	20.0#

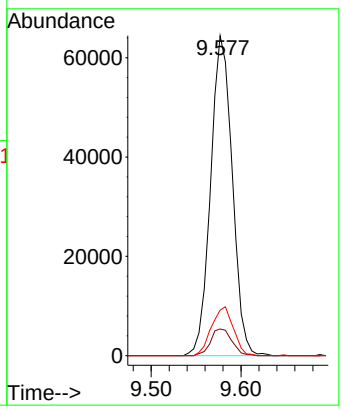




#25
Isophorone
Concen: 20.530 ng
RT: 9.577 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 82 Resp: 10788

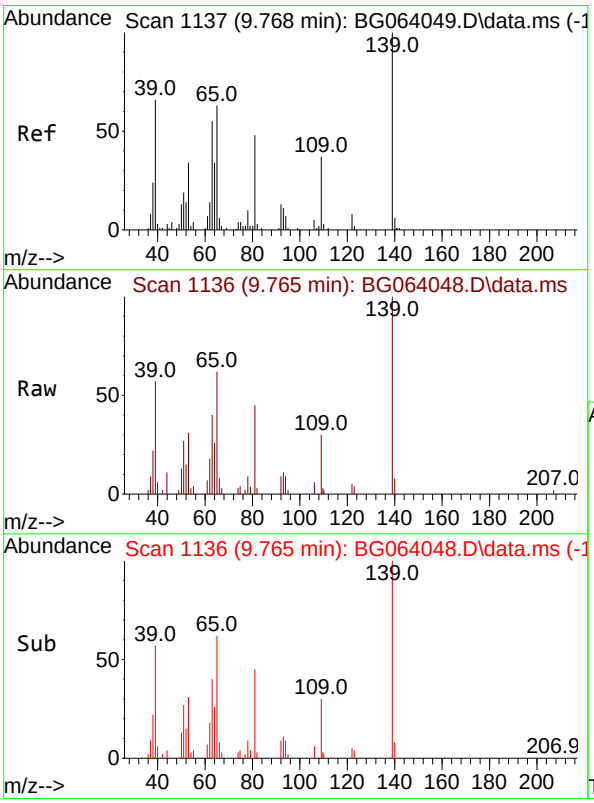
Ion	Ratio	Lower	Upper
82	100		
95	8.3	5.8	8.8
138	14.3	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

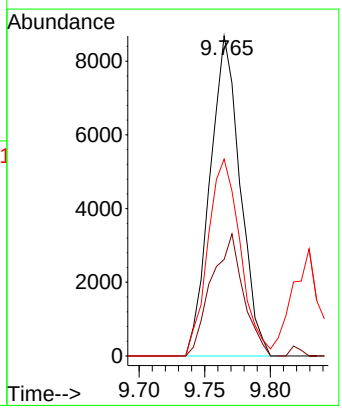
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

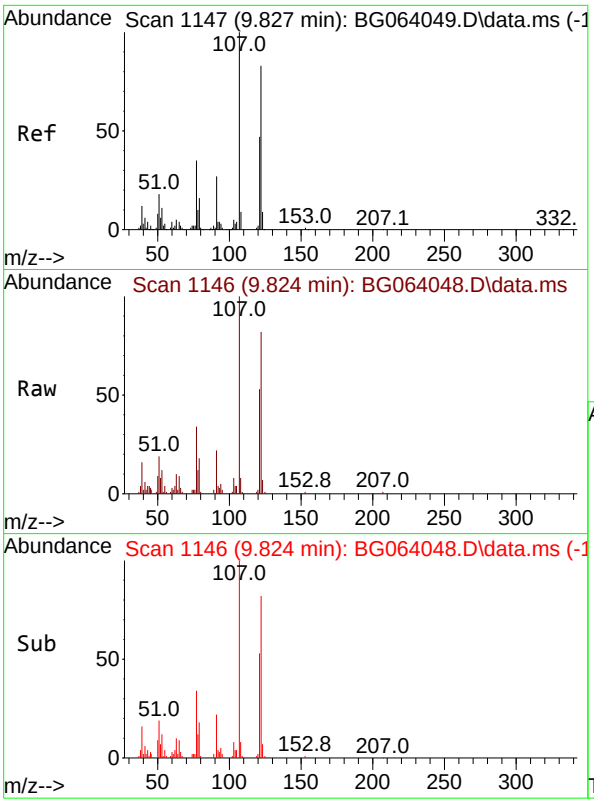


#26
2-Nitrophenol
Concen: 18.663 ng
RT: 9.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:139 Resp: 13886

Ion	Ratio	Lower	Upper
139	100		
109	33.1	29.9	44.9
65	61.5	50.6	76.0

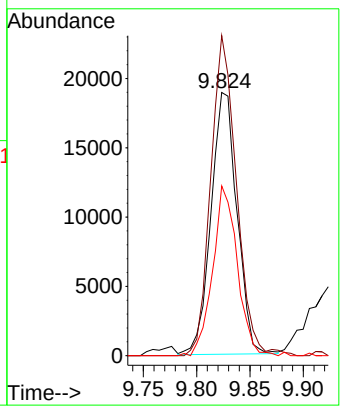




#27
2,4-Dimethylphenol
Concen: 20.322 ng
RT: 9.824 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:122 Resp: 3201

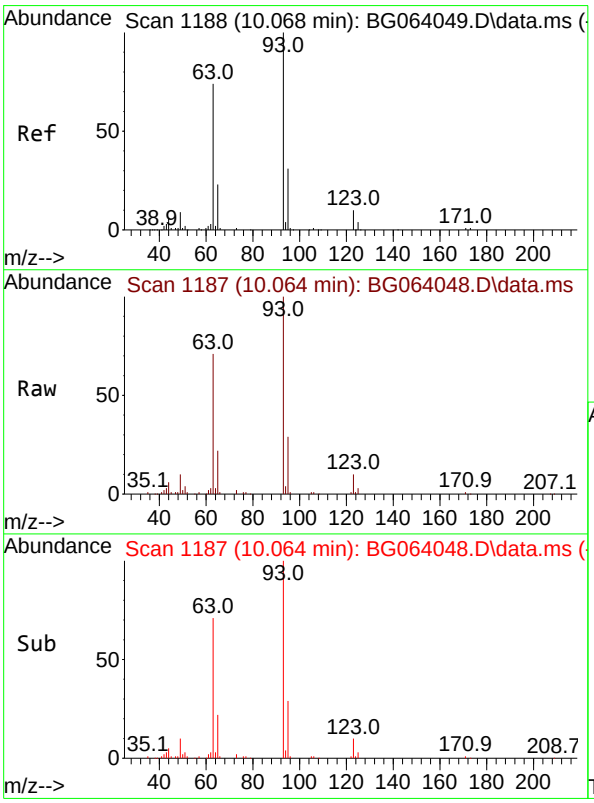
Ion	Ratio	Lower	Upper
122	100		
107	121.6	95.4	143.0
121	64.5	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

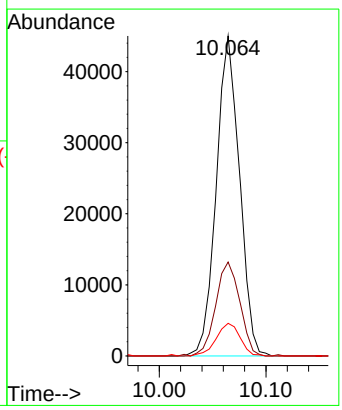
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

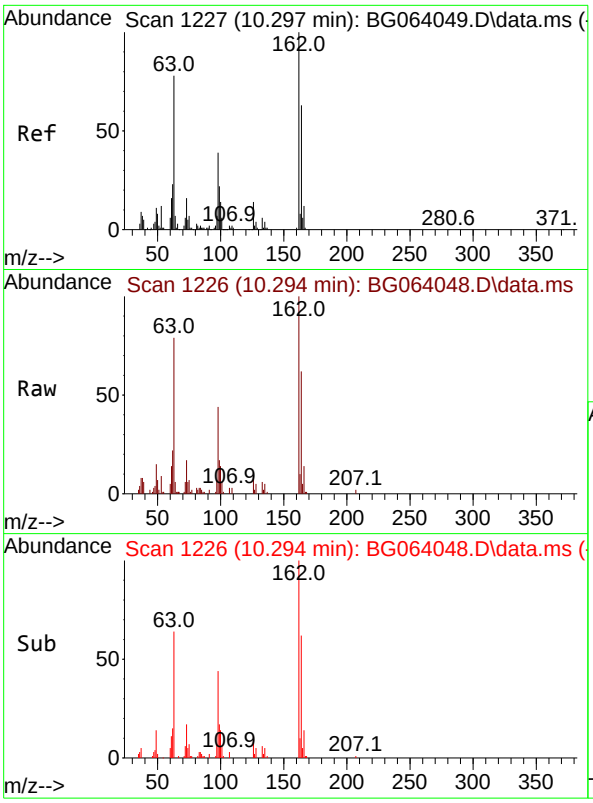


#28
bis(2-Chloroethoxy)methane
Concen: 21.327 ng
RT: 10.064 min Scan# 1187
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 93 Resp: 67945

Ion	Ratio	Lower	Upper
93	100		
95	29.3	25.0	37.4
123	10.2	7.6	11.4

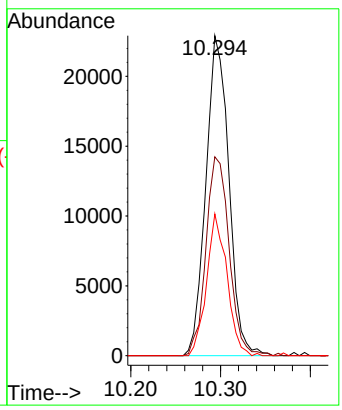




#29
2,4-Dichlorophenol
Concen: 20.475 ng
RT: 10.294 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:162 Resp: 4072

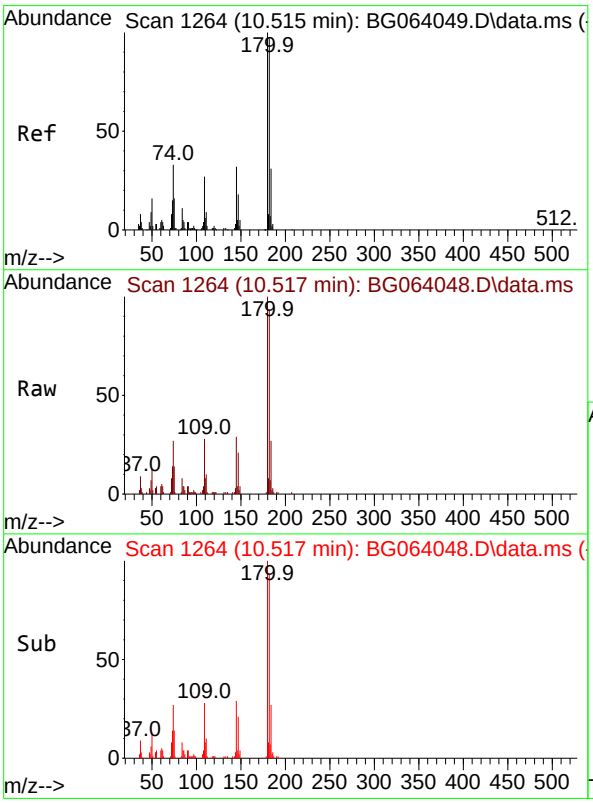
Ion	Ratio	Lower	Upper
162	100		
164	62.2	42.8	82.8
98	44.3	19.1	59.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

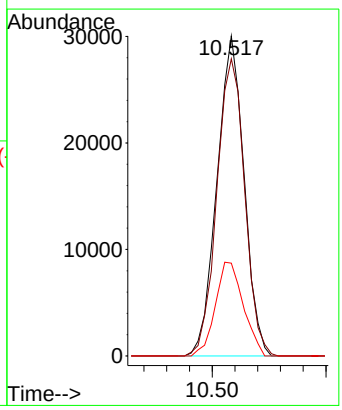
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

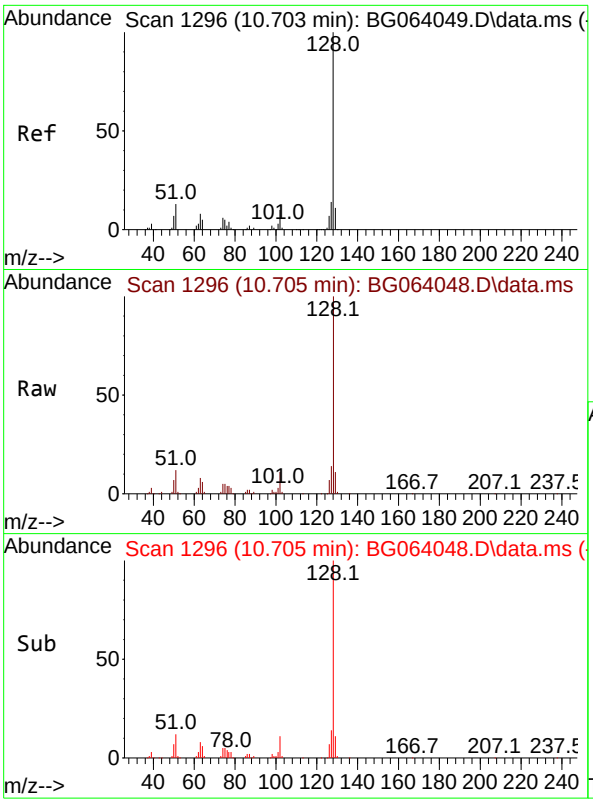


#30
1,2,4-Trichlorobenzene
Concen: 20.698 ng
RT: 10.517 min Scan# 1264
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:180 Resp: 49701

Ion	Ratio	Lower	Upper
180	100		
182	92.8	77.3	115.9
145	29.0	25.2	37.8

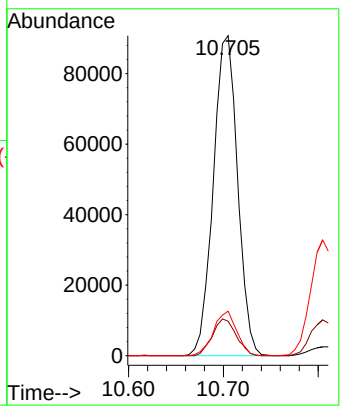




#31
Naphthalene
Concen: 20.654 ng
RT: 10.705 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:128 Resp: 16158

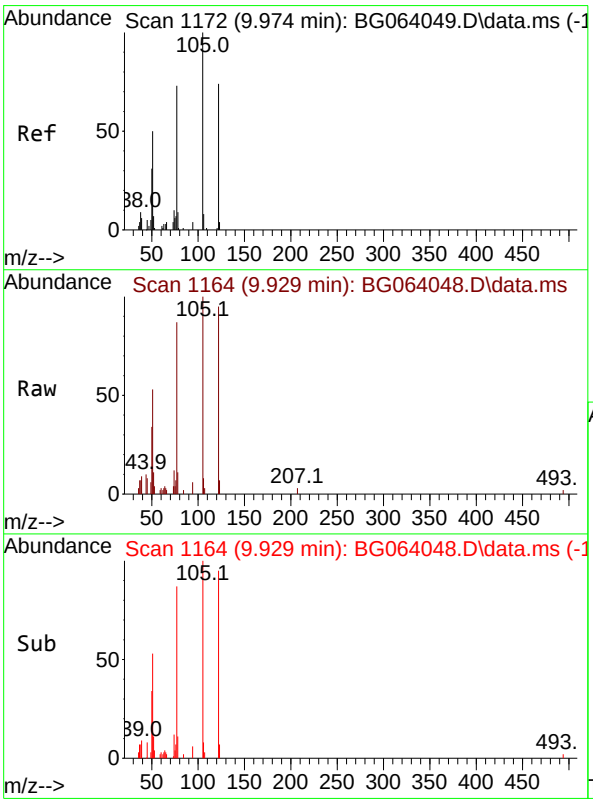
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	13.9	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

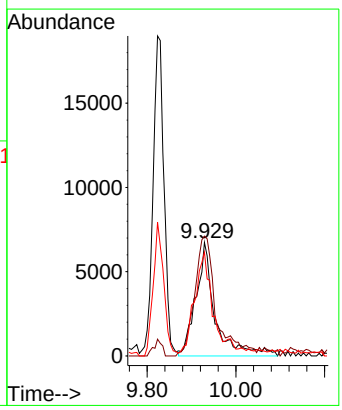
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

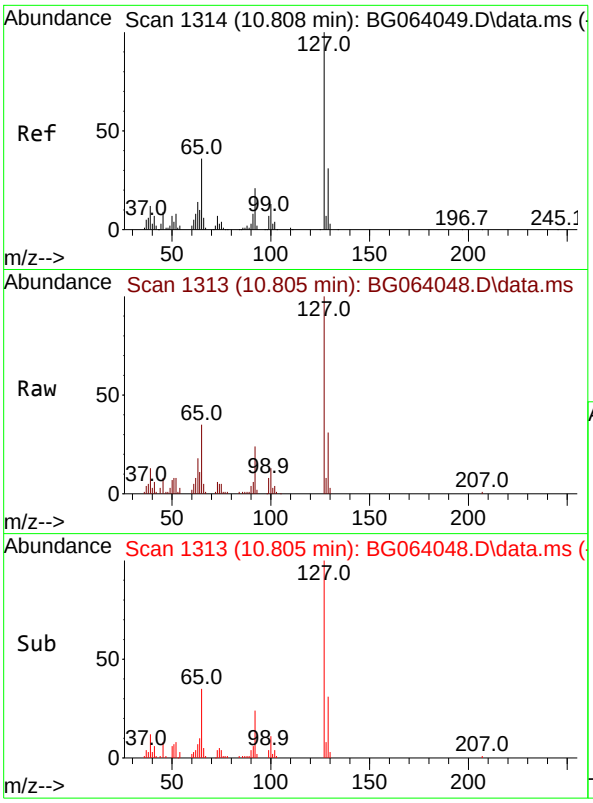


#32
Benzoic acid
Concen: 20.131 ng m
RT: 9.929 min Scan# 1164
Delta R.T. -0.045 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:122 Resp: 20223

Ion	Ratio	Lower	Upper
122	100		
105	105.6	115.0	155.0#
77	91.5	80.9	120.9

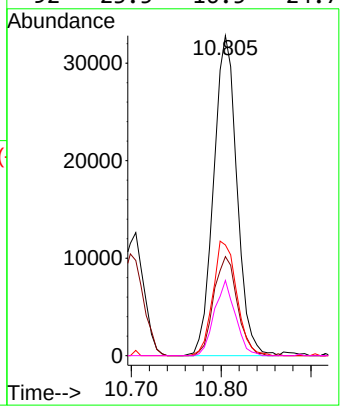




#33
4-Chloroaniline
Concen: 20.668 ng
RT: 10.805 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:127 Resp: 5909

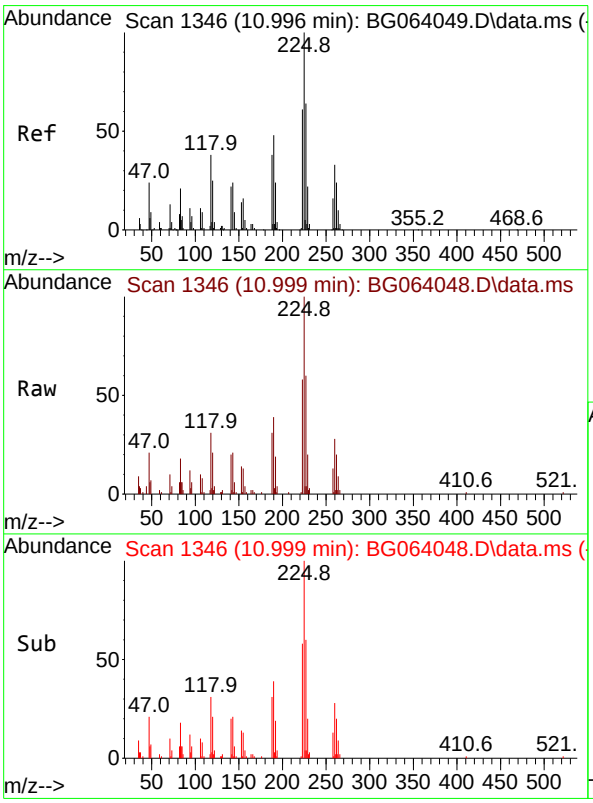
Ion	Ratio	Lower	Upper
127	100		
129	30.9	25.0	37.4
65	34.6	28.5	42.7
92	23.5	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

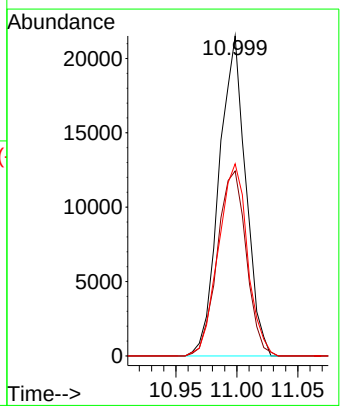
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

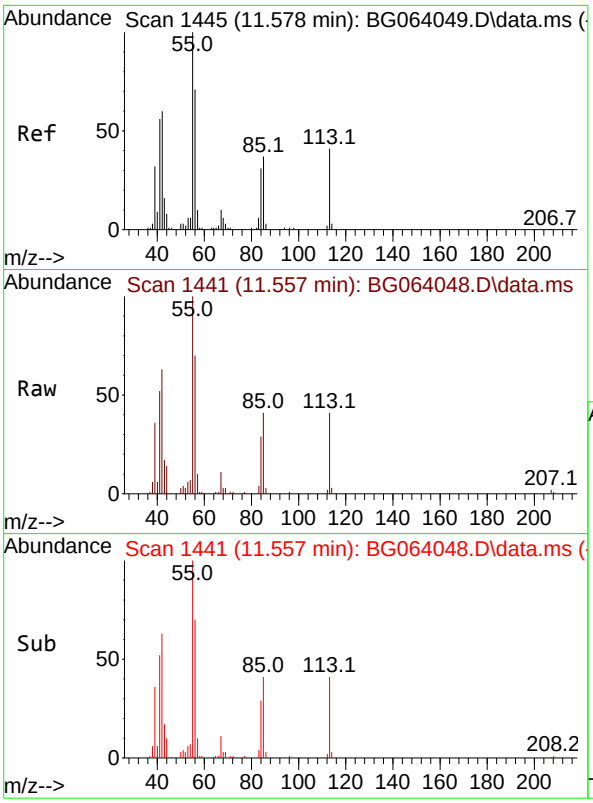


#34
Hexachlorobutadiene
Concen: 20.760 ng
RT: 10.999 min Scan# 1346
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:225 Resp: 32675

Ion	Ratio	Lower	Upper
225	100		
223	57.8	48.5	72.7
227	60.1	51.0	76.6

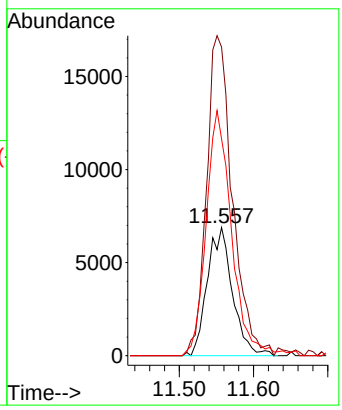




#35
Caprolactam
Concen: 21.319 ng
RT: 11.557 min Scan# 14
Delta R.T. -0.021 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:113 Resp: 1625

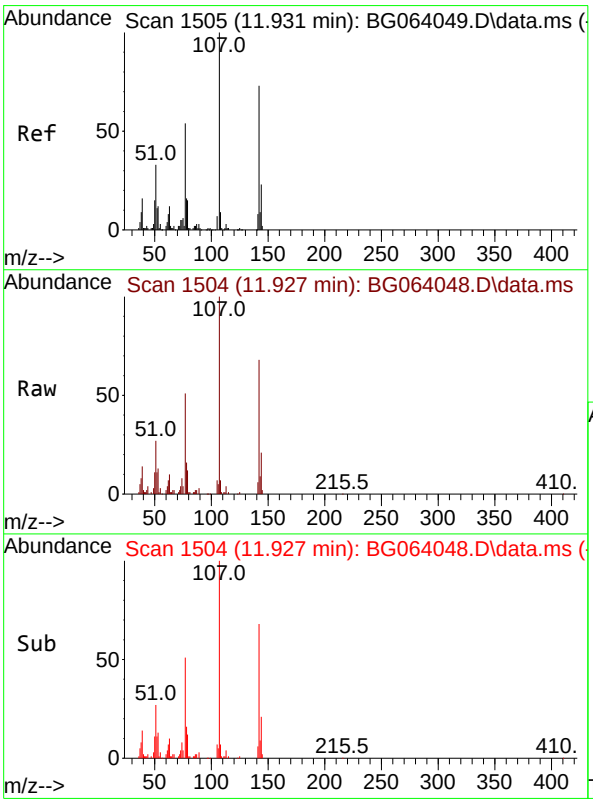
Ion	Ratio	Lower	Upper
113	100		
55	241.0	225.2	265.2
56	169.2	153.4	193.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

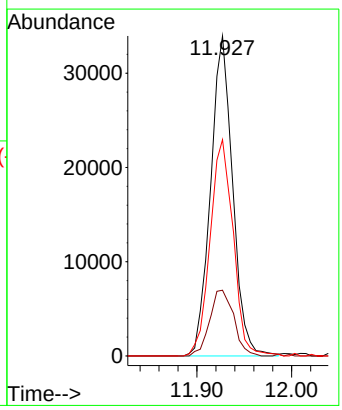
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

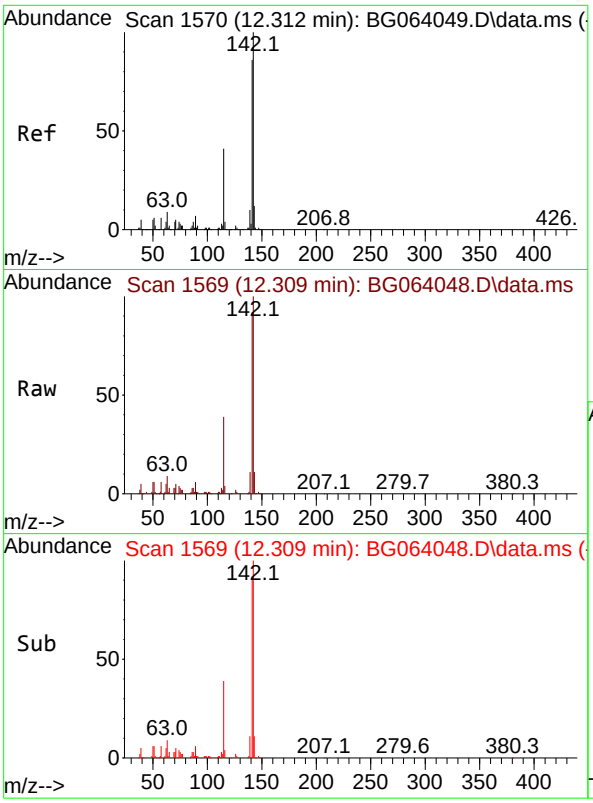


#36
4-Chloro-3-methylphenol
Concen: 21.103 ng
RT: 11.927 min Scan# 1504
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:107 Resp: 55024

Ion	Ratio	Lower	Upper
107	100		
144	20.5	18.6	28.0
142	67.6	58.0	87.0

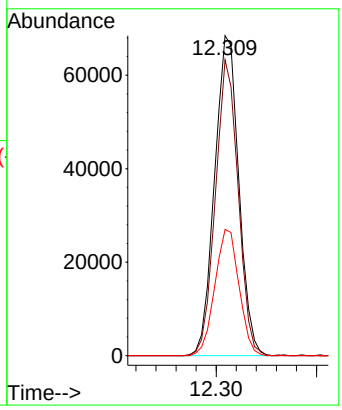




#37
2-Methylnaphthalene
Concen: 20.696 ng
RT: 12.309 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:142 Resp: 11430

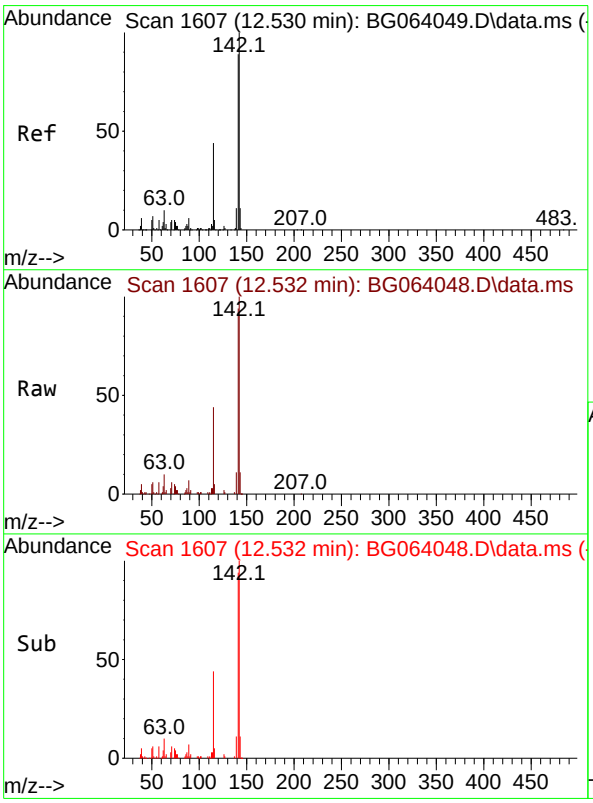
Ion	Ratio	Lower	Upper
142	100		
141	92.5	68.6	103.0
115	39.4	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

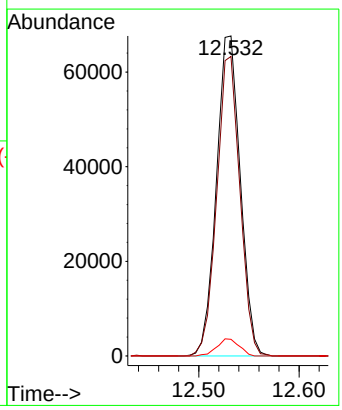
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

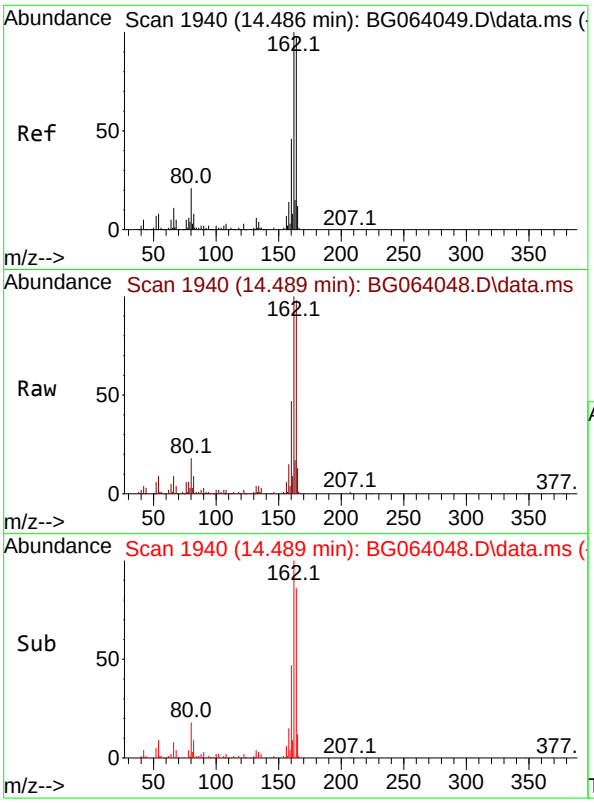


#38
1-Methylnaphthalene
Concen: 20.668 ng
RT: 12.532 min Scan# 1607
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:142 Resp: 111828

Ion	Ratio	Lower	Upper
142	100		
141	93.6	71.2	106.8
116	5.2	3.6	5.4

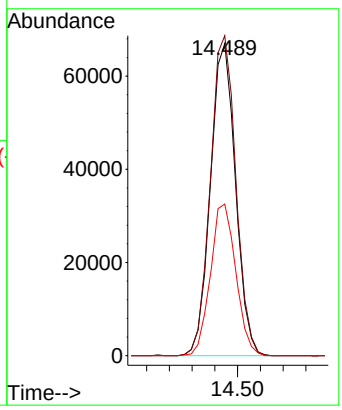




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.489 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:164 Resp: 10233

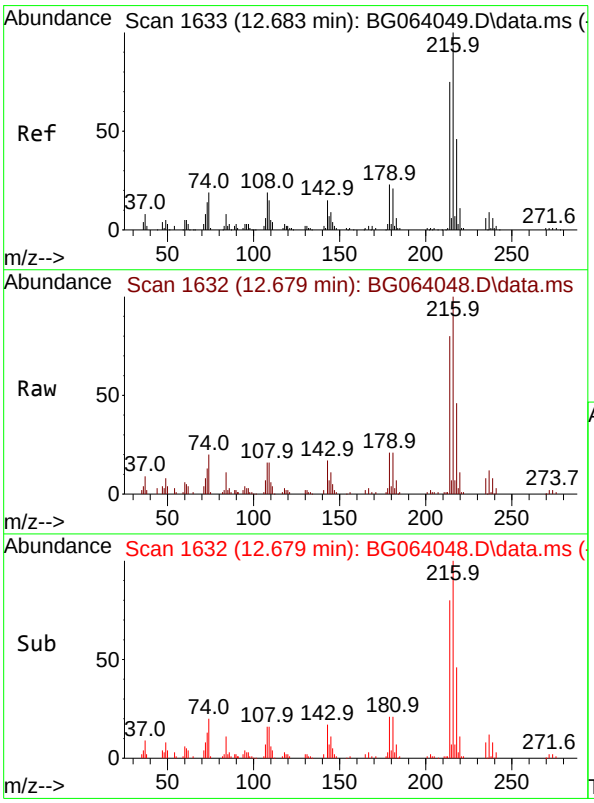
Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.4	122.0
160	48.6	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

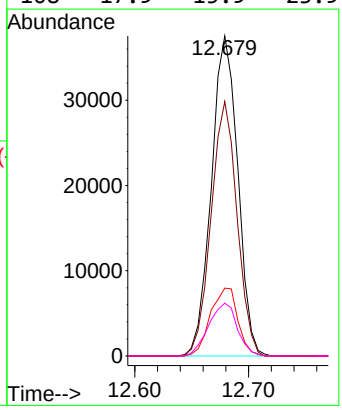
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

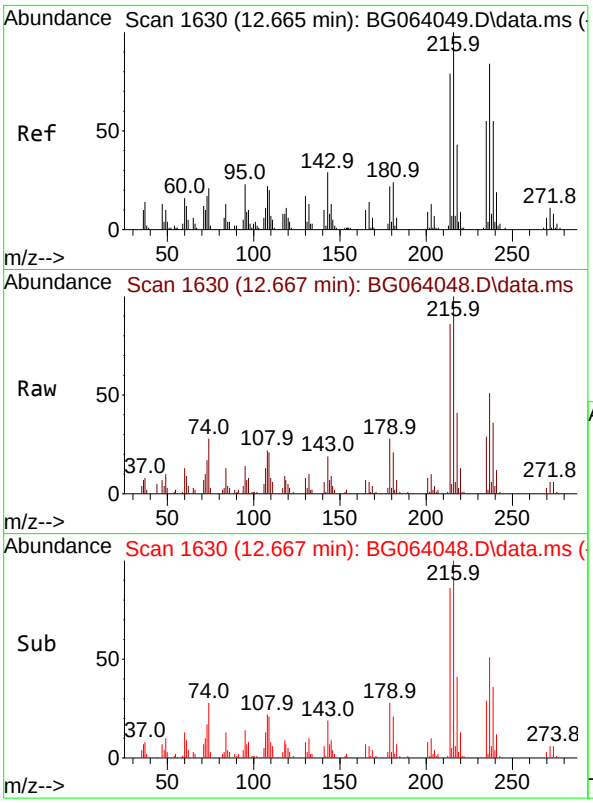


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.727 ng
RT: 12.679 min Scan# 1632
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:216 Resp: 60556

Ion	Ratio	Lower	Upper
216	100		
214	78.2	61.7	92.5
179	22.0	17.9	26.9
108	17.9	15.9	23.9

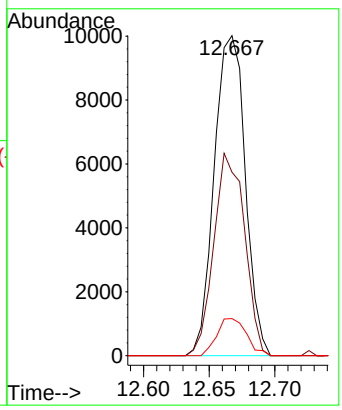




#41
Hexachlorocyclopentadiene
Concen: 20.029 ng
RT: 12.667 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:237 Resp: 1647

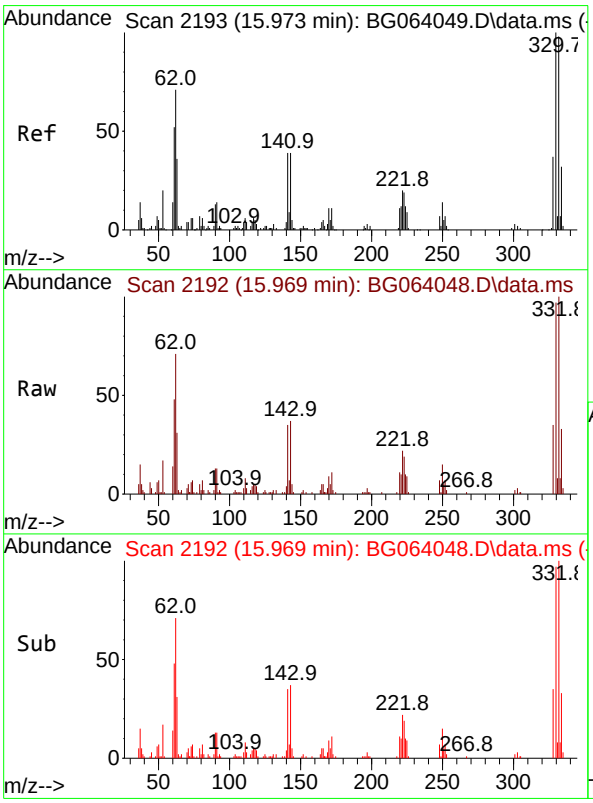
Ion	Ratio	Lower	Upper
237	100		
235	57.4	46.0	86.0
272	11.6	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

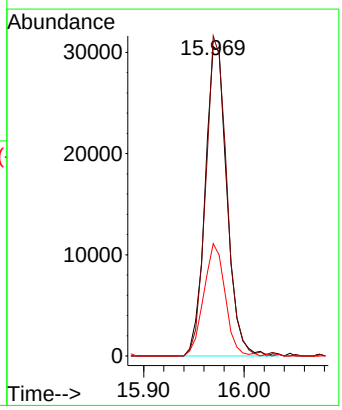
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

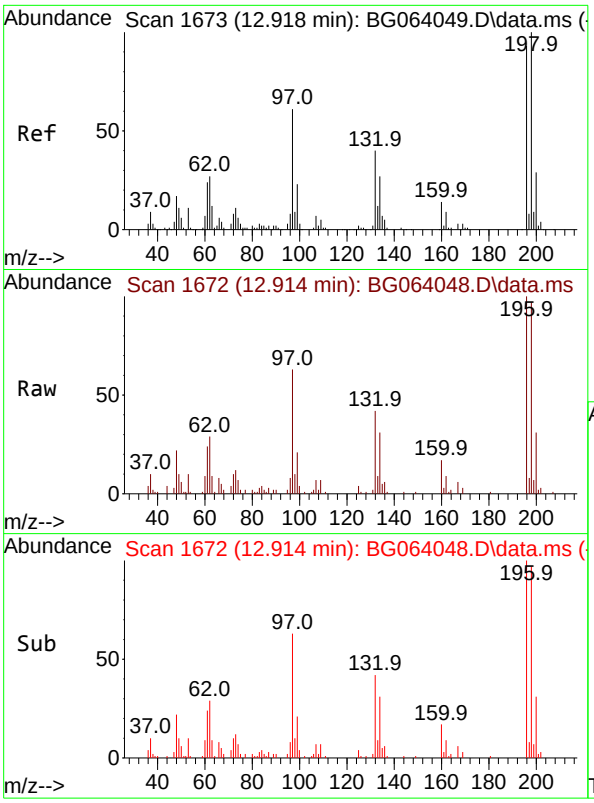


#42
2,4,6-Tribromophenol
Concen: 40.723 ng
RT: 15.969 min Scan# 2192
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:330 Resp: 46324

Ion	Ratio	Lower	Upper
330	100		
332	99.8	76.7	115.1
141	35.7	29.7	44.5

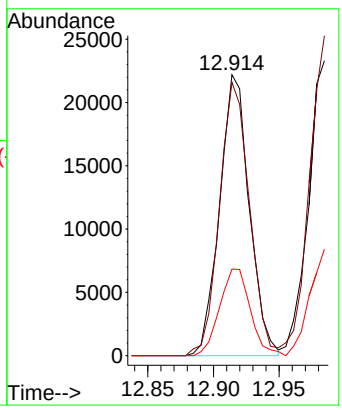




#43
2,4,6-Trichlorophenol
Concen: 20.264 ng
RT: 12.914 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:196 Resp: 3489

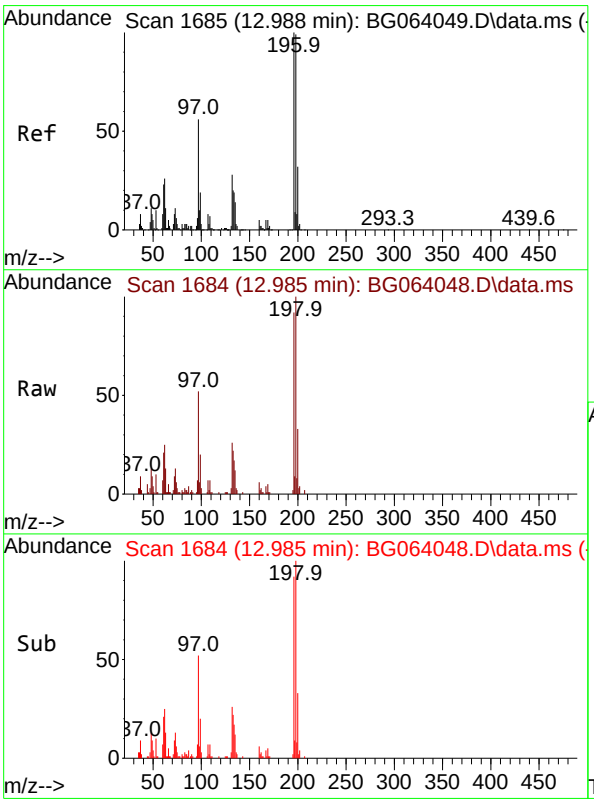
Ion	Ratio	Lower	Upper
196	100		
198	97.3	85.6	128.4
200	30.8	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

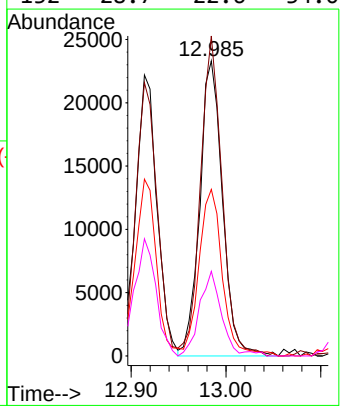
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

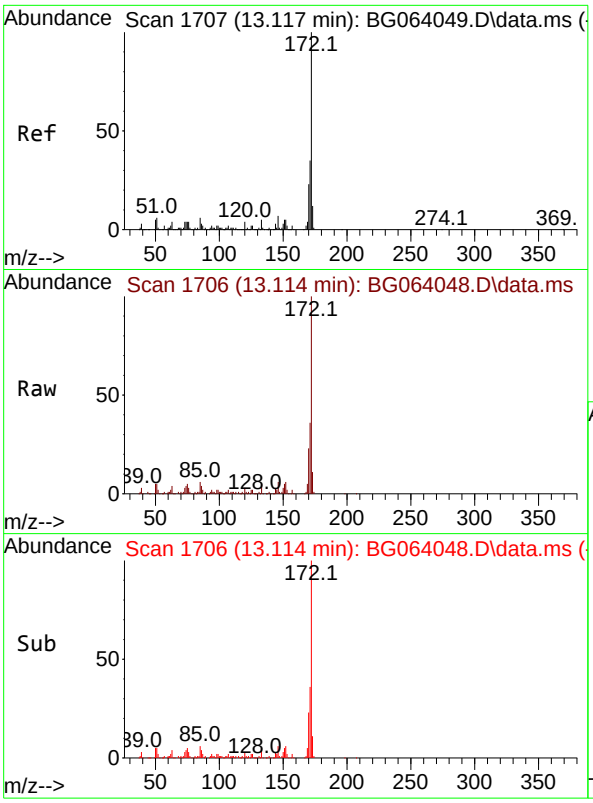


#44
2,4,5-Trichlorophenol
Concen: 20.381 ng
RT: 12.985 min Scan# 1684
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:196 Resp: 38995

Ion	Ratio	Lower	Upper
196	100		
198	108.4	79.5	119.3
97	56.4	45.2	67.8
132	28.7	22.6	34.0

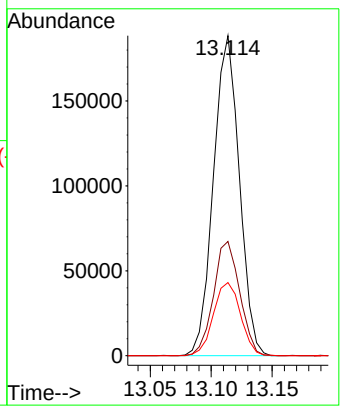




#45
2-Fluorobiphenyl
Concen: 41.267 ng
RT: 13.114 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:172 Resp: 27822

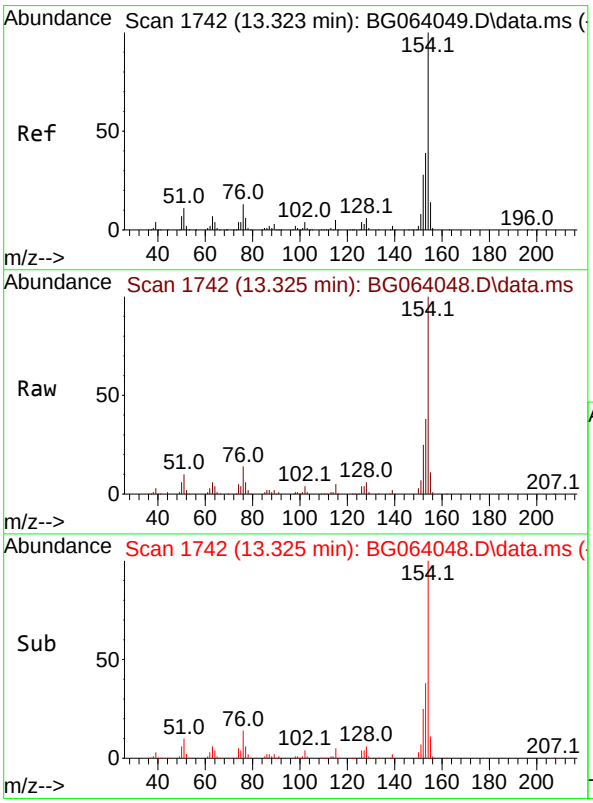
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.0	42.0
170	22.9	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

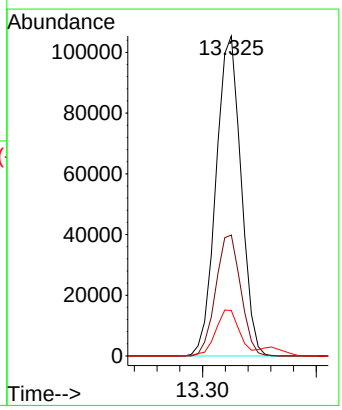
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

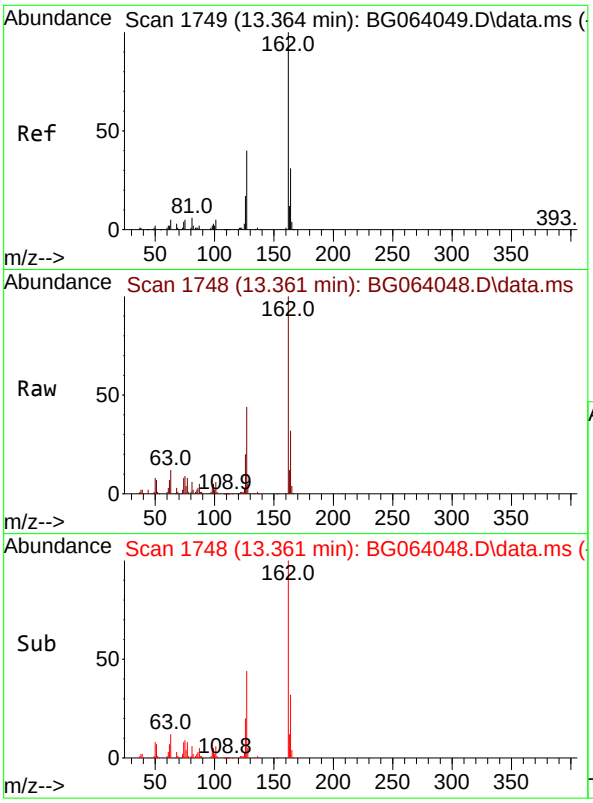


#46
1,1'-Biphenyl
Concen: 20.803 ng
RT: 13.325 min Scan# 1742
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:154 Resp: 160835

Ion	Ratio	Lower	Upper
154	100		
153	37.8	19.5	59.5
76	14.2	0.0	33.5

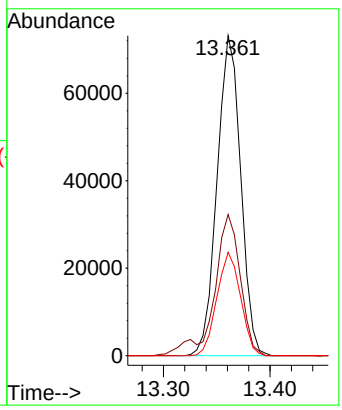




#47
2-Chloronaphthalene
Concen: 19.971 ng
RT: 13.361 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:162 Resp: 11261

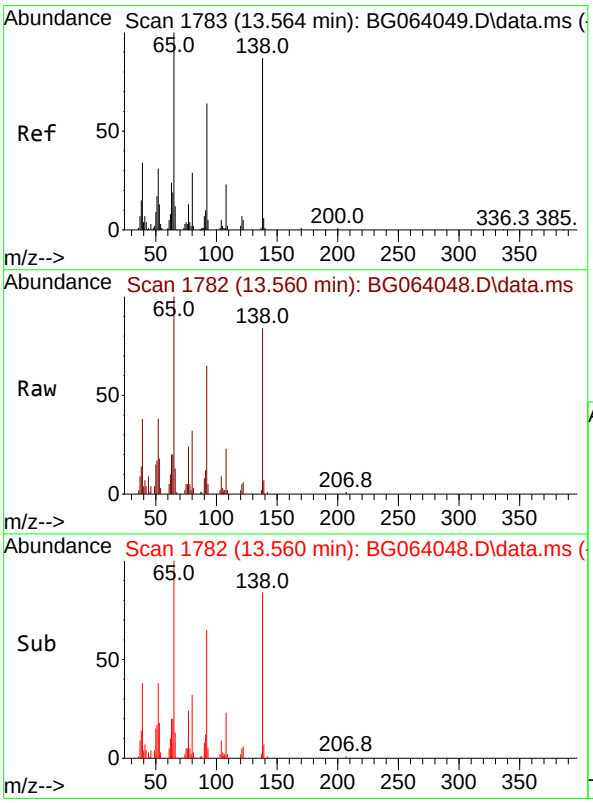
Ion	Ratio	Lower	Upper
162	100		
127	44.1	35.0	52.4
164	32.3	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

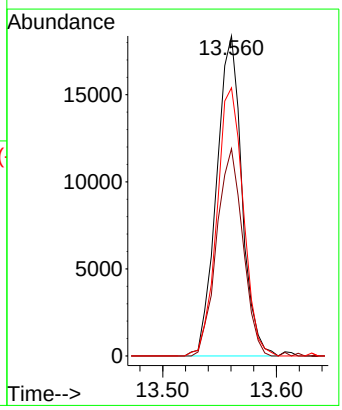
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

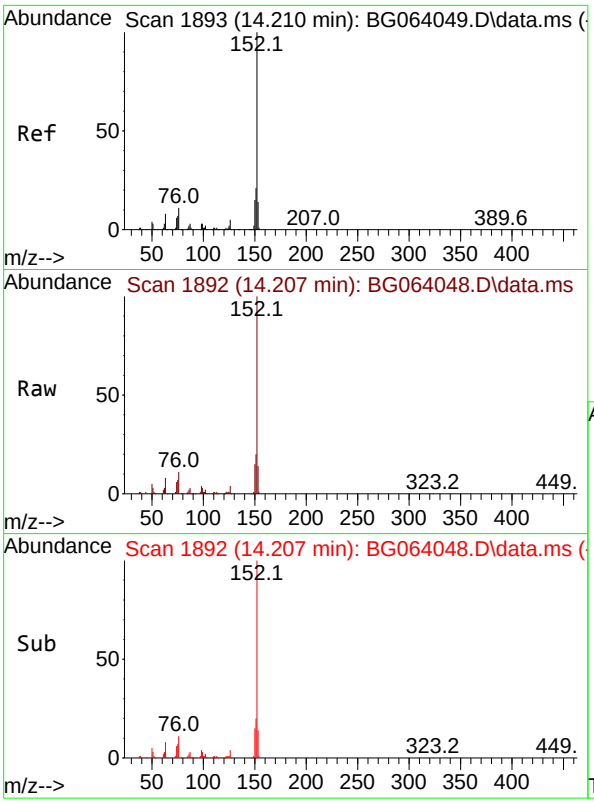


#48
2-Nitroaniline
Concen: 18.684 ng
RT: 13.560 min Scan# 1782
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 65 Resp: 28373

Ion	Ratio	Lower	Upper
65	100		
92	64.8	51.2	76.8
138	83.8	69.4	104.2

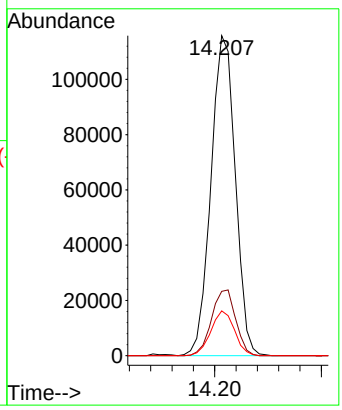




#49
Acenaphthylene
Concen: 20.571 ng
RT: 14.207 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:152 Resp: 18346

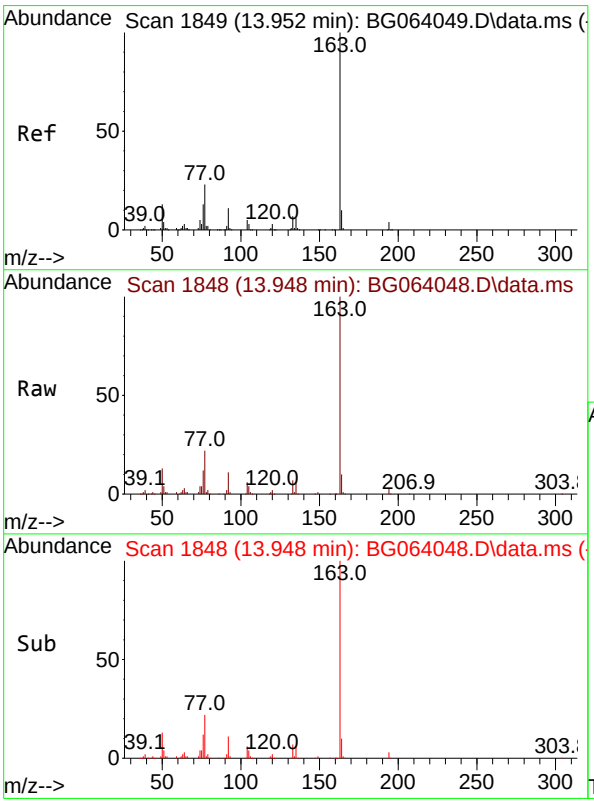
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.4	24.6
153	14.0	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

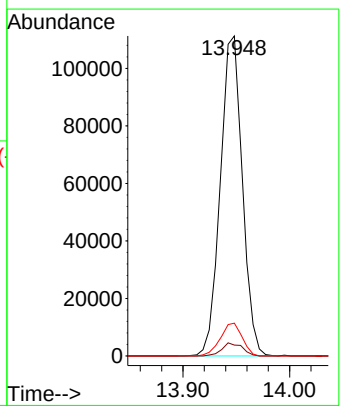
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

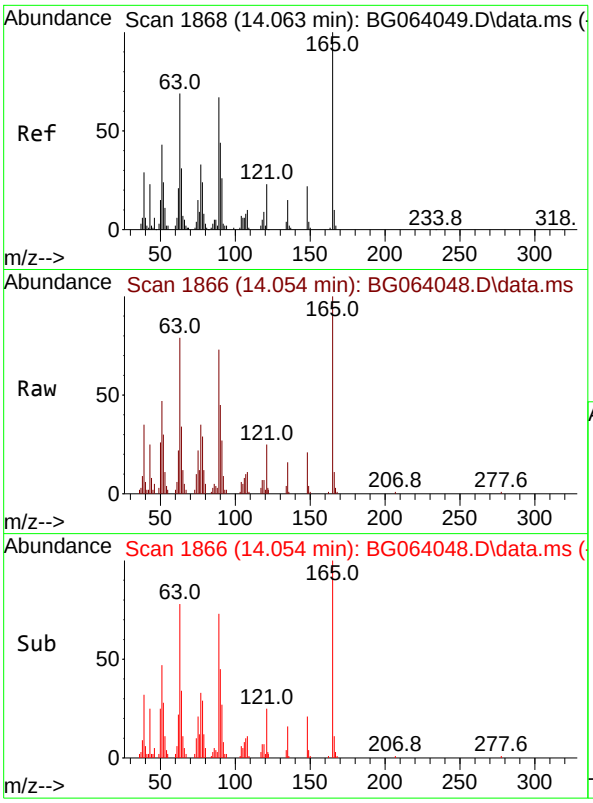


#50
Dimethylphthalate
Concen: 21.114 ng
RT: 13.948 min Scan# 1848
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:163 Resp: 159500

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.8	4.2
164	10.3	8.2	12.2

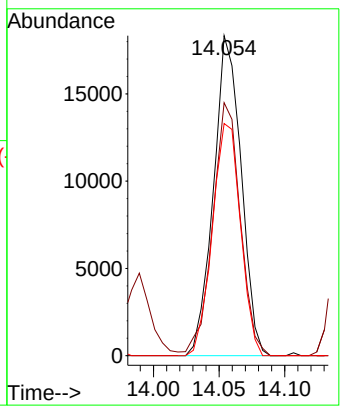




#51
2,6-Dinitrotoluene
Concen: 19.614 ng
RT: 14.054 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:165 Resp: 2678

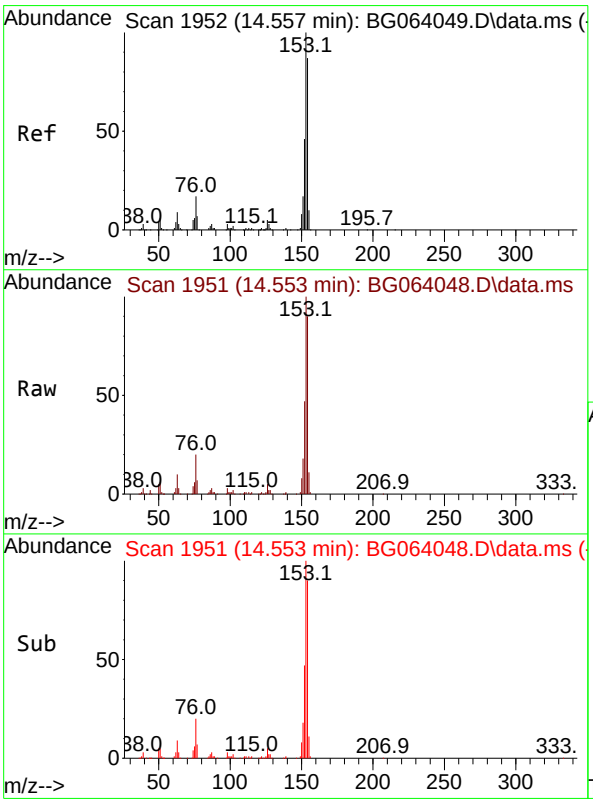
Ion	Ratio	Lower	Upper
165	100		
63	79.1	56.7	85.1
89	72.5	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

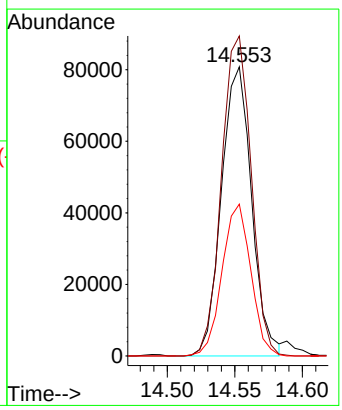
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

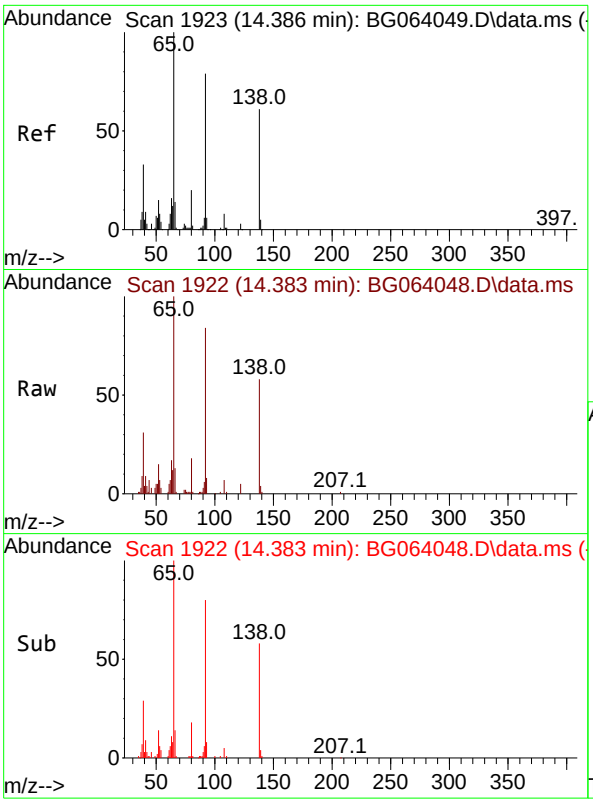


#52
Acenaphthene
Concen: 20.997 ng m
RT: 14.553 min Scan# 1951
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:154 Resp: 125939

Ion	Ratio	Lower	Upper
154	100		
153	110.7	91.6	137.4
152	52.5	42.5	63.7





#53
3-Nitroaniline
Concen: 20.902 ng
RT: 14.383 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

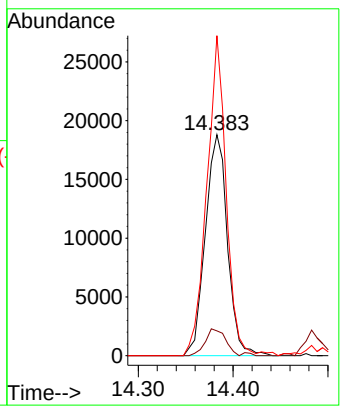
Tgt Ion:138 Resp: 3051

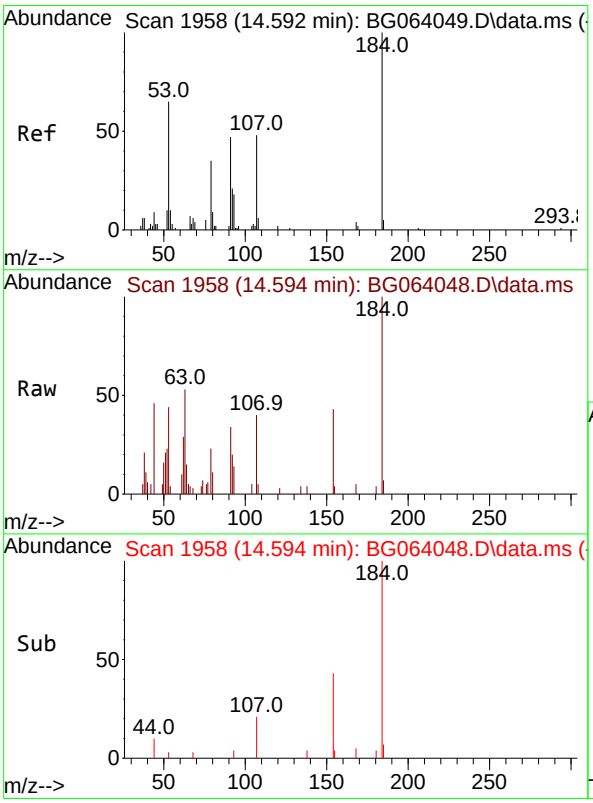
Ion	Ratio	Lower	Upper
138	100		
108	11.2	10.1	15.1
92	144.8	104.1	156.1

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

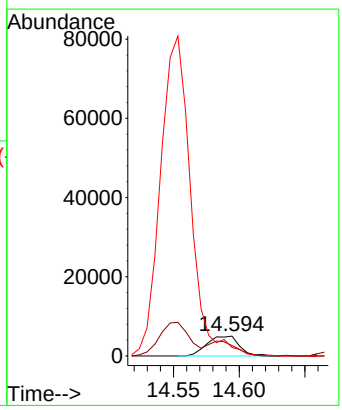


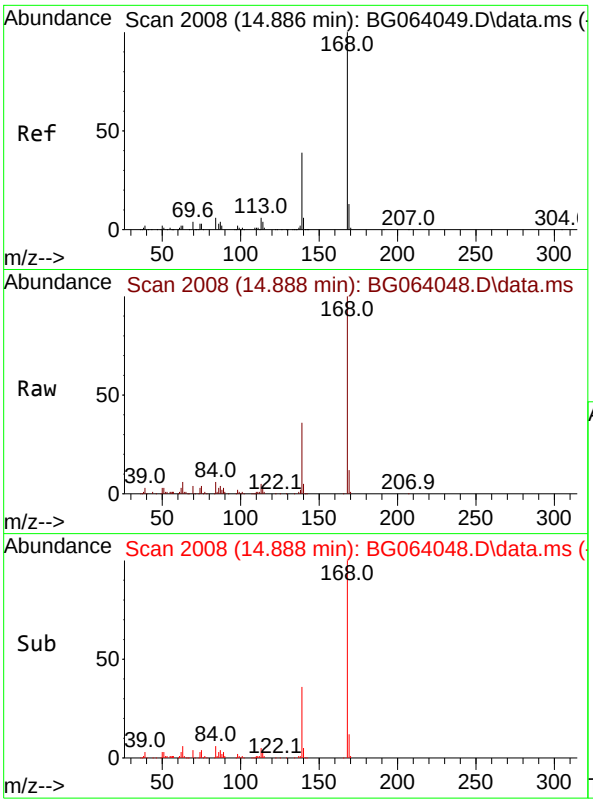


#54
2,4-Dinitrophenol
Concen: 19.958 ng
RT: 14.594 min Scan# 1958
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:184 Resp: 8560

Ion	Ratio	Lower	Upper
184	100		
63	52.7	57.5	86.3#
154	42.8	52.3	78.5#

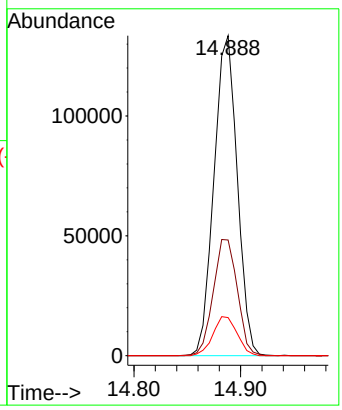




#55
Dibenzofuran
Concen: 20.856 ng
RT: 14.888 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:168 Resp: 20223

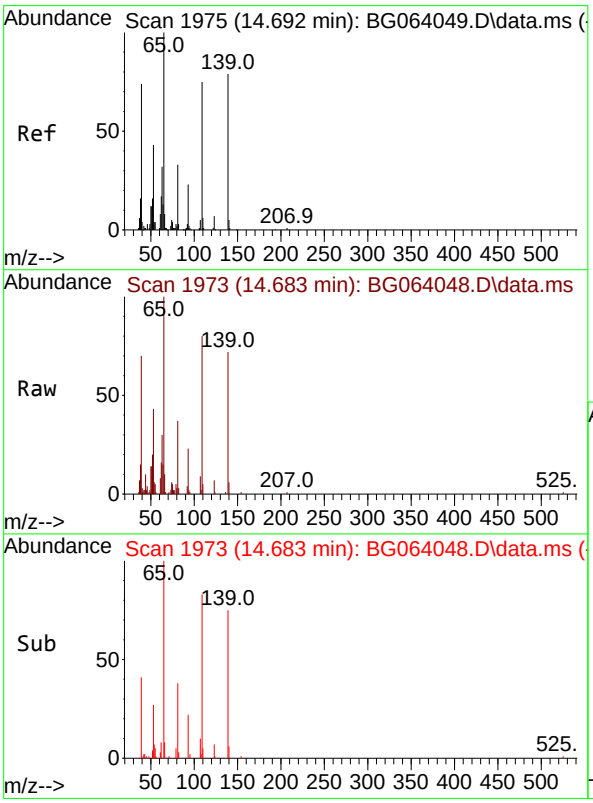
Ion	Ratio	Lower	Upper
168	100		
139	36.2	31.1	46.7
169	11.9	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

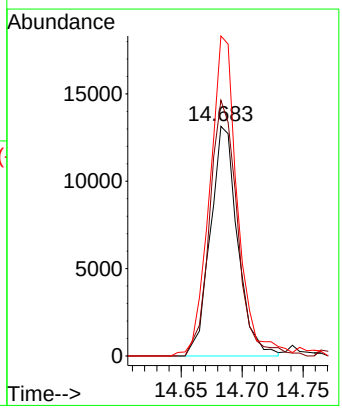
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

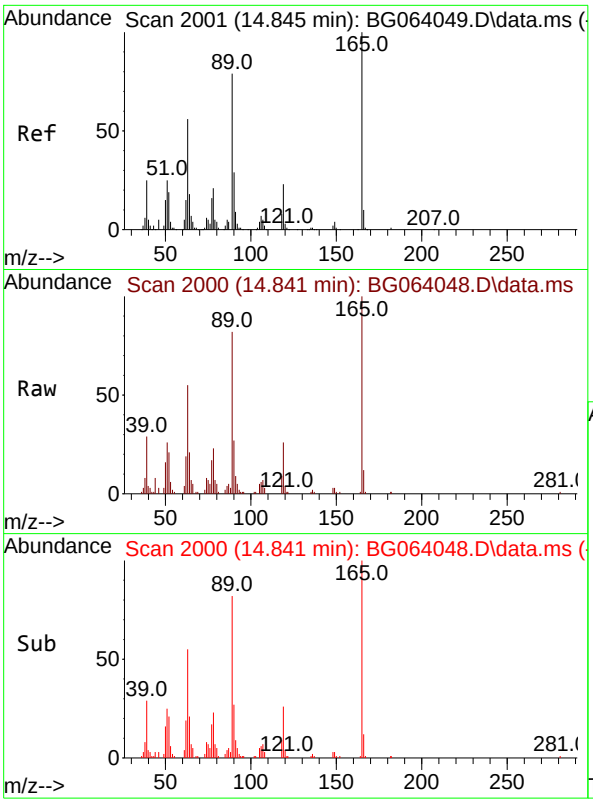


#56
4-Nitrophenol
Concen: 16.681 ng
RT: 14.683 min Scan# 1973
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:139 Resp: 20425

Ion	Ratio	Lower	Upper
139	100		
109	111.3	74.9	114.9
65	139.3	106.8	146.8

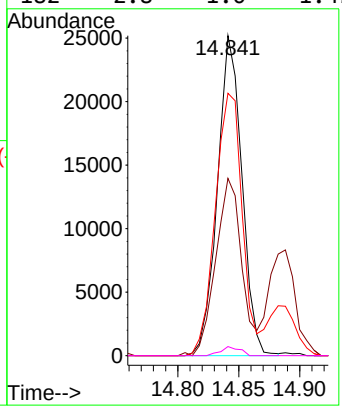




#57
2,4-Dinitrotoluene
Concen: 19.015 ng
RT: 14.841 min Scan# 2(
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:165 Resp: 3517

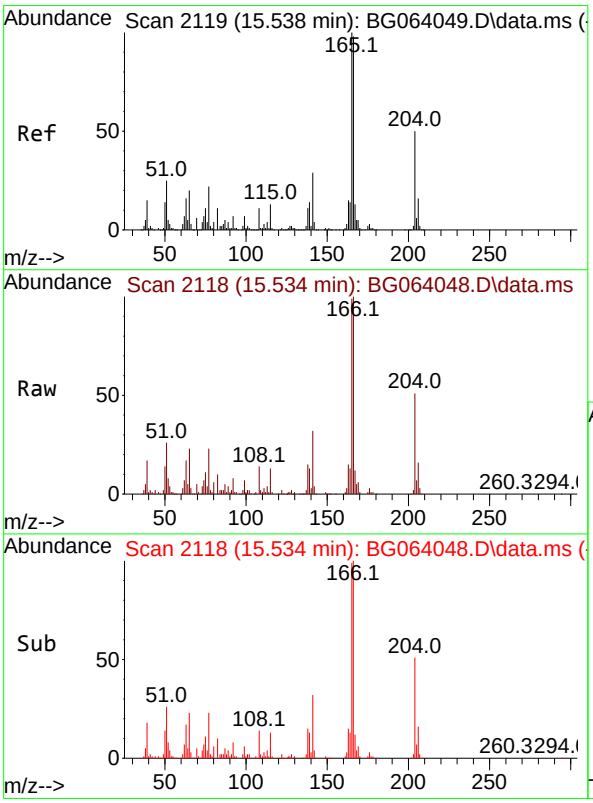
Ion	Ratio	Lower	Upper
165	100		
63	55.4	45.0	67.6
89	82.0	63.1	94.7
182	2.8	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

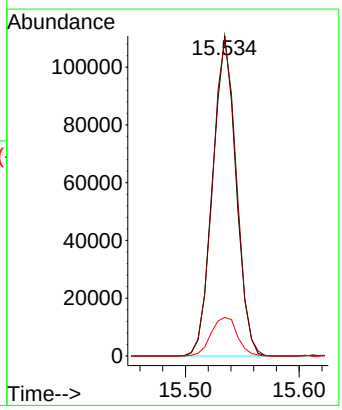
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

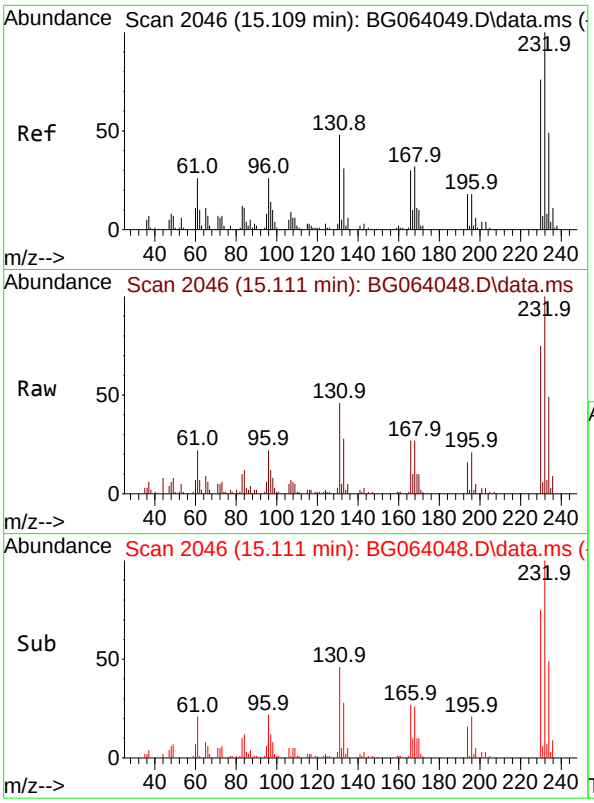


#58
Fluorene
Concen: 20.894 ng
RT: 15.534 min Scan# 2118
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:166 Resp: 157795

Ion	Ratio	Lower	Upper
166	100		
165	99.0	81.8	122.8
167	12.0	10.8	16.2

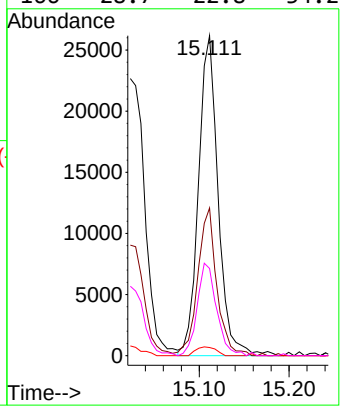




#59
2,3,4,6-Tetrachlorophenol
Concen: 21.310 ng
RT: 15.111 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:232 Resp: 3974

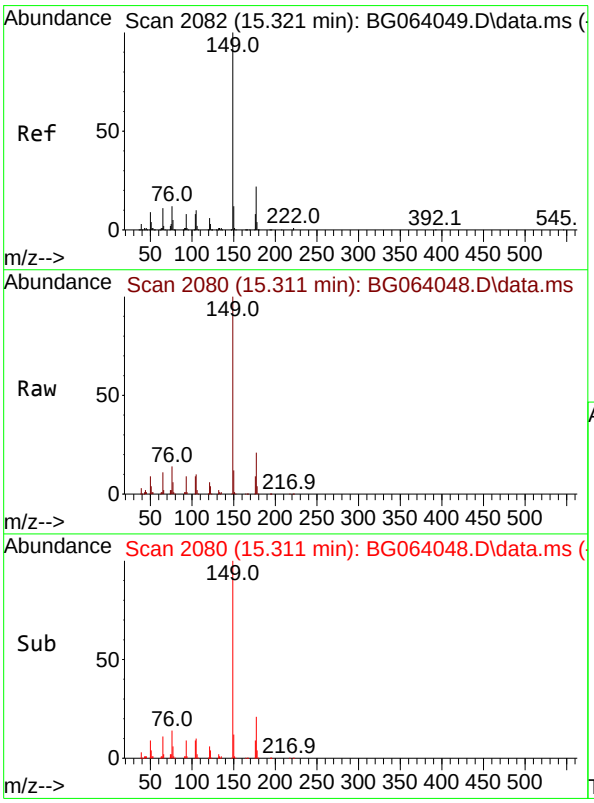
Ion	Ratio	Lower	Upper
232	100		
131	44.8	36.3	54.5
130	2.8	1.9	2.9
166	28.7	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

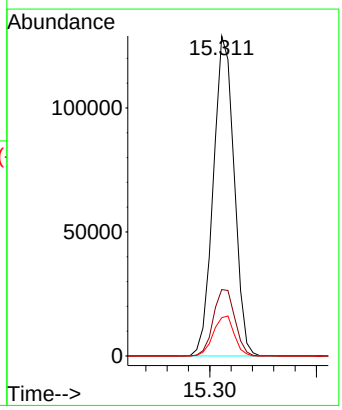
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

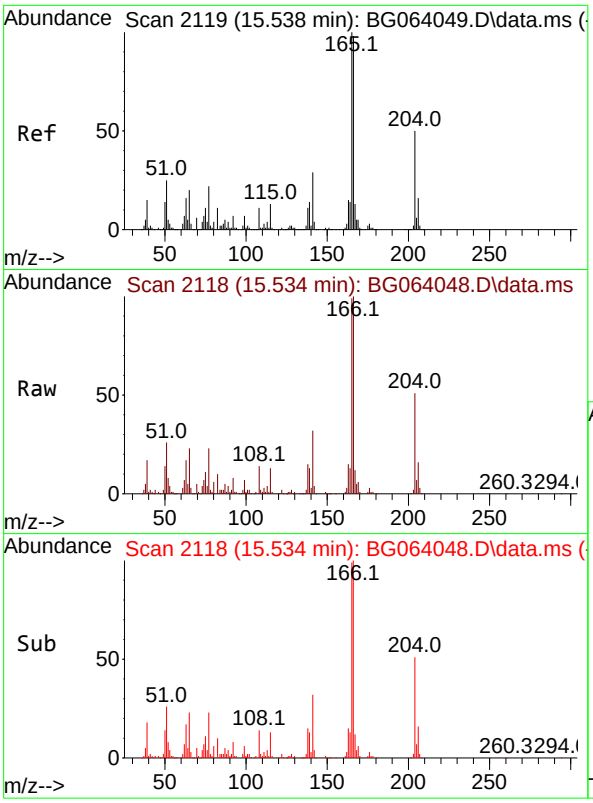


#60
Diethylphthalate
Concen: 21.324 ng
RT: 15.311 min Scan# 2080
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:149 Resp: 174872

Ion	Ratio	Lower	Upper
149	100		
177	20.7	17.4	26.2
150	12.0	9.4	14.2

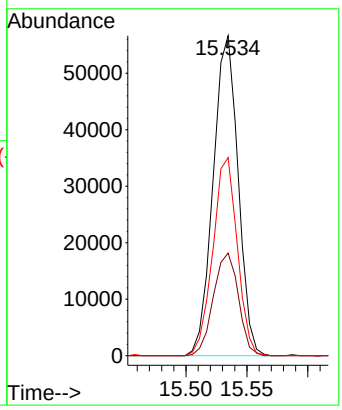




#61
4-Chlorophenyl-phenylether
Concen: 21.477 ng
RT: 15.534 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:204 Resp: 8060

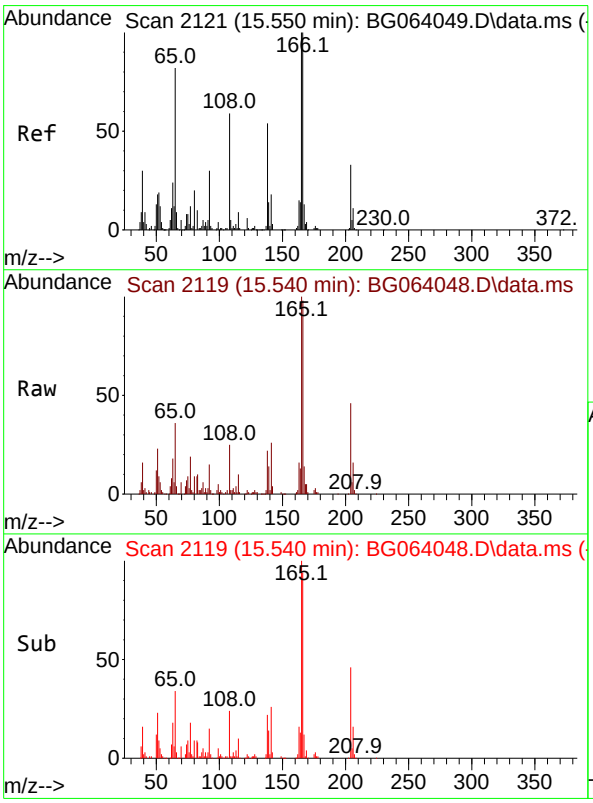
Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.5	38.3
141	61.9	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

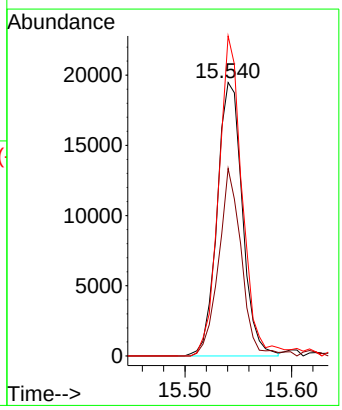
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

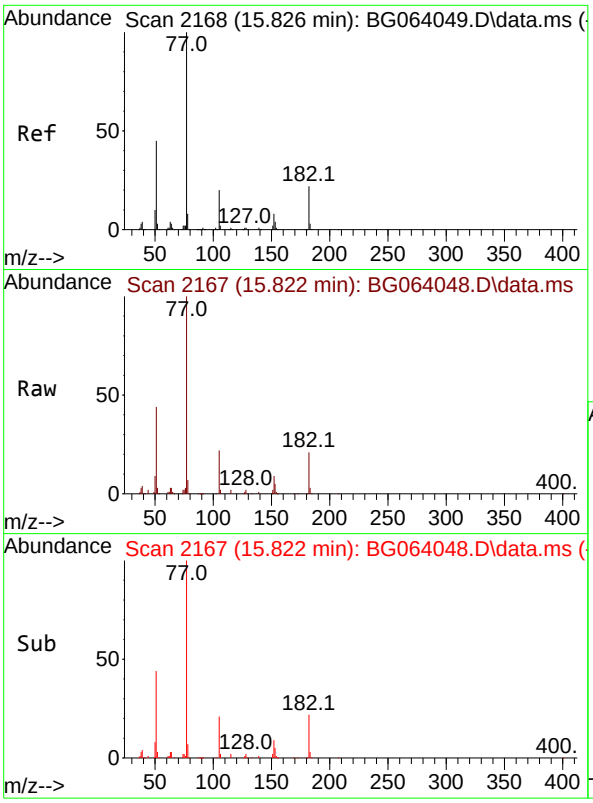


#62
4-Nitroaniline
Concen: 20.301 ng
RT: 15.540 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:138 Resp: 32000

Ion	Ratio	Lower	Upper
138	100		
92	68.6	36.1	76.1
108	117.0	87.9	127.9

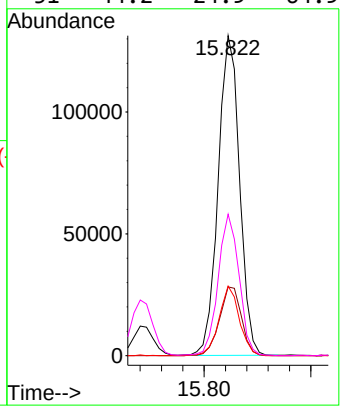




#63
Azobenzene
Concen: 20.868 ng
RT: 15.822 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion: 77 Resp: 18261

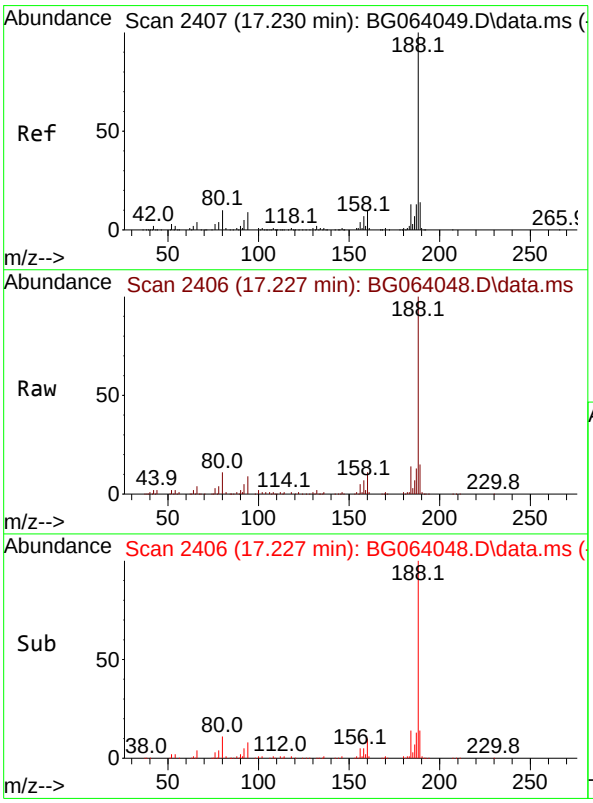
Ion	Ratio	Lower	Upper
77	100		
182	21.5	2.4	42.4
105	21.7	0.0	40.0
51	44.2	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

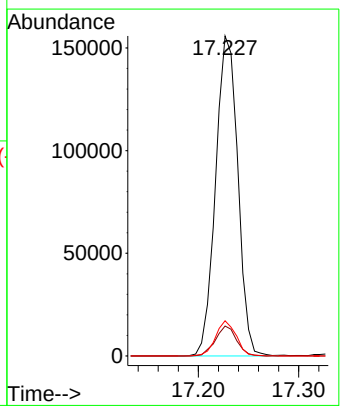
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

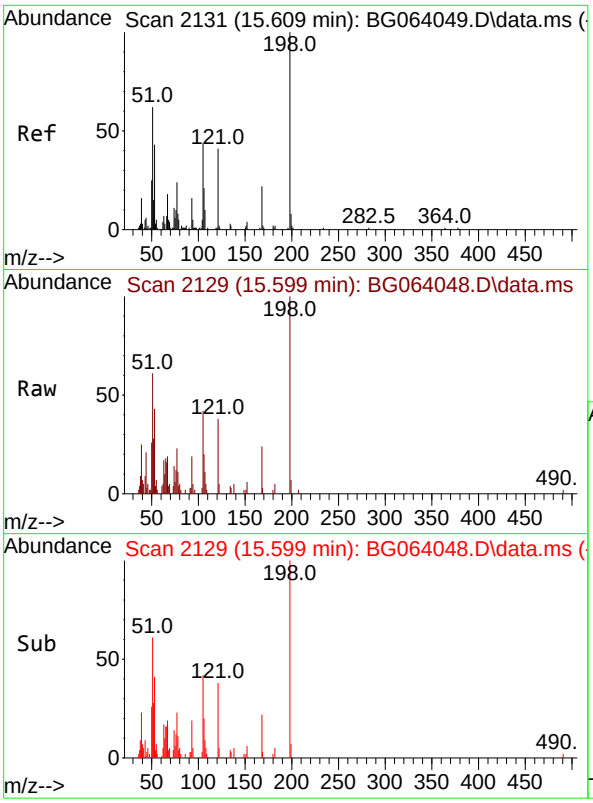


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:188 Resp: 239469

Ion	Ratio	Lower	Upper
188	100		
94	9.4	6.9	10.3
80	11.0	8.1	12.1

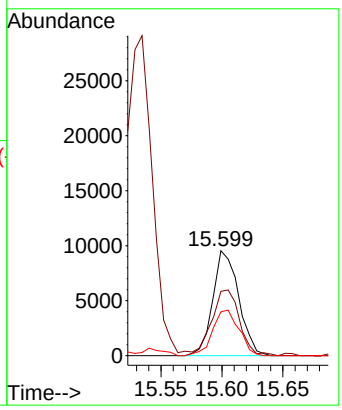




#65
4,6-Dinitro-2-methylphenol
Concen: 19.469 ng
RT: 15.599 min Scan# 2
Delta R.T. -0.010 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:198 Resp: 1407

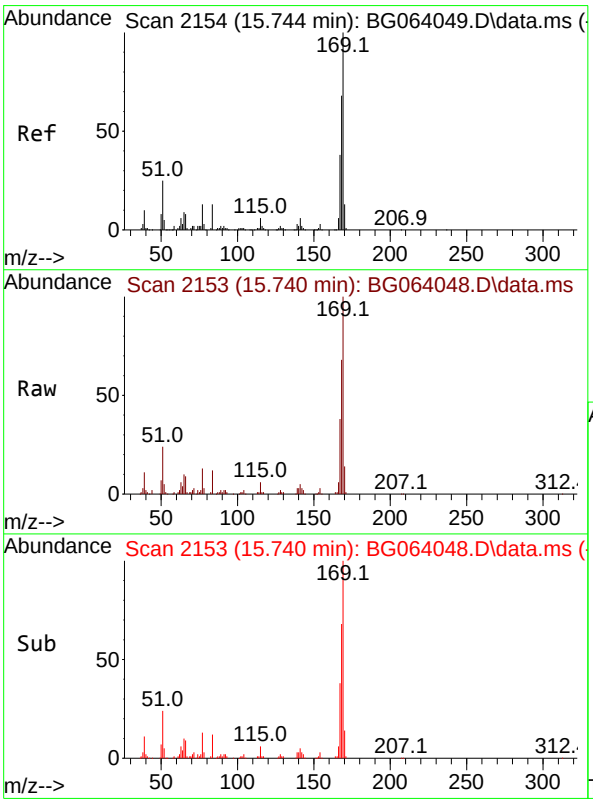
Ion	Ratio	Lower	Upper
198	100		
51	61.3	45.6	85.6
105	41.8	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

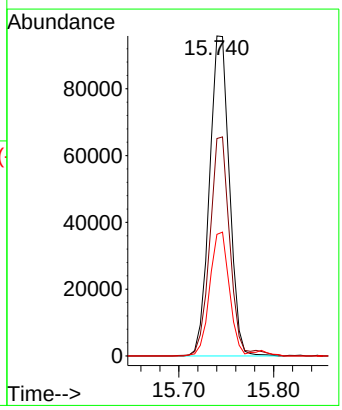
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

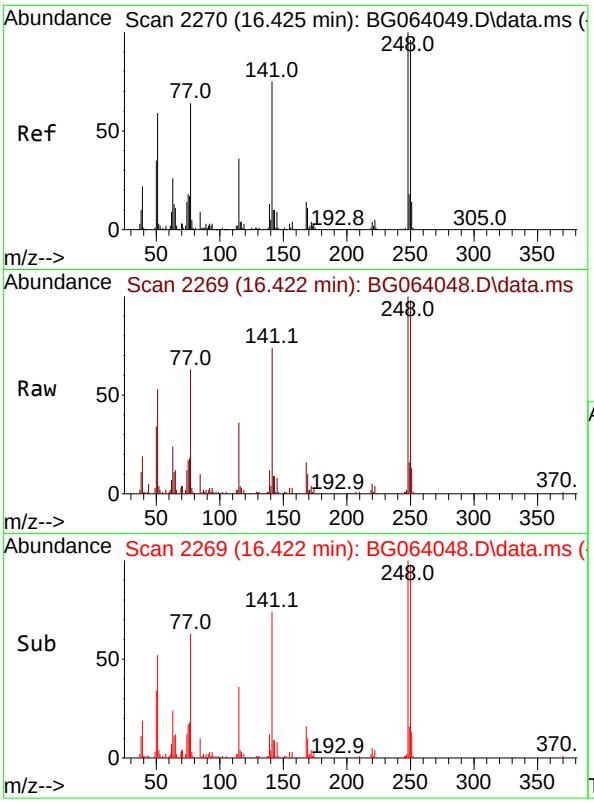


#66
n-Nitrosodiphenylamine
Concen: 20.573 ng
RT: 15.740 min Scan# 2153
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:169 Resp: 139451

Ion	Ratio	Lower	Upper
169	100		
168	68.0	54.1	81.1
167	38.0	30.3	45.5

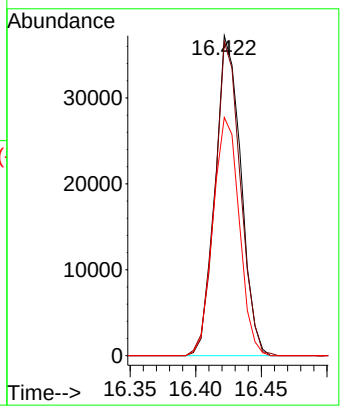




#67
4-Bromophenyl-phenylether
Concen: 20.740 ng
RT: 16.422 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:248 Resp: 5086

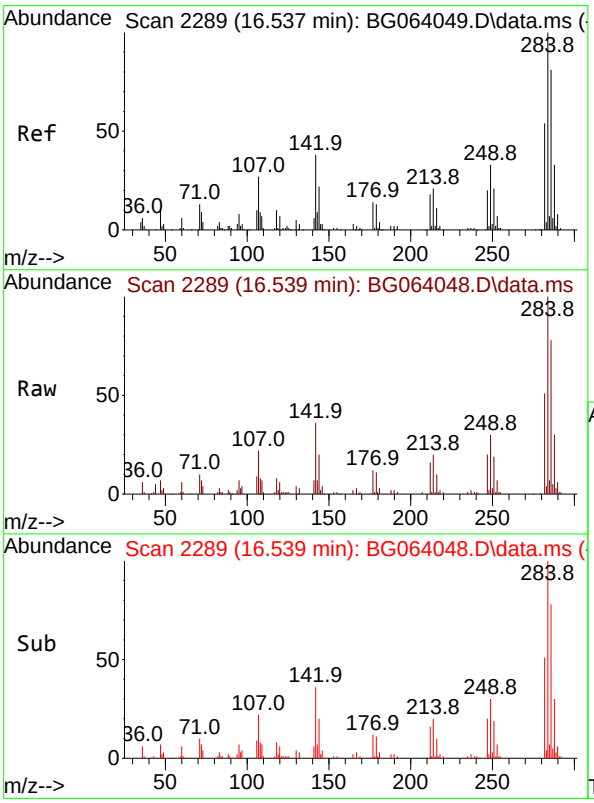
Ion	Ratio	Lower	Upper
248	100		
250	98.1	77.1	115.7
141	74.4	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

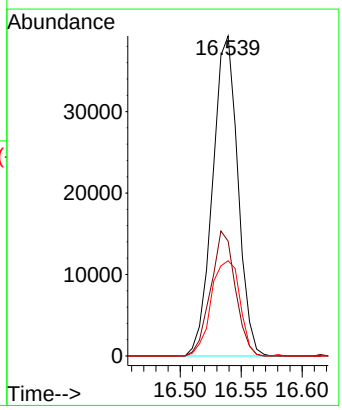
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

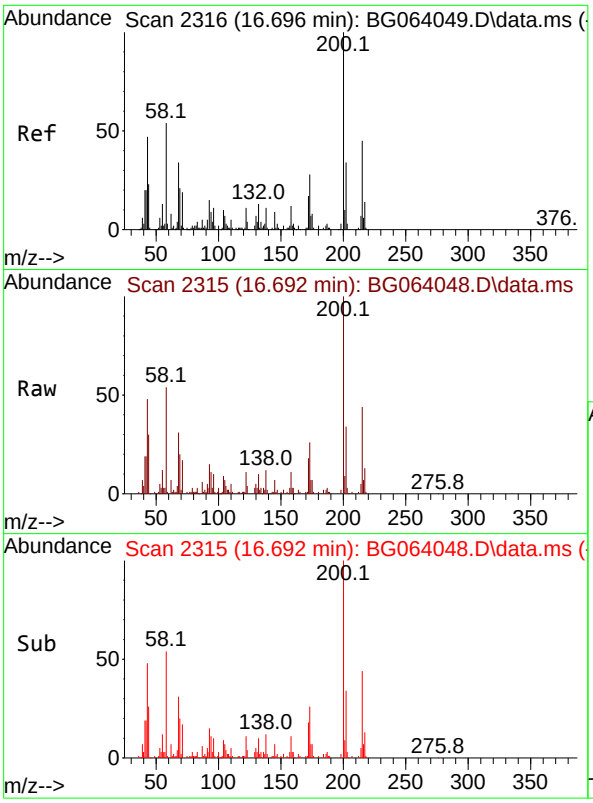


#68
Hexachlorobenzene
Concen: 20.591 ng
RT: 16.539 min Scan# 2289
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:284 Resp: 56538

Ion	Ratio	Lower	Upper
284	100		
142	35.9	30.6	45.8
249	29.8	26.6	39.8





#69
Atrazine
Concen: 21.465 ng
RT: 16.692 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

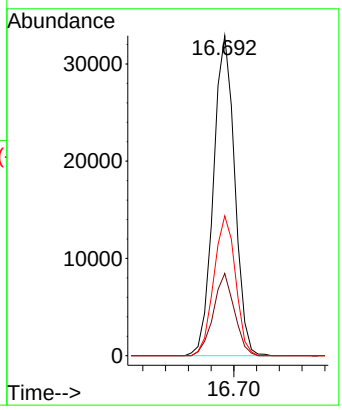
Tgt Ion:200 Resp: 4281

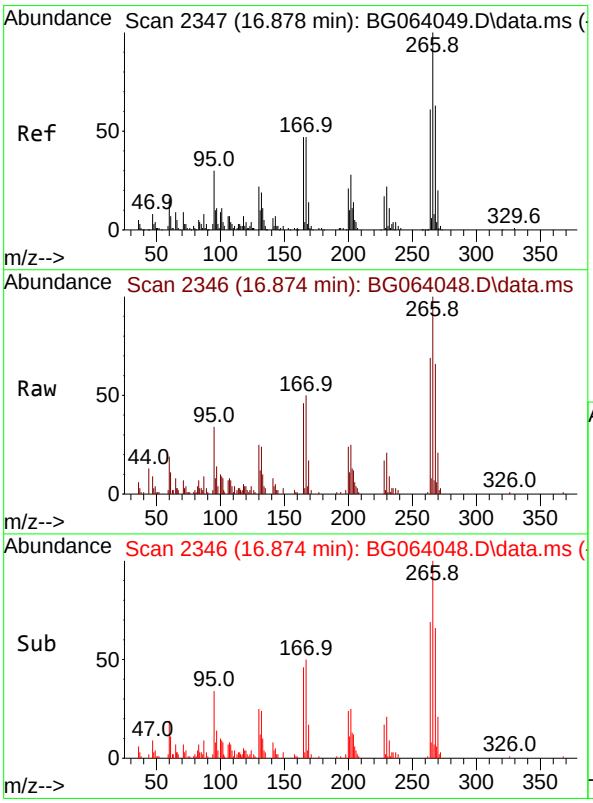
Ion	Ratio	Lower	Upper
200	100		
173	25.7	8.2	48.2
215	43.7	25.5	65.5

Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

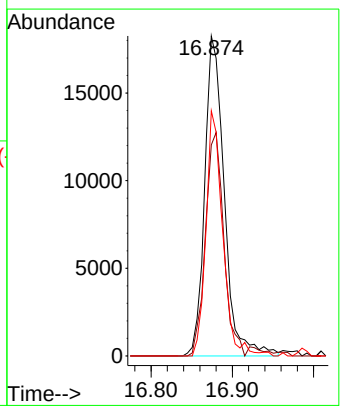


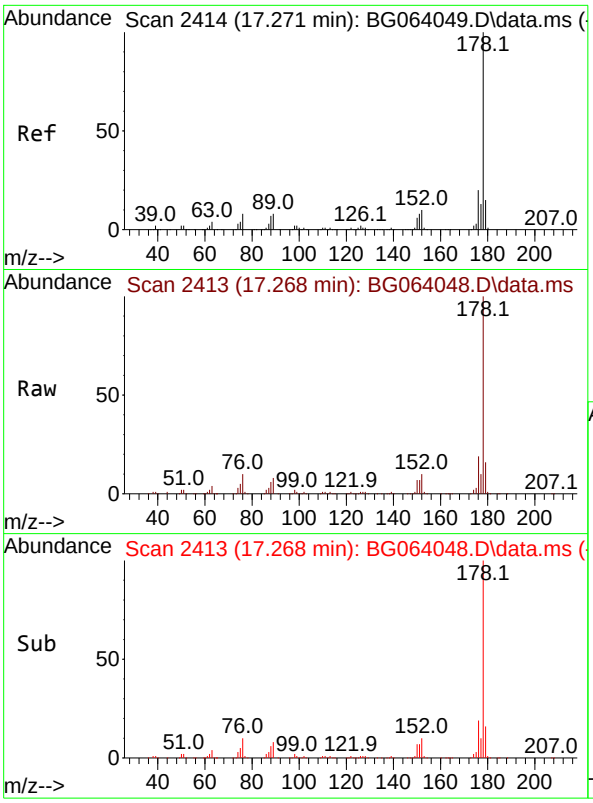


#70
Pentachlorophenol
Concen: 17.926 ng
RT: 16.874 min Scan# 2346
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:266 Resp: 30561

Ion	Ratio	Lower	Upper
266	100		
268	65.9	50.2	75.4
264	76.6	48.9	73.3#

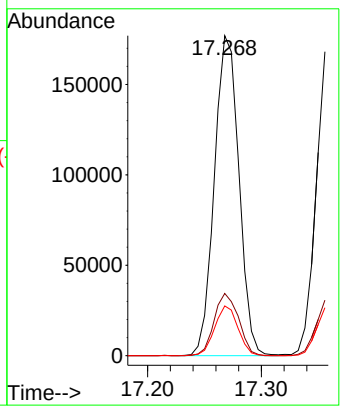




#71
Phenanthrene
Concen: 20.813 ng
RT: 17.268 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:178 Resp: 26584

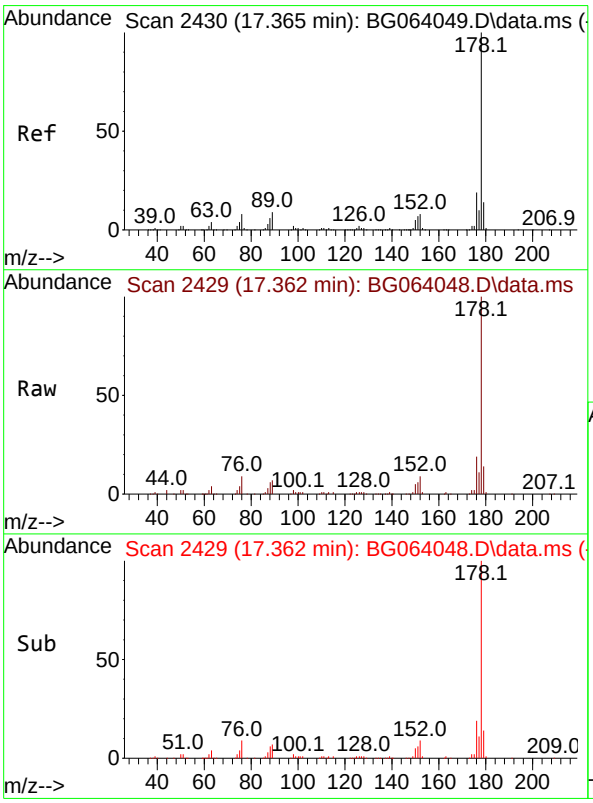
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.6	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

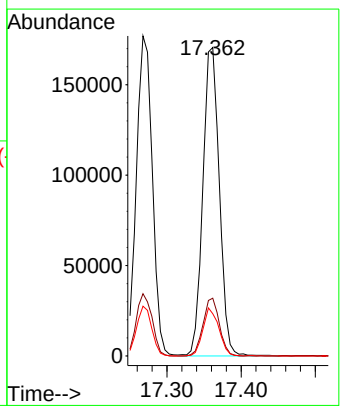
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

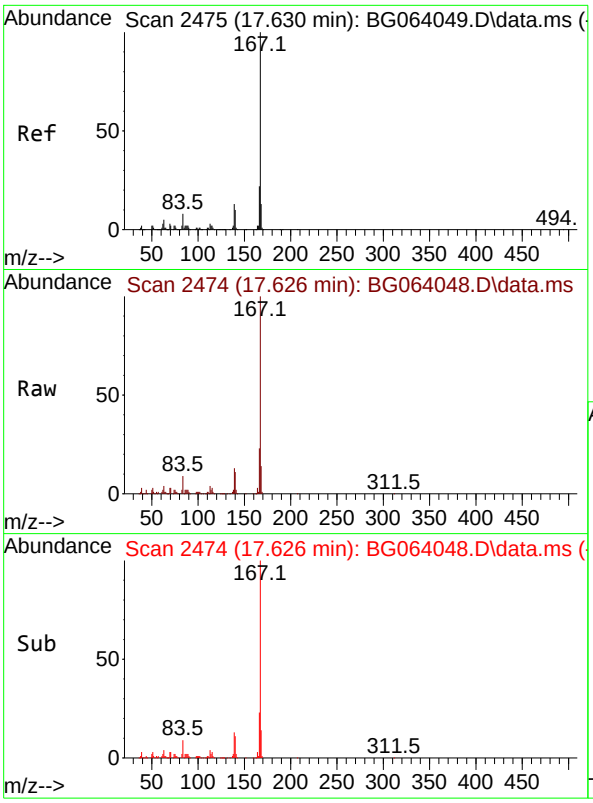


#72
Anthracene
Concen: 20.814 ng
RT: 17.362 min Scan# 2429
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:178 Resp: 264350

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.8	22.2
179	13.7	11.5	17.3

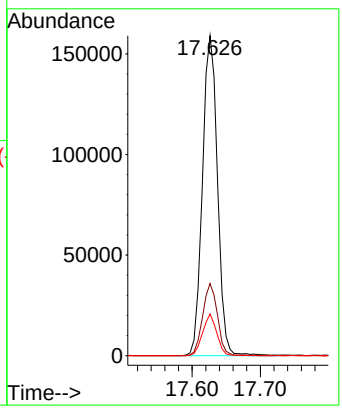




#73
Carbazole
Concen: 20.591 ng
RT: 17.626 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:167 Resp: 24416

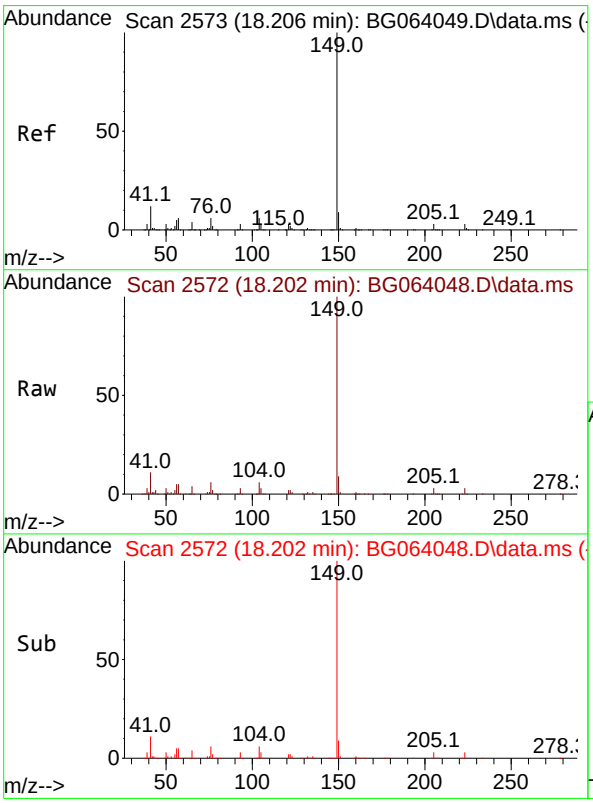
Ion	Ratio	Lower	Upper
167	100		
166	22.6	18.0	27.0
139	13.0	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

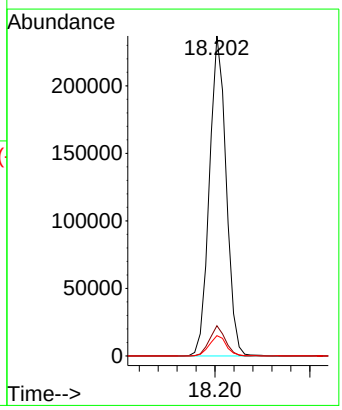
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

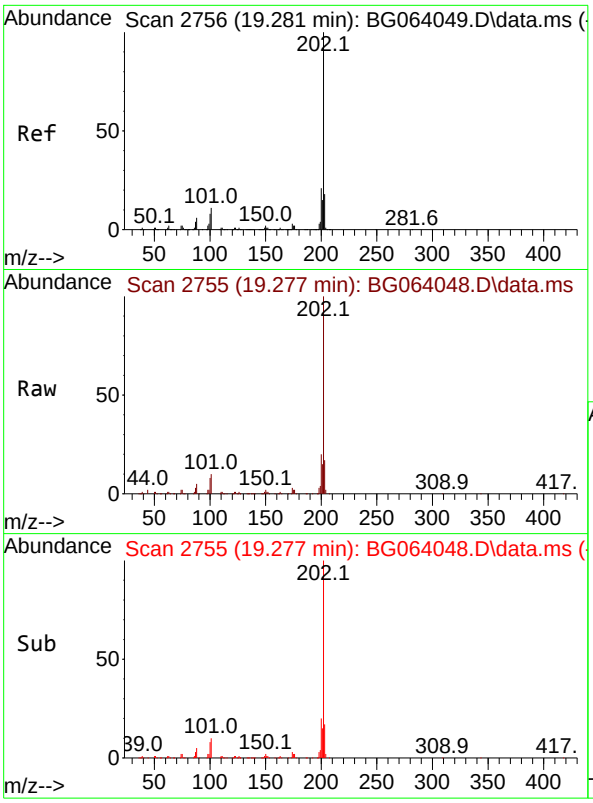


#74
Di-n-butylphthalate
Concen: 20.812 ng
RT: 18.202 min Scan# 2572
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:149 Resp: 290500

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.0
104	6.3	5.0	7.6

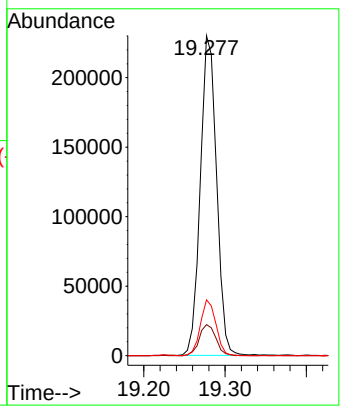




#75
Fluoranthene
Concen: 20.776 ng
RT: 19.277 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:202 Resp: 31991

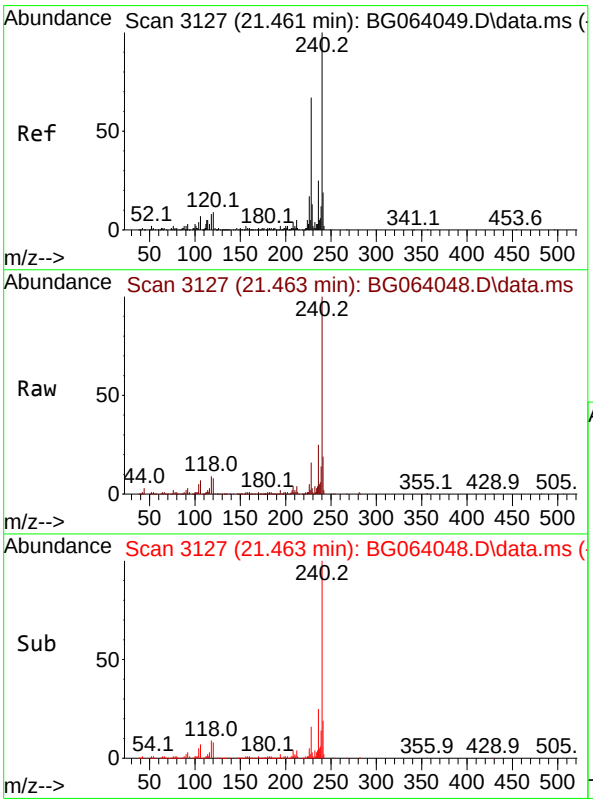
Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	30.5
203	17.4	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

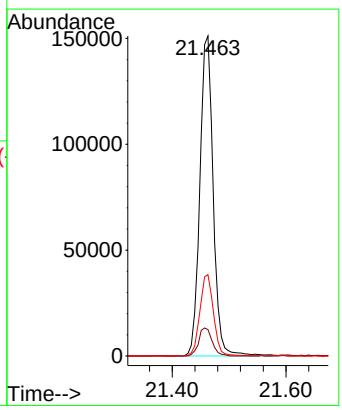
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

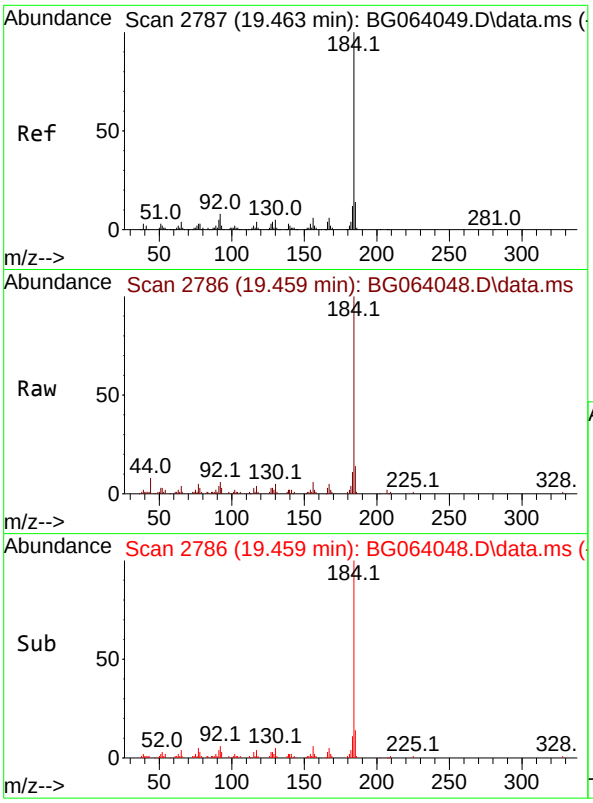


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.463 min Scan# 3127
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:240 Resp: 245725

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.2	10.8
236	25.4	20.2	30.2

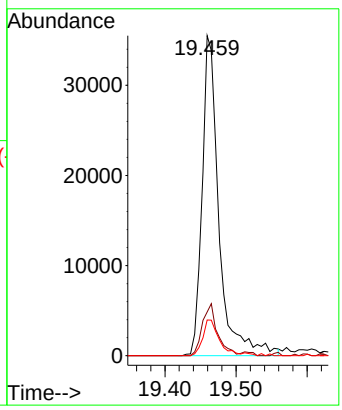




#77
Benzidine
Concen: 16.960 ng
RT: 19.459 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:184 Resp: 5850

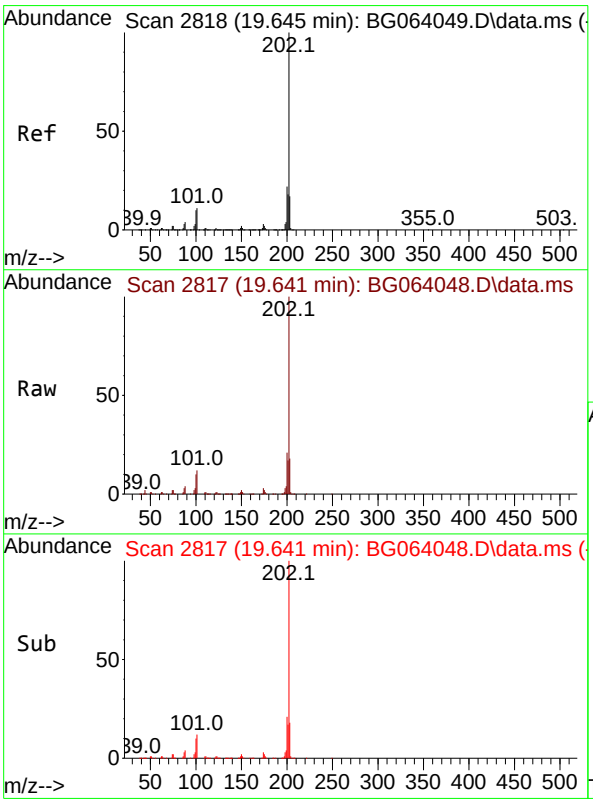
Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.3	16.9
183	11.2	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

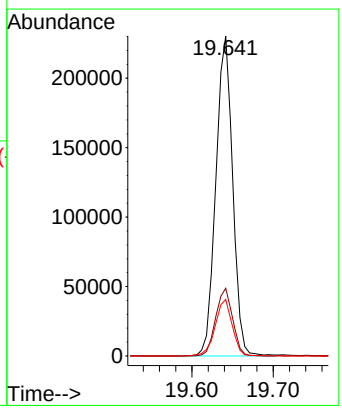
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

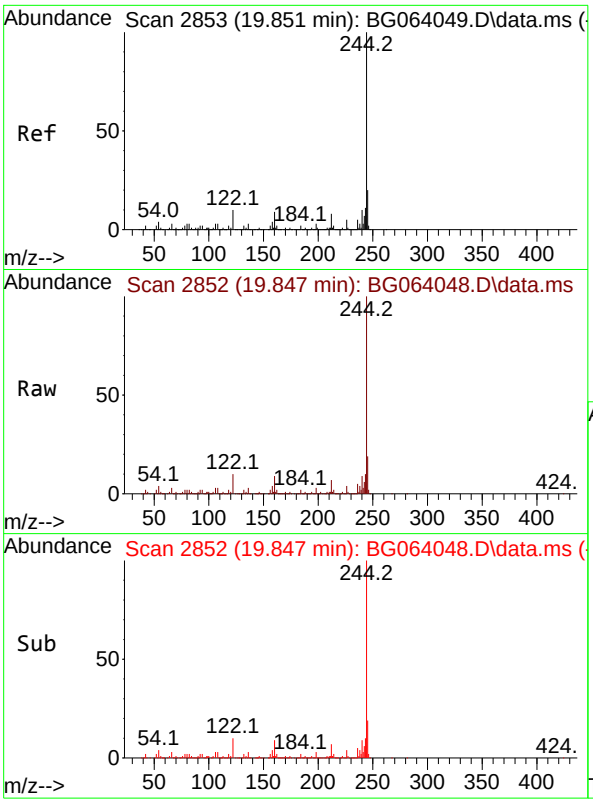


#78
Pyrene
Concen: 20.950 ng
RT: 19.641 min Scan# 2817
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:202 Resp: 331849

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9
203	17.7	13.6	20.4

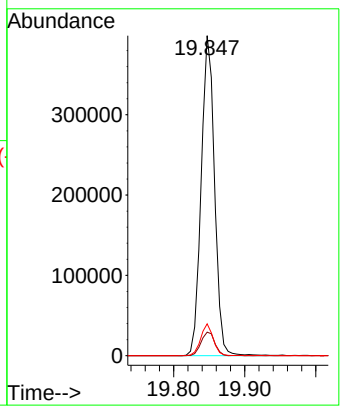




#79
Terphenyl-d14
Concen: 42.936 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:244 Resp: 52178

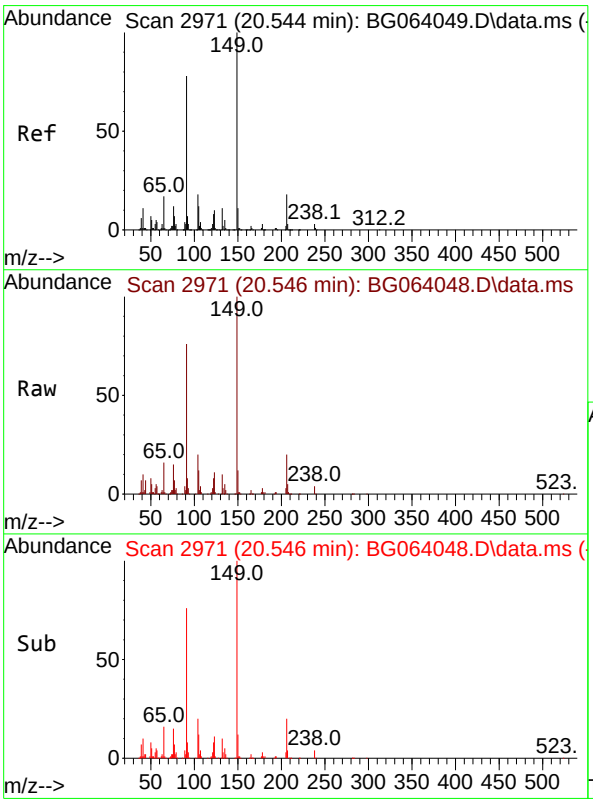
Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.2	9.4
122	10.0	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

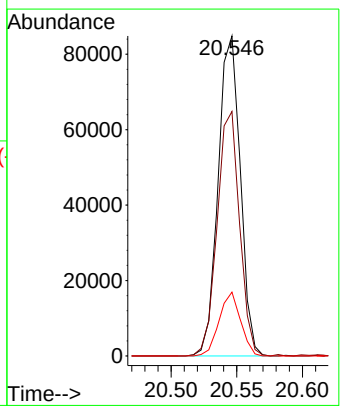
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

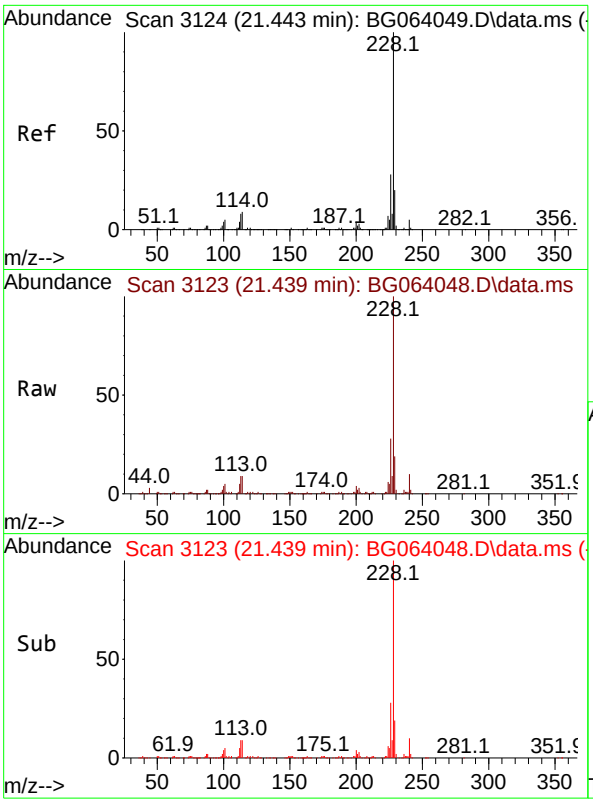


#80
Butylbenzylphthalate
Concen: 19.098 ng
RT: 20.546 min Scan# 2971
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:149 Resp: 99429

Ion	Ratio	Lower	Upper
149	100		
91	76.4	62.0	93.0
206	20.0	14.6	21.8

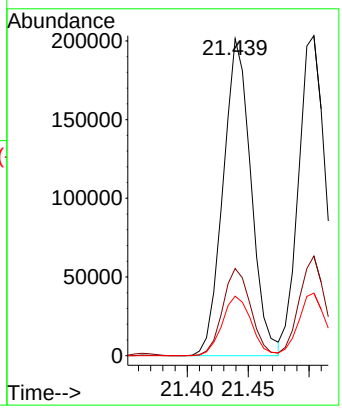




#81
Benzo(a)anthracene
Concen: 20.443 ng
RT: 21.439 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:228 Resp: 32177

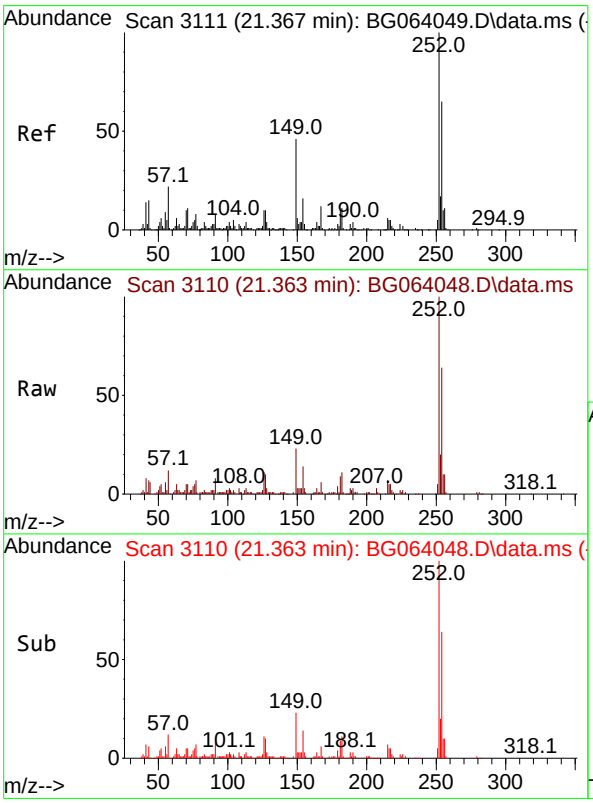
Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.2	33.2
229	18.8	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

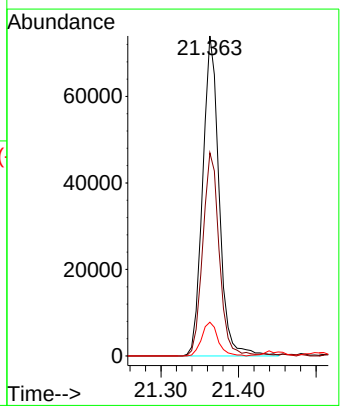
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

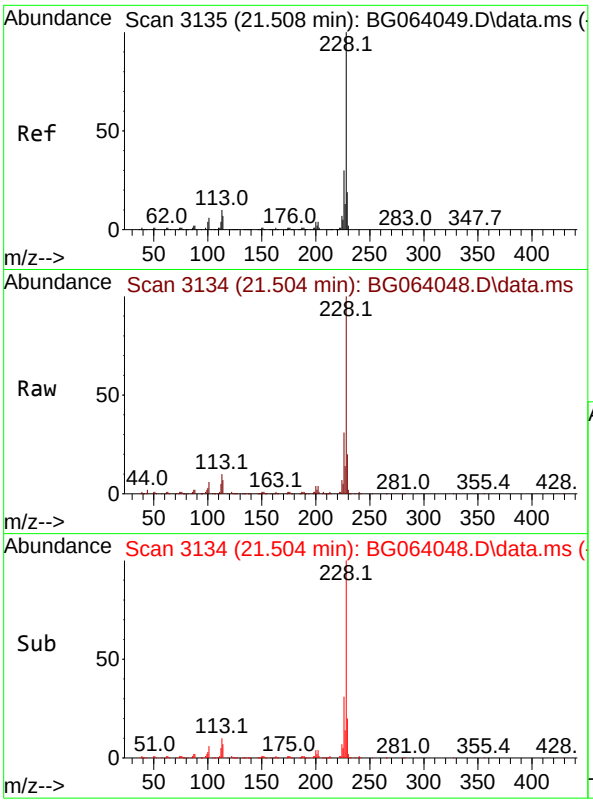


#82
3,3'-Dichlorobenzidine
Concen: 21.421 ng
RT: 21.363 min Scan# 3110
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:252 Resp: 109121

Ion	Ratio	Lower	Upper
252	100		
254	63.5	52.1	78.1
126	10.6	7.8	11.8

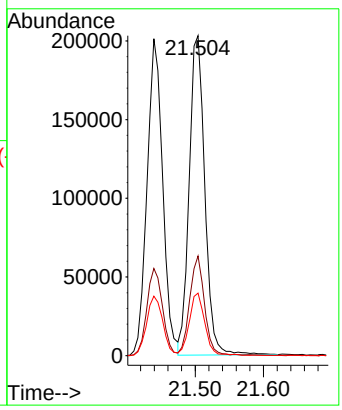




#83
Chrysene
Concen: 20.471 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:228 Resp: 32137

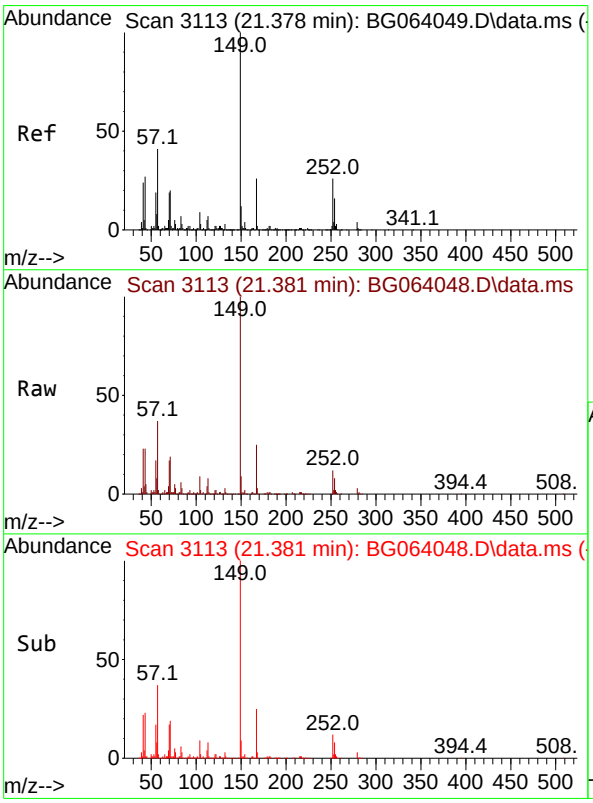
Ion	Ratio	Lower	Upper
228	100		
226	31.1	23.9	35.9
229	19.6	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

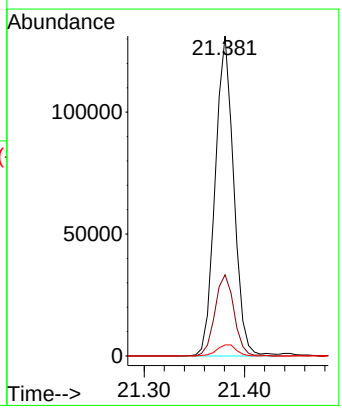
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

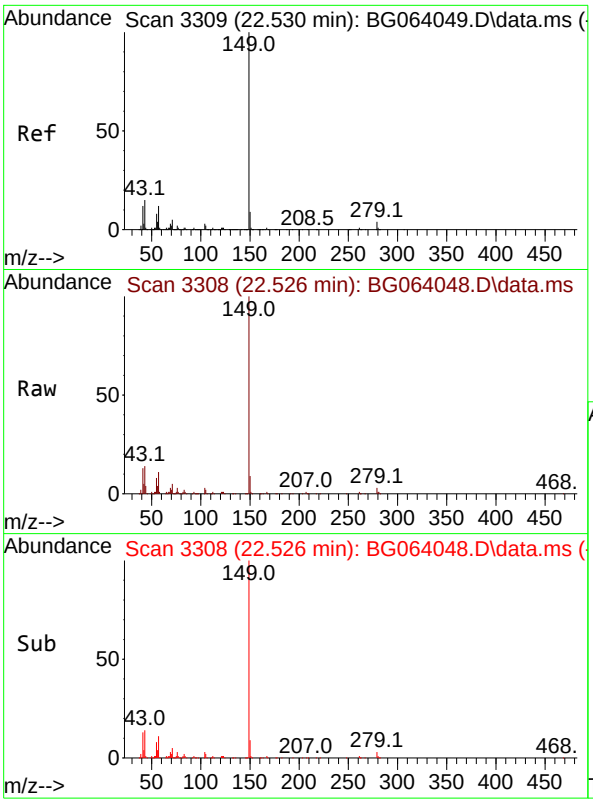


#84
Bis(2-ethylhexyl)phthalate
Concen: 19.769 ng
RT: 21.381 min Scan# 3113
Delta R.T. 0.002 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:149 Resp: 168286

Ion	Ratio	Lower	Upper
149	100		
167	25.3	21.0	31.6
279	3.5	2.8	4.2

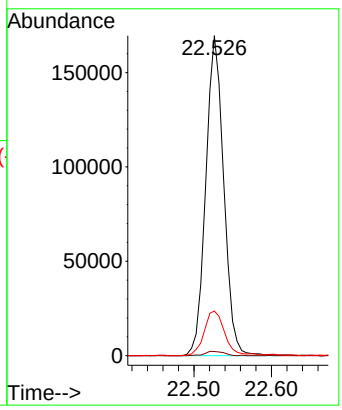




#85
Di-n-octyl phthalate
Concen: 18.542 ng
RT: 22.526 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:149 Resp: 27225

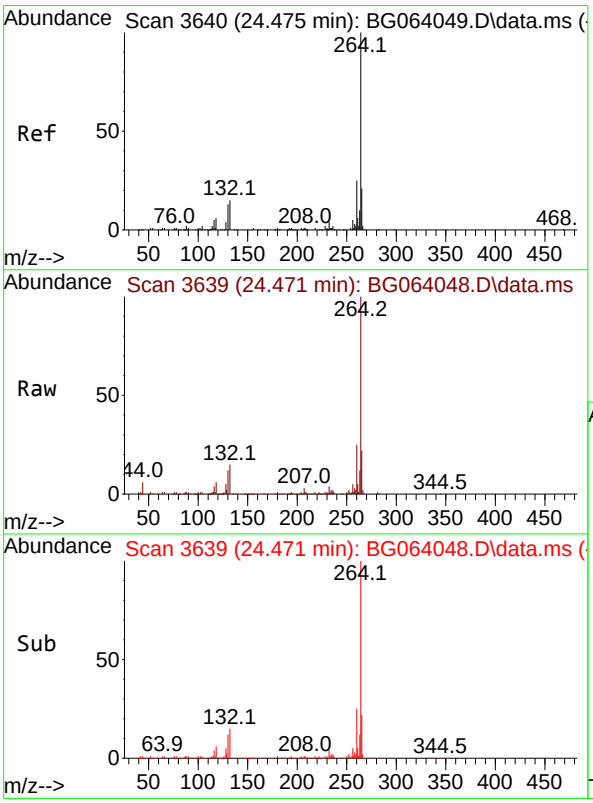
Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	16.1	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

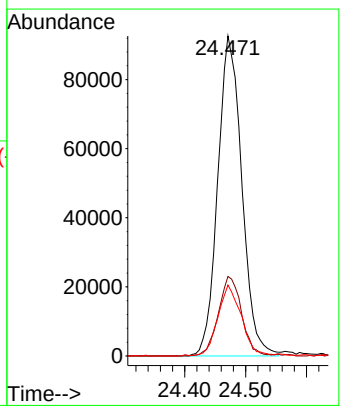
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

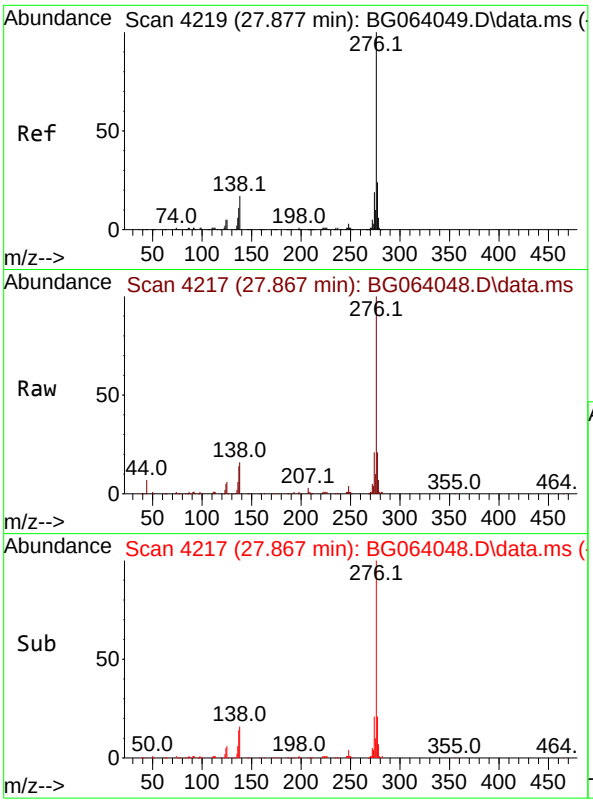


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.471 min Scan# 3639
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:264 Resp: 254102

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.6	29.4
265	22.1	16.6	25.0

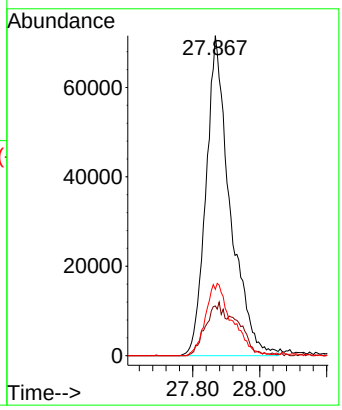




#87
Indeno(1,2,3-cd)pyrene
Concen: 21.044 ng
RT: 27.867 min Scan# 4
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:276 Resp: 35777

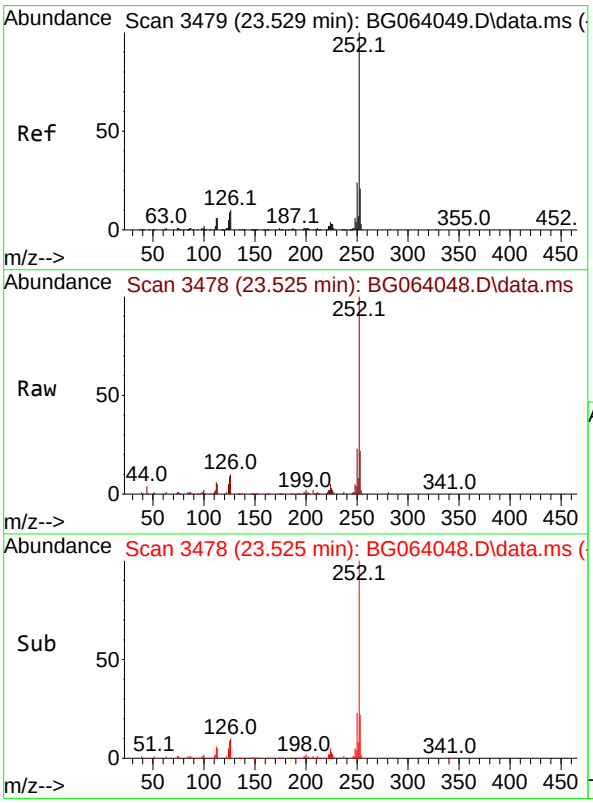
Ion	Ratio	Lower	Upper
276	100		
138	13.1	12.1	18.1
277	24.8	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

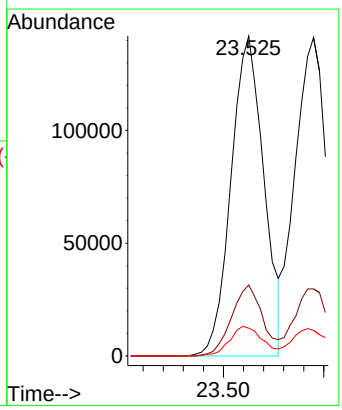
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

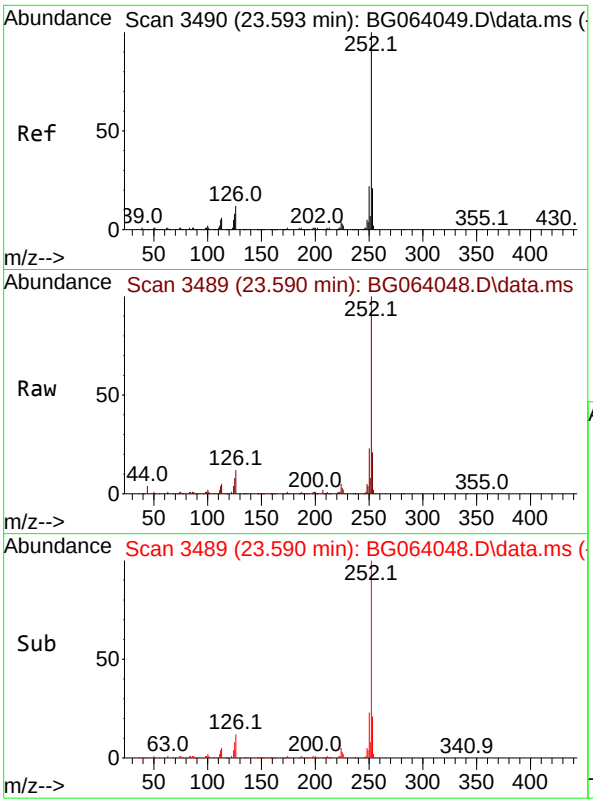


#88
Benzo(b)fluoranthene
Concen: 20.998 ng
RT: 23.525 min Scan# 3478
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:252 Resp: 322554

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.0	25.4
125	8.7	7.4	11.2

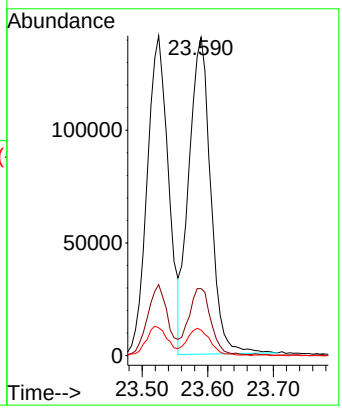




#89
Benzo(k)fluoranthene
Concen: 21.124 ng
RT: 23.590 min Scan# 34
Delta R.T. -0.004 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:252 Resp: 32553

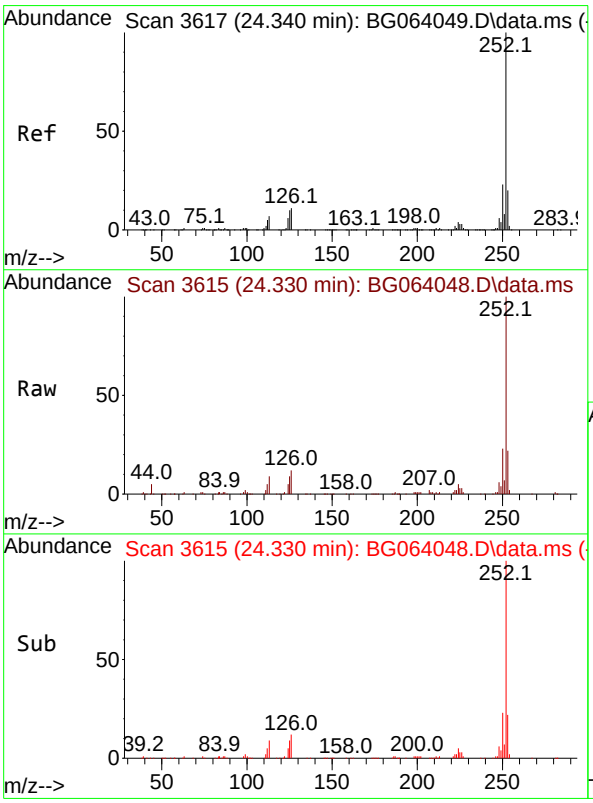
Ion	Ratio	Lower	Upper
252	100		
253	21.1	16.8	25.2
125	8.0	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

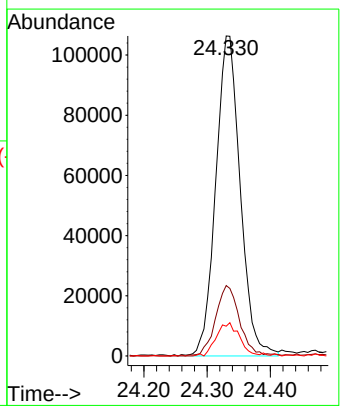
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

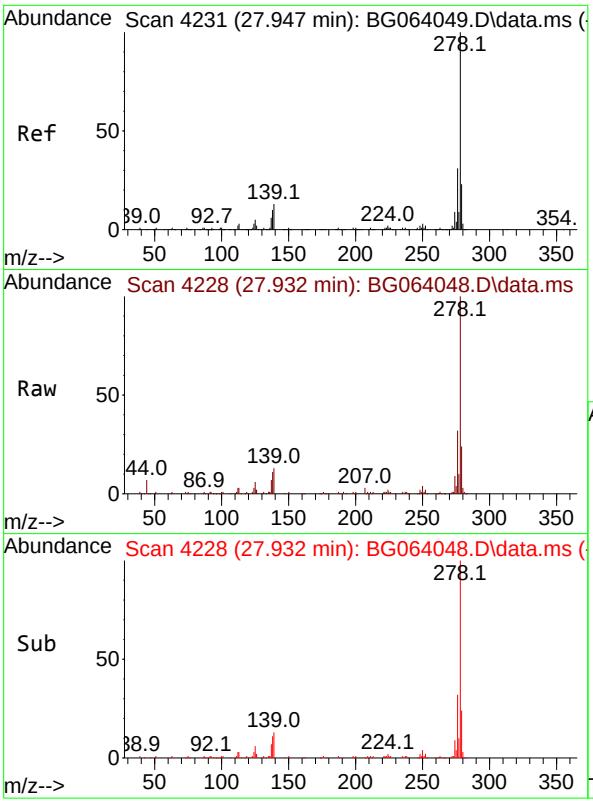


#90
Benzo(a)pyrene
Concen: 20.878 ng
RT: 24.330 min Scan# 3615
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:252 Resp: 285622

Ion	Ratio	Lower	Upper
252	100		
253	22.0	16.2	24.2
125	9.3	7.8	11.6

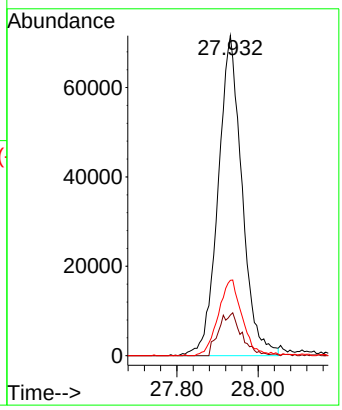




#91
Dibenzo(a,h)anthracene
Concen: 20.756 ng
RT: 27.932 min Scan# 4
Delta R.T. -0.015 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:278 Resp: 29255

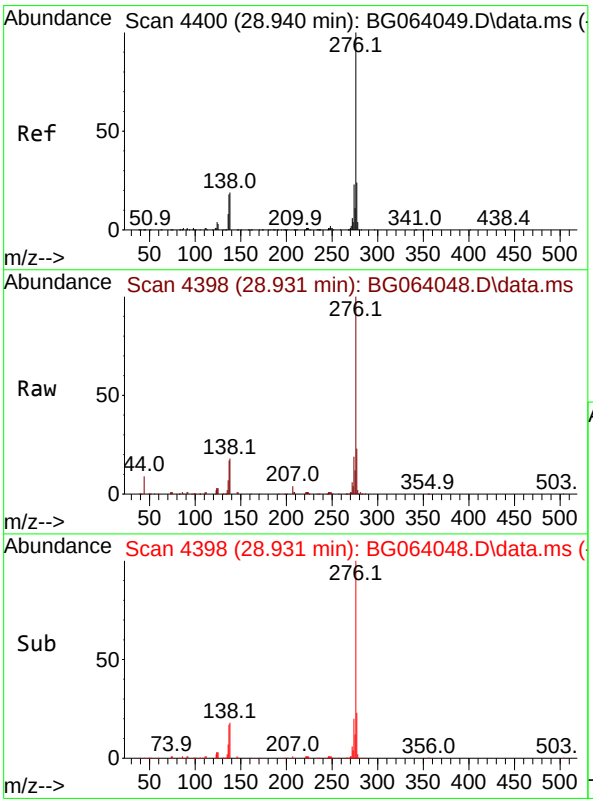
Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.2	15.2
279	23.6	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

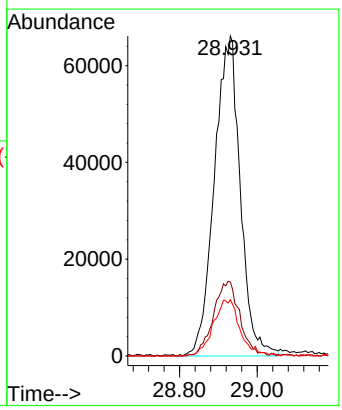
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 21.219 ng
RT: 28.931 min Scan# 4398
Delta R.T. -0.009 min
Lab File: BG064048.D
Acq: 5 Mar 2025 11:03

Tgt Ion:276 Resp: 307072

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.5	29.3
138	17.6	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064049.D
Acq On : 5 Mar 2025 11:43
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 05 15:23:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.865	152	36119	20.000	ng	0.00
21) Naphthalene-d8	10.656	136	166592	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	113406	20.000	ng	0.00
64) Phenanthrene-d10	17.230	188	259291	20.000	ng	0.00
76) Chrysene-d12	21.461	240	272676	20.000	ng	0.00
86) Perylene-d12	24.475	264	289801	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	195059	84.325	ng	0.00
7) Phenol-d6	7.030	99	267026	84.856	ng	0.00
23) Nitrobenzene-d5	9.016	82	256618	85.125	ng	0.00
42) 2,4,6-Tribromophenol	15.973	330	109187	86.616	ng	0.00
45) 2-Fluorobiphenyl	13.117	172	620339	83.029	ng	0.00
79) Terphenyl-d14	19.851	244	1089644	80.801	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.376	88	42253	40.305	ng	100
3) Pyridine	3.764	79	113639	44.572	ng	100
4) n-Nitrosodimethylamine	3.681	42	76876	42.203	ng	100
6) Aniline	7.195	93	131468	42.576	ng	100
8) 2-Chlorophenol	7.430	128	104423	42.032	ng	100
9) Benzaldehyde	7.007	77	72458	39.392	ng	100
10) Phenol	7.054	94	135869	42.171	ng	100
11) bis(2-Chloroethyl)ether	7.295	93	102203	40.462	ng	100
12) 1,3-Dichlorobenzene	7.759	146	111677	40.935	ng	100
13) 1,4-Dichlorobenzene	7.900	146	114970	41.114	ng	100
14) 1,2-Dichlorobenzene	8.217	146	109760	40.705	ng	100
15) Benzyl Alcohol	8.100	79	103751	42.666	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.399	45	237053	41.738	ng	100
17) 2-Methylphenol	8.299	107	91630	42.852	ng	100
18) Hexachloroethane	8.946	117	41682	42.603	ng	100
19) n-Nitroso-di-n-propyla...	8.670	70	95587	43.283	ng	100
20) 3+4-Methylphenols	8.629	107	123273	41.875	ng	100
22) Acetophenone	8.681	105	187490	41.048	ng	100
24) Nitrobenzene	9.057	77	132396	42.497	ng	100
25) Isophorone	9.580	82	248096	41.117	ng	100
26) 2-Nitrophenol	9.768	139	40684	39.553	ng	100
27) 2,4-Dimethylphenol	9.827	122	76114	42.079	ng	100
28) bis(2-Chloroethoxy)met...	10.068	93	147757	40.391	ng	100
29) 2,4-Dichlorophenol	10.297	162	95738	41.916	ng	100
30) 1,2,4-Trichlorobenzene	10.515	180	110636	40.125	ng	100
31) Naphthalene	10.703	128	359362	40.004	ng	100
32) Benzoic acid	9.974	122	57392m	37.004	ng	
33) 4-Chloroaniline	10.808	127	138722	42.251	ng	100
34) Hexachlorobutadiene	10.996	225	72822	40.294	ng	100
35) Caprolactam	11.578	113	36736	41.970	ng	100
36) 4-Chloro-3-methylphenol	11.931	107	124422	41.558	ng	100
37) 2-Methylnaphthalene	12.312	142	254296	40.099	ng	100
38) 1-Methylnaphthalene	12.530	142	250971	40.394	ng	100
40) 1,2,4,5-Tetrachloroben...	12.683	216	132854	41.034	ng	100
41) Hexachlorocyclopentadiene	12.665	237	39606	43.464	ng	100
43) 2,4,6-Trichlorophenol	12.918	196	81144	42.524	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064049.D
Acq On : 5 Mar 2025 11:43
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 05 15:23:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	92122	43.449	ng	100
46) 1,1'-Biphenyl	13.323	154	348881	40.719	ng	100
47) 2-Chloronaphthalene	13.364	162	255541	40.894	ng	100
48) 2-Nitroaniline	13.564	65	78919	39.603	ng	100
49) Acenaphthylene	14.210	152	405756	41.052	ng	100
50) Dimethylphthalate	13.952	163	344791	41.187	ng	100
51) 2,6-Dinitrotoluene	14.063	165	66200	39.610	ng	100
52) Acenaphthene	14.557	154	269147m	40.492	ng	
53) 3-Nitroaniline	14.386	138	71724	44.330	ng	100
54) 2,4-Dinitrophenol	14.592	184	22778	36.881	ng	100
55) Dibenzofuran	14.886	168	440253	40.970	ng	100
56) 4-Nitrophenol	14.692	139	58316	42.977	ng	100
57) 2,4-Dinitrotoluene	14.845	165	91658	39.789	ng	100
58) Fluorene	15.538	166	335238	40.055	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.109	232	89594	43.345	ng	100
60) Diethylphthalate	15.321	149	378464	41.645	ng	100
61) 4-Chlorophenyl-phenyle...	15.538	204	166615	40.061	ng	100
62) 4-Nitroaniline	15.550	138	78323	44.838	ng	100
63) Azobenzene	15.826	77	398816	41.125	ng	100
65) 4,6-Dinitro-2-methylph...	15.609	198	38647	36.802	ng	100
66) n-Nitrosodiphenylamine	15.744	169	299980	40.872	ng	100
67) 4-Bromophenyl-phenylether	16.425	248	109095	41.081	ng	100
68) Hexachlorobenzene	16.537	284	118787	39.954	ng	100
69) Atrazine	16.696	200	82729	38.309	ng	100
70) Pentachlorophenol	16.878	266	77264	41.856	ng	100
71) Phenanthrene	17.271	178	560184	40.505	ng	100
72) Anthracene	17.365	178	562891	40.932	ng	100
73) Carbazole	17.630	167	532467	41.470	ng	100
74) Di-n-butylphthalate	18.206	149	652013	43.141	ng	100
75) Fluoranthene	19.281	202	683664	41.004	ng	100
77) Benzidine	19.463	184	170880	44.641	ng	100
78) Pyrene	19.645	202	714571	40.653	ng	100
80) Butylbenzylphthalate	20.544	149	253637	39.178	ng	100
81) Benzo(a)anthracene	21.443	228	710573	40.681	ng	100
82) 3,3'-Dichlorobenzidine	21.367	252	245252	43.385	ng	100
83) Chrysene	21.508	228	712310	40.888	ng	100
84) Bis(2-ethylhexyl)phtha...	21.378	149	412893	43.709	ng	100
85) Di-n-octyl phthalate	22.530	149	675516	41.459	ng	100
87) Indeno(1,2,3-cd)pyrene	27.877	276	797387	41.124	ng	100
88) Benzo(b)fluoranthene	23.529	252	704588	40.217	ng	100
89) Benzo(k)fluoranthene	23.593	252	727467	41.391	ng	100
90) Benzo(a)pyrene	24.340	252	641802	41.134	ng	100
91) Dibenzo(a,h)anthracene	27.947	278	656435	40.836	ng	100
92) Benzo(g,h,i)perylene	28.940	276	667911	40.469	ng	100

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

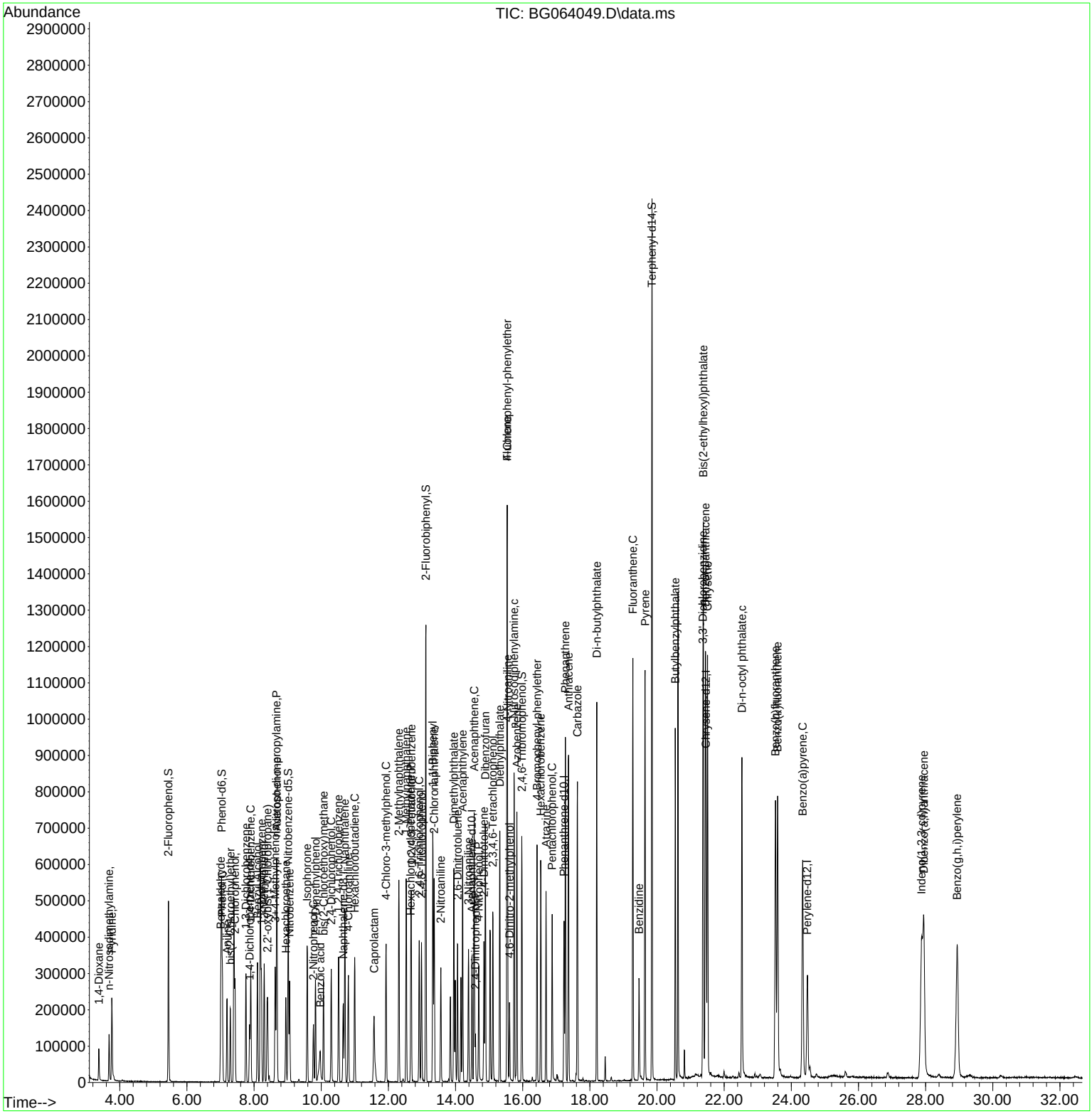
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064049.D
Acq On : 5 Mar 2025 11:43
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

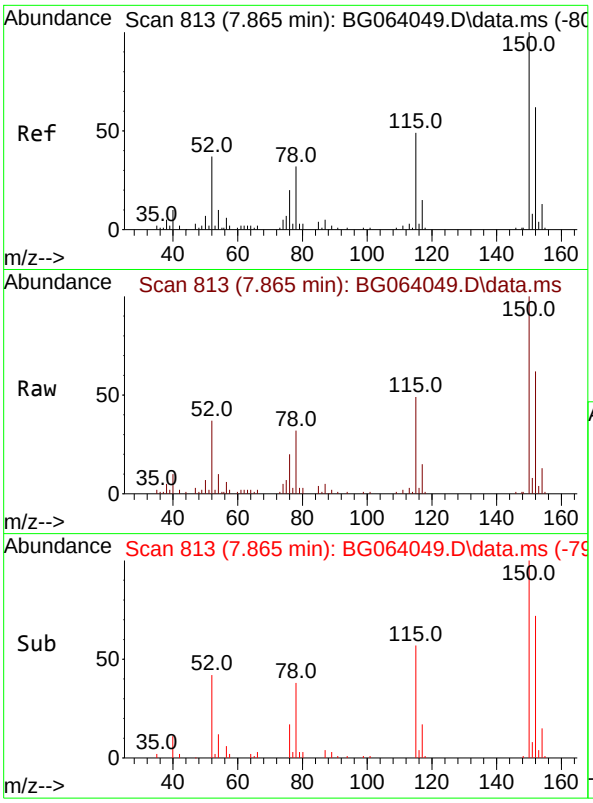
Quant Time: Mar 05 15:23:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

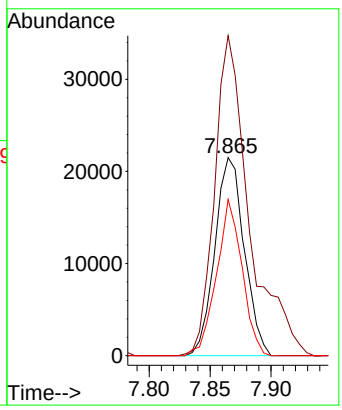




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:152 Resp: 3611

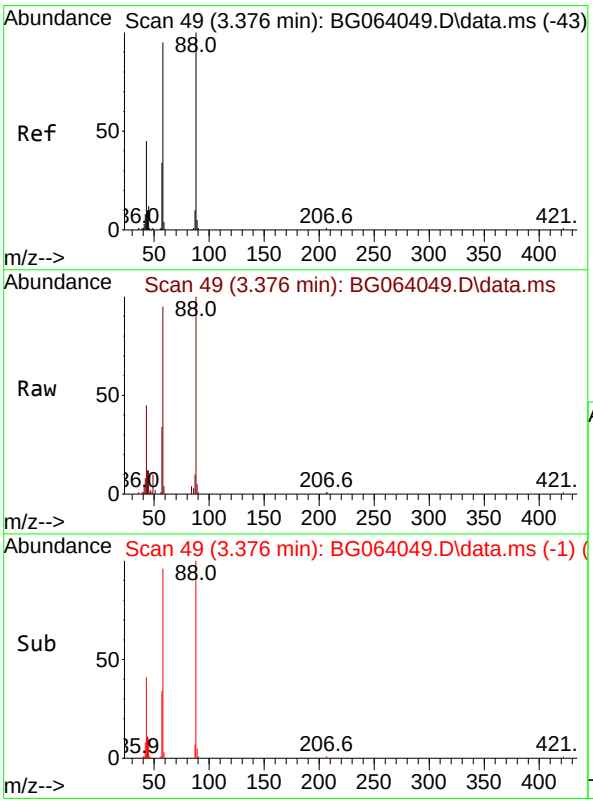
Ion	Ratio	Lower	Upper
152	100		
150	161.5	129.2	193.8
115	78.8	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

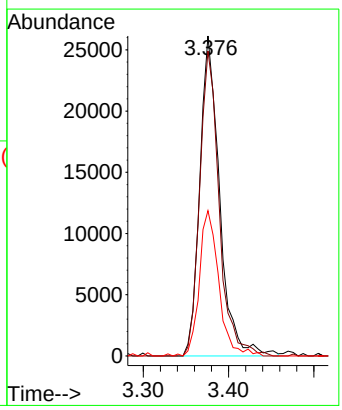
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

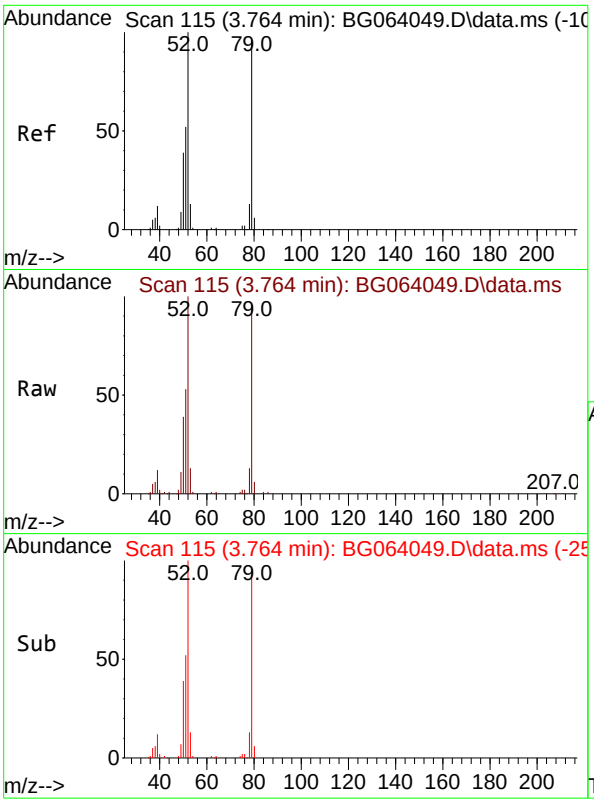


#2
1,4-Dioxane
Concen: 40.305 ng
RT: 3.376 min Scan# 49
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 88 Resp: 42253

Ion	Ratio	Lower	Upper
88	100		
58	93.2	74.6	111.8
43	44.4	35.5	53.3

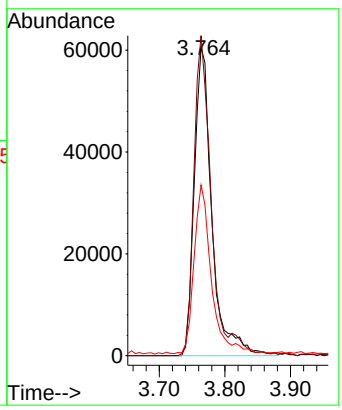




#3
Pyridine
Concen: 44.572 ng
RT: 3.764 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 79 Resp: 11363

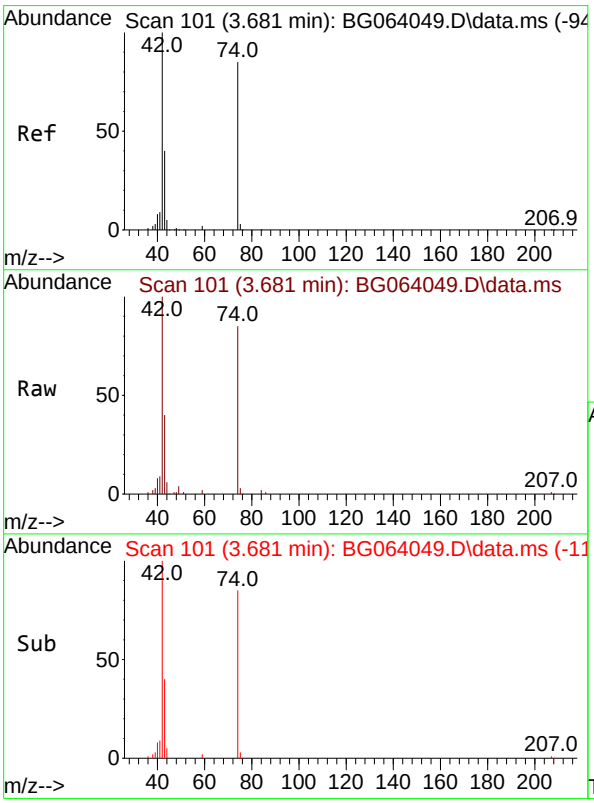
Ion	Ratio	Lower	Upper
79	100		
52	103.8	83.0	124.6
51	55.4	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

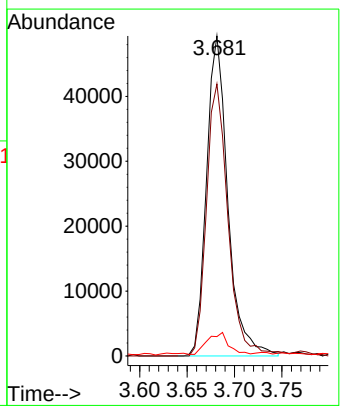
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

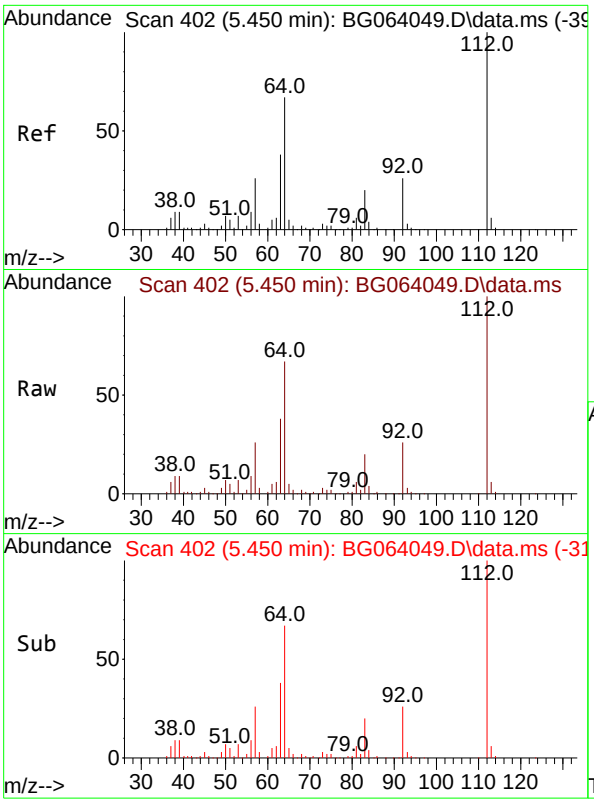


#4
n-Nitrosodimethylamine
Concen: 42.203 ng
RT: 3.681 min Scan# 101
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 42 Resp: 76876

Ion	Ratio	Lower	Upper
42	100		
74	85.0	68.0	102.0
44	6.1	4.9	7.3

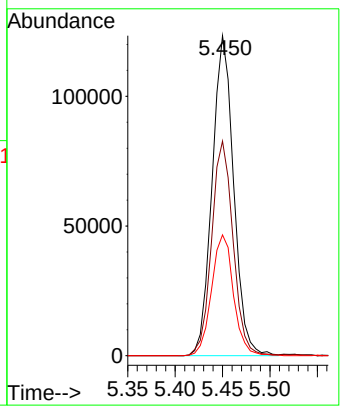




#5
2-Fluorophenol
Concen: 84.325 ng
RT: 5.450 min Scan# 4
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:112 Resp: 19505

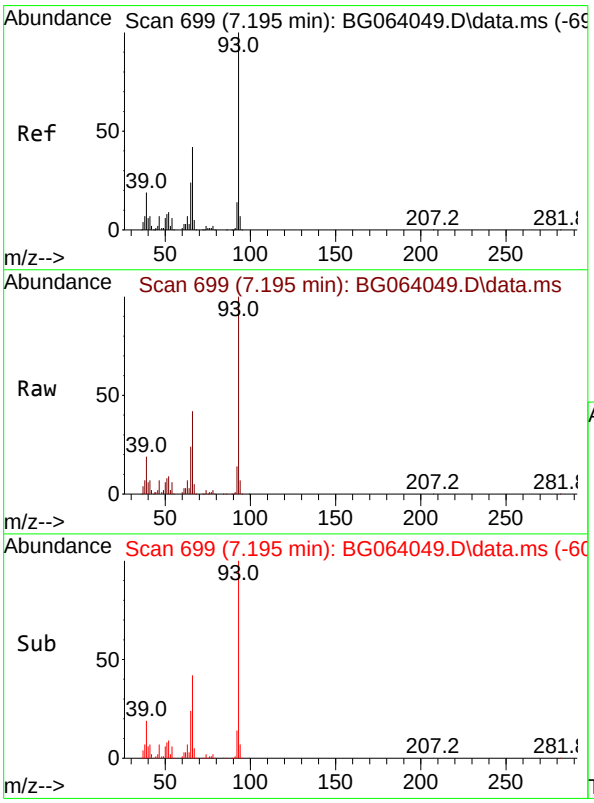
Ion	Ratio	Lower	Upper
112	100		
64	67.1	53.7	80.5
63	37.8	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

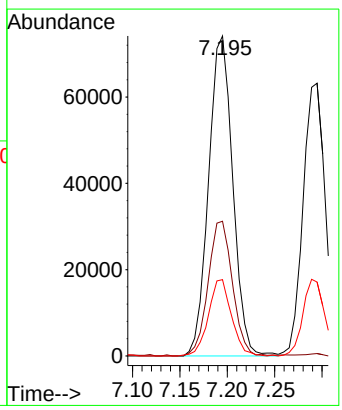
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

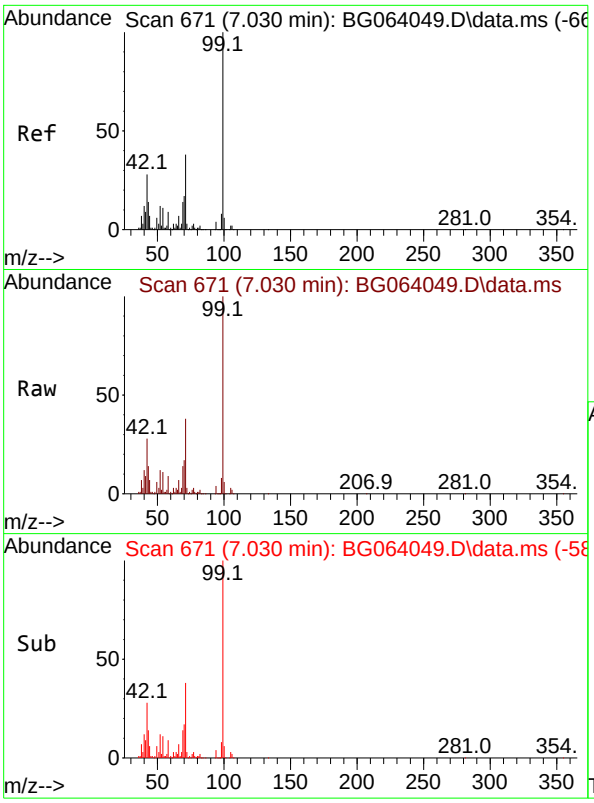


#6
Aniline
Concen: 42.576 ng
RT: 7.195 min Scan# 699
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 93 Resp: 131468

Ion	Ratio	Lower	Upper
93	100		
66	42.1	33.7	50.5
65	23.9	19.1	28.7

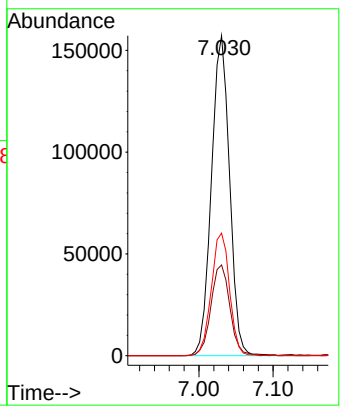




#7
Phenol-d6
Concen: 84.856 ng
RT: 7.030 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 99 Resp: 26702

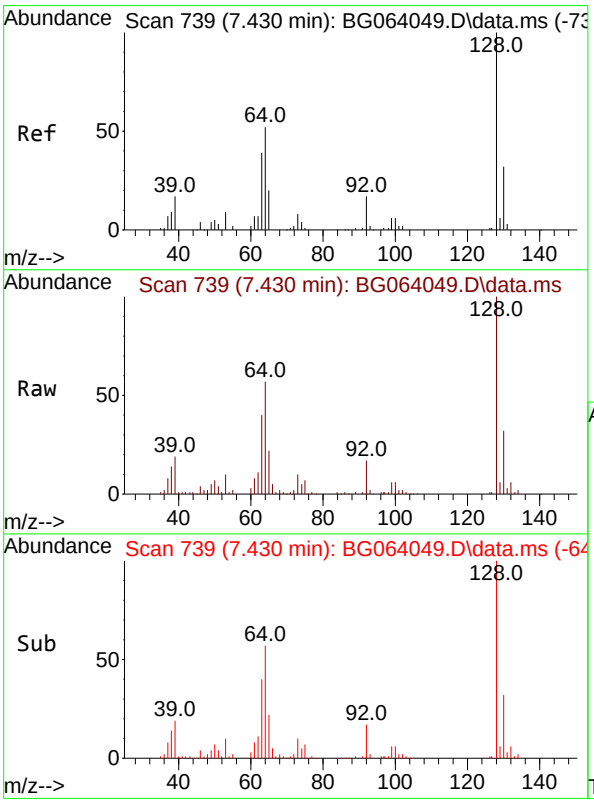
Ion	Ratio	Lower	Upper
99	100		
42	28.4	22.7	34.1
71	38.3	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

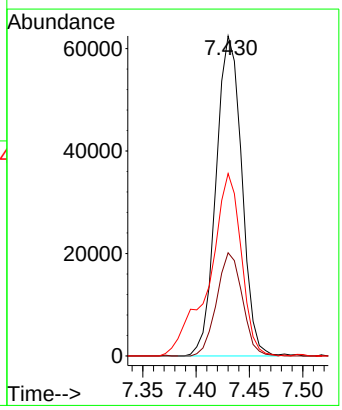
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

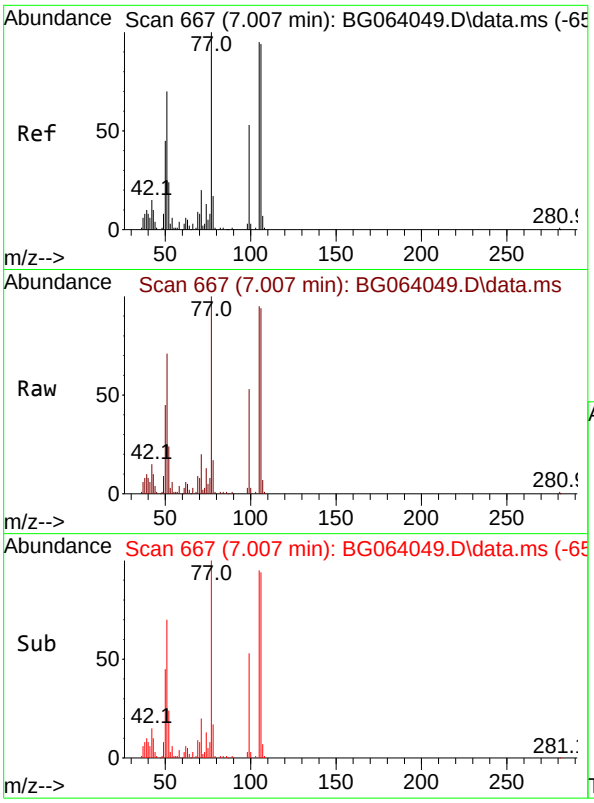


#8
2-Chlorophenol
Concen: 42.032 ng
RT: 7.430 min Scan# 739
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:128 Resp: 104423

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.3	52.3
64	57.0	37.0	77.0

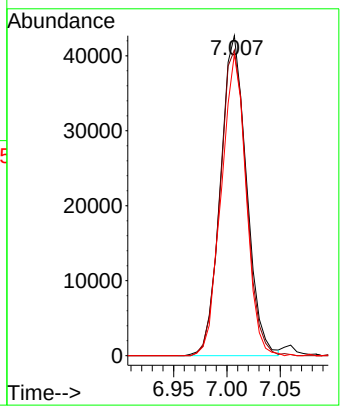




#9
Benzaldehyde
Concen: 39.392 ng
RT: 7.007 min Scan# 6
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 77 Resp: 7245

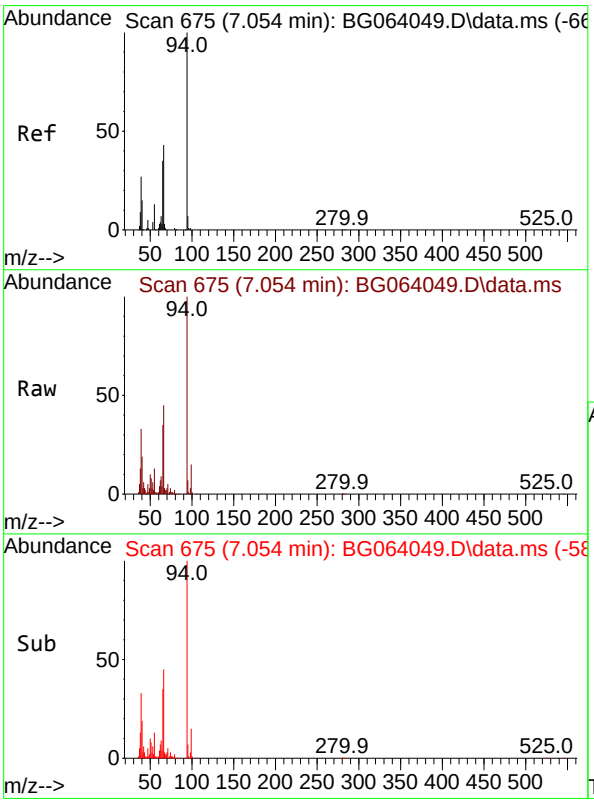
Ion	Ratio	Lower	Upper
77	100		
105	95.5	75.5	115.5
106	94.2	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

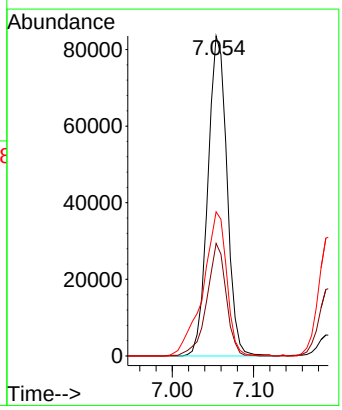
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

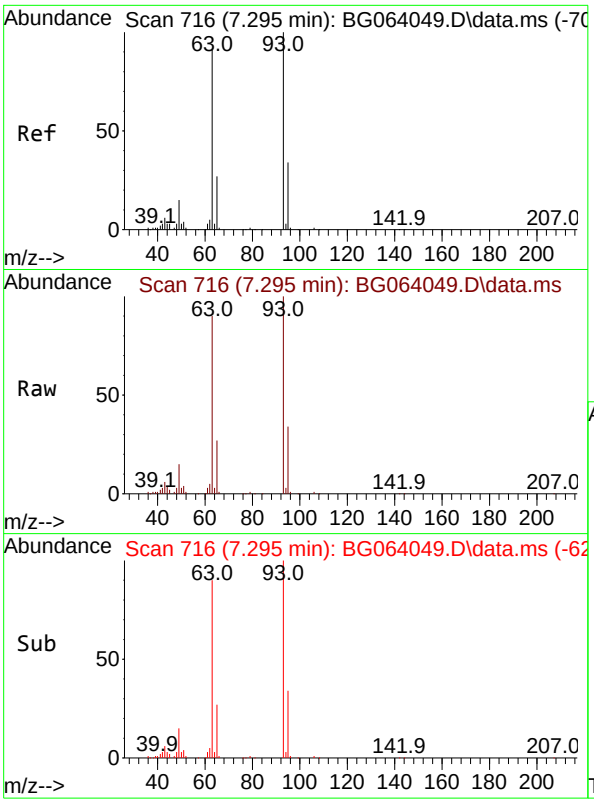


#10
Phenol
Concen: 42.171 ng
RT: 7.054 min Scan# 675
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 94 Resp: 135869

Ion	Ratio	Lower	Upper
94	100		
65	35.2	15.2	55.2
66	45.1	25.1	65.1

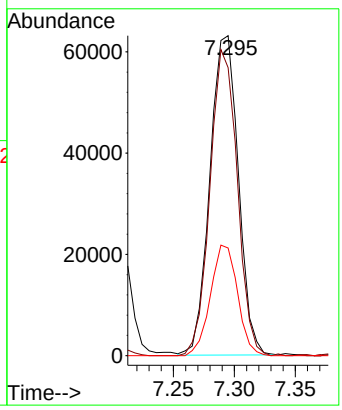




#11
bis(2-Chloroethyl)ether
Concen: 40.462 ng
RT: 7.295 min Scan# 7
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 93 Resp: 10220

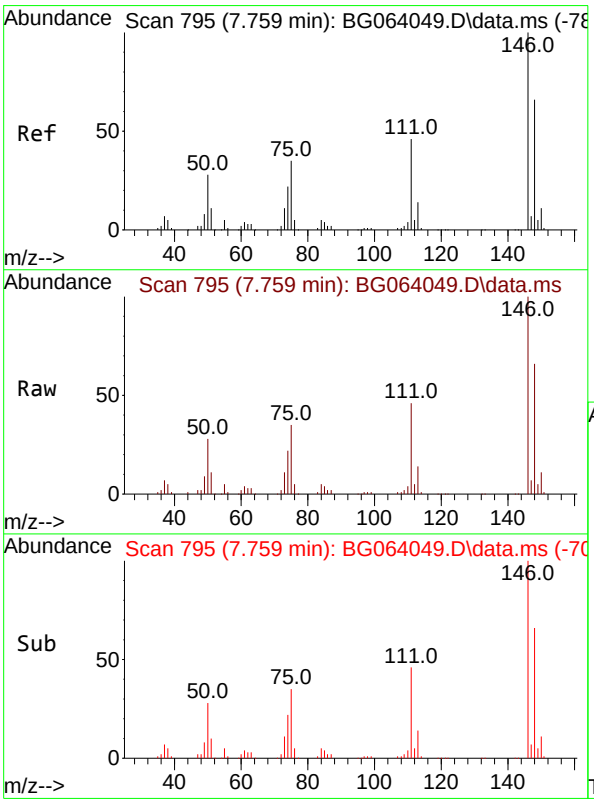
Ion	Ratio	Lower	Upper
93	100		
63	90.0	70.0	110.0
95	33.7	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

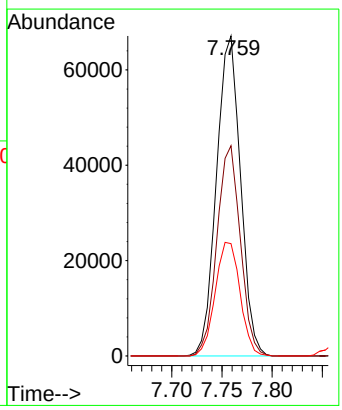
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

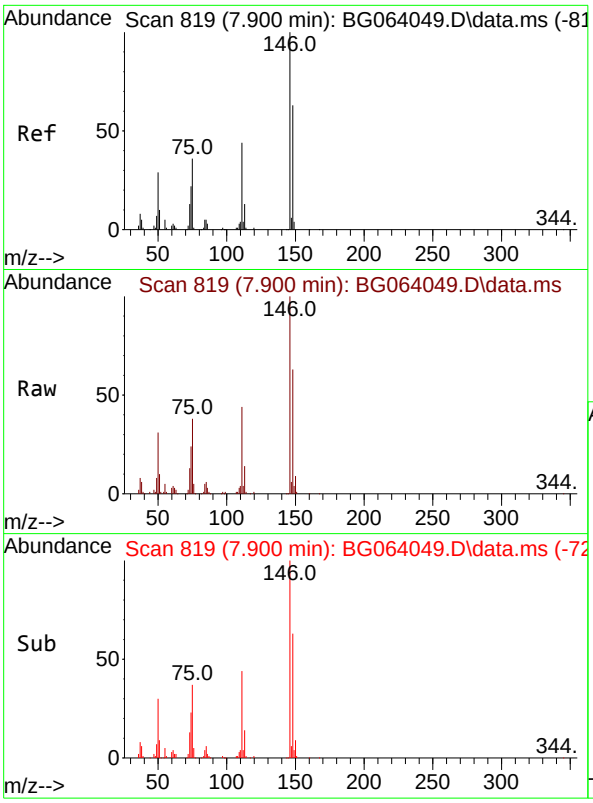


#12
1,3-Dichlorobenzene
Concen: 40.935 ng
RT: 7.759 min Scan# 795
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:146 Resp: 111677

Ion	Ratio	Lower	Upper
146	100		
148	65.7	52.6	78.8
75	35.1	28.1	42.1

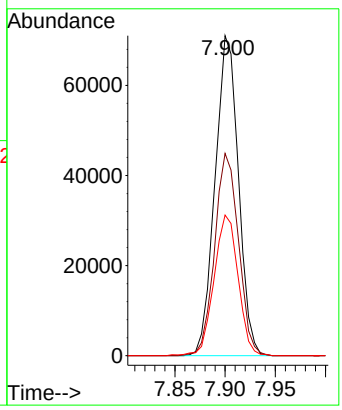




#13
1,4-Dichlorobenzene
Concen: 41.114 ng
RT: 7.900 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:146 Resp: 11497

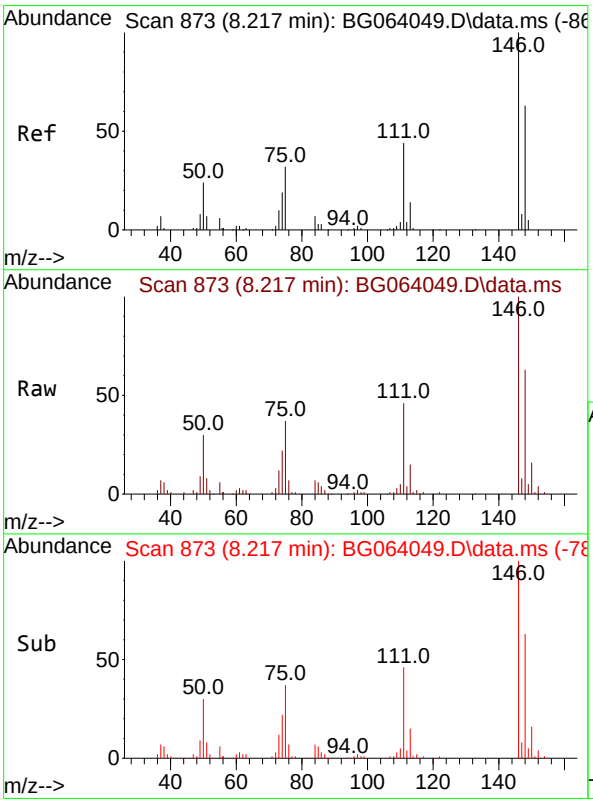
Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	75.8
111	43.9	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

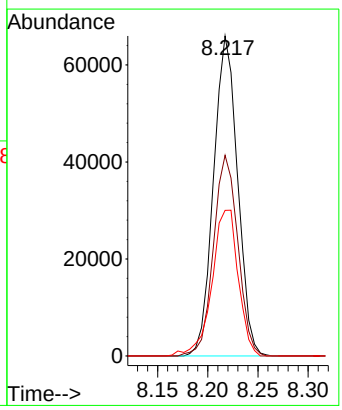
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

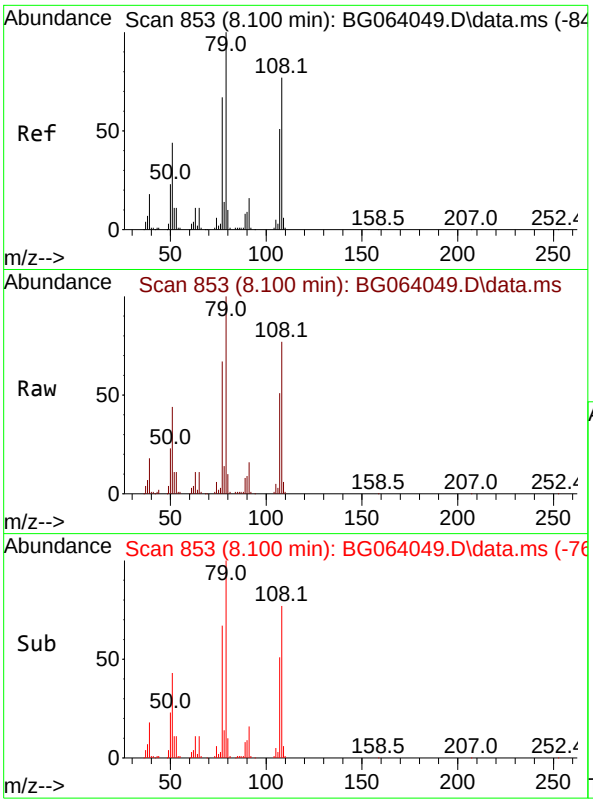


#14
1,2-Dichlorobenzene
Concen: 40.705 ng
RT: 8.217 min Scan# 873
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:146 Resp: 109760

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.2	75.2
111	45.5	36.4	54.6

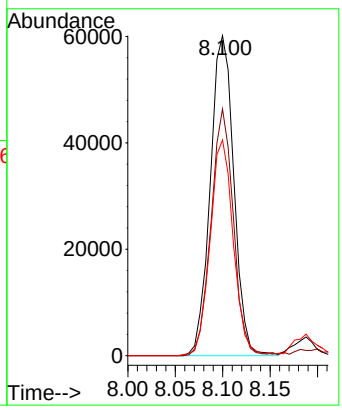




#15
Benzyl Alcohol
Concen: 42.666 ng
RT: 8.100 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 79 Resp: 10375

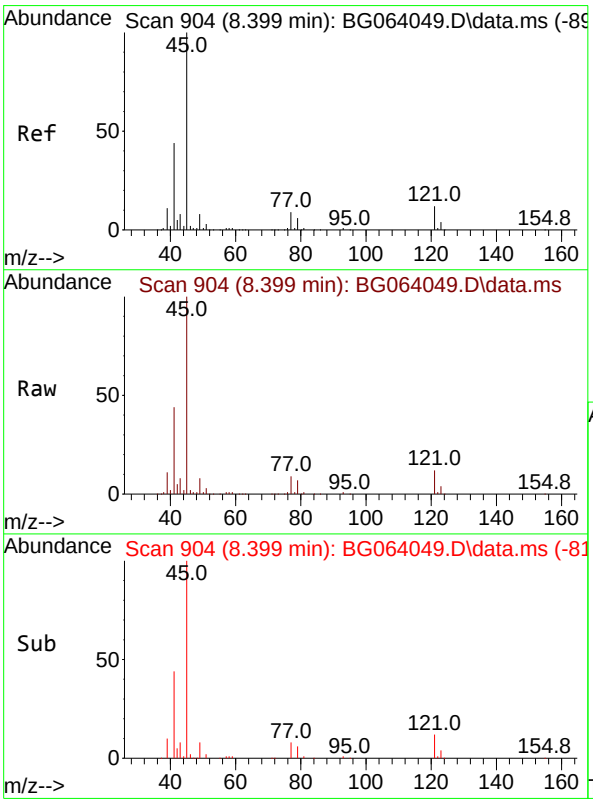
Ion	Ratio	Lower	Upper
79	100		
108	77.1	61.7	92.5
77	67.4	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

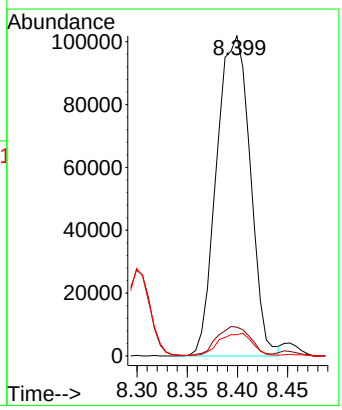
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

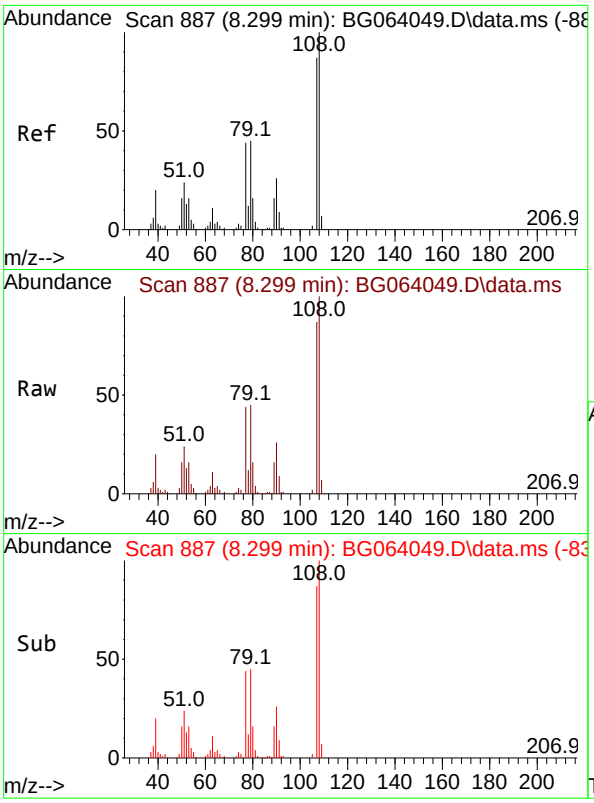


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.738 ng
RT: 8.399 min Scan# 904
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 45 Resp: 237053

Ion	Ratio	Lower	Upper
45	100		
77	9.0	0.0	29.0
79	6.6	0.0	26.6

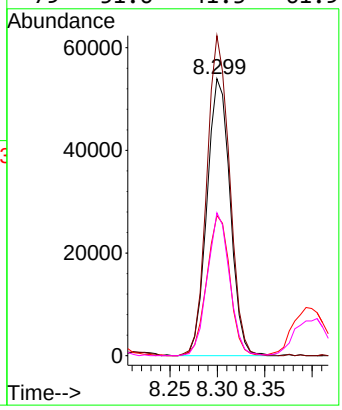




#17
2-Methylphenol
Concen: 42.852 ng
RT: 8.299 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:107 Resp: 9163

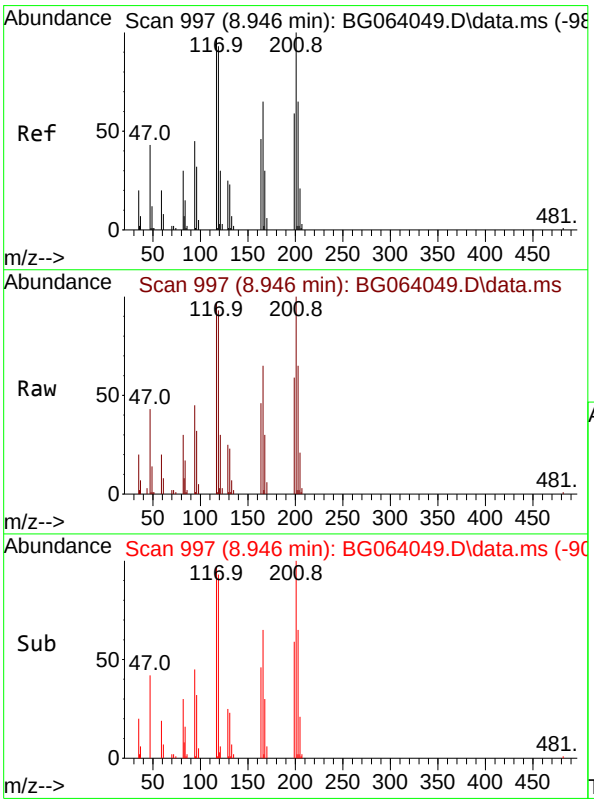
Ion	Ratio	Lower	Upper
107	100		
108	115.6	92.5	138.7
77	50.6	40.5	60.7
79	51.6	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

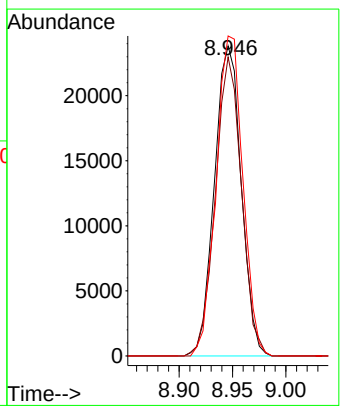
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

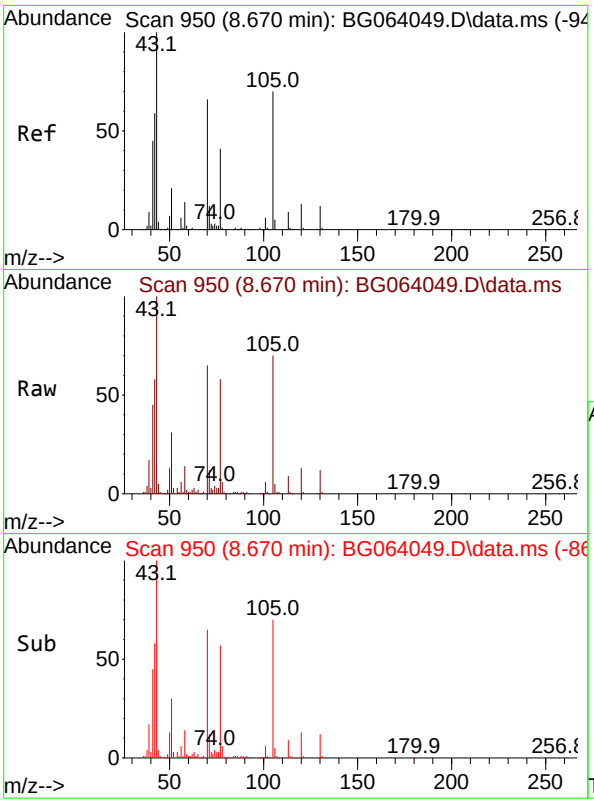


#18
Hexachloroethane
Concen: 42.603 ng
RT: 8.946 min Scan# 997
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:117 Resp: 41682

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
201	101.9	81.5	122.3

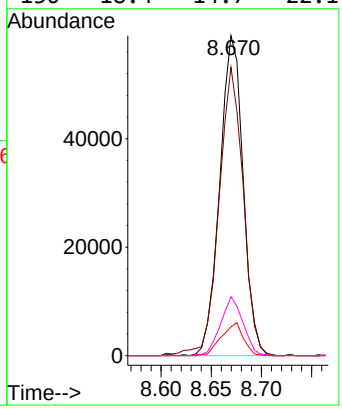




#19
n-Nitroso-di-n-propylamine
Concen: 43.283 ng
RT: 8.670 min Scan# 9
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 70 Resp: 9558

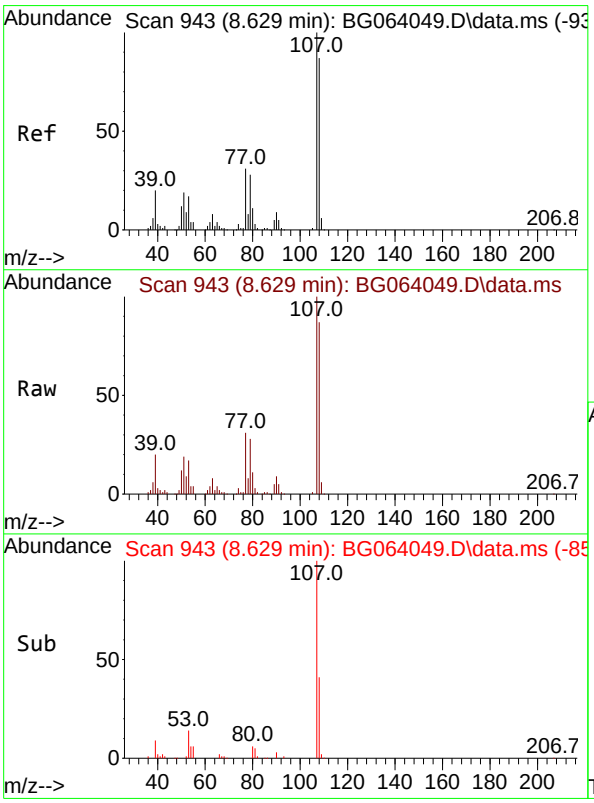
Ion	Ratio	Lower	Upper
70	100		
42	90.1	72.1	108.1
101	9.0	7.2	10.8
130	18.4	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

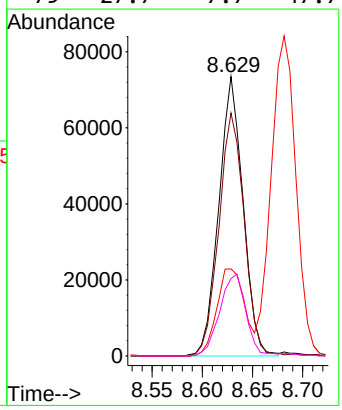
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

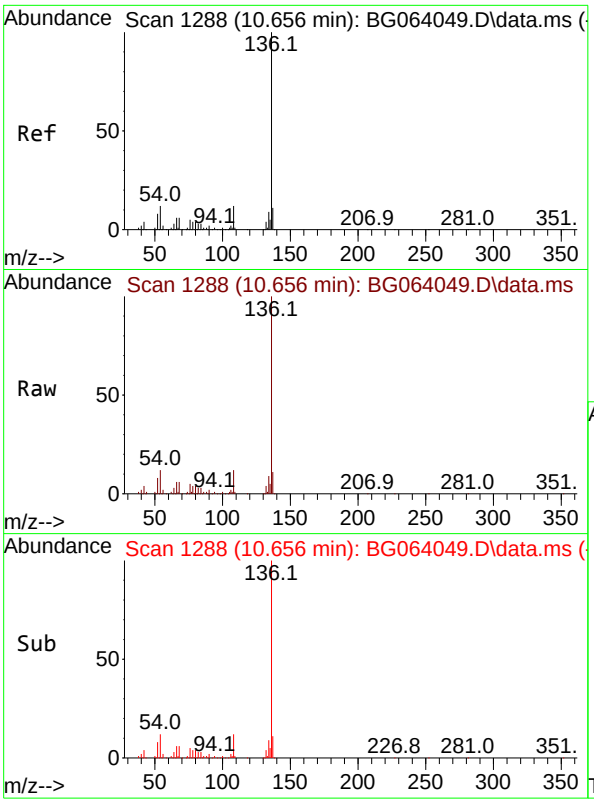


#20
3+4-Methylphenols
Concen: 41.875 ng
RT: 8.629 min Scan# 943
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:107 Resp: 123273

Ion	Ratio	Lower	Upper
107	100		
108	87.0	67.0	107.0
77	31.2	11.2	51.2
79	27.7	7.7	47.7

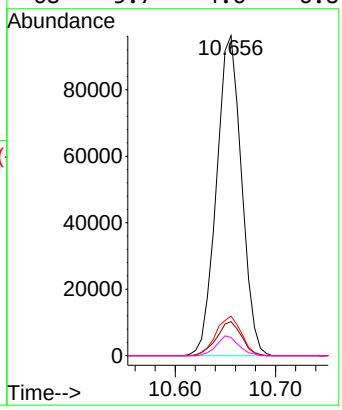




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:136 Resp: 16659

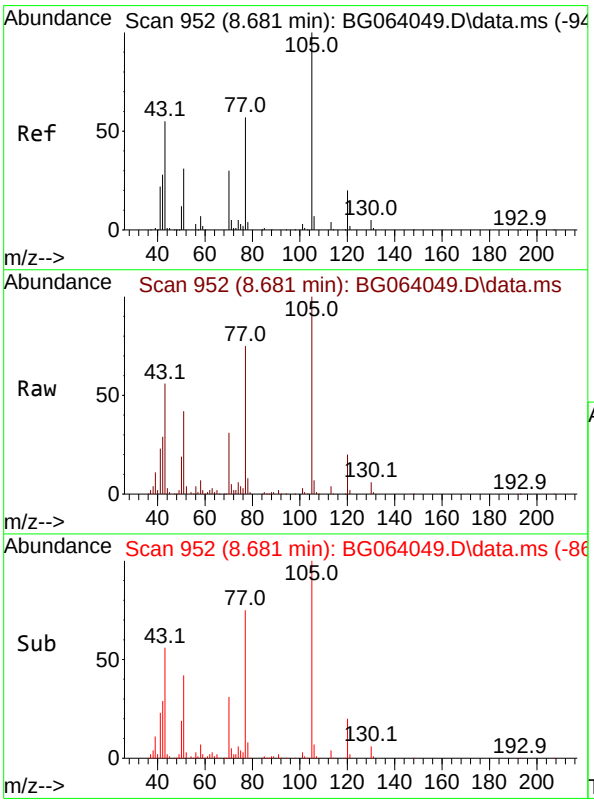
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	12.4	9.9	14.9
68	5.7	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

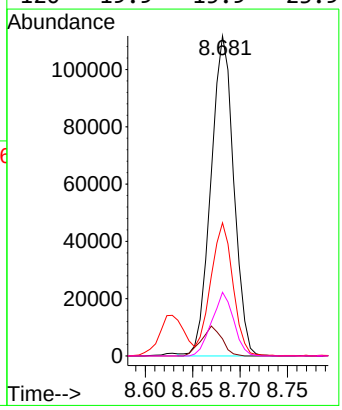
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

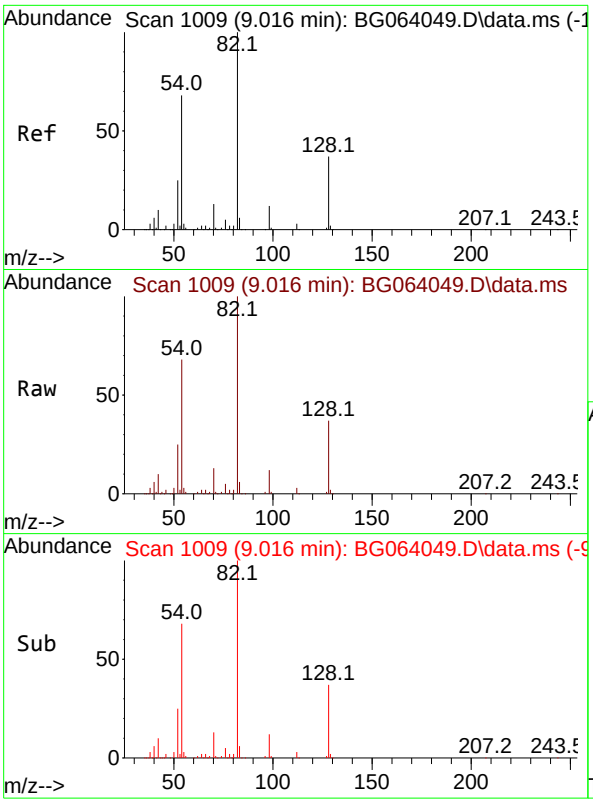


#22
Acetophenone
Concen: 41.048 ng
RT: 8.681 min Scan# 952
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:105 Resp: 187490

Ion	Ratio	Lower	Upper
105	100		
71	5.3	4.2	6.4
51	41.6	33.3	49.9
120	19.9	15.9	23.9

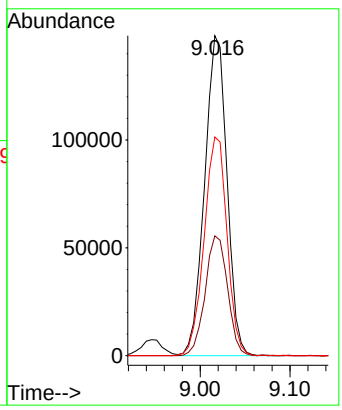




#23
Nitrobenzene-d5
Concen: 85.125 ng
RT: 9.016 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 82 Resp: 25661

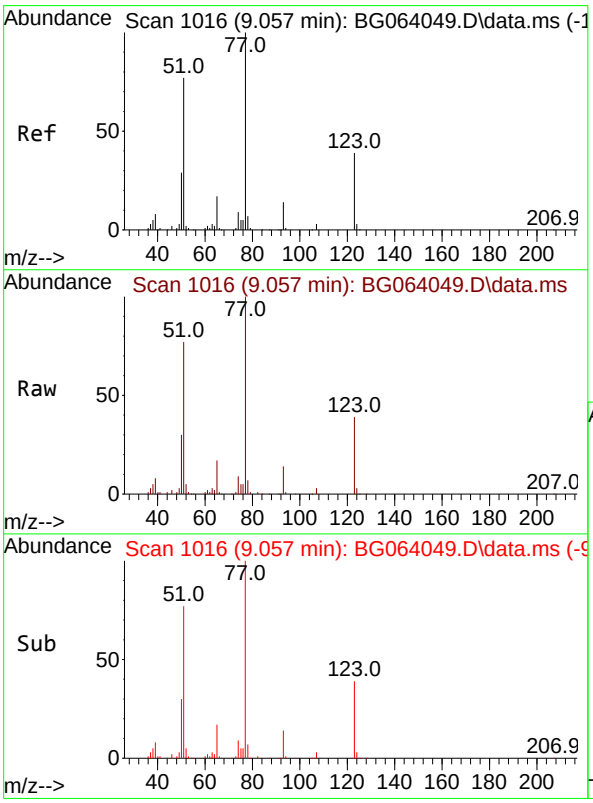
Ion	Ratio	Lower	Upper
82	100		
128	37.5	30.0	45.0
54	68.4	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

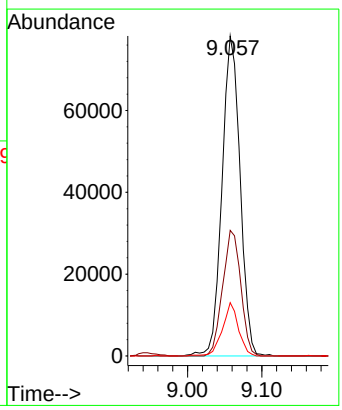
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

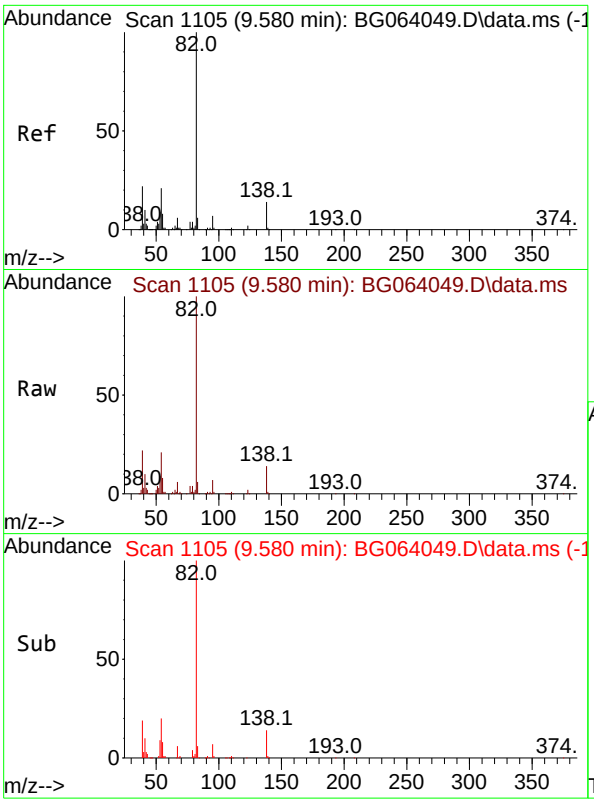


#24
Nitrobenzene
Concen: 42.497 ng
RT: 9.057 min Scan# 1016
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 77 Resp: 132396

Ion	Ratio	Lower	Upper
77	100		
123	39.3	31.4	47.2
65	16.7	13.4	20.0

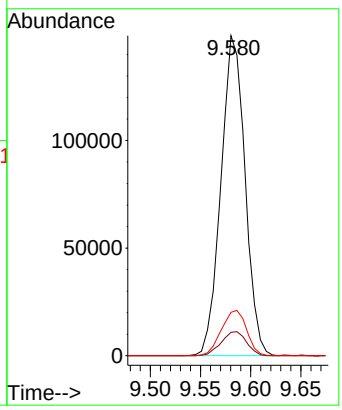




#25
Isophorone
Concen: 41.117 ng
RT: 9.580 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 82 Resp: 24809

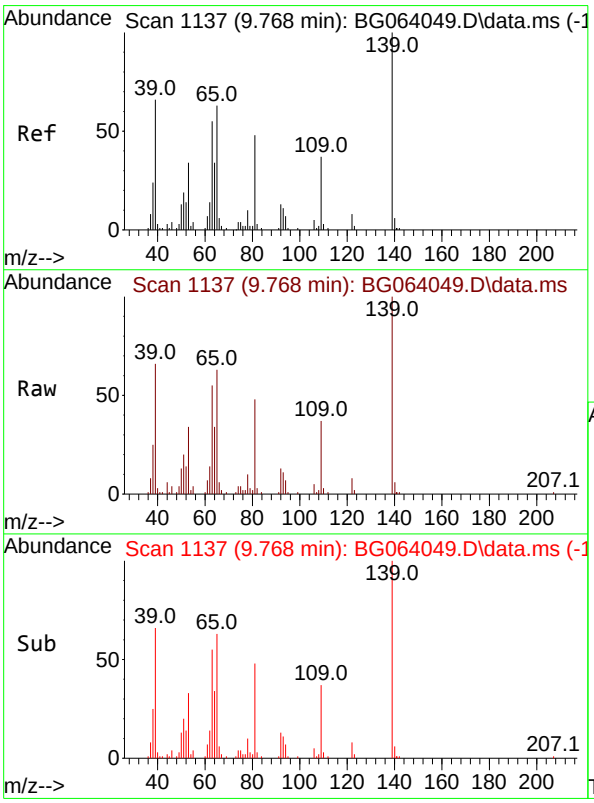
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.8
138	13.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

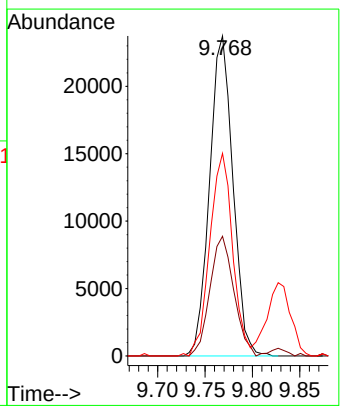
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

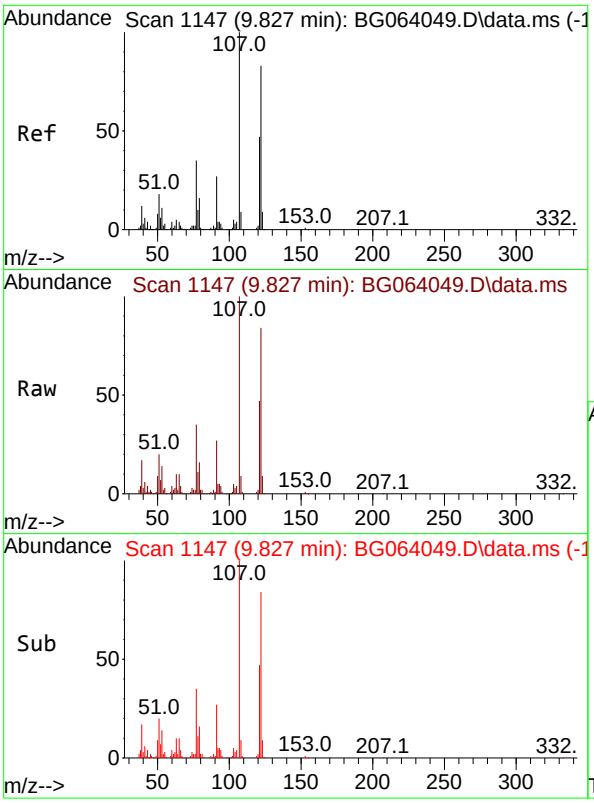


#26
2-Nitrophenol
Concen: 39.553 ng
RT: 9.768 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:139 Resp: 40684

Ion	Ratio	Lower	Upper
139	100		
109	37.4	29.9	44.9
65	63.3	50.6	76.0

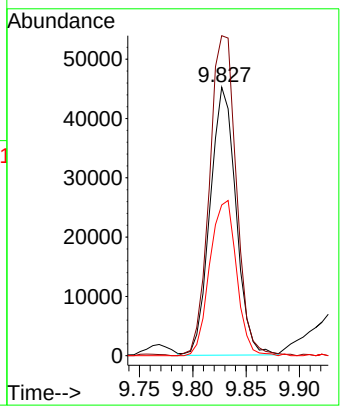




#27
2,4-Dimethylphenol
Concen: 42.079 ng
RT: 9.827 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:122 Resp: 7611

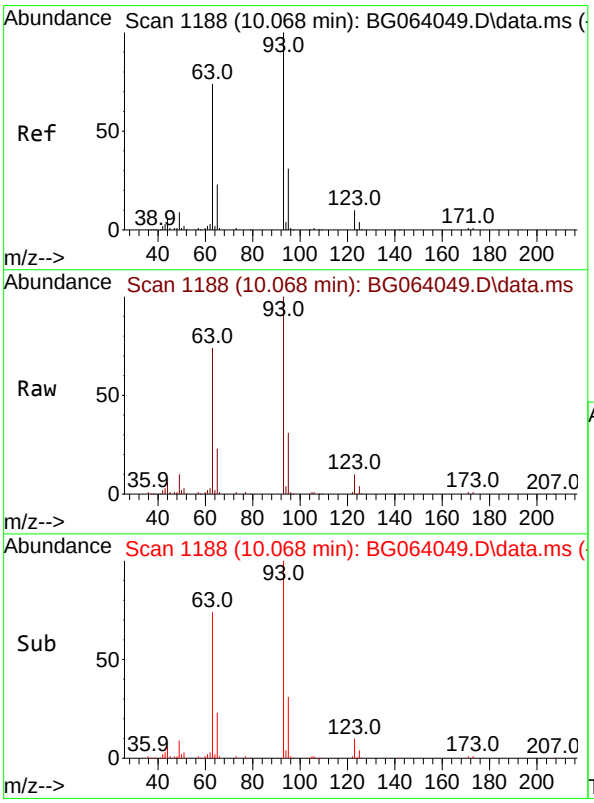
Ion	Ratio	Lower	Upper
122	100		
107	119.2	95.4	143.0
121	56.1	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

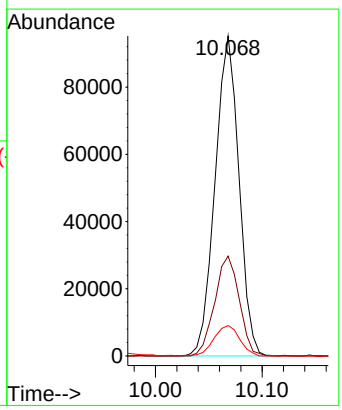
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

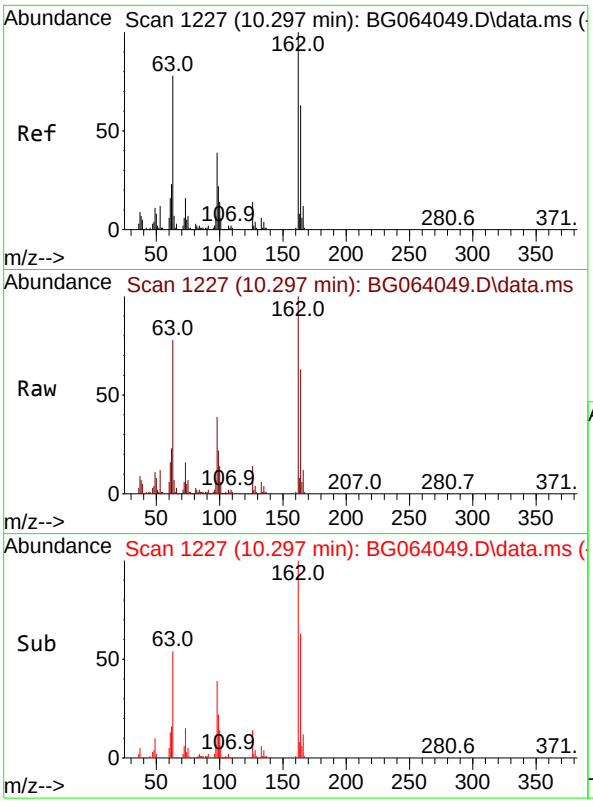


#28
bis(2-Chloroethoxy)methane
Concen: 40.391 ng
RT: 10.068 min Scan# 1188
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 93 Resp: 147757

Ion	Ratio	Lower	Upper
93	100		
95	31.2	25.0	37.4
123	9.5	7.6	11.4





#29
2,4-Dichlorophenol
Concen: 41.916 ng
RT: 10.297 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

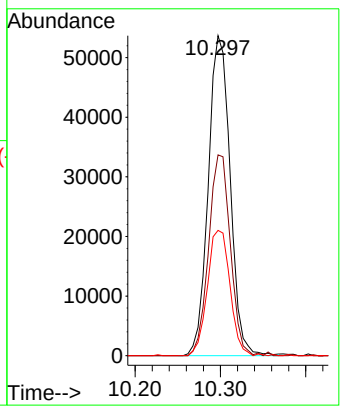
Tgt Ion:162 Resp: 9573

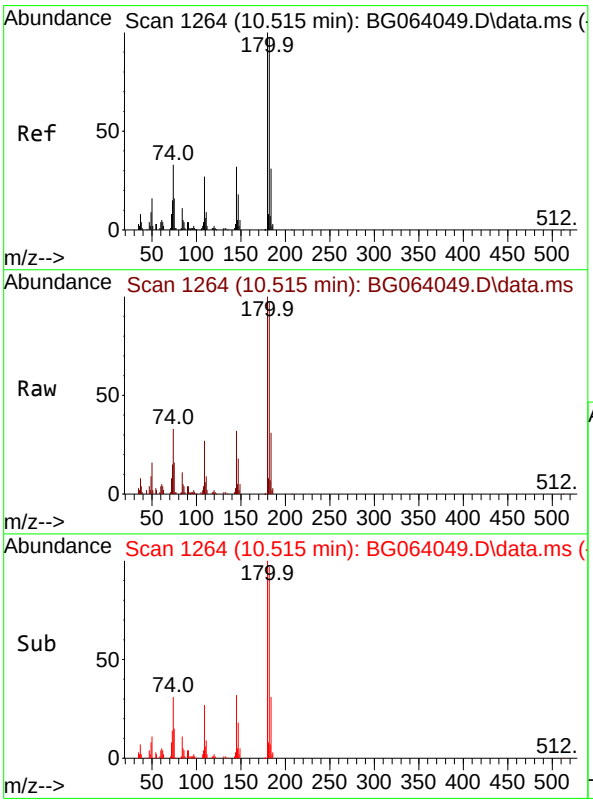
Ion	Ratio	Lower	Upper
162	100		
164	62.8	42.8	82.8
98	39.1	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

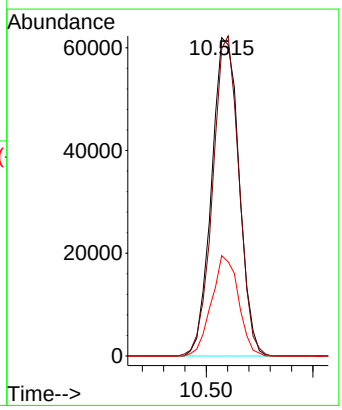


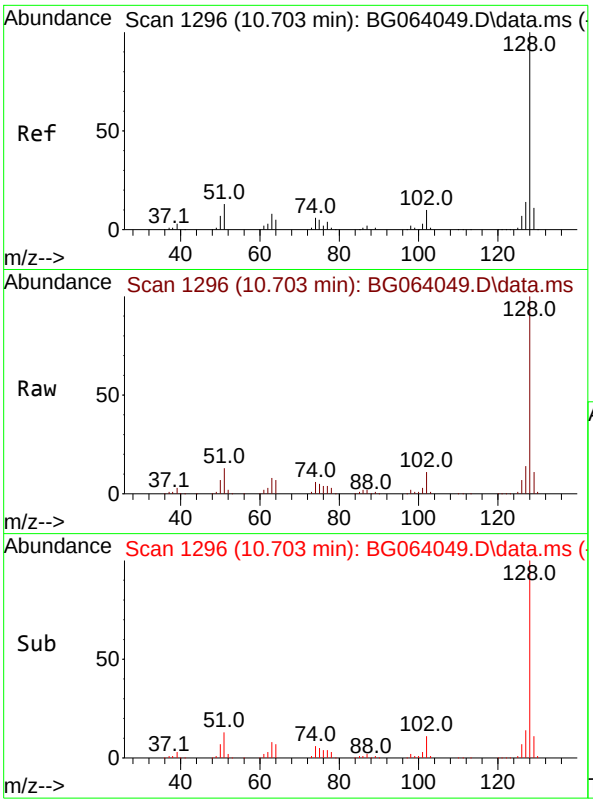


#30
1,2,4-Trichlorobenzene
Concen: 40.125 ng
RT: 10.515 min Scan# 1264
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:180 Resp: 110636

Ion	Ratio	Lower	Upper
180	100		
182	96.6	77.3	115.9
145	31.5	25.2	37.8

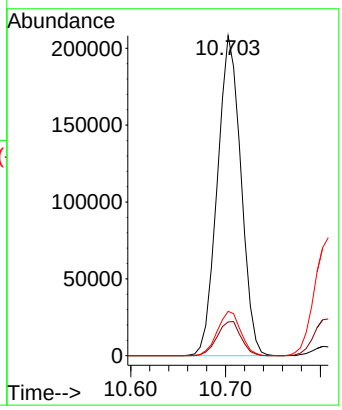




#31
Naphthalene
Concen: 40.004 ng
RT: 10.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:128 Resp: 35936

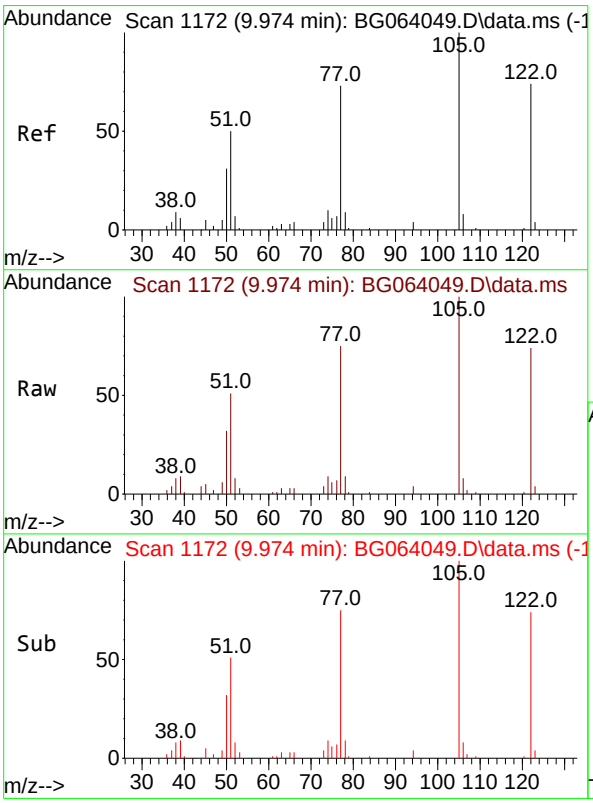
Ion	Ratio	Lower	Upper
128	100		
129	10.5	8.4	12.6
127	13.9	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

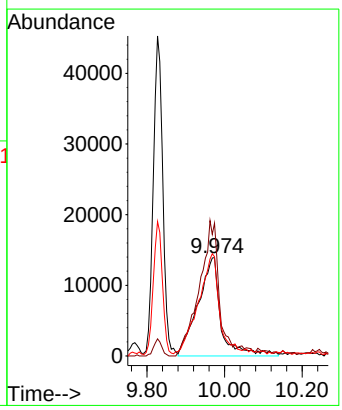
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

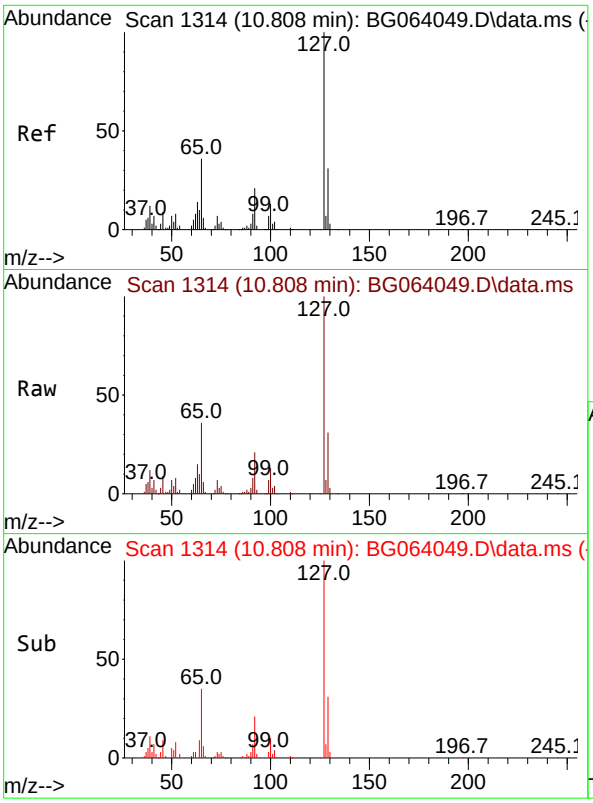


#32
Benzoic acid
Concen: 37.004 ng m
RT: 9.974 min Scan# 1172
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:122 Resp: 57392

Ion	Ratio	Lower	Upper
122	100		
105	135.0	115.0	155.0
77	100.9	80.9	120.9

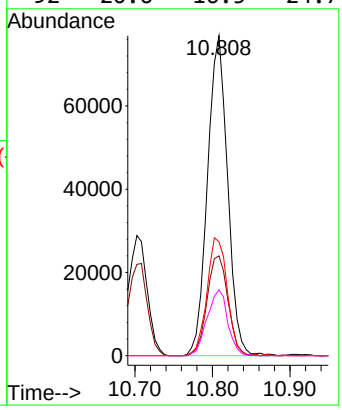




#33
4-Chloroaniline
Concen: 42.251 ng
RT: 10.808 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:127 Resp: 13872

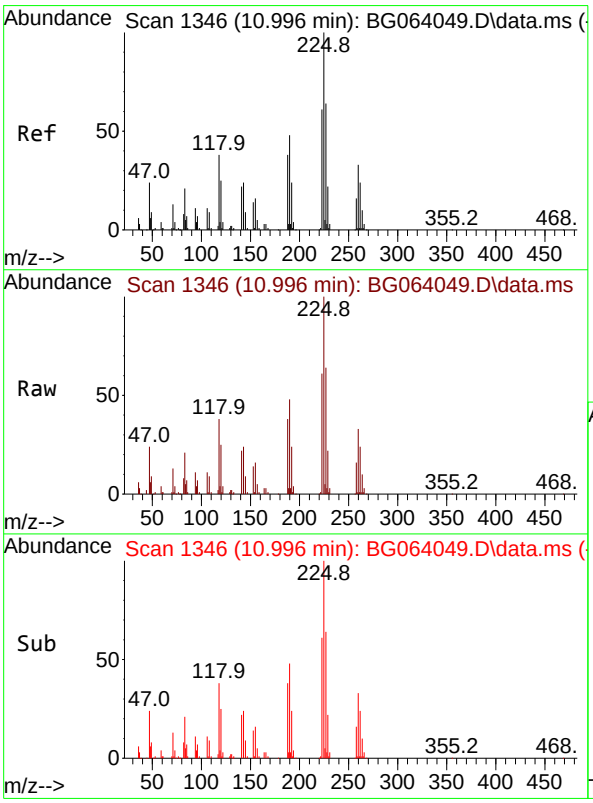
Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.0	37.4
65	35.6	28.5	42.7
92	20.6	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

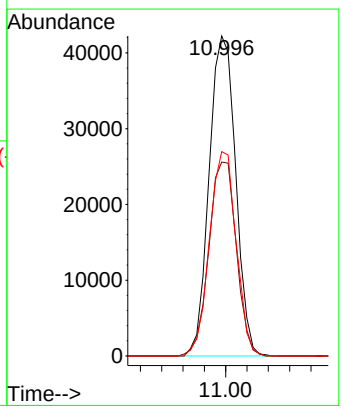
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

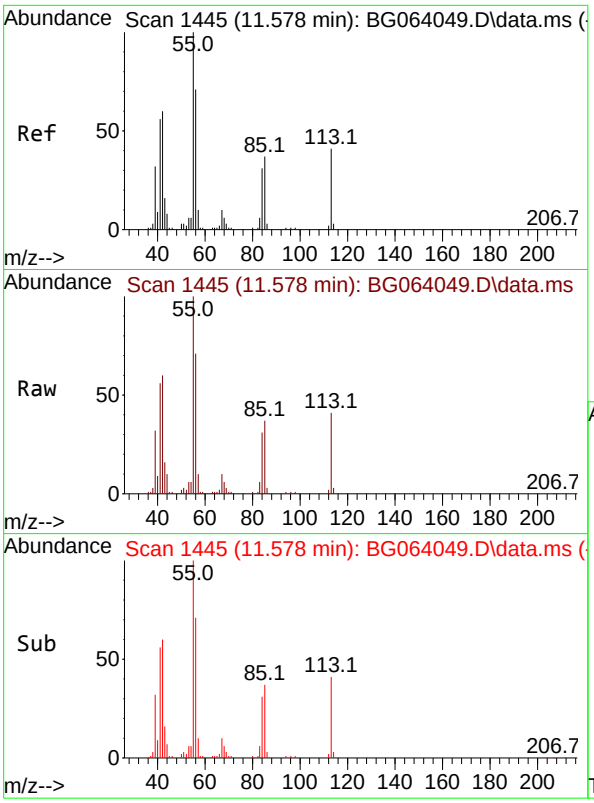


#34
Hexachlorobutadiene
Concen: 40.294 ng
RT: 10.996 min Scan# 1346
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:225 Resp: 72822

Ion	Ratio	Lower	Upper
225	100		
223	60.6	48.5	72.7
227	63.8	51.0	76.6

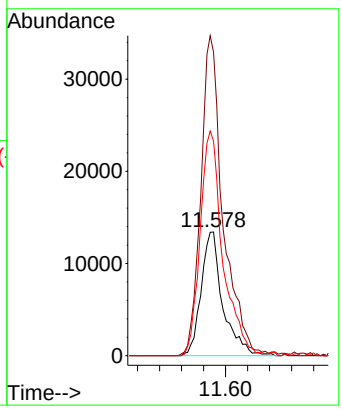




#35
Caprolactam
Concen: 41.970 ng
RT: 11.578 min Scan# 14
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:113 Resp: 3673

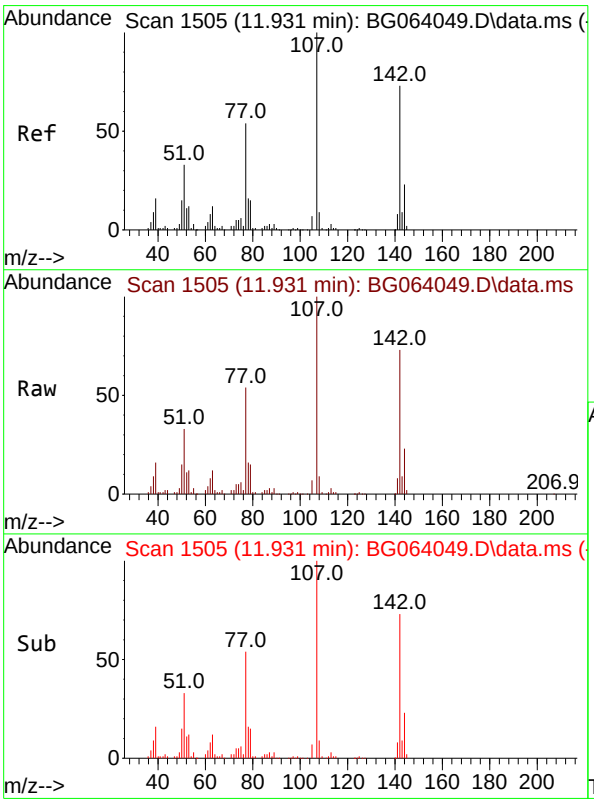
Ion	Ratio	Lower	Upper
113	100		
55	245.2	225.2	265.2
56	173.4	153.4	193.4



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

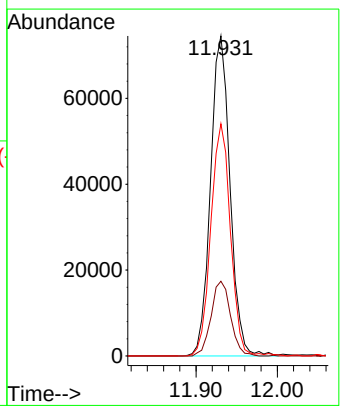
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

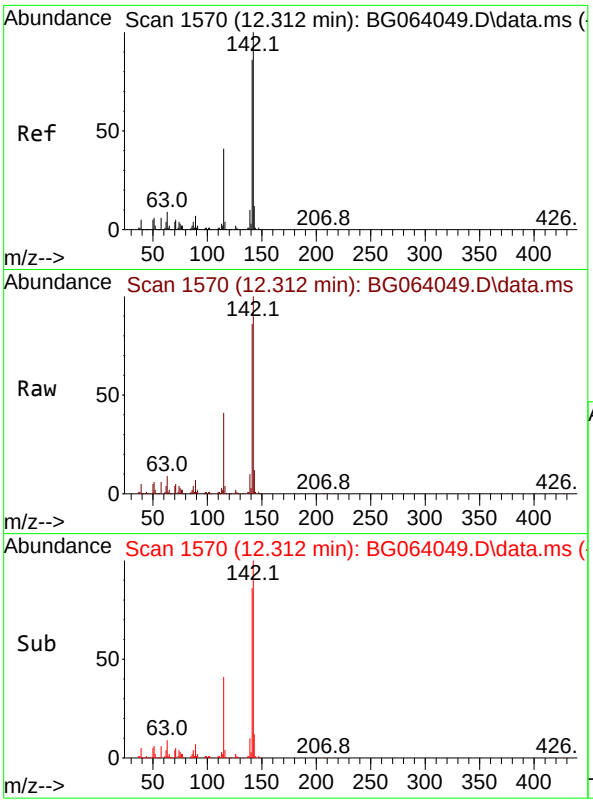


#36
4-Chloro-3-methylphenol
Concen: 41.558 ng
RT: 11.931 min Scan# 1505
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:107 Resp: 124422

Ion	Ratio	Lower	Upper
107	100		
144	23.3	18.6	28.0
142	72.5	58.0	87.0

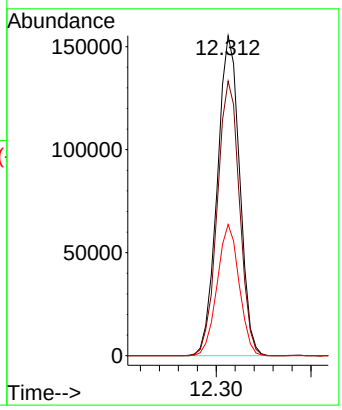




#37
2-Methylnaphthalene
Concen: 40.099 ng
RT: 12.312 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:142 Resp: 25429

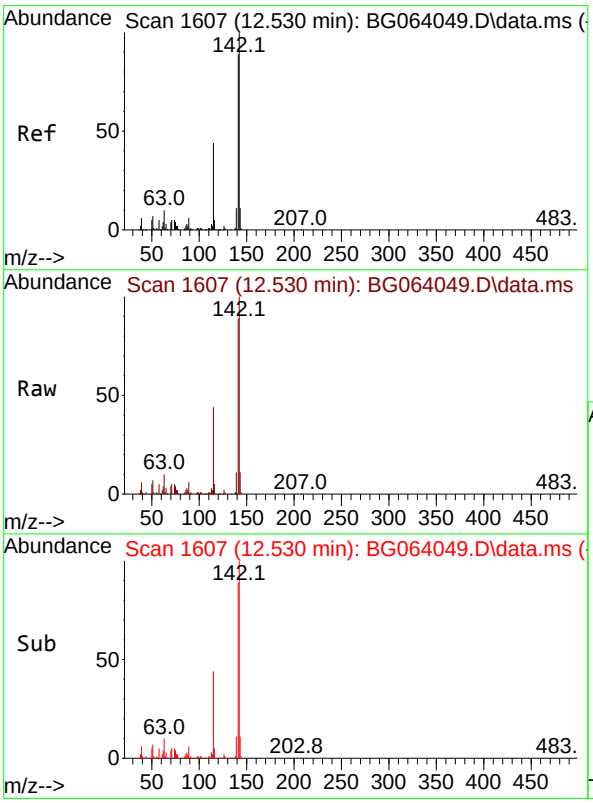
Ion	Ratio	Lower	Upper
142	100		
141	85.8	68.6	103.0
115	41.0	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

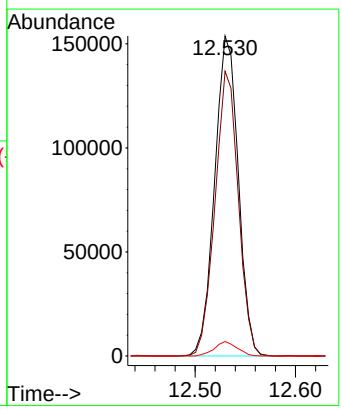
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

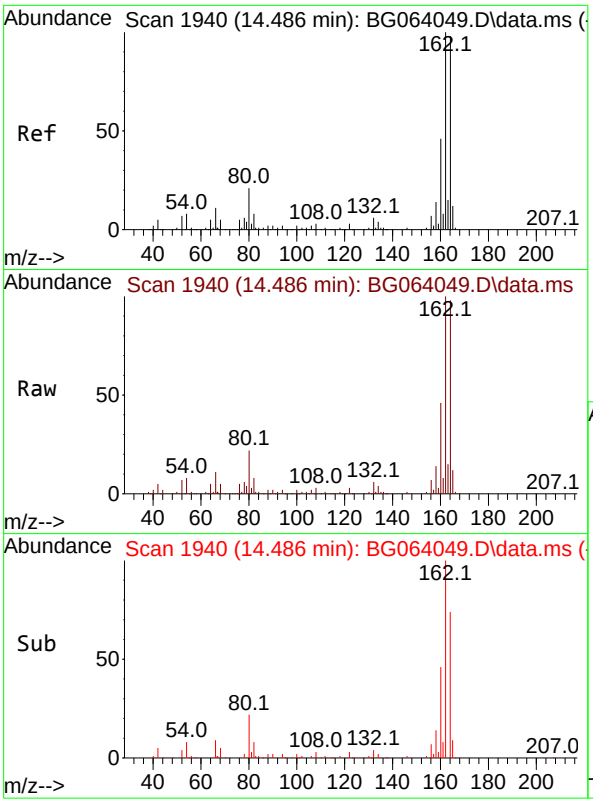


#38
1-Methylnaphthalene
Concen: 40.394 ng
RT: 12.530 min Scan# 1607
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:142 Resp: 250971

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
116	4.5	3.6	5.4

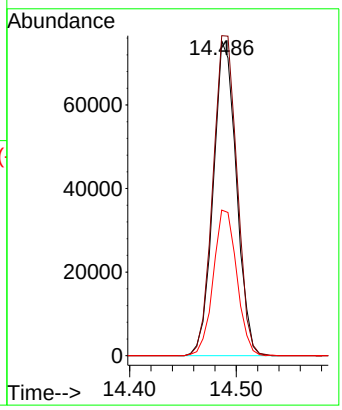




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:164 Resp: 11340

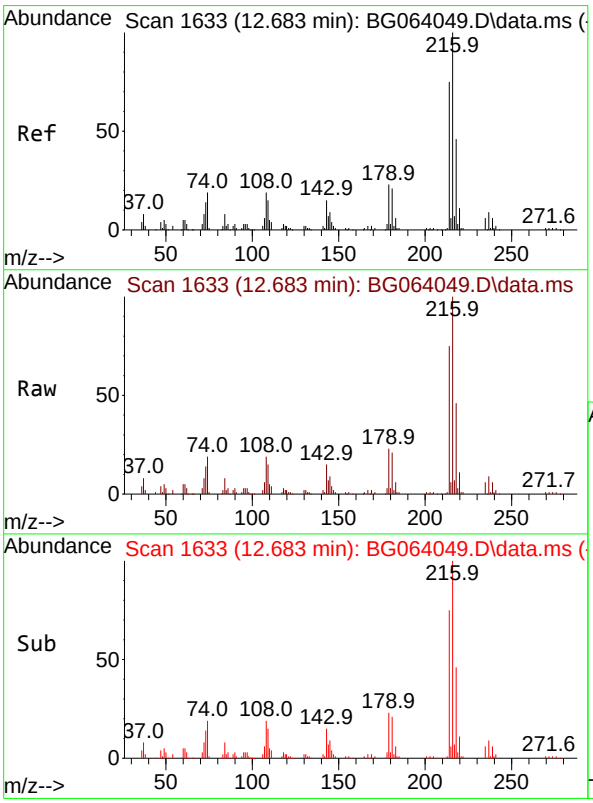
Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.4	122.0
160	46.3	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

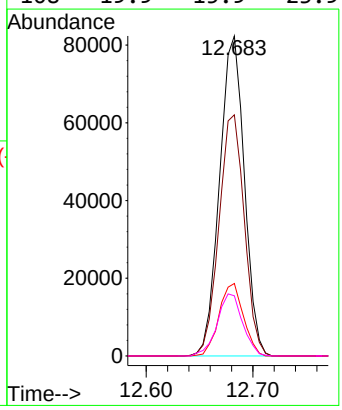
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

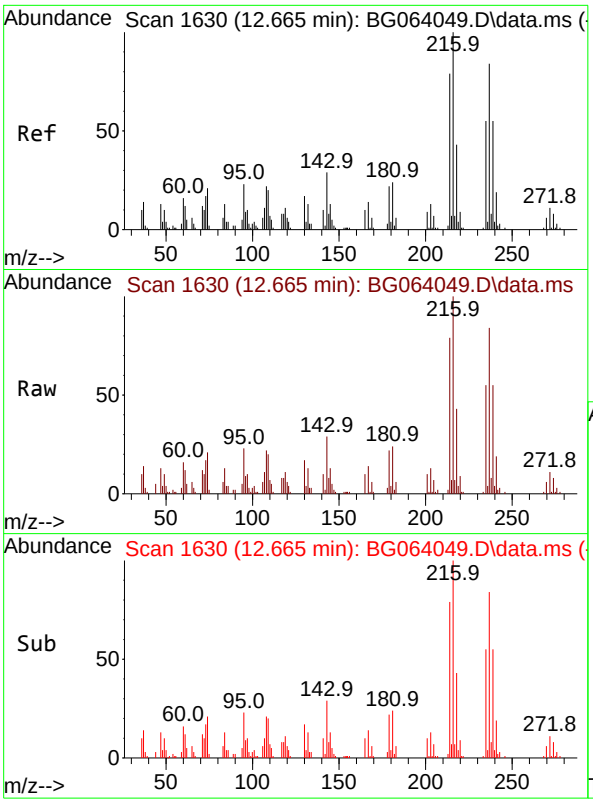


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.034 ng
RT: 12.683 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:216 Resp: 132854

Ion	Ratio	Lower	Upper
216	100		
214	77.1	61.7	92.5
179	22.4	17.9	26.9
108	19.9	15.9	23.9

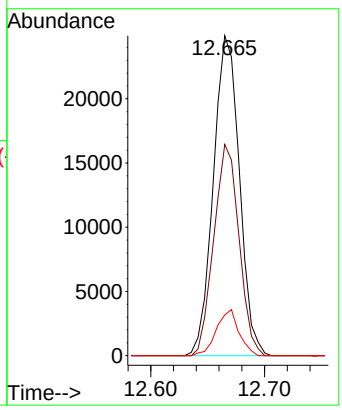




#41
Hexachlorocyclopentadiene
Concen: 43.464 ng
RT: 12.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:237 Resp: 3960

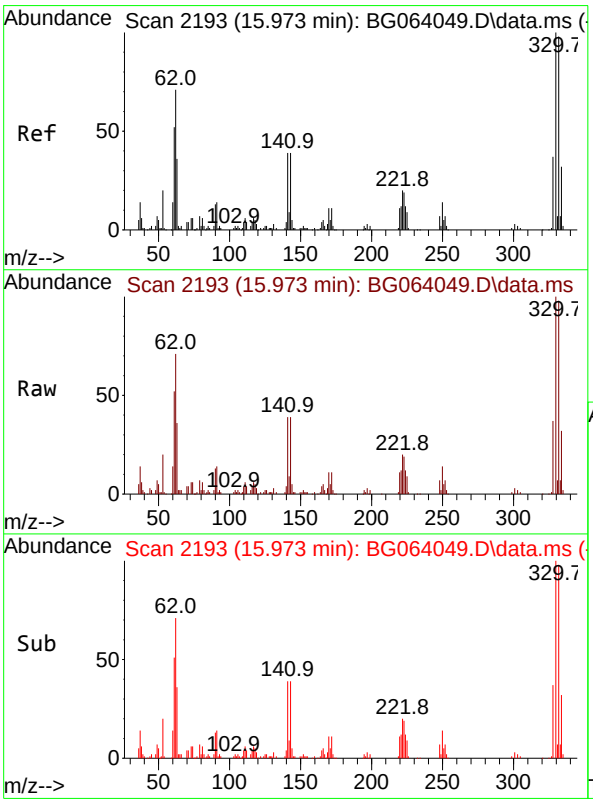
Ion	Ratio	Lower	Upper
237	100		
235	66.0	46.0	86.0
272	12.8	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

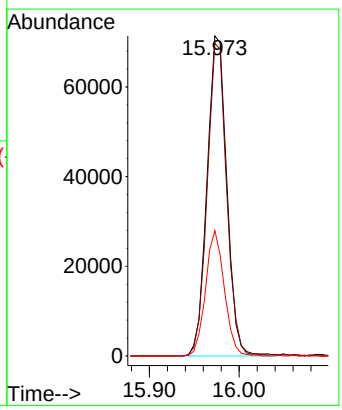
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

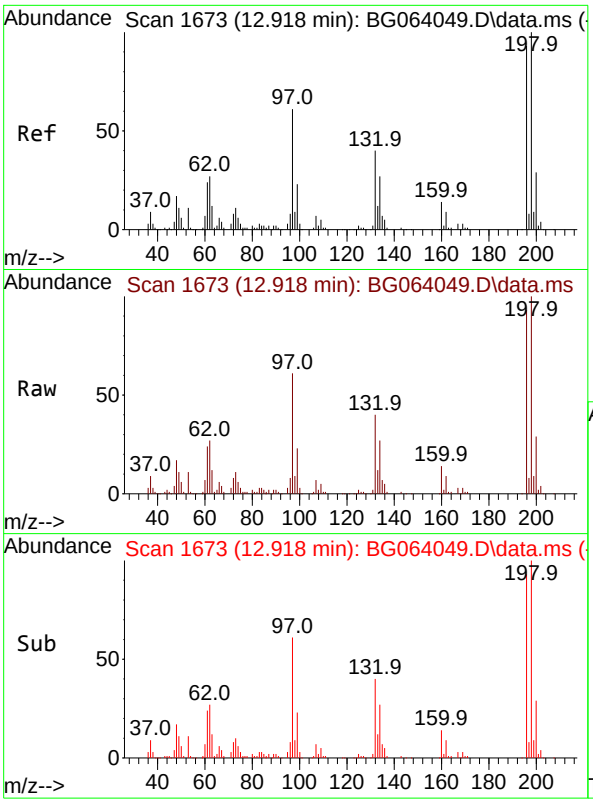


#42
2,4,6-Tribromophenol
Concen: 86.616 ng
RT: 15.973 min Scan# 2193
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:330 Resp: 109187

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.7	115.1
141	37.1	29.7	44.5

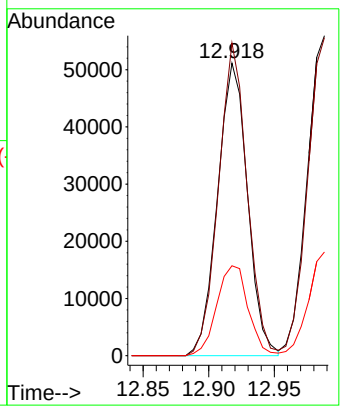




#43
2,4,6-Trichlorophenol
Concen: 42.524 ng
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:196 Resp: 8114

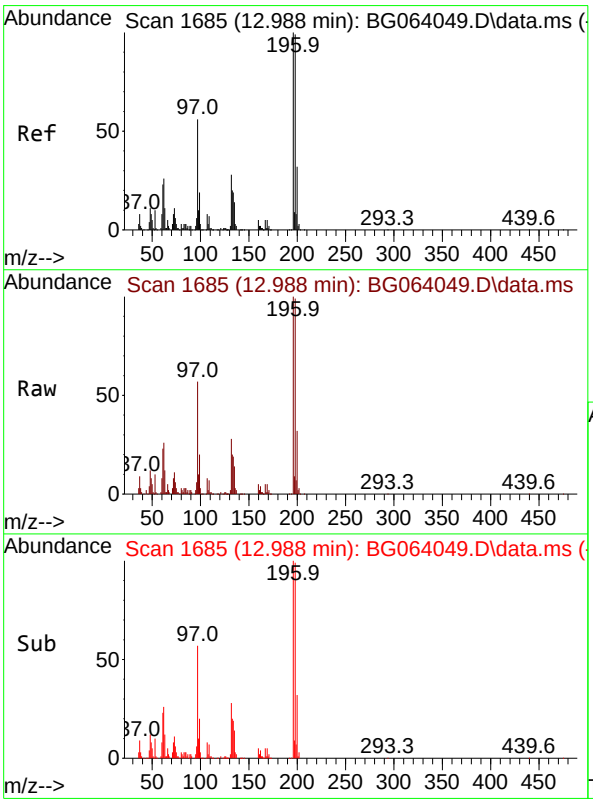
Ion	Ratio	Lower	Upper
196	100		
198	107.0	85.6	128.4
200	30.8	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

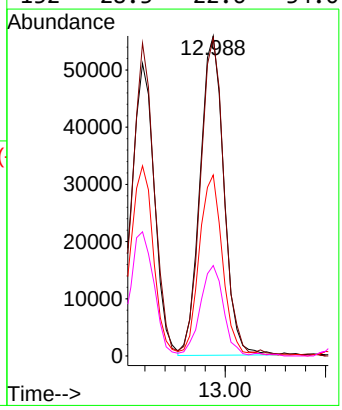
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

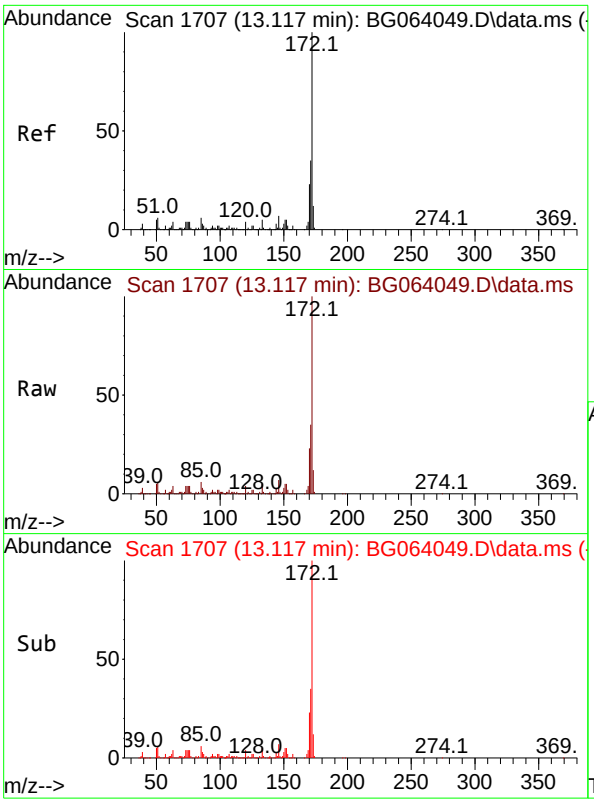


#44
2,4,5-Trichlorophenol
Concen: 43.449 ng
RT: 12.988 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:196 Resp: 92122

Ion	Ratio	Lower	Upper
196	100		
198	99.4	79.5	119.3
97	56.5	45.2	67.8
132	28.3	22.6	34.0

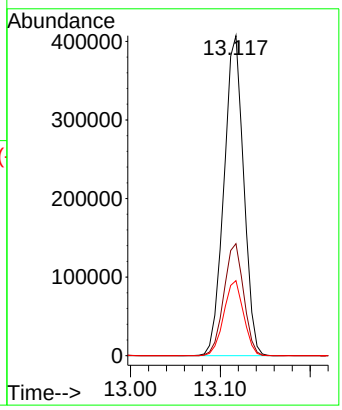




#45
2-Fluorobiphenyl
Concen: 83.029 ng
RT: 13.117 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:172 Resp: 62033

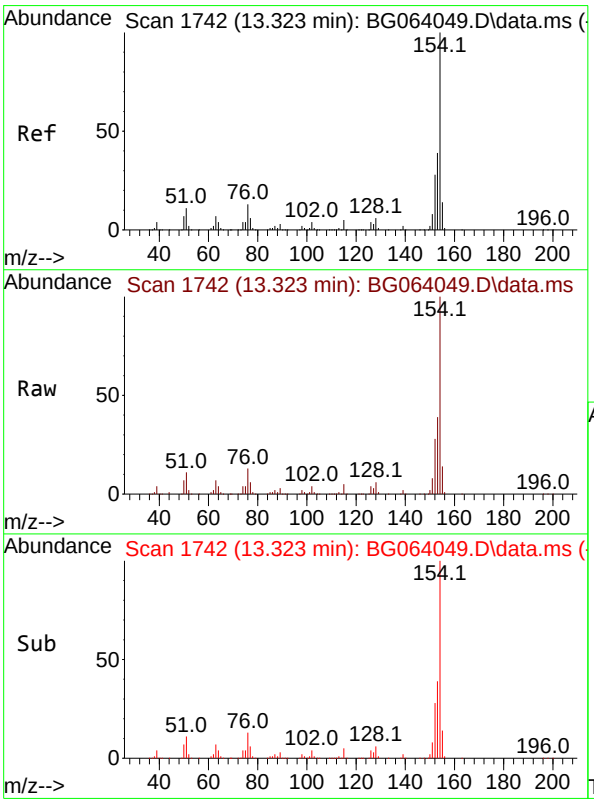
Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.0	42.0
170	23.4	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

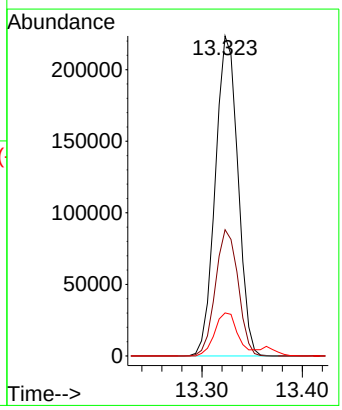
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

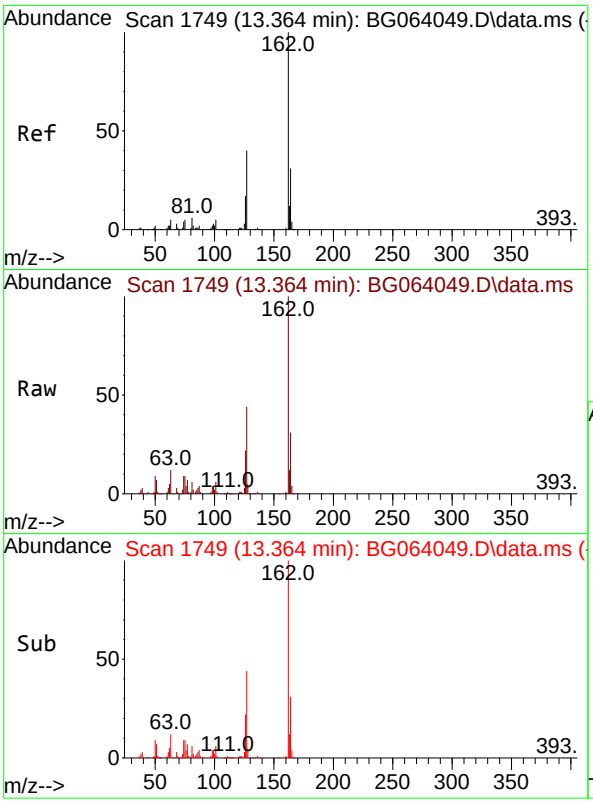


#46
1,1'-Biphenyl
Concen: 40.719 ng
RT: 13.323 min Scan# 1742
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:154 Resp: 348881

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.5	59.5
76	13.5	0.0	33.5

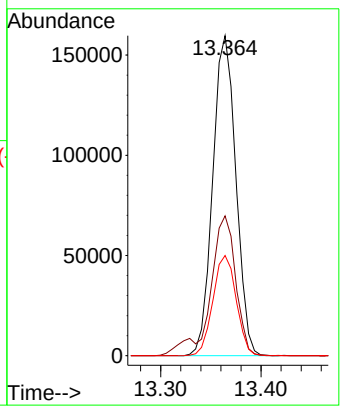




#47
2-Chloronaphthalene
Concen: 40.894 ng
RT: 13.364 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:162 Resp: 25554

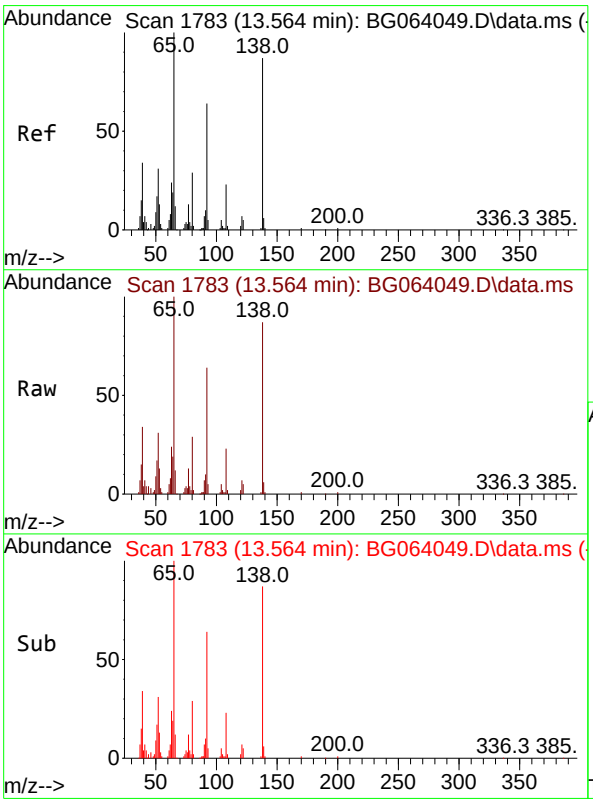
Ion	Ratio	Lower	Upper
162	100		
127	43.7	35.0	52.4
164	31.3	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

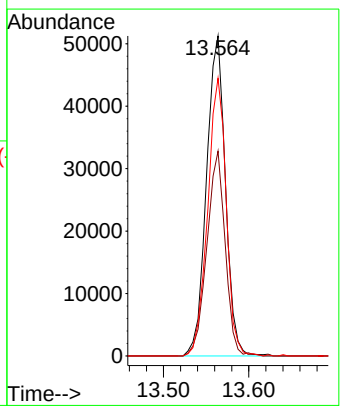
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

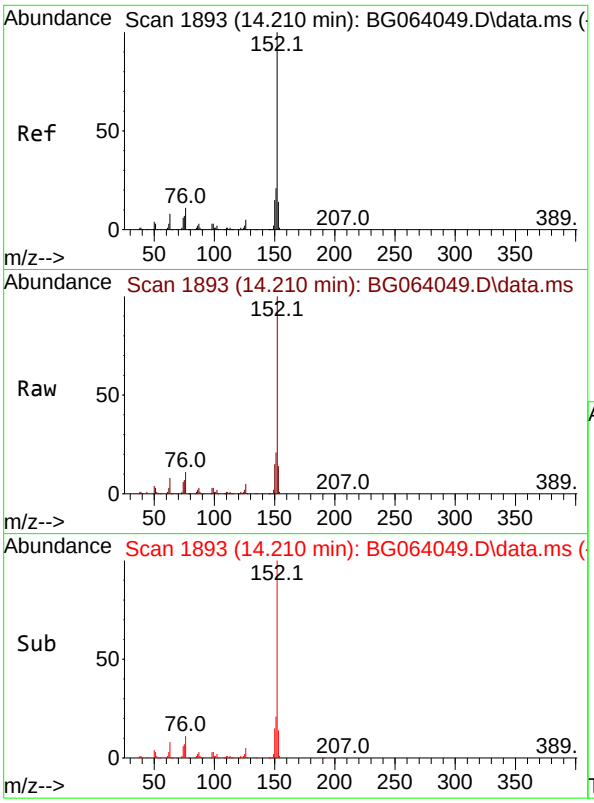


#48
2-Nitroaniline
Concen: 39.603 ng
RT: 13.564 min Scan# 1783
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 65 Resp: 78919

Ion	Ratio	Lower	Upper
65	100		
92	64.0	51.2	76.8
138	86.8	69.4	104.2

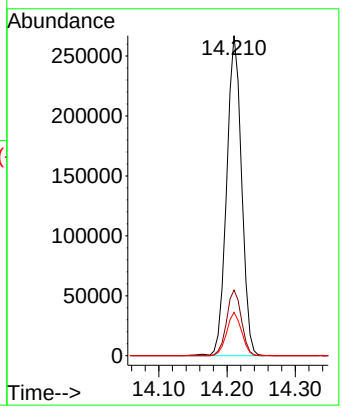




#49
Acenaphthylene
Concen: 41.052 ng
RT: 14.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:152 Resp: 40575

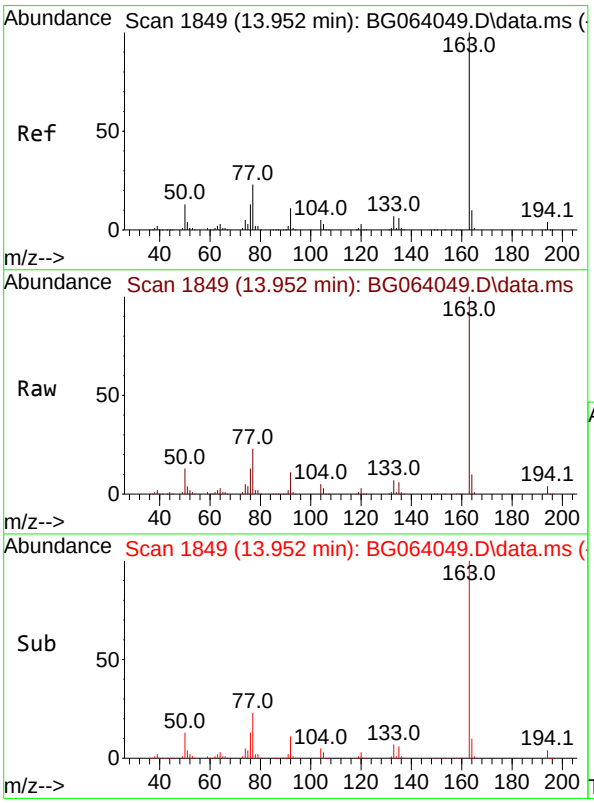
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.4	24.6
153	13.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

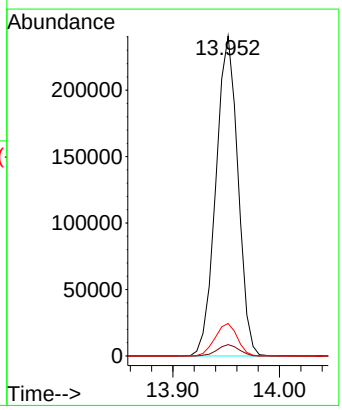
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

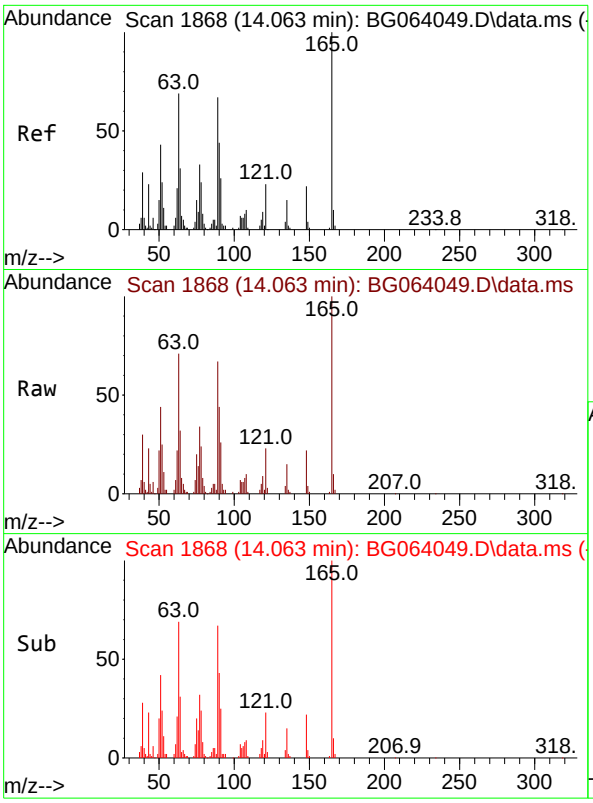


#50
Dimethylphthalate
Concen: 41.187 ng
RT: 13.952 min Scan# 1849
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:163 Resp: 344791

Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.8	4.2
164	10.2	8.2	12.2

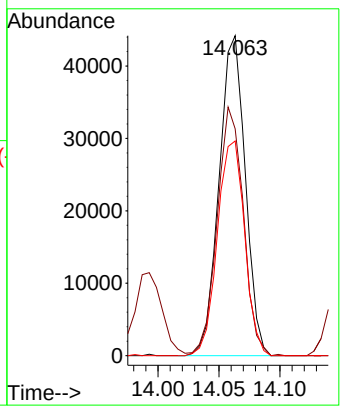




#51
2,6-Dinitrotoluene
Concen: 39.610 ng
RT: 14.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:165 Resp: 6620

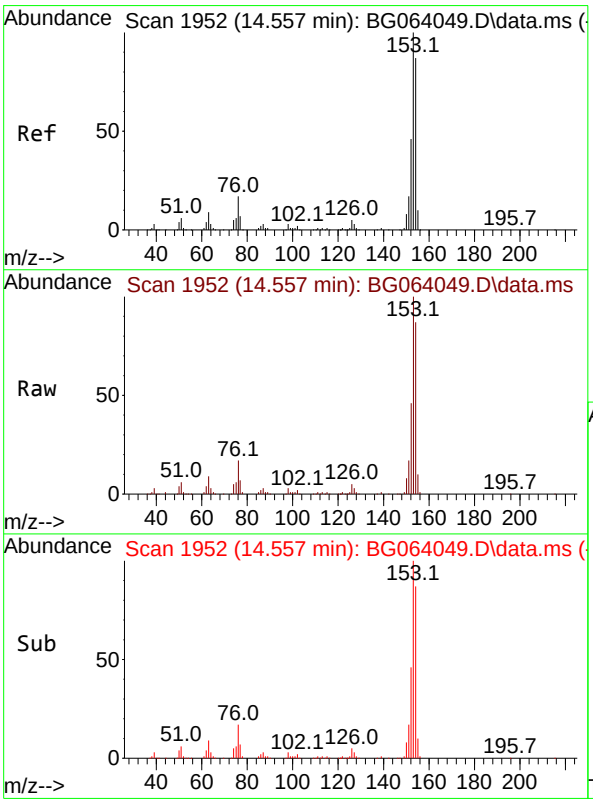
Ion	Ratio	Lower	Upper
165	100		
63	70.9	56.7	85.1
89	67.1	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

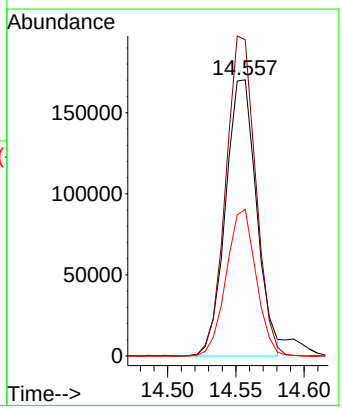
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

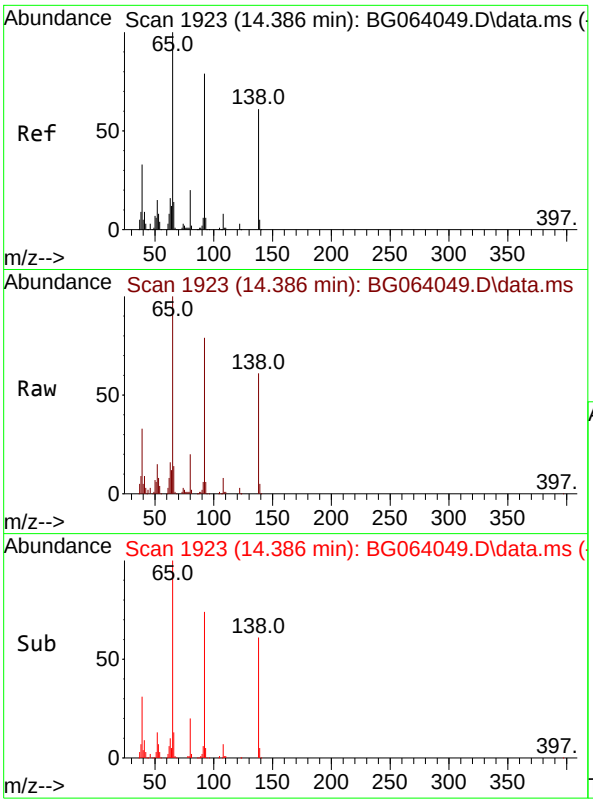


#52
Acenaphthene
Concen: 40.492 ng m
RT: 14.557 min Scan# 1952
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:154 Resp: 269147

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.6	137.4
152	53.1	42.5	63.7

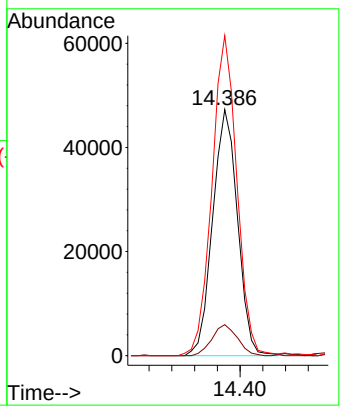




#53
3-Nitroaniline
Concen: 44.330 ng
RT: 14.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:138 Resp: 7172

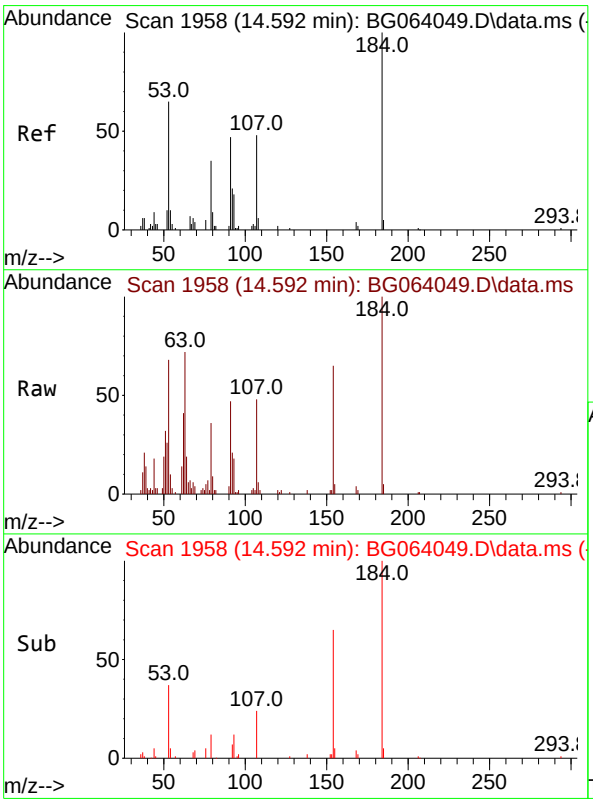
Ion	Ratio	Lower	Upper
138	100		
108	12.6	10.1	15.1
92	130.1	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

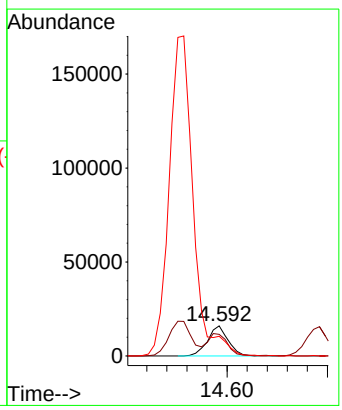
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

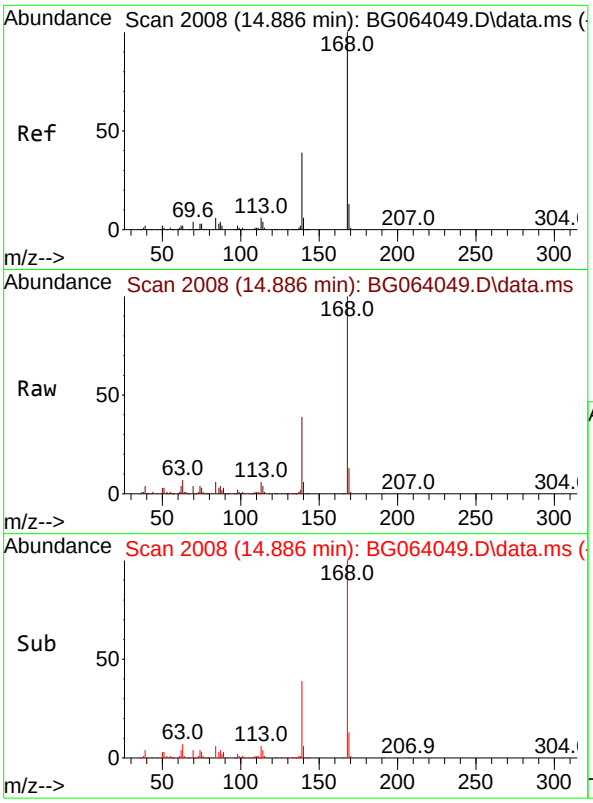


#54
2,4-Dinitrophenol
Concen: 36.881 ng
RT: 14.592 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:184 Resp: 22778

Ion	Ratio	Lower	Upper
184	100		
63	71.9	57.5	86.3
154	65.4	52.3	78.5

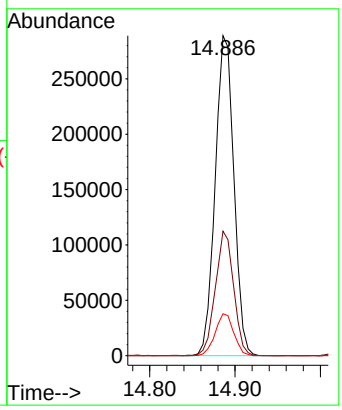




#55
Dibenzofuran
Concen: 40.970 ng
RT: 14.886 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:168 Resp: 44025

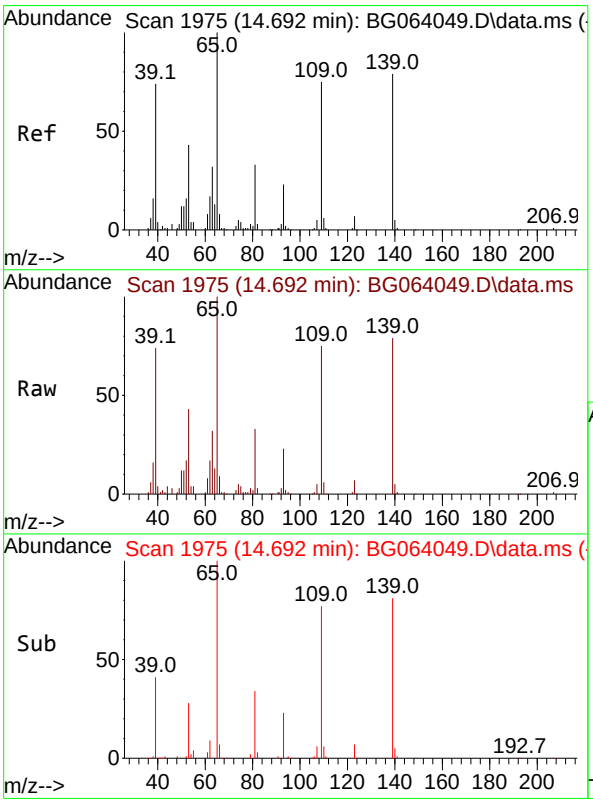
Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.1	46.7
169	13.1	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

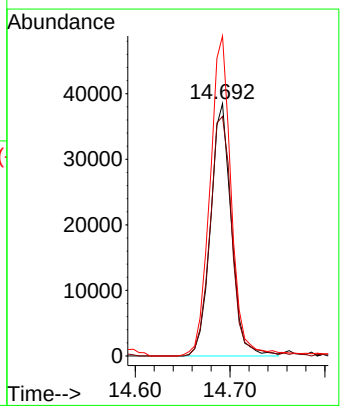
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

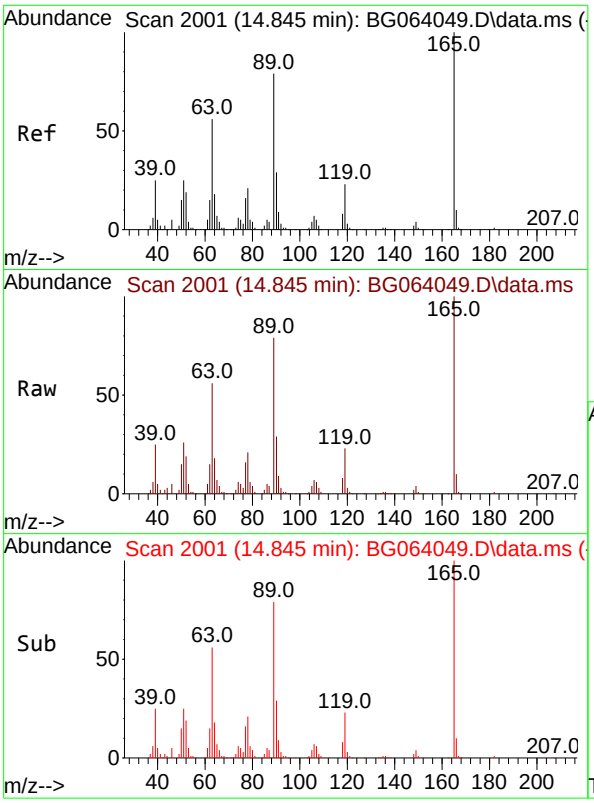


#56
4-Nitrophenol
Concen: 42.977 ng
RT: 14.692 min Scan# 1975
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:139 Resp: 58316

Ion	Ratio	Lower	Upper
139	100		
109	94.9	74.9	114.9
65	126.8	106.8	146.8

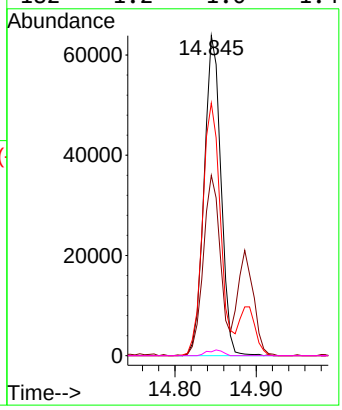




#57
2,4-Dinitrotoluene
Concen: 39.789 ng
RT: 14.845 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:165 Resp: 9165

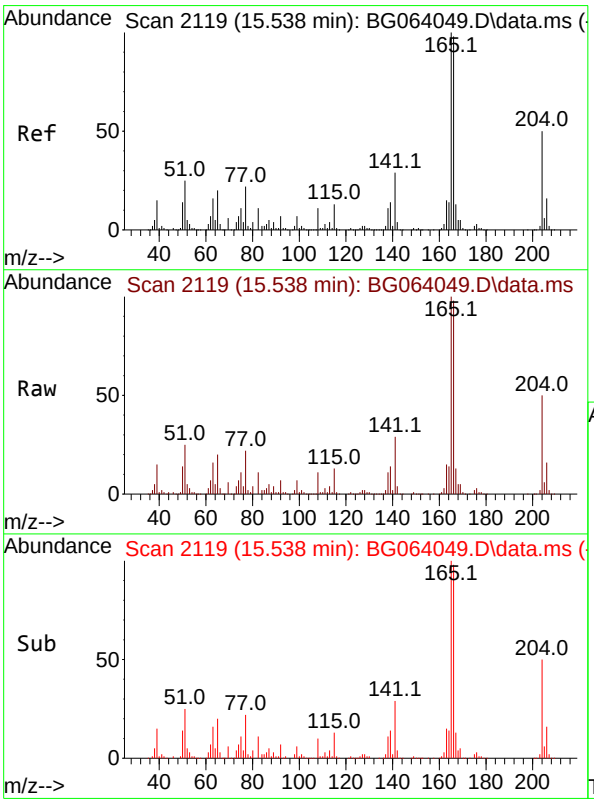
Ion	Ratio	Lower	Upper
165	100		
63	56.3	45.0	67.6
89	78.9	63.1	94.7
182	1.2	1.0	1.4



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

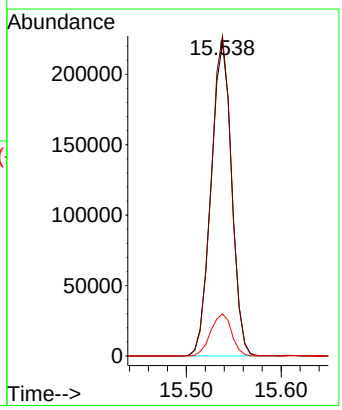
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

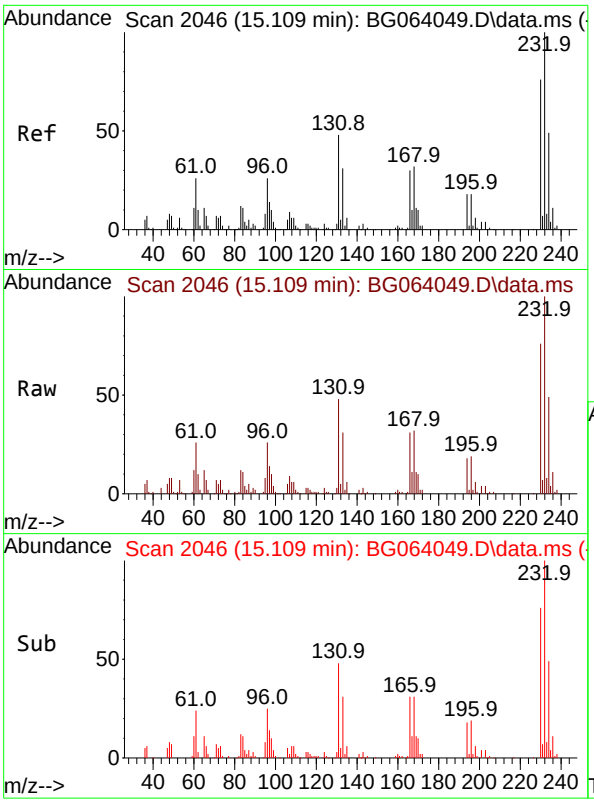


#58
Fluorene
Concen: 40.055 ng
RT: 15.538 min Scan# 2119
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:166 Resp: 335238

Ion	Ratio	Lower	Upper
166	100		
165	102.3	81.8	122.8
167	13.5	10.8	16.2

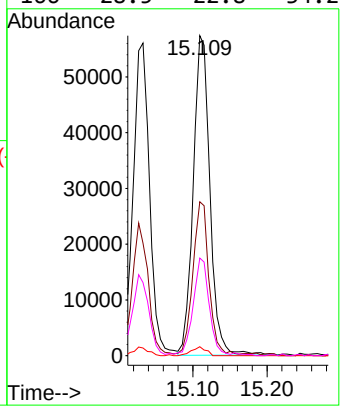




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.345 ng
RT: 15.109 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:232 Resp: 8959

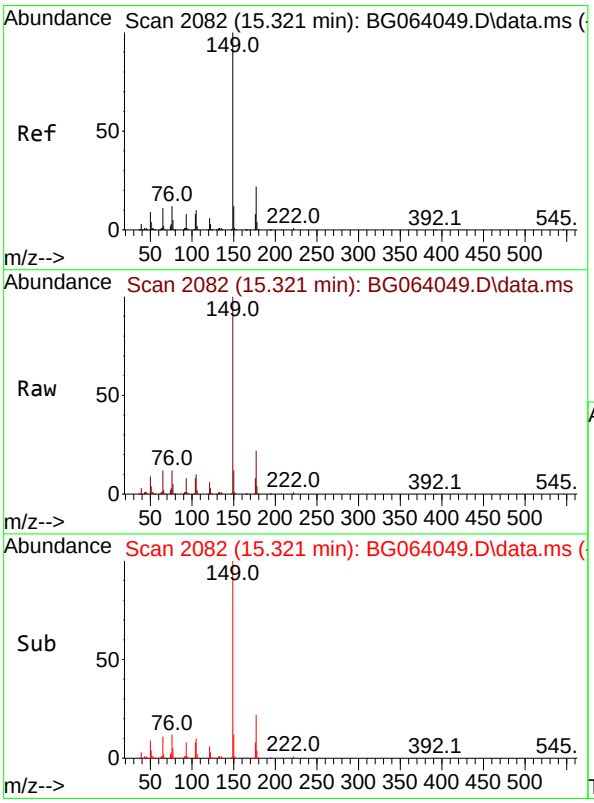
Ion	Ratio	Lower	Upper
232	100		
131	45.4	36.3	54.5
130	2.4	1.9	2.9
166	28.5	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

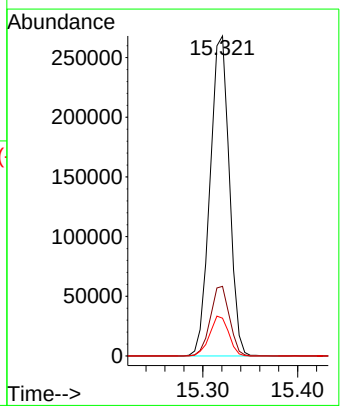
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

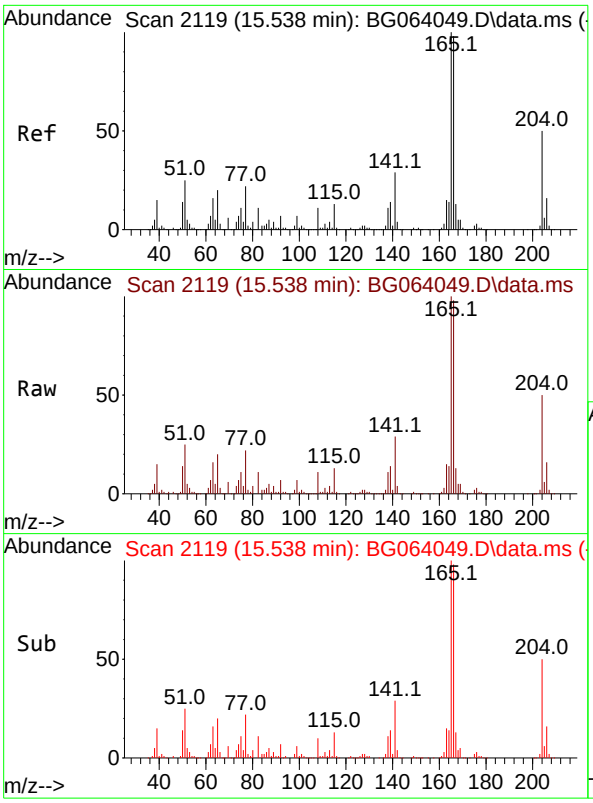


#60
Diethylphthalate
Concen: 41.645 ng
RT: 15.321 min Scan# 2082
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 378464

Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.4	26.2
150	11.8	9.4	14.2

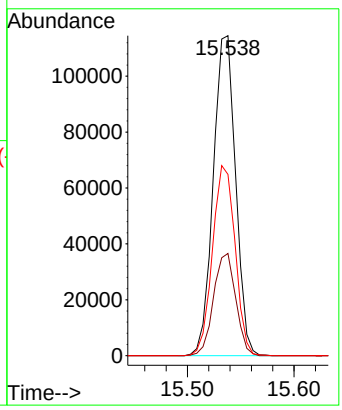




#61
4-Chlorophenyl-phenylether
Concen: 40.061 ng
RT: 15.538 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:204 Resp: 16661

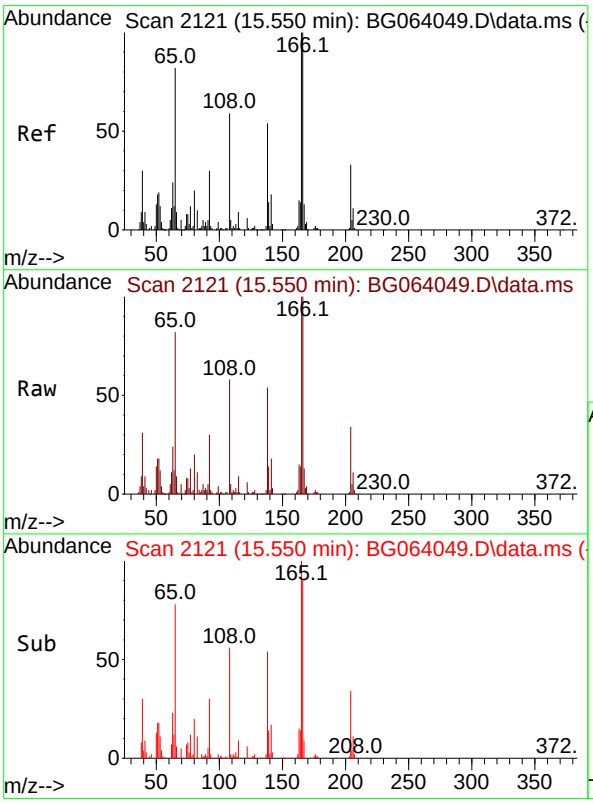
Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.5	38.3
141	56.7	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

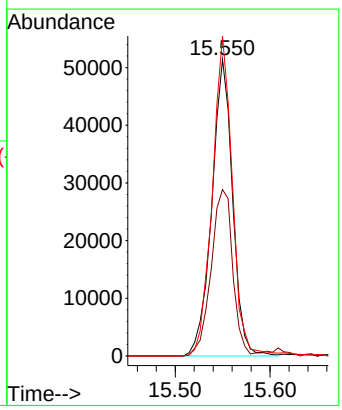
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

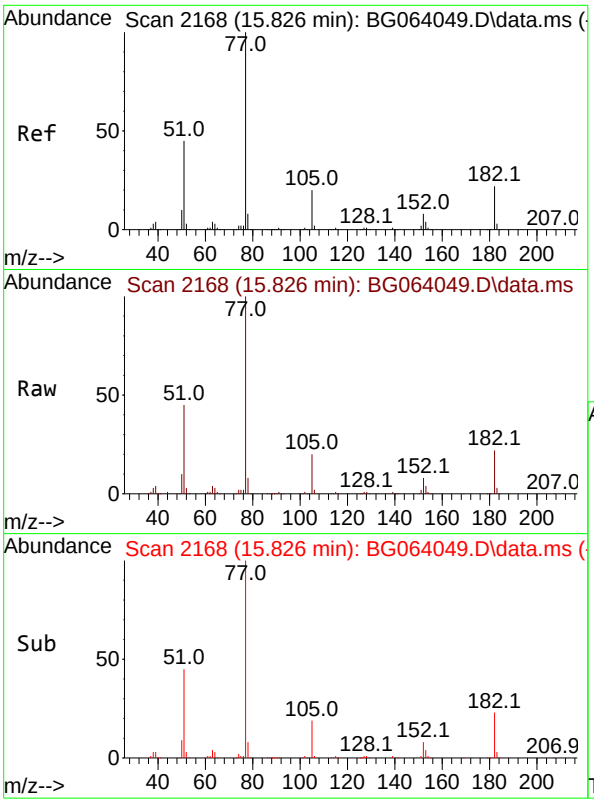


#62
4-Nitroaniline
Concen: 44.838 ng
RT: 15.550 min Scan# 2121
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:138 Resp: 78323

Ion	Ratio	Lower	Upper
138	100		
92	56.1	36.1	76.1
108	107.9	87.9	127.9

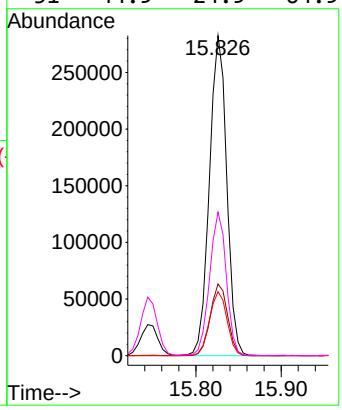




#63
Azobenzene
Concen: 41.125 ng
RT: 15.826 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion: 77 Resp: 39881

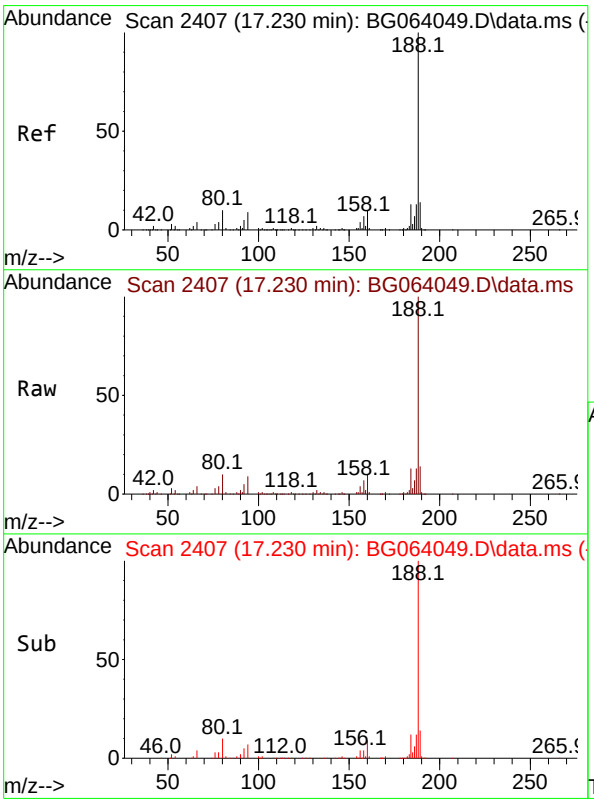
Ion	Ratio	Lower	Upper
77	100		
182	22.4	2.4	42.4
105	20.0	0.0	40.0
51	44.9	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

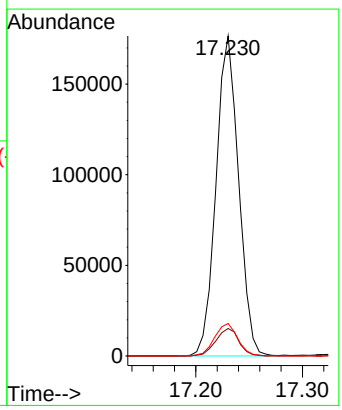
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

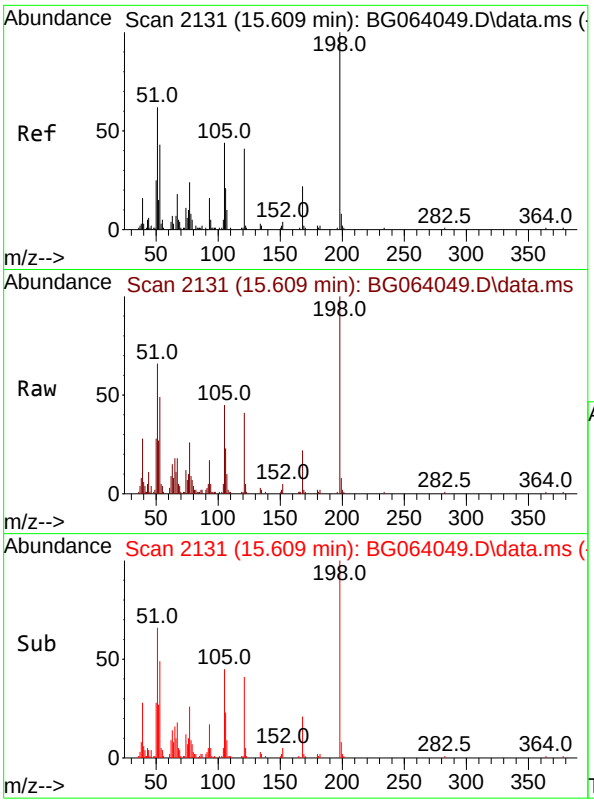


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.230 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:188 Resp: 259291

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.9	10.3
80	10.1	8.1	12.1

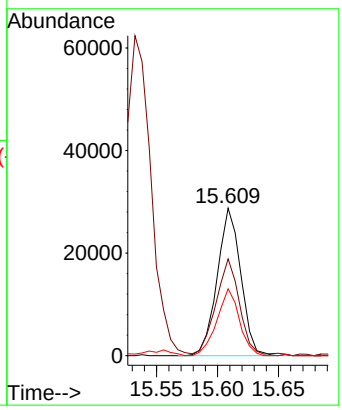




#65
4,6-Dinitro-2-methylphenol
Concen: 36.802 ng
RT: 15.609 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:198 Resp: 3864

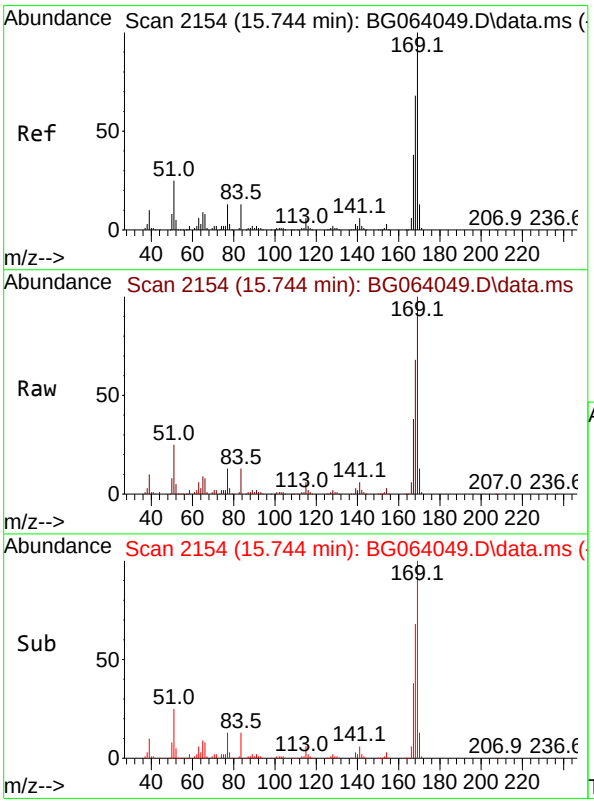
Ion	Ratio	Lower	Upper
198	100		
51	65.6	45.6	85.6
105	45.3	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

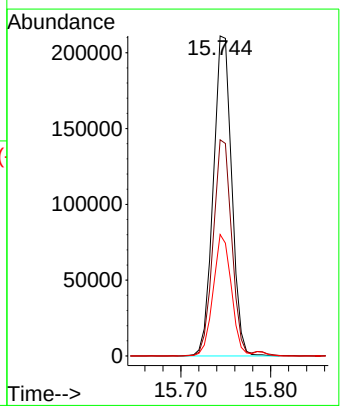
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

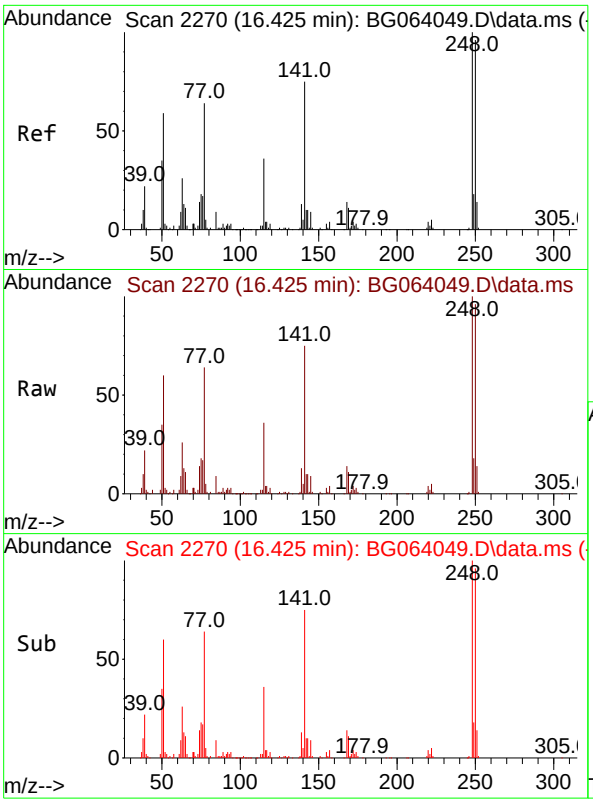


#66
n-Nitrosodiphenylamine
Concen: 40.872 ng
RT: 15.744 min Scan# 2154
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:169 Resp: 299980

Ion	Ratio	Lower	Upper
169	100		
168	67.6	54.1	81.1
167	37.9	30.3	45.5

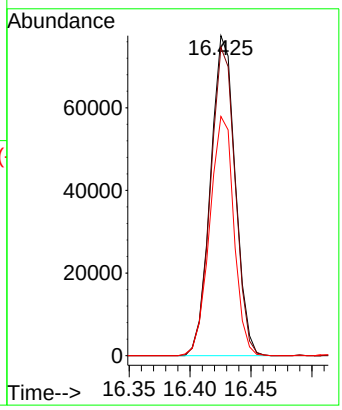




#67
4-Bromophenyl-phenylether
Concen: 41.081 ng
RT: 16.425 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:248 Resp: 10909

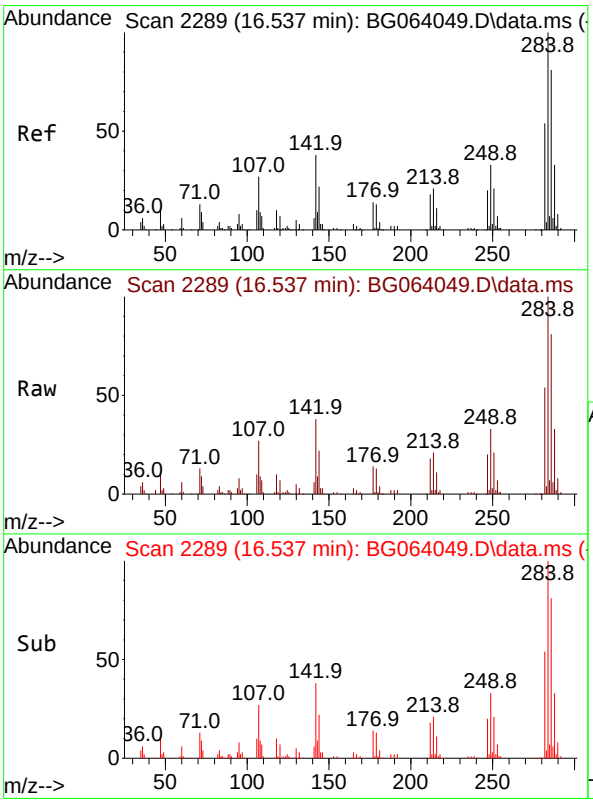
Ion	Ratio	Lower	Upper
248	100		
250	96.4	77.1	115.7
141	74.8	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

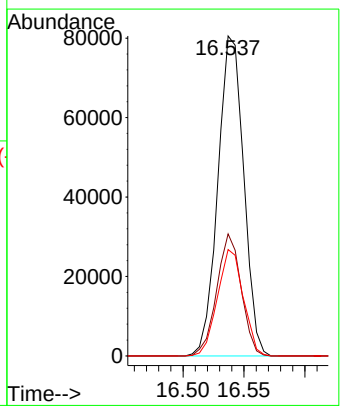
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

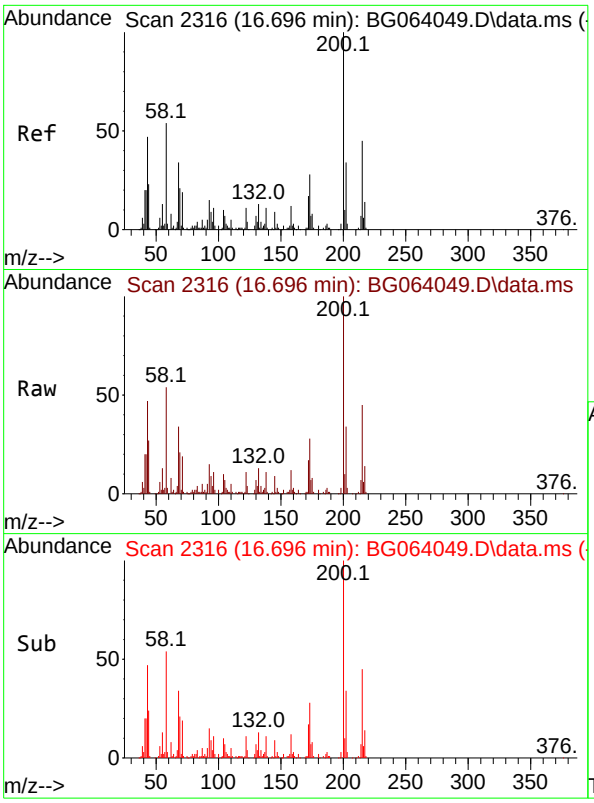


#68
Hexachlorobenzene
Concen: 39.954 ng
RT: 16.537 min Scan# 2289
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:284 Resp: 118787

Ion	Ratio	Lower	Upper
284	100		
142	38.2	30.6	45.8
249	33.2	26.6	39.8

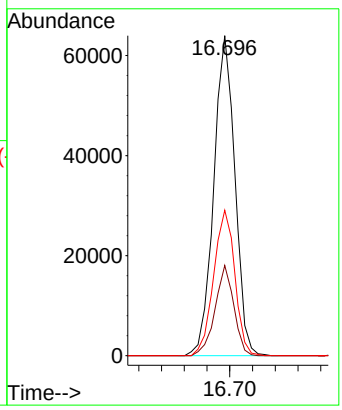




#69
Atrazine
Concen: 38.309 ng
RT: 16.696 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:200 Resp: 8272

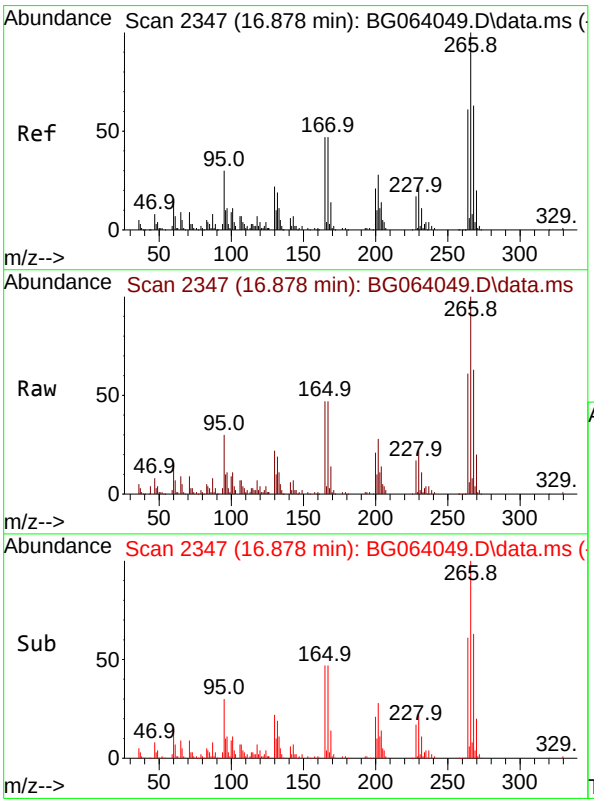
Ion	Ratio	Lower	Upper
200	100		
173	28.2	8.2	48.2
215	45.5	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

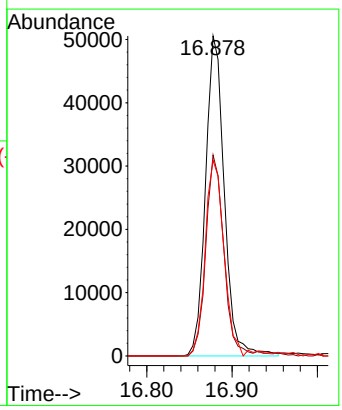
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

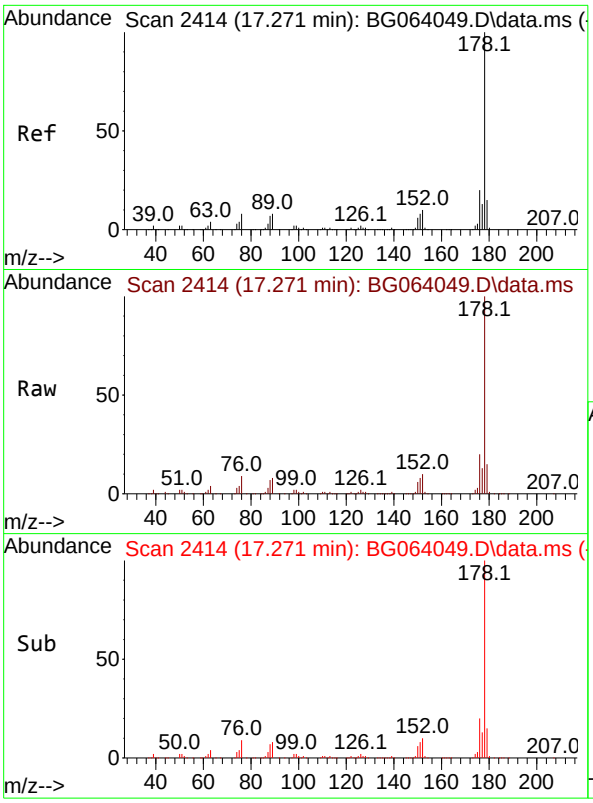


#70
Pentachlorophenol
Concen: 41.856 ng
RT: 16.878 min Scan# 2347
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:266 Resp: 77264

Ion	Ratio	Lower	Upper
266	100		
268	62.8	50.2	75.4
264	61.1	48.9	73.3

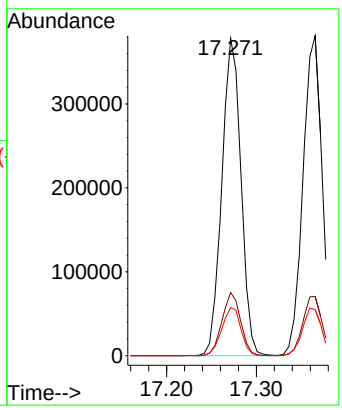




#71
Phenanthrene
Concen: 40.505 ng
RT: 17.271 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:178 Resp: 56018

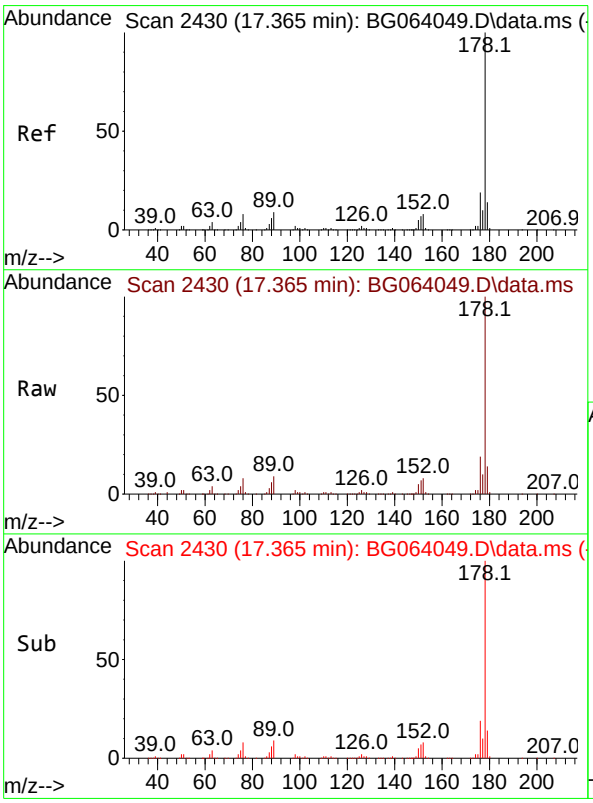
Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.9	23.9
179	15.2	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

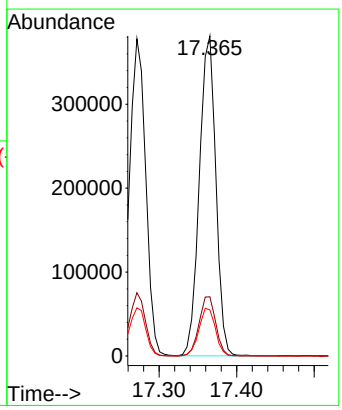
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

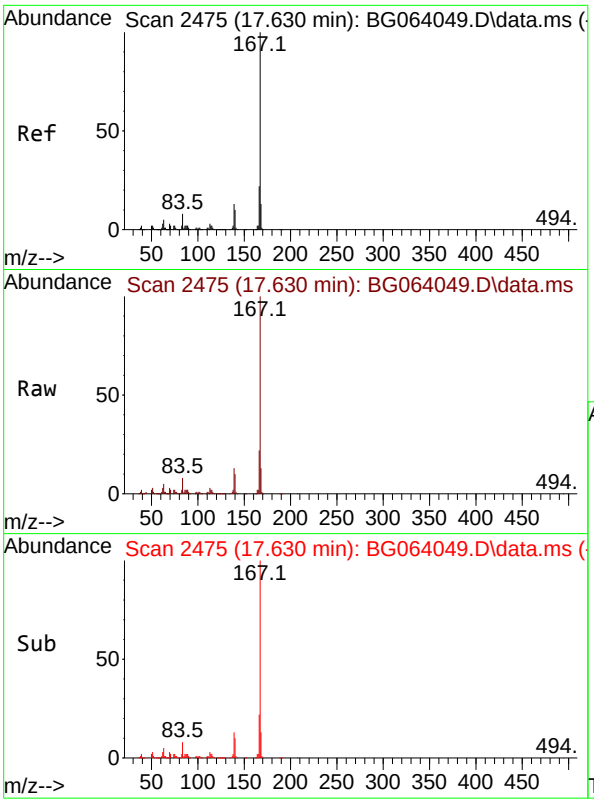


#72
Anthracene
Concen: 40.932 ng
RT: 17.365 min Scan# 2430
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:178 Resp: 562891

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.8	22.2
179	14.4	11.5	17.3

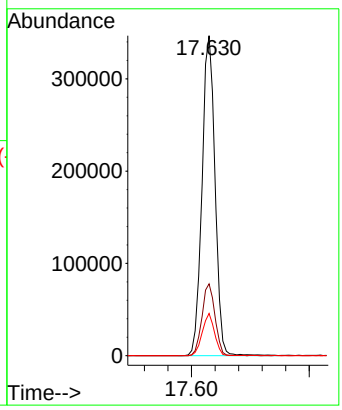




#73
Carbazole
Concen: 41.470 ng
RT: 17.630 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:167 Resp: 53246

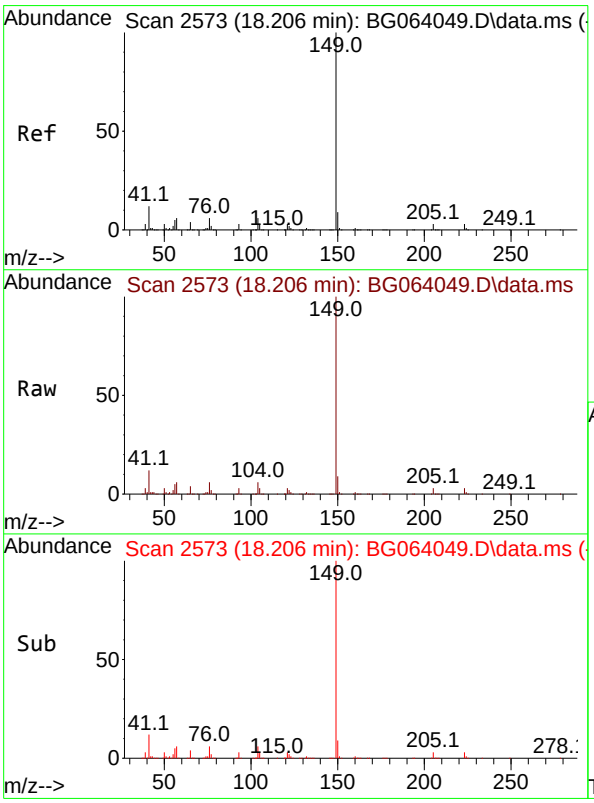
Ion	Ratio	Lower	Upper
167	100		
166	22.5	18.0	27.0
139	13.2	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

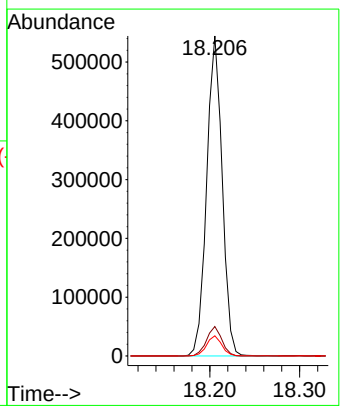
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

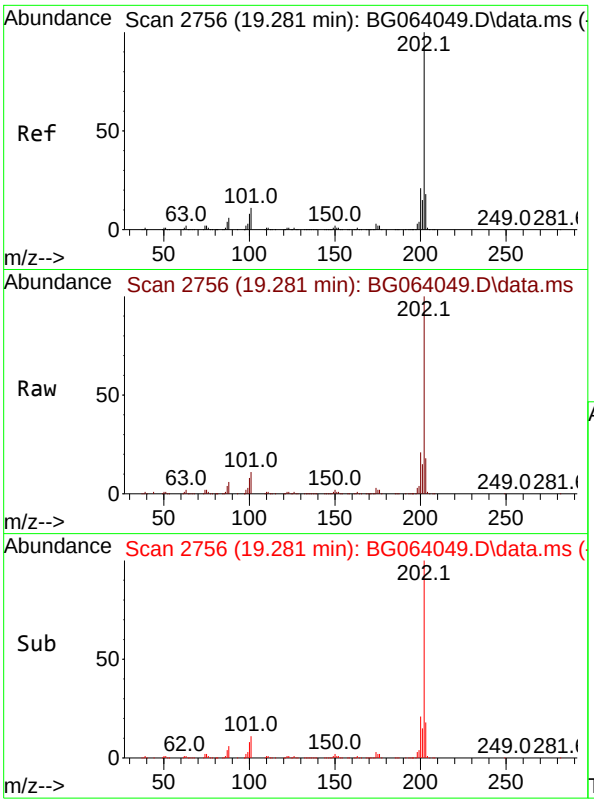


#74
Di-n-butylphthalate
Concen: 43.141 ng
RT: 18.206 min Scan# 2573
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 652013

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	6.3	5.0	7.6

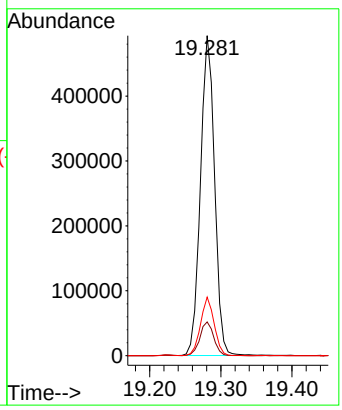




#75
Fluoranthene
Concen: 41.004 ng
RT: 19.281 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:202 Resp: 68366

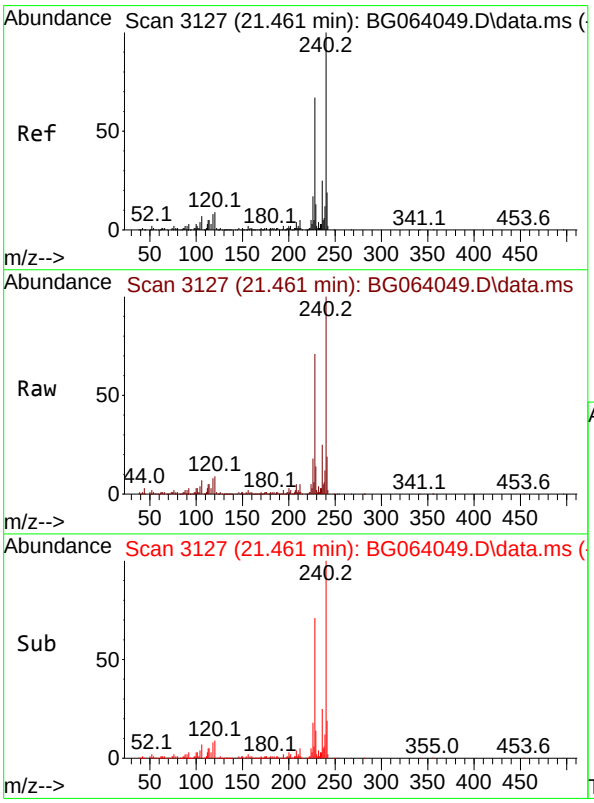
Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.5
203	18.3	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

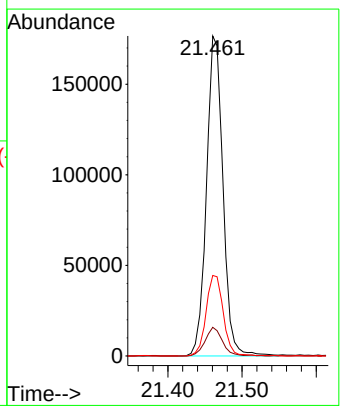
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

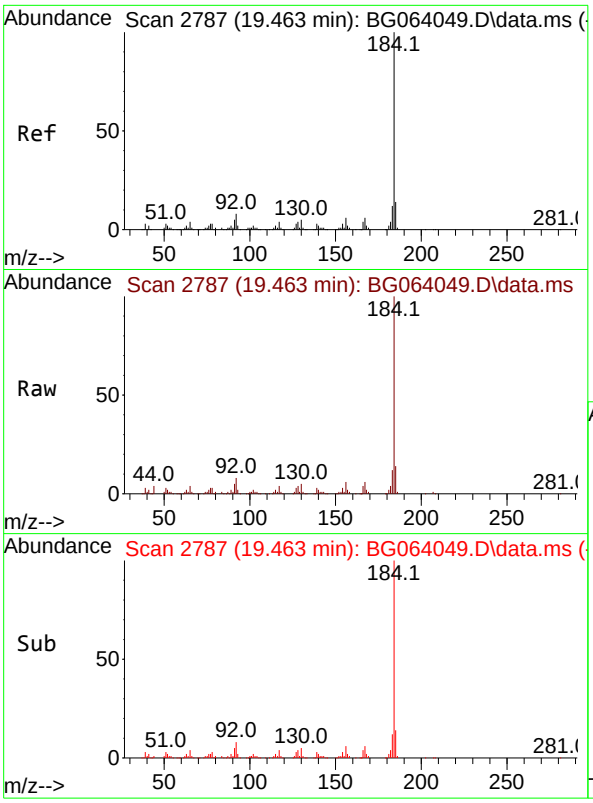


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.461 min Scan# 3127
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:240 Resp: 272676

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.2	10.8
236	25.2	20.2	30.2

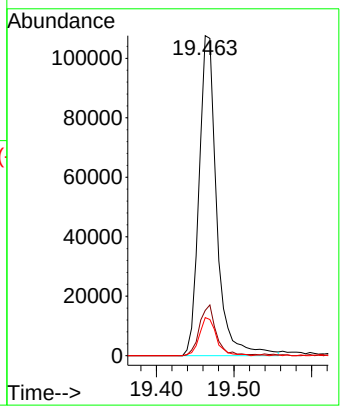




#77
Benzidine
Concen: 44.641 ng
RT: 19.463 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:184 Resp: 17088

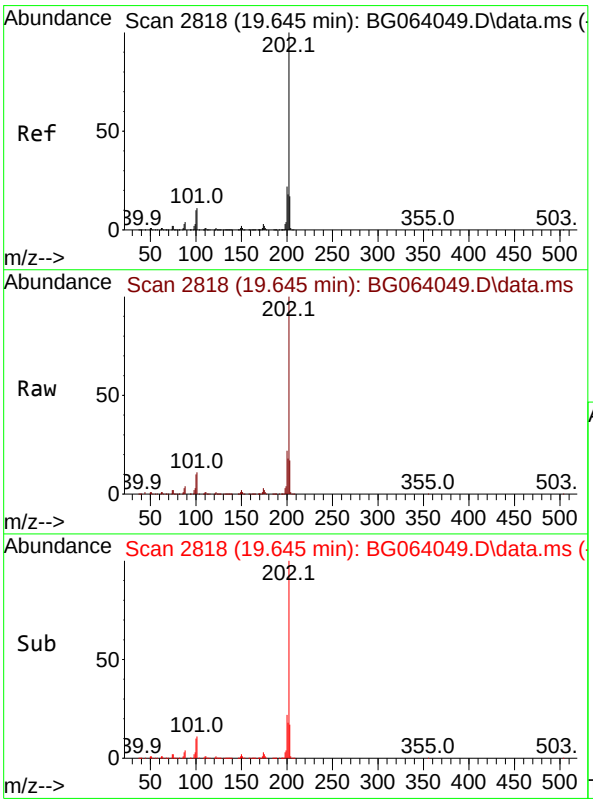
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.3	16.9
183	11.9	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

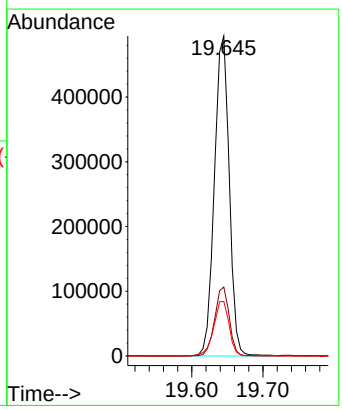
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

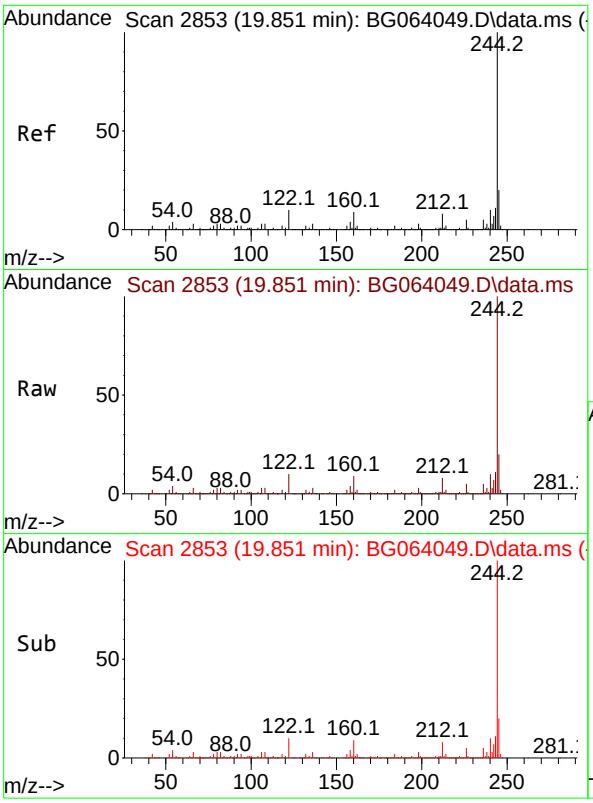


#78
Pyrene
Concen: 40.653 ng
RT: 19.645 min Scan# 2818
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:202 Resp: 714571

Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.3	25.9
203	17.0	13.6	20.4





#79
Terphenyl-d14
Concen: 80.801 ng
RT: 19.851 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

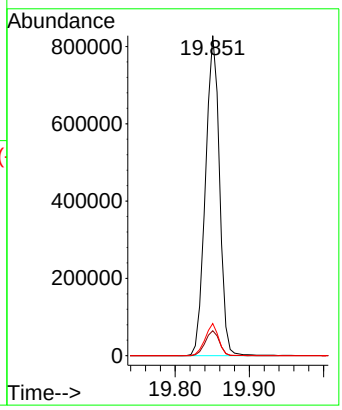
Tgt Ion:244 Resp: 108964

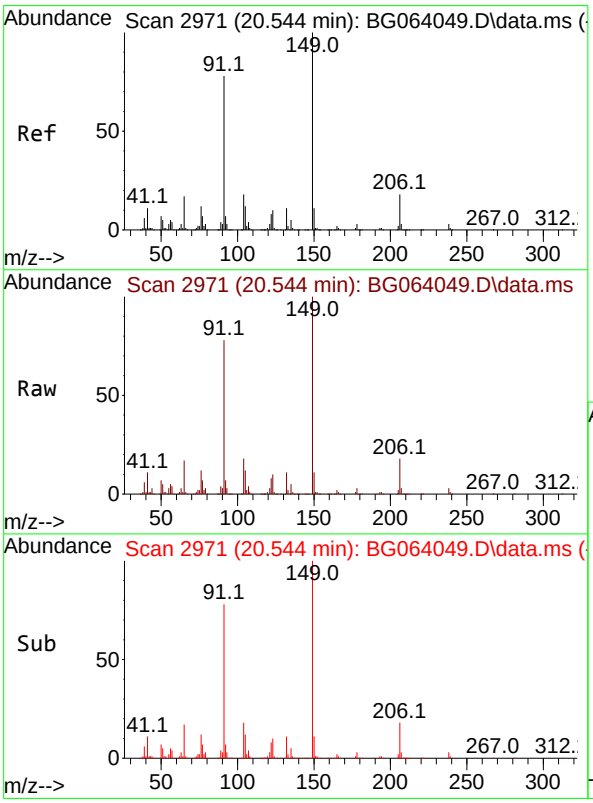
Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.2	9.4
122	10.0	8.0	12.0

Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

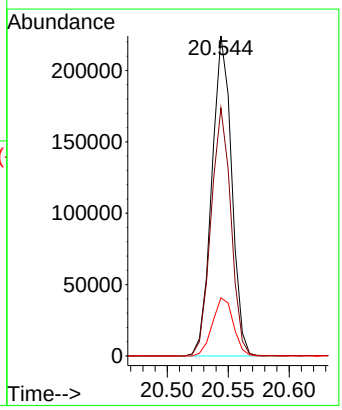


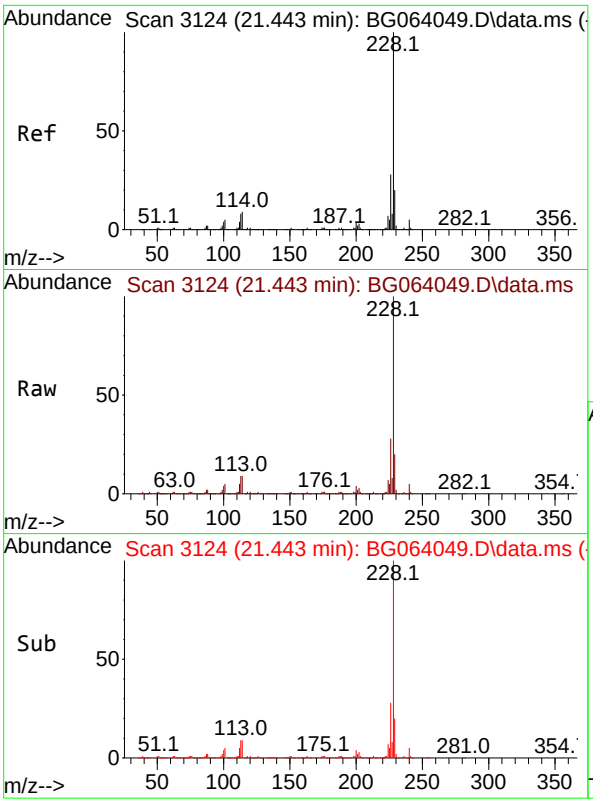


#80
Butylbenzylphthalate
Concen: 39.178 ng
RT: 20.544 min Scan# 2971
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 253637

Ion	Ratio	Lower	Upper
149	100		
91	77.5	62.0	93.0
206	18.2	14.6	21.8

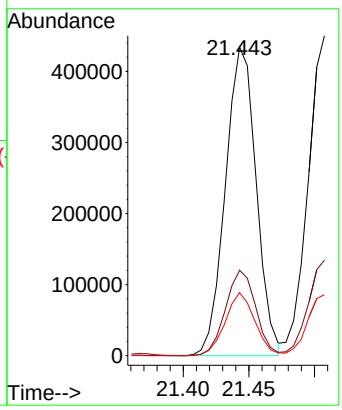




#81
Benzo(a)anthracene
Concen: 40.681 ng
RT: 21.443 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:228 Resp: 71057

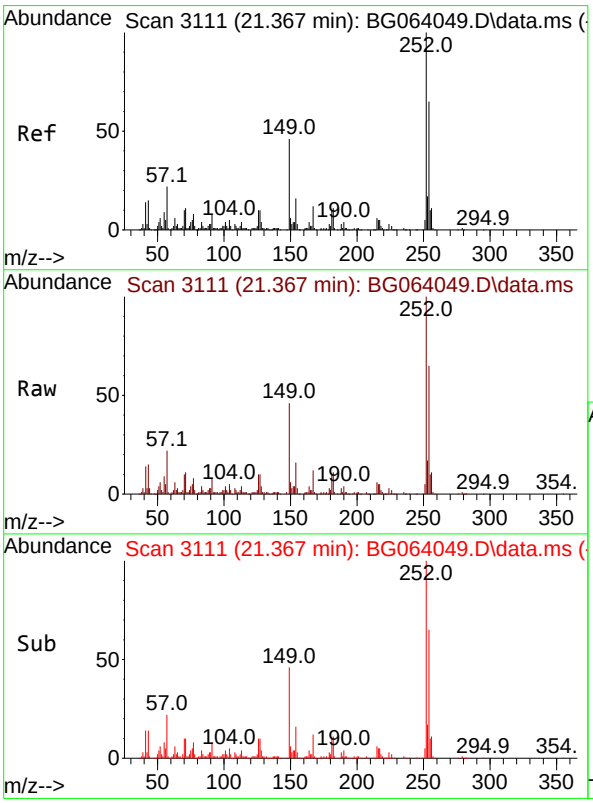
Ion	Ratio	Lower	Upper
228	100		
226	27.7	22.2	33.2
229	20.5	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

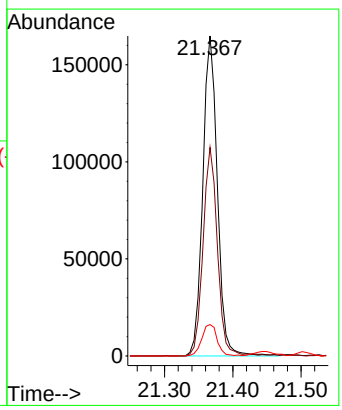
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

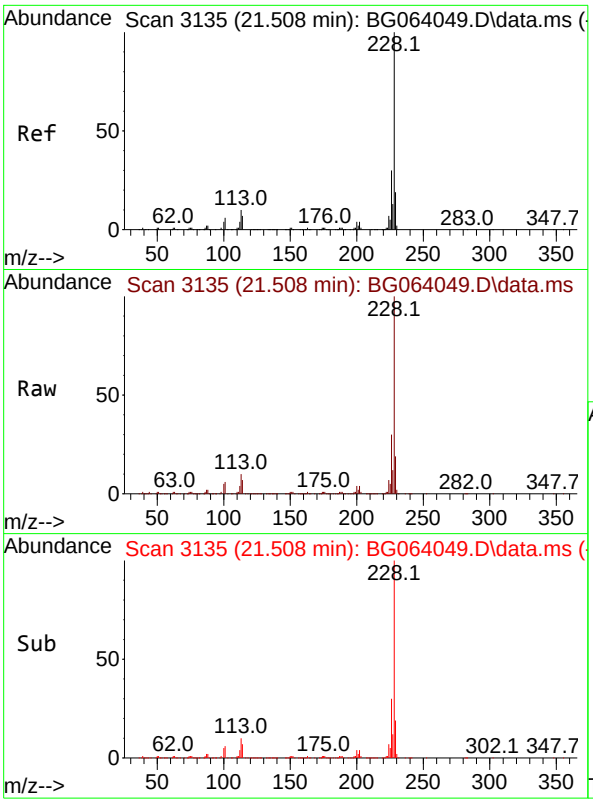


#82
3,3'-Dichlorobenzidine
Concen: 43.385 ng
RT: 21.367 min Scan# 3111
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 245252

Ion	Ratio	Lower	Upper
252	100		
254	65.1	52.1	78.1
126	9.8	7.8	11.8

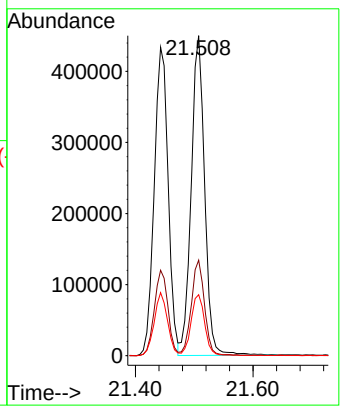




#83
Chrysene
Concen: 40.888 ng
RT: 21.508 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:228 Resp: 71231

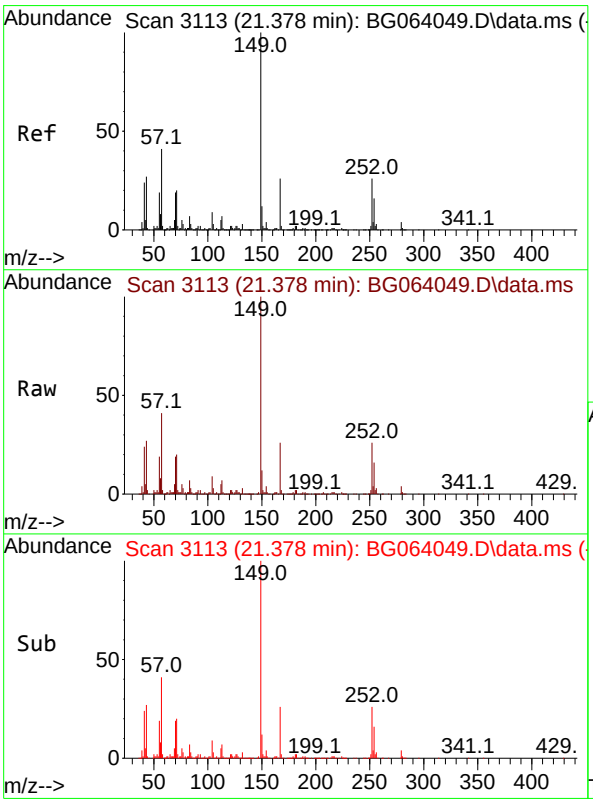
Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.1	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

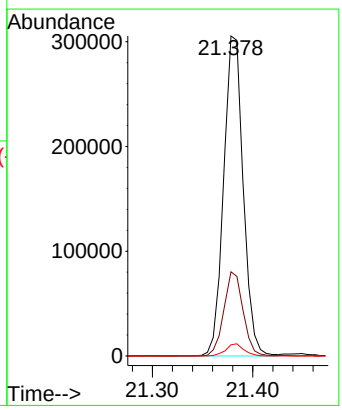
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

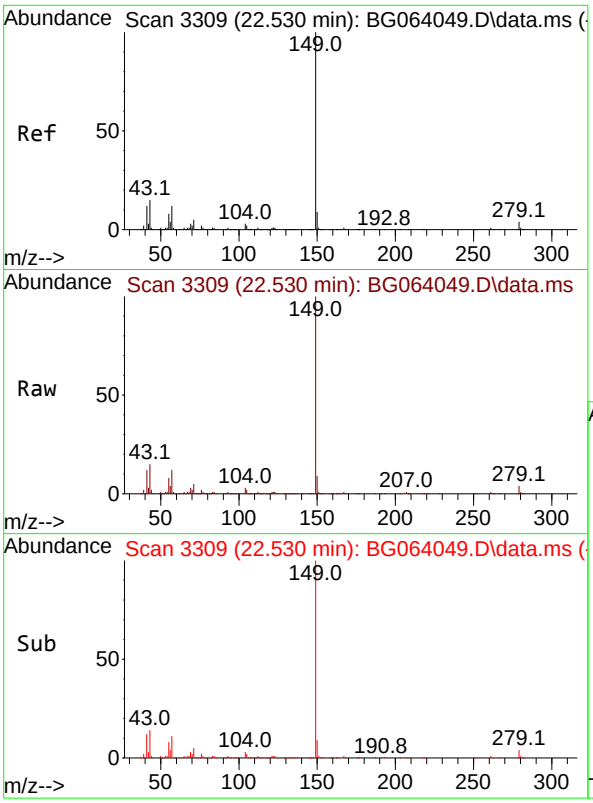


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.709 ng
RT: 21.378 min Scan# 3113
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 412893

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.6
279	3.5	2.8	4.2

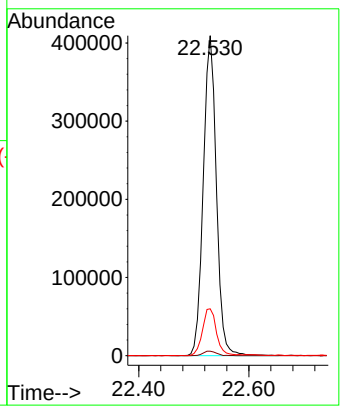




#85
Di-n-octyl phthalate
Concen: 41.459 ng
RT: 22.530 min Scan# 3
Delta R.T. -0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:149 Resp: 67551

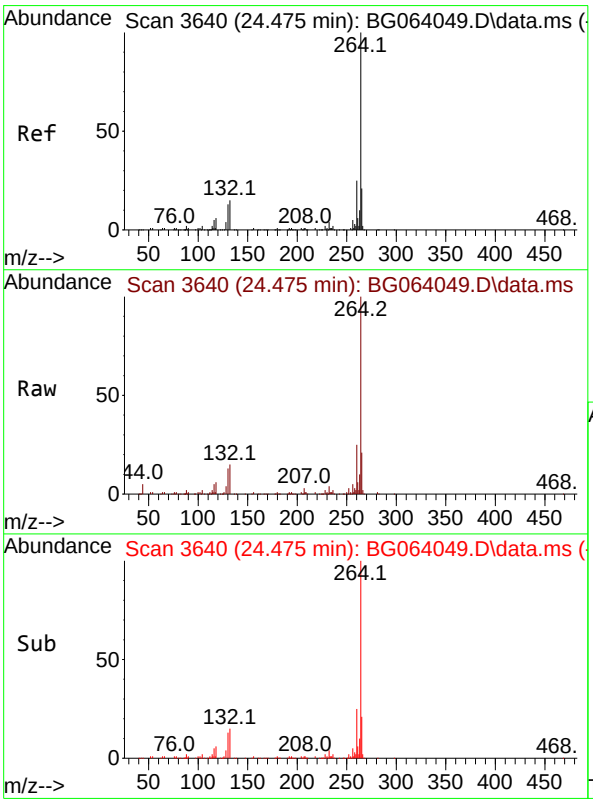
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	15.8	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

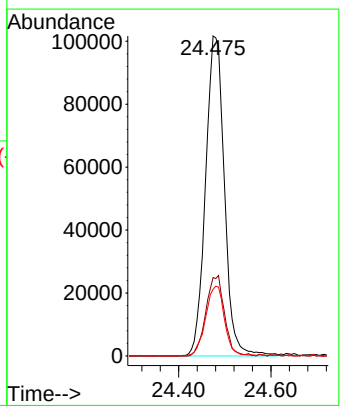
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

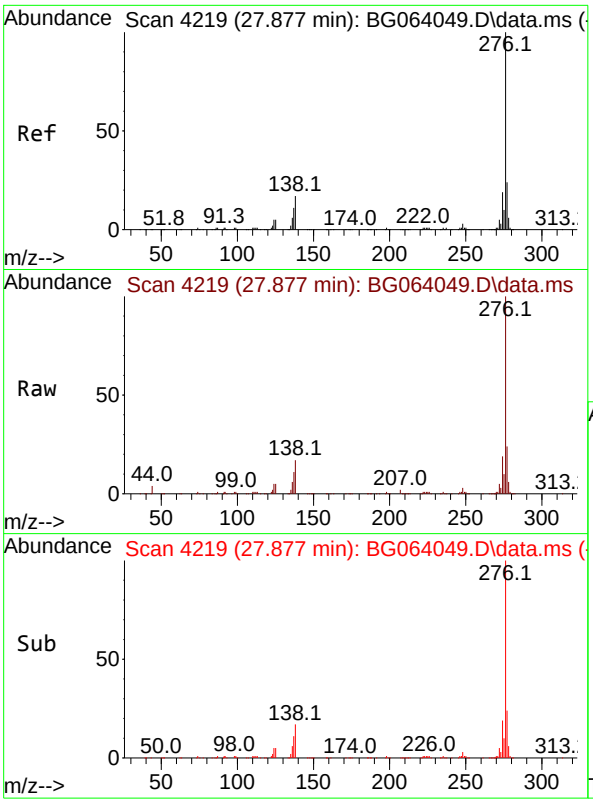


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.475 min Scan# 3640
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:264 Resp: 289801

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.6	29.4
265	20.8	16.6	25.0

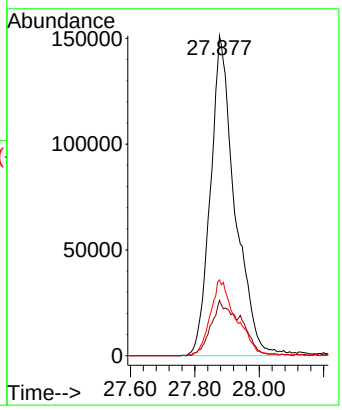




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.124 ng
RT: 27.877 min Scan# 4
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:276 Resp: 79738

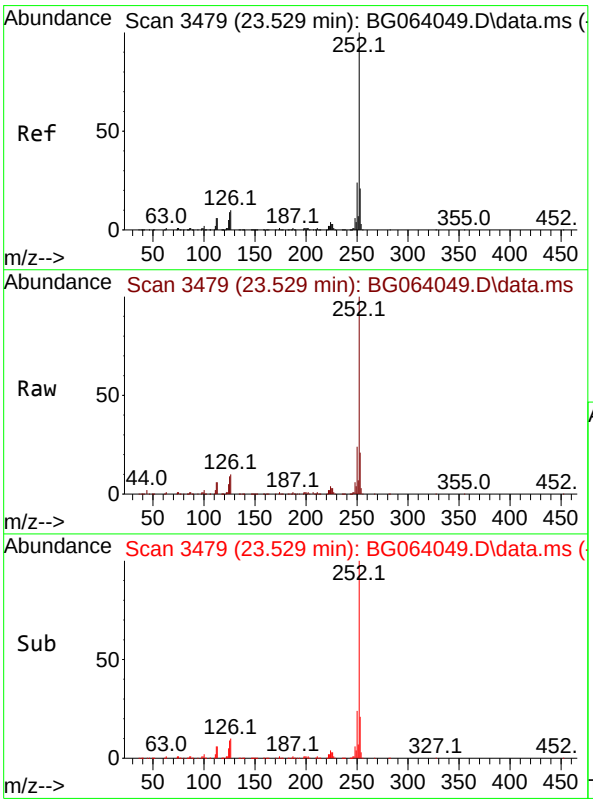
Ion	Ratio	Lower	Upper
276	100		
138	15.1	12.1	18.1
277	25.0	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

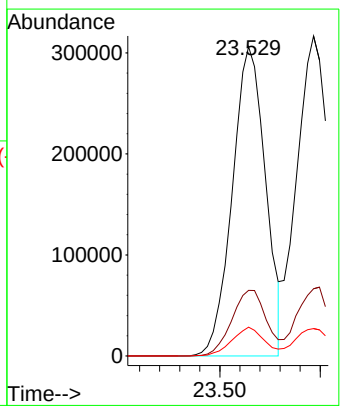
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

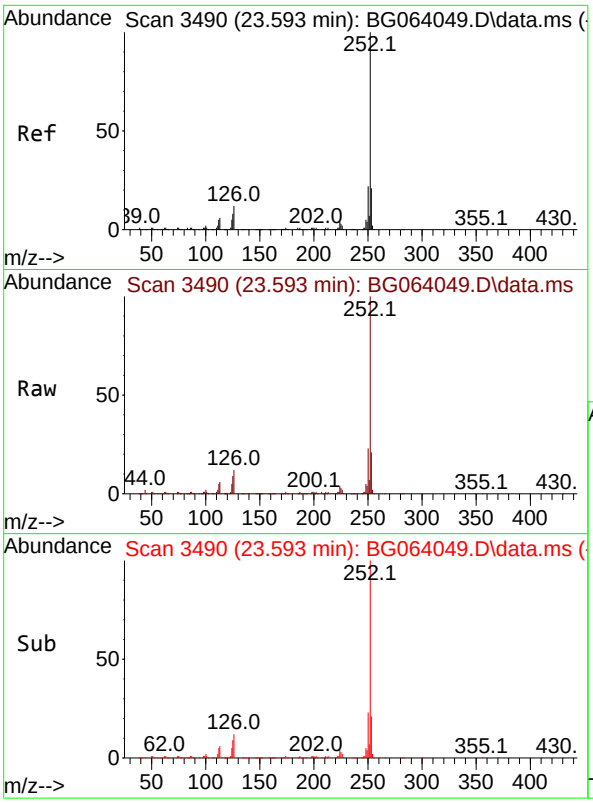


#88
Benzo(b)fluoranthene
Concen: 40.217 ng
RT: 23.529 min Scan# 3479
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 704588

Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.0	25.4
125	9.3	7.4	11.2

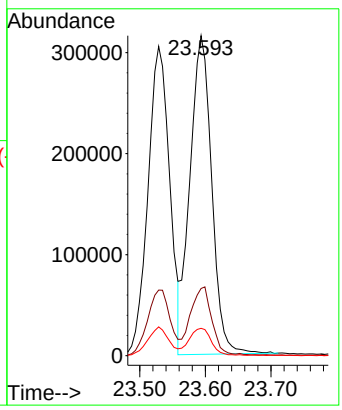




#89
Benzo(k)fluoranthene
Concen: 41.391 ng
RT: 23.593 min Scan# 34
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 72746

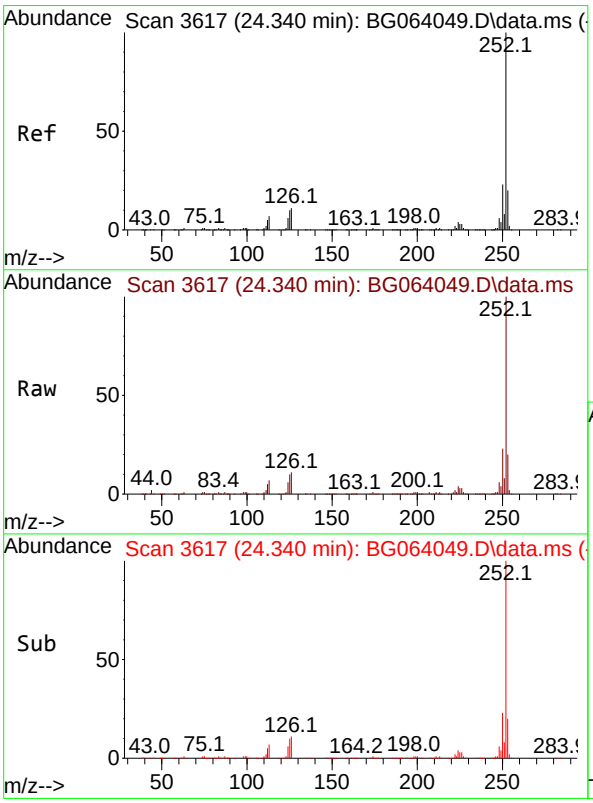
Ion	Ratio	Lower	Upper
252	100		
253	21.0	16.8	25.2
125	8.6	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

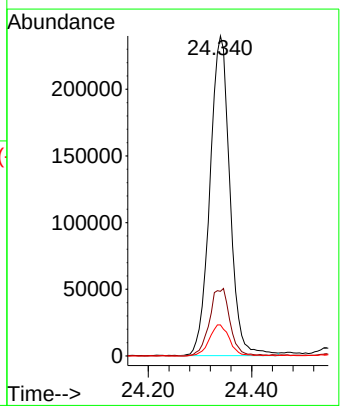
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

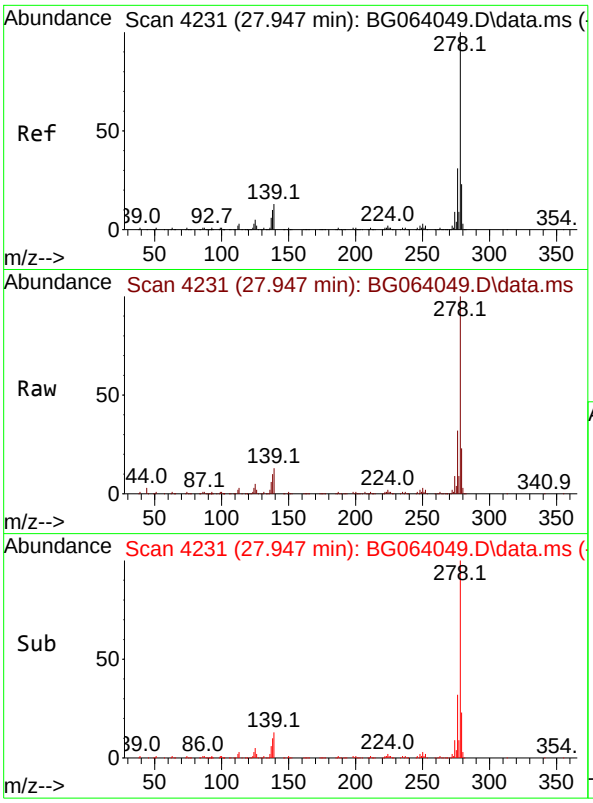


#90
Benzo(a)pyrene
Concen: 41.134 ng
RT: 24.340 min Scan# 3617
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:252 Resp: 641802

Ion	Ratio	Lower	Upper
252	100		
253	20.2	16.2	24.2
125	9.7	7.8	11.6

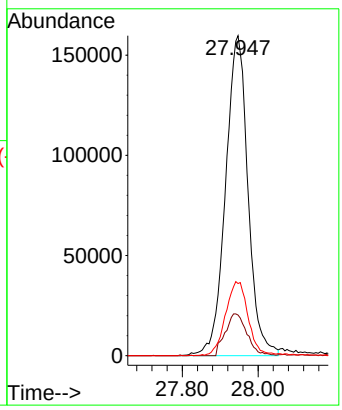




#91
Dibenzo(a,h)anthracene
Concen: 40.836 ng
RT: 27.947 min Scan# 4
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:278 Resp: 65643

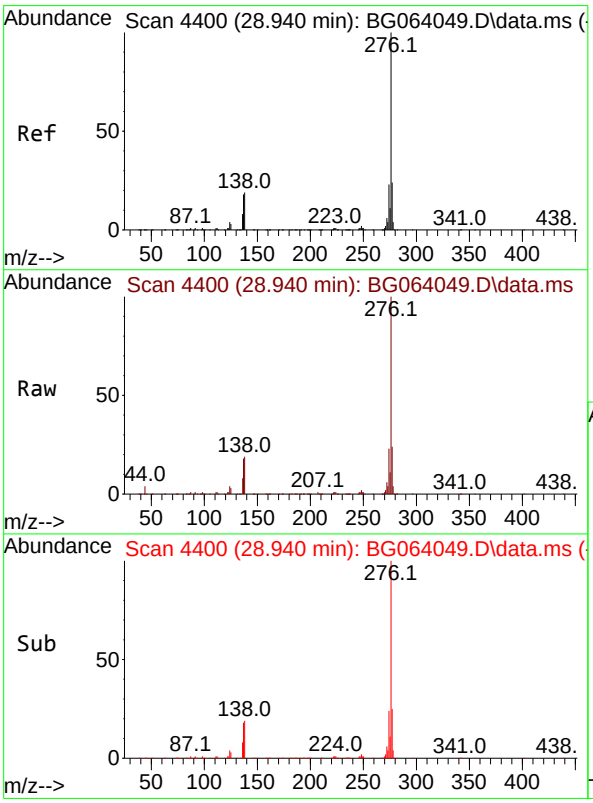
Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.2	15.2
279	22.6	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

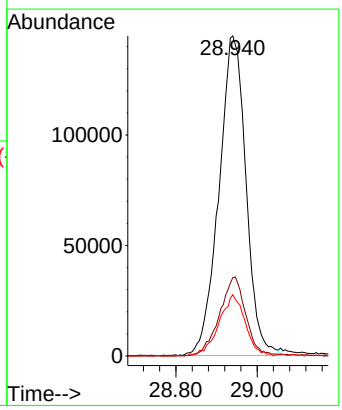
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 40.469 ng
RT: 28.940 min Scan# 4400
Delta R.T. 0.000 min
Lab File: BG064049.D
Acq: 5 Mar 2025 11:43

Tgt Ion:276 Resp: 667911

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.5	29.3
138	19.2	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064050.D
Acq On : 5 Mar 2025 12:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 05 15:24:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.865	152	38040	20.000	ng	0.00
21) Naphthalene-d8	10.656	136	162322	20.000	ng	0.00
39) Acenaphthene-d10	14.487	164	110522	20.000	ng	0.00
64) Phenanthrene-d10	17.231	188	254221	20.000	ng	0.00
76) Chrysene-d12	21.467	240	272579	20.000	ng	0.00
86) Perylene-d12	24.475	264	286555	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.451	112	239407	98.271	ng	0.00
7) Phenol-d6	7.031	99	323841	97.714	ng	0.00
23) Nitrobenzene-d5	9.017	82	316407	107.720	ng	0.00
42) 2,4,6-Tribromophenol	15.974	330	133386	108.574	ng	0.00
45) 2-Fluorobiphenyl	13.118	172	708865	97.354	ng	0.00
79) Terphenyl-d14	19.851	244	1286263	95.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.377	88	53145	48.134	ng	98
3) Pyridine	3.764	79	127257	47.393	ng	97
4) n-Nitrosodimethylamine	3.682	42	94714	49.369	ng	93
6) Aniline	7.196	93	156110	48.003	ng	99
8) 2-Chlorophenol	7.431	128	126814	48.467	ng	100
9) Benzaldehyde	7.008	77	81796	42.223	ng	95
10) Phenol	7.060	94	166630	49.107	ng	97
11) bis(2-Chloroethyl)ether	7.290	93	125734	47.264	ng	99
12) 1,3-Dichlorobenzene	7.760	146	136763	47.598	ng	95
13) 1,4-Dichlorobenzene	7.901	146	140578	47.733	ng	98
14) 1,2-Dichlorobenzene	8.218	146	134631	47.407	ng	96
15) Benzyl Alcohol	8.100	79	129182	50.441	ng	93
16) 2,2'-oxybis(1-Chloropr...	8.394	45	284947	47.637	ng	100
17) 2-Methylphenol	8.300	107	111405	49.469	ng	97
18) Hexachloroethane	8.947	117	50035	48.558	ng	91
19) n-Nitroso-di-n-propyla...	8.670	70	113111	48.631	ng	98
20) 3+4-Methylphenols	8.629	107	153346	49.461	ng	97
22) Acetophenone	8.682	105	221424	49.752	ng	99
24) Nitrobenzene	9.058	77	160553	52.890	ng	96
25) Isophorone	9.581	82	290768	49.457	ng	97
26) 2-Nitrophenol	9.769	139	52718	49.791	ng	100
27) 2,4-Dimethylphenol	9.828	122	89845	50.976	ng	97
28) bis(2-Chloroethoxy)met...	10.069	93	173244	48.604	ng	96
29) 2,4-Dichlorophenol	10.298	162	117642	52.861	ng	96
30) 1,2,4-Trichlorobenzene	10.521	180	136213	50.701	ng	93
31) Naphthalene	10.703	128	430679	49.204	ng	98
32) Benzoic acid	9.975	122	77326m	47.851	ng	
33) 4-Chloroaniline	10.809	127	159874	49.975	ng	99
34) Hexachlorobutadiene	10.997	225	87623	49.759	ng	96
35) Caprolactam	11.579	113	45779	53.678	ng	92
36) 4-Chloro-3-methylphenol	11.931	107	151419	51.905	ng	97
37) 2-Methylnaphthalene	12.313	142	302745	48.994	ng	96
38) 1-Methylnaphthalene	12.531	142	293710	48.517	ng	99
40) 1,2,4,5-Tetrachloroben...	12.677	216	154824	49.068	ng	97
41) Hexachlorocyclopentadiene	12.666	237	48218	54.295	ng	98
43) 2,4,6-Trichlorophenol	12.918	196	100024	53.786	ng	92

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064050.D
Acq On : 5 Mar 2025 12:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:24:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.989	196	109309	52.900	ng		99
46) 1,1'-Biphenyl	13.324	154	407499	48.802	ng		98
47) 2-Chloronaphthalene	13.365	162	304442	49.991	ng		97
48) 2-Nitroaniline	13.565	65	101610	49.852	ng		96
49) Acenaphthylene	14.211	152	479498	49.779	ng		100
50) Dimethylphthalate	13.952	163	404288	49.555	ng		100
51) 2,6-Dinitrotoluene	14.064	165	82929	49.957	ng		90
52) Acenaphthene	14.558	154	320276m	49.442	ng		
53) 3-Nitroaniline	14.393	138	86456	54.830	ng		100
54) 2,4-Dinitrophenol	14.593	184	30713	48.003	ng		89
55) Dibenzofuran	14.887	168	511922	48.883	ng		99
56) 4-Nitrophenol	14.693	139	77342	58.485	ng		94
57) 2,4-Dinitrotoluene	14.851	165	115455	50.361	ng	#	95
58) Fluorene	15.539	166	401156	49.182	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.110	232	106306	52.772	ng		98
60) Diethylphthalate	15.321	149	448796	50.673	ng		98
61) 4-Chlorophenyl-phenyle...	15.533	204	196685	48.525	ng		93
62) 4-Nitroaniline	15.556	138	96864	56.899	ng		96
63) Azobenzene	15.827	77	469832	49.712	ng		99
65) 4,6-Dinitro-2-methylph...	15.609	198	52142	47.566	ng		92
66) n-Nitrosodiphenylamine	15.744	169	354329	49.240	ng		100
67) 4-Bromophenyl-phenylether	16.426	248	127329	48.903	ng		97
68) Hexachlorobenzene	16.538	284	144717	49.646	ng		97
69) Atrazine	16.696	200	81796	38.632	ng		96
70) Pentachlorophenol	16.878	266	95820	52.943	ng		98
71) Phenanthrene	17.272	178	669776	49.395	ng		99
72) Anthracene	17.360	178	670298	49.714	ng		98
73) Carbazole	17.630	167	640167	50.853	ng		99
74) Di-n-butylphthalate	18.206	149	785487	53.009	ng		100
75) Fluoranthene	19.281	202	824769	50.454	ng		99
77) Benzidine	19.464	184	133122	34.790	ng		99
78) Pyrene	19.646	202	854585	48.636	ng		99
80) Butylbenzylphthalate	20.545	149	322148	48.794	ng		98
81) Benzo(a)anthracene	21.449	228	868997	49.769	ng		96
82) 3,3'-Dichlorobenzidine	21.367	252	283543	50.177	ng		98
83) Chrysene	21.508	228	860924	49.437	ng		99
84) Bis(2-ethylhexyl)phtha...	21.385	149	511903	54.210	ng		100
85) Di-n-octyl phthalate	22.531	149	855727	52.538	ng		100
87) Indeno(1,2,3-cd)pyrene	27.883	276	970339	50.610	ng		98
88) Benzo(b)fluoranthene	23.535	252	882554	50.946	ng		98
89) Benzo(k)fluoranthene	23.600	252	863262	49.673	ng		97
90) Benzo(a)pyrene	24.346	252	792379	51.360	ng		98
91) Dibenzo(a,h)anthracene	27.948	278	812185	51.097	ng		99
92) Benzo(g,h,i)perylene	28.947	276	821282	50.325	ng		99

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

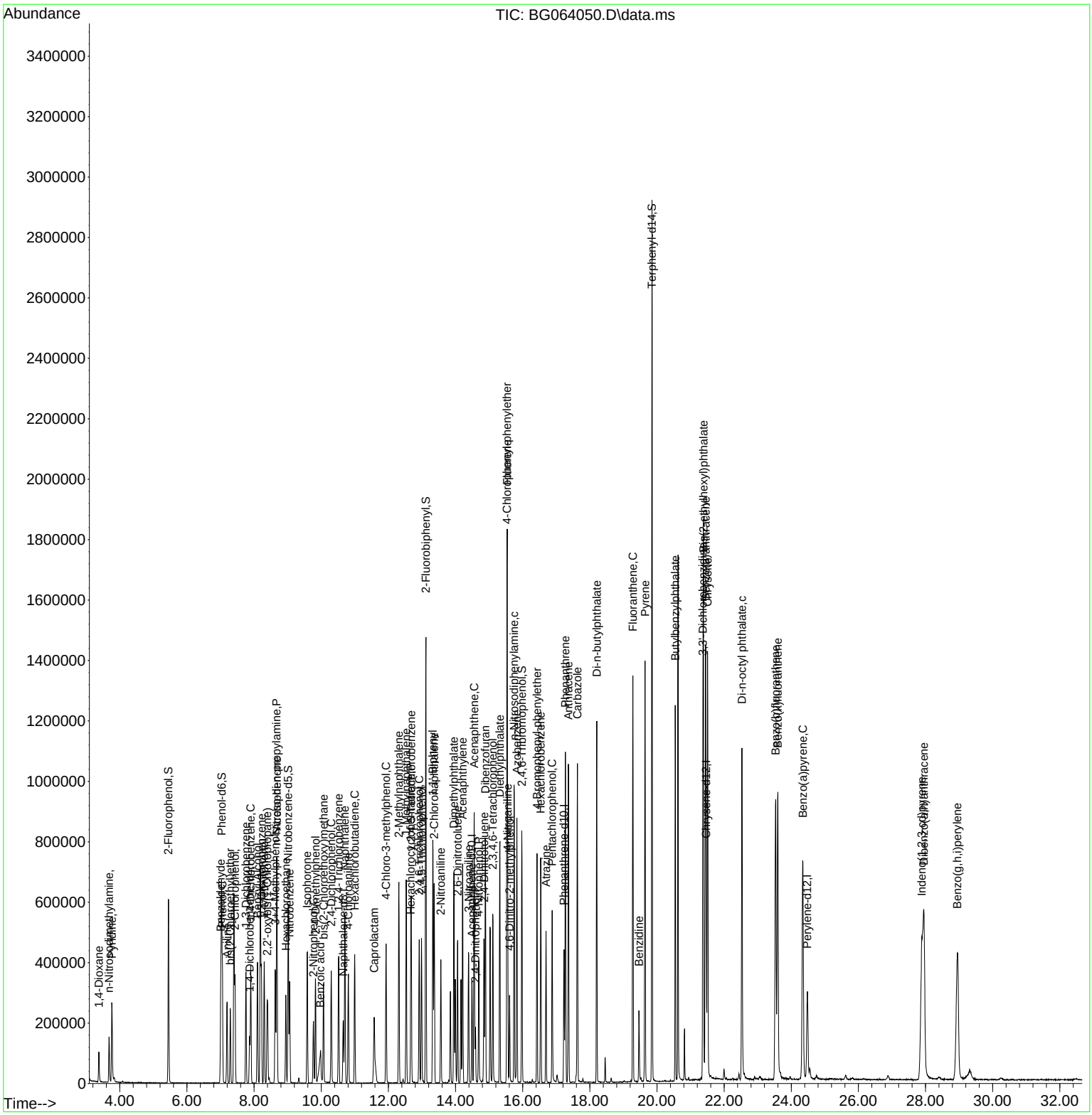
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064050.D
Acq On : 5 Mar 2025 12:23
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

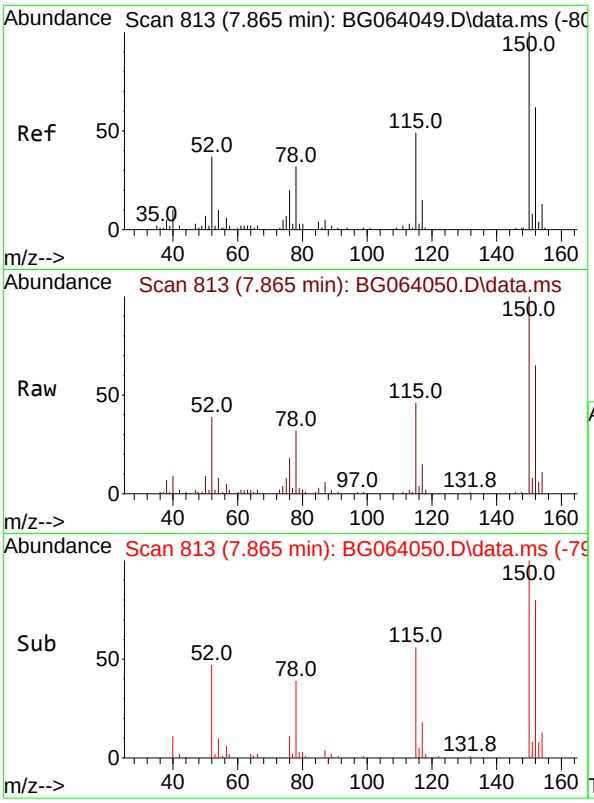
Quant Time: Mar 05 15:24:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

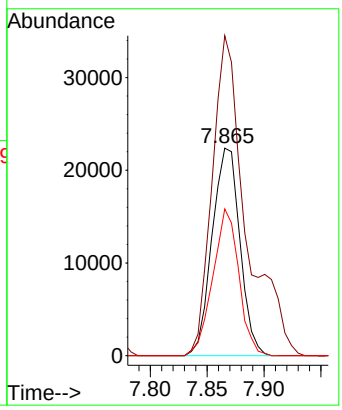




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:152 Resp: 3804

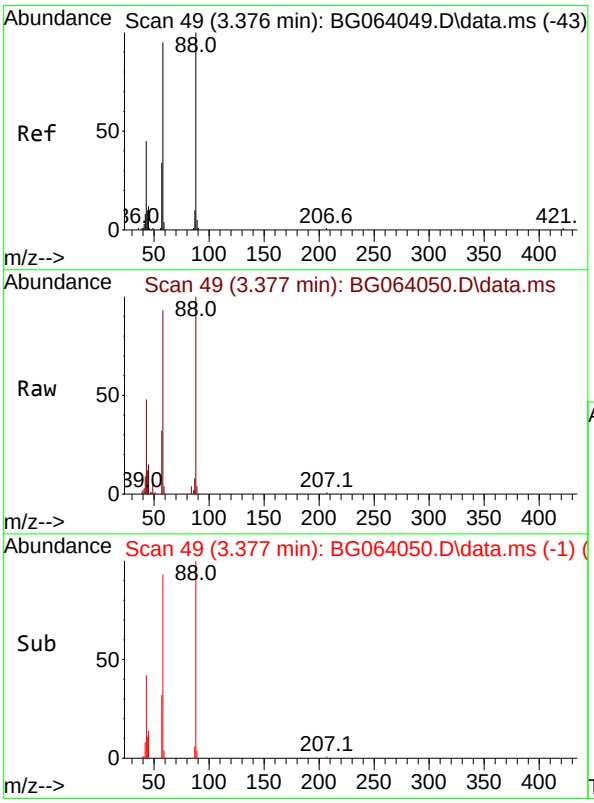
Ion	Ratio	Lower	Upper
152	100		
150	154.2	129.2	193.8
115	70.7	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

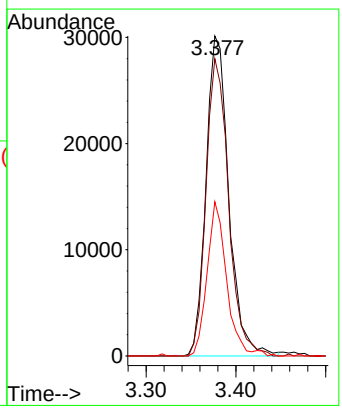
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

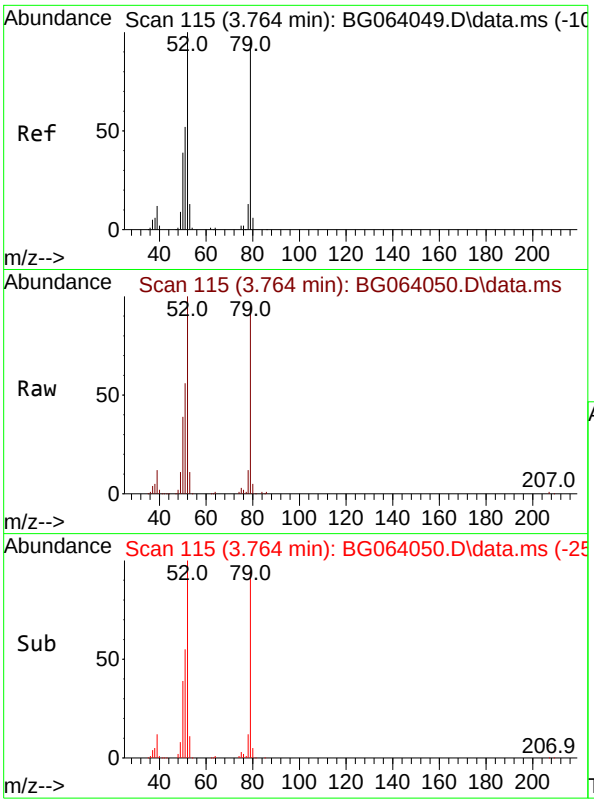


#2
1,4-Dioxane
Concen: 48.134 ng
RT: 3.377 min Scan# 49
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 88 Resp: 53145

Ion	Ratio	Lower	Upper
88	100		
58	91.8	74.6	111.8
43	41.4	35.5	53.3

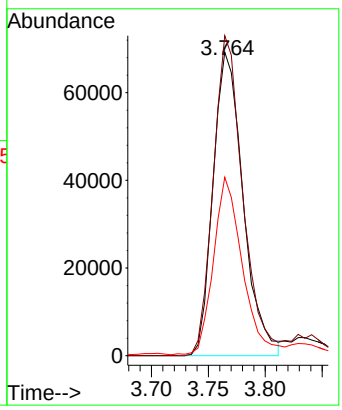




#3
Pyridine
Concen: 47.393 ng
RT: 3.764 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 79 Resp: 12725

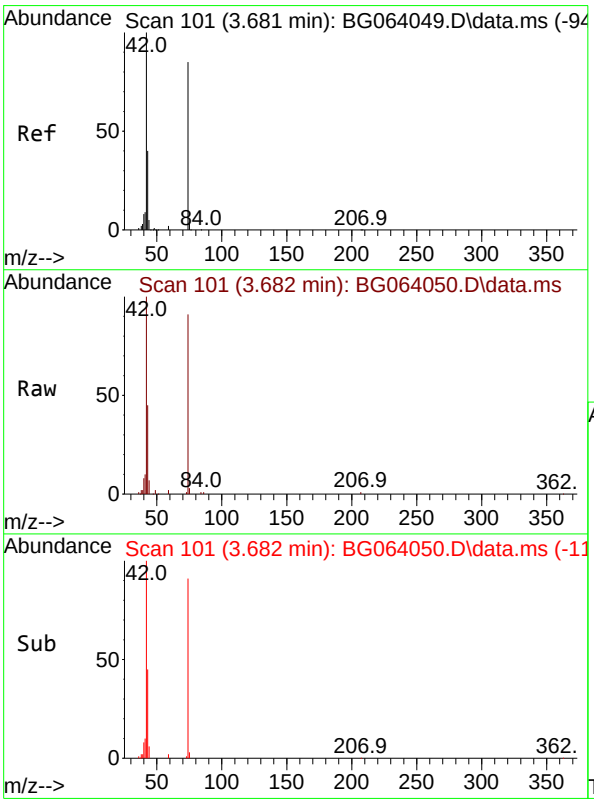
Ion	Ratio	Lower	Upper
79	100		
52	105.4	83.0	124.6
51	58.8	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

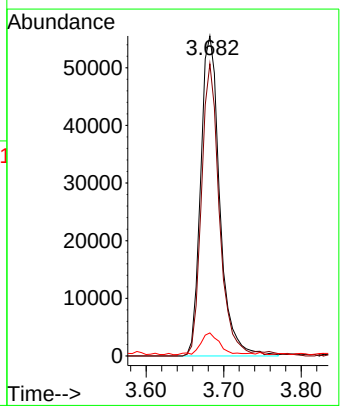
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

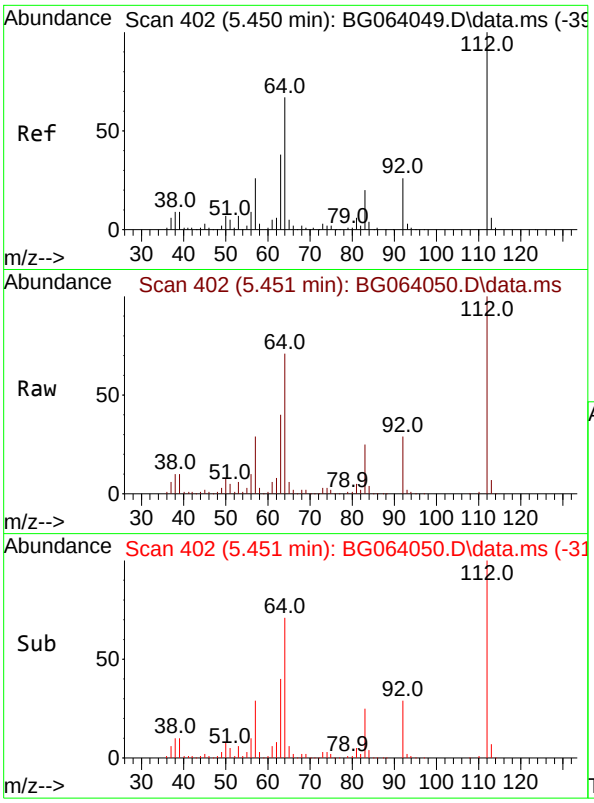


#4
n-Nitrosodimethylamine
Concen: 49.369 ng
RT: 3.682 min Scan# 101
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 42 Resp: 94714

Ion	Ratio	Lower	Upper
42	100		
74	91.3	68.0	102.0
44	7.2	4.9	7.3

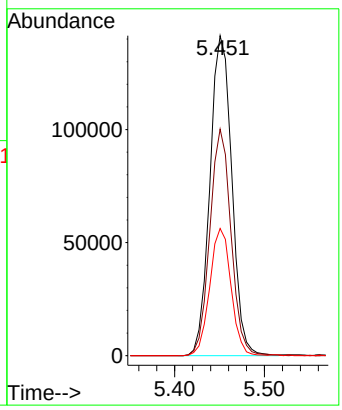




#5
2-Fluorophenol
Concen: 98.271 ng
RT: 5.451 min Scan# 4
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:112 Resp: 23940

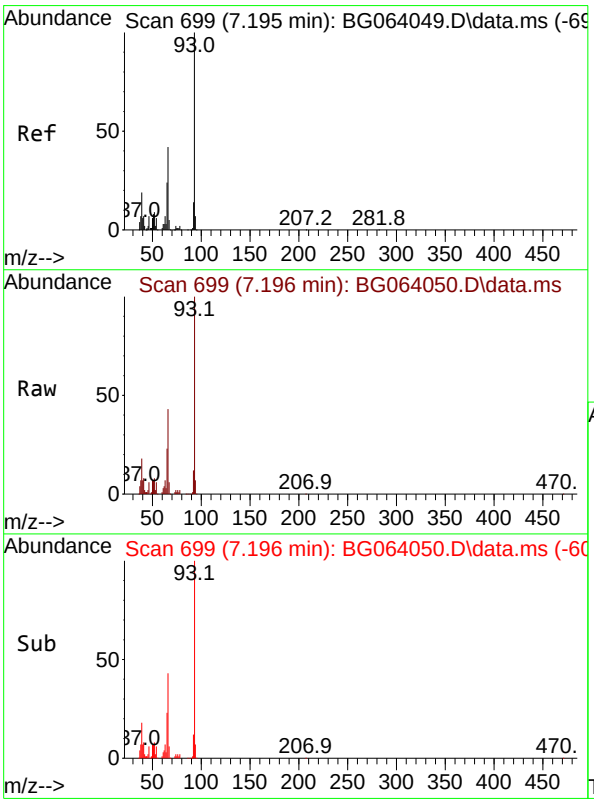
Ion	Ratio	Lower	Upper
112	100		
64	70.8	53.7	80.5
63	39.8	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

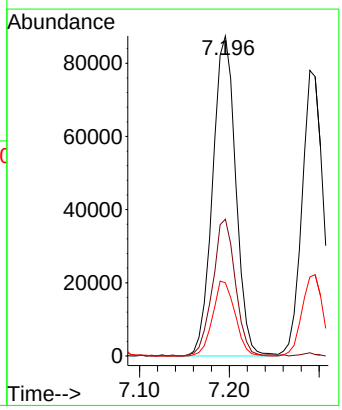
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

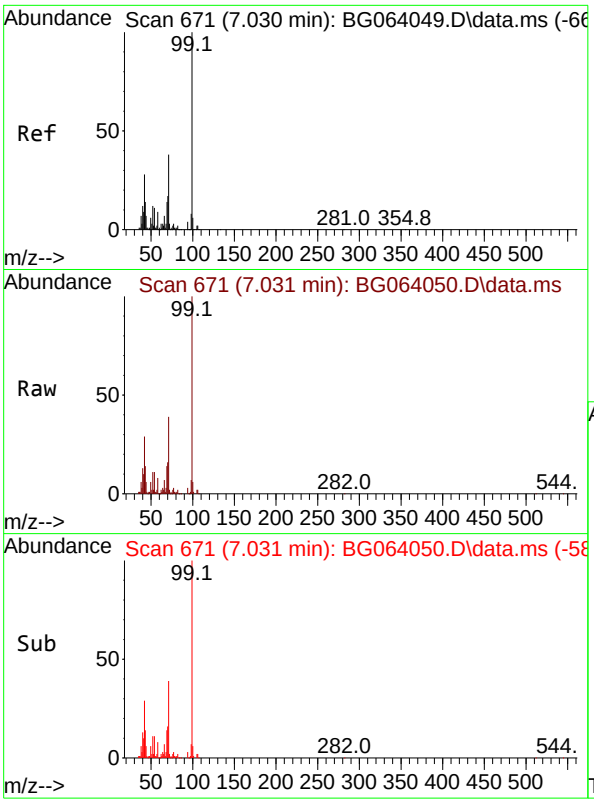


#6
Aniline
Concen: 48.003 ng
RT: 7.196 min Scan# 699
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 93 Resp: 156110

Ion	Ratio	Lower	Upper
93	100		
66	42.7	33.7	50.5
65	22.9	19.1	28.7

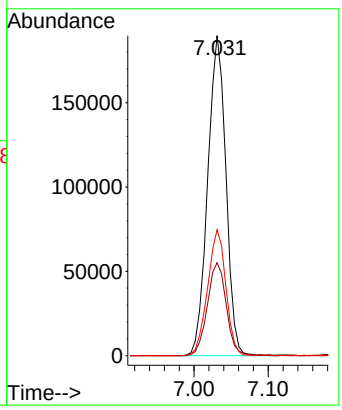




#7
Phenol-d6
Concen: 97.714 ng
RT: 7.031 min Scan# 6
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 99 Resp: 32384

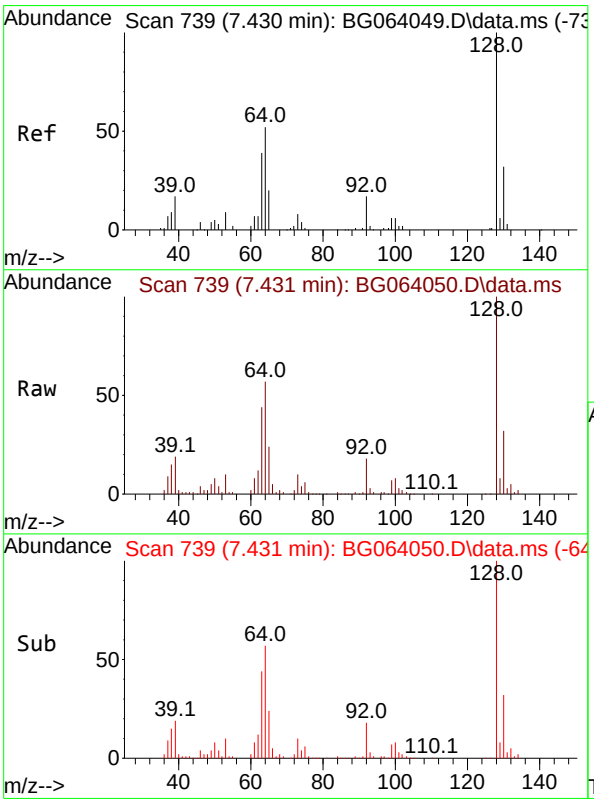
Ion	Ratio	Lower	Upper
99	100		
42	29.1	22.7	34.1
71	39.4	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

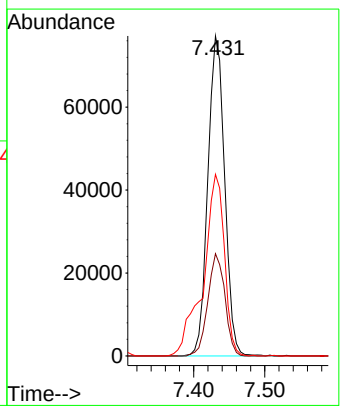
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

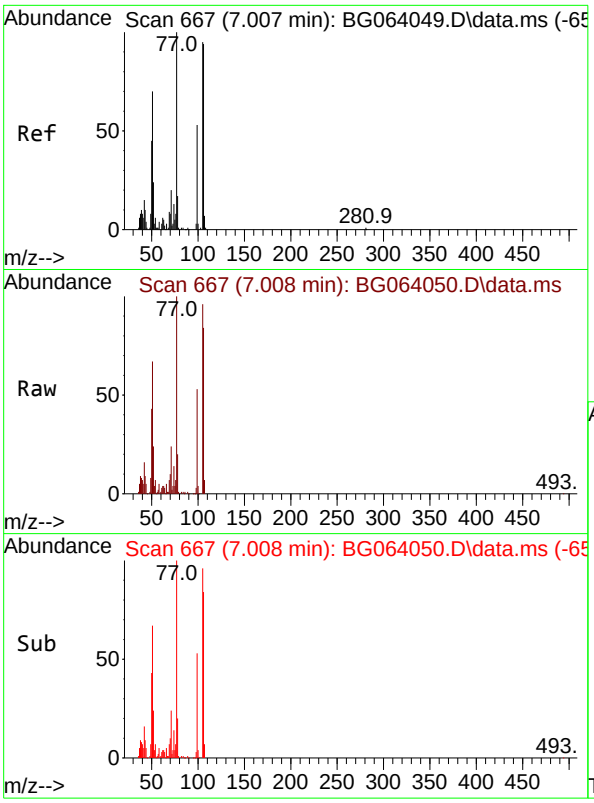


#8
2-Chlorophenol
Concen: 48.467 ng
RT: 7.431 min Scan# 739
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:128 Resp: 126814

Ion	Ratio	Lower	Upper
128	100		
130	31.9	12.3	52.3
64	56.7	37.0	77.0

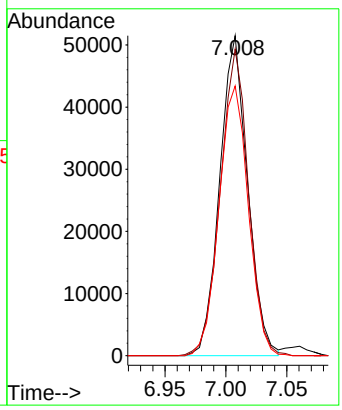




#9
Benzaldehyde
Concen: 42.223 ng
RT: 7.008 min Scan# 6
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 77 Resp: 8179

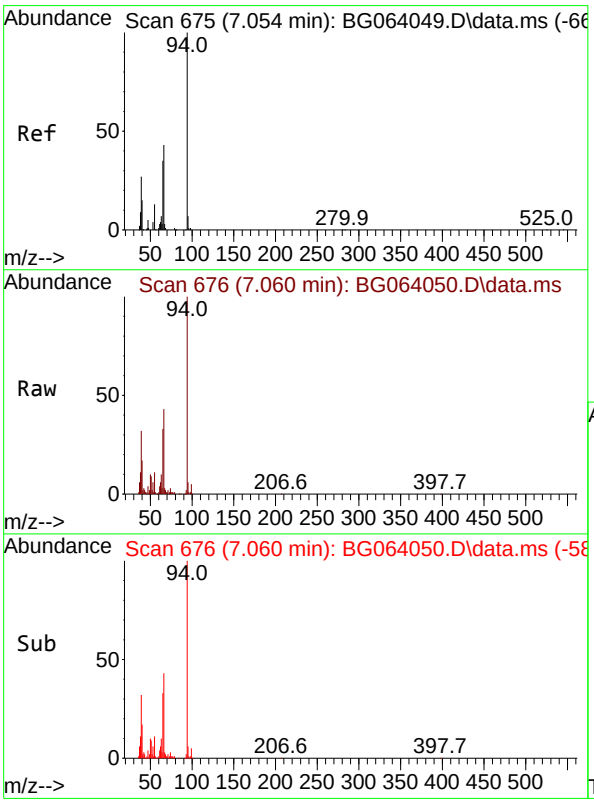
Ion	Ratio	Lower	Upper
77	100		
105	95.8	75.5	115.5
106	84.3	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

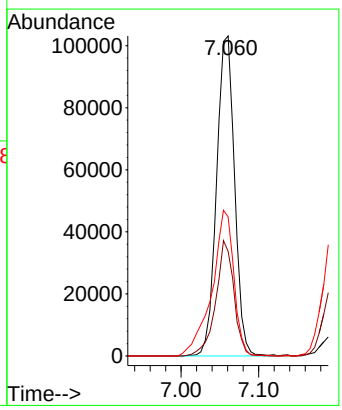
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

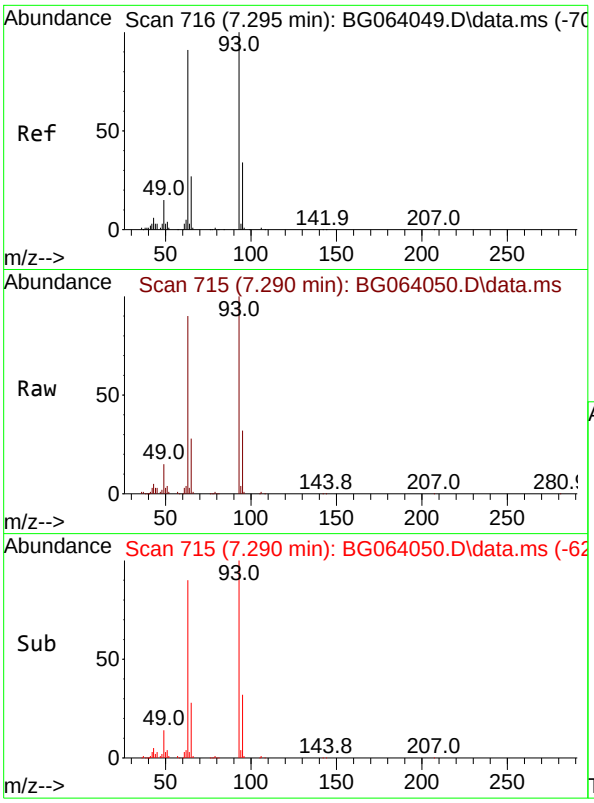


#10
Phenol
Concen: 49.107 ng
RT: 7.060 min Scan# 676
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 94 Resp: 166630

Ion	Ratio	Lower	Upper
94	100		
65	32.7	15.2	55.2
66	43.4	25.1	65.1

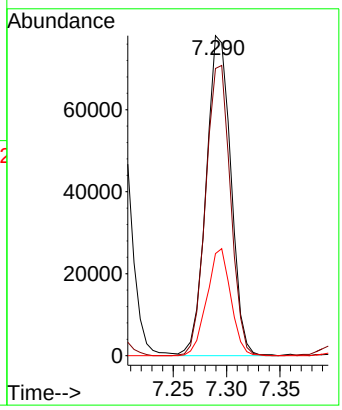




#11
bis(2-Chloroethyl)ether
Concen: 47.264 ng
RT: 7.290 min Scan# 7
Delta R.T. -0.005 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 93 Resp: 12573

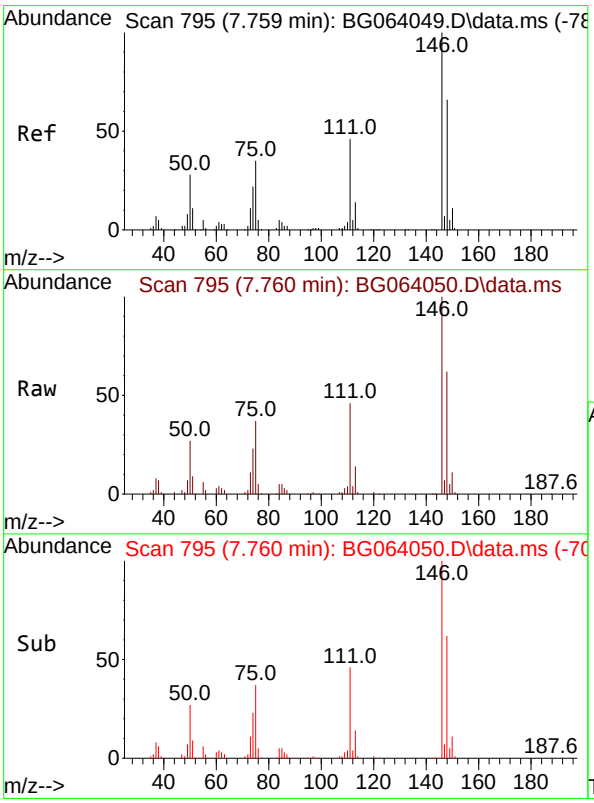
Ion	Ratio	Lower	Upper
93	100		
63	89.8	70.0	110.0
95	31.9	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

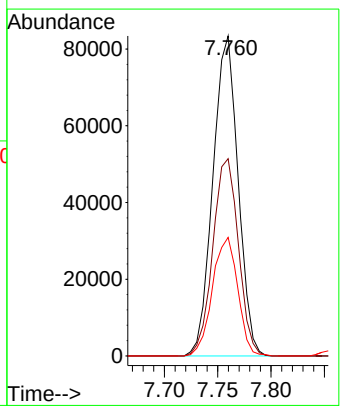
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

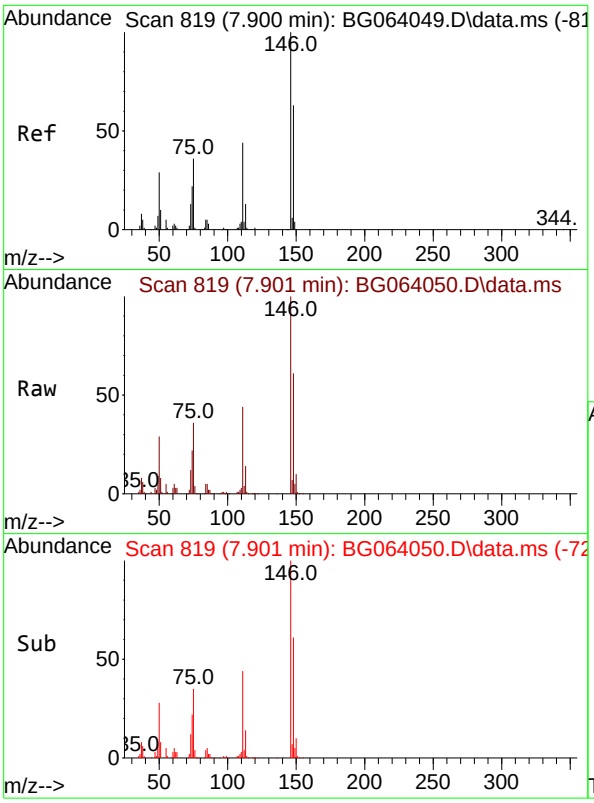


#12
1,3-Dichlorobenzene
Concen: 47.598 ng
RT: 7.760 min Scan# 795
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:146 Resp: 136763

Ion	Ratio	Lower	Upper
146	100		
148	61.6	52.6	78.8
75	37.1	28.1	42.1

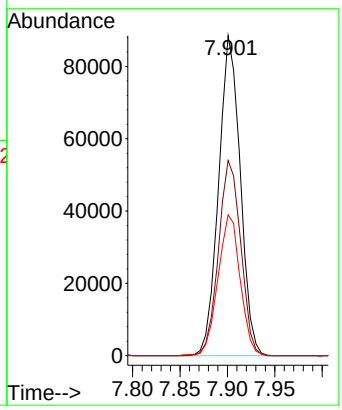




#13
1,4-Dichlorobenzene
Concen: 47.733 ng
RT: 7.901 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:146 Resp: 14057

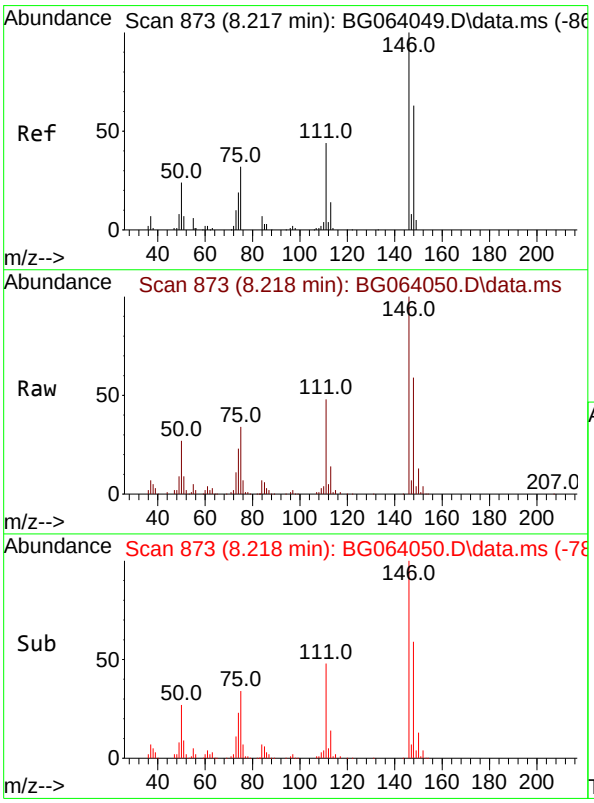
Ion	Ratio	Lower	Upper
146	100		
148	61.0	50.6	75.8
111	44.1	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

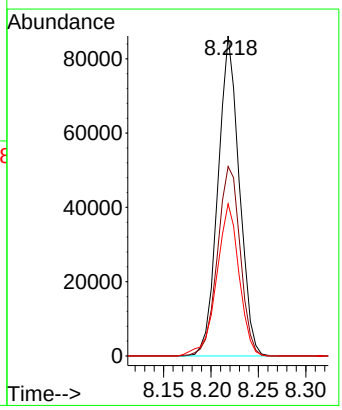
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

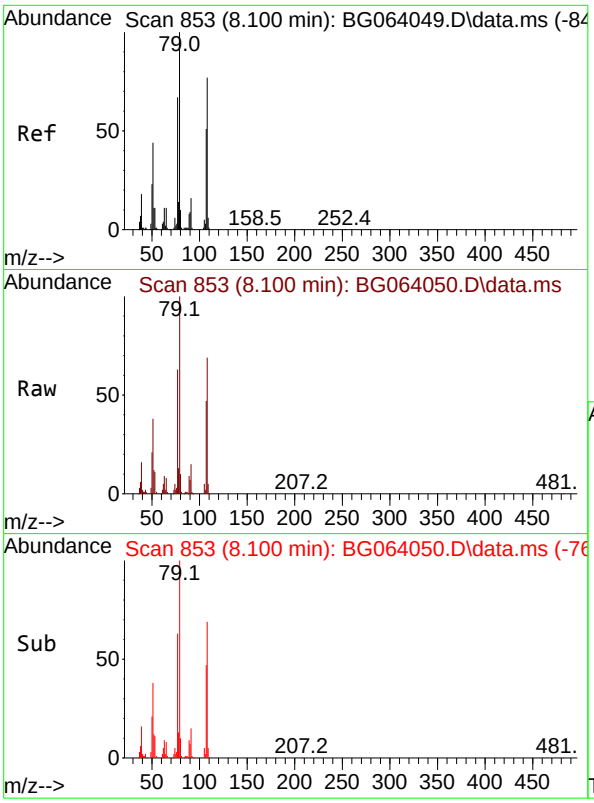


#14
1,2-Dichlorobenzene
Concen: 47.407 ng
RT: 8.218 min Scan# 873
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:146 Resp: 134631

Ion	Ratio	Lower	Upper
146	100		
148	59.2	50.2	75.2
111	47.5	36.4	54.6

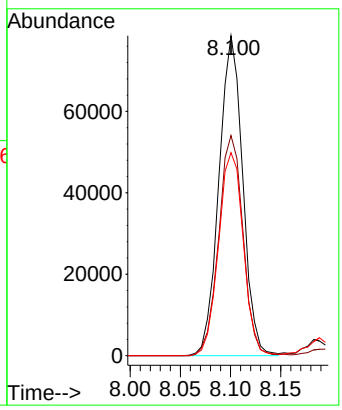




#15
Benzyl Alcohol
Concen: 50.441 ng
RT: 8.100 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 79 Resp: 12918

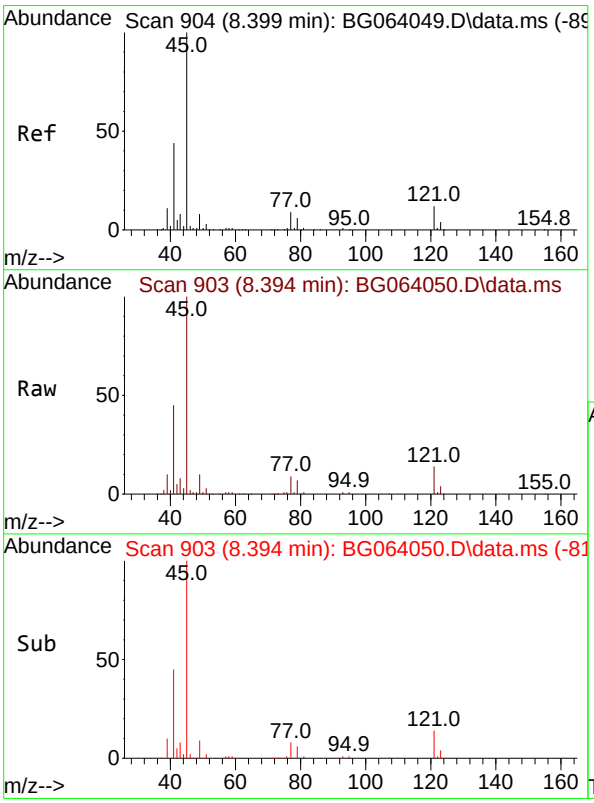
Ion	Ratio	Lower	Upper
79	100		
108	68.8	61.7	92.5
77	63.5	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

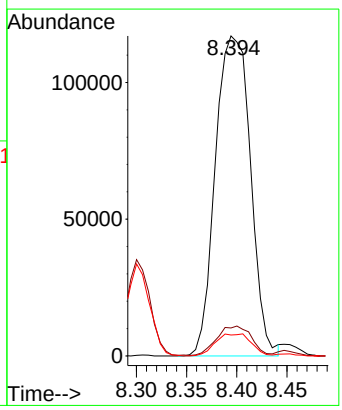
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

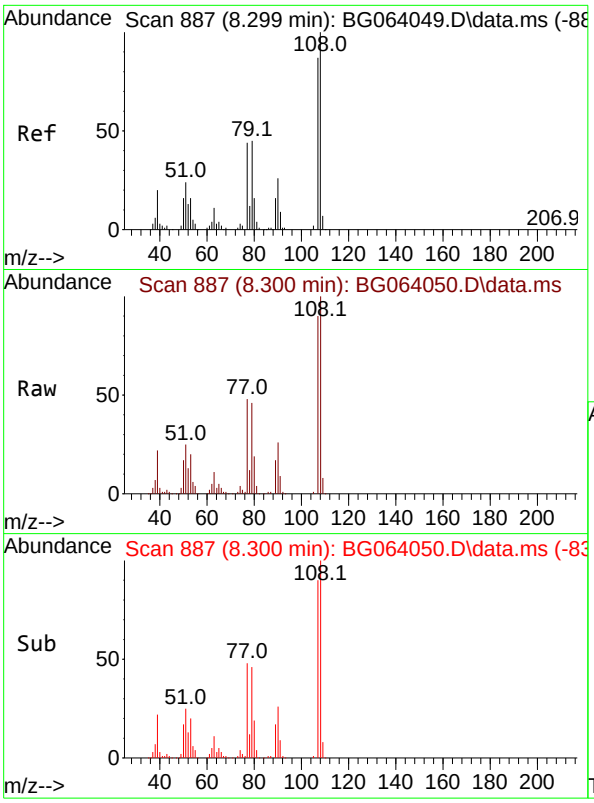


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.637 ng
RT: 8.394 min Scan# 903
Delta R.T. -0.005 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 45 Resp: 284947

Ion	Ratio	Lower	Upper
45	100		
77	8.8	0.0	29.0
79	6.5	0.0	26.6

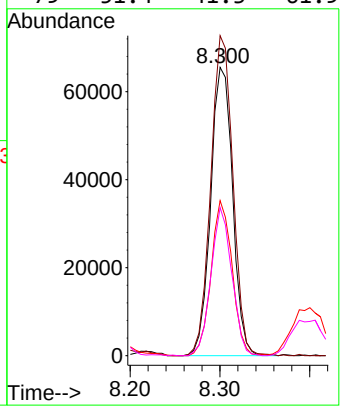




#17
2-Methylphenol
Concen: 49.469 ng
RT: 8.300 min Scan# 8
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:107 Resp: 11140

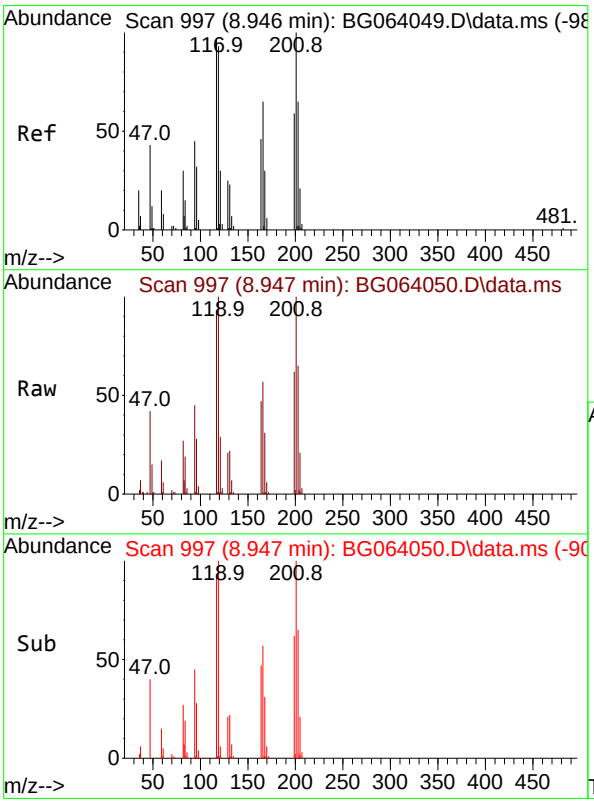
Ion	Ratio	Lower	Upper
107	100		
108	111.0	92.5	138.7
77	53.8	40.5	60.7
79	51.4	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

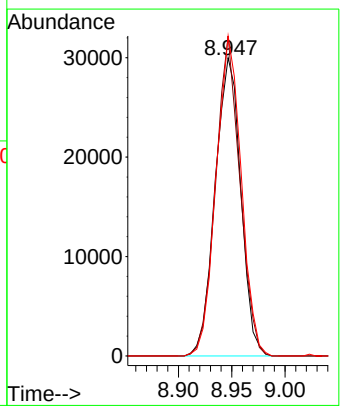
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

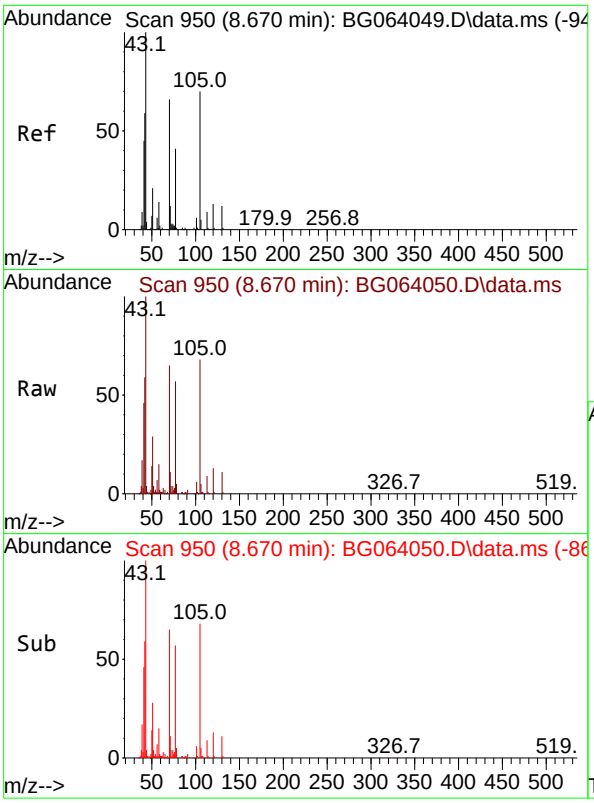


#18
Hexachloroethane
Concen: 48.558 ng
RT: 8.947 min Scan# 997
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:117 Resp: 50035

Ion	Ratio	Lower	Upper
117	100		
119	108.3	76.2	114.2
201	107.3	81.5	122.3

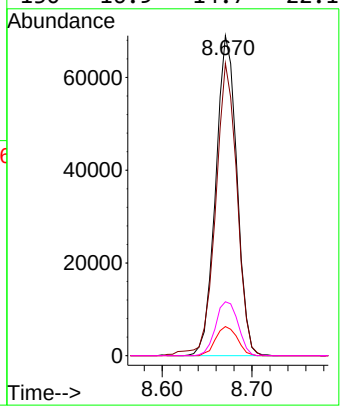




#19
n-Nitroso-di-n-propylamine
Concen: 48.631 ng
RT: 8.670 min Scan# 9
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 70 Resp: 11311

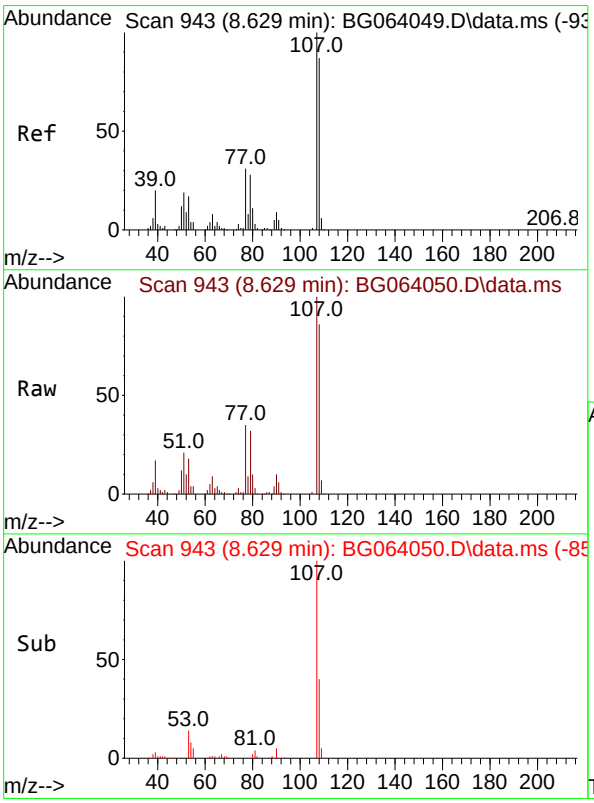
Ion	Ratio	Lower	Upper
70	100		
42	91.4	72.1	108.1
101	9.1	7.2	10.8
130	16.9	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

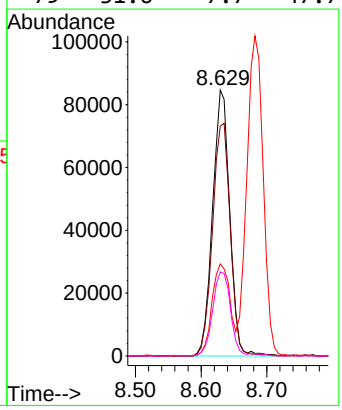
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

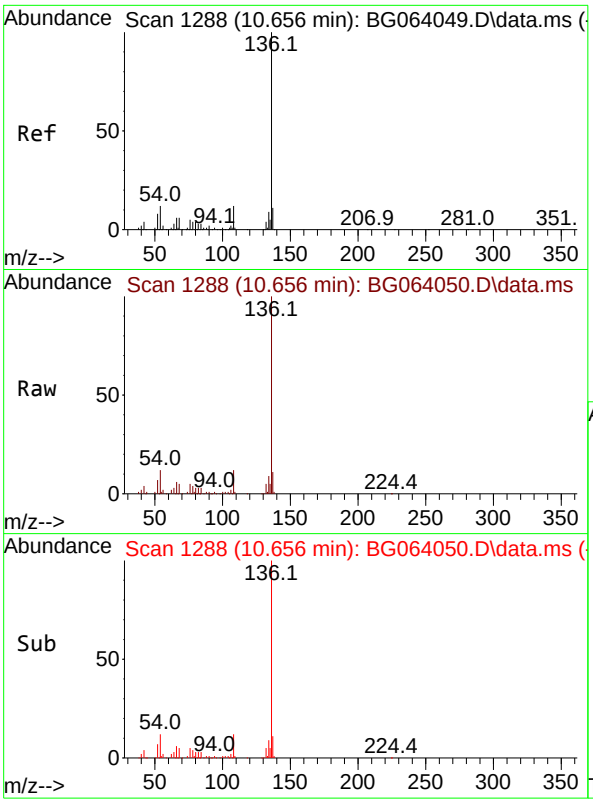


#20
3+4-Methylphenols
Concen: 49.461 ng
RT: 8.629 min Scan# 943
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:107 Resp: 153346

Ion	Ratio	Lower	Upper
107	100		
108	86.4	67.0	107.0
77	34.6	11.2	51.2
79	31.6	7.7	47.7

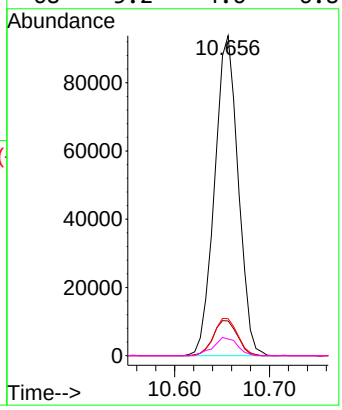




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.656 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:136 Resp: 16232

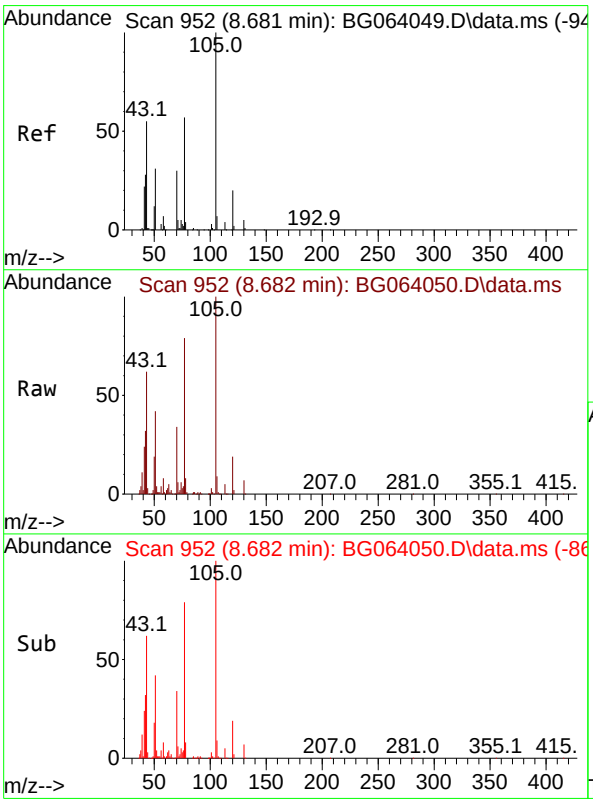
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	12.3	9.9	14.9
68	5.2	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

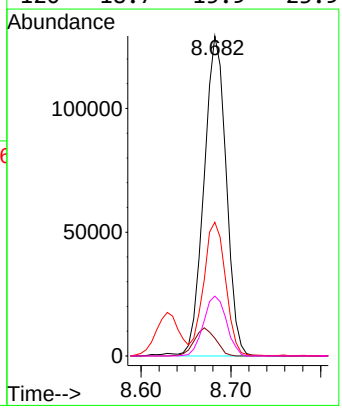
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

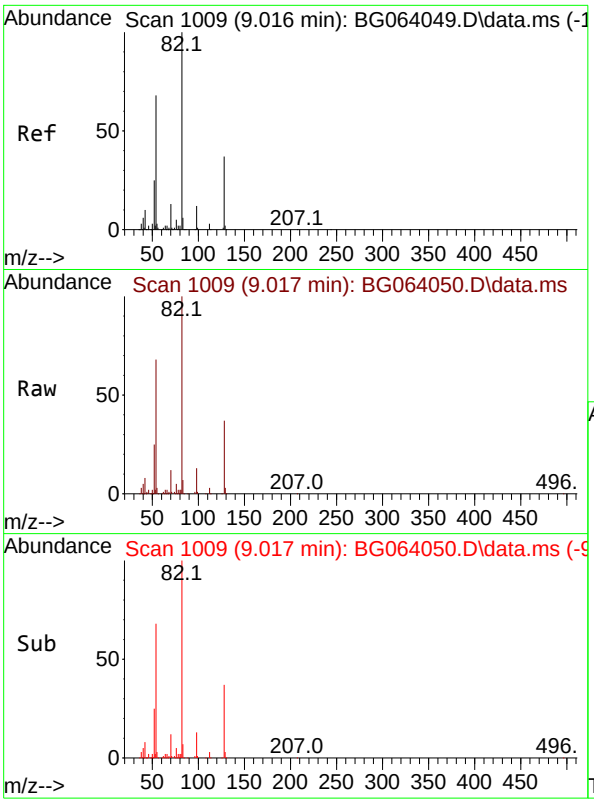


#22
Acetophenone
Concen: 49.752 ng
RT: 8.682 min Scan# 952
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:105 Resp: 221424

Ion	Ratio	Lower	Upper
105	100		
71	5.5	4.2	6.4
51	41.8	33.3	49.9
120	18.7	15.9	23.9

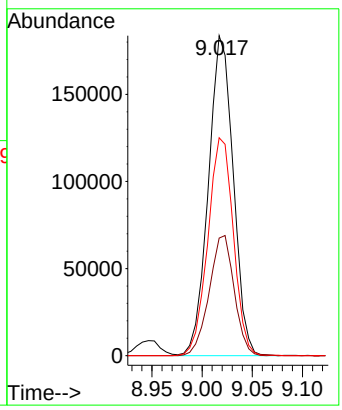




#23
Nitrobenzene-d5
Concen: 107.720 ng
RT: 9.017 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 82 Resp: 31640

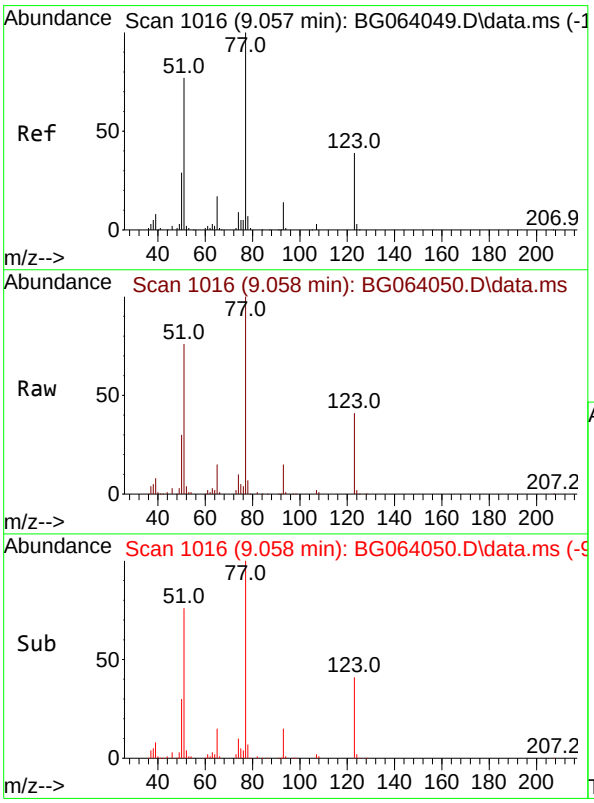
Ion	Ratio	Lower	Upper
82	100		
128	36.7	30.0	45.0
54	68.1	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

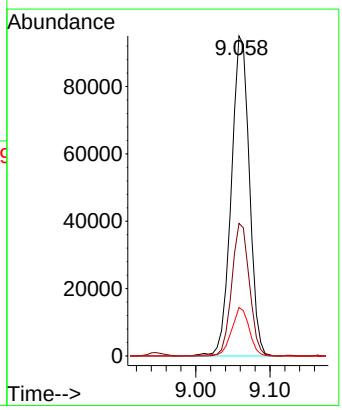
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

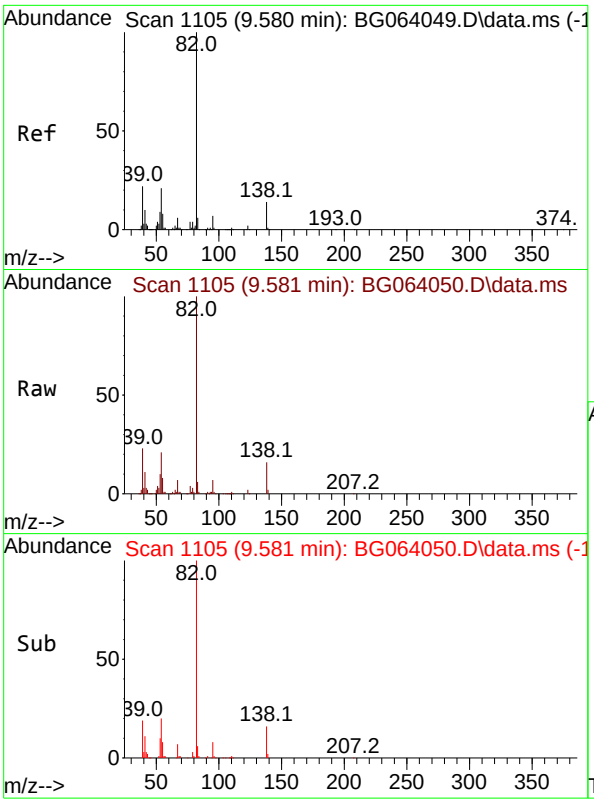


#24
Nitrobenzene
Concen: 52.890 ng
RT: 9.058 min Scan# 1016
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 77 Resp: 160553

Ion	Ratio	Lower	Upper
77	100		
123	41.4	31.4	47.2
65	15.1	13.4	20.0

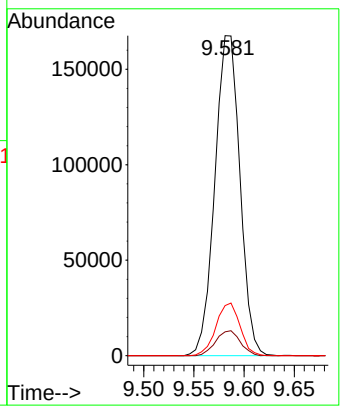




#25
Isophorone
Concen: 49.457 ng
RT: 9.581 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 82 Resp: 29076

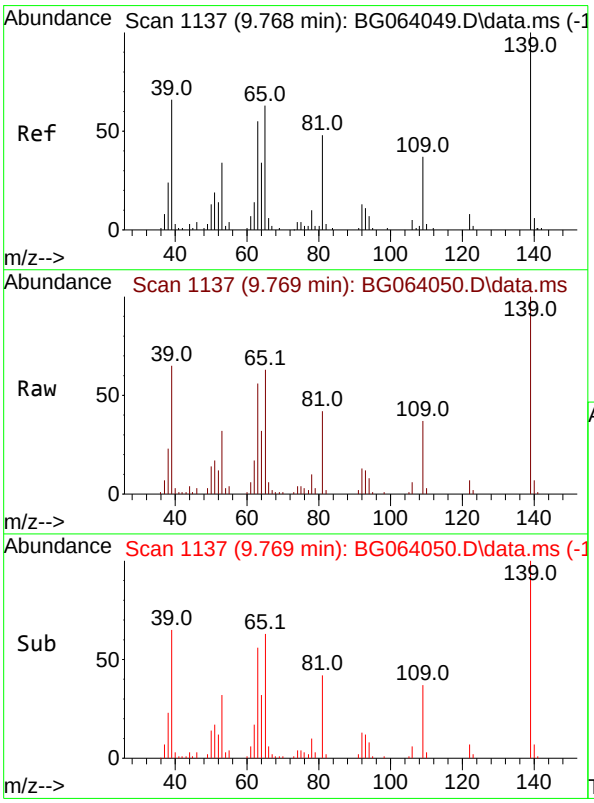
Ion	Ratio	Lower	Upper
82	100		
95	7.4	5.8	8.8
138	15.7	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

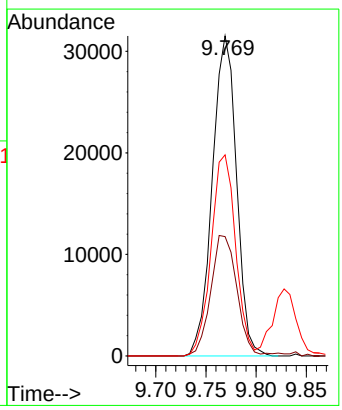
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

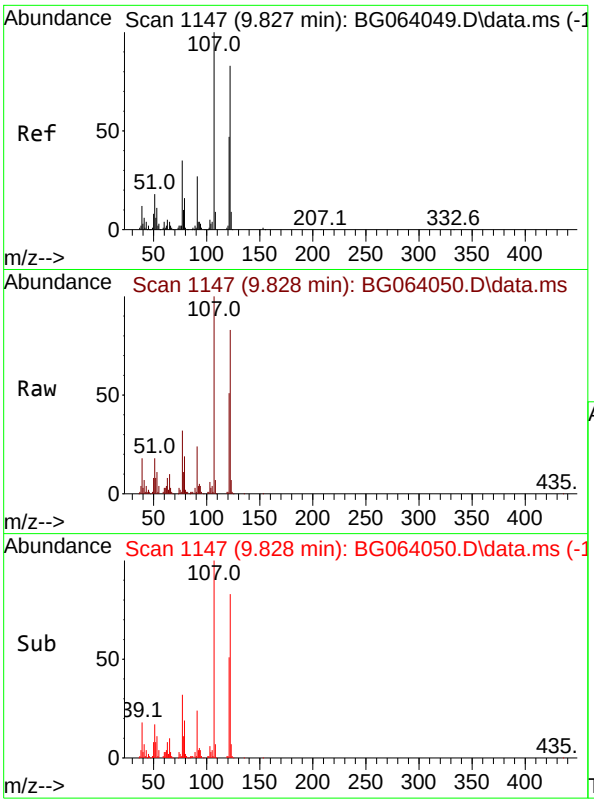


#26
2-Nitrophenol
Concen: 49.791 ng
RT: 9.769 min Scan# 1137
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:139 Resp: 52718

Ion	Ratio	Lower	Upper
139	100		
109	37.3	29.9	44.9
65	62.8	50.6	76.0

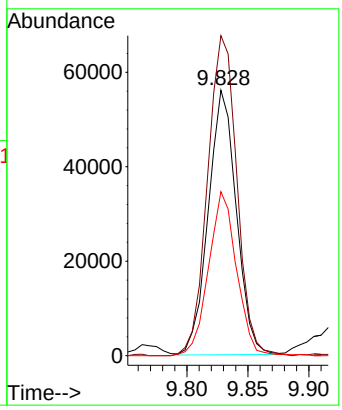




#27
2,4-Dimethylphenol
Concen: 50.976 ng
RT: 9.828 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:122 Resp: 8984

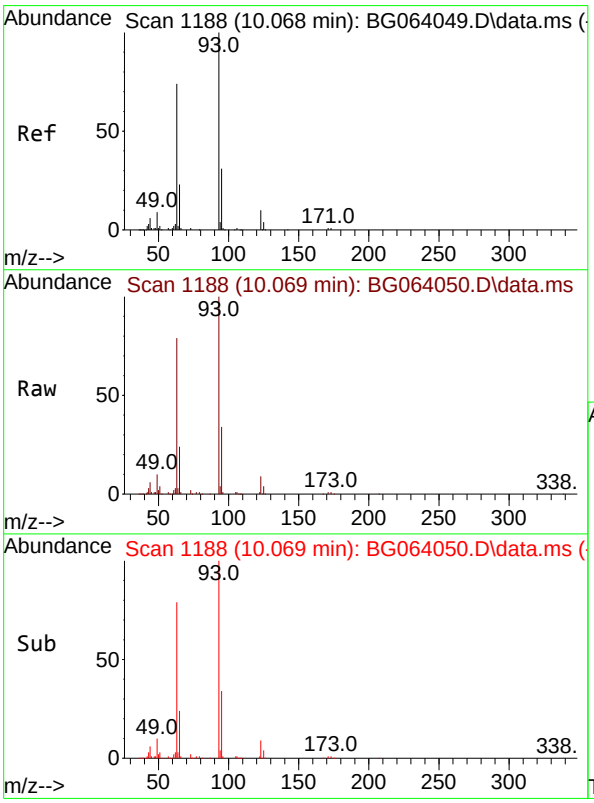
Ion	Ratio	Lower	Upper
122	100		
107	120.6	95.4	143.0
121	61.8	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

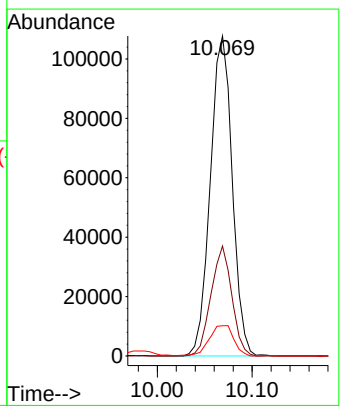
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

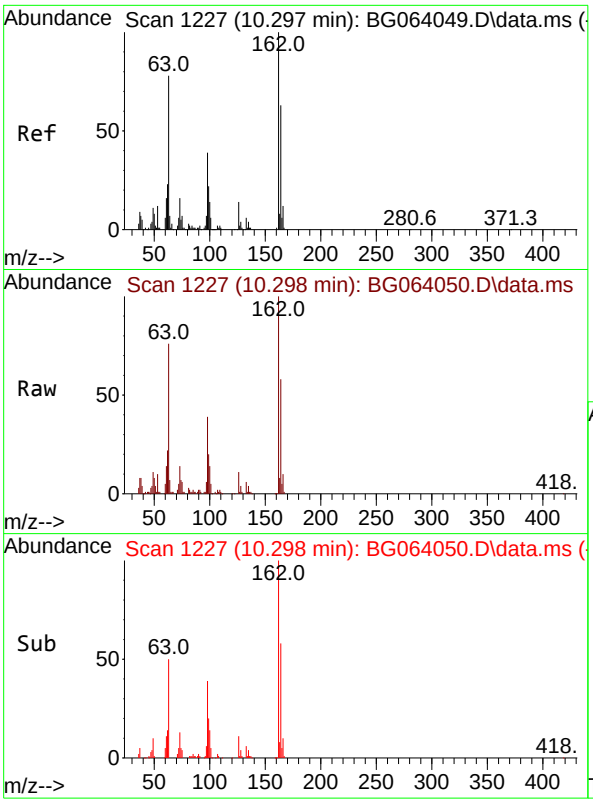


#28
bis(2-Chloroethoxy)methane
Concen: 48.604 ng
RT: 10.069 min Scan# 1188
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 93 Resp: 173244

Ion	Ratio	Lower	Upper
93	100		
95	34.4	25.0	37.4
123	9.5	7.6	11.4

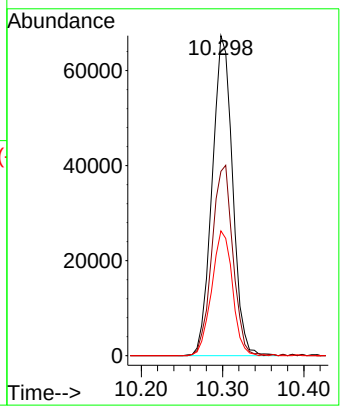




#29
2,4-Dichlorophenol
Concen: 52.861 ng
RT: 10.298 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:162 Resp: 11764

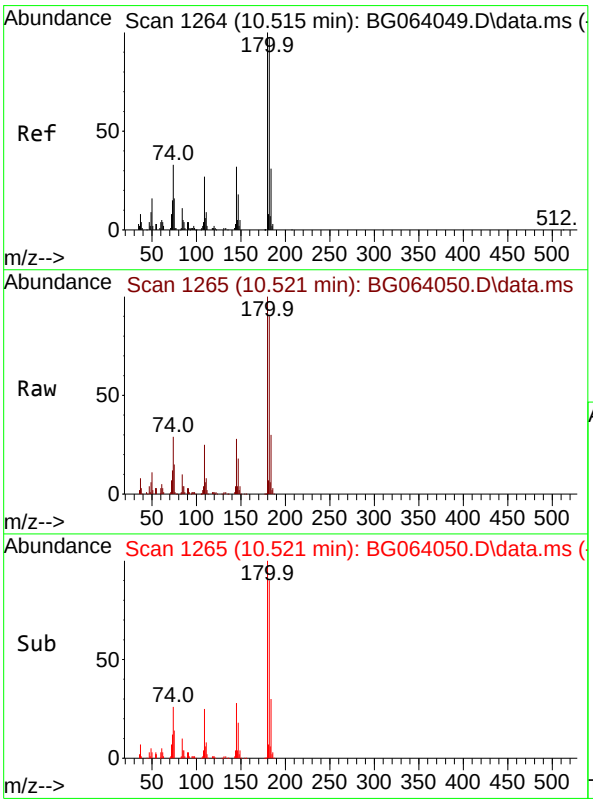
Ion	Ratio	Lower	Upper
162	100		
164	57.6	42.8	82.8
98	39.0	19.1	59.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

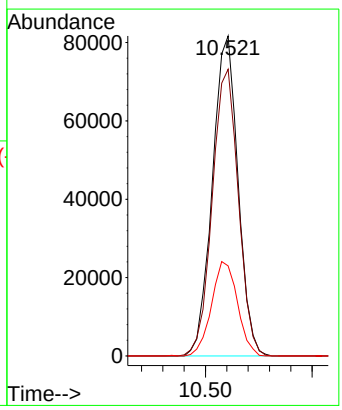
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

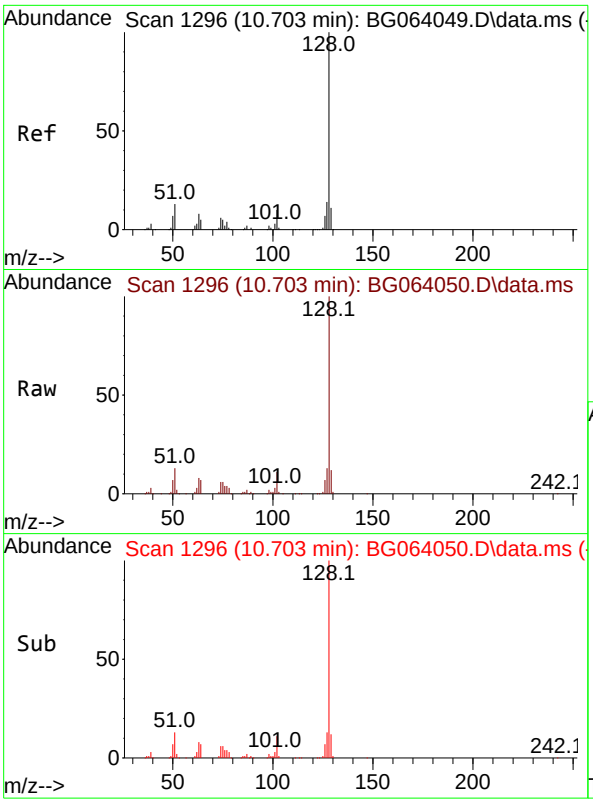


#30
1,2,4-Trichlorobenzene
Concen: 50.701 ng
RT: 10.521 min Scan# 1265
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:180 Resp: 136213

Ion	Ratio	Lower	Upper
180	100		
182	89.6	77.3	115.9
145	28.2	25.2	37.8

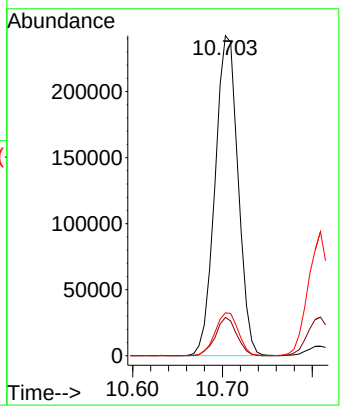




#31
Naphthalene
Concen: 49.204 ng
RT: 10.703 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:128 Resp: 43067

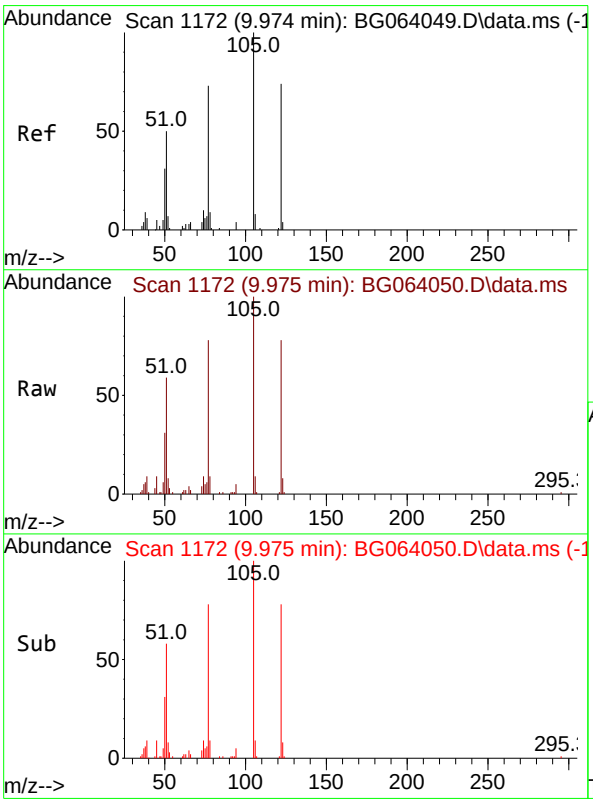
Ion	Ratio	Lower	Upper
128	100		
129	11.9	8.4	12.6
127	13.4	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

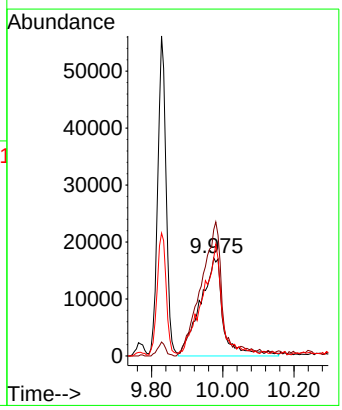
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

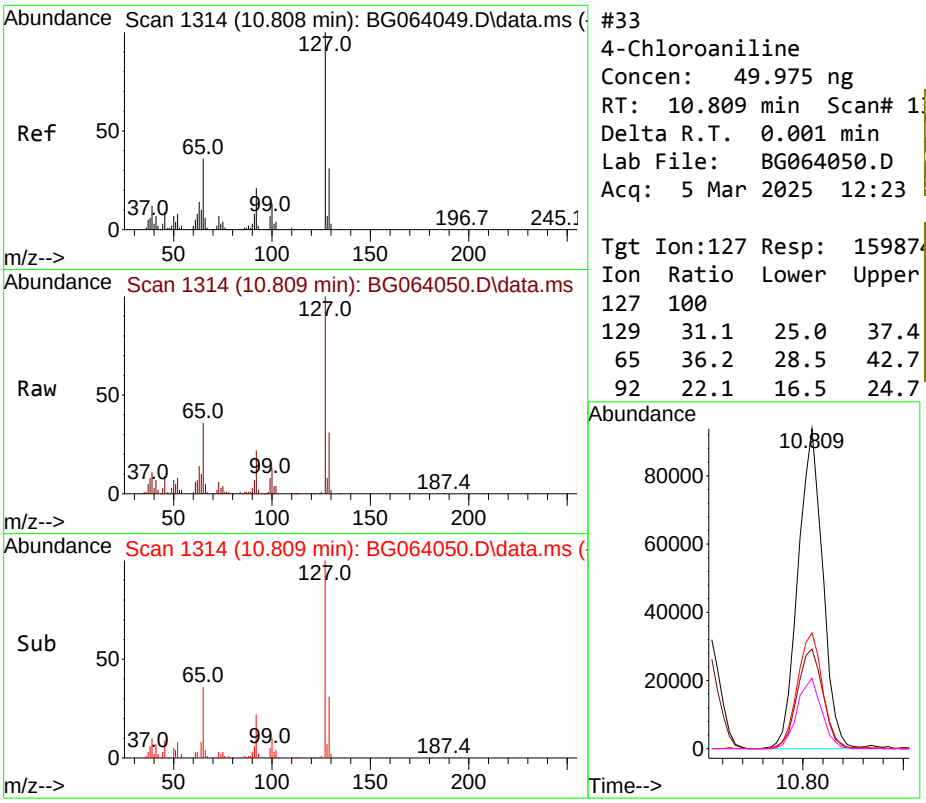


#32
Benzoic acid
Concen: 47.851 ng m
RT: 9.975 min Scan# 1172
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:122 Resp: 77326

Ion	Ratio	Lower	Upper
122	100		
105	128.9	115.0	155.0
77	100.0	80.9	120.9





#33
4-Chloroaniline
Concen: 49.975 ng
RT: 10.809 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

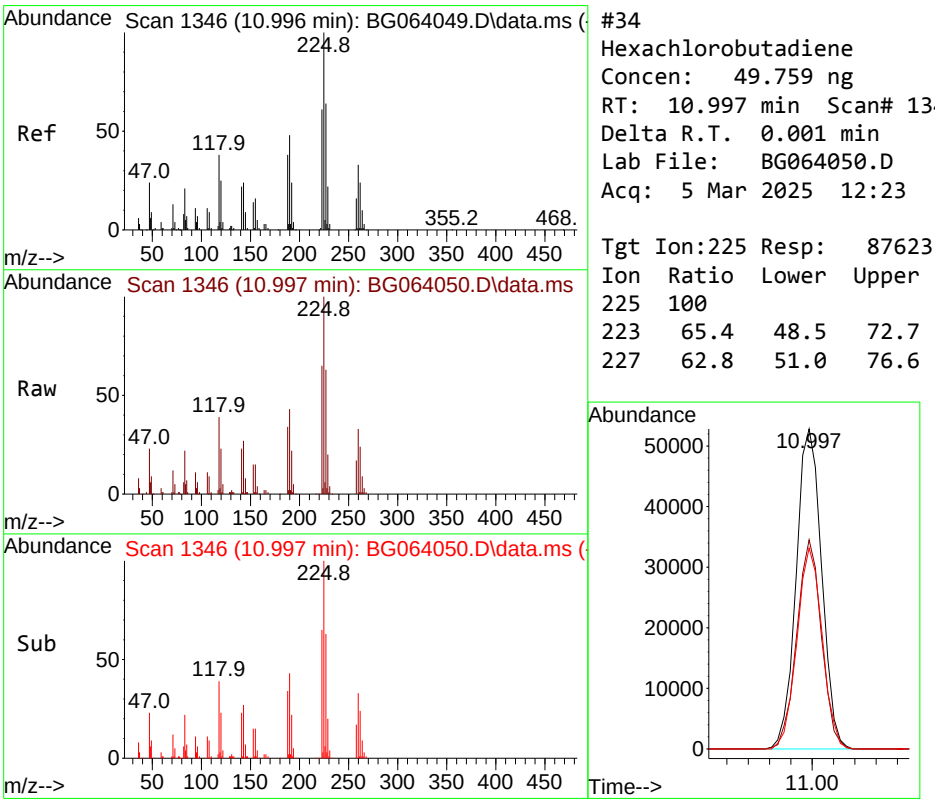
Tgt Ion:127 Resp: 15987

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.0	37.4
65	36.2	28.5	42.7
92	22.1	16.5	24.7

Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

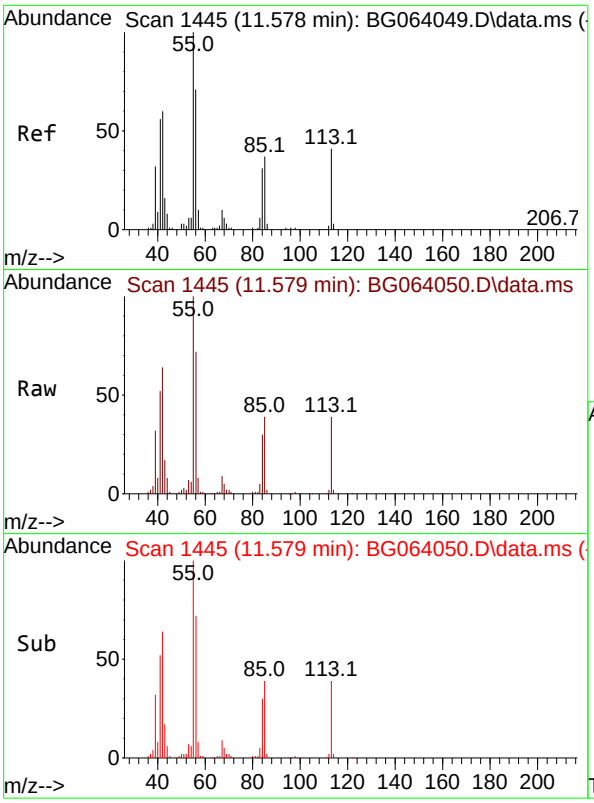
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#34
Hexachlorobutadiene
Concen: 49.759 ng
RT: 10.997 min Scan# 1346
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:225 Resp: 87623

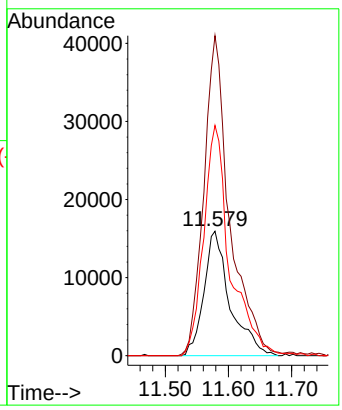
Ion	Ratio	Lower	Upper
225	100		
223	65.4	48.5	72.7
227	62.8	51.0	76.6



#35
Caprolactam
Concen: 53.678 ng
RT: 11.579 min Scan# 14
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:113 Resp: 4577

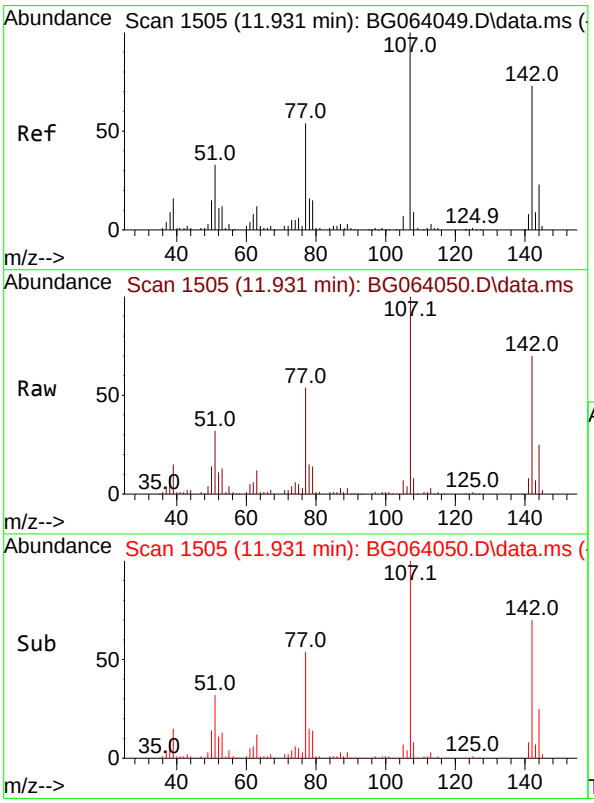
Ion	Ratio	Lower	Upper
113	100		
55	257.1	225.2	265.2
56	185.0	153.4	193.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

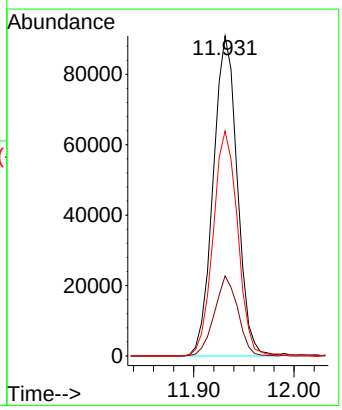
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

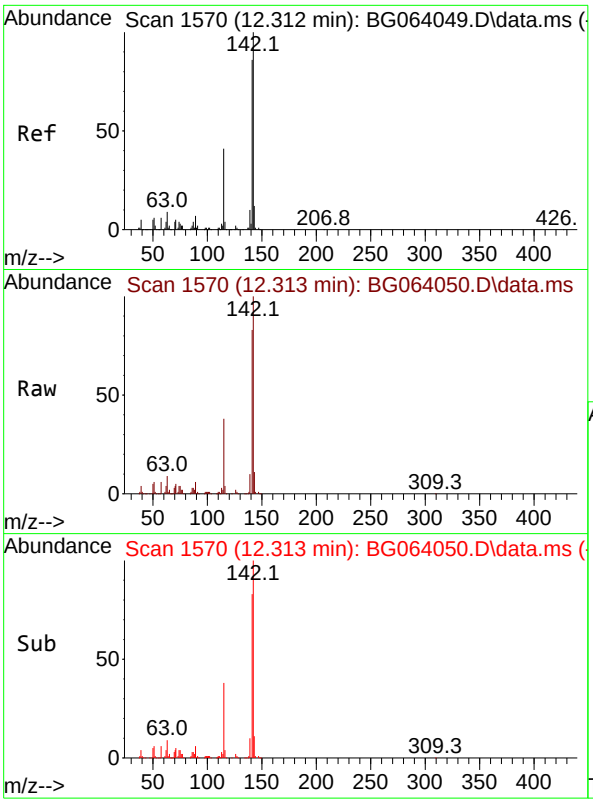


#36
4-Chloro-3-methylphenol
Concen: 51.905 ng
RT: 11.931 min Scan# 1505
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:107 Resp: 151419

Ion	Ratio	Lower	Upper
107	100		
144	25.0	18.6	28.0
142	70.3	58.0	87.0

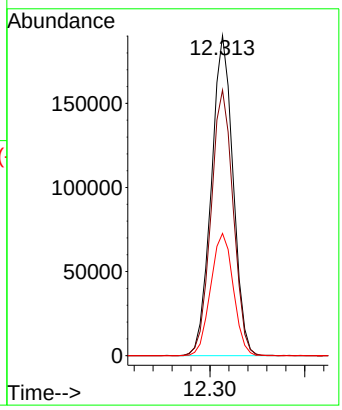




#37
2-Methylnaphthalene
Concen: 48.994 ng
RT: 12.313 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:142 Resp: 30274

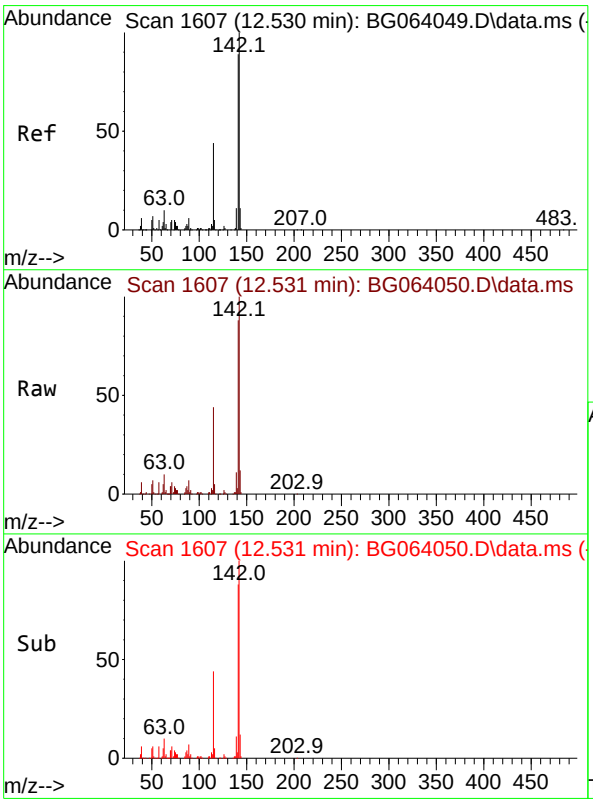
Ion	Ratio	Lower	Upper
142	100		
141	83.0	68.6	103.0
115	38.2	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

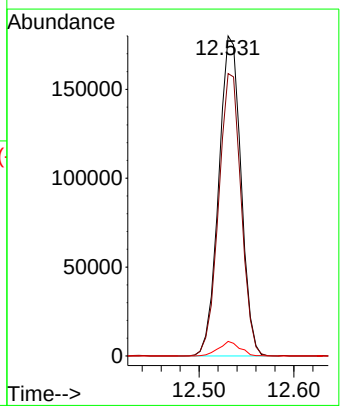
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

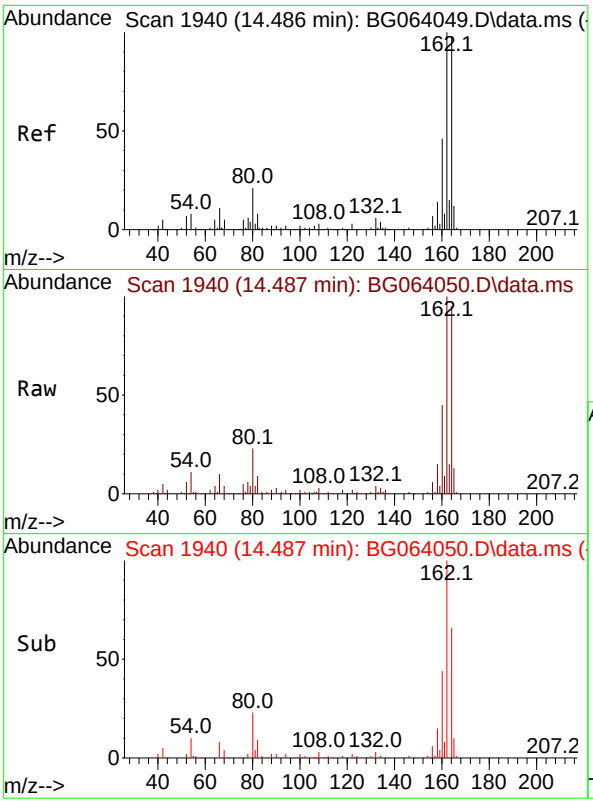


#38
1-Methylnaphthalene
Concen: 48.517 ng
RT: 12.531 min Scan# 1607
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:142 Resp: 293710

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.2	106.8
116	4.6	3.6	5.4

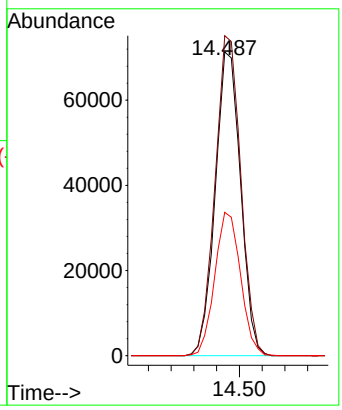




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.487 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:164 Resp: 11052

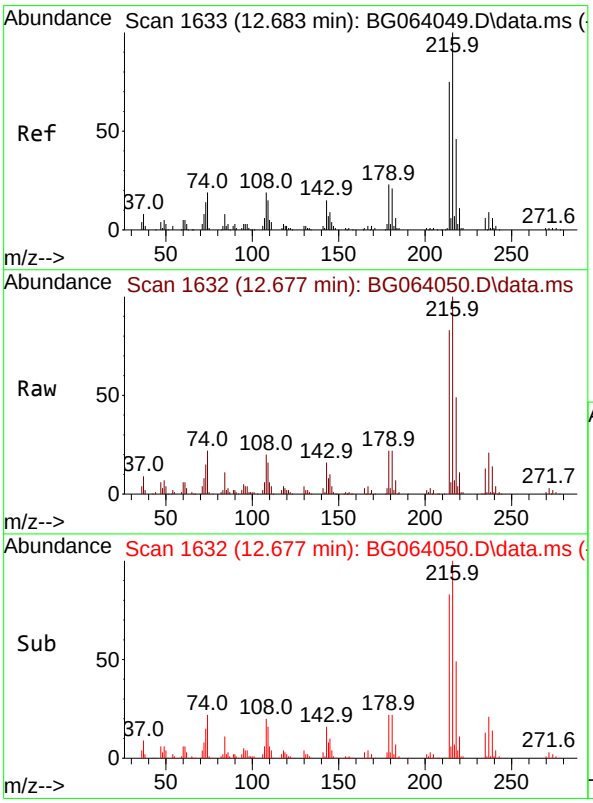
Ion	Ratio	Lower	Upper
164	100		
162	105.3	81.4	122.0
160	47.2	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

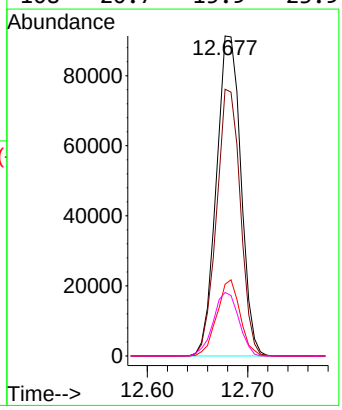
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

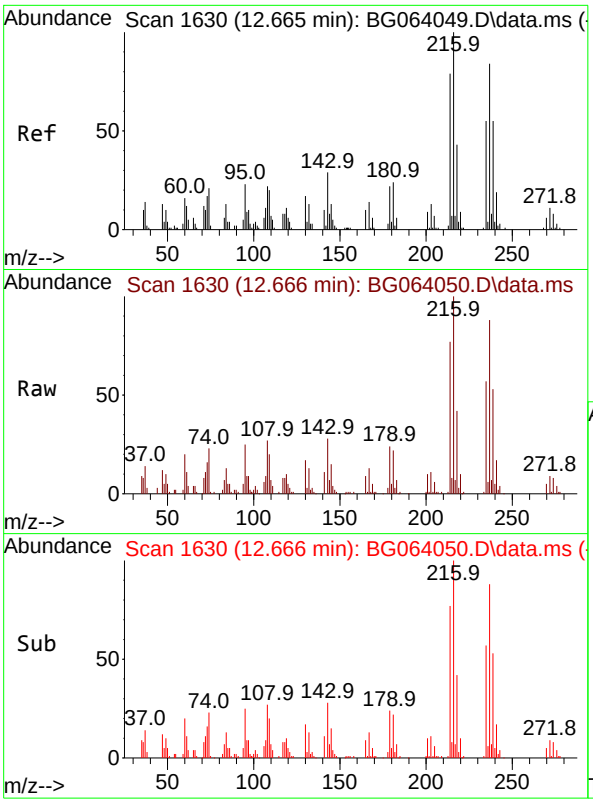


#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.068 ng
RT: 12.677 min Scan# 1632
Delta R.T. -0.005 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:216 Resp: 154824

Ion	Ratio	Lower	Upper
216	100		
214	80.9	61.7	92.5
179	22.4	17.9	26.9
108	20.7	15.9	23.9

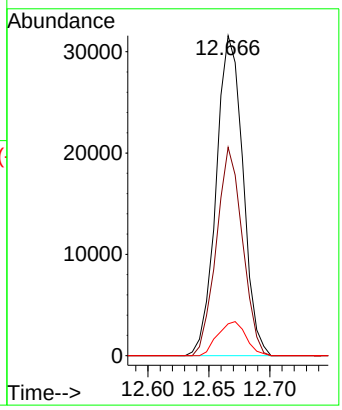




#41
Hexachlorocyclopentadiene
Concen: 54.295 ng
RT: 12.666 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:237 Resp: 4821

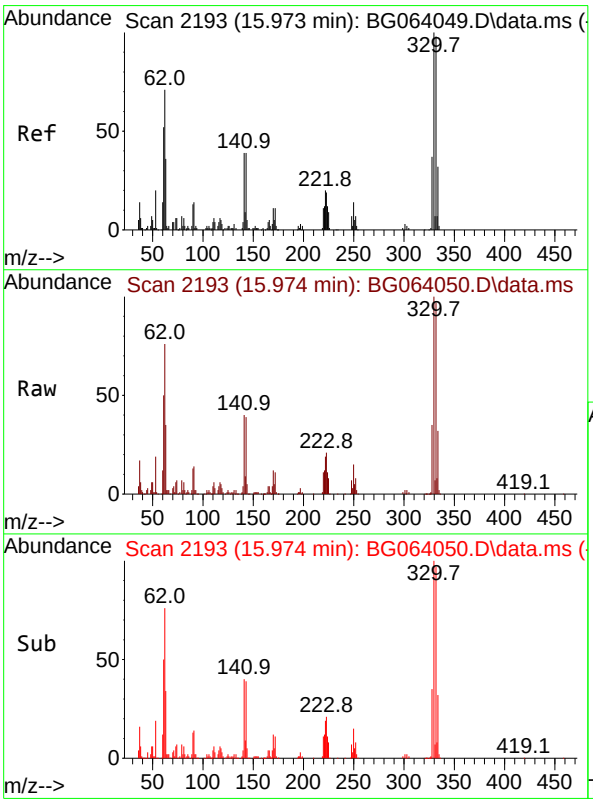
Ion	Ratio	Lower	Upper
237	100		
235	65.1	46.0	86.0
272	9.9	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

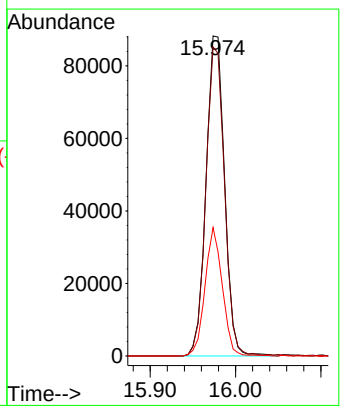
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

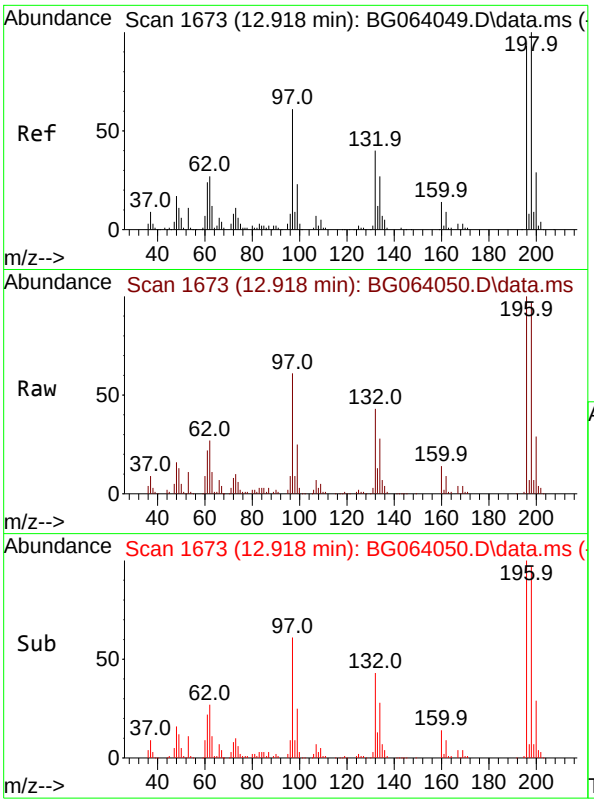


#42
2,4,6-Tribromophenol
Concen: 108.574 ng
RT: 15.974 min Scan# 2193
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:330 Resp: 133386

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.7	115.1
141	37.4	29.7	44.5

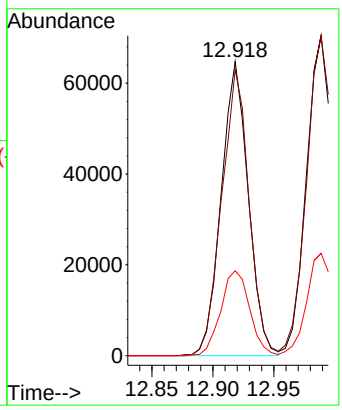




#43
2,4,6-Trichlorophenol
Concen: 53.786 ng
RT: 12.918 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:196 Resp: 10002

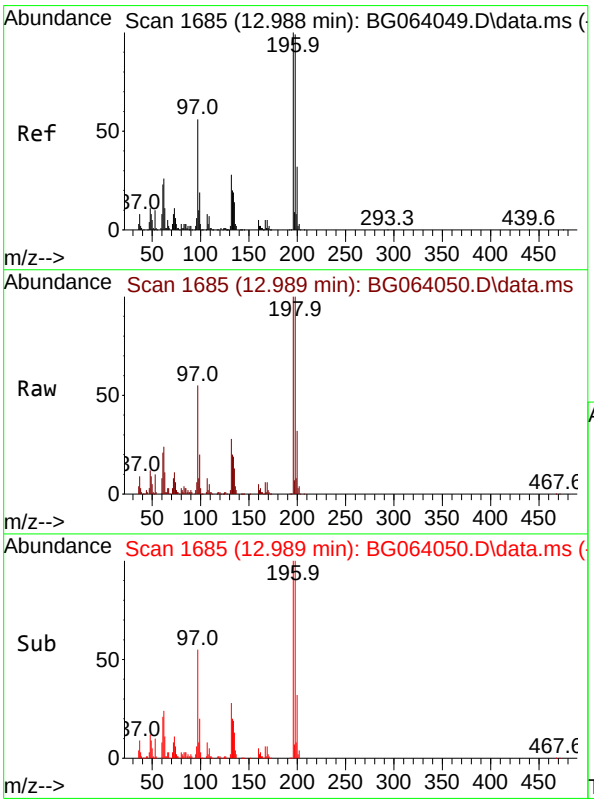
Ion	Ratio	Lower	Upper
196	100		
198	97.3	85.6	128.4
200	28.9	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

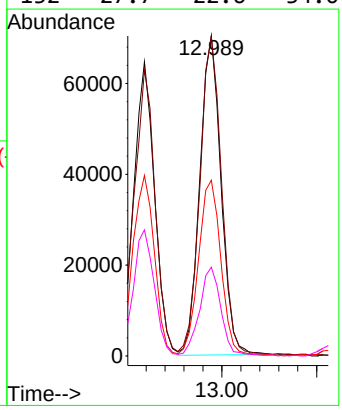
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

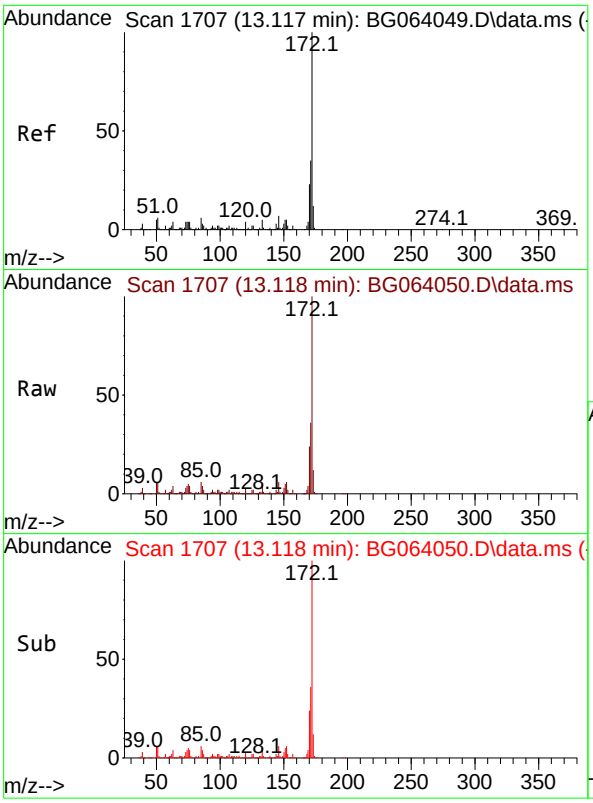


#44
2,4,5-Trichlorophenol
Concen: 52.900 ng
RT: 12.989 min Scan# 1685
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:196 Resp: 109309

Ion	Ratio	Lower	Upper
196	100		
198	99.9	79.5	119.3
97	54.9	45.2	67.8
132	27.7	22.6	34.0

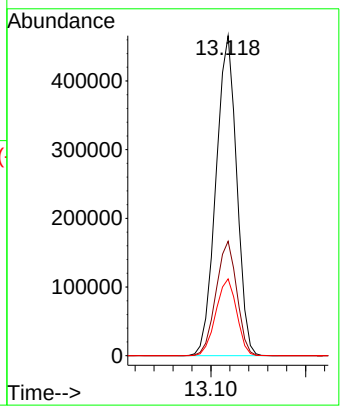




#45
2-Fluorobiphenyl
Concen: 97.354 ng
RT: 13.118 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:172 Resp: 70886

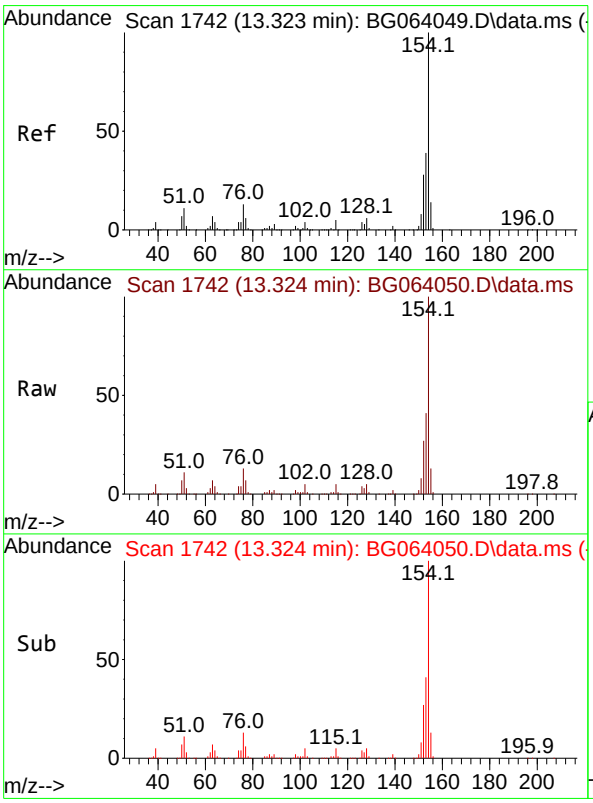
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.0	42.0
170	24.0	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

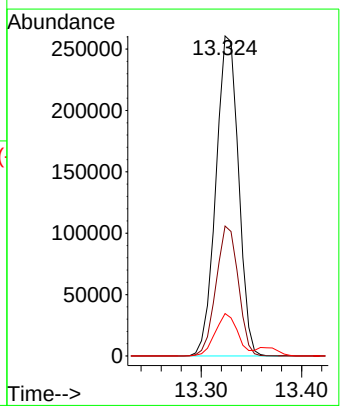
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

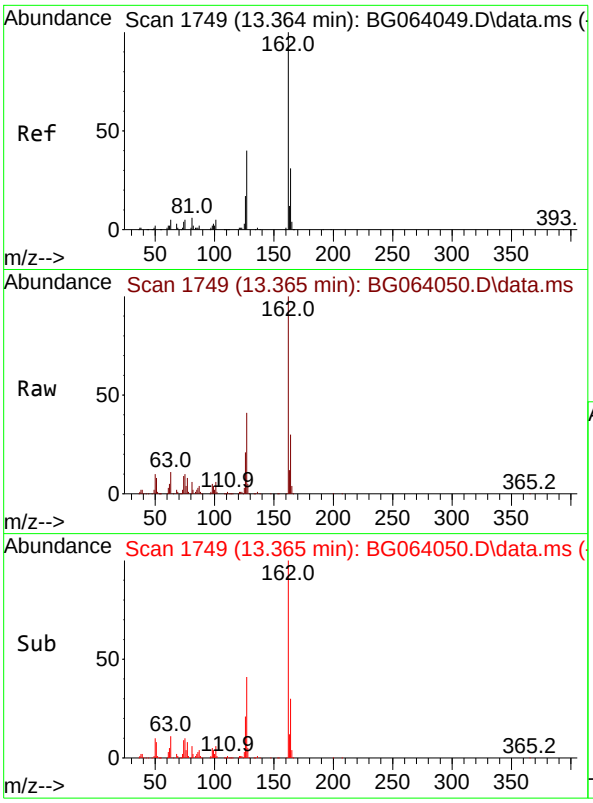


#46
1,1'-Biphenyl
Concen: 48.802 ng
RT: 13.324 min Scan# 1742
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:154 Resp: 407499

Ion	Ratio	Lower	Upper
154	100		
153	40.6	19.5	59.5
76	13.2	0.0	33.5

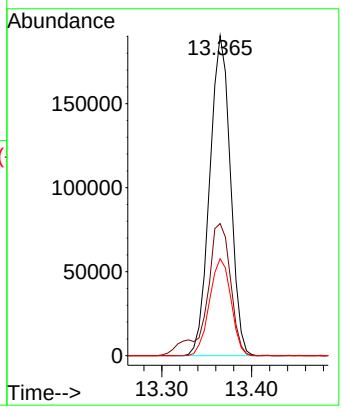




#47
2-Chloronaphthalene
Concen: 49.991 ng
RT: 13.365 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:162 Resp: 30444

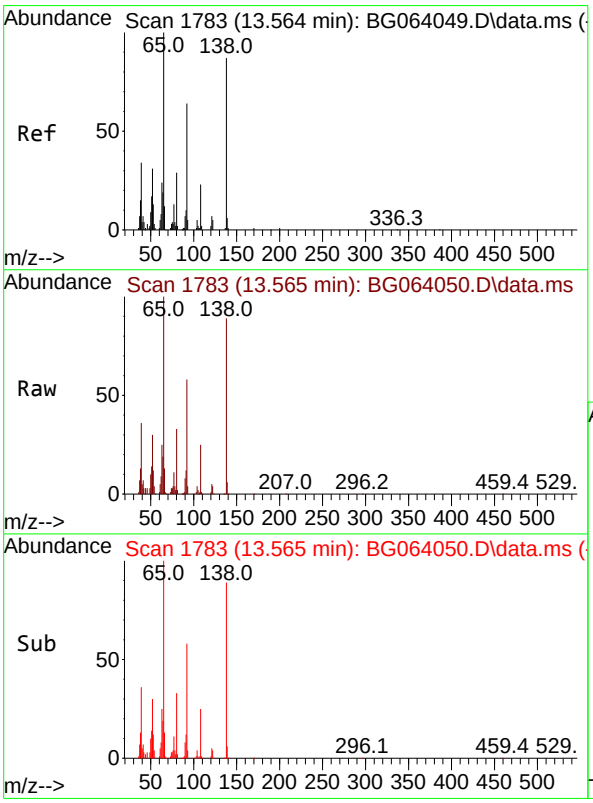
Ion	Ratio	Lower	Upper
162	100		
127	41.3	35.0	52.4
164	30.3	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

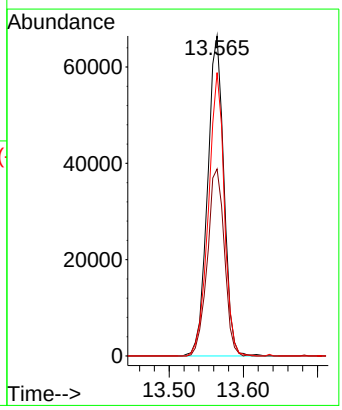
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

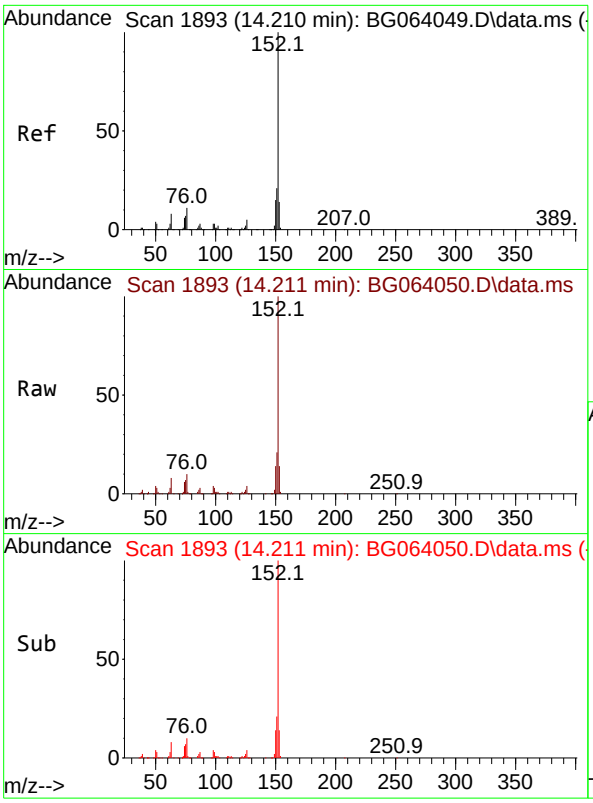


#48
2-Nitroaniline
Concen: 49.852 ng
RT: 13.565 min Scan# 1783
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 65 Resp: 101610

Ion	Ratio	Lower	Upper
65	100		
92	58.4	51.2	76.8
138	88.5	69.4	104.2

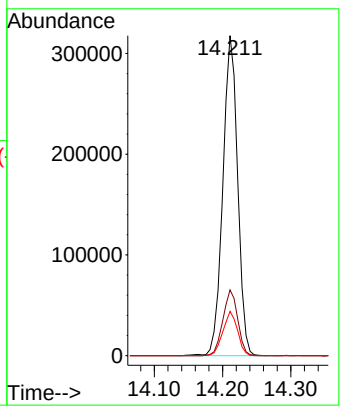




#49
Acenaphthylene
Concen: 49.779 ng
RT: 14.211 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:152 Resp: 47949

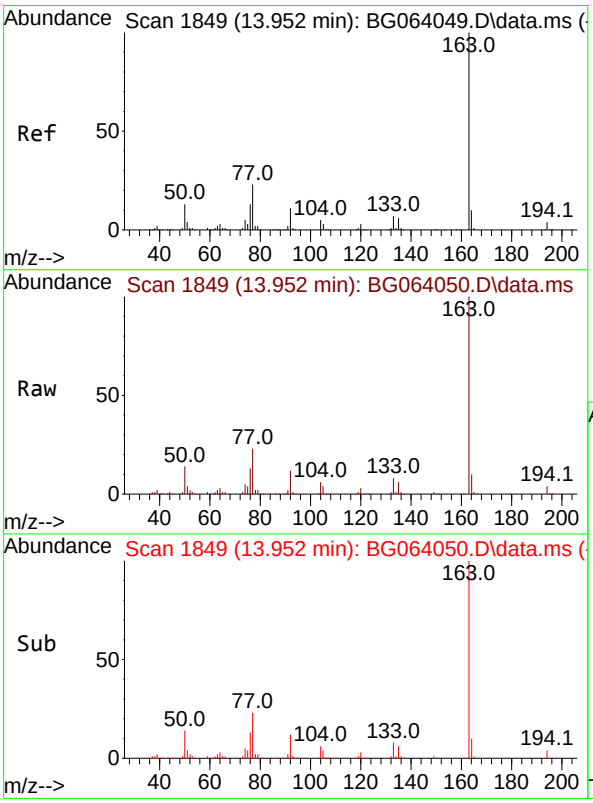
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.4	24.6
153	13.8	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

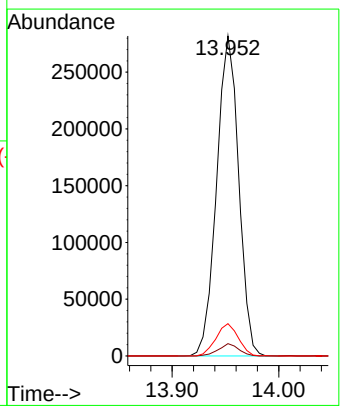
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

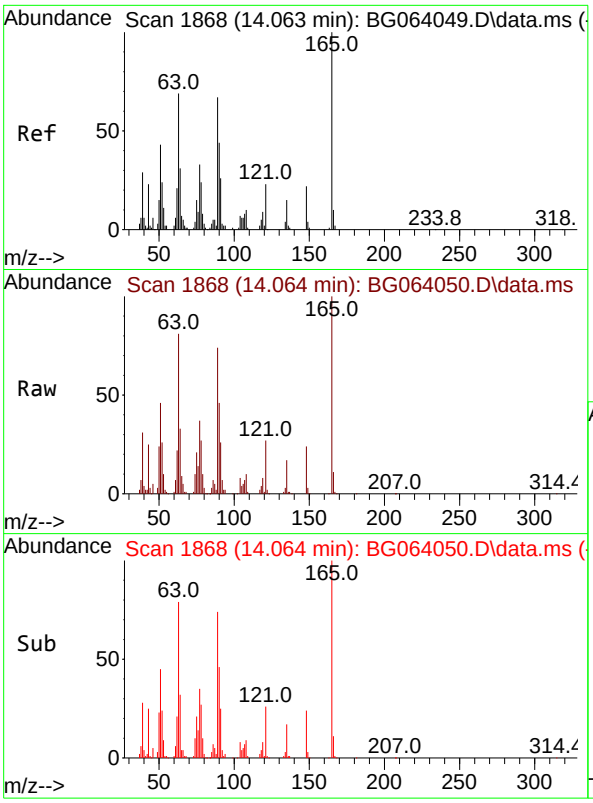


#50
Dimethylphthalate
Concen: 49.555 ng
RT: 13.952 min Scan# 1849
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:163 Resp: 404288

Ion	Ratio	Lower	Upper
163	100		
194	3.8	2.8	4.2
164	10.1	8.2	12.2

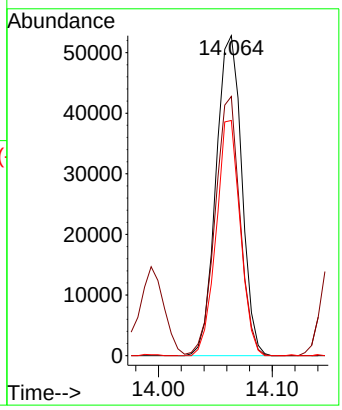




#51
2,6-Dinitrotoluene
Concen: 49.957 ng
RT: 14.064 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:165 Resp: 8292

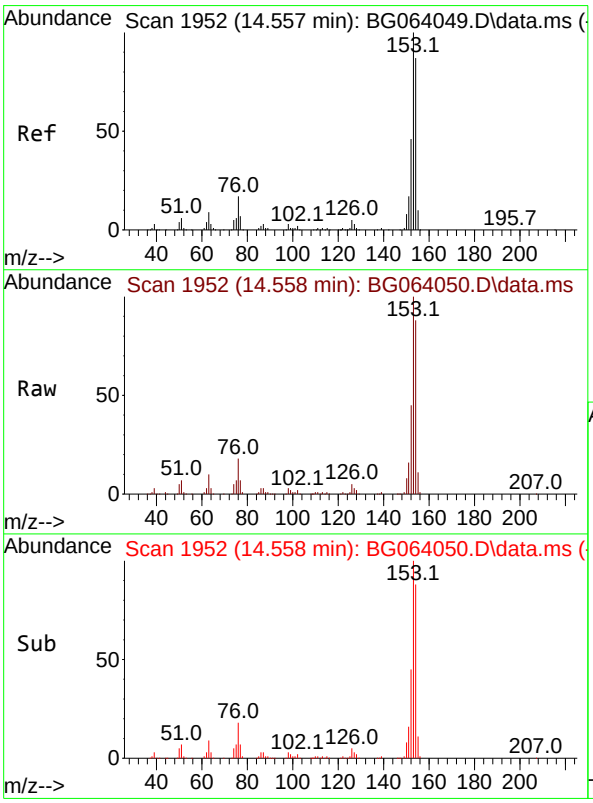
Ion	Ratio	Lower	Upper
165	100		
63	81.0	56.7	85.1
89	73.5	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

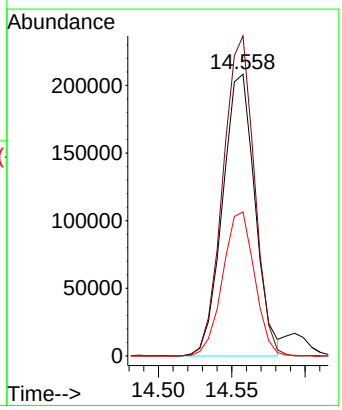
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

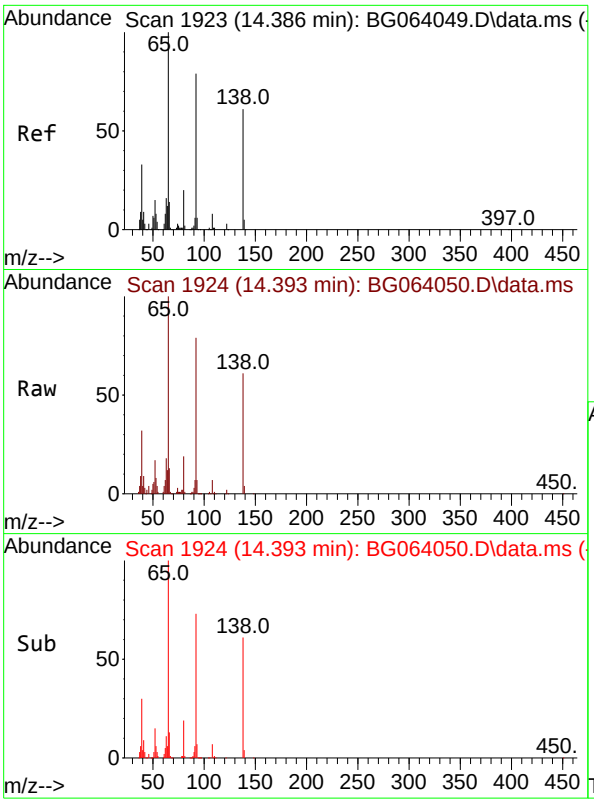


#52
Acenaphthene
Concen: 49.442 ng m
RT: 14.558 min Scan# 1952
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:154 Resp: 320276

Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.6	137.4
152	51.1	42.5	63.7

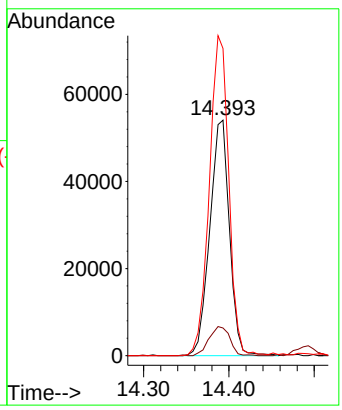




#53
3-Nitroaniline
Concen: 54.830 ng
RT: 14.393 min Scan# 1
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:138 Resp: 8645

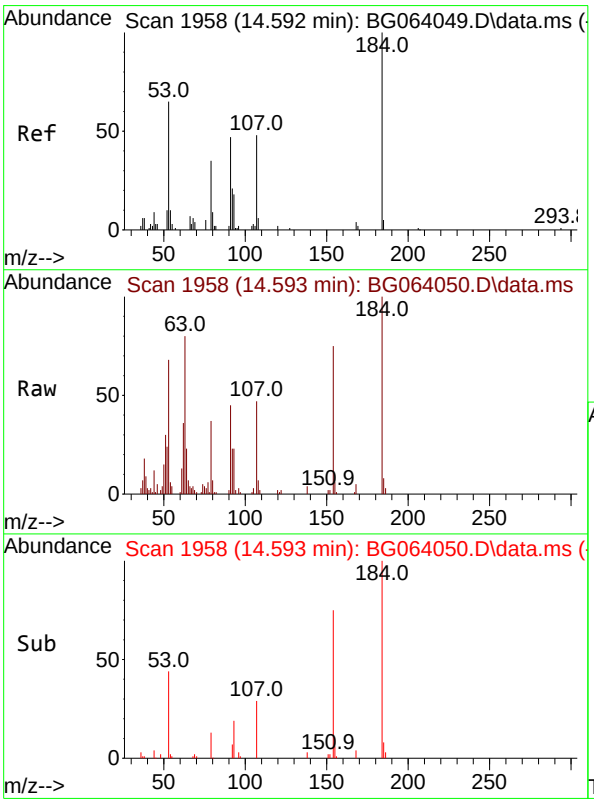
Ion	Ratio	Lower	Upper
138	100		
108	11.7	10.1	15.1
92	130.4	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

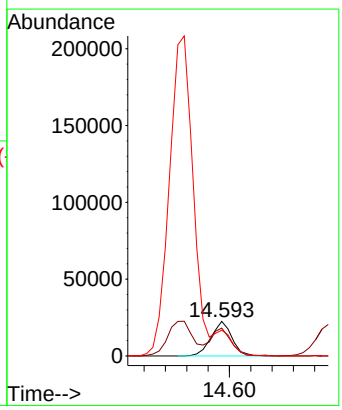
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

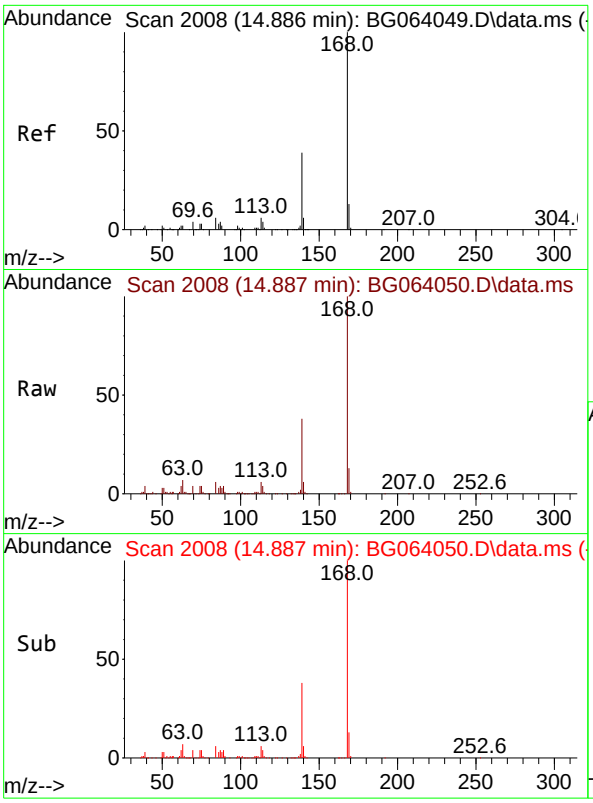


#54
2,4-Dinitrophenol
Concen: 48.003 ng
RT: 14.593 min Scan# 1958
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:184 Resp: 30713

Ion	Ratio	Lower	Upper
184	100		
63	80.4	57.5	86.3
154	74.7	52.3	78.5

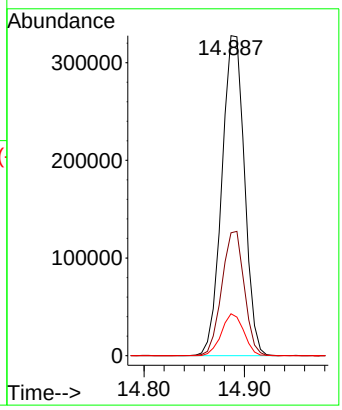




#55
Dibenzofuran
Concen: 48.883 ng
RT: 14.887 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:168 Resp: 51192

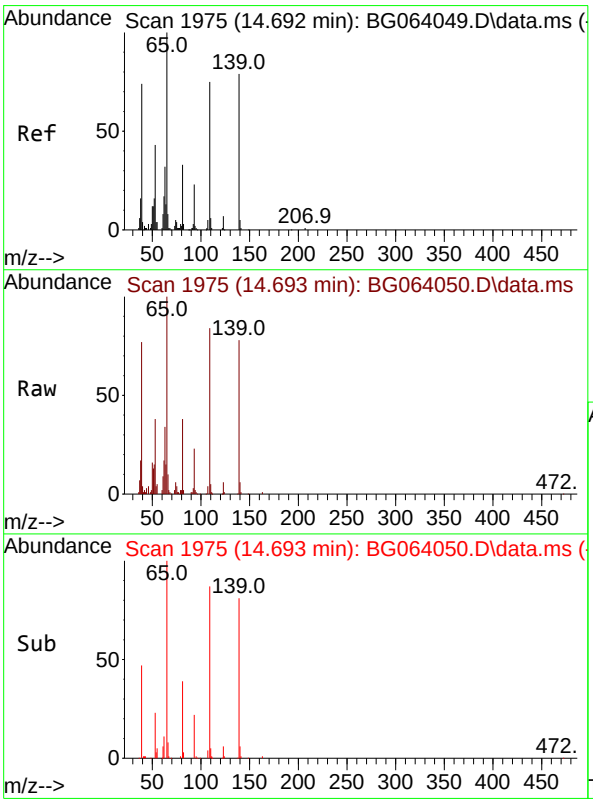
Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.1	46.7
169	13.1	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

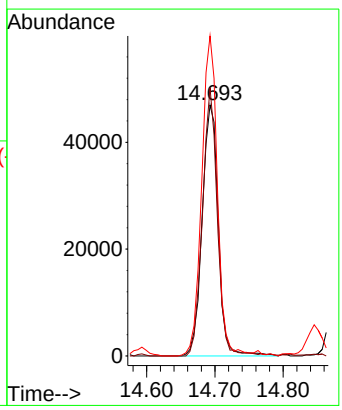
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

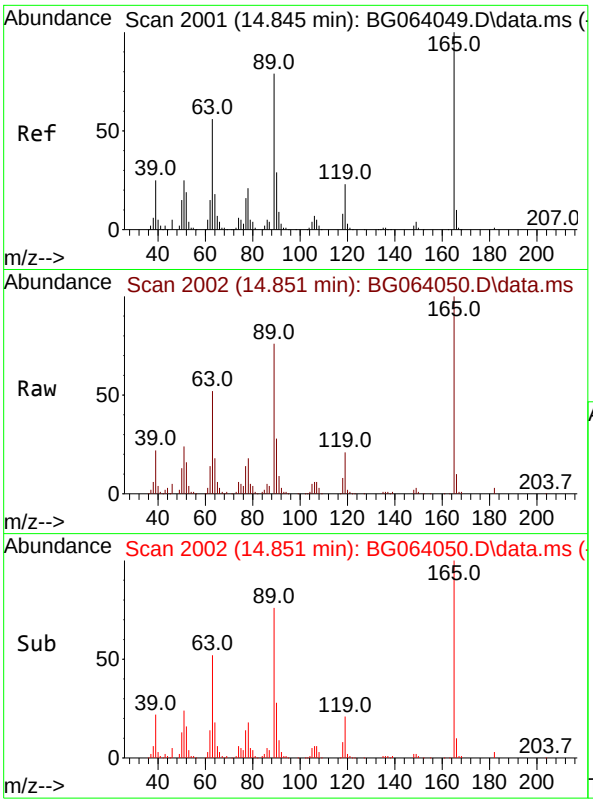


#56
4-Nitrophenol
Concen: 58.485 ng
RT: 14.693 min Scan# 1975
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:139 Resp: 77342

Ion	Ratio	Lower	Upper
139	100		
109	106.8	74.9	114.9
65	127.5	106.8	146.8

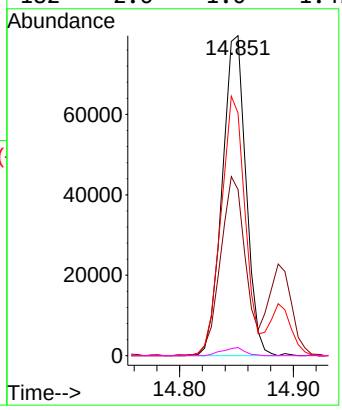




#57
2,4-Dinitrotoluene
Concen: 50.361 ng
RT: 14.851 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:165 Resp: 11545

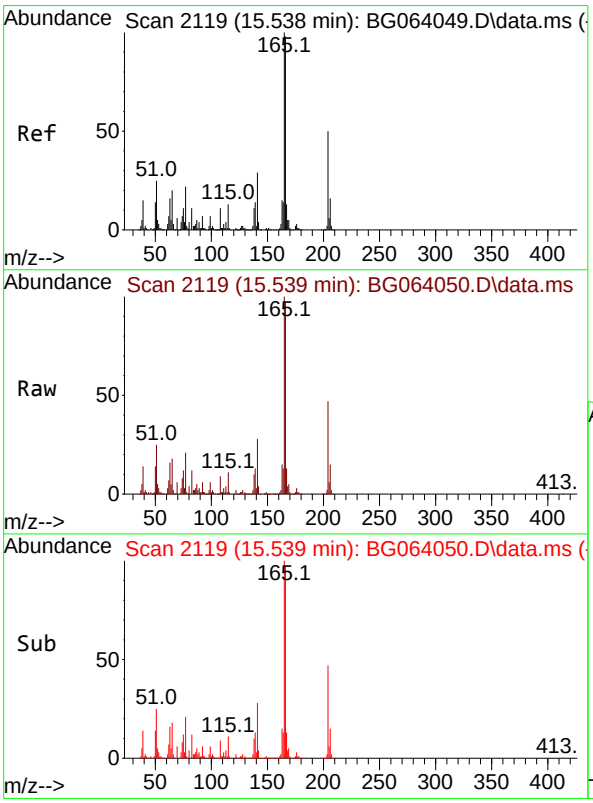
Ion	Ratio	Lower	Upper
165	100		
63	51.9	45.0	67.6
89	75.8	63.1	94.7
182	2.6	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

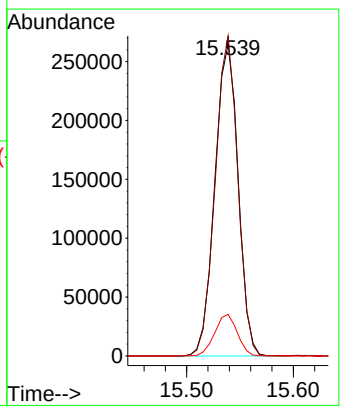
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

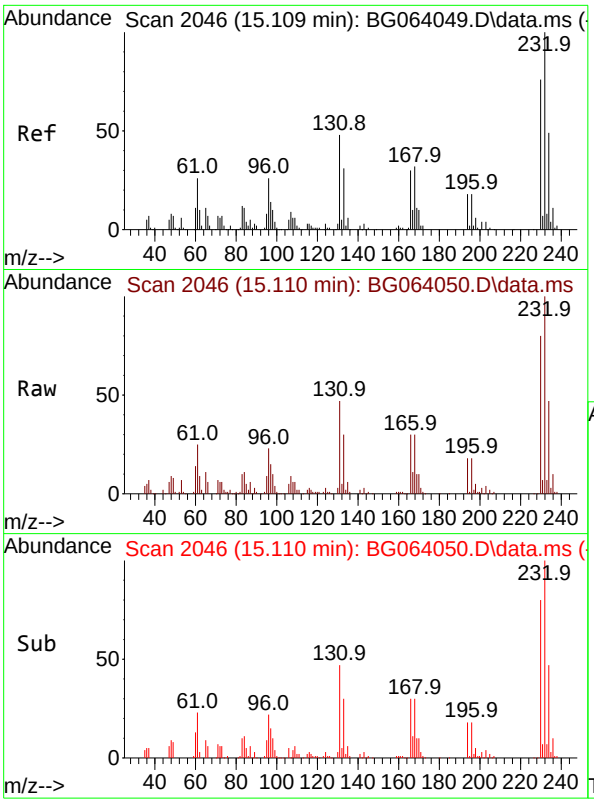


#58
Fluorene
Concen: 49.182 ng
RT: 15.539 min Scan# 2119
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:166 Resp: 401156

Ion	Ratio	Lower	Upper
166	100		
165	102.7	81.8	122.8
167	13.4	10.8	16.2

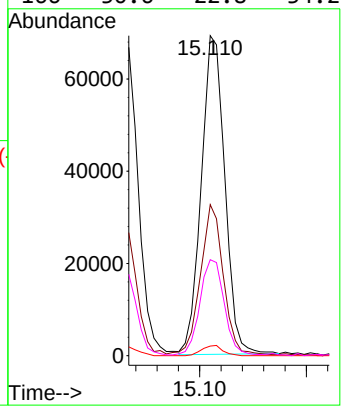




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.772 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:232 Resp: 10630

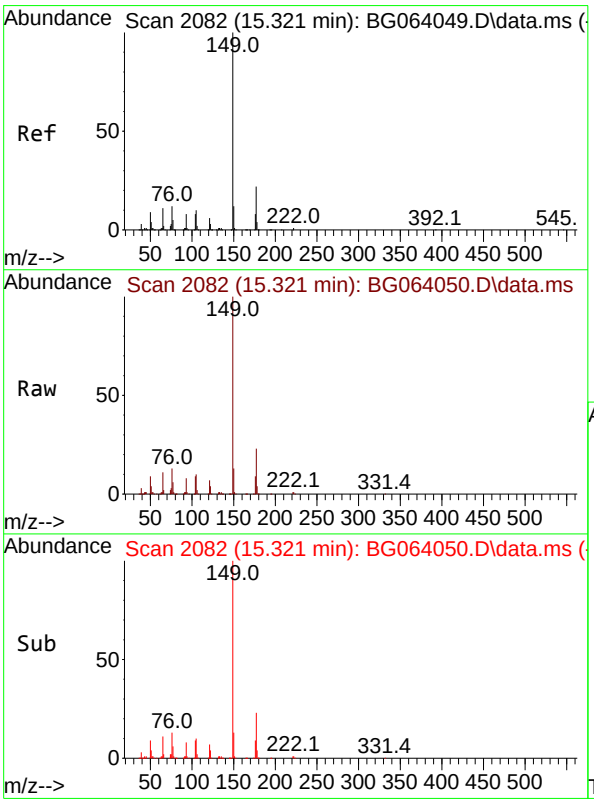
Ion	Ratio	Lower	Upper
232	100		
131	45.8	36.3	54.5
130	2.9	1.9	2.9
166	30.6	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

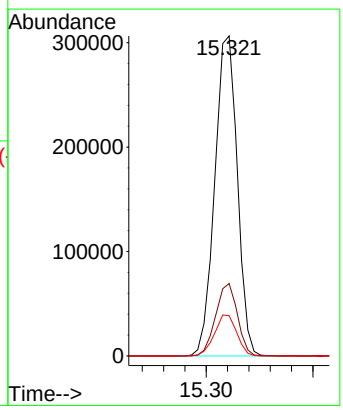
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

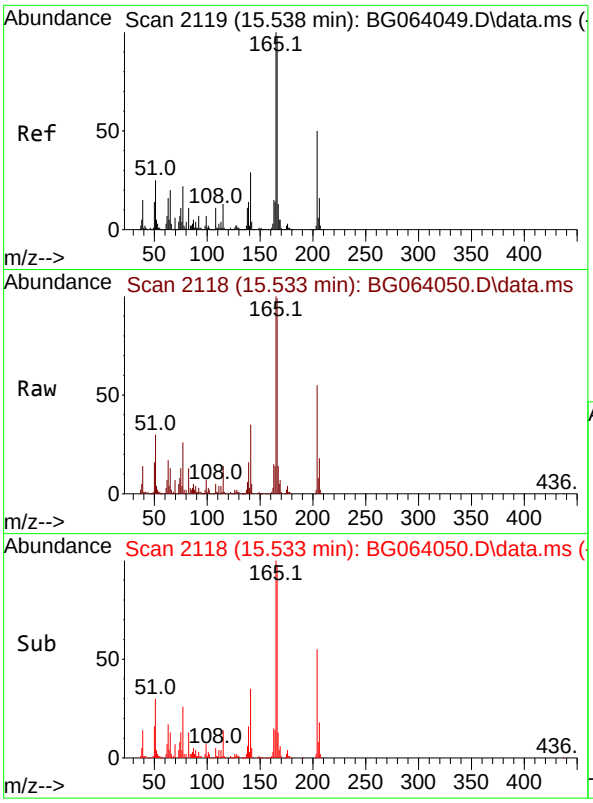


#60
Diethylphthalate
Concen: 50.673 ng
RT: 15.321 min Scan# 2082
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 448796

Ion	Ratio	Lower	Upper
149	100		
177	22.6	17.4	26.2
150	12.6	9.4	14.2

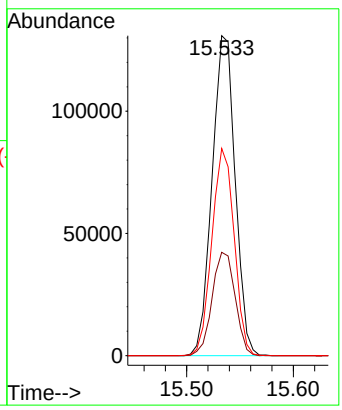




#61
4-Chlorophenyl-phenylether
Concen: 48.525 ng
RT: 15.533 min Scan# 21
Delta R.T. -0.005 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:204 Resp: 19668

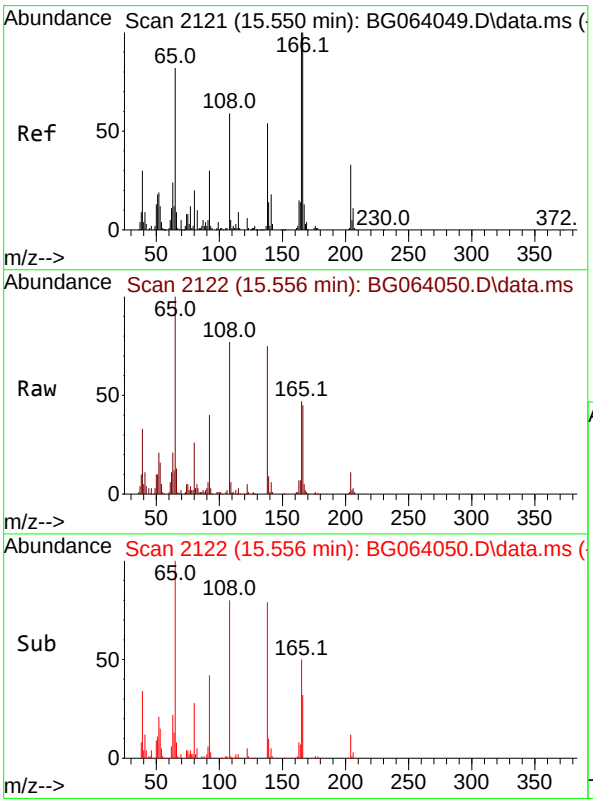
Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.5	38.3
141	64.7	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

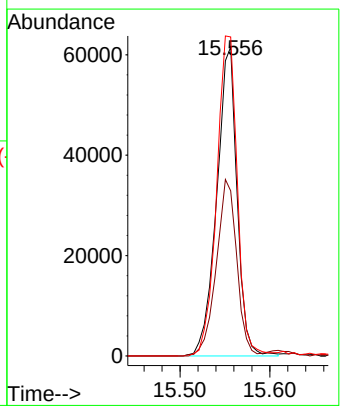
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

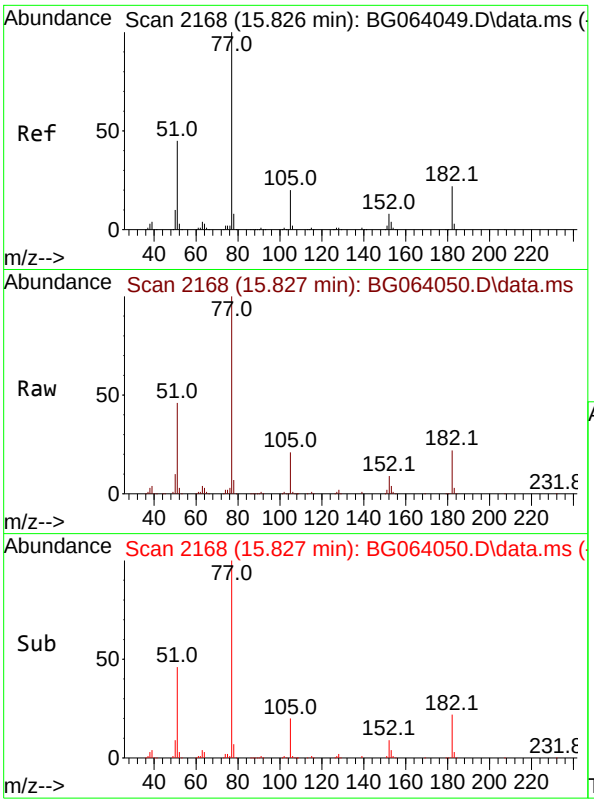


#62
4-Nitroaniline
Concen: 56.899 ng
RT: 15.556 min Scan# 2122
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:138 Resp: 96864

Ion	Ratio	Lower	Upper
138	100		
92	53.5	36.1	76.1
108	103.2	87.9	127.9

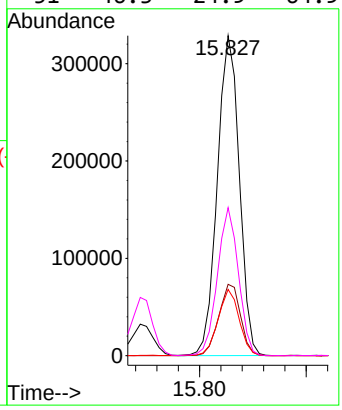




#63
Azobenzene
Concen: 49.712 ng
RT: 15.827 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion: 77 Resp: 46983

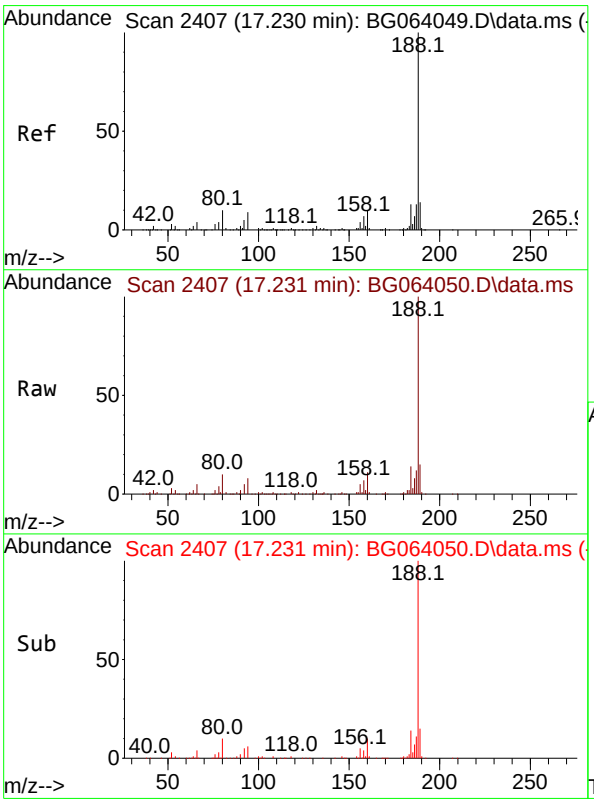
Ion	Ratio	Lower	Upper
77	100		
182	22.3	2.4	42.4
105	20.7	0.0	40.0
51	46.3	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

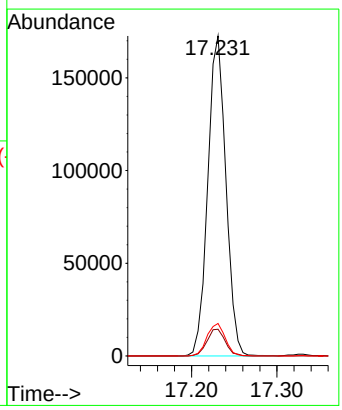
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

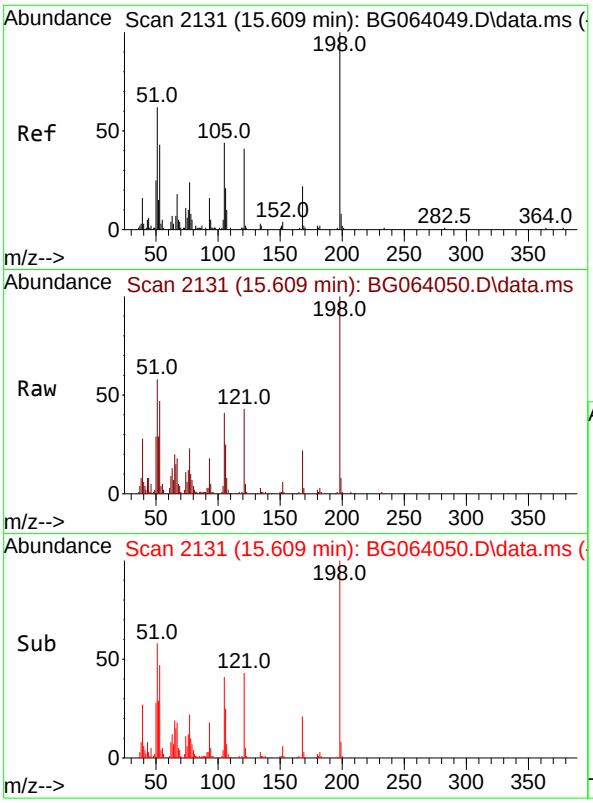


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.231 min Scan# 2407
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:188 Resp: 254221

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.9	10.3
80	10.1	8.1	12.1

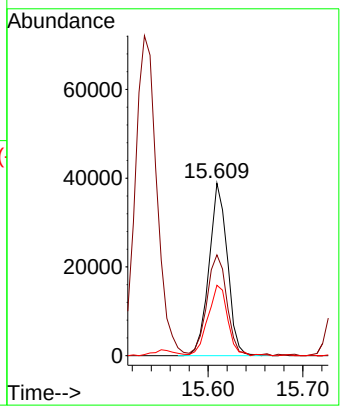




#65
4,6-Dinitro-2-methylphenol
Concen: 47.566 ng
RT: 15.609 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:198 Resp: 5214

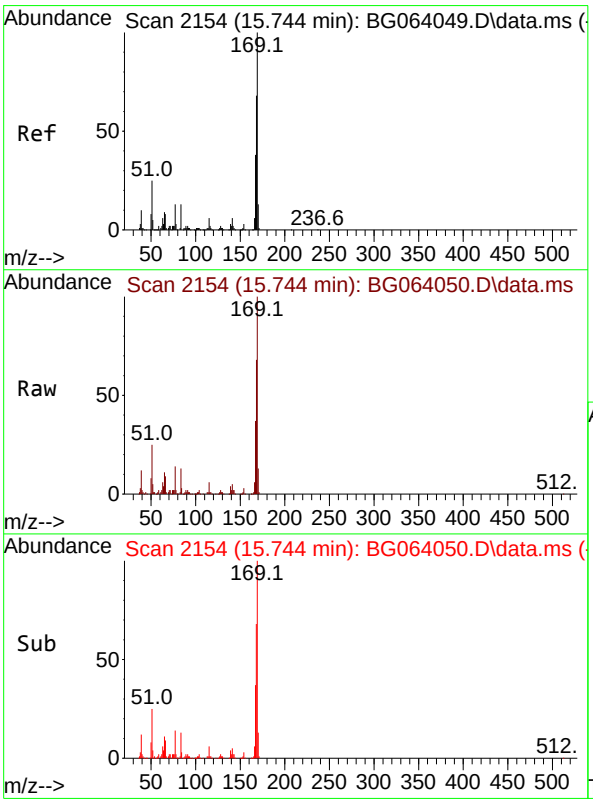
Ion	Ratio	Lower	Upper
198	100		
51	58.5	45.6	85.6
105	40.9	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

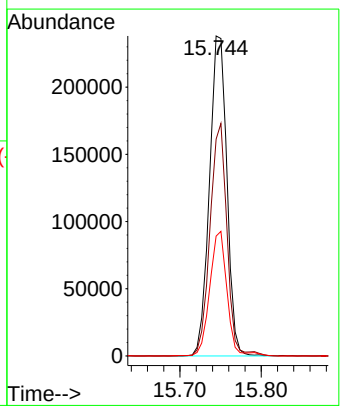
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

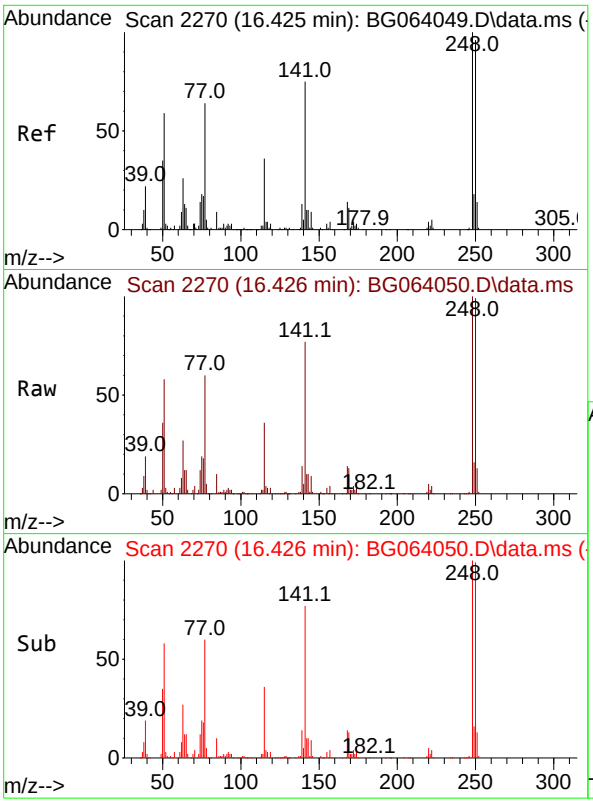


#66
n-Nitrosodiphenylamine
Concen: 49.240 ng
RT: 15.744 min Scan# 2154
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:169 Resp: 354329

Ion	Ratio	Lower	Upper
169	100		
168	67.8	54.1	81.1
167	37.4	30.3	45.5

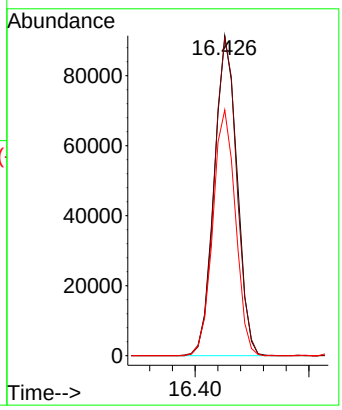




#67
4-Bromophenyl-phenylether
Concen: 48.903 ng
RT: 16.426 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:248 Resp: 12732

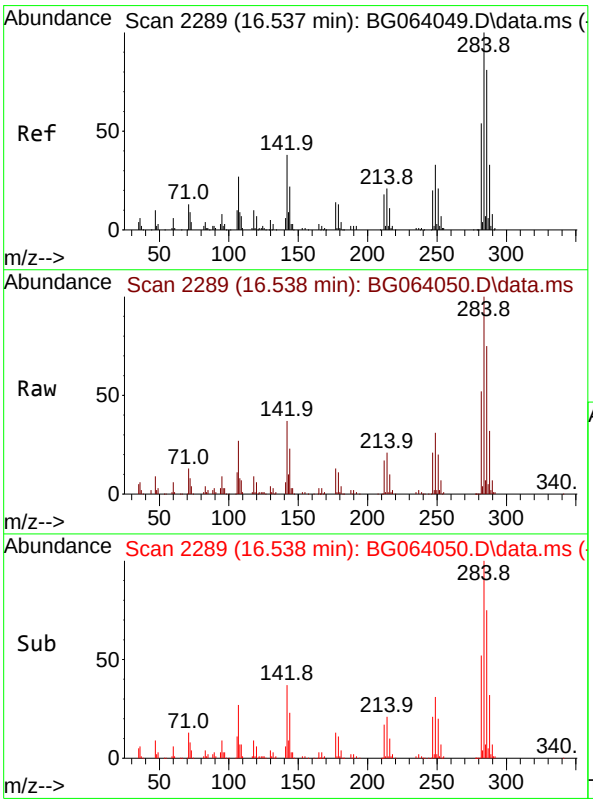
Ion	Ratio	Lower	Upper
248	100		
250	99.3	77.1	115.7
141	76.8	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

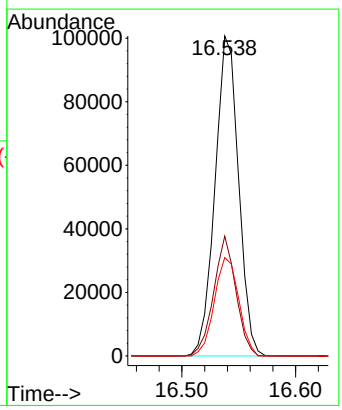
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

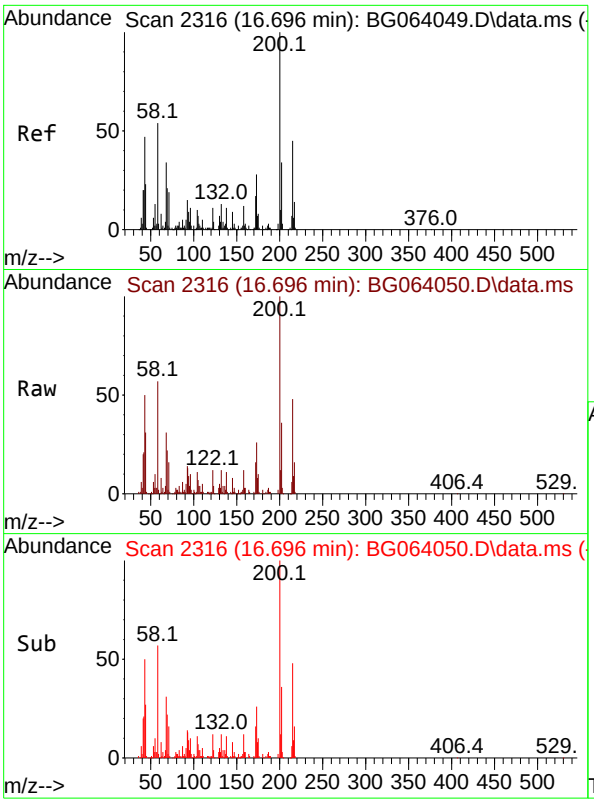


#68
Hexachlorobenzene
Concen: 49.646 ng
RT: 16.538 min Scan# 2289
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:284 Resp: 144717

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.6	45.8
249	30.7	26.6	39.8

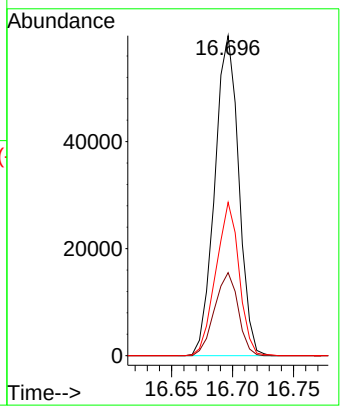




#69
Atrazine
Concen: 38.632 ng
RT: 16.696 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:200 Resp: 8179

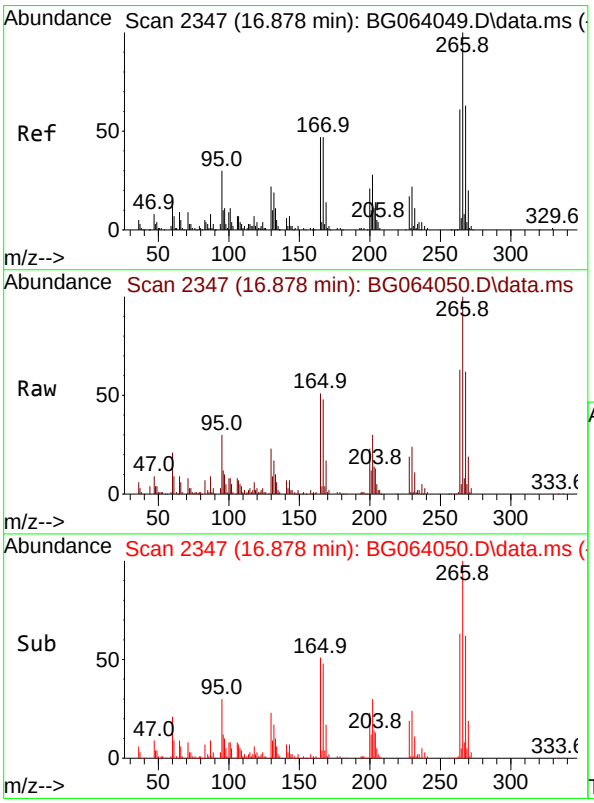
Ion	Ratio	Lower	Upper
200	100		
173	26.0	8.2	48.2
215	47.9	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

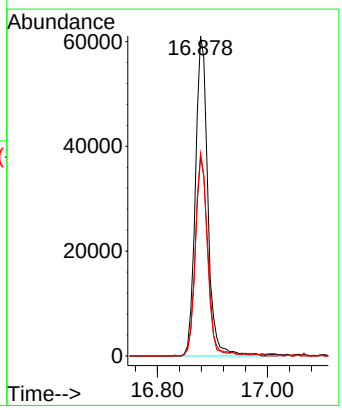
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

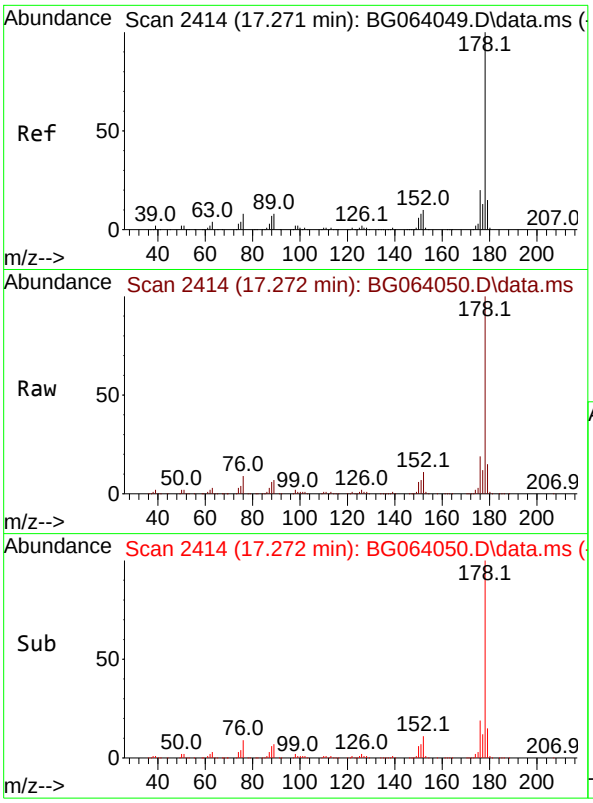


#70
Pentachlorophenol
Concen: 52.943 ng
RT: 16.878 min Scan# 2347
Delta R.T. 0.000 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:266 Resp: 95820

Ion	Ratio	Lower	Upper
266	100		
268	62.2	50.2	75.4
264	63.5	48.9	73.3

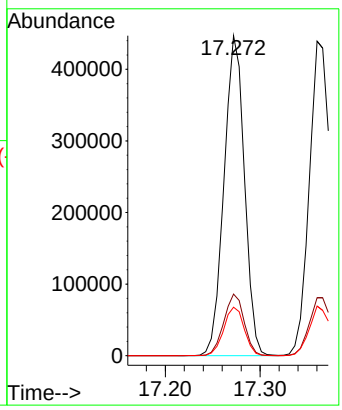




#71
Phenanthrene
Concen: 49.395 ng
RT: 17.272 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:178 Resp: 66977

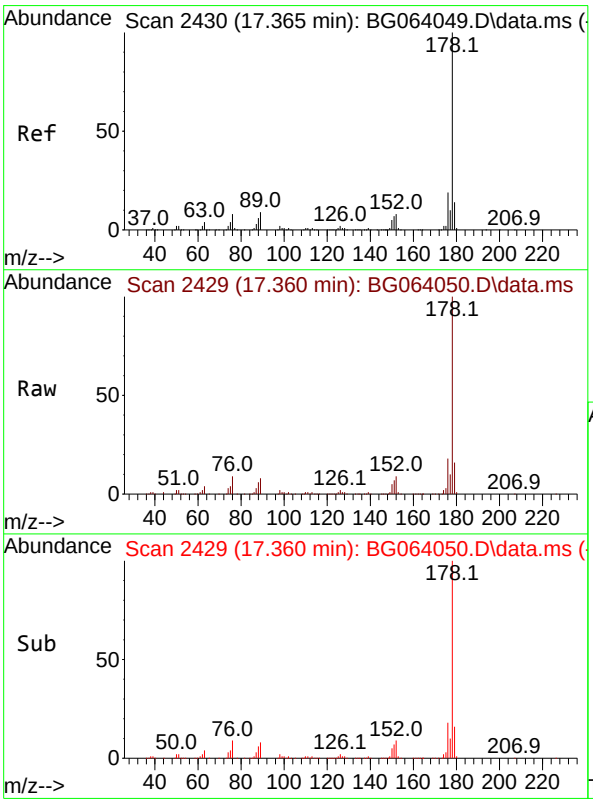
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.9	23.9
179	15.1	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

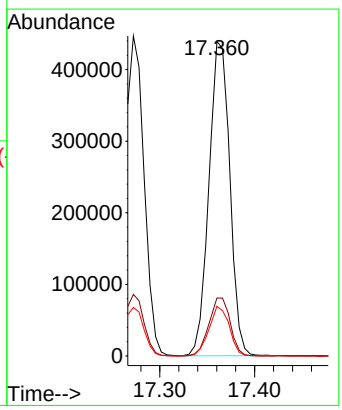
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

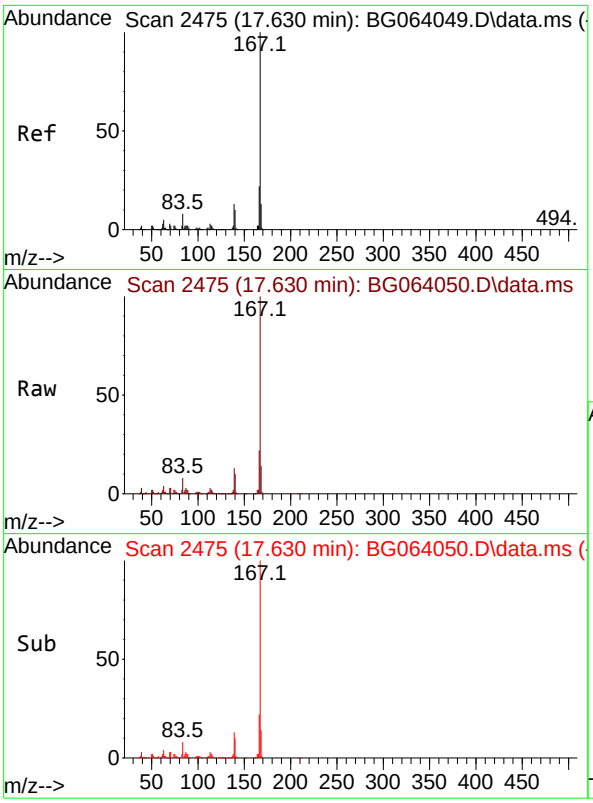


#72
Anthracene
Concen: 49.714 ng
RT: 17.360 min Scan# 2429
Delta R.T. -0.005 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:178 Resp: 670298

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.8	22.2
179	15.8	11.5	17.3

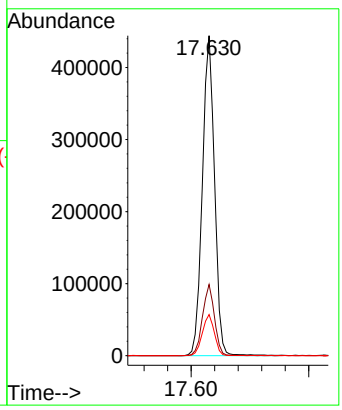




#73
Carbazole
Concen: 50.853 ng
RT: 17.630 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:167 Resp: 64016

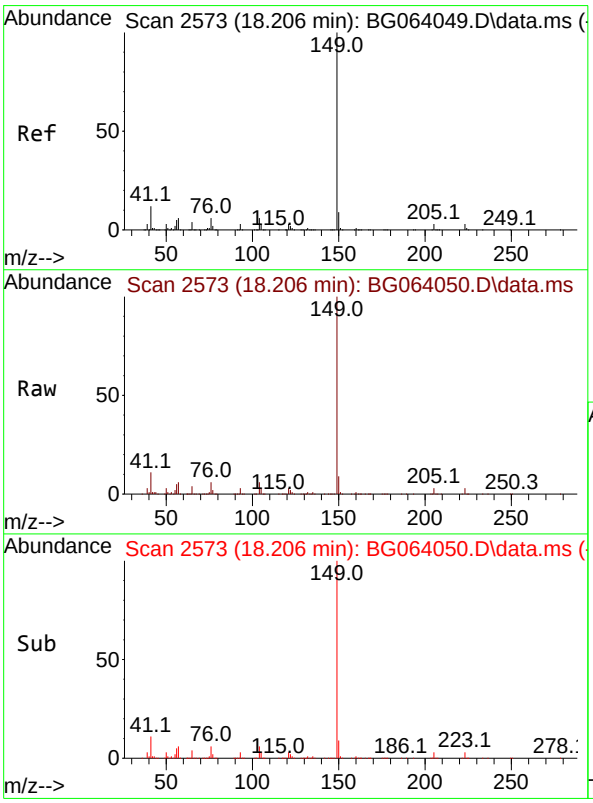
Ion	Ratio	Lower	Upper
167	100		
166	22.3	18.0	27.0
139	12.9	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

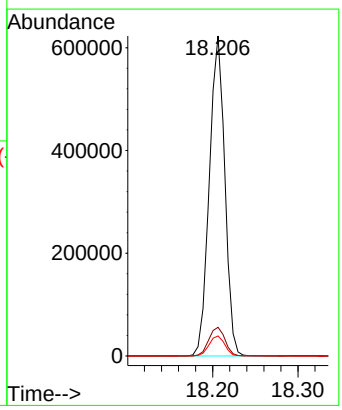
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

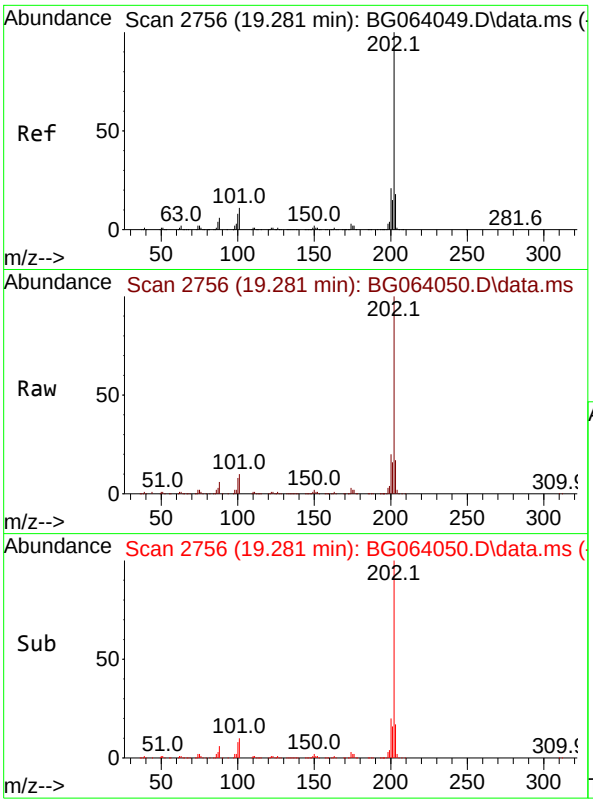


#74
Di-n-butylphthalate
Concen: 53.009 ng
RT: 18.206 min Scan# 2573
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 785487

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	6.3	5.0	7.6

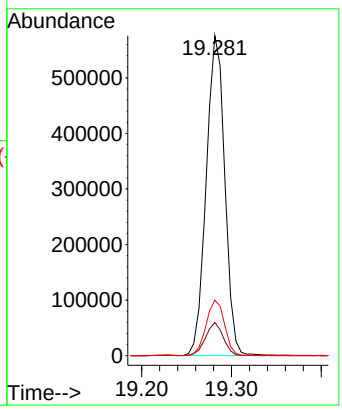




#75
Fluoranthene
Concen: 50.454 ng
RT: 19.281 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:202 Resp: 82476

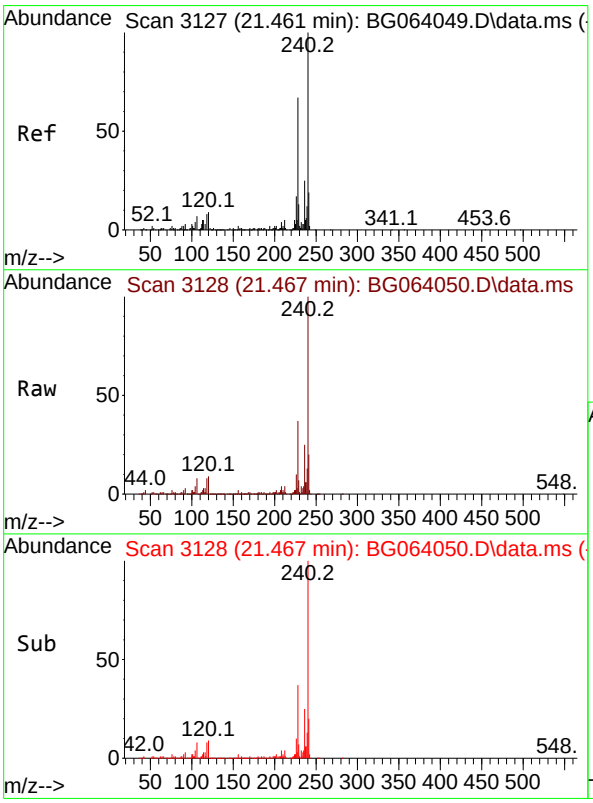
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.5
203	17.4	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

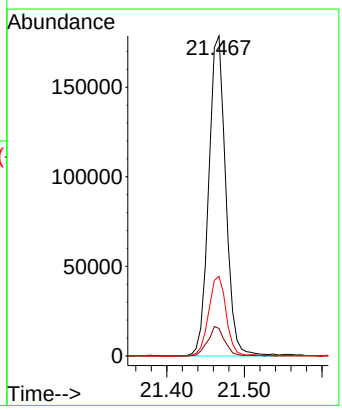
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

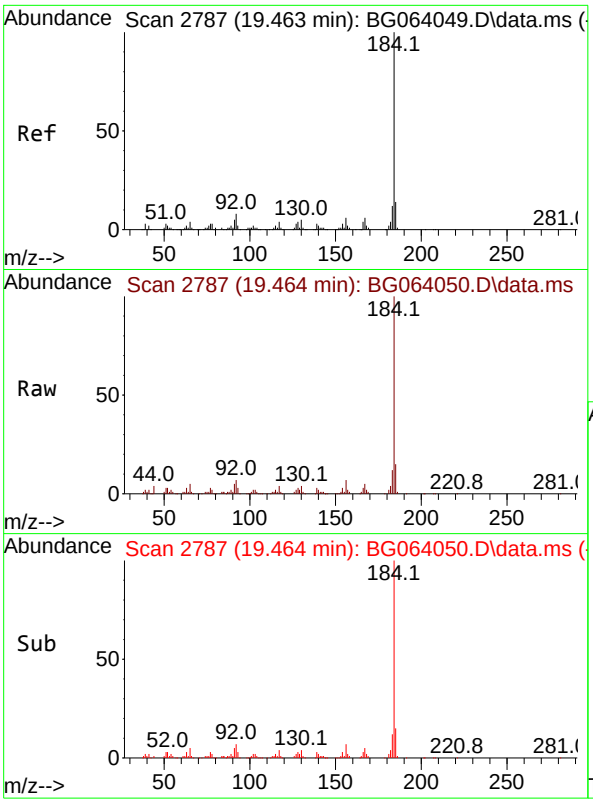


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.467 min Scan# 3128
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:240 Resp: 272579

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.2	10.8
236	24.8	20.2	30.2

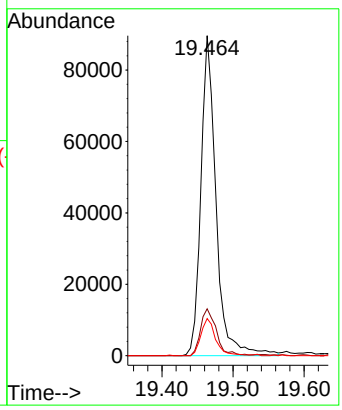




#77
Benzidine
Concen: 34.790 ng
RT: 19.464 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:184 Resp: 13312

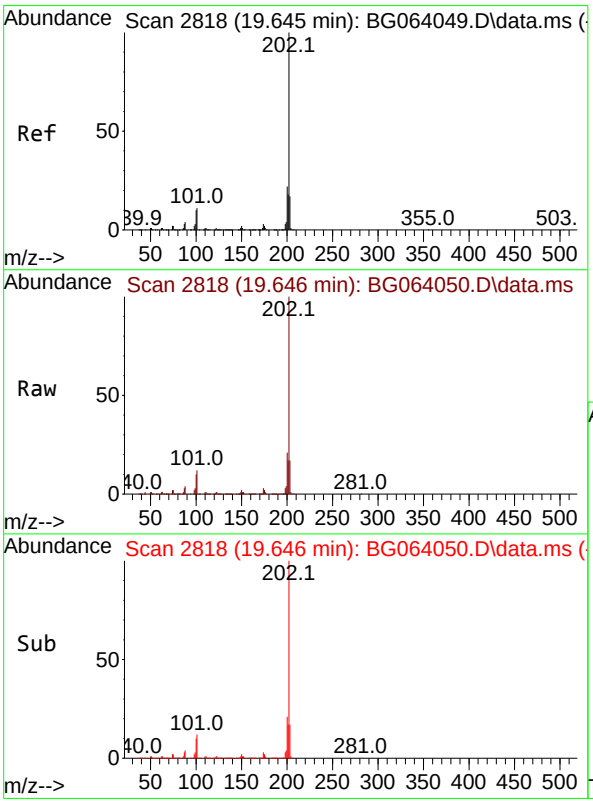
Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	11.6	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

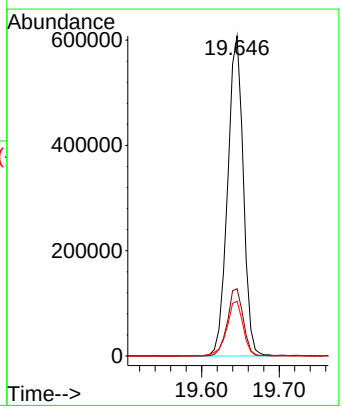
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

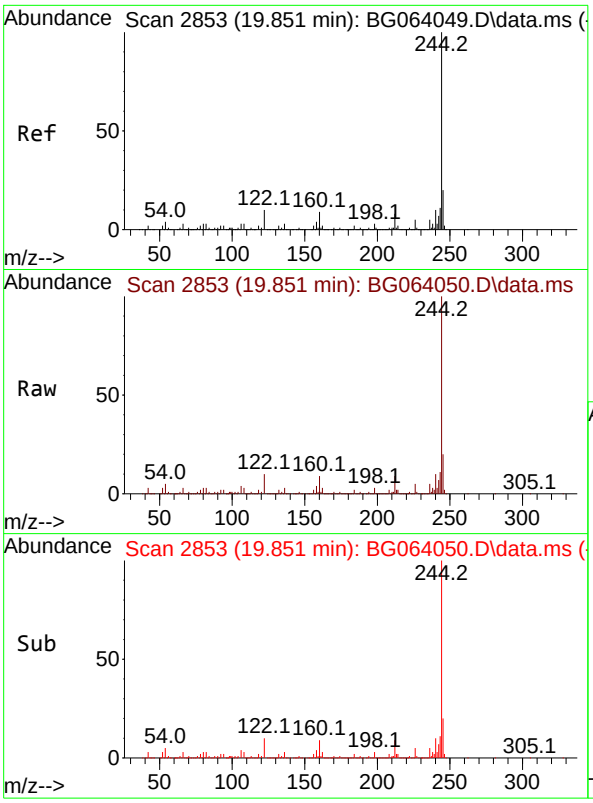


#78
Pyrene
Concen: 48.636 ng
RT: 19.646 min Scan# 2818
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:202 Resp: 854585

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.1	13.6	20.4

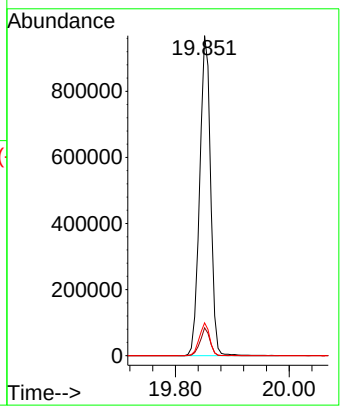




#79
Terphenyl-d14
Concen: 95.415 ng
RT: 19.851 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:244 Resp: 128626

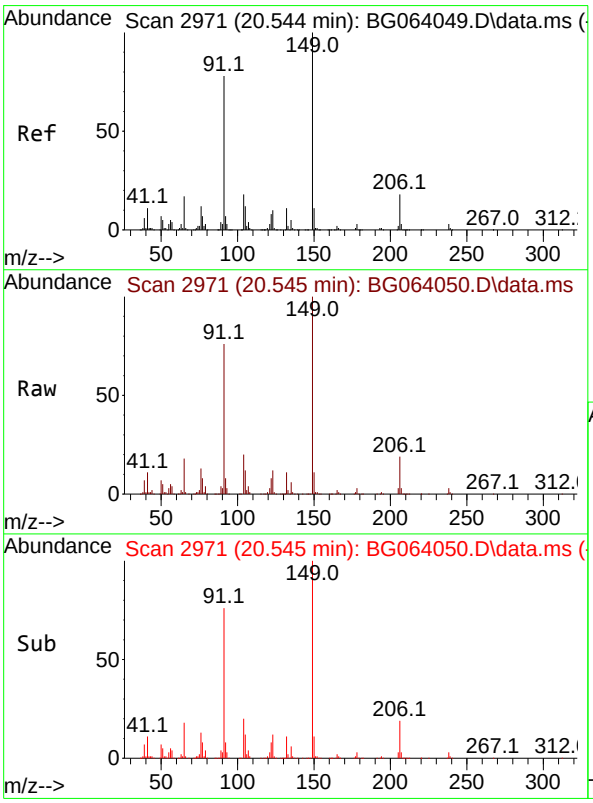
Ion	Ratio	Lower	Upper
244	100		
212	8.7	6.2	9.4
122	10.3	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

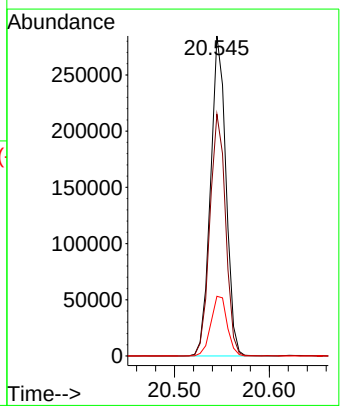
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

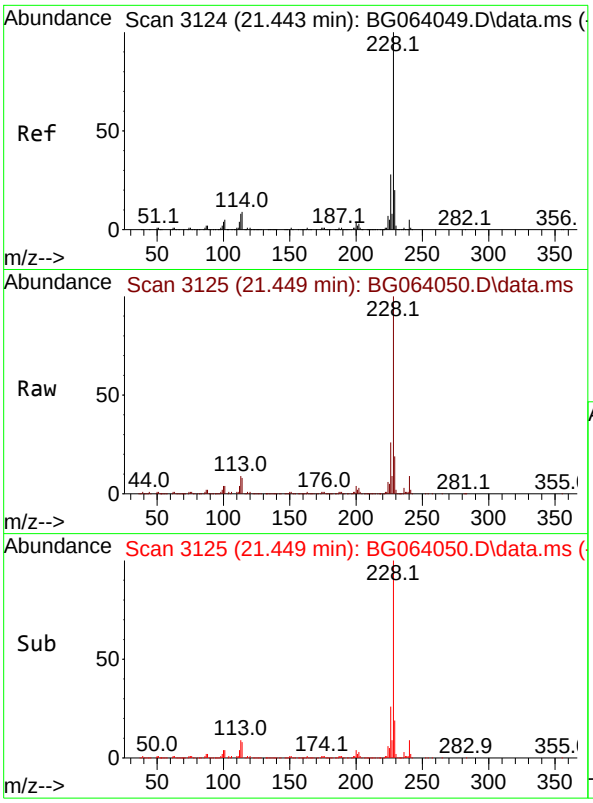


#80
Butylbenzylphthalate
Concen: 48.794 ng
RT: 20.545 min Scan# 2971
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 322148

Ion	Ratio	Lower	Upper
149	100		
91	75.5	62.0	93.0
206	18.6	14.6	21.8

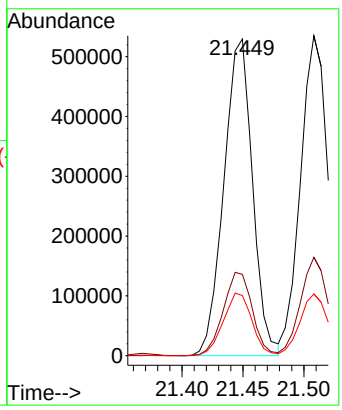




#81
Benzo(a)anthracene
Concen: 49.769 ng
RT: 21.449 min Scan# 3
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:228 Resp: 86899

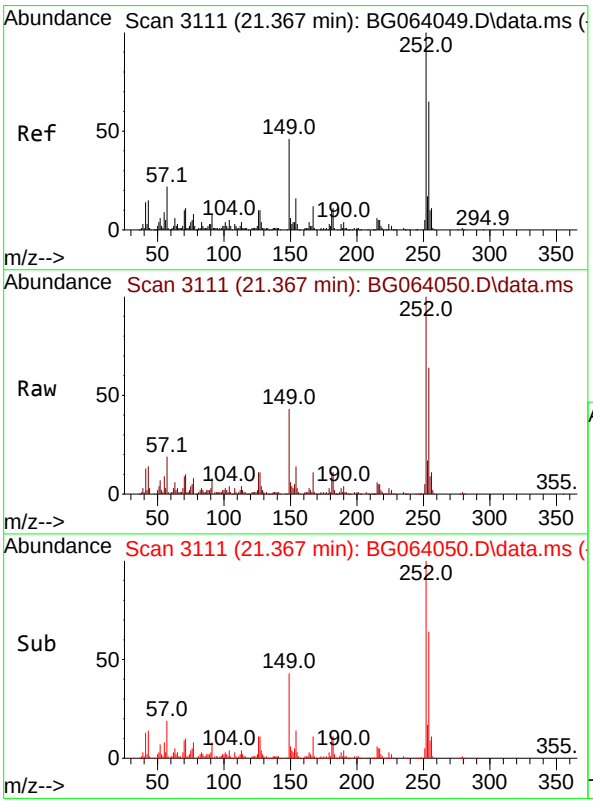
Ion	Ratio	Lower	Upper
228	100		
226	25.7	22.2	33.2
229	19.0	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

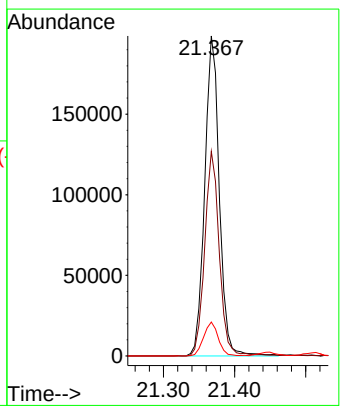
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

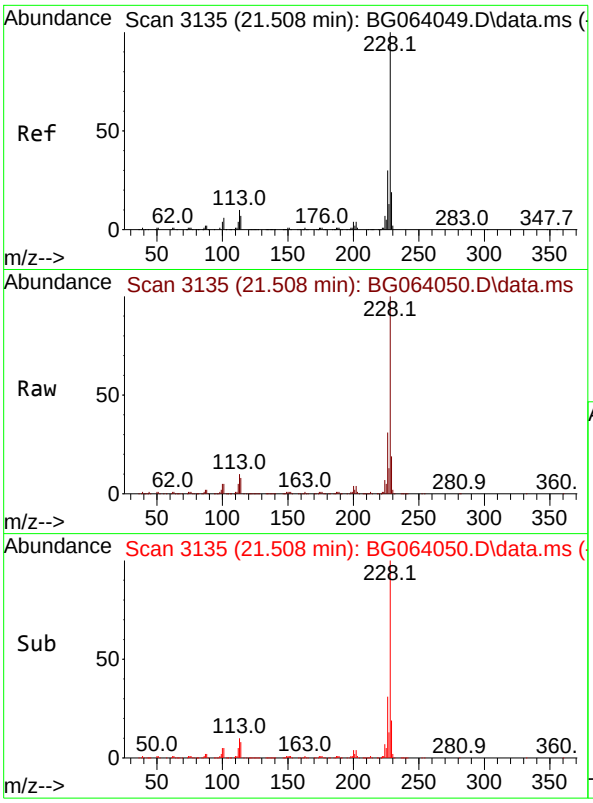


#82
3,3'-Dichlorobenzidine
Concen: 50.177 ng
RT: 21.367 min Scan# 3111
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:252 Resp: 283543

Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.1	78.1
126	10.6	7.8	11.8

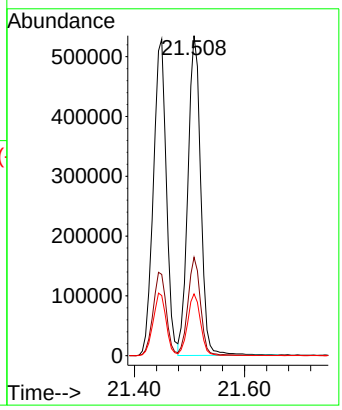




#83
Chrysene
Concen: 49.437 ng
RT: 21.508 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:228 Resp: 86092

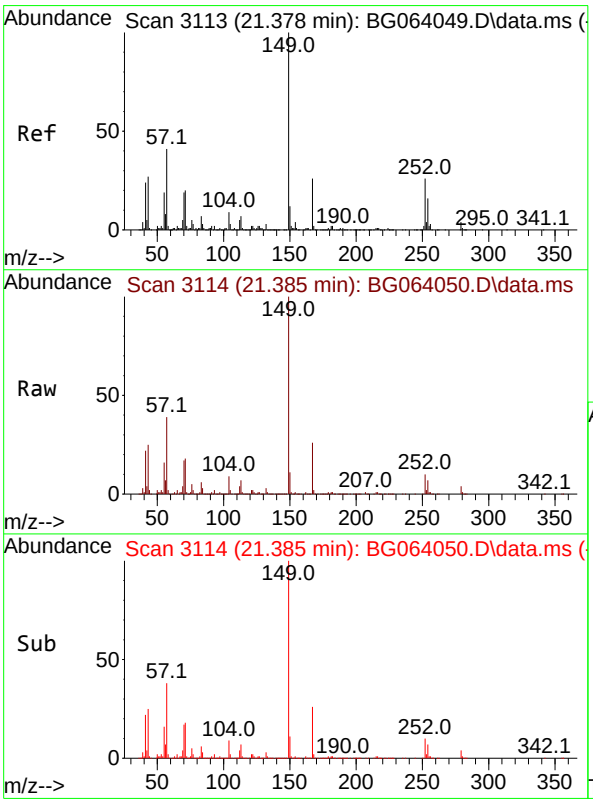
Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	19.3	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

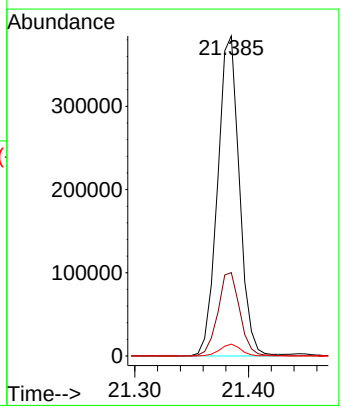
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

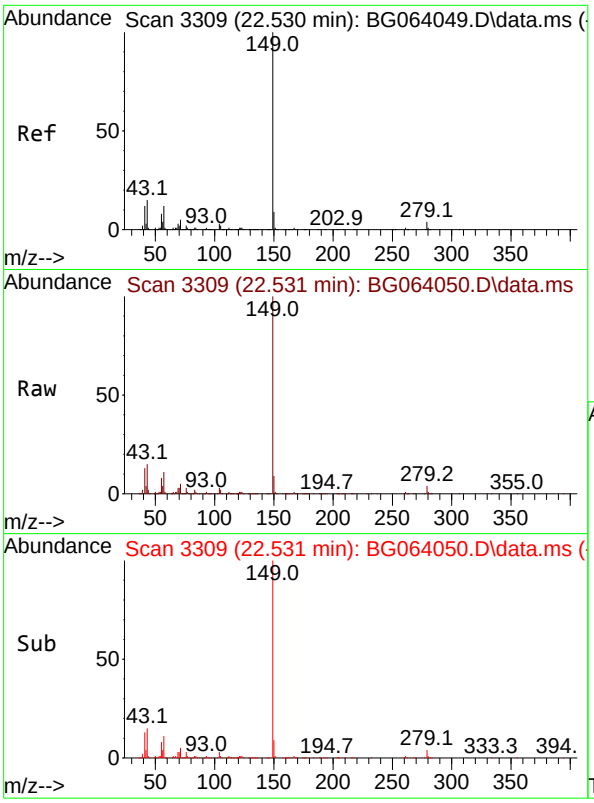


#84
Bis(2-ethylhexyl)phthalate
Concen: 54.210 ng
RT: 21.385 min Scan# 3114
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 511903

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.0	31.6
279	3.7	2.8	4.2

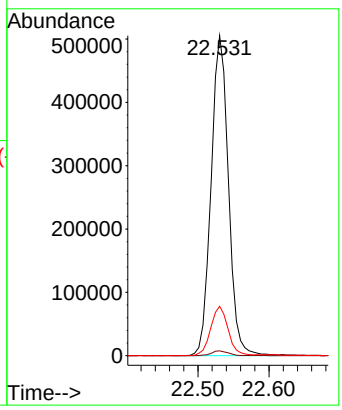




#85
Di-n-octyl phthalate
Concen: 52.538 ng
RT: 22.531 min Scan# 3
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:149 Resp: 85572

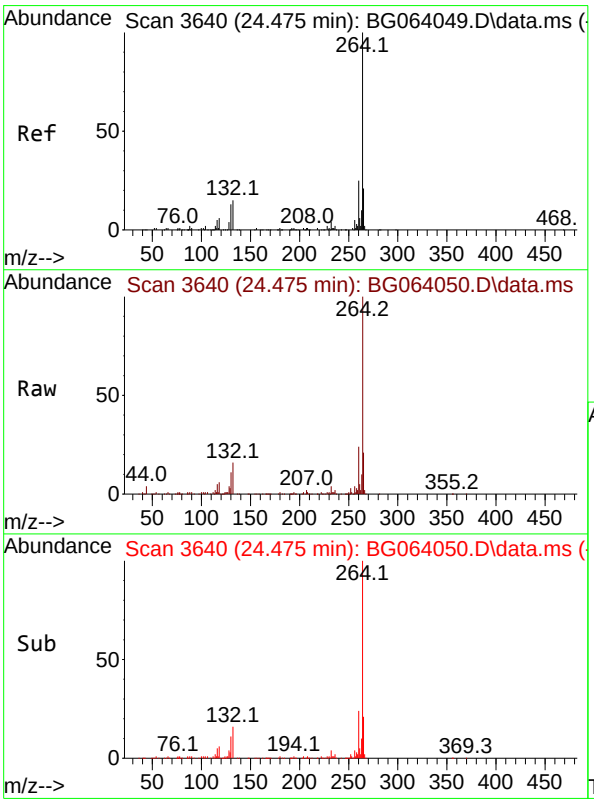
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	15.6	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

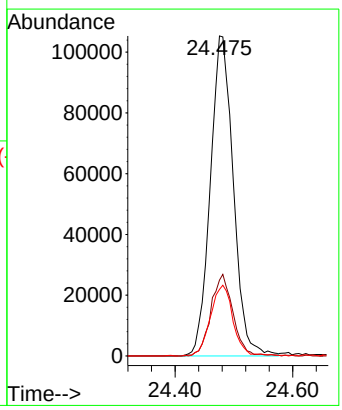
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

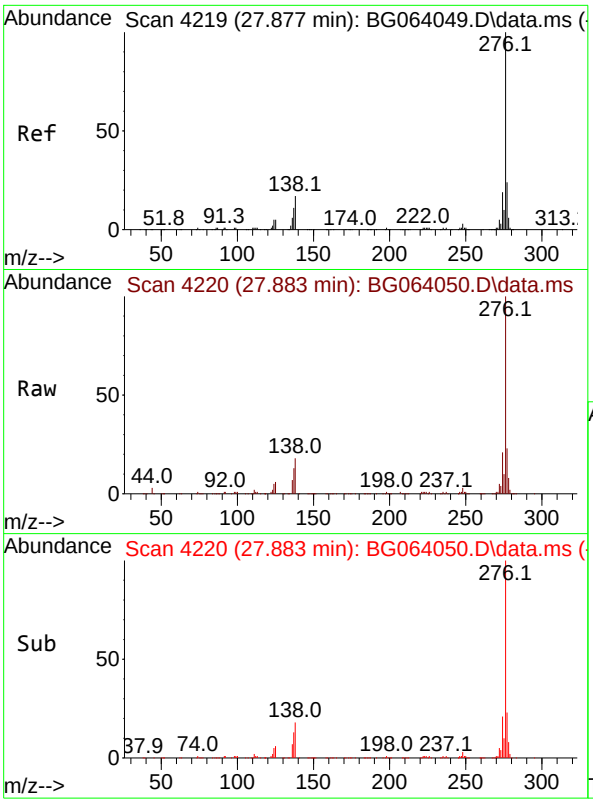


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.475 min Scan# 3640
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:264 Resp: 286555

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.6	29.4
265	20.8	16.6	25.0

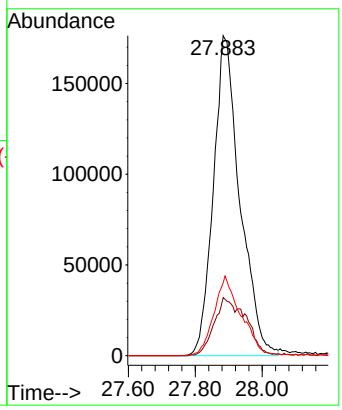




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.610 ng
RT: 27.883 min Scan# 4
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:276 Resp: 97033

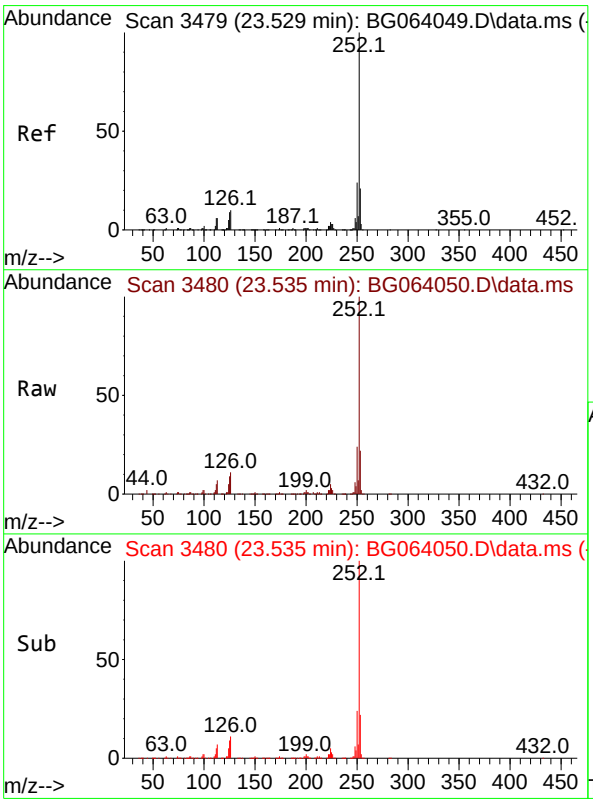
Ion	Ratio	Lower	Upper
276	100		
138	13.2	12.1	18.1
277	25.3	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

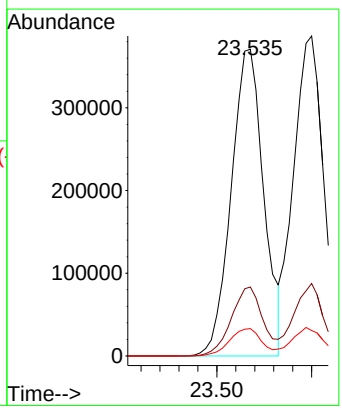
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

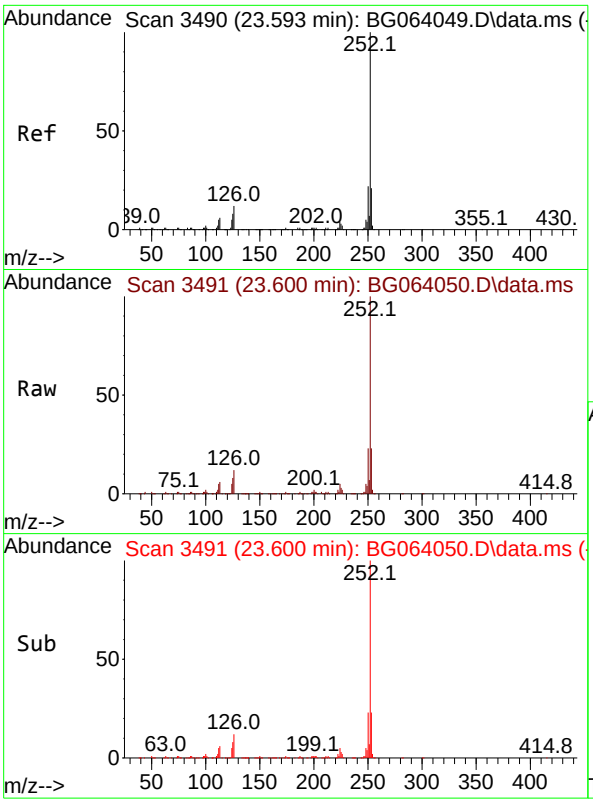


#88
Benzo(b)fluoranthene
Concen: 50.946 ng
RT: 23.535 min Scan# 3480
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:252 Resp: 882554

Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.0	25.4
125	8.9	7.4	11.2

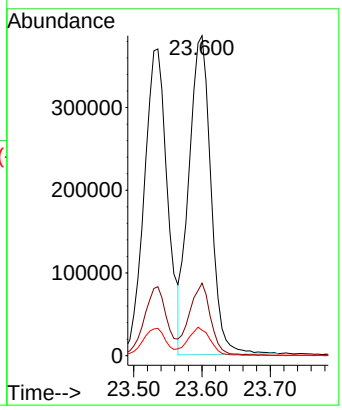




#89
Benzo(k)fluoranthene
Concen: 49.673 ng
RT: 23.600 min Scan# 34
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:252 Resp: 86326

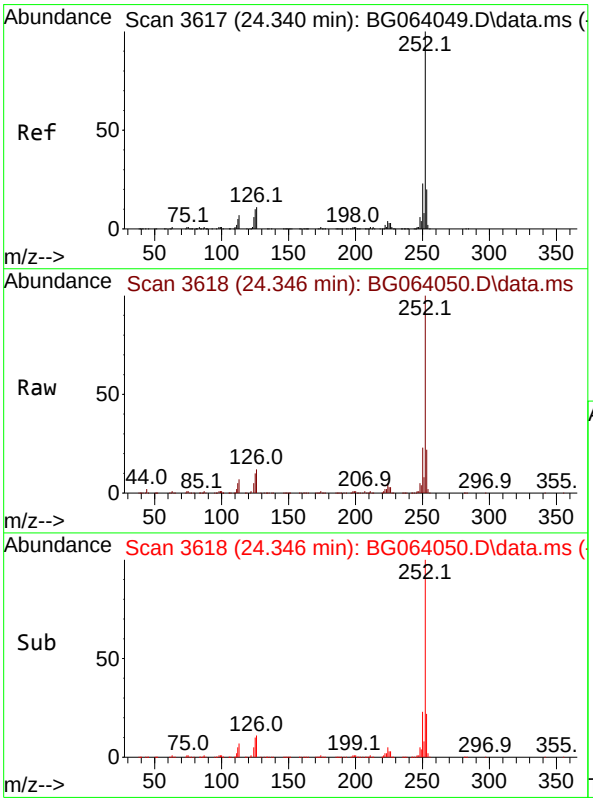
Ion	Ratio	Lower	Upper
252	100		
253	22.6	16.8	25.2
125	8.0	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

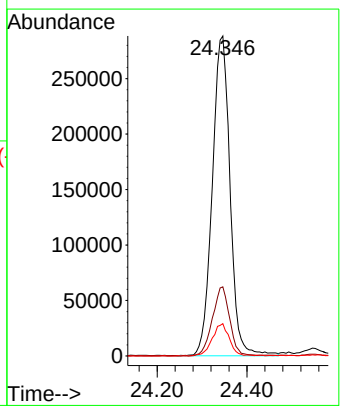
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

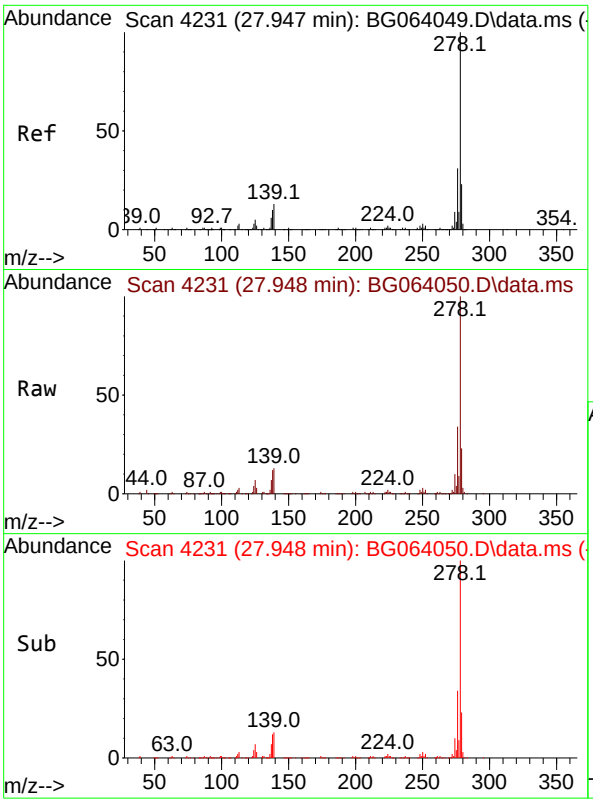


#90
Benzo(a)pyrene
Concen: 51.360 ng
RT: 24.346 min Scan# 3618
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:252 Resp: 792379

Ion	Ratio	Lower	Upper
252	100		
253	21.6	16.2	24.2
125	10.1	7.8	11.6

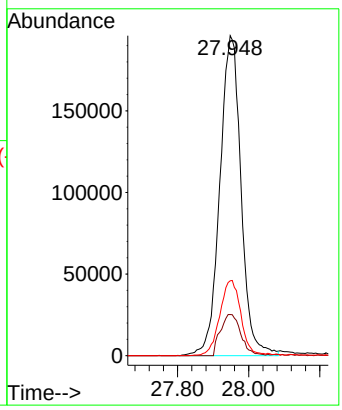




#91
Dibenzo(a,h)anthracene
Concen: 51.097 ng
RT: 27.948 min Scan# 4
Delta R.T. 0.001 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:278 Resp: 81218

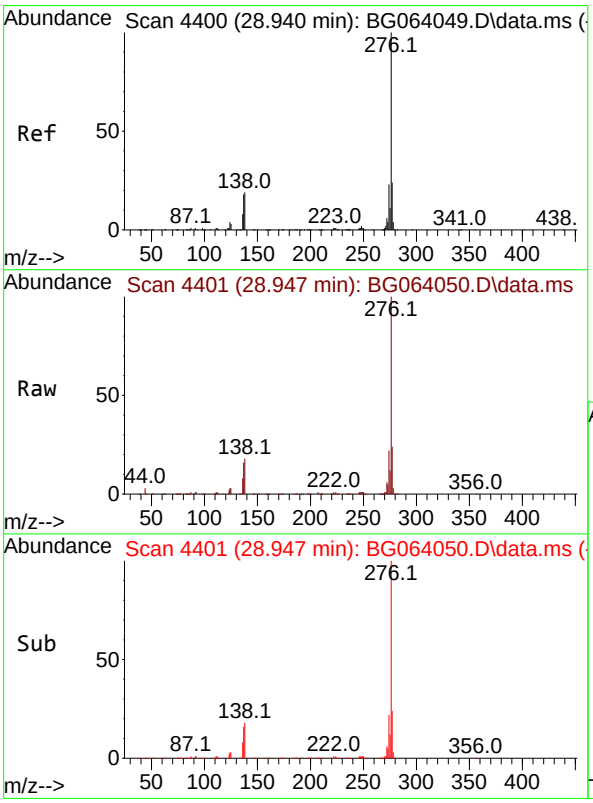
Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.2	15.2
279	23.4	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

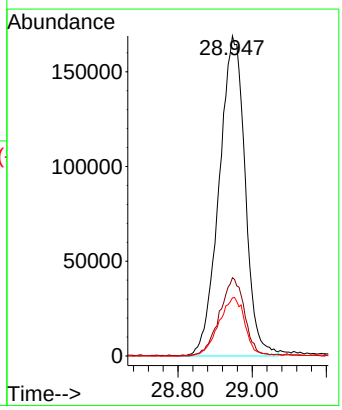
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 50.325 ng
RT: 28.947 min Scan# 4401
Delta R.T. 0.007 min
Lab File: BG064050.D
Acq: 5 Mar 2025 12:23

Tgt Ion:276 Resp: 821282

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.5	29.3
138	18.1	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064051.D
Acq On : 5 Mar 2025 13:04
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.865	152	37134	20.000	ng		0.00
21) Naphthalene-d8	10.656	136	170133	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	120501	20.000	ng		0.00
64) Phenanthrene-d10	17.230	188	267696	20.000	ng		0.00
76) Chrysene-d12	21.467	240	267699	20.000	ng		0.00
86) Perylene-d12	24.481	264	289231	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.450	112	293555	123.437	ng		0.00
7) Phenol-d6	7.031	99	409752	126.652	ng		0.00
23) Nitrobenzene-d5	9.022	82	408232	132.600	ng		0.00
42) 2,4,6-Tribromophenol	15.979	330	180569	134.808	ng		0.00
45) 2-Fluorobiphenyl	13.118	172	928658	116.978	ng		0.00
79) Terphenyl-d14	19.851	244	1536841	116.081	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.376	88	60005	55.674	ng		98
3) Pyridine	3.764	79	153247	58.464	ng		100
4) n-Nitrosodimethylamine	3.682	42	116662	62.293	ng		99
6) Aniline	7.195	93	194727	61.338	ng		99
8) 2-Chlorophenol	7.430	128	158149	61.917	ng		97
9) Benzaldehyde	7.007	77	94743	50.099	ng		97
10) Phenol	7.060	94	211698	63.911	ng		97
11) bis(2-Chloroethyl)ether	7.295	93	157937	60.818	ng		99
12) 1,3-Dichlorobenzene	7.759	146	169236	60.337	ng		97
13) 1,4-Dichlorobenzene	7.900	146	171129	59.524	ng		98
14) 1,2-Dichlorobenzene	8.217	146	169937	61.300	ng		98
15) Benzyl Alcohol	8.100	79	163423	65.368	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.394	45	358503	61.396	ng		98
17) 2-Methylphenol	8.300	107	141394	64.317	ng		96
18) Hexachloroethane	8.946	117	64767	64.389	ng		94
19) n-Nitroso-di-n-propyla...	8.676	70	147291	64.871	ng		97
20) 3+4-Methylphenols	8.635	107	200990	66.409	ng		94
22) Acetophenone	8.682	105	286250	61.365	ng	#	98
24) Nitrobenzene	9.064	77	208758	65.613	ng		95
25) Isophorone	9.586	82	386627	62.743	ng		97
26) 2-Nitrophenol	9.769	139	72153	61.605	ng		95
27) 2,4-Dimethylphenol	9.827	122	122021	66.054	ng		98
28) bis(2-Chloroethoxy)met...	10.068	93	229336	61.387	ng		98
29) 2,4-Dichlorophenol	10.303	162	153766	65.920	ng		97
30) 1,2,4-Trichlorobenzene	10.521	180	170860	60.677	ng		98
31) Naphthalene	10.703	128	559954	61.037	ng		99
32) Benzoic acid	9.998	122	110878m	62.274	ng		
33) 4-Chloroaniline	10.809	127	214091	63.850	ng		98
34) Hexachlorobutadiene	10.997	225	112408	60.903	ng		98
35) Caprolactam	11.596	113	57227	64.020	ng		95
36) 4-Chloro-3-methylphenol	11.931	107	199201	65.149	ng		97
37) 2-Methylnaphthalene	12.313	142	397524	61.379	ng		99
38) 1-Methylnaphthalene	12.536	142	391774	61.745	ng		95
40) 1,2,4,5-Tetrachloroben...	12.683	216	203188	59.063	ng		98
41) Hexachlorocyclopentadiene	12.665	237	65070	67.203	ng		96
43) 2,4,6-Trichlorophenol	12.918	196	133197	65.693	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064051.D
Acq On : 5 Mar 2025 13:04
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	147199	65.338	ng		97
46) 1,1'-Biphenyl	13.329	154	546747	60.056	ng		99
47) 2-Chloronaphthalene	13.364	162	405177	61.023	ng		98
48) 2-Nitroaniline	13.564	65	143213	61.521	ng		97
49) Acenaphthylene	14.210	152	642256	61.154	ng		99
50) Dimethylphthalate	13.958	163	545112	61.282	ng		99
51) 2,6-Dinitrotoluene	14.064	165	110825	60.475	ng		92
52) Acenaphthene	14.557	154	423181	59.918	ng		99
53) 3-Nitroaniline	14.393	138	118880	69.150	ng		99
54) 2,4-Dinitrophenol	14.592	184	43597	60.118	ng	#	82
55) Dibenzofuran	14.892	168	673760	59.009	ng		100
56) 4-Nitrophenol	14.698	139	97685	67.751	ng		97
57) 2,4-Dinitrotoluene	14.851	165	153908	60.762	ng	#	98
58) Fluorene	15.538	166	527952	59.367	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.115	232	145394	66.199	ng		96
60) Diethylphthalate	15.321	149	591838	61.289	ng		100
61) 4-Chlorophenyl-phenyle...	15.538	204	260768	59.007	ng		93
62) 4-Nitroaniline	15.556	138	122494	65.996	ng		97
63) Azobenzene	15.826	77	616384	59.818	ng		99
65) 4,6-Dinitro-2-methylph...	15.615	198	74058	61.305	ng		97
66) n-Nitrosodiphenylamine	15.750	169	458342	60.488	ng		97
67) 4-Bromophenyl-phenylether	16.426	248	174594	63.681	ng		96
68) Hexachlorobenzene	16.543	284	183700	59.848	ng		99
70) Pentachlorophenol	16.884	266	127516	66.910	ng		97
71) Phenanthrene	17.272	178	850190	59.544	ng		100
72) Anthracene	17.366	178	855662	60.267	ng		98
73) Carbazole	17.630	167	791764	59.729	ng		98
74) Di-n-butylphthalate	18.206	149	978831	62.731	ng		99
75) Fluoranthene	19.281	202	998035	57.980	ng		99
77) Benzidine	19.469	184	240411	63.973	ng		98
78) Pyrene	19.645	202	1035908	60.030	ng		99
80) Butylbenzylphthalate	20.544	149	403606	61.244	ng		97
81) Benzo(a)anthracene	21.449	228	1051558	61.323	ng		98
82) 3,3'-Dichlorobenzidine	21.367	252	349935	63.055	ng		99
83) Chrysene	21.514	228	1044616	61.078	ng		99
84) Bis(2-ethylhexyl)phtha...	21.384	149	633796	68.341	ng		98
85) Di-n-octyl phthalate	22.530	149	1075085	67.209	ng		100
87) Indeno(1,2,3-cd)pyrene	27.889	276	1198276	61.921	ng		99
88) Benzo(b)fluoranthene	23.535	252	1054170	60.290	ng		98
89) Benzo(k)fluoranthene	23.599	252	1070595	61.033	ng		100
90) Benzo(a)pyrene	24.346	252	947608	60.853	ng		98
91) Dibenzo(a,h)anthracene	27.953	278	974276	60.728	ng		98
92) Benzo(g,h,i)perylene	28.964	276	1002330	60.851	ng		96

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

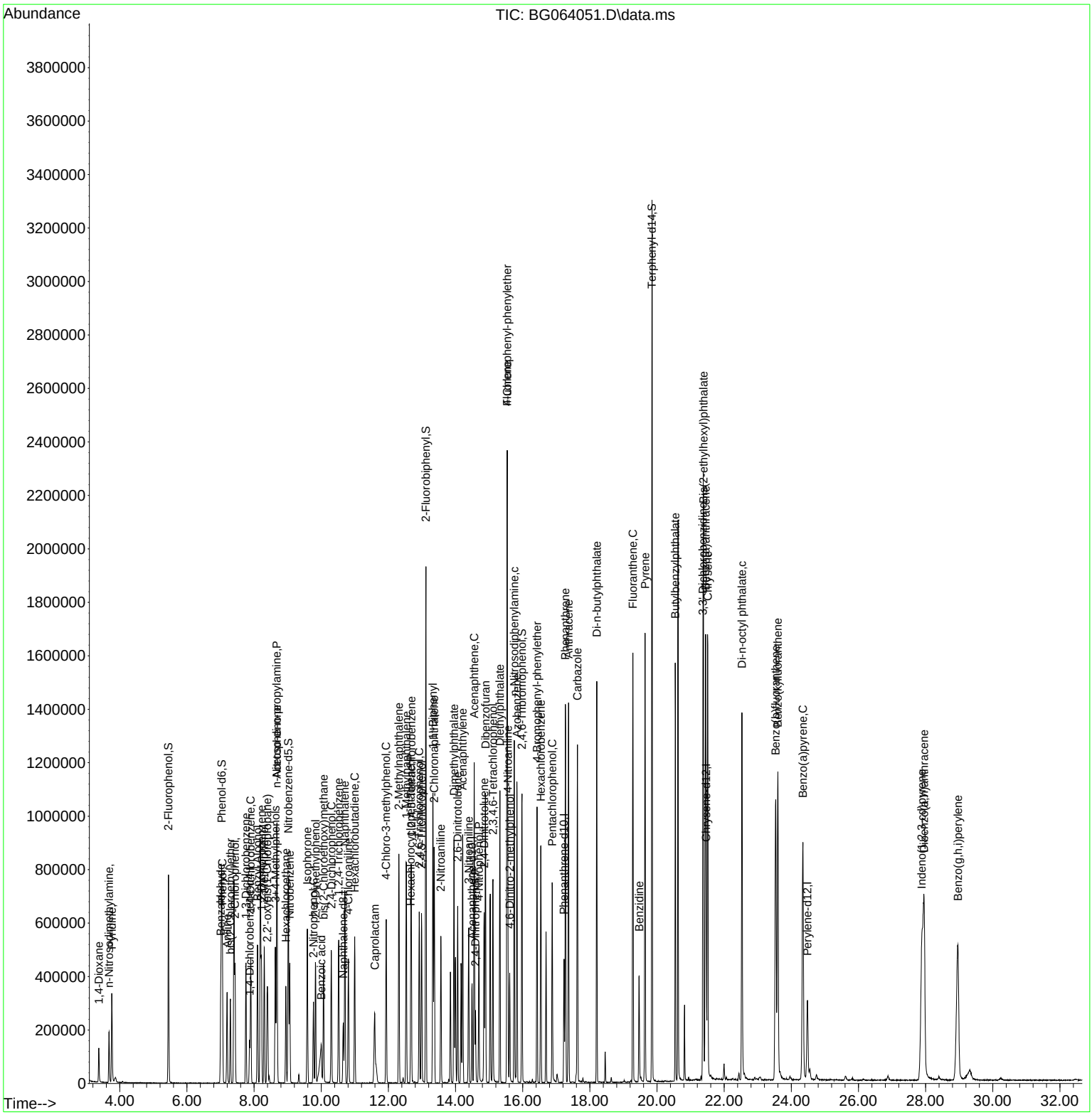
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064051.D
Acq On : 5 Mar 2025 13:04
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

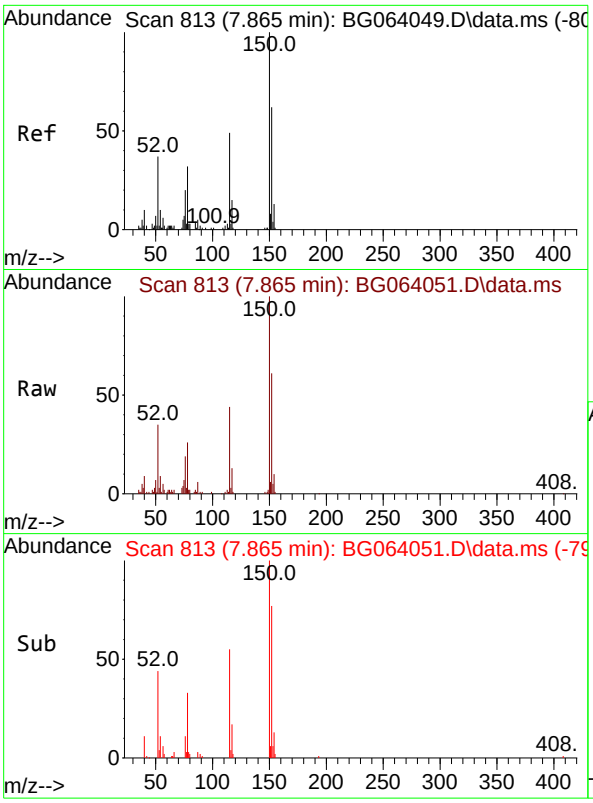
Quant Time: Mar 05 15:25:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

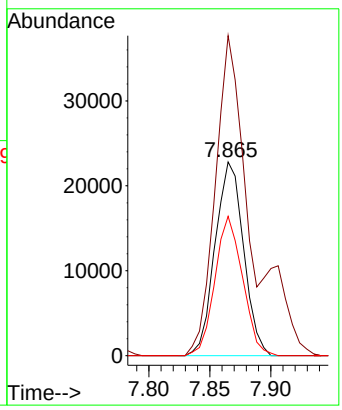




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. -0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:152 Resp: 3713

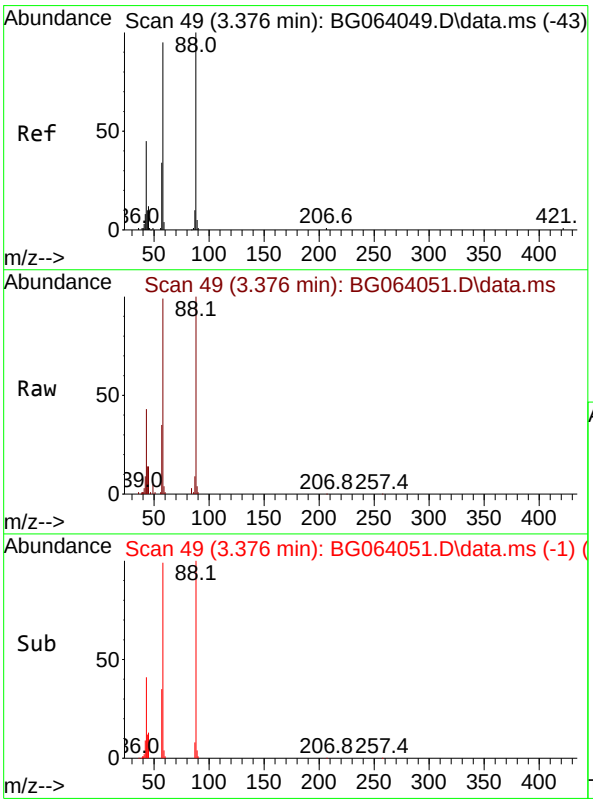
Ion	Ratio	Lower	Upper
152	100		
150	165.1	129.2	193.8
115	71.9	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

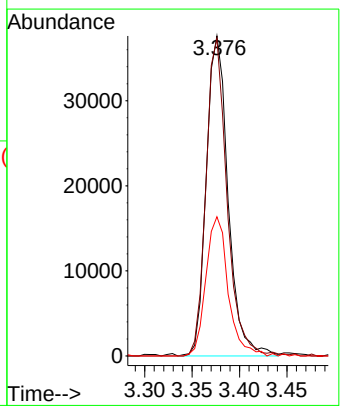
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

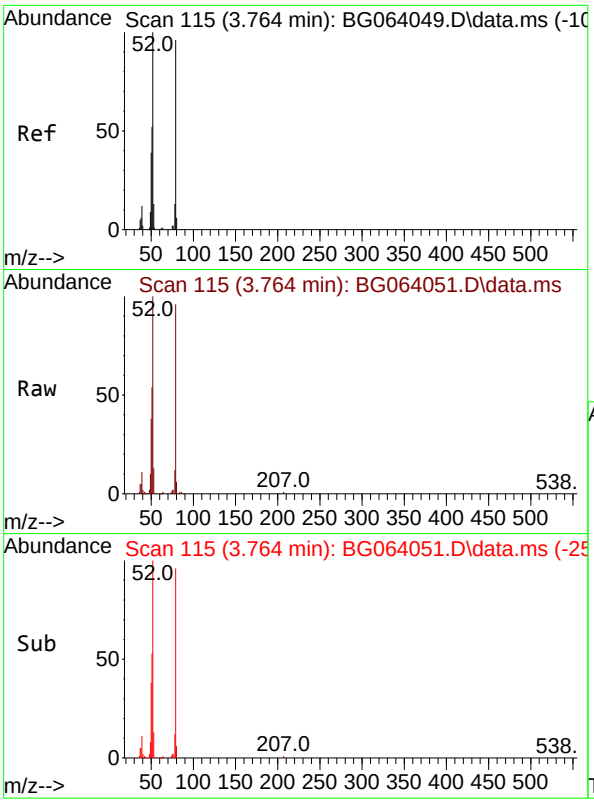


#2
1,4-Dioxane
Concen: 55.674 ng
RT: 3.376 min Scan# 49
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 88 Resp: 60005

Ion	Ratio	Lower	Upper
88	100		
58	96.3	74.6	111.8
43	44.5	35.5	53.3

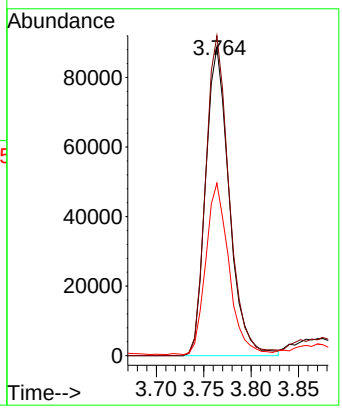




#3
Pyridine
Concen: 58.464 ng
RT: 3.764 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 79 Resp: 15324

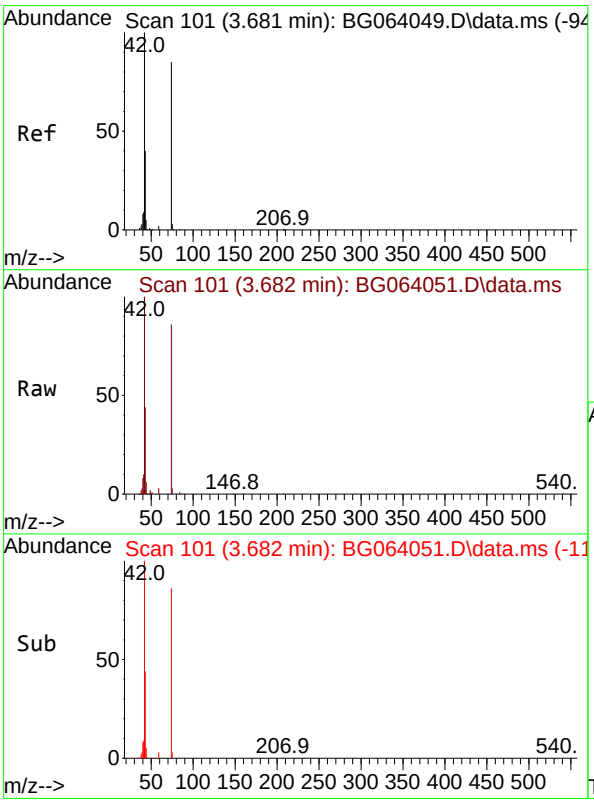
Ion	Ratio	Lower	Upper
79	100		
52	103.8	83.0	124.6
51	56.0	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

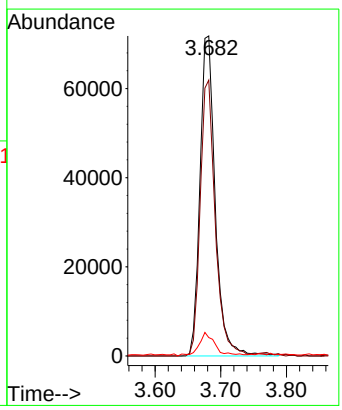
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

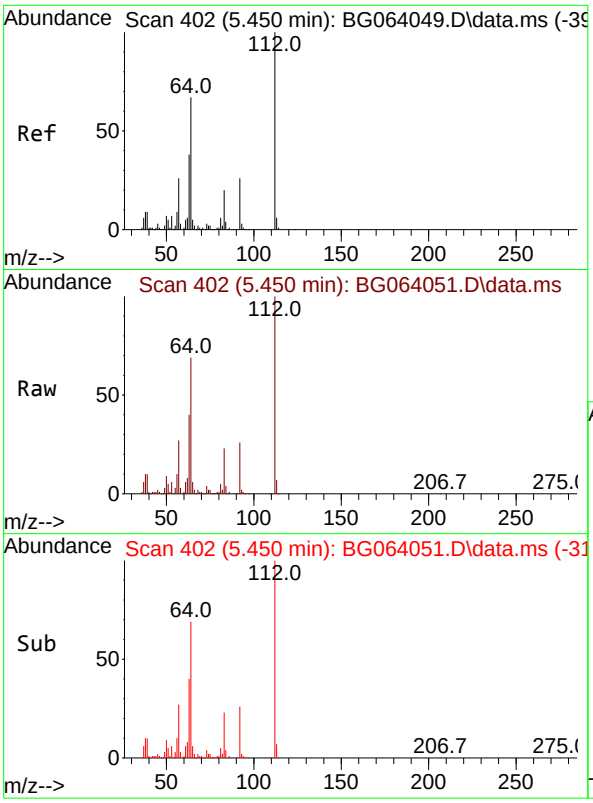


#4
n-Nitrosodimethylamine
Concen: 62.293 ng
RT: 3.682 min Scan# 101
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 42 Resp: 116662

Ion	Ratio	Lower	Upper
42	100		
74	86.2	68.0	102.0
44	5.7	4.9	7.3

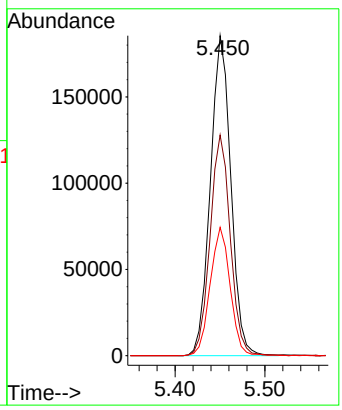




#5
2-Fluorophenol
Concen: 123.437 ng
RT: 5.450 min Scan# 4(
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:112 Resp: 29355

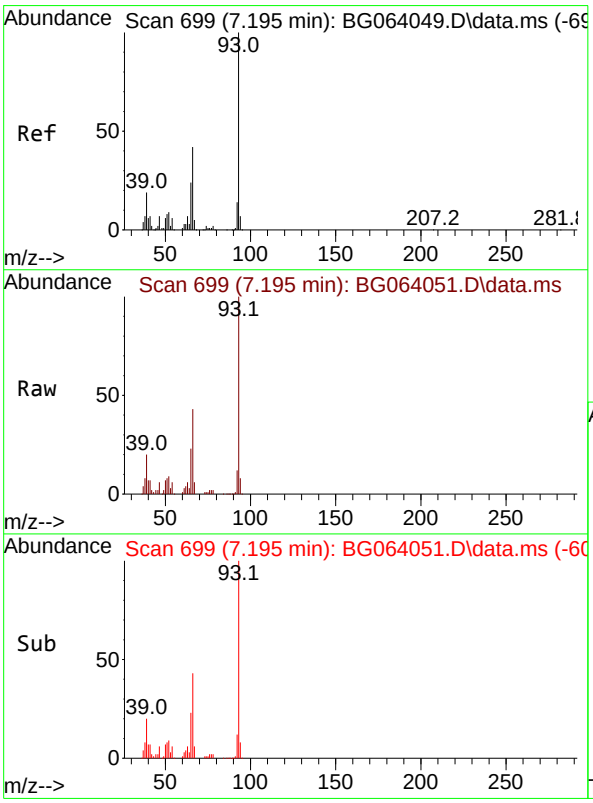
Ion	Ratio	Lower	Upper
112	100		
64	69.0	53.7	80.5
63	40.1	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

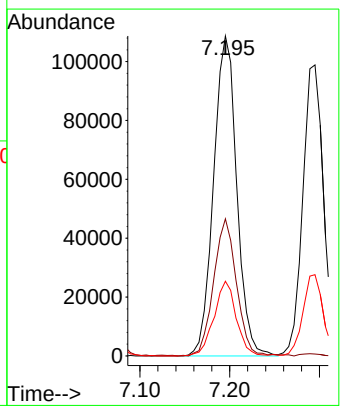
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

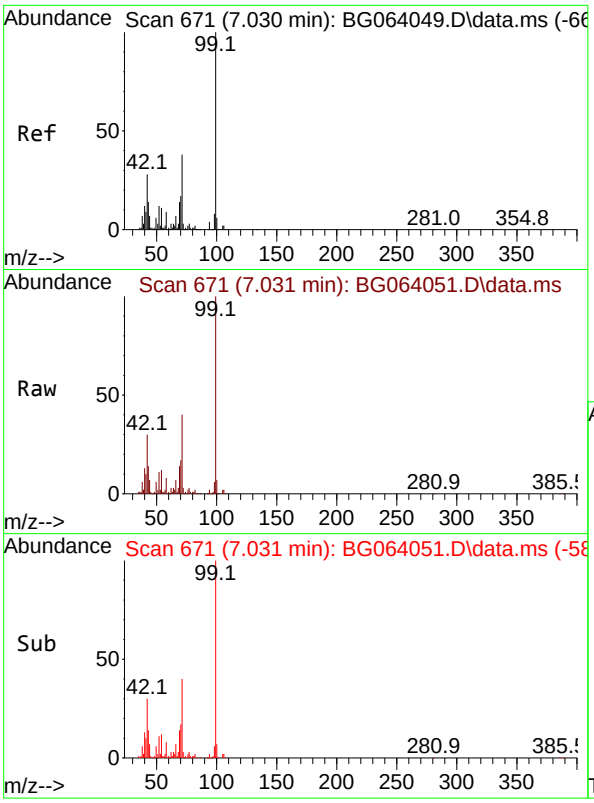


#6
Aniline
Concen: 61.338 ng
RT: 7.195 min Scan# 699
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 93 Resp: 194727

Ion	Ratio	Lower	Upper
93	100		
66	42.9	33.7	50.5
65	23.3	19.1	28.7

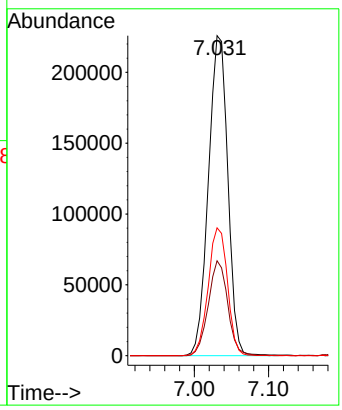




#7
Phenol-d6
Concen: 126.652 ng
RT: 7.031 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 99 Resp: 40975

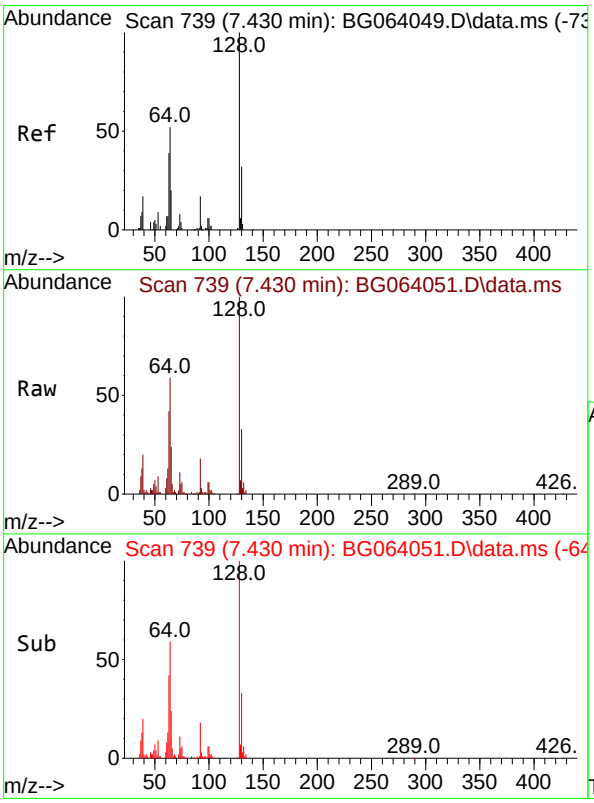
Ion	Ratio	Lower	Upper
99	100		
42	29.6	22.7	34.1
71	39.9	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

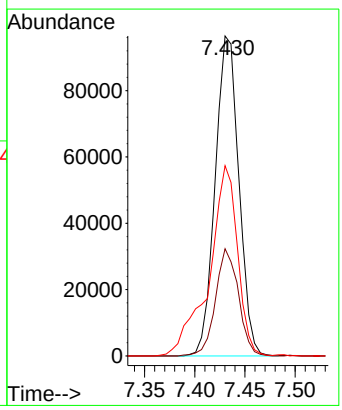
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

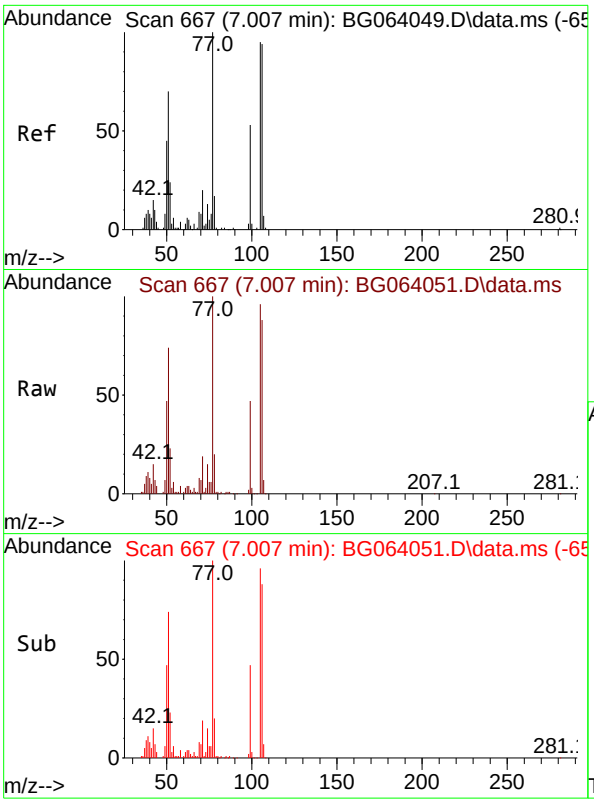


#8
2-Chlorophenol
Concen: 61.917 ng
RT: 7.430 min Scan# 739
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:128 Resp: 158149

Ion	Ratio	Lower	Upper
128	100		
130	33.5	12.3	52.3
64	59.4	37.0	77.0

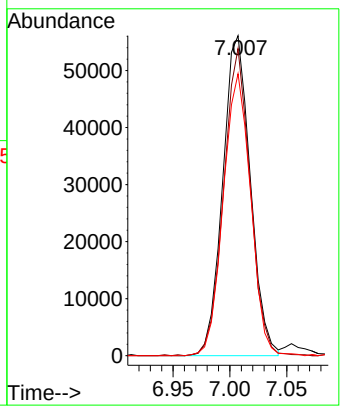




#9
Benzaldehyde
Concen: 50.099 ng
RT: 7.007 min Scan# 6
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 77 Resp: 9474

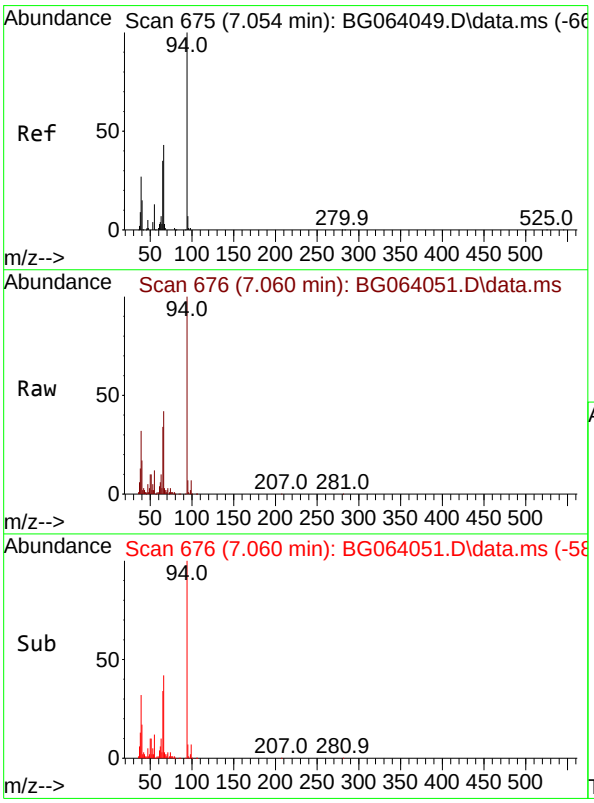
Ion	Ratio	Lower	Upper
77	100		
105	96.0	75.5	115.5
106	88.1	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

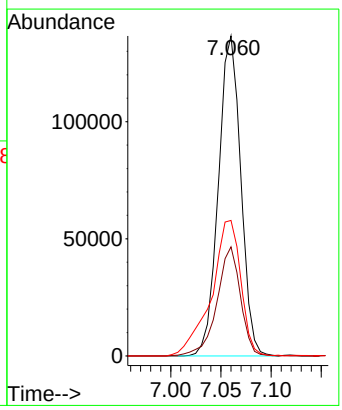
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

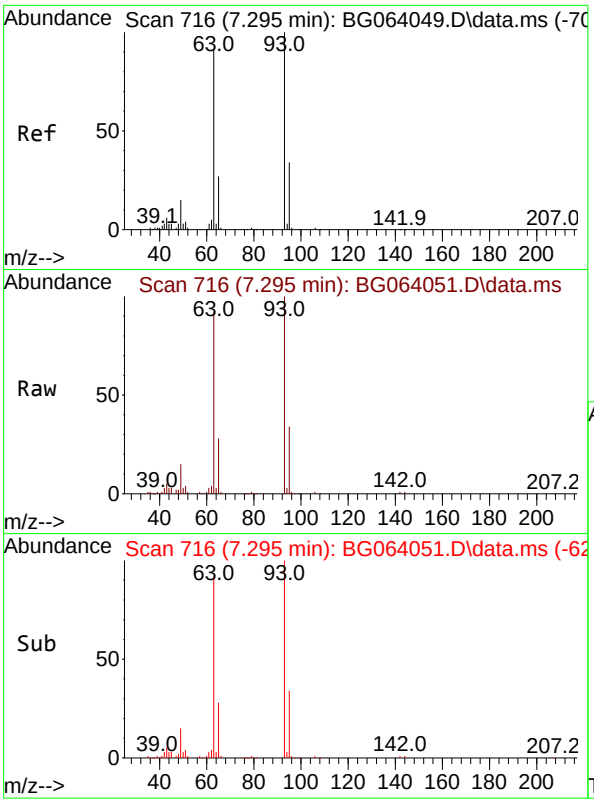


#10
Phenol
Concen: 63.911 ng
RT: 7.060 min Scan# 676
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 94 Resp: 211698

Ion	Ratio	Lower	Upper
94	100		
65	34.1	15.2	55.2
66	42.3	25.1	65.1

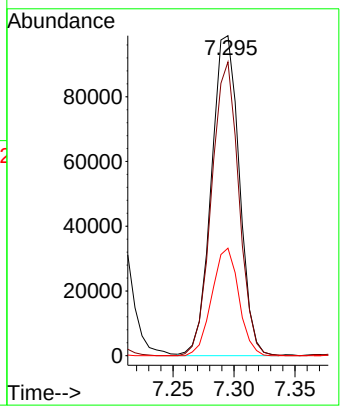




#11
bis(2-Chloroethyl)ether
Concen: 60.818 ng
RT: 7.295 min Scan# 7
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 93 Resp: 15793

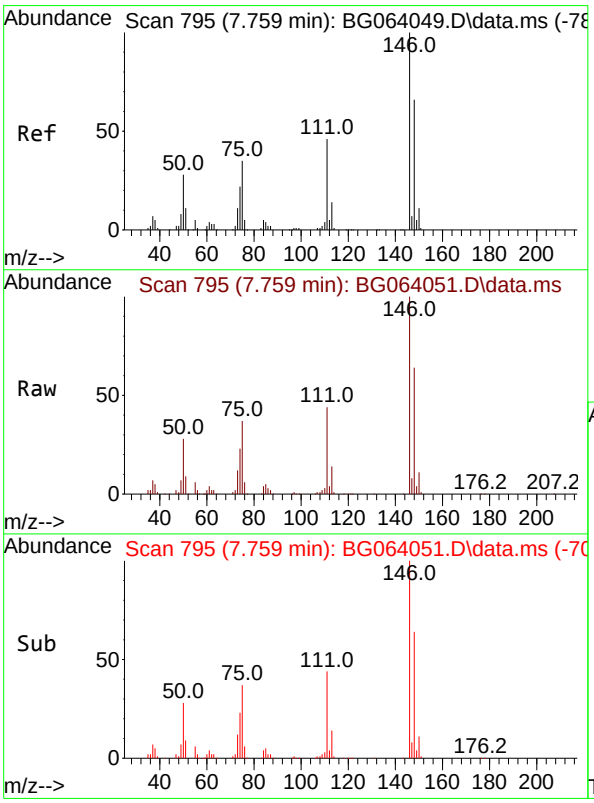
Ion	Ratio	Lower	Upper
93	100		
63	91.8	70.0	110.0
95	33.6	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

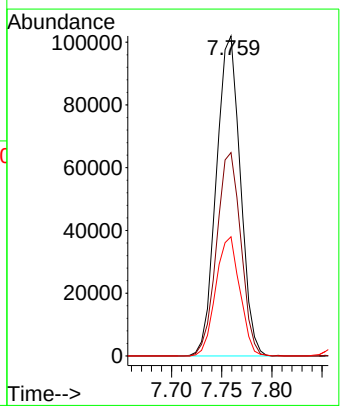
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

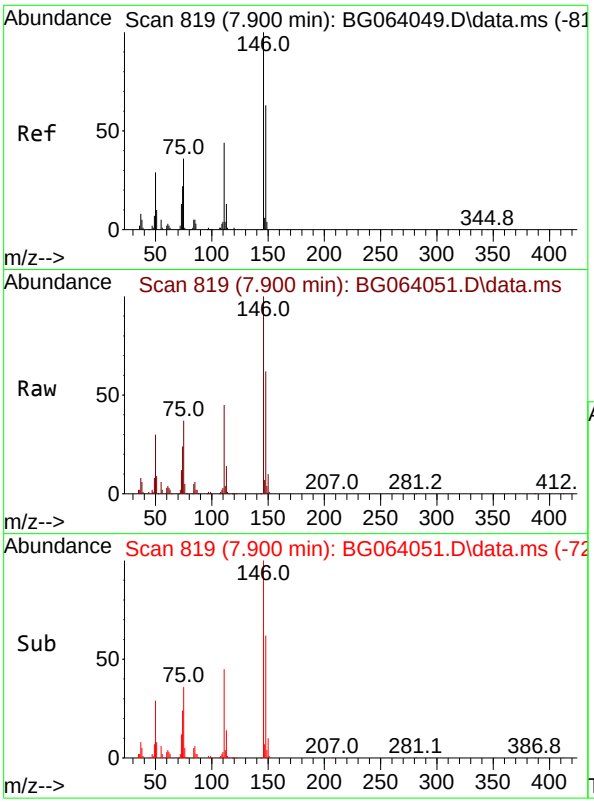


#12
1,3-Dichlorobenzene
Concen: 60.337 ng
RT: 7.759 min Scan# 795
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:146 Resp: 169236

Ion	Ratio	Lower	Upper
146	100		
148	63.6	52.6	78.8
75	37.2	28.1	42.1

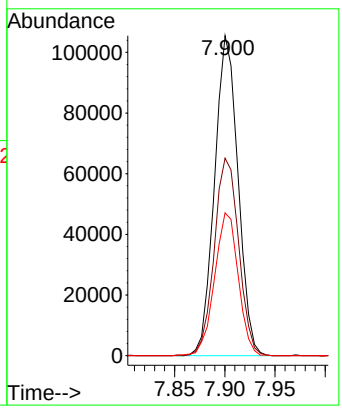




#13
1,4-Dichlorobenzene
Concen: 59.524 ng
RT: 7.900 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:146 Resp: 17112

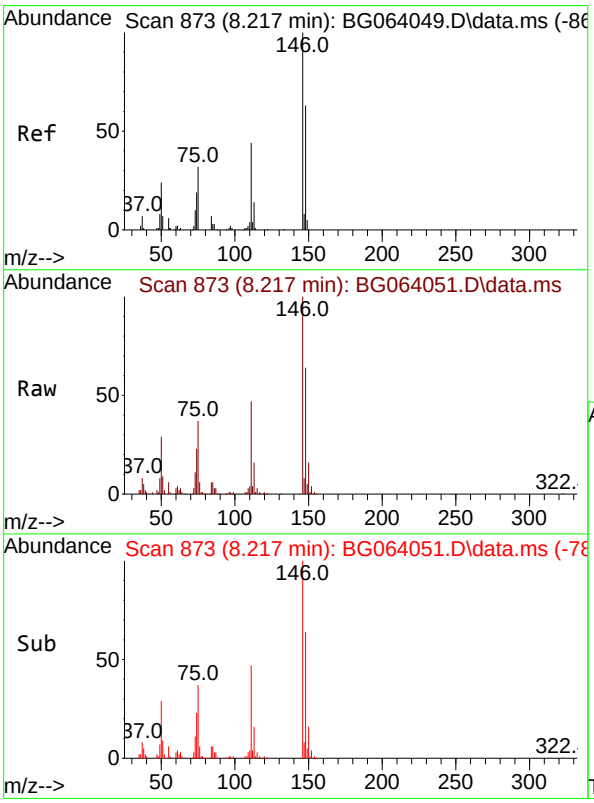
Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.6	75.8
111	44.7	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

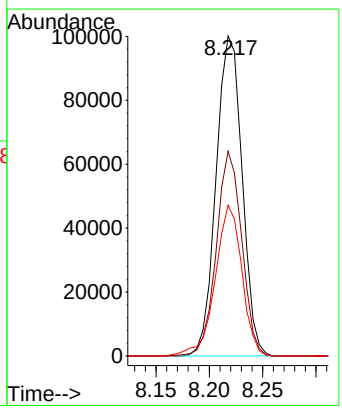
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

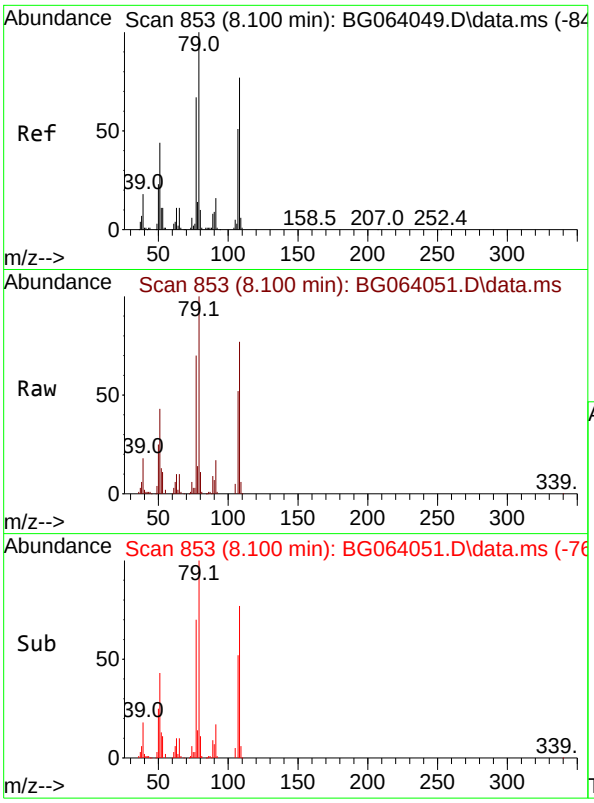


#14
1,2-Dichlorobenzene
Concen: 61.300 ng
RT: 8.217 min Scan# 873
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:146 Resp: 169937

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.2	75.2
111	47.1	36.4	54.6

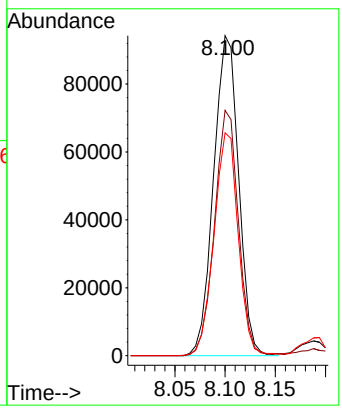




#15
Benzyl Alcohol
Concen: 65.368 ng
RT: 8.100 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 79 Resp: 16342

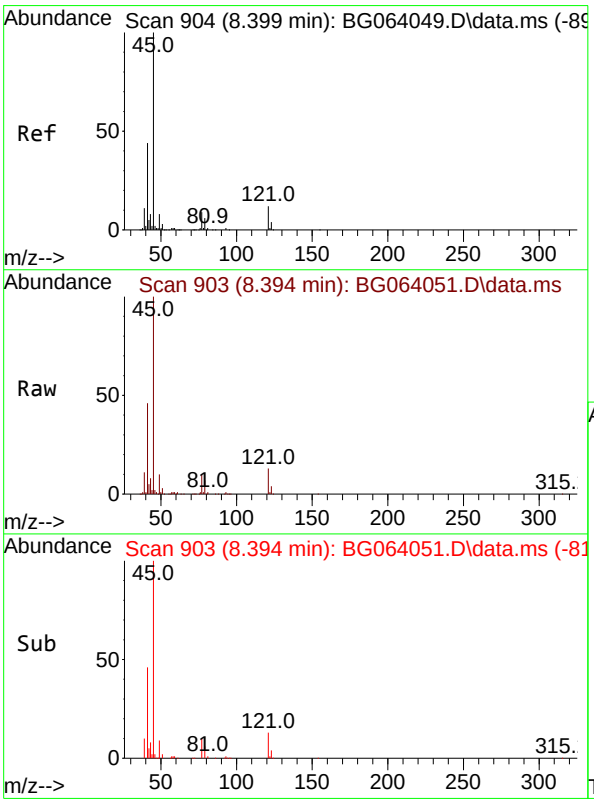
Ion	Ratio	Lower	Upper
79	100		
108	76.7	61.7	92.5
77	69.6	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

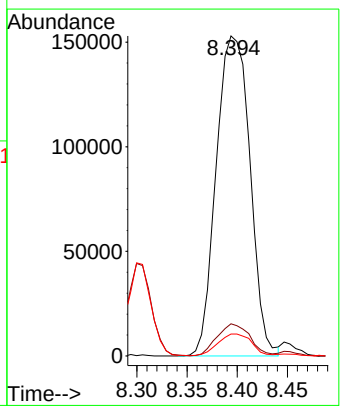
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

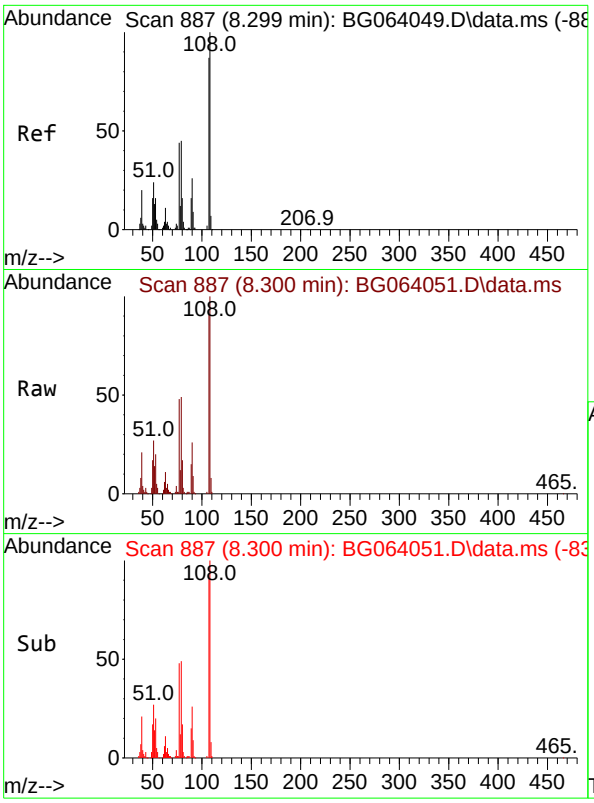


#16
2,2'-oxybis(1-Chloropropane)
Concen: 61.396 ng
RT: 8.394 min Scan# 903
Delta R.T. -0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 45 Resp: 358503

Ion	Ratio	Lower	Upper
45	100		
77	10.0	0.0	29.0
79	6.8	0.0	26.6

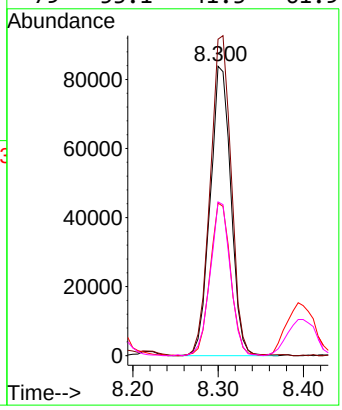




#17
2-Methylphenol
Concen: 64.317 ng
RT: 8.300 min Scan# 8
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:107 Resp: 14139

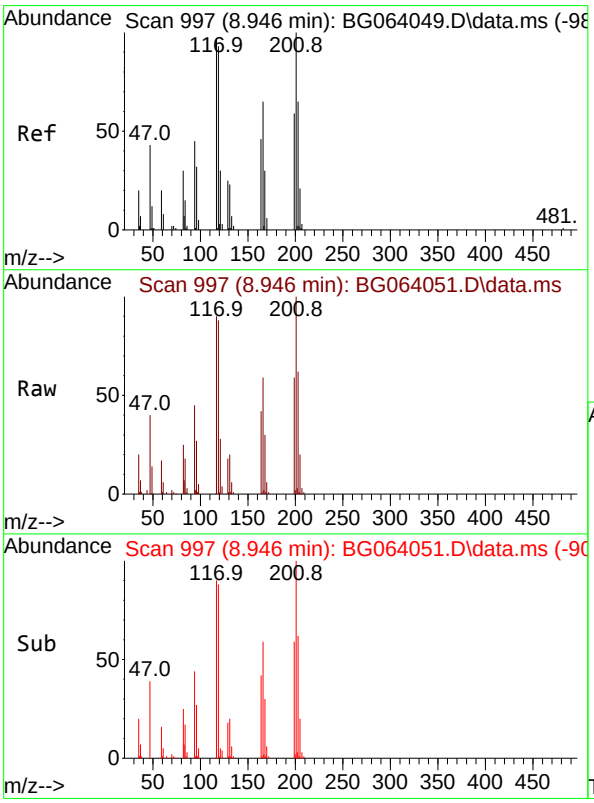
Ion	Ratio	Lower	Upper
107	100		
108	109.3	92.5	138.7
77	52.7	40.5	60.7
79	53.1	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

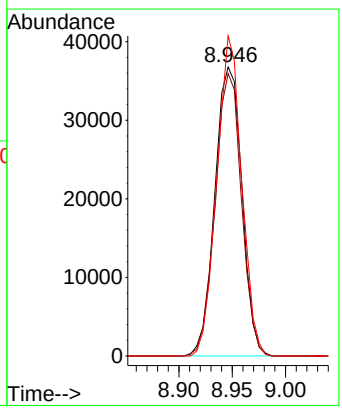
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

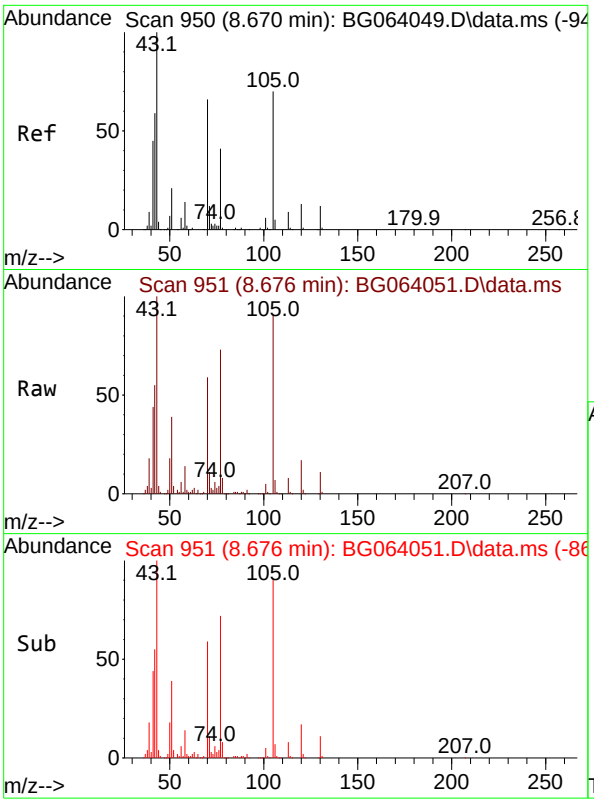


#18
Hexachloroethane
Concen: 64.389 ng
RT: 8.946 min Scan# 997
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:117 Resp: 64767

Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.2	114.2
201	110.7	81.5	122.3

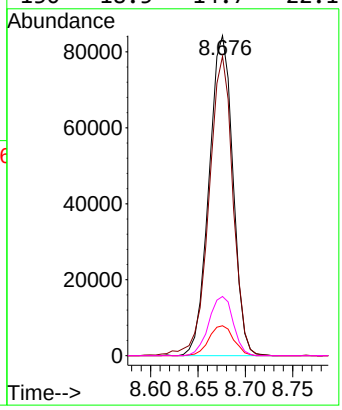




#19
n-Nitroso-di-n-propylamine
Concen: 64.871 ng
RT: 8.676 min Scan# 9
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 70 Resp: 14729

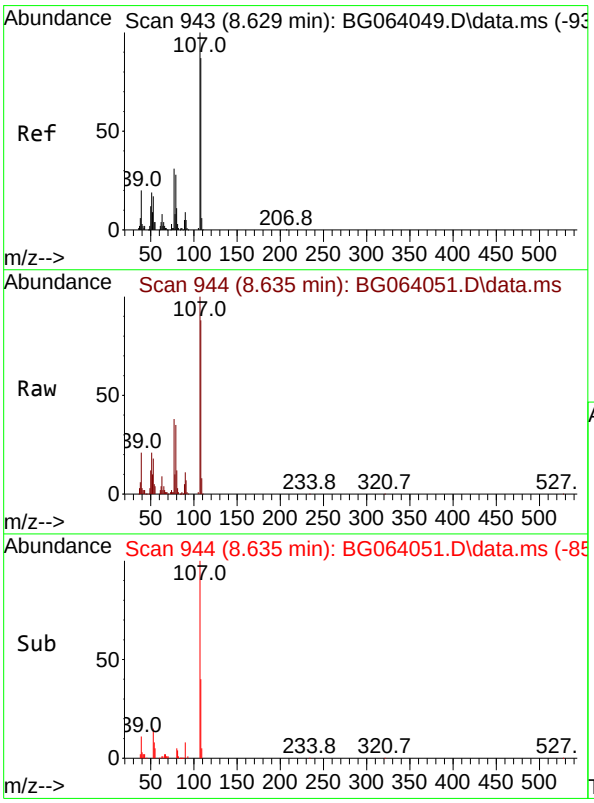
Ion	Ratio	Lower	Upper
70	100		
42	93.5	72.1	108.1
101	9.4	7.2	10.8
130	18.5	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

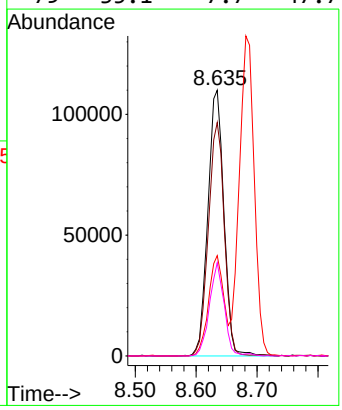
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

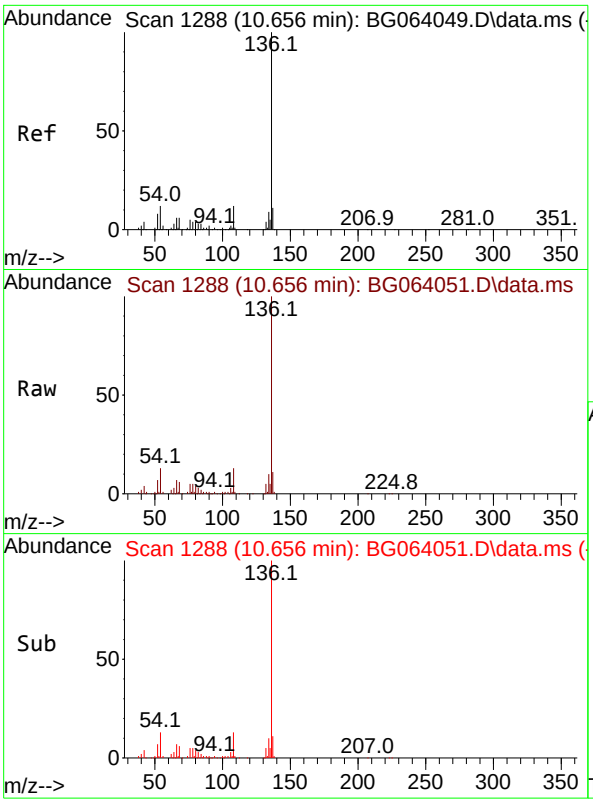


#20
3+4-Methylphenols
Concen: 66.409 ng
RT: 8.635 min Scan# 944
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:107 Resp: 200990

Ion	Ratio	Lower	Upper
107	100		
108	87.8	67.0	107.0
77	37.8	11.2	51.2
79	35.1	7.7	47.7

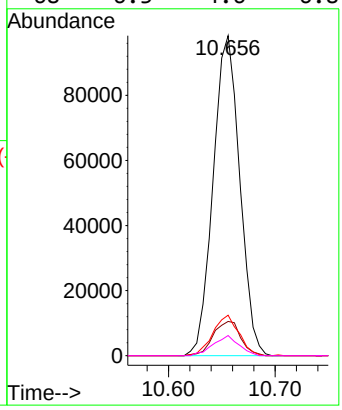




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.656 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:136 Resp: 17013

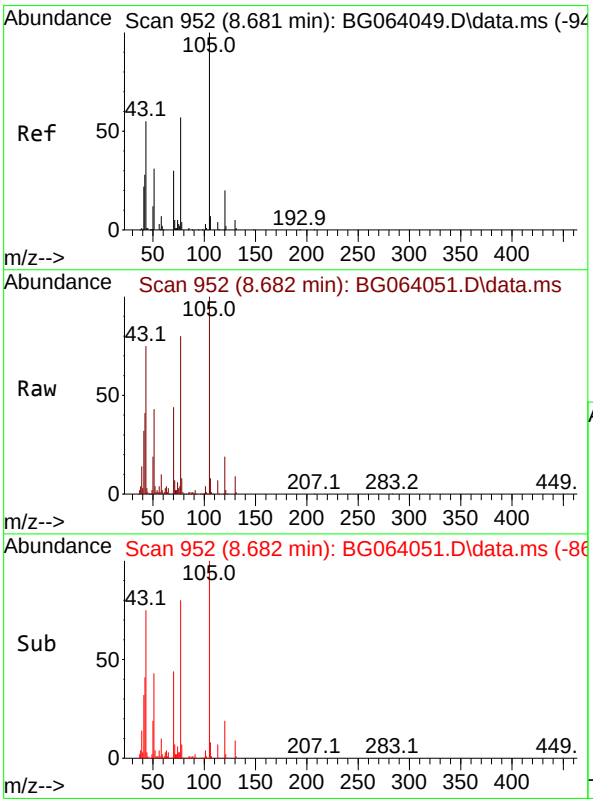
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	12.6	9.9	14.9
68	6.3	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

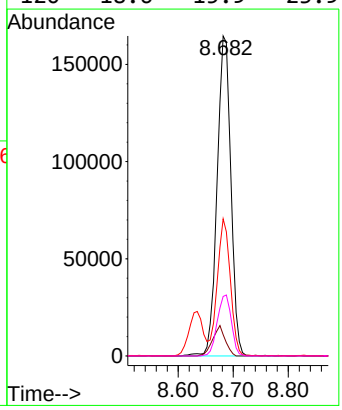
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

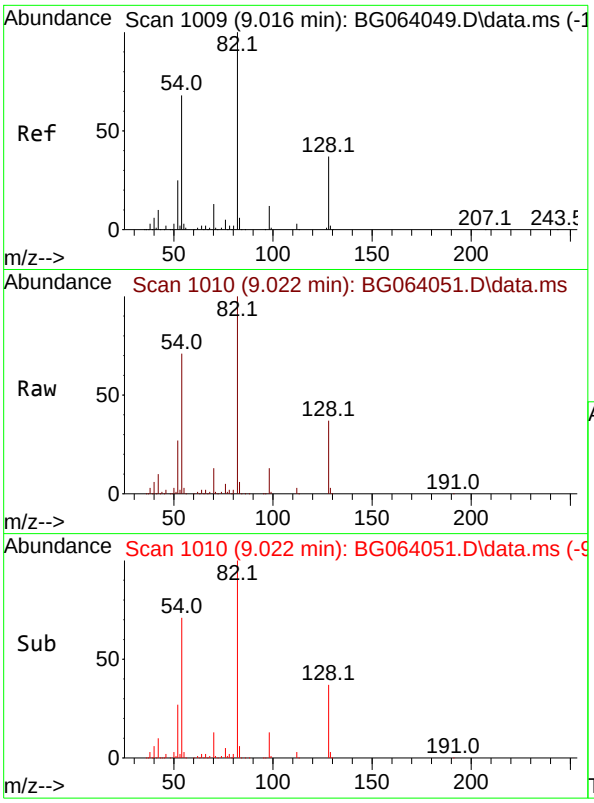


#22
Acetophenone
Concen: 61.365 ng
RT: 8.682 min Scan# 952
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:105 Resp: 286250

Ion	Ratio	Lower	Upper
105	100		
71	6.7	4.2	6.4#
51	42.8	33.3	49.9
120	18.6	15.9	23.9

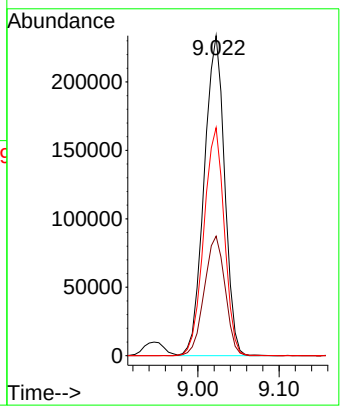




#23
Nitrobenzene-d5
Concen: 132.600 ng
RT: 9.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 82 Resp: 40823

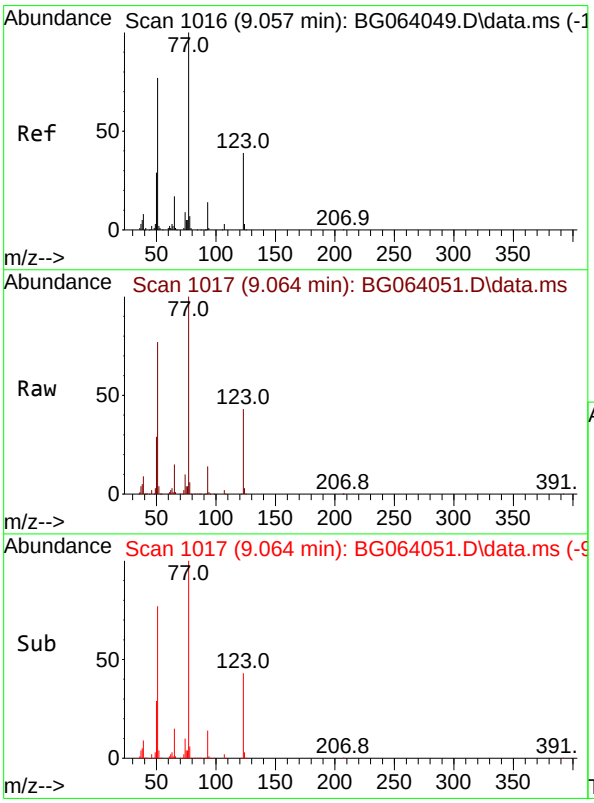
Ion	Ratio	Lower	Upper
82	100		
128	37.4	30.0	45.0
54	71.2	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

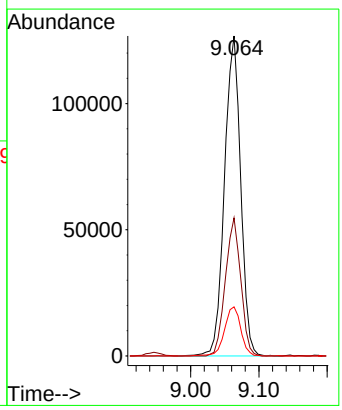
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

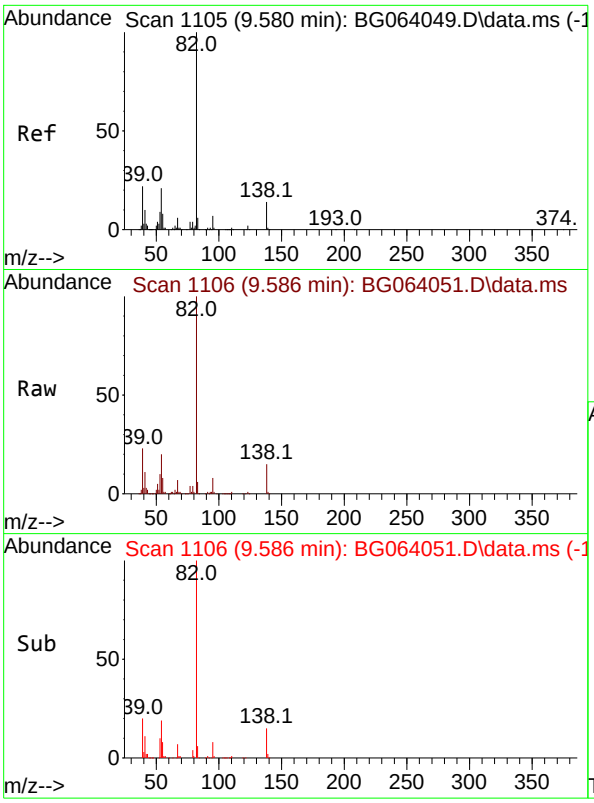


#24
Nitrobenzene
Concen: 65.613 ng
RT: 9.064 min Scan# 1017
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 77 Resp: 208758

Ion	Ratio	Lower	Upper
77	100		
123	43.2	31.4	47.2
65	15.4	13.4	20.0

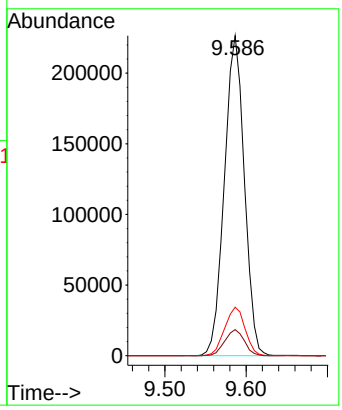




#25
Isophorone
Concen: 62.743 ng
RT: 9.586 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 82 Resp: 38662

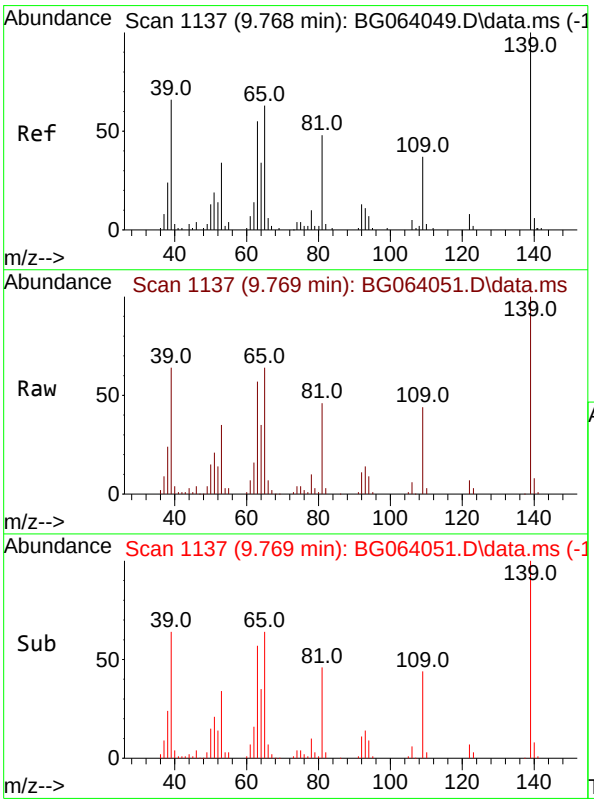
Ion	Ratio	Lower	Upper
82	100		
95	8.2	5.8	8.8
138	15.2	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

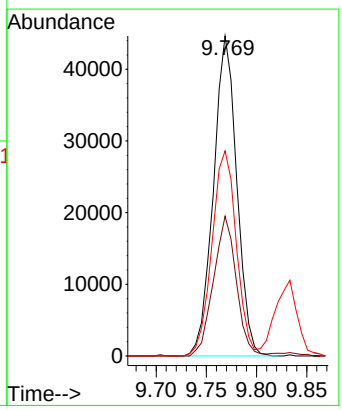
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

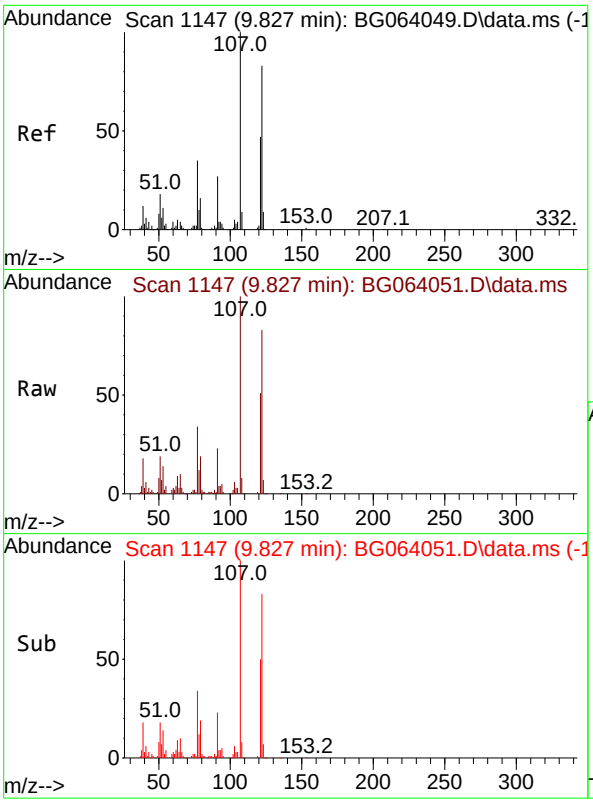


#26
2-Nitrophenol
Concen: 61.605 ng
RT: 9.769 min Scan# 1137
Delta R.T. 0.001 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:139 Resp: 72153

Ion	Ratio	Lower	Upper
139	100		
109	43.6	29.9	44.9
65	64.1	50.6	76.0

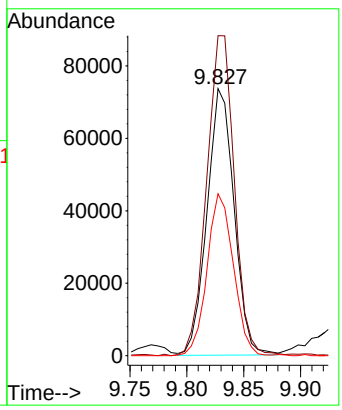




#27
2,4-Dimethylphenol
Concen: 66.054 ng
RT: 9.827 min Scan# 11
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:122 Resp: 12202

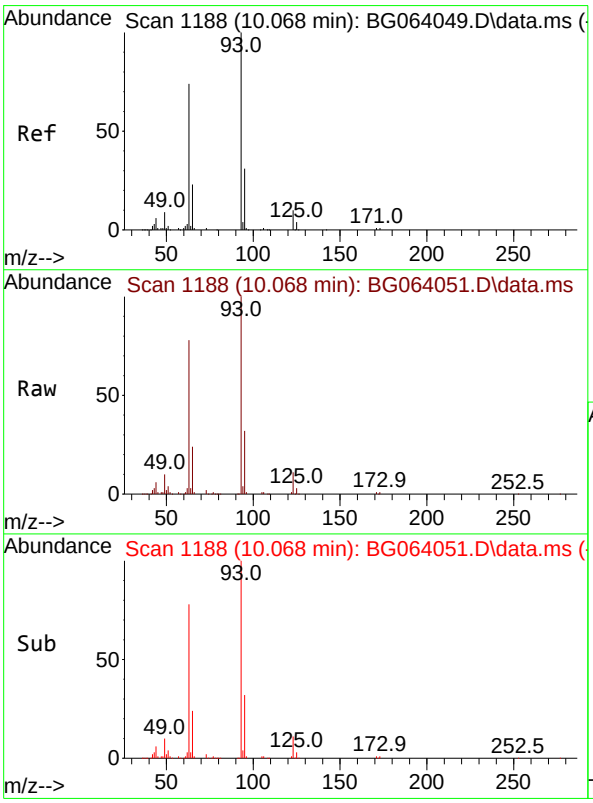
Ion	Ratio	Lower	Upper
122	100		
107	119.8	95.4	143.0
121	60.6	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

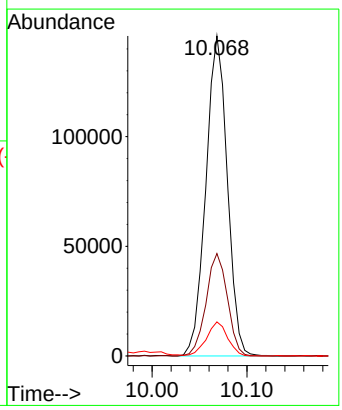
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

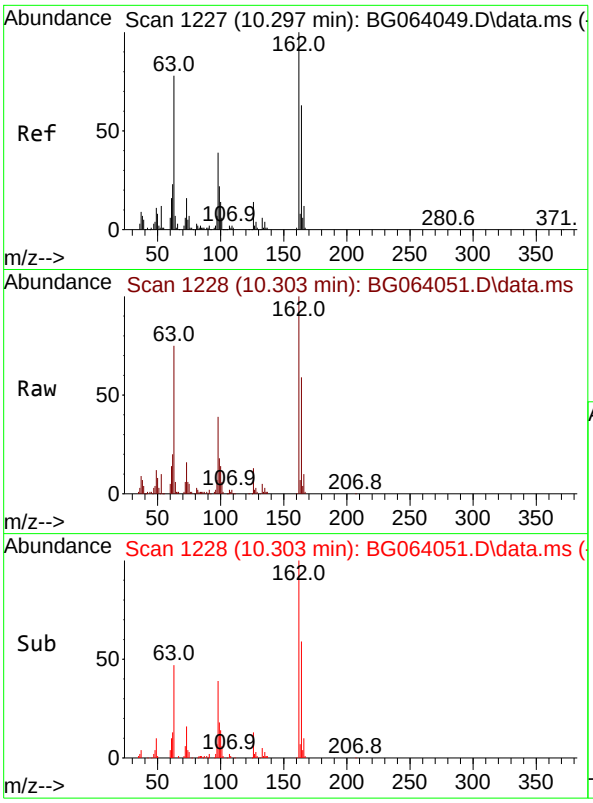


#28
bis(2-Chloroethoxy)methane
Concen: 61.387 ng
RT: 10.068 min Scan# 1188
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 93 Resp: 229336

Ion	Ratio	Lower	Upper
93	100		
95	32.0	25.0	37.4
123	10.6	7.6	11.4

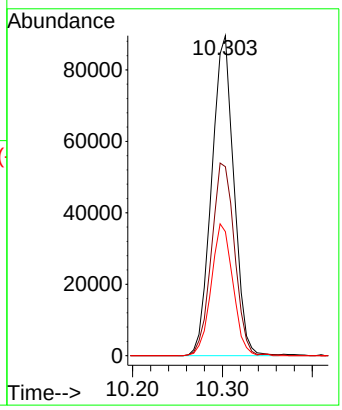




#29
2,4-Dichlorophenol
Concen: 65.920 ng
RT: 10.303 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:162 Resp: 15376

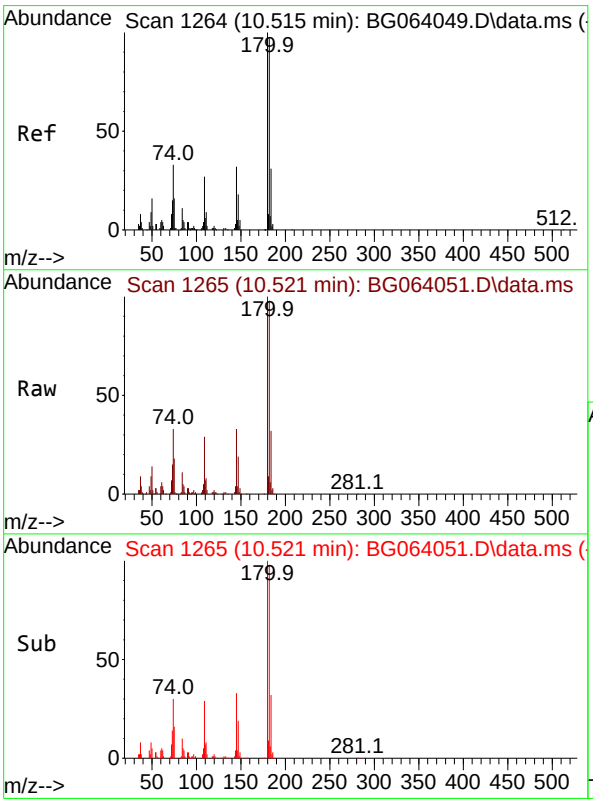
Ion	Ratio	Lower	Upper
162	100		
164	59.0	42.8	82.8
98	38.7	19.1	59.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

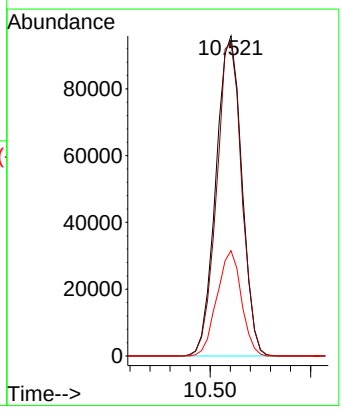
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

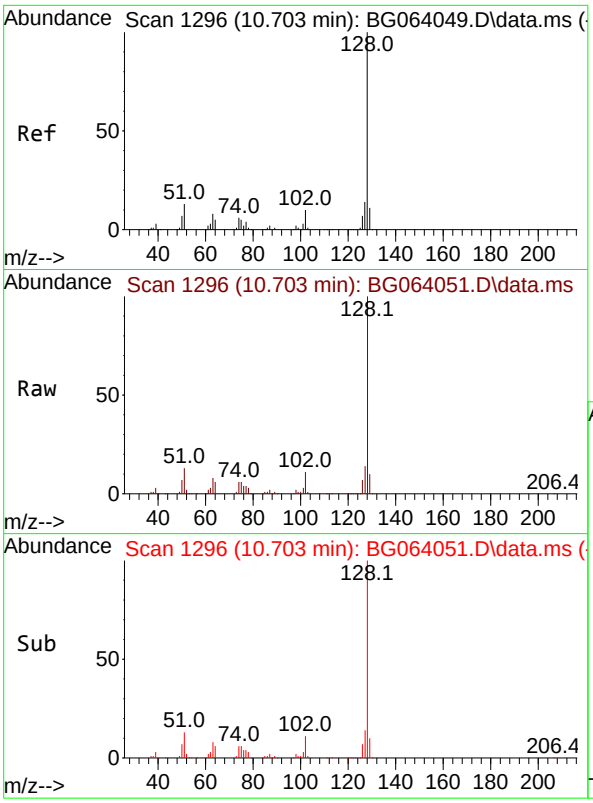


#30
1,2,4-Trichlorobenzene
Concen: 60.677 ng
RT: 10.521 min Scan# 1265
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:180 Resp: 170860

Ion	Ratio	Lower	Upper
180	100		
182	98.1	77.3	115.9
145	32.9	25.2	37.8

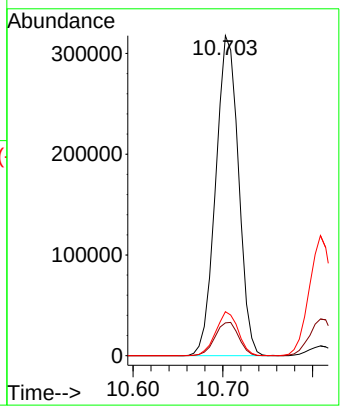




#31
Naphthalene
Concen: 61.037 ng
RT: 10.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:128 Resp: 55995

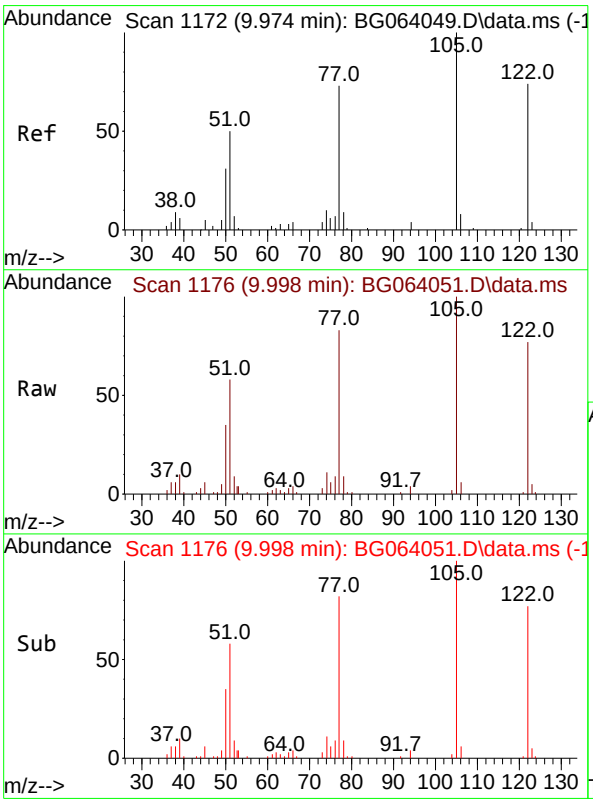
Ion	Ratio	Lower	Upper
128	100		
129	10.2	8.4	12.6
127	13.7	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

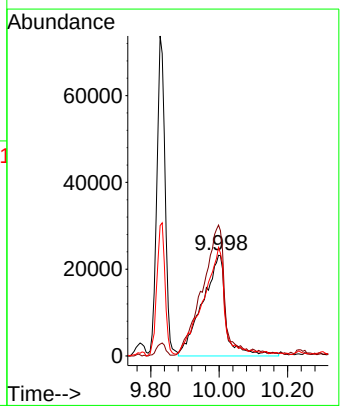
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

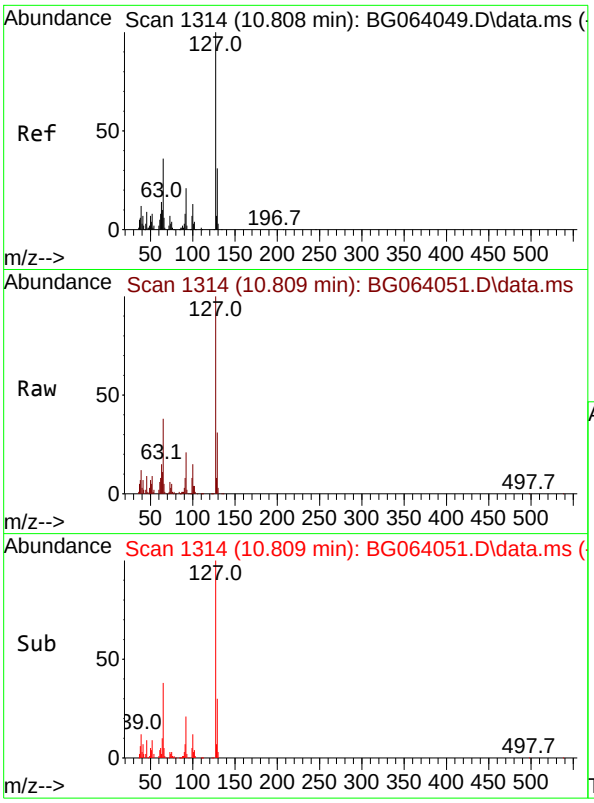


#32
Benzoic acid
Concen: 62.274 ng m
RT: 9.998 min Scan# 1176
Delta R.T. 0.024 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:122 Resp: 110878

Ion	Ratio	Lower	Upper
122	100		
105	130.0	115.0	155.0
77	107.8	80.9	120.9

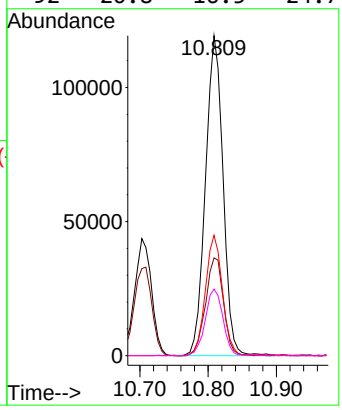




#33
4-Chloroaniline
Concen: 63.850 ng
RT: 10.809 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:127 Resp: 21409

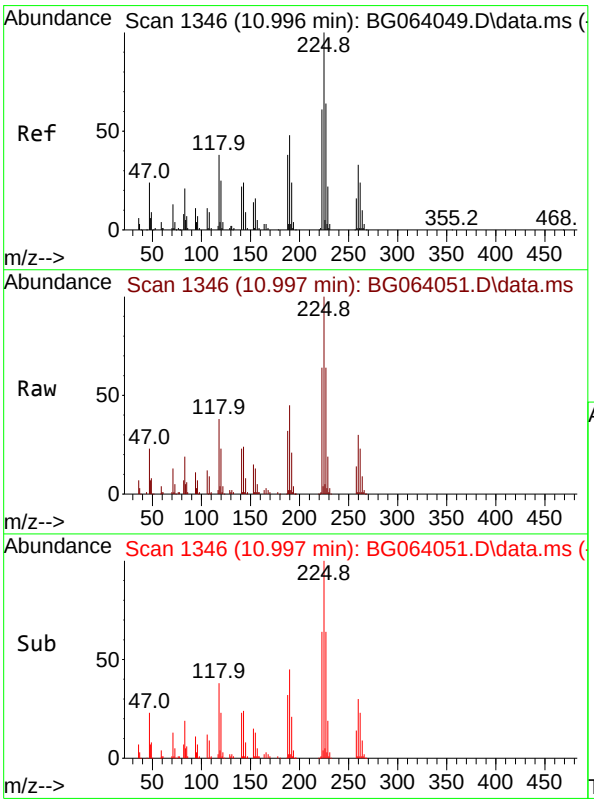
Ion	Ratio	Lower	Upper
127	100		
129	30.5	25.0	37.4
65	37.6	28.5	42.7
92	20.8	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

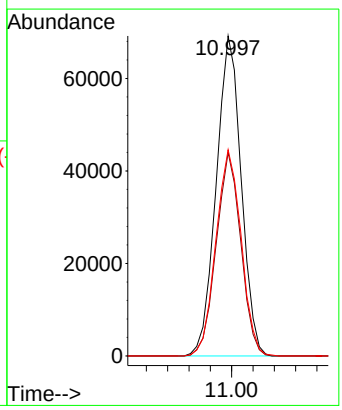
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

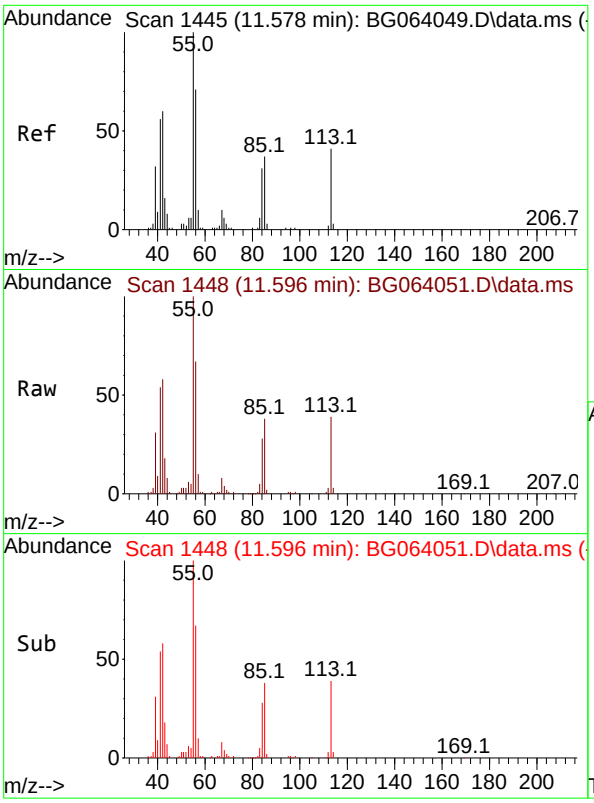


#34
Hexachlorobutadiene
Concen: 60.903 ng
RT: 10.997 min Scan# 1346
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:225 Resp: 112408

Ion	Ratio	Lower	Upper
225	100		
223	63.6	48.5	72.7
227	64.5	51.0	76.6





#35
Caprolactam
Concen: 64.020 ng
RT: 11.596 min Scan# 14
Delta R.T. 0.018 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

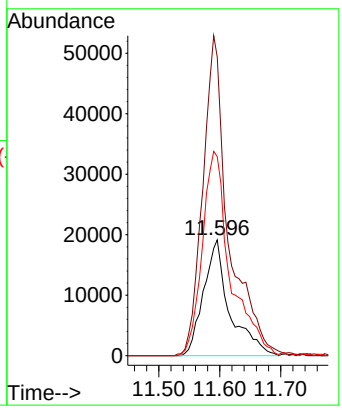
Tgt Ion:113 Resp: 5722

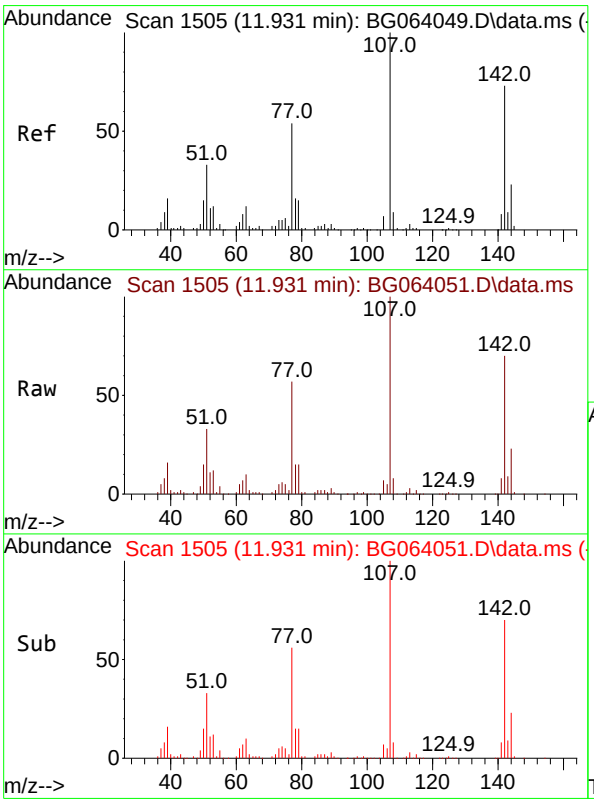
Ion	Ratio	Lower	Upper
113	100		
55	257.6	225.2	265.2
56	171.7	153.4	193.4

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

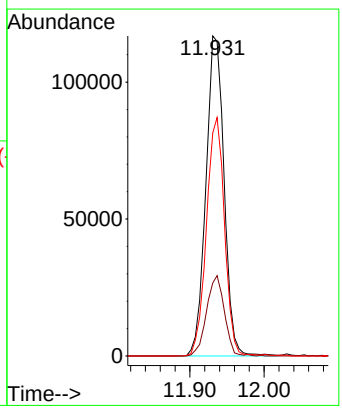


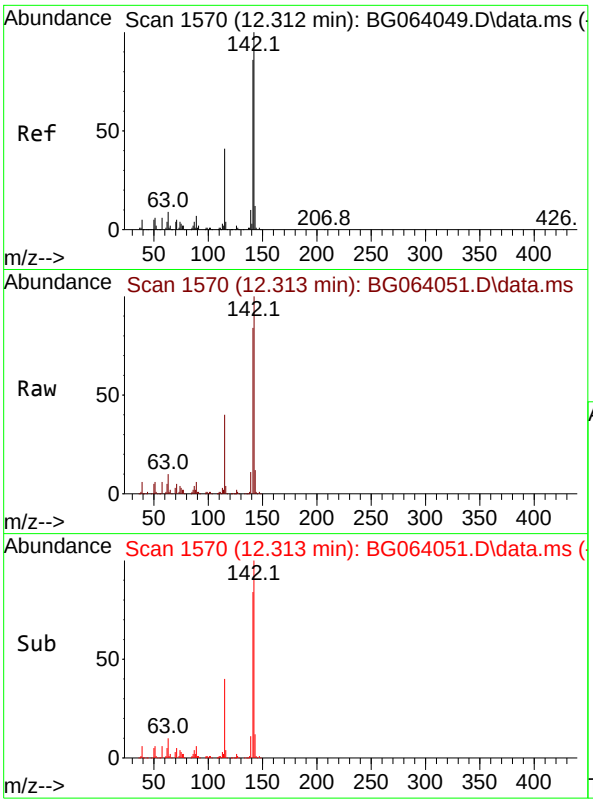


#36
4-Chloro-3-methylphenol
Concen: 65.149 ng
RT: 11.931 min Scan# 1505
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:107 Resp: 199201

Ion	Ratio	Lower	Upper
107	100		
144	22.8	18.6	28.0
142	69.7	58.0	87.0

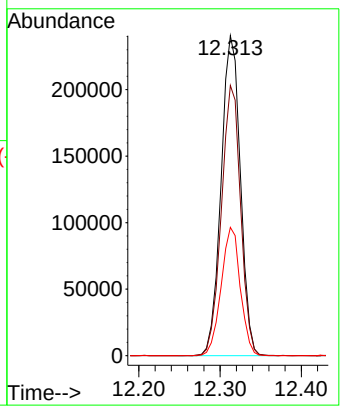




#37
2-Methylnaphthalene
Concen: 61.379 ng
RT: 12.313 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:142 Resp: 39752

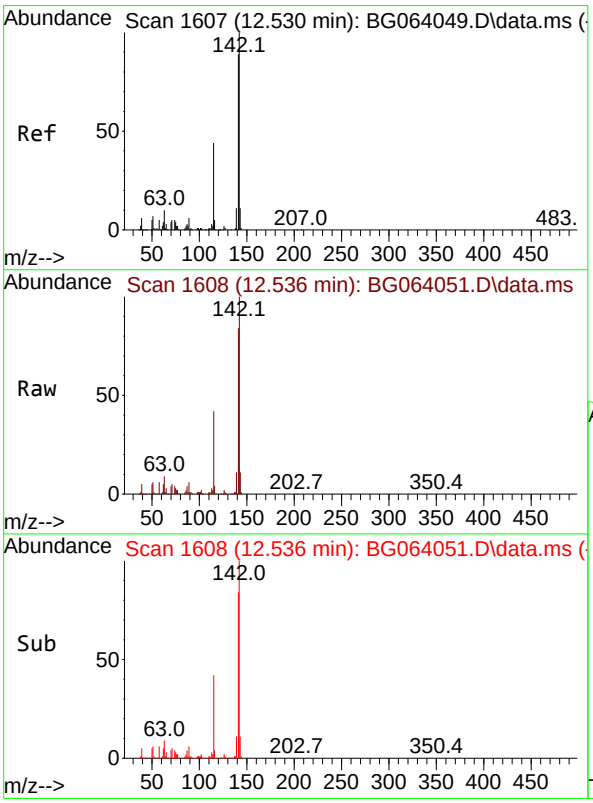
Ion	Ratio	Lower	Upper
142	100		
141	84.5	68.6	103.0
115	40.1	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

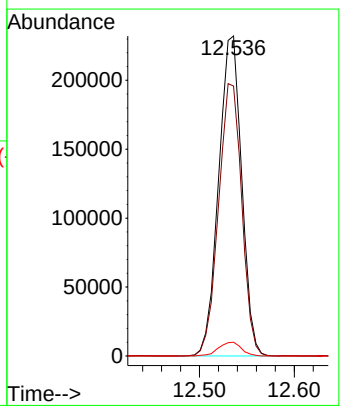
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

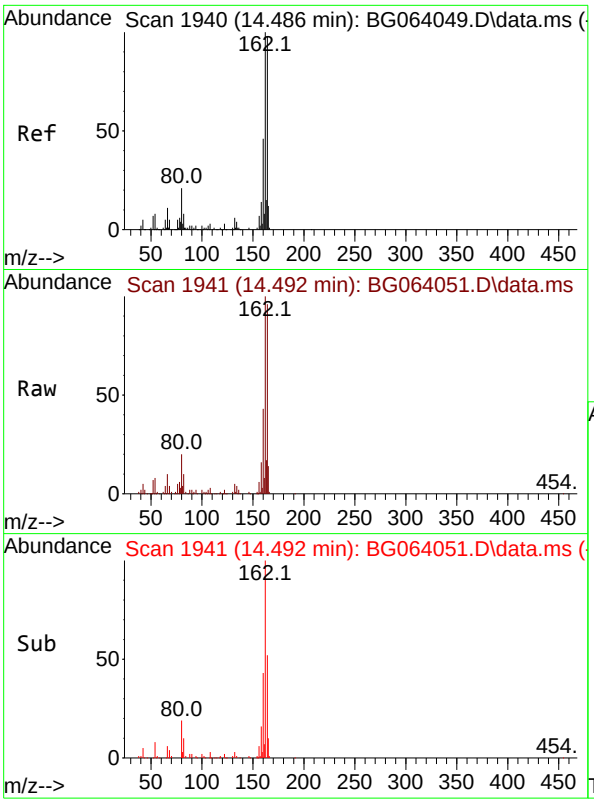


#38
1-Methylnaphthalene
Concen: 61.745 ng
RT: 12.536 min Scan# 1608
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:142 Resp: 391774

Ion	Ratio	Lower	Upper
142	100		
141	84.3	71.2	106.8
116	4.3	3.6	5.4

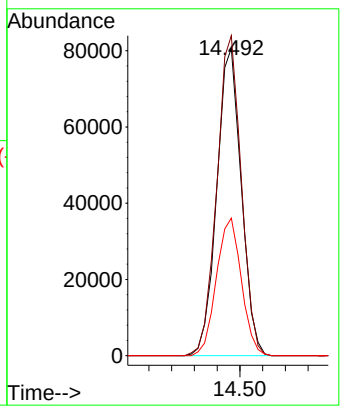




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:164 Resp: 12050

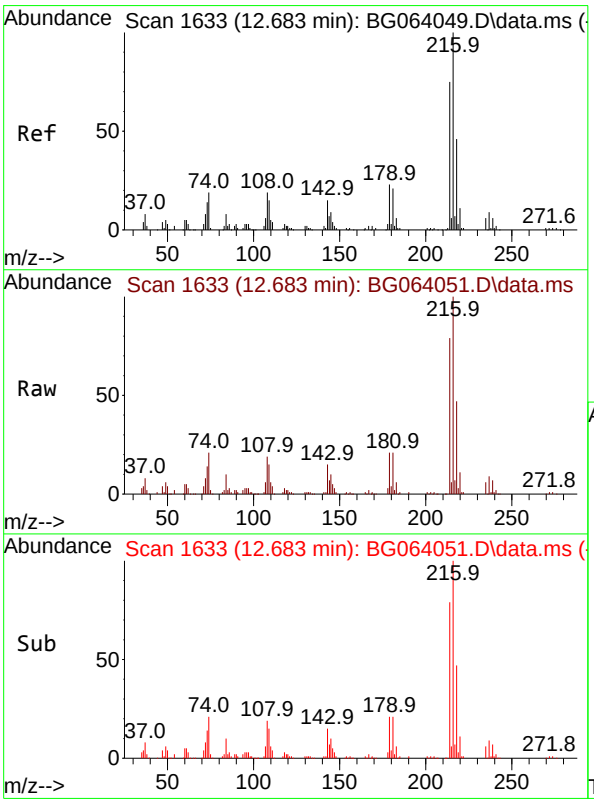
Ion	Ratio	Lower	Upper
164	100		
162	104.0	81.4	122.0
160	44.7	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

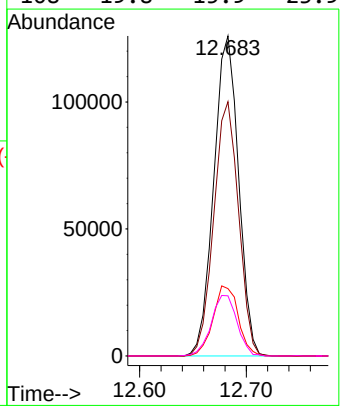
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

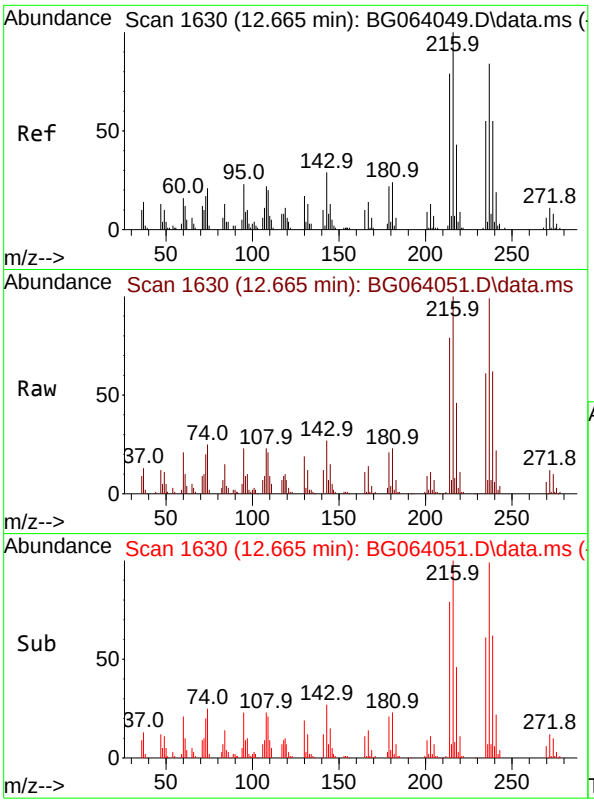


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.063 ng
RT: 12.683 min Scan# 1633
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:216 Resp: 203188

Ion	Ratio	Lower	Upper
216	100		
214	79.3	61.7	92.5
179	22.3	17.9	26.9
108	19.8	15.9	23.9

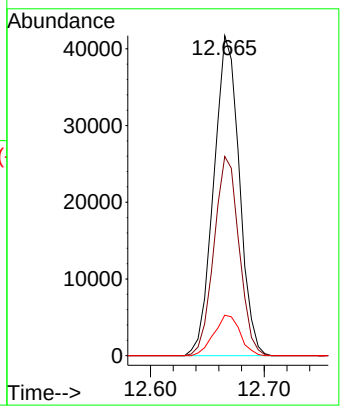




#41
Hexachlorocyclopentadiene
Concen: 67.203 ng
RT: 12.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:237 Resp: 6507

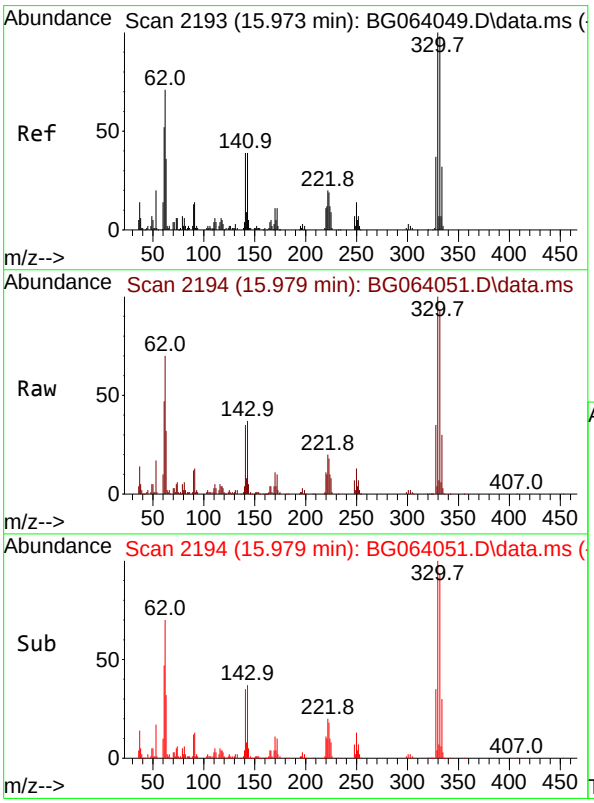
Ion	Ratio	Lower	Upper
237	100		
235	62.2	46.0	86.0
272	12.7	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

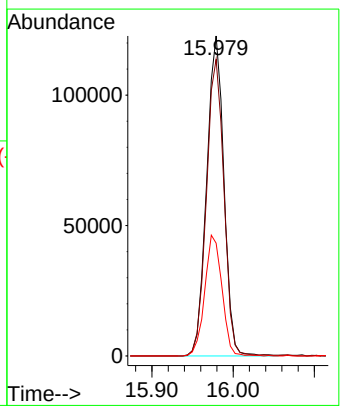
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

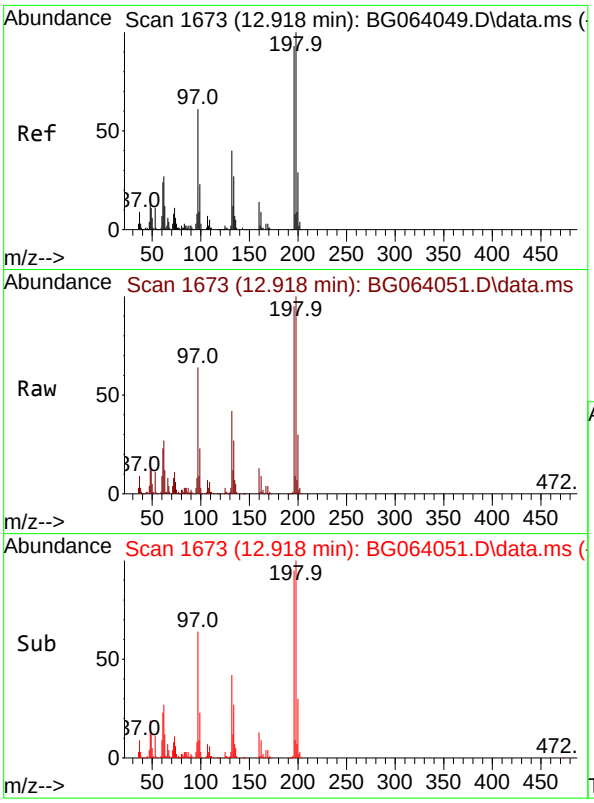


#42
2,4,6-Tribromophenol
Concen: 134.808 ng
RT: 15.979 min Scan# 2194
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:330 Resp: 180569

Ion	Ratio	Lower	Upper
330	100		
332	93.7	76.7	115.1
141	37.7	29.7	44.5





#43
2,4,6-Trichlorophenol
Concen: 65.693 ng
RT: 12.918 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

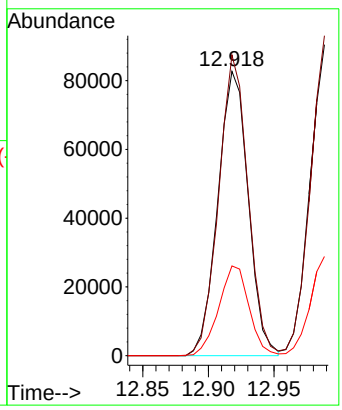
Tgt Ion:196 Resp: 13319

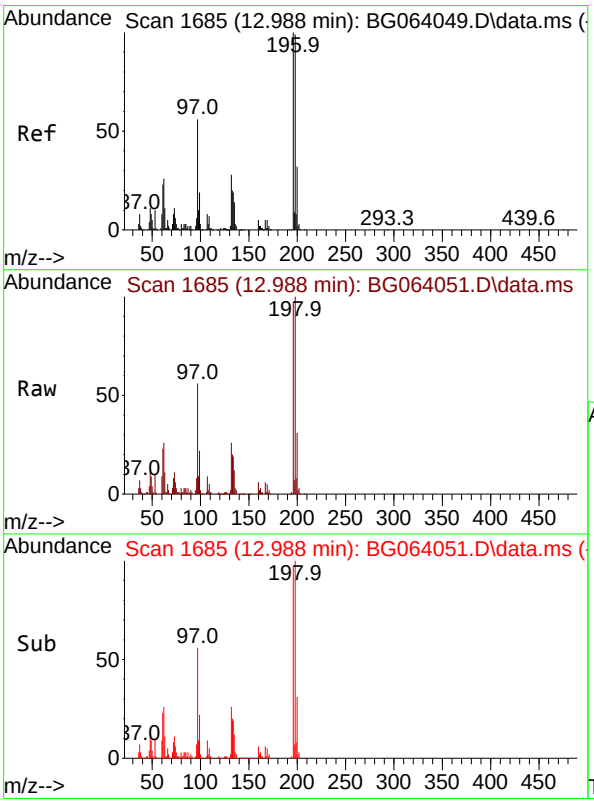
Ion	Ratio	Lower	Upper
196	100		
198	105.7	85.6	128.4
200	31.6	24.6	37.0

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

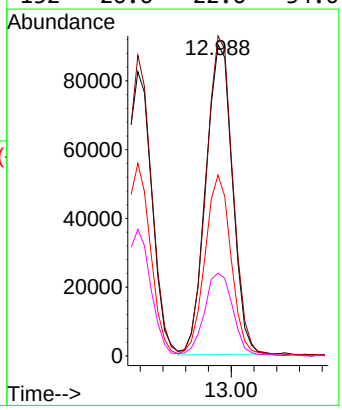


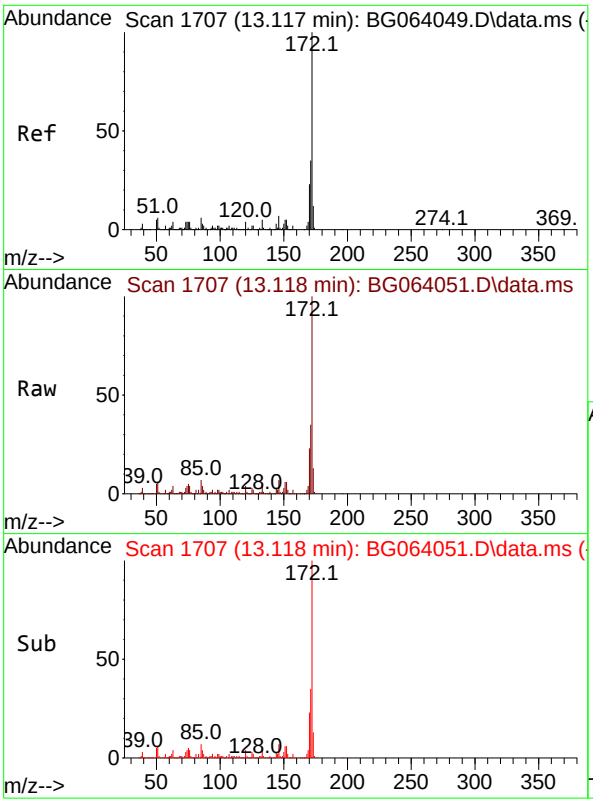


#44
2,4,5-Trichlorophenol
Concen: 65.338 ng
RT: 12.988 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:196 Resp: 147199

Ion	Ratio	Lower	Upper
196	100		
198	102.9	79.5	119.3
97	58.1	45.2	67.8
132	26.6	22.6	34.0

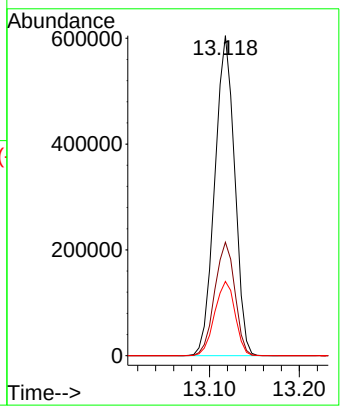




#45
2-Fluorobiphenyl
Concen: 116.978 ng
RT: 13.118 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:172 Resp: 92865

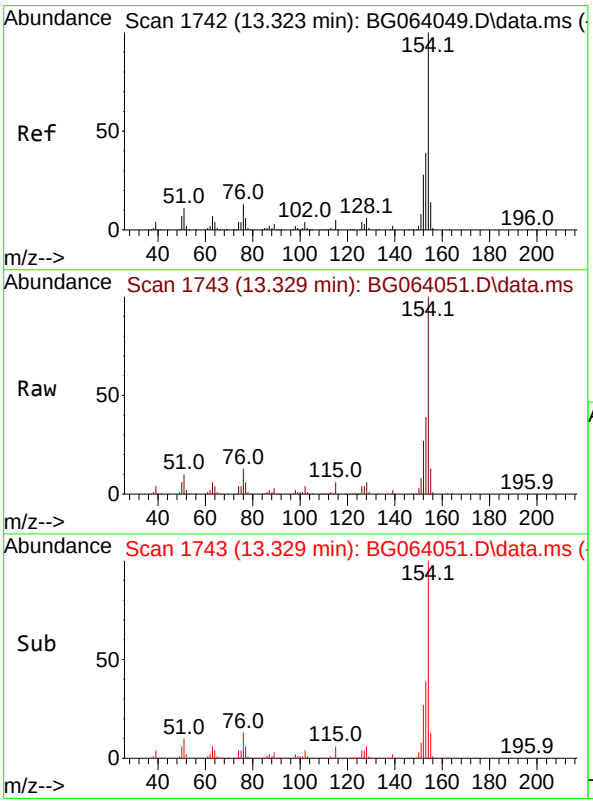
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.0	42.0
170	23.2	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

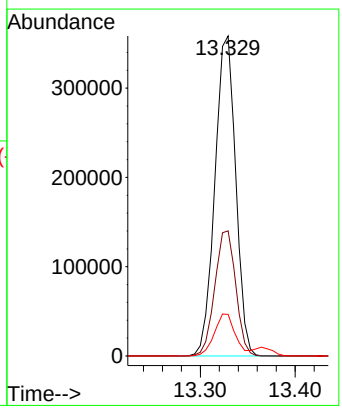
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

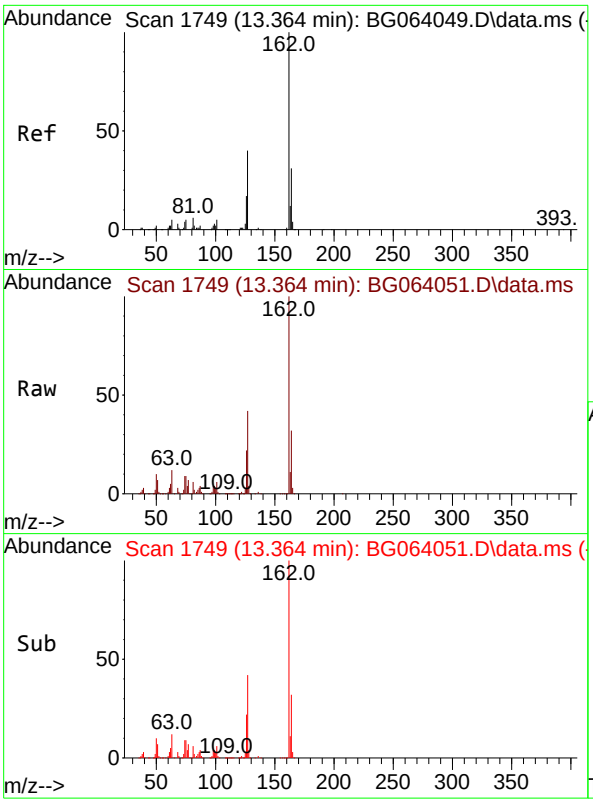


#46
1,1'-Biphenyl
Concen: 60.056 ng
RT: 13.329 min Scan# 1743
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:154 Resp: 546747

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.5	59.5
76	13.0	0.0	33.5

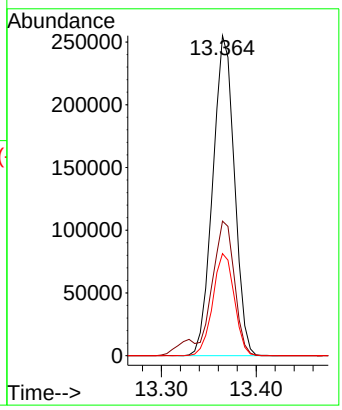




#47
2-Chloronaphthalene
Concen: 61.023 ng
RT: 13.364 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:162 Resp: 40517

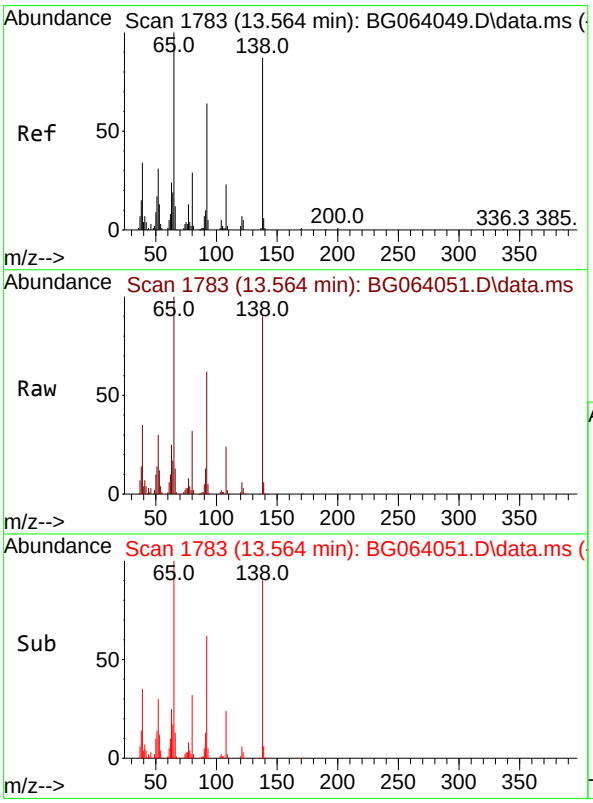
Ion	Ratio	Lower	Upper
162	100		
127	42.1	35.0	52.4
164	31.9	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

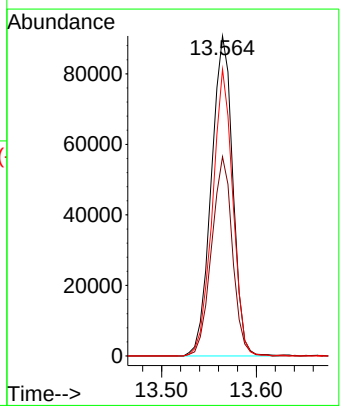
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

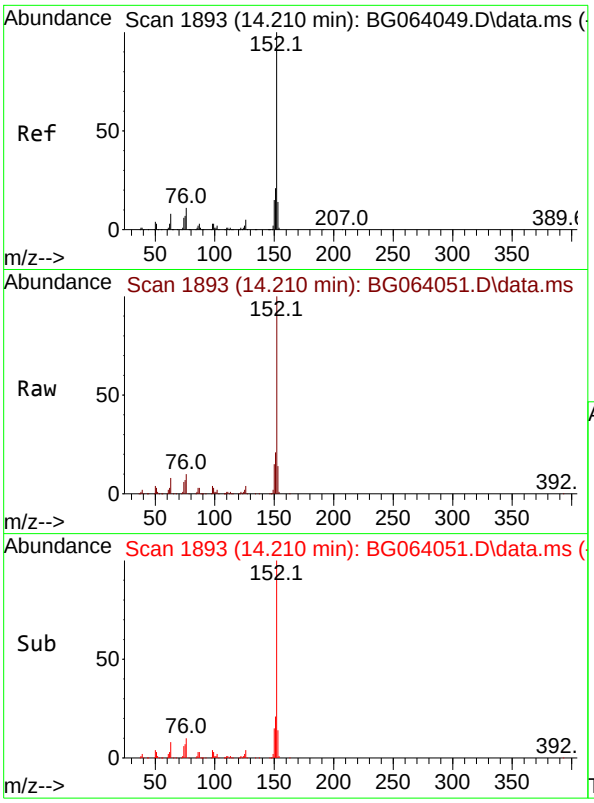


#48
2-Nitroaniline
Concen: 61.521 ng
RT: 13.564 min Scan# 1783
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 65 Resp: 143213

Ion	Ratio	Lower	Upper
65	100		
92	62.2	51.2	76.8
138	89.6	69.4	104.2

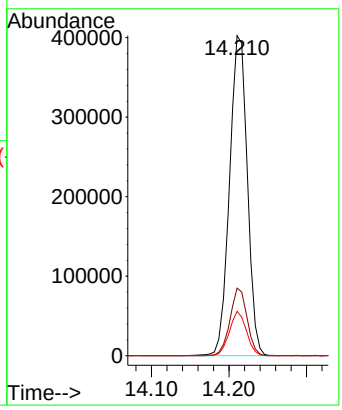




#49
Acenaphthylene
Concen: 61.154 ng
RT: 14.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:152 Resp: 64225

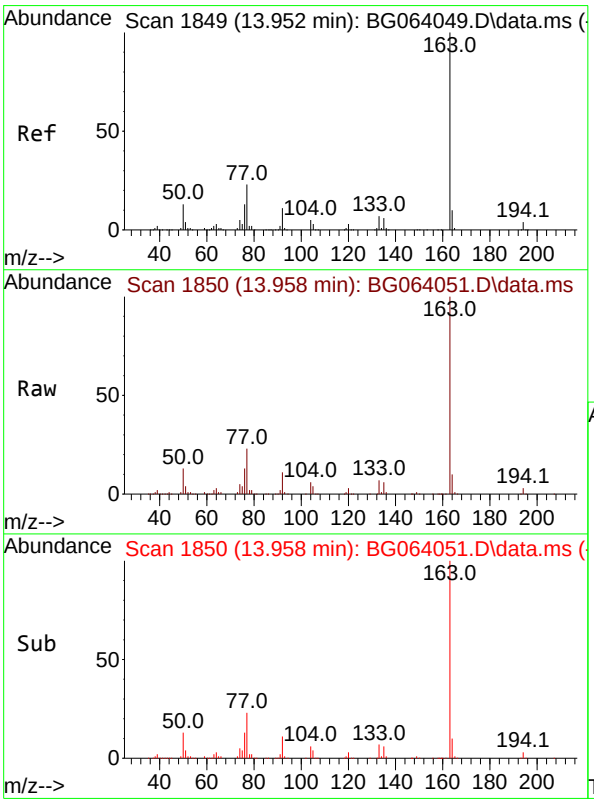
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.4	24.6
153	13.9	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

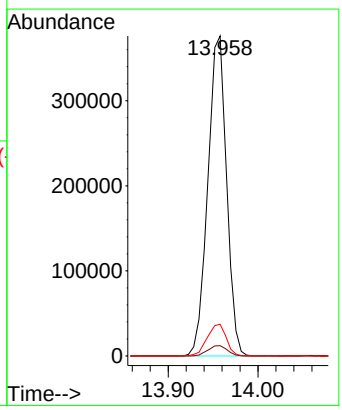
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

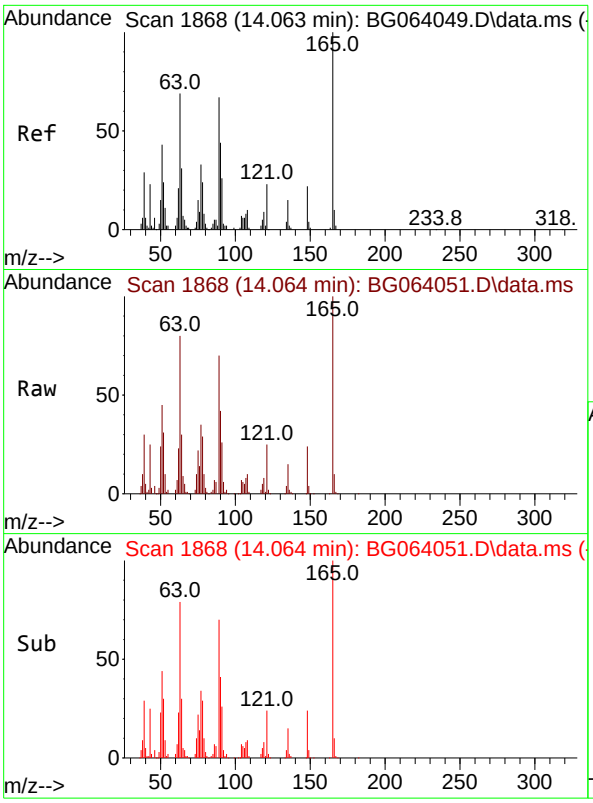


#50
Dimethylphthalate
Concen: 61.282 ng
RT: 13.958 min Scan# 1850
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:163 Resp: 545112

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	9.9	8.2	12.2

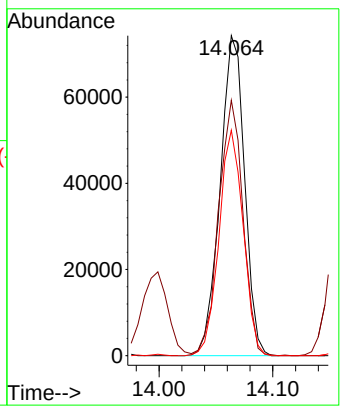




#51
2,6-Dinitrotoluene
Concen: 60.475 ng
RT: 14.064 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:165 Resp: 11082

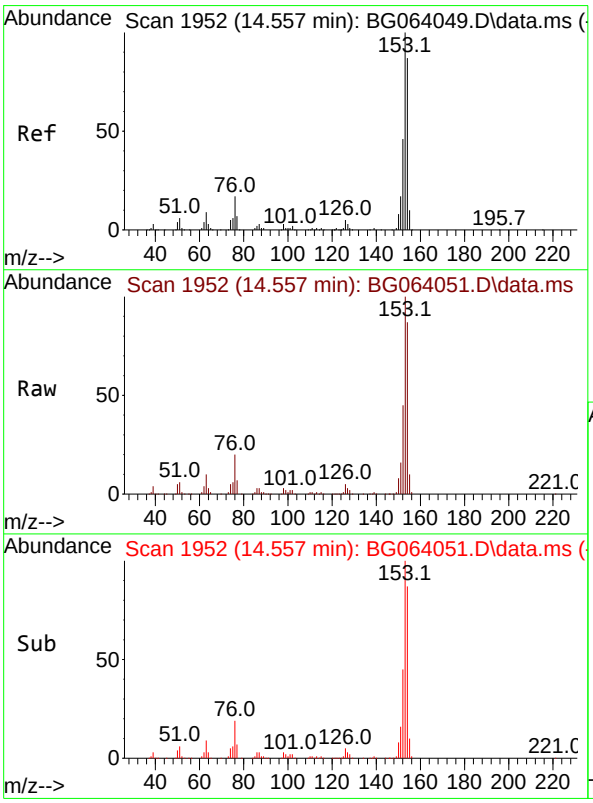
Ion	Ratio	Lower	Upper
165	100		
63	79.8	56.7	85.1
89	70.5	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

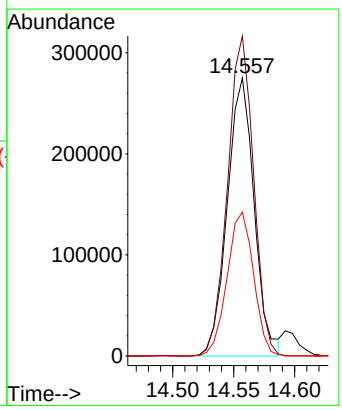
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

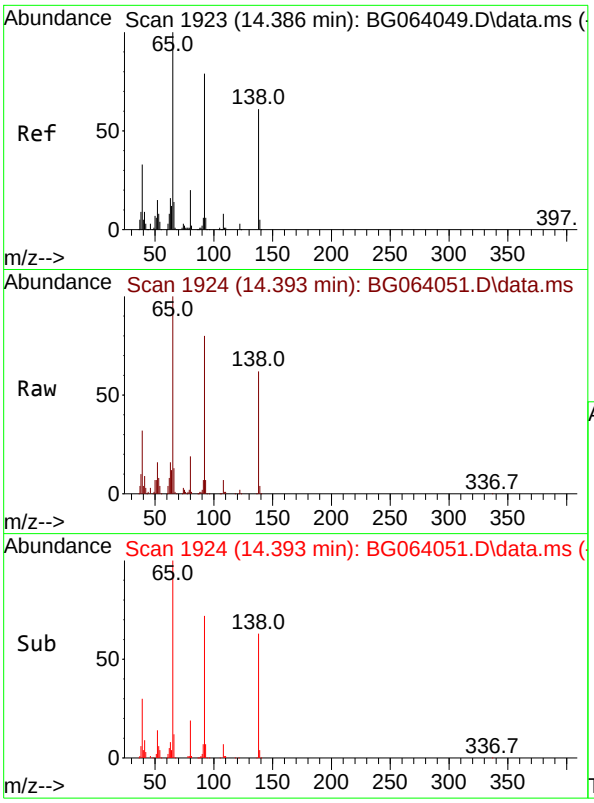


#52
Acenaphthene
Concen: 59.918 ng
RT: 14.557 min Scan# 1952
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:154 Resp: 423181

Ion	Ratio	Lower	Upper
154	100		
153	115.2	91.6	137.4
152	51.8	42.5	63.7





#53
3-Nitroaniline
Concen: 69.150 ng
RT: 14.393 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

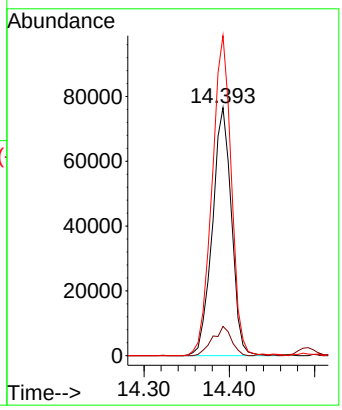
Tgt Ion:138 Resp: 11888

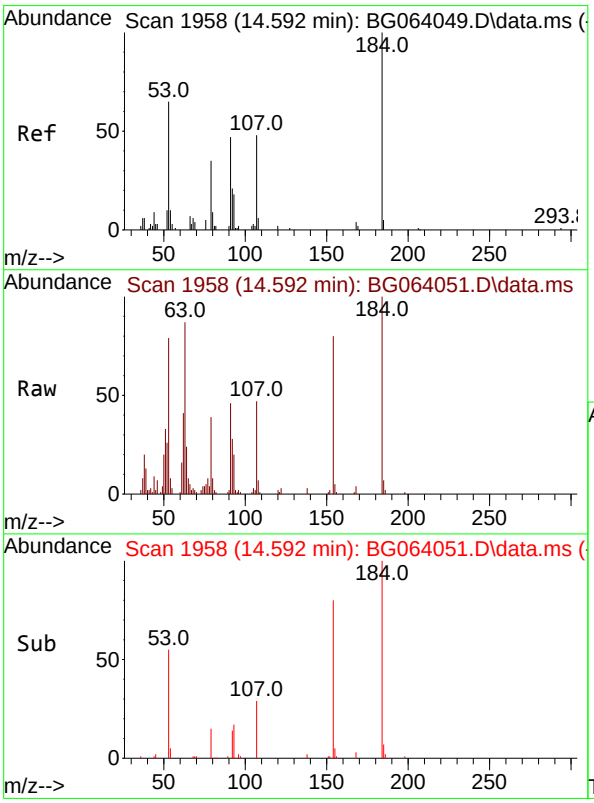
Ion	Ratio	Lower	Upper
138	100		
108	11.8	10.1	15.1
92	129.1	104.1	156.1

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

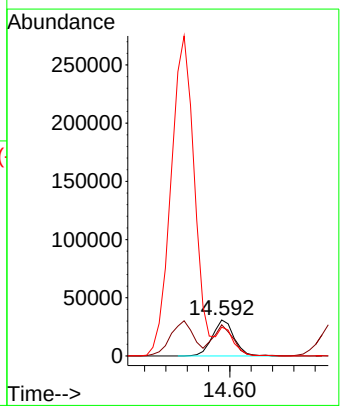


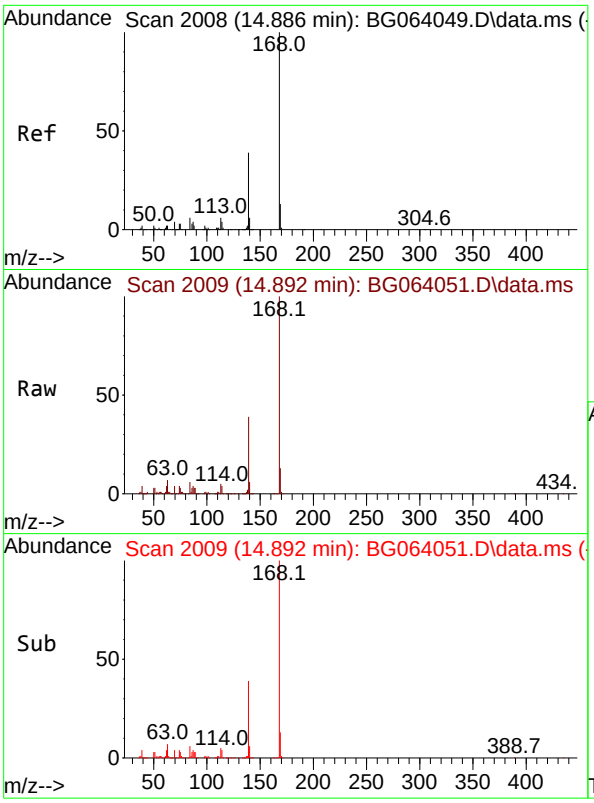


#54
2,4-Dinitrophenol
Concen: 60.118 ng
RT: 14.592 min Scan# 1958
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:184 Resp: 43597

Ion	Ratio	Lower	Upper
184	100		
63	86.6	57.5	86.3#
154	80.0	52.3	78.5#

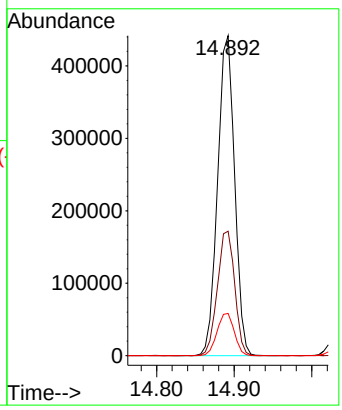




#55
Dibenzofuran
Concen: 59.009 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:168 Resp: 67376

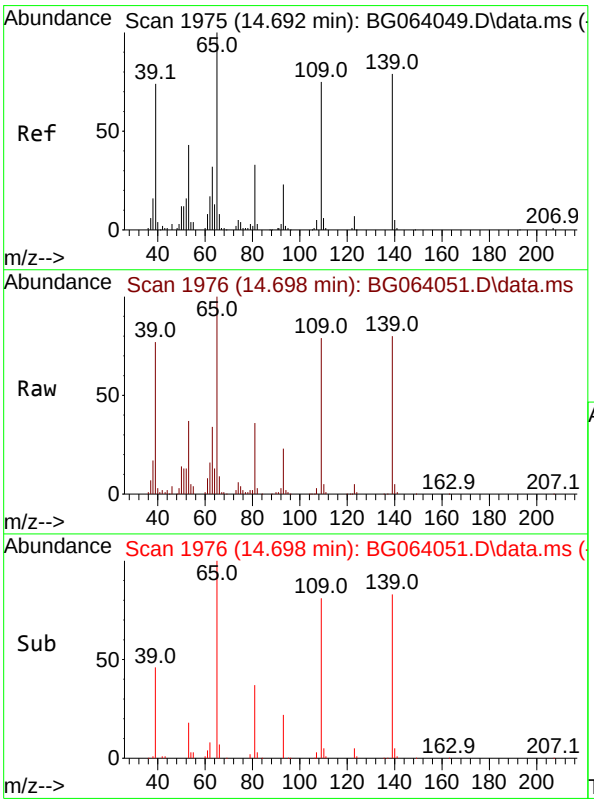
Ion	Ratio	Lower	Upper
168	100		
139	38.9	31.1	46.7
169	13.2	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

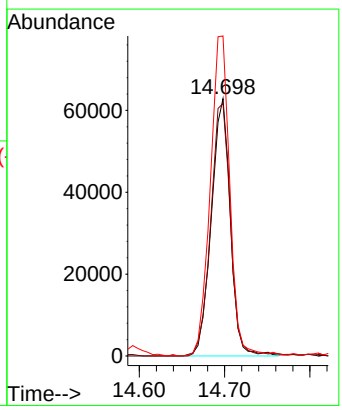
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

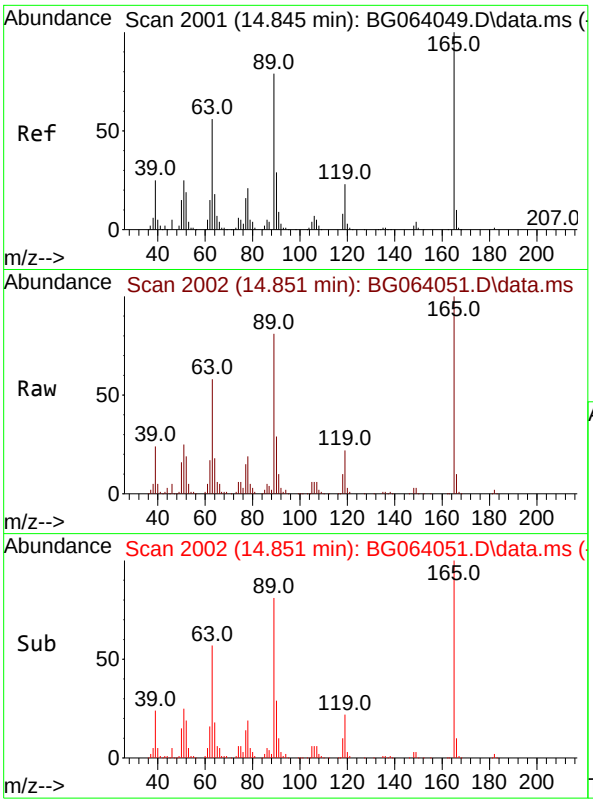


#56
4-Nitrophenol
Concen: 67.751 ng
RT: 14.698 min Scan# 1976
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:139 Resp: 97685

Ion	Ratio	Lower	Upper
139	100		
109	98.1	74.9	114.9
65	124.4	106.8	146.8

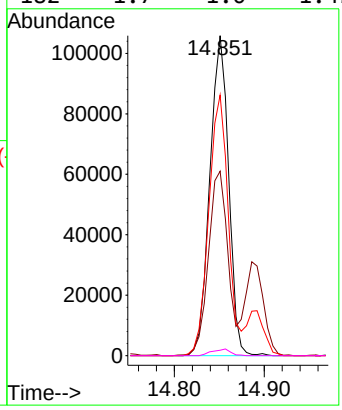




#57
2,4-Dinitrotoluene
Concen: 60.762 ng
RT: 14.851 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:165 Resp: 15390

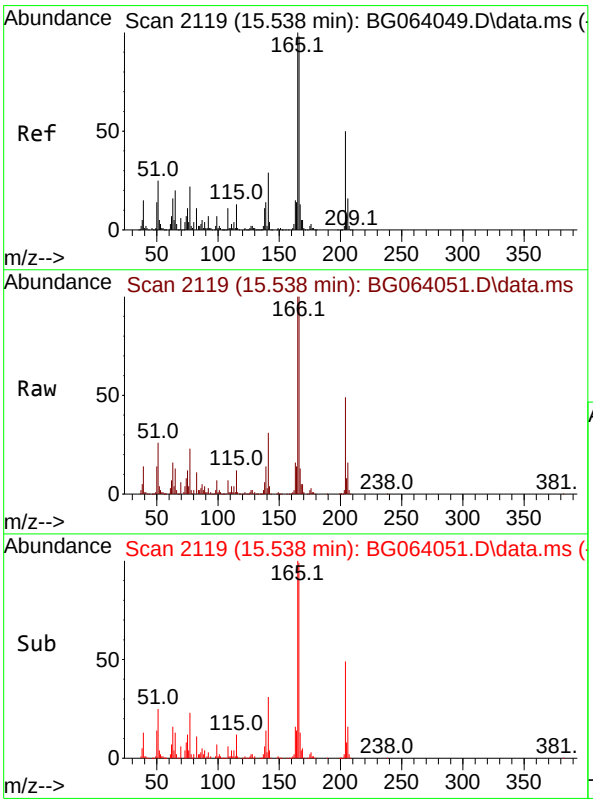
Ion	Ratio	Lower	Upper
165	100		
63	57.7	45.0	67.6
89	81.5	63.1	94.7
182	1.7	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

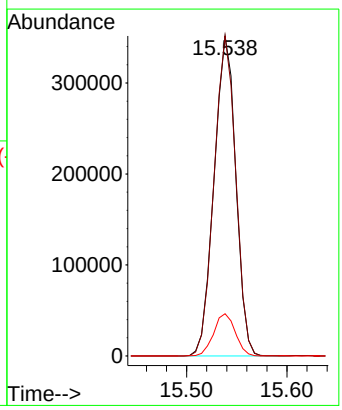
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

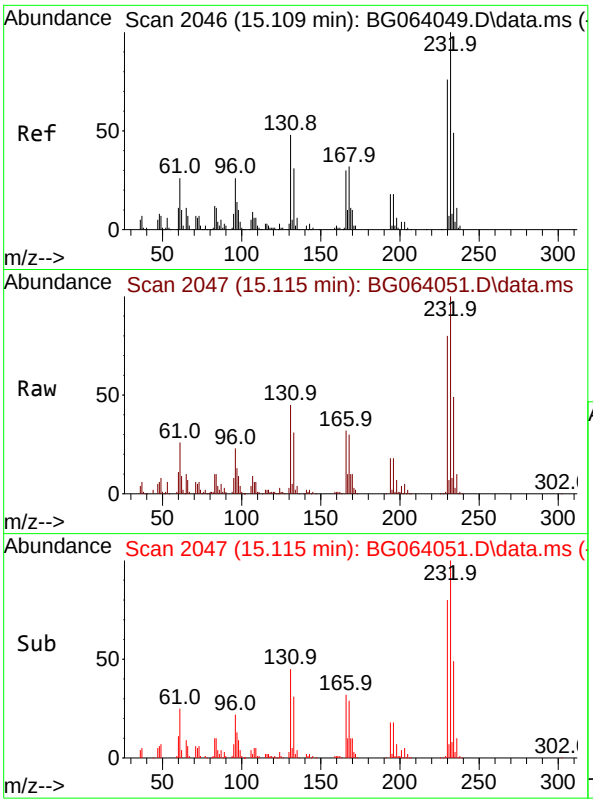


#58
Fluorene
Concen: 59.367 ng
RT: 15.538 min Scan# 2119
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:166 Resp: 527952

Ion	Ratio	Lower	Upper
166	100		
165	100.0	81.8	122.8
167	13.2	10.8	16.2

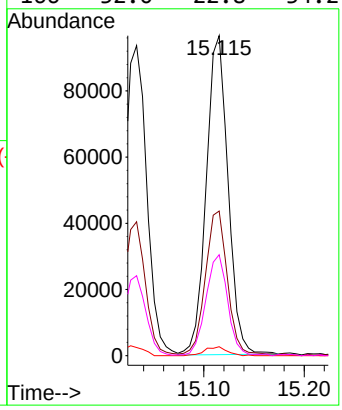




#59
2,3,4,6-Tetrachlorophenol
Concen: 66.199 ng
RT: 15.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:232 Resp: 14539

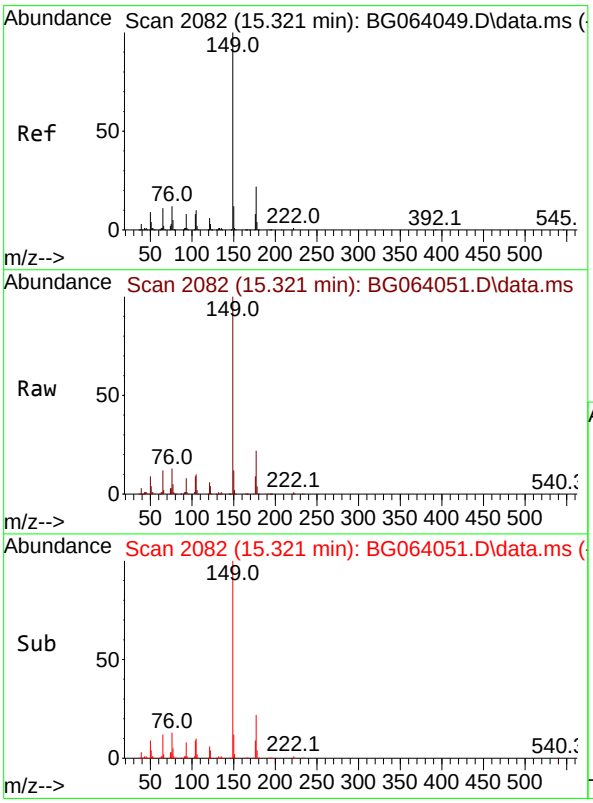
Ion	Ratio	Lower	Upper
232	100		
131	46.7	36.3	54.5
130	2.9	1.9	2.9
166	32.0	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

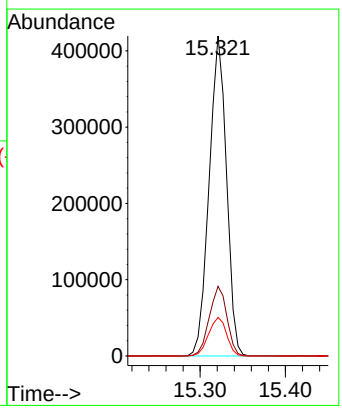
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

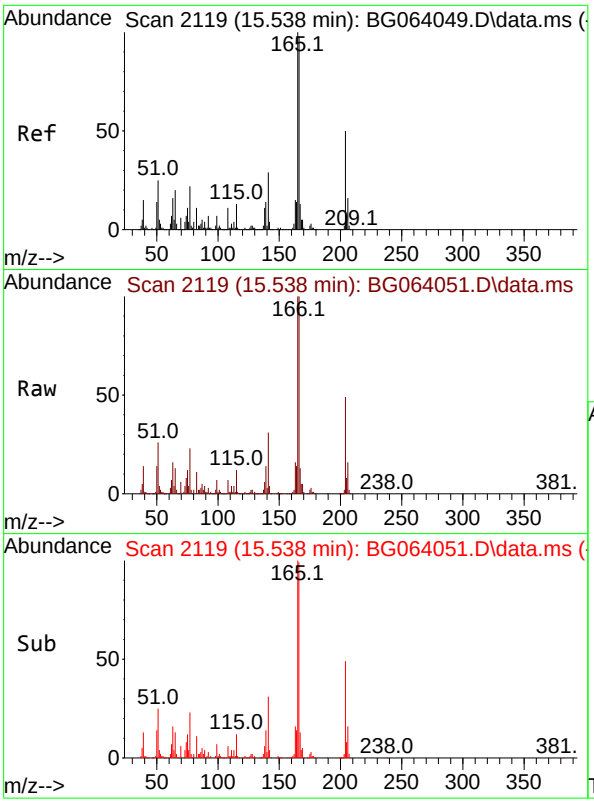


#60
Diethylphthalate
Concen: 61.289 ng
RT: 15.321 min Scan# 2082
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:149 Resp: 591838

Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.4	26.2
150	12.0	9.4	14.2

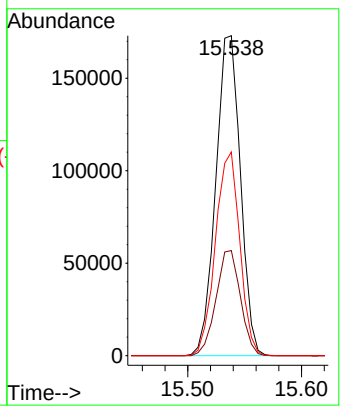




#61
4-Chlorophenyl-phenylether
Concen: 59.007 ng
RT: 15.538 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:204 Resp: 26076

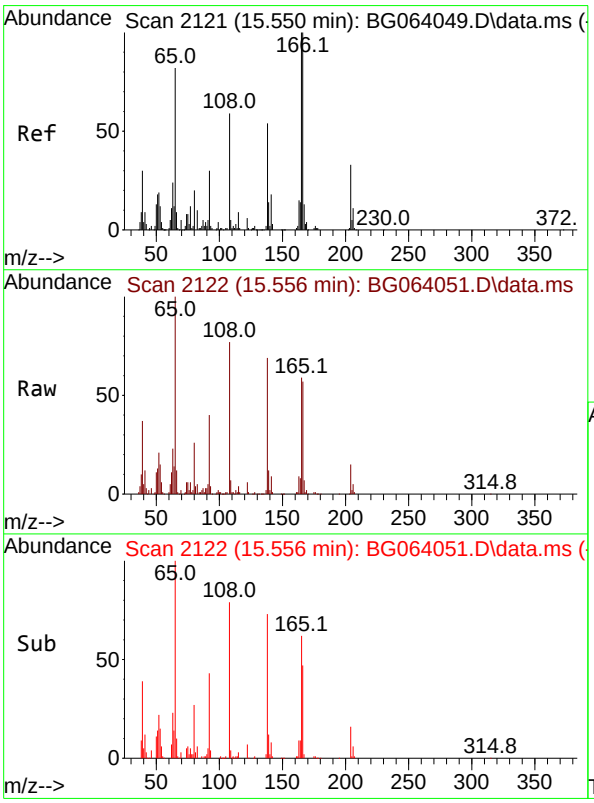
Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.5	38.3
141	63.7	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

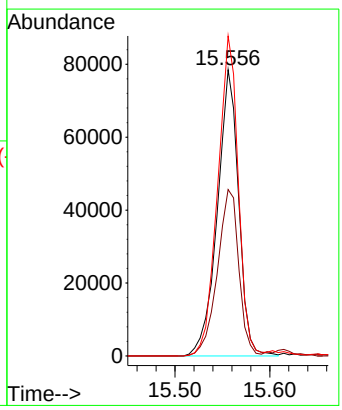
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

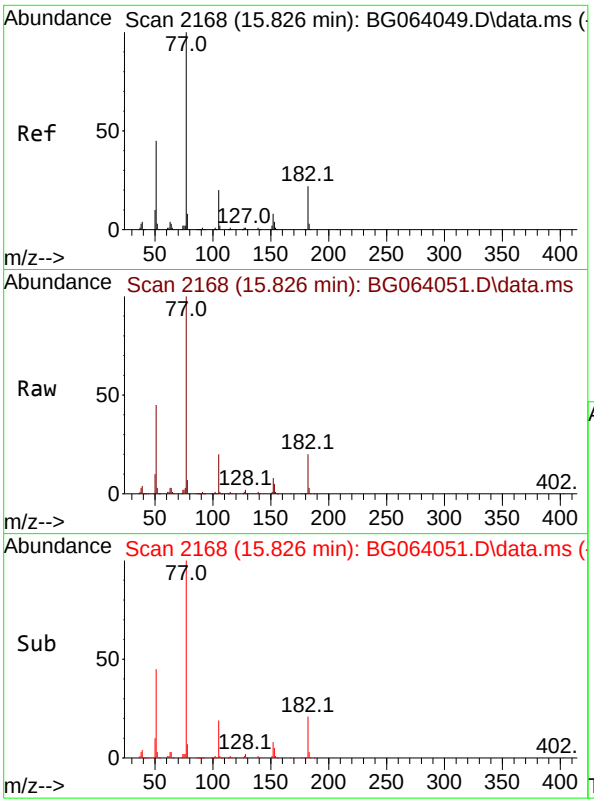


#62
4-Nitroaniline
Concen: 65.996 ng
RT: 15.556 min Scan# 2122
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:138 Resp: 122494

Ion	Ratio	Lower	Upper
138	100		
92	58.1	36.1	76.1
108	111.8	87.9	127.9

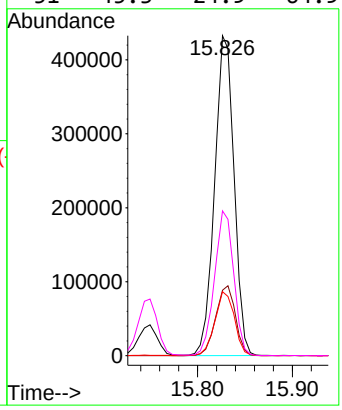




#63
Azobenzene
Concen: 59.818 ng
RT: 15.826 min Scan# 21
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion: 77 Resp: 61638

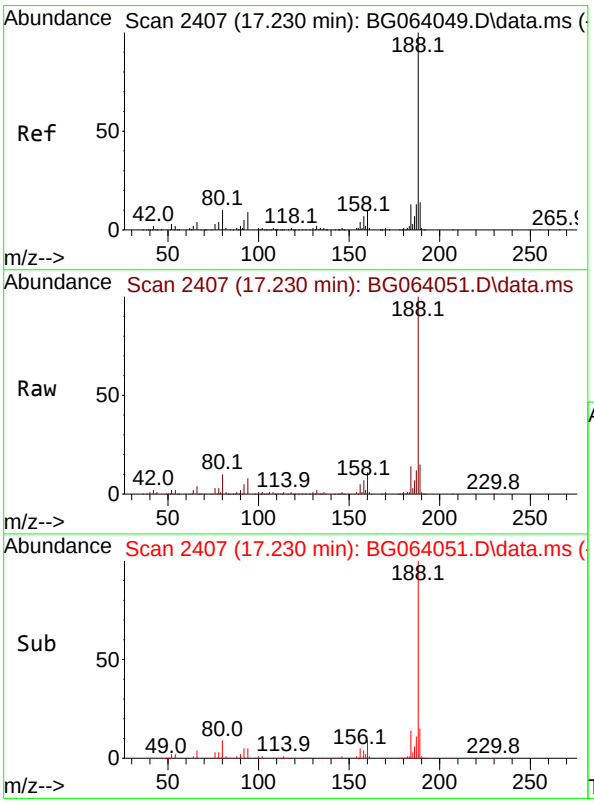
Ion	Ratio	Lower	Upper
77	100		
182	20.4	2.4	42.4
105	20.0	0.0	40.0
51	45.3	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

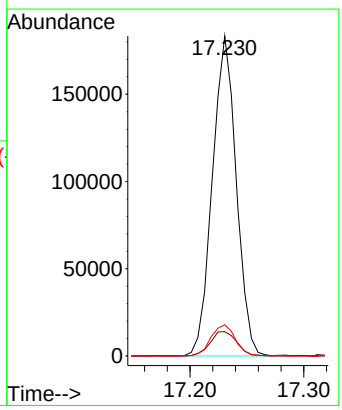
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

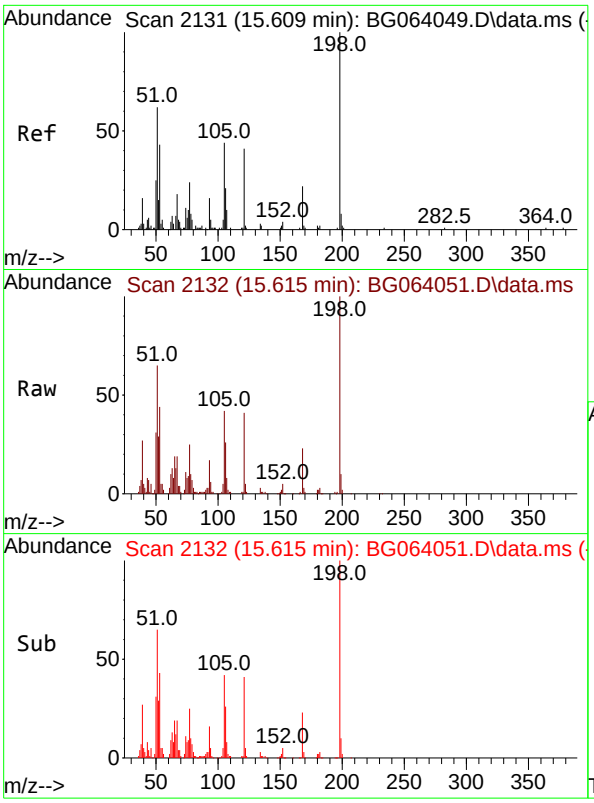


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.230 min Scan# 2407
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:188 Resp: 267696

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.9	10.3
80	9.8	8.1	12.1

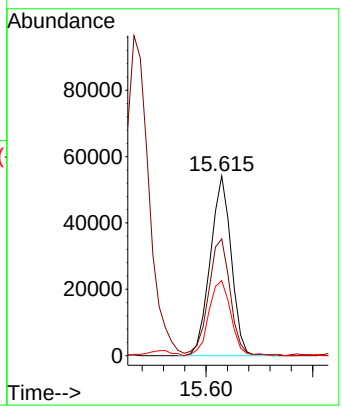




#65
4,6-Dinitro-2-methylphenol
Concen: 61.305 ng
RT: 15.615 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:198 Resp: 7405

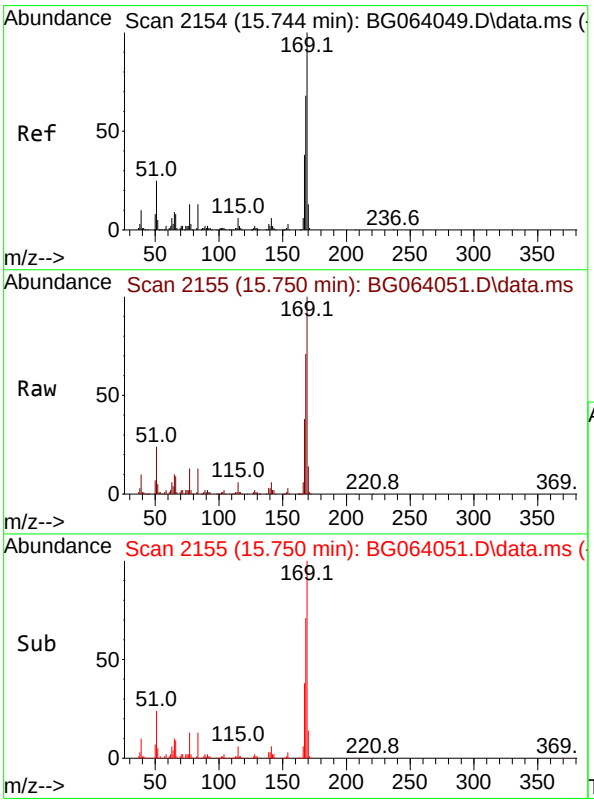
Ion	Ratio	Lower	Upper
198	100		
51	65.1	45.6	85.6
105	41.7	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

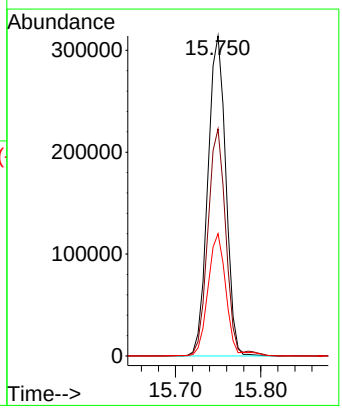
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

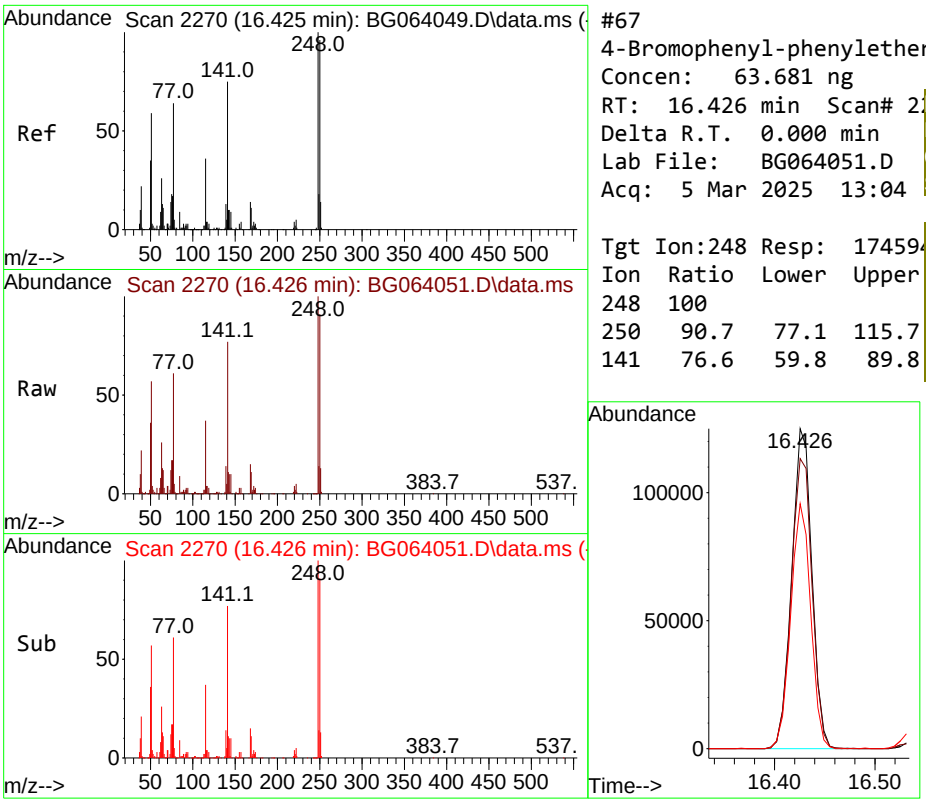


#66
n-Nitrosodiphenylamine
Concen: 60.488 ng
RT: 15.750 min Scan# 2155
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:169 Resp: 458342

Ion	Ratio	Lower	Upper
169	100		
168	71.0	54.1	81.1
167	38.2	30.3	45.5





#67
4-Bromophenyl-phenylether
Concen: 63.681 ng
RT: 16.426 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

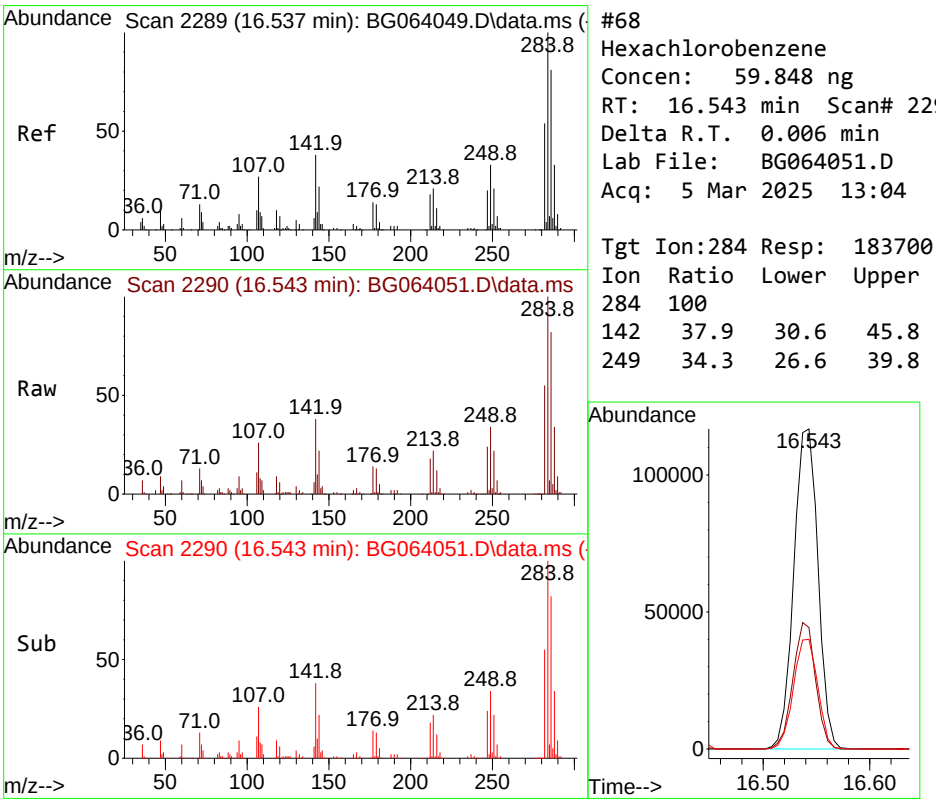
Tgt Ion:248 Resp: 17459

Ion	Ratio	Lower	Upper
248	100		
250	90.7	77.1	115.7
141	76.6	59.8	89.8

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

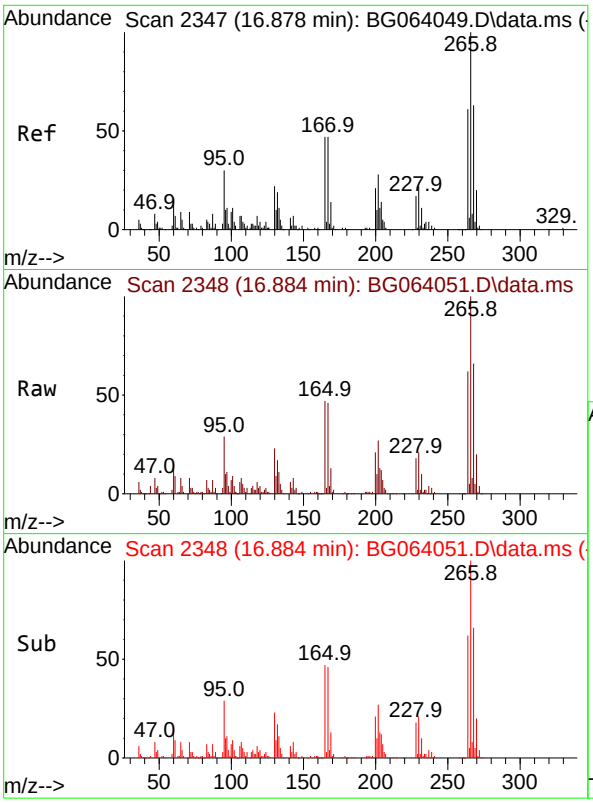
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#68
Hexachlorobenzene
Concen: 59.848 ng
RT: 16.543 min Scan# 2290
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:284 Resp: 183700

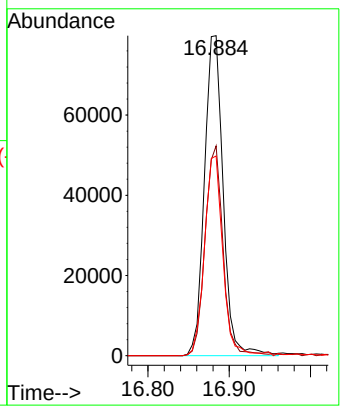
Ion	Ratio	Lower	Upper
284	100		
142	37.9	30.6	45.8
249	34.3	26.6	39.8



#70
Pentachlorophenol
Concen: 66.910 ng
RT: 16.884 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:266 Resp: 12751

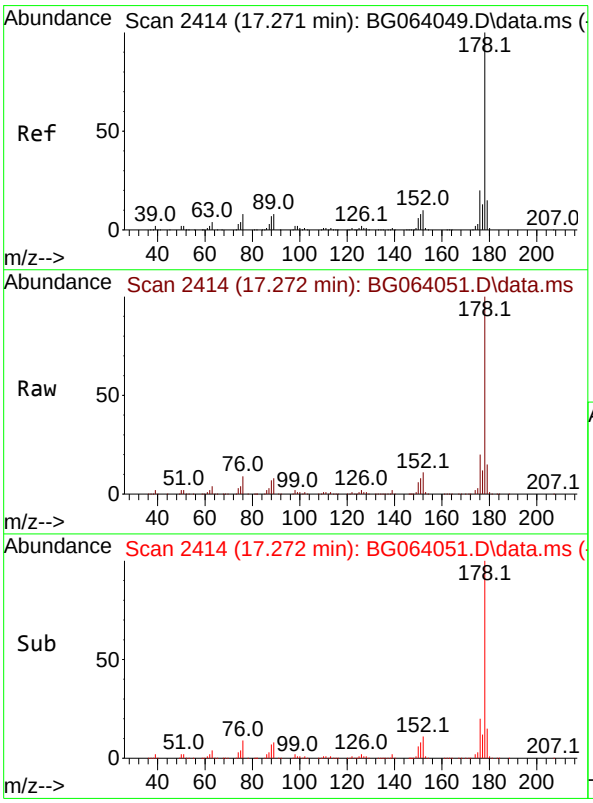
Ion	Ratio	Lower	Upper
266	100		
268	65.5	50.2	75.4
264	62.4	48.9	73.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

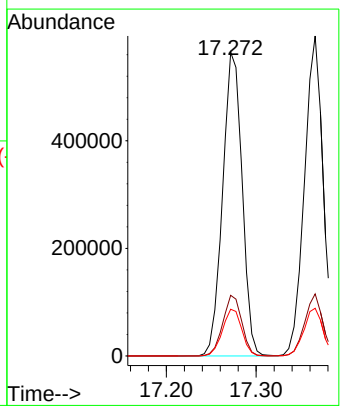
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

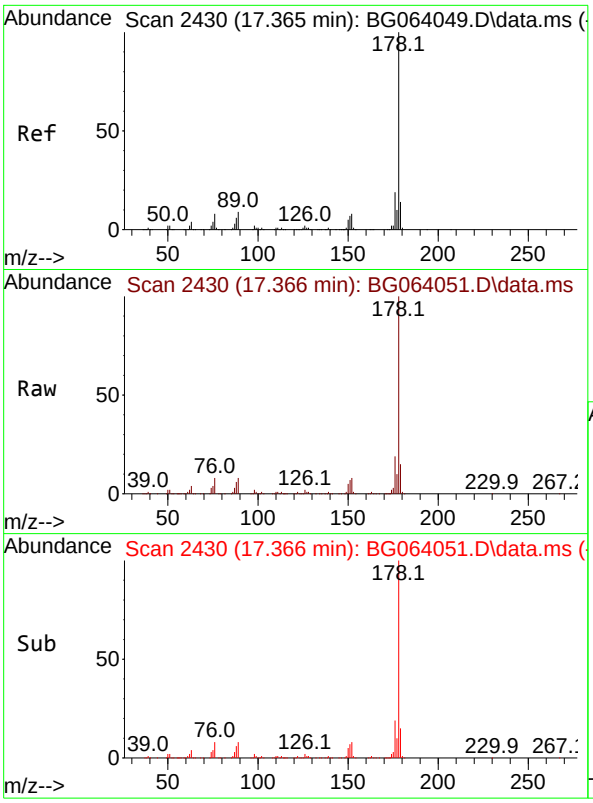


#71
Phenanthrene
Concen: 59.544 ng
RT: 17.272 min Scan# 2414
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:178 Resp: 850190

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.9	23.9
179	15.4	12.2	18.2

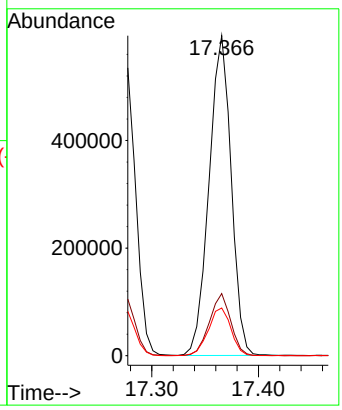




#72
Anthracene
Concen: 60.267 ng
RT: 17.366 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:178 Resp: 85566

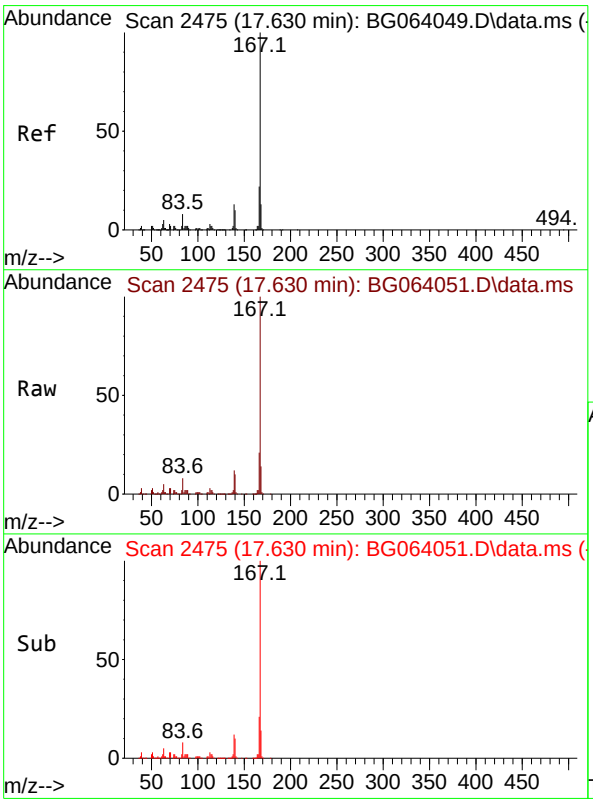
Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.8	22.2
179	14.9	11.5	17.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

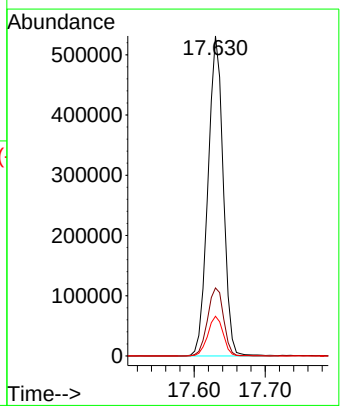
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

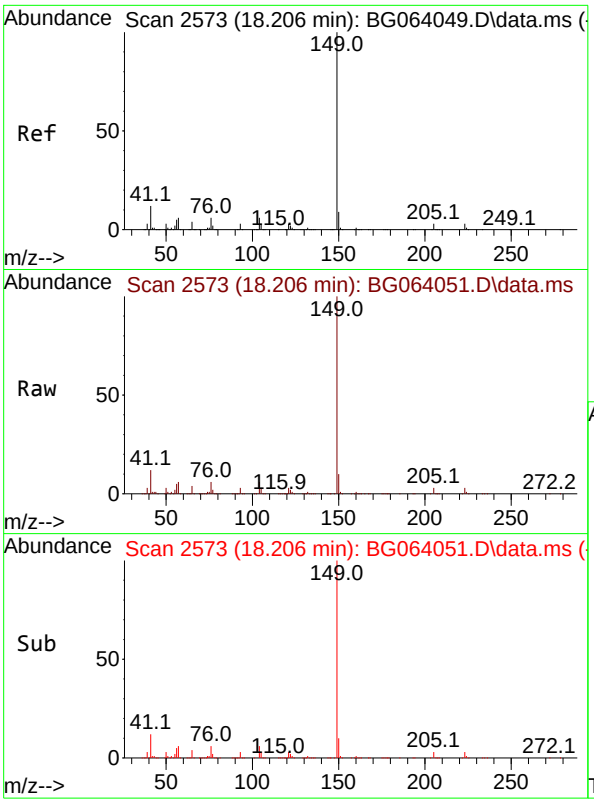


#73
Carbazole
Concen: 59.729 ng
RT: 17.630 min Scan# 2475
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:167 Resp: 791764

Ion	Ratio	Lower	Upper
167	100		
166	21.2	18.0	27.0
139	12.4	10.6	15.8

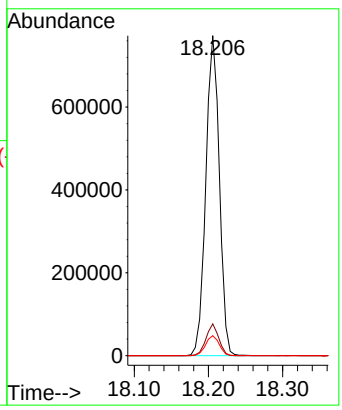




#74
Di-n-butylphthalate
Concen: 62.731 ng
RT: 18.206 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:149 Resp: 97883

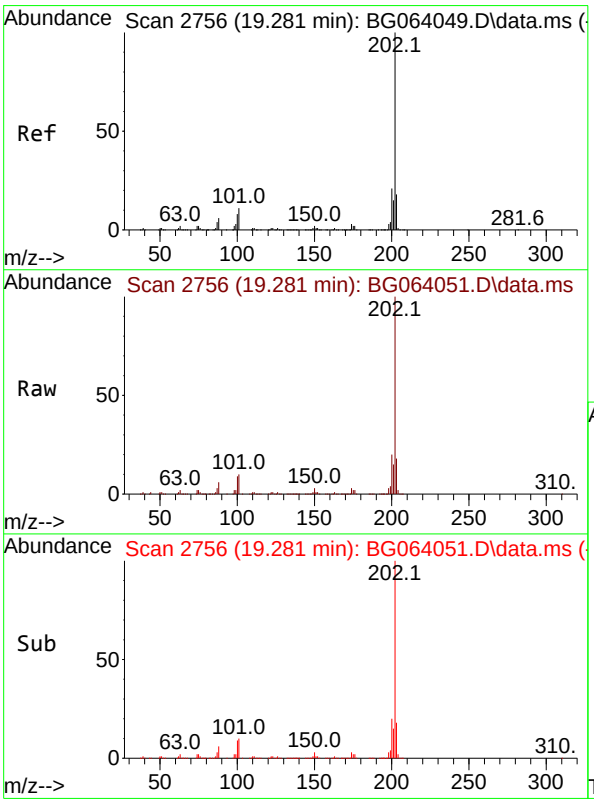
Ion	Ratio	Lower	Upper
149	100		
150	9.9	7.4	11.0
104	6.3	5.0	7.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

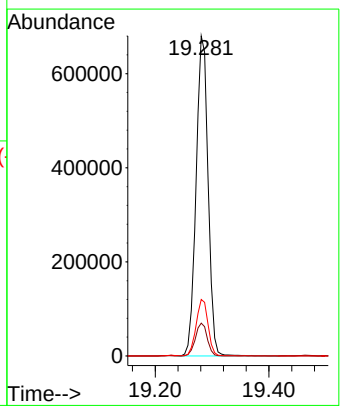
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

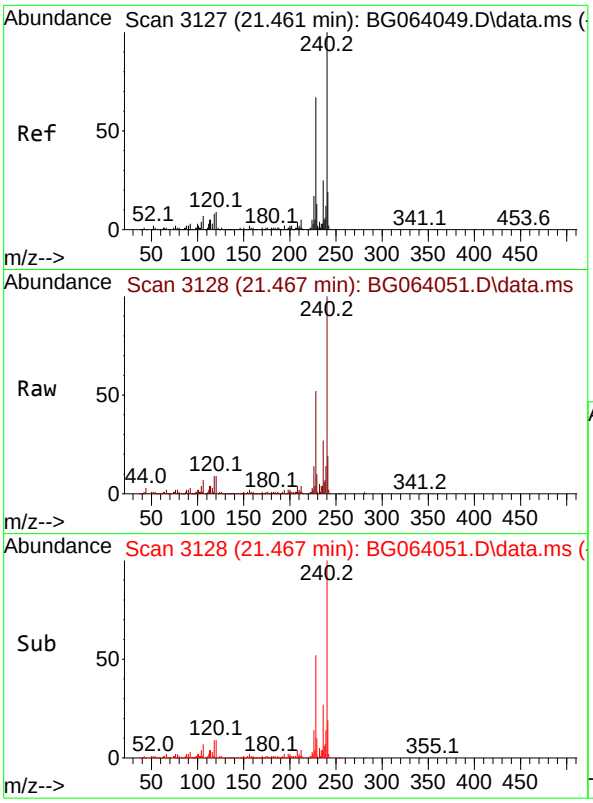


#75
Fluoranthene
Concen: 57.980 ng
RT: 19.281 min Scan# 2756
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:202 Resp: 998035

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.5
203	17.7	0.0	38.3

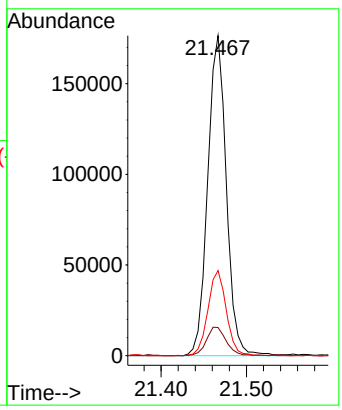




#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.467 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:240 Resp: 26769

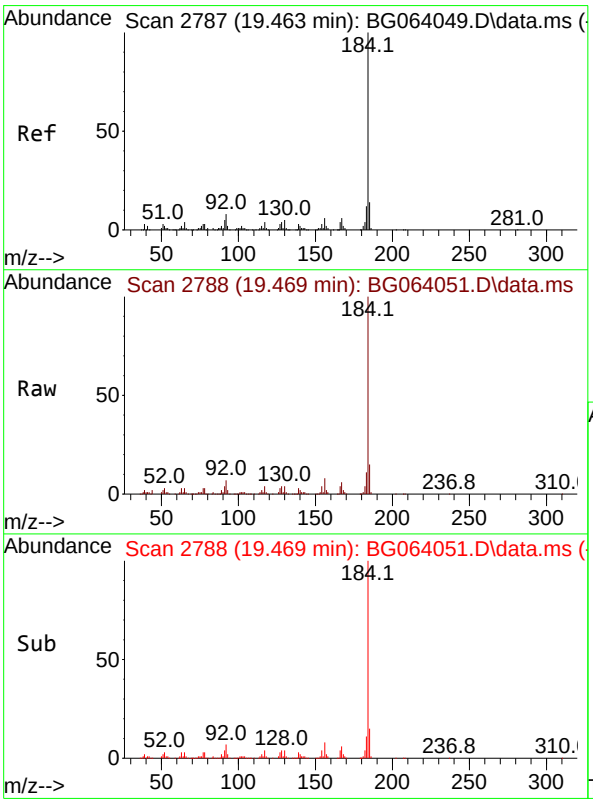
Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.2	10.8
236	26.6	20.2	30.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

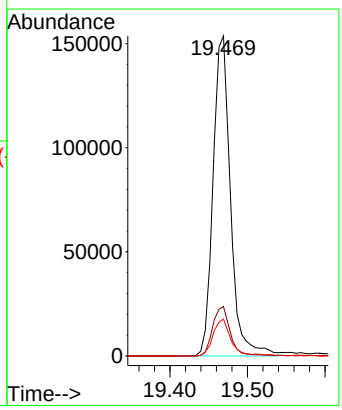
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

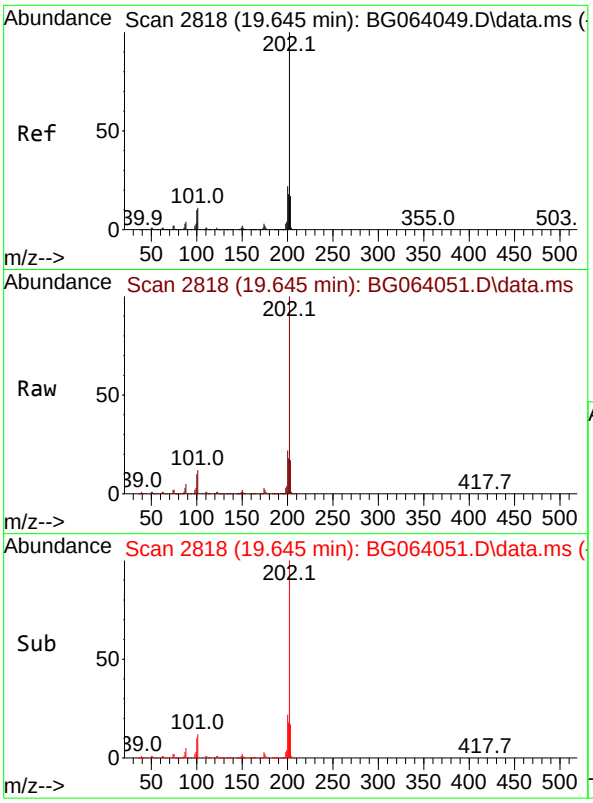


#77
Benzidine
Concen: 63.973 ng
RT: 19.469 min Scan# 2788
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:184 Resp: 240411

Ion	Ratio	Lower	Upper
184	100		
185	15.4	11.3	16.9
183	11.5	9.5	14.3

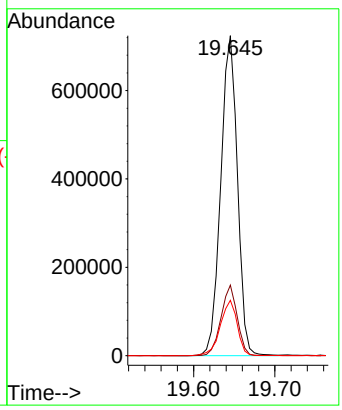




#78
Pyrene
Concen: 60.030 ng
RT: 19.645 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:202 Resp: 103590

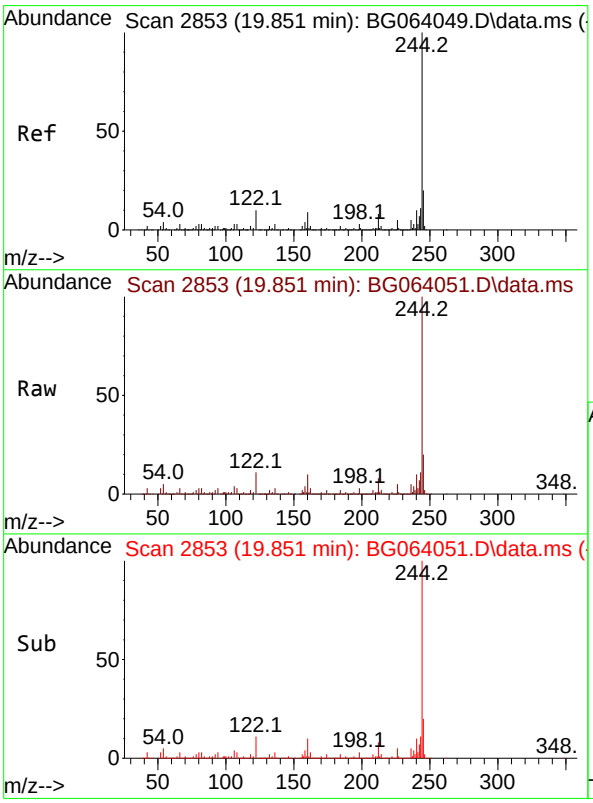
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.3	25.9
203	17.3	13.6	20.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

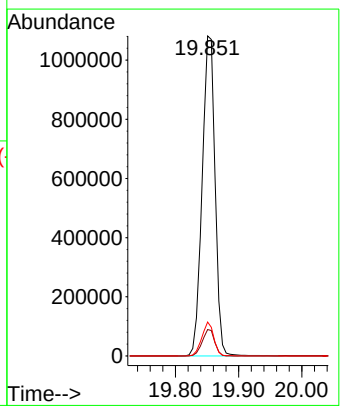
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

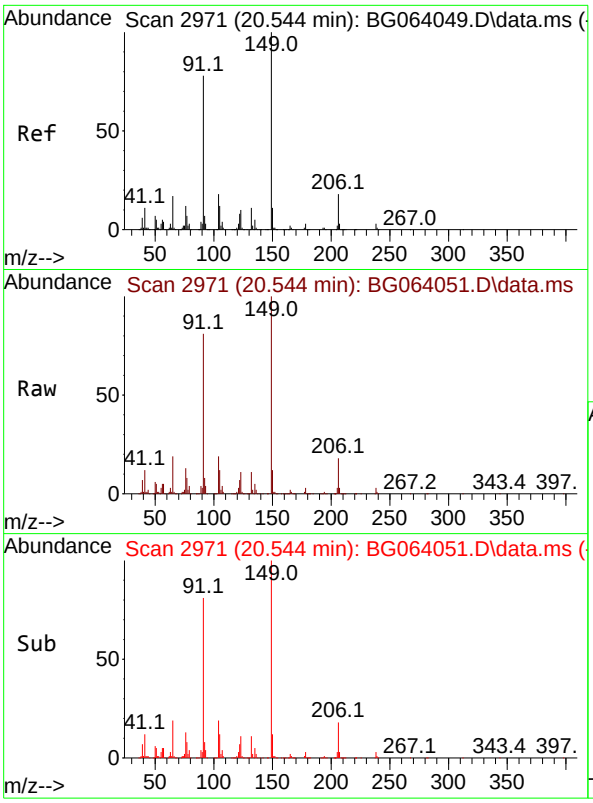


#79
Terphenyl-d14
Concen: 116.081 ng
RT: 19.851 min Scan# 2853
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:244 Resp: 1536841

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.4
122	10.6	8.0	12.0

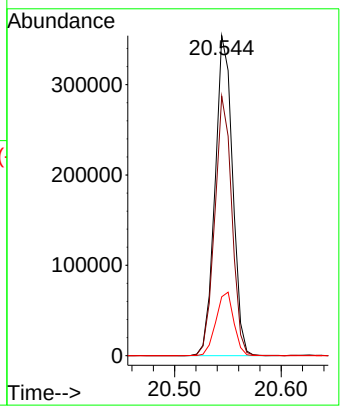




#80
Butylbenzylphthalate
Concen: 61.244 ng
RT: 20.544 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:149 Resp: 40360

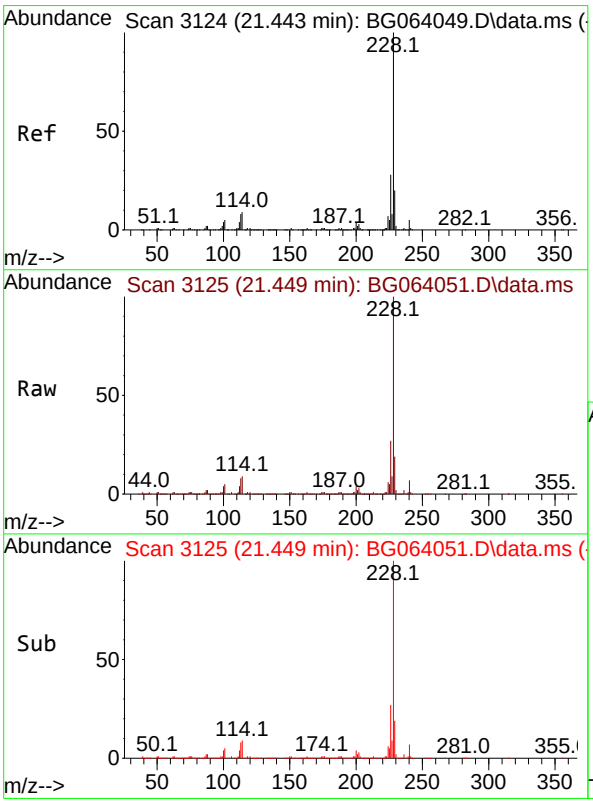
Ion	Ratio	Lower	Upper
149	100		
91	81.1	62.0	93.0
206	18.4	14.6	21.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

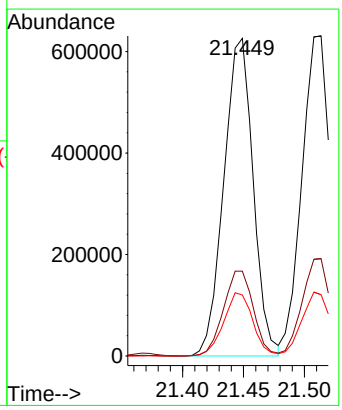
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

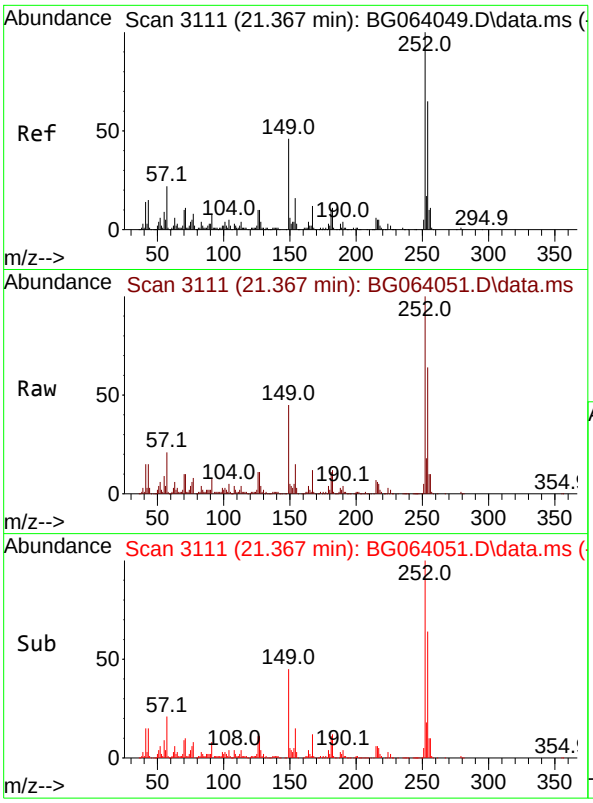


#81
Benzo(a)anthracene
Concen: 61.323 ng
RT: 21.449 min Scan# 3125
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:228 Resp: 1051558

Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.2	33.2
229	19.2	16.4	24.6

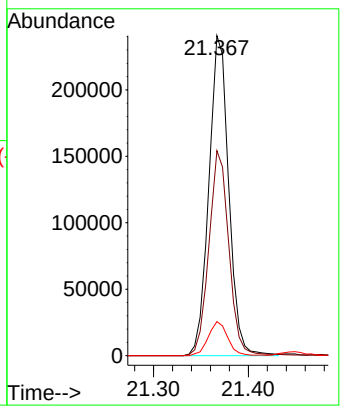




#82
3,3'-Dichlorobenzidine
Concen: 63.055 ng
RT: 21.367 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:252 Resp: 34993

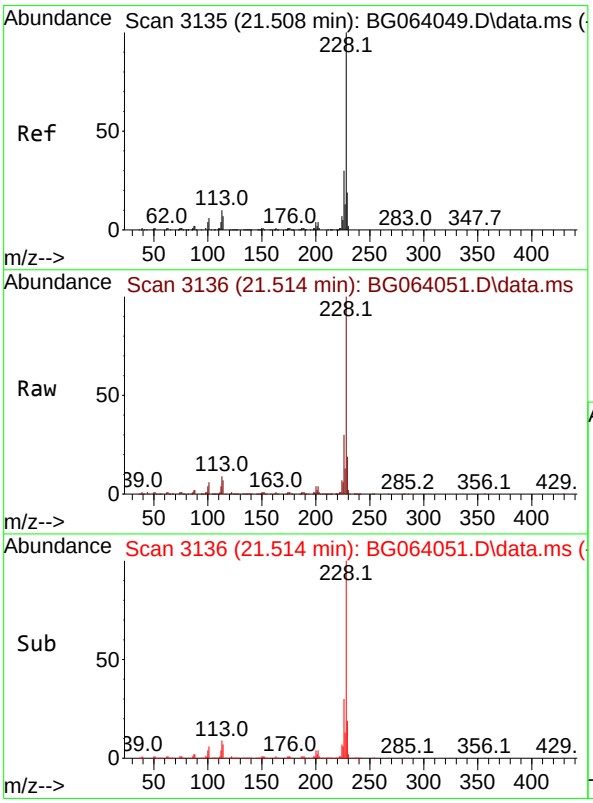
Ion	Ratio	Lower	Upper
252	100		
254	64.1	52.1	78.1
126	10.7	7.8	11.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

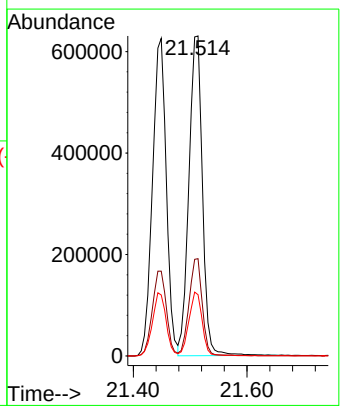
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

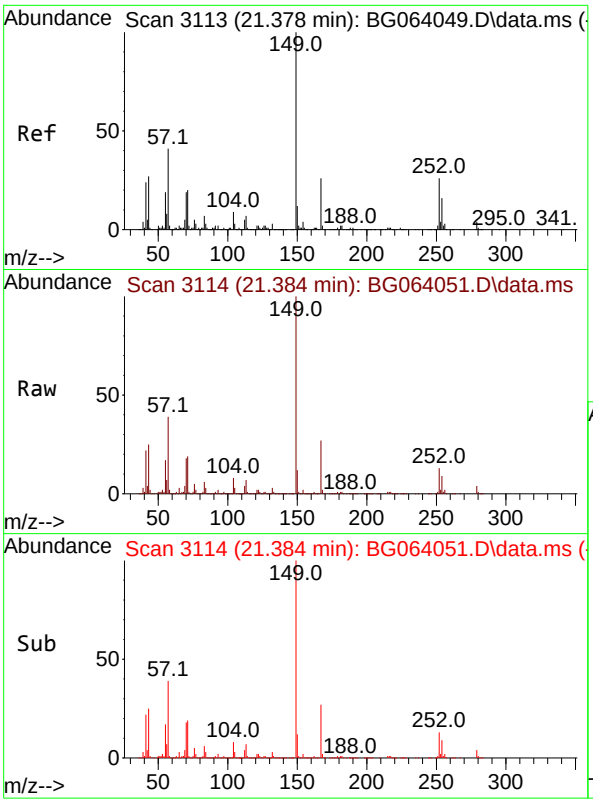


#83
Chrysene
Concen: 61.078 ng
RT: 21.514 min Scan# 3136
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:228 Resp: 1044616

Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.9	35.9
229	19.1	15.3	22.9





#84
Bis(2-ethylhexyl)phthalate
Concen: 68.341 ng
RT: 21.384 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

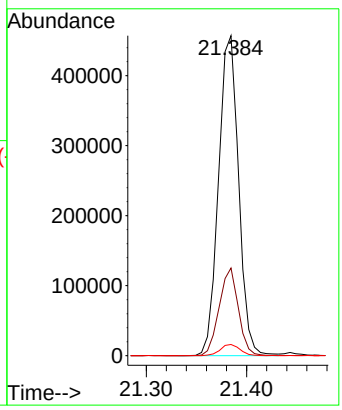
Tgt Ion:149 Resp: 63379

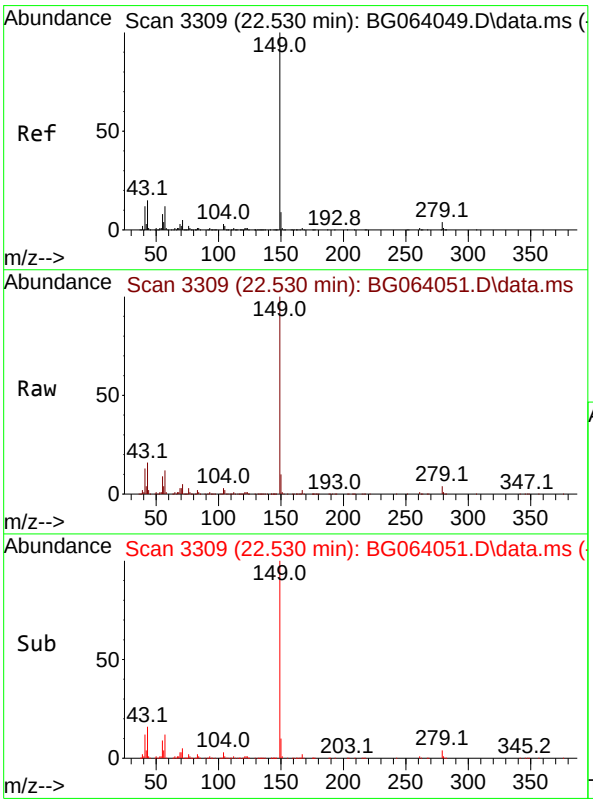
Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.0	31.6
279	3.5	2.8	4.2

Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

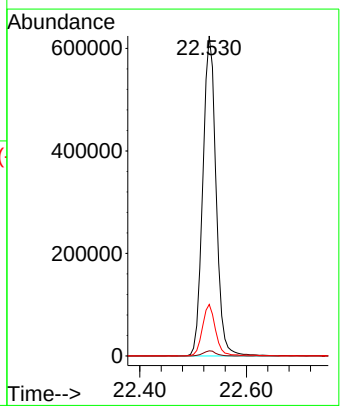


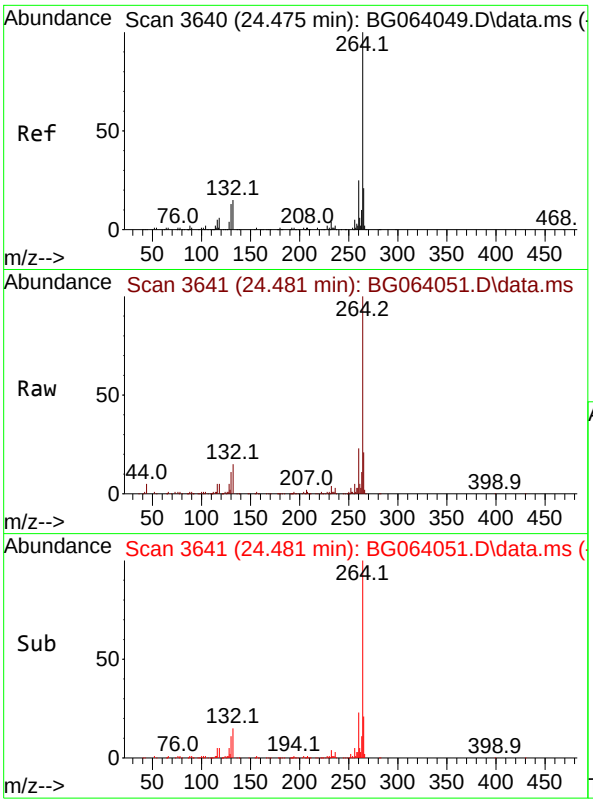


#85
Di-n-octyl phthalate
Concen: 67.209 ng
RT: 22.530 min Scan# 3309
Delta R.T. 0.000 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:149 Resp: 1075085

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	15.9	12.6	19.0

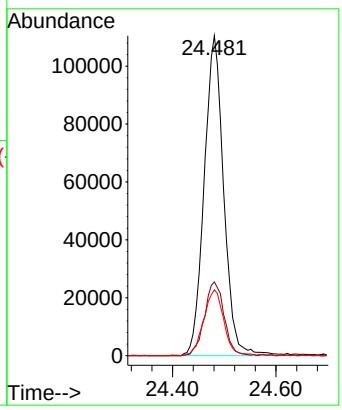




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.481 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:264 Resp: 28923

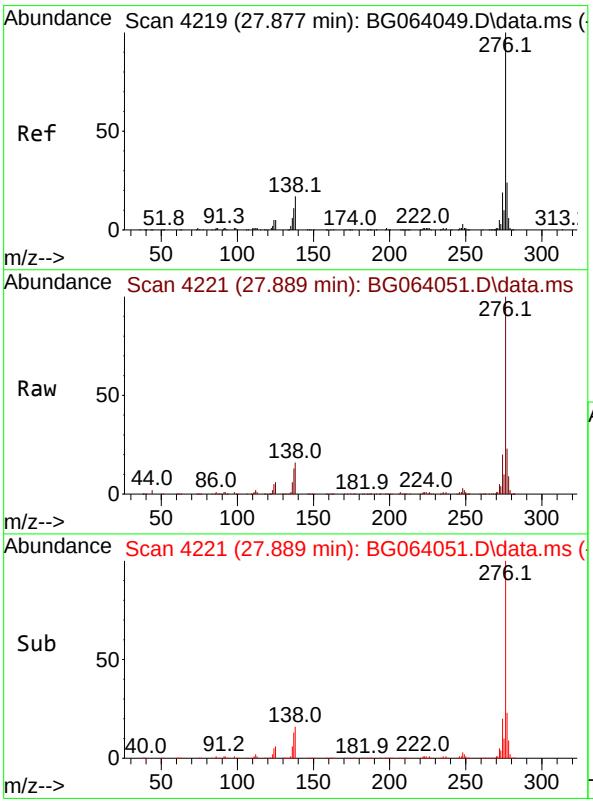
Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.6	29.4
265	20.6	16.6	25.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

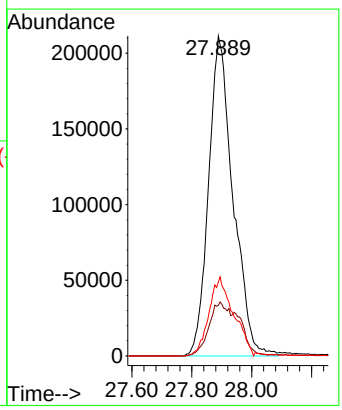
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

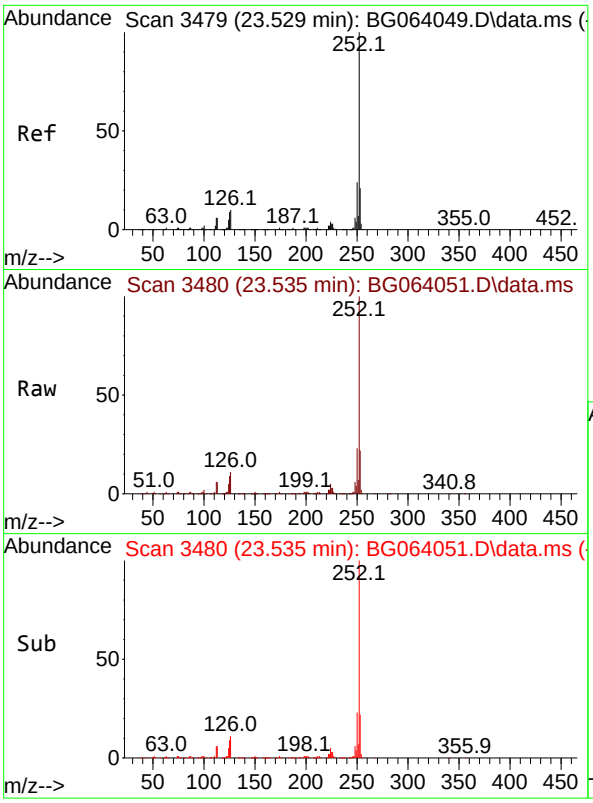


#87
Indeno(1,2,3-cd)pyrene
Concen: 61.921 ng
RT: 27.889 min Scan# 4221
Delta R.T. 0.012 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:276 Resp: 1198276

Ion	Ratio	Lower	Upper
276	100		
138	14.4	12.1	18.1
277	24.8	20.0	30.0

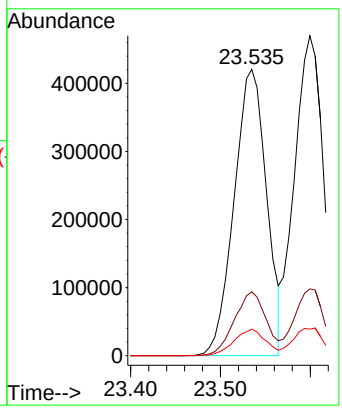




#88
Benzo(b)fluoranthene
Concen: 60.290 ng
RT: 23.535 min Scan# 34
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:252 Resp: 105417

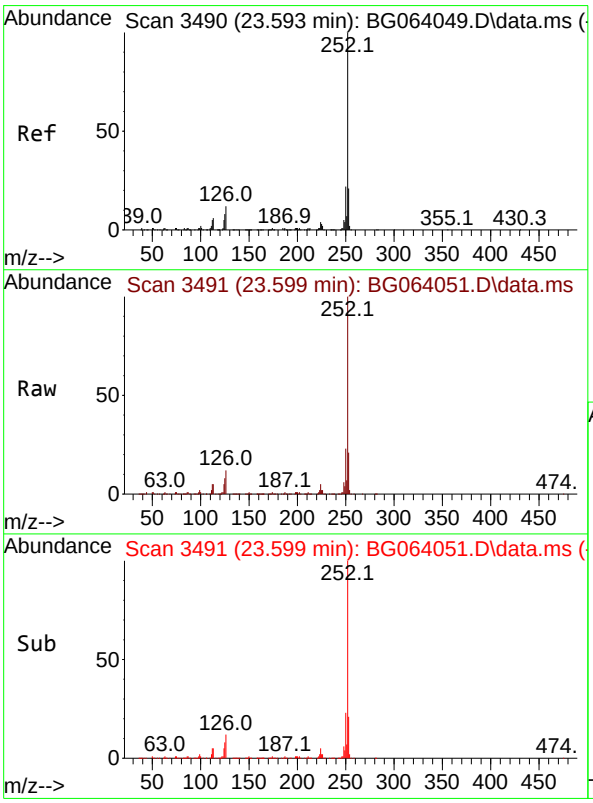
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.4
125	9.3	7.4	11.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

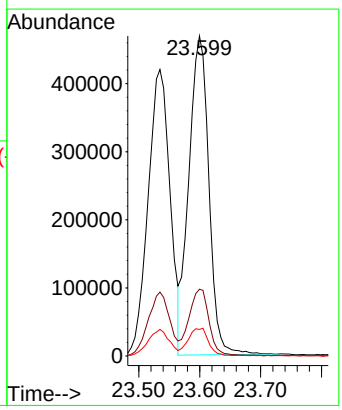
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

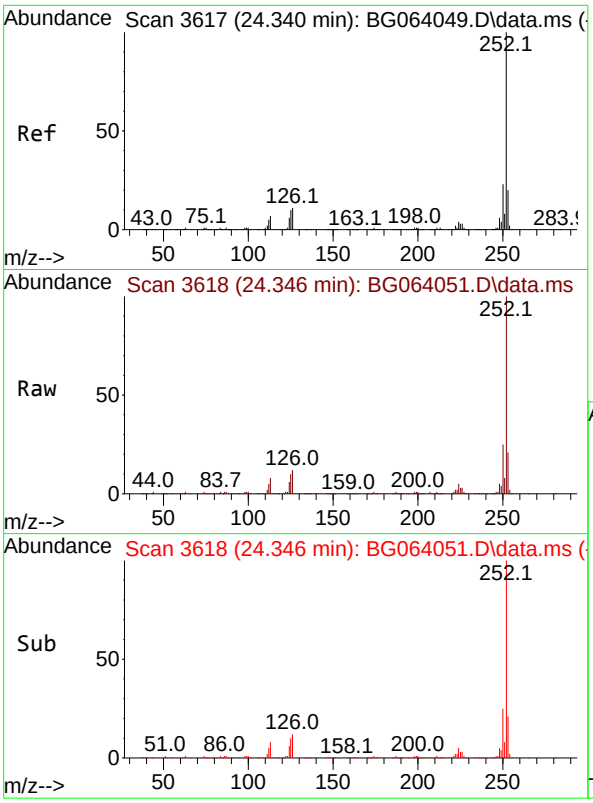


#89
Benzo(k)fluoranthene
Concen: 61.033 ng
RT: 23.599 min Scan# 3491
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:252 Resp: 1070595

Ion	Ratio	Lower	Upper
252	100		
253	20.8	16.8	25.2
125	8.3	6.9	10.3

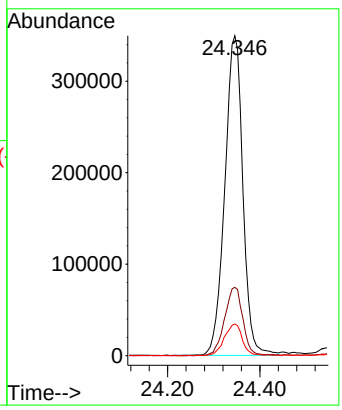




#90
Benzo(a)pyrene
Concen: 60.853 ng
RT: 24.346 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:252 Resp: 94760

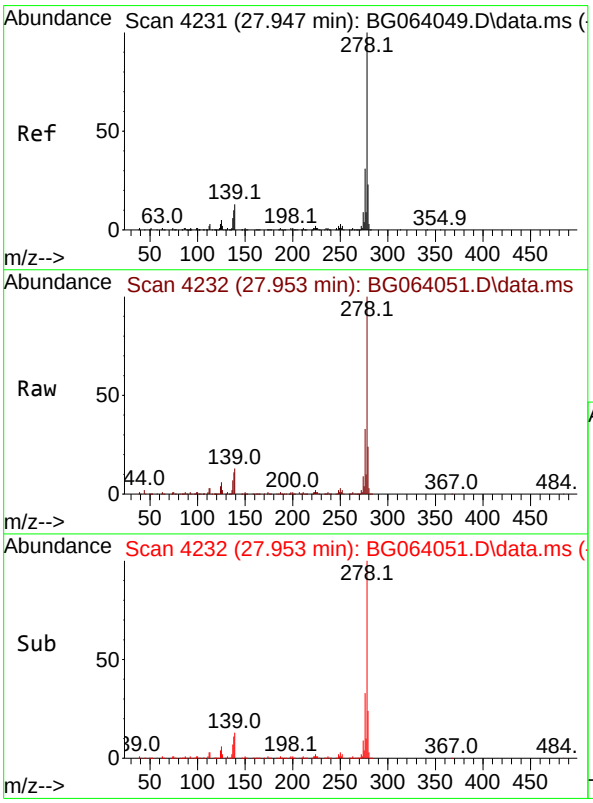
Ion	Ratio	Lower	Upper
252	100		
253	21.4	16.2	24.2
125	9.9	7.8	11.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

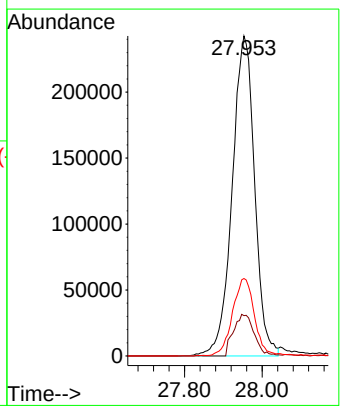
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

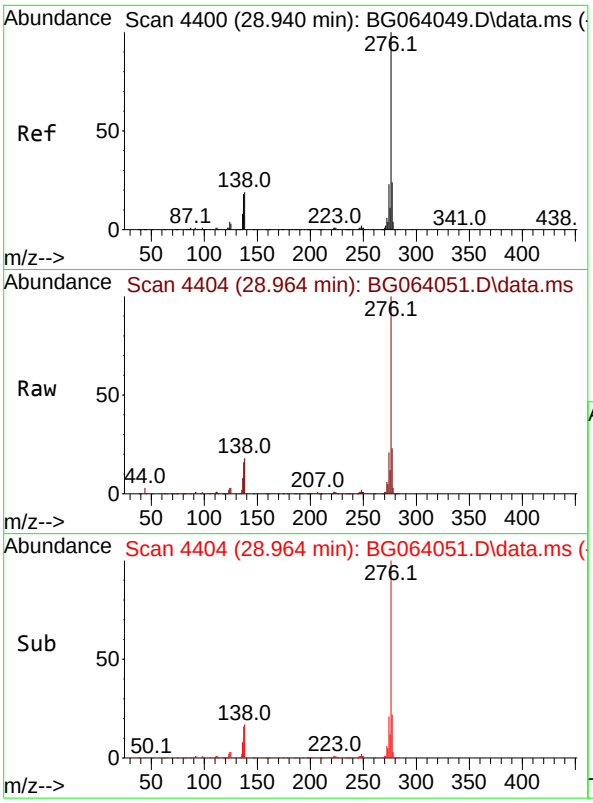


#91
Dibenzo(a,h)anthracene
Concen: 60.728 ng
RT: 27.953 min Scan# 4232
Delta R.T. 0.006 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:278 Resp: 974276

Ion	Ratio	Lower	Upper
278	100		
139	12.6	10.2	15.2
279	24.2	18.1	27.1

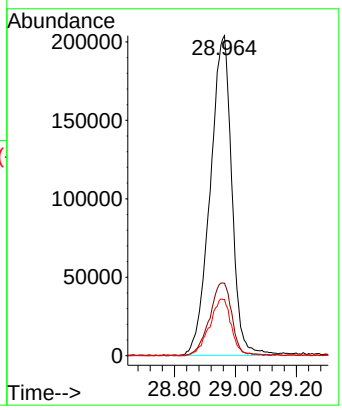




#92
Benzo(g,h,i)perylene
Concen: 60.851 ng
RT: 28.964 min Scan# 4
Delta R.T. 0.024 min
Lab File: BG064051.D
Acq: 5 Mar 2025 13:04

Tgt Ion:276 Resp: 100233

Ion	Ratio	Lower	Upper
276	100		
277	22.6	19.5	29.3
138	17.6	15.4	23.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064052.D
Acq On : 5 Mar 2025 13:44
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.865	152	38973	20.000	ng		0.00
21) Naphthalene-d8	10.656	136	174562	20.000	ng		0.00
39) Acenaphthene-d10	14.493	164	119753	20.000	ng		0.00
64) Phenanthrene-d10	17.231	188	261353	20.000	ng		0.00
76) Chrysene-d12	21.467	240	257789	20.000	ng		0.00
86) Perylene-d12	24.481	264	274554	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.456	112	406682	162.936	ng		0.00
7) Phenol-d6	7.037	99	562221	165.580	ng		0.00
23) Nitrobenzene-d5	9.029	82	570757	180.687	ng		0.01
42) 2,4,6-Tribromophenol	15.979	330	230590	173.228	ng		0.00
45) 2-Fluorobiphenyl	13.118	172	1198476	151.908	ng		0.00
79) Terphenyl-d14	19.857	244	1912762	150.030	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.376	88	86434	76.411	ng		97
3) Pyridine	3.770	79	194608	70.740	ng		99
4) n-Nitrosodimethylamine	3.682	42	166554	84.738	ng		98
6) Aniline	7.196	93	260509	78.188	ng		97
8) 2-Chlorophenol	7.436	128	221296	82.552	ng		96
10) Phenol	7.066	94	287854	82.802	ng		97
11) bis(2-Chloroethyl)ether	7.295	93	217240	79.707	ng		99
12) 1,3-Dichlorobenzene	7.760	146	235126	79.873	ng		96
13) 1,4-Dichlorobenzene	7.901	146	238817	79.149	ng		96
14) 1,2-Dichlorobenzene	8.224	146	233348	80.201	ng		97
15) Benzyl Alcohol	8.106	79	227176	86.581	ng		94
16) 2,2'-oxybis(1-Chloropr...	8.400	45	502220	81.950	ng		99
17) 2-Methylphenol	8.306	107	198161	85.886	ng		98
18) Hexachloroethane	8.946	117	90416	85.647	ng		98
19) n-Nitroso-di-n-propyla...	8.682	70	197732	82.978	ng		96
20) 3+4-Methylphenols	8.641	107	269552	84.861	ng		92
22) Acetophenone	8.688	105	379097	79.207	ng		99
24) Nitrobenzene	9.064	77	285702	87.518	ng		99
25) Isophorone	9.593	82	507481	80.266	ng		96
26) 2-Nitrophenol	9.769	139	102389	79.399	ng		96
27) 2,4-Dimethylphenol	9.834	122	159995	84.413	ng		94
28) bis(2-Chloroethoxy)met...	10.074	93	310803	81.082	ng		99
29) 2,4-Dichlorophenol	10.304	162	208425	87.086	ng		98
30) 1,2,4-Trichlorobenzene	10.521	180	231572	80.151	ng		99
31) Naphthalene	10.709	128	752327	79.925	ng		99
32) Benzoic acid	10.022	122	153536m	81.016	ng		
33) 4-Chloroaniline	10.815	127	281930	81.948	ng		100
34) Hexachlorobutadiene	10.997	225	152146	80.341	ng		98
35) Caprolactam	11.608	113	77479	84.477	ng	#	82
36) 4-Chloro-3-methylphenol	11.937	107	262810	83.772	ng		100
37) 2-Methylnaphthalene	12.313	142	524206	78.886	ng		97
38) 1-Methylnaphthalene	12.536	142	511482	78.566	ng		98
40) 1,2,4,5-Tetrachloroben...	12.683	216	271079	79.289	ng		99
41) Hexachlorocyclopentadiene	12.671	237	87700	91.141	ng		95
43) 2,4,6-Trichlorophenol	12.924	196	175233	86.966	ng		97
44) 2,4,5-Trichlorophenol	12.995	196	197831	88.360	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064052.D
Acq On : 5 Mar 2025 13:44
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 05 15:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.329	154	706656	78.106	ng		98
47) 2-Chloronaphthalene	13.371	162	528541	80.099	ng		98
48) 2-Nitroaniline	13.570	65	195363	79.407	ng		97
49) Acenaphthylene	14.217	152	822307	78.787	ng		99
50) Dimethylphthalate	13.958	163	695598	78.689	ng		100
51) 2,6-Dinitrotoluene	14.070	165	147719	79.965	ng		98
52) Acenaphthene	14.557	154	540444	76.999	ng		97
53) 3-Nitroaniline	14.399	138	154723	90.561	ng		95
54) 2,4-Dinitrophenol	14.599	184	61808	82.400	ng	#	81
55) Dibenzofuran	14.892	168	874479	77.066	ng		99
56) 4-Nitrophenol	14.698	139	126982	88.621	ng		95
57) 2,4-Dinitrotoluene	14.857	165	203301	79.564	ng	#	97
58) Fluorene	15.539	166	668072	75.593	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.116	232	188307	86.273	ng	#	95
60) Diethylphthalate	15.321	149	758650	79.055	ng		99
61) 4-Chlorophenyl-phenyle...	15.539	204	326141	74.261	ng		91
62) 4-Nitroaniline	15.562	138	159478	86.459	ng		91
63) Azobenzene	15.832	77	787412	76.893	ng		99
65) 4,6-Dinitro-2-methylph...	15.615	198	100338	81.905	ng		96
66) n-Nitrosodiphenylamine	15.750	169	590976	79.884	ng		97
67) 4-Bromophenyl-phenylether	16.432	248	222258	83.033	ng		96
68) Hexachlorobenzene	16.543	284	240907	80.390	ng		98
70) Pentachlorophenol	16.884	266	170842	91.819	ng		98
71) Phenanthrene	17.278	178	1094187	78.492	ng		99
72) Anthracene	17.366	178	1099164	79.297	ng		97
73) Carbazole	17.636	167	999549	77.234	ng		99
74) Di-n-butylphthalate	18.206	149	1263186	82.920	ng		99
75) Fluoranthene	19.287	202	1276040	75.929	ng		99
77) Benzidine	19.463	184	279417	77.211	ng		99
78) Pyrene	19.646	202	1321748	79.539	ng		99
80) Butylbenzylphthalate	20.550	149	517770	80.379	ng		99
81) Benzo(a)anthracene	21.449	228	1325828	80.289	ng		98
82) 3,3'-Dichlorobenzidine	21.367	252	423636	79.269	ng		100
83) Chrysene	21.514	228	1291089	78.391	ng		99
84) Bis(2-ethylhexyl)phtha...	21.385	149	806194	90.273	ng		99
85) Di-n-octyl phthalate	22.530	149	1379517	89.556	ng		99
87) Indeno(1,2,3-cd)pyrene	27.895	276	1530546	83.318	ng		99
88) Benzo(b)fluoranthene	23.541	252	1356996	81.758	ng		98
89) Benzo(k)fluoranthene	23.606	252	1334083	80.120	ng		99
90) Benzo(a)pyrene	24.346	252	1200152	81.191	ng		97
91) Dibenzo(a,h)anthracene	27.959	278	1273882	83.647	ng		98
92) Benzo(g,h,i)perylene	28.970	276	1282909	82.048	ng		98

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

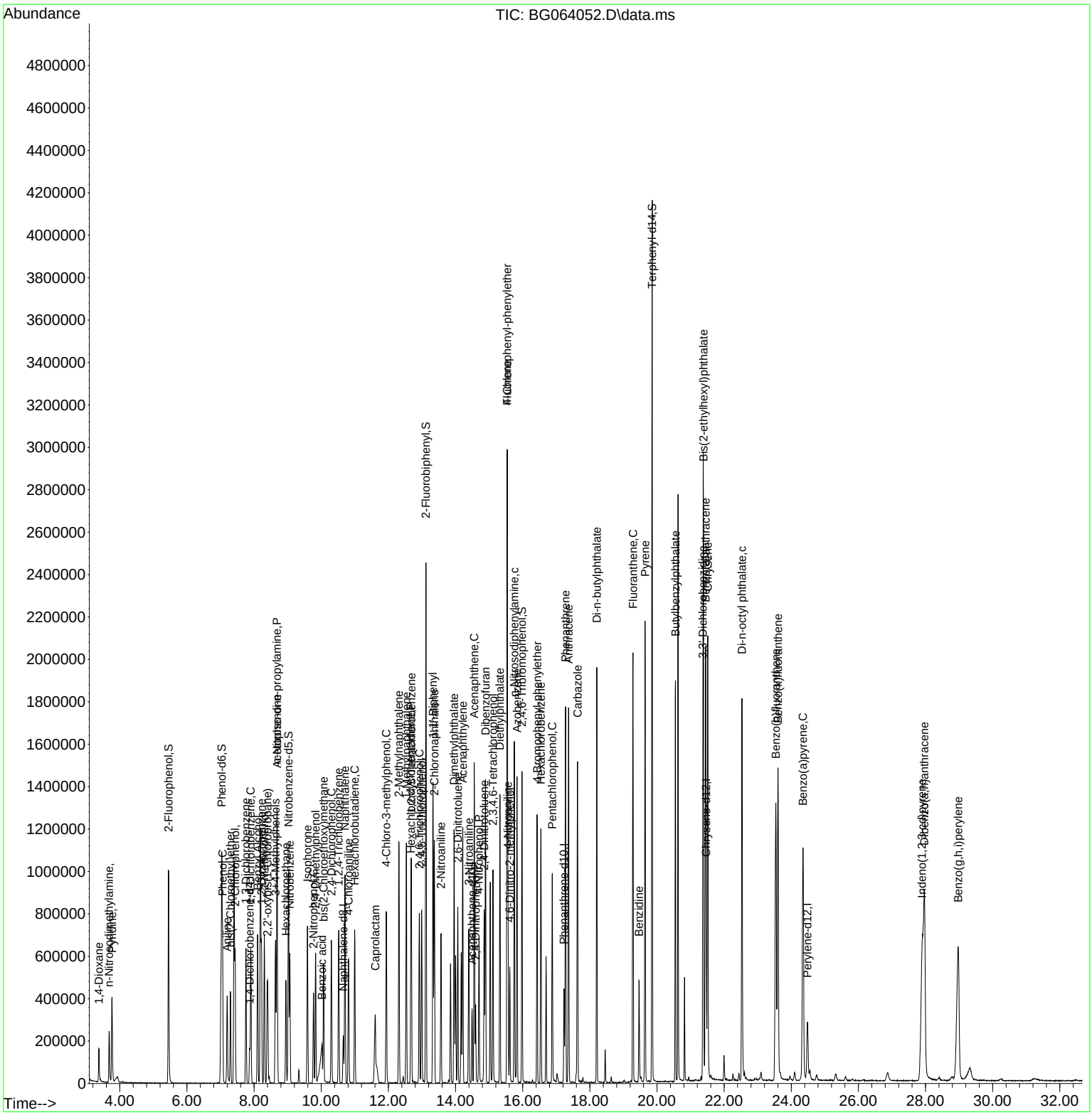
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064052.D
Acq On : 5 Mar 2025 13:44
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

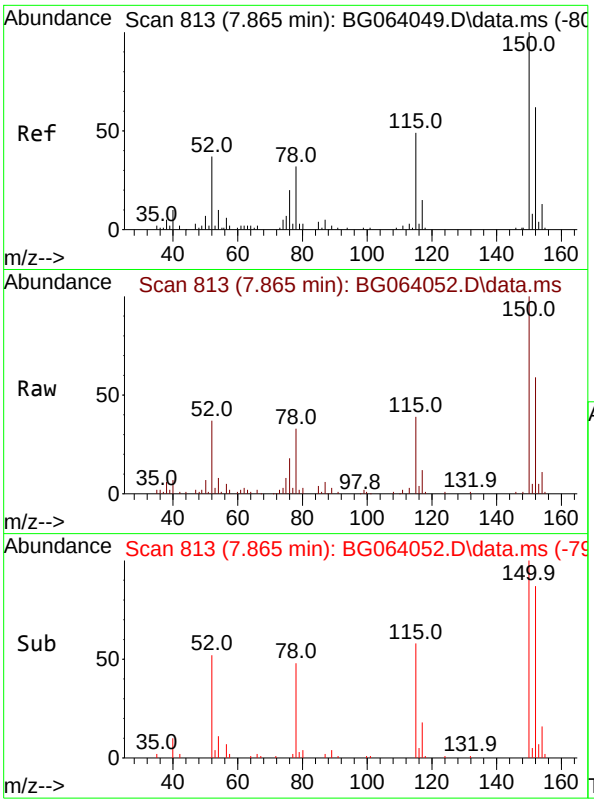
Quant Time: Mar 05 15:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 14:45:06 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

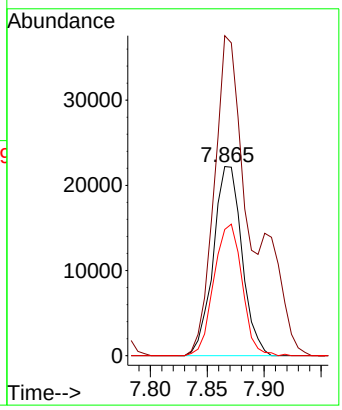




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.865 min Scan# 81
Delta R.T. 0.000 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:152 Resp: 3897

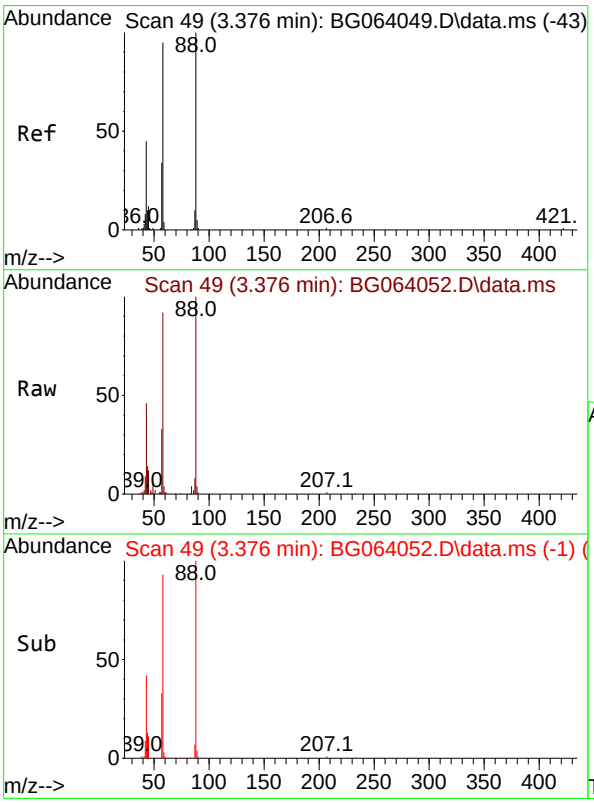
Ion	Ratio	Lower	Upper
152	100		
150	169.1	129.2	193.8
115	66.7	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

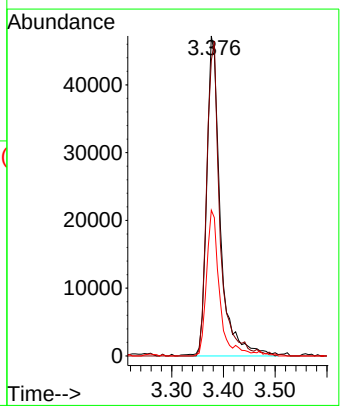
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

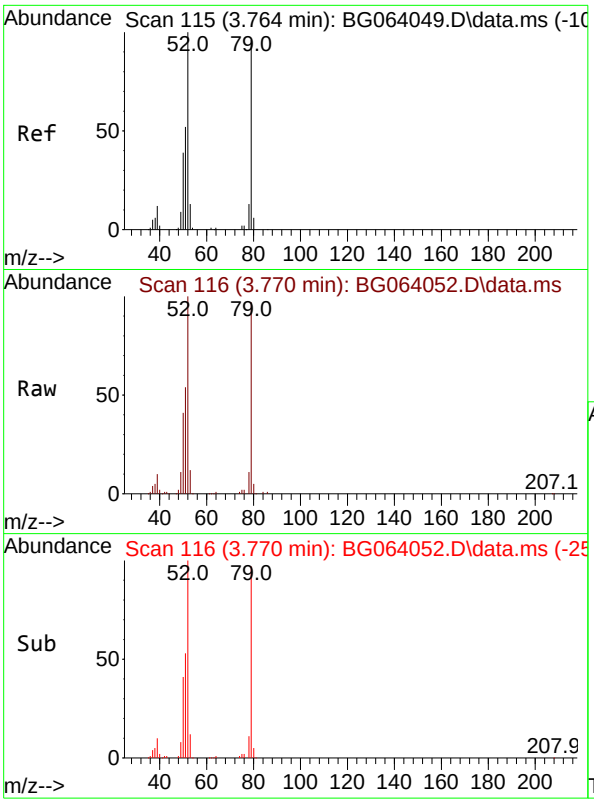


#2
1,4-Dioxane
Concen: 76.411 ng
RT: 3.376 min Scan# 49
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 88 Resp: 86434

Ion	Ratio	Lower	Upper
88	100		
58	95.8	74.6	111.8
43	43.0	35.5	53.3

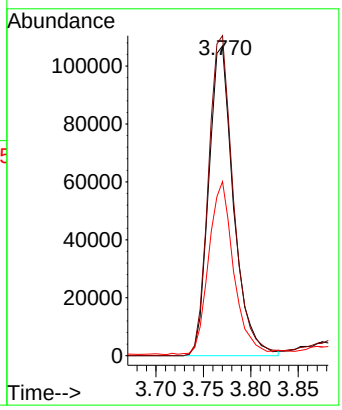




#3
Pyridine
Concen: 70.740 ng
RT: 3.770 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 79 Resp: 19460

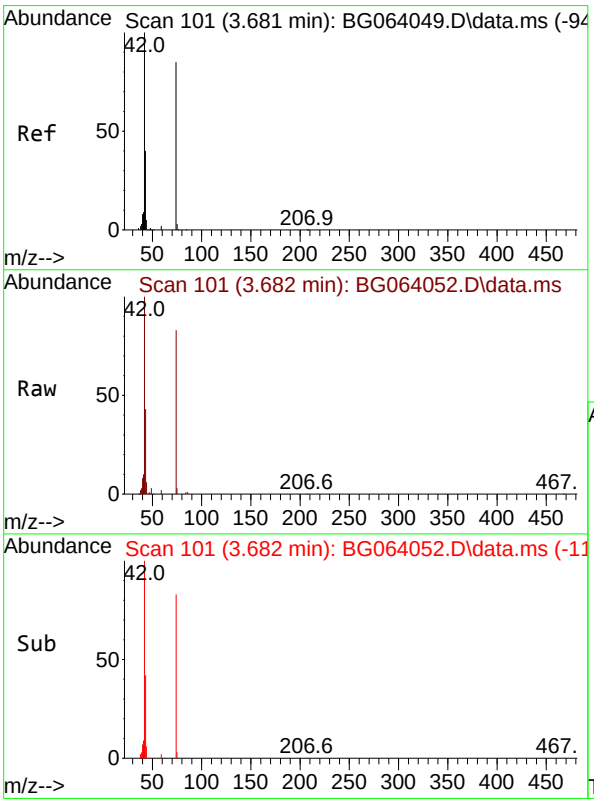
Ion	Ratio	Lower	Upper
79	100		
52	103.3	83.0	124.6
51	56.2	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

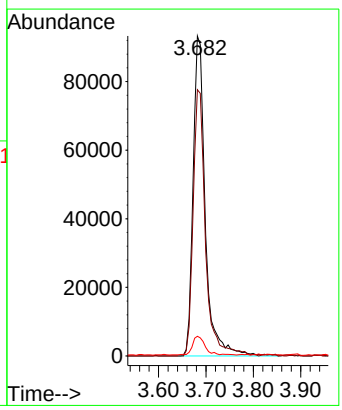
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

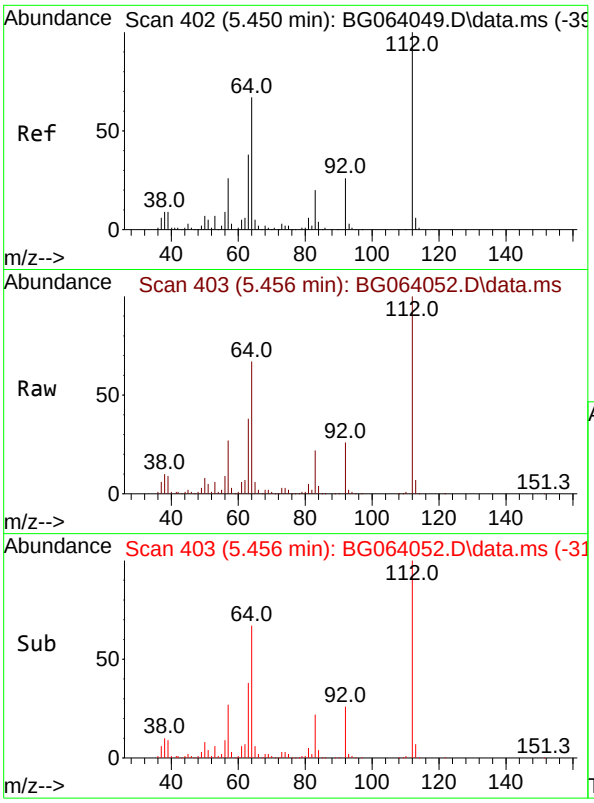


#4
n-Nitrosodimethylamine
Concen: 84.738 ng
RT: 3.682 min Scan# 101
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 42 Resp: 166554

Ion	Ratio	Lower	Upper
42	100		
74	83.2	68.0	102.0
44	6.2	4.9	7.3

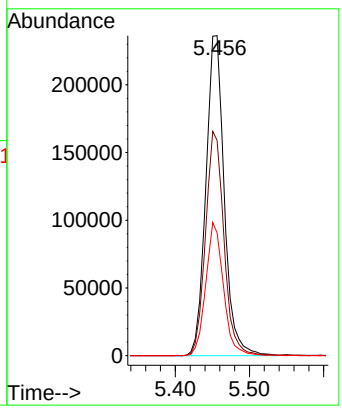




#5
2-Fluorophenol
Concen: 162.936 ng
RT: 5.456 min Scan# 4
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:112 Resp: 40668

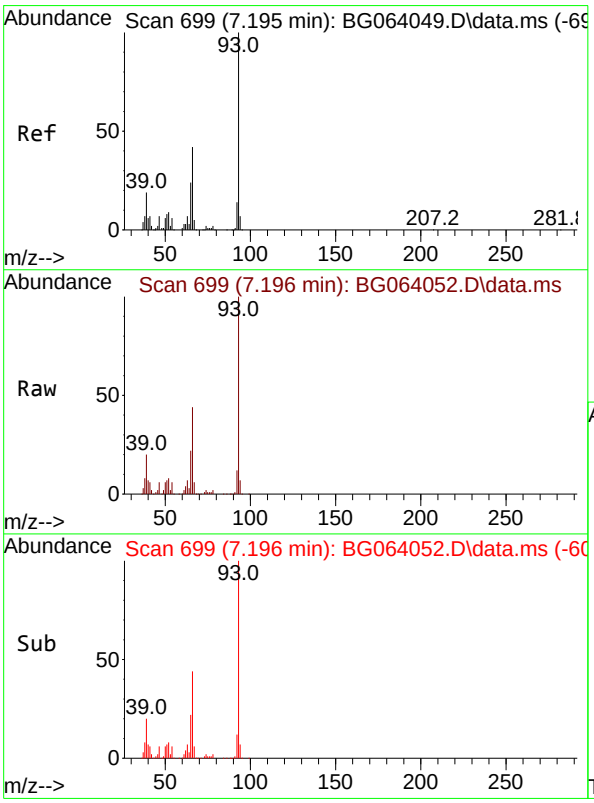
Ion	Ratio	Lower	Upper
112	100		
64	67.3	53.7	80.5
63	38.4	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

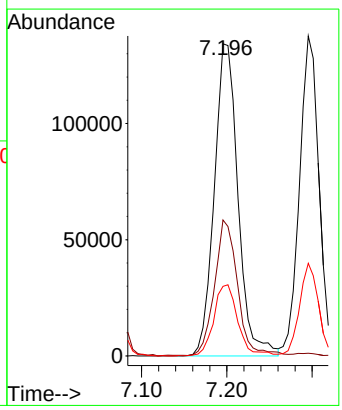
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

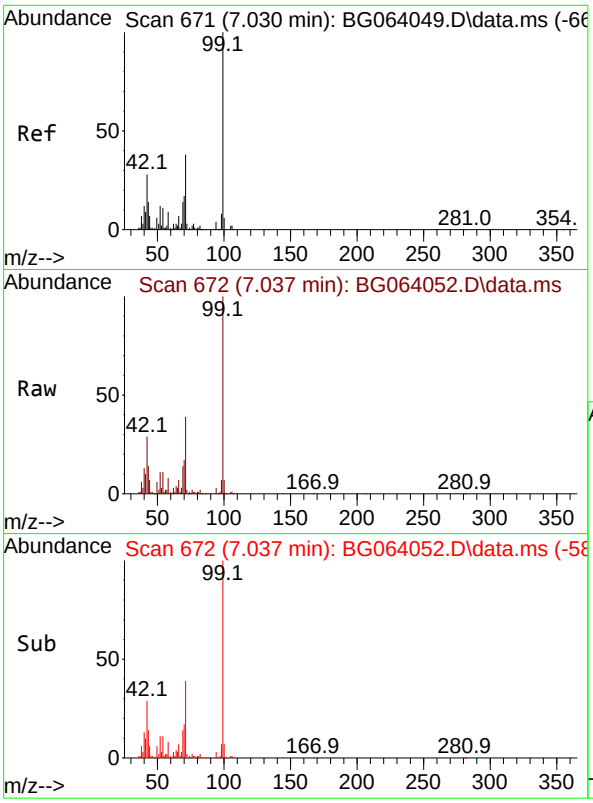


#6
Aniline
Concen: 78.188 ng
RT: 7.196 min Scan# 699
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 93 Resp: 260509

Ion	Ratio	Lower	Upper
93	100		
66	43.6	33.7	50.5
65	22.3	19.1	28.7

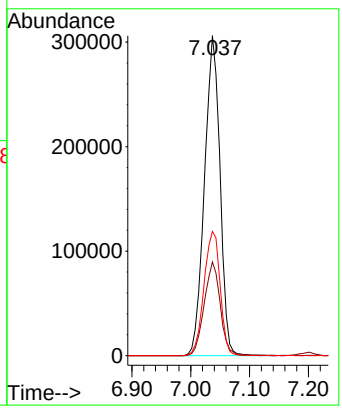




#7
Phenol-d6
Concen: 165.580 ng
RT: 7.037 min Scan# 6
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 99 Resp: 56222

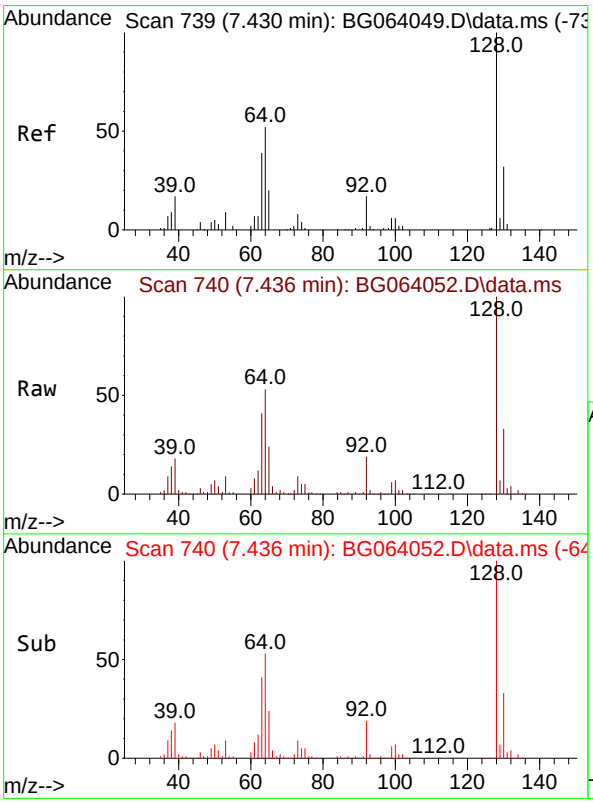
Ion	Ratio	Lower	Upper
99	100		
42	29.3	22.7	34.1
71	38.9	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

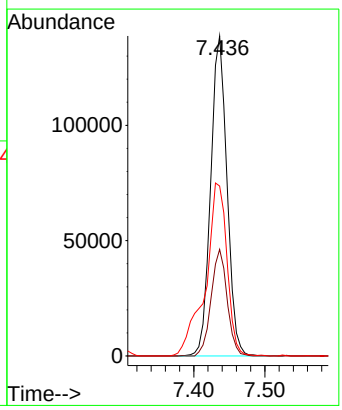
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

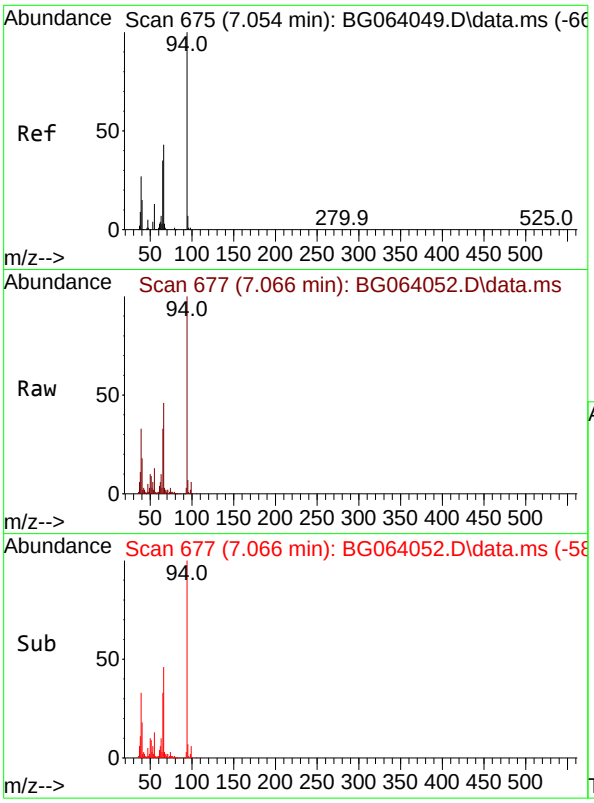


#8
2-Chlorophenol
Concen: 82.552 ng
RT: 7.436 min Scan# 740
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:128 Resp: 221296

Ion	Ratio	Lower	Upper
128	100		
130	33.3	12.3	52.3
64	53.1	37.0	77.0

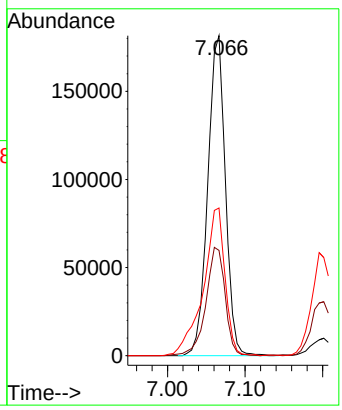




#10
Phenol
Concen: 82.802 ng
RT: 7.066 min Scan# 6
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 94 Resp: 28785

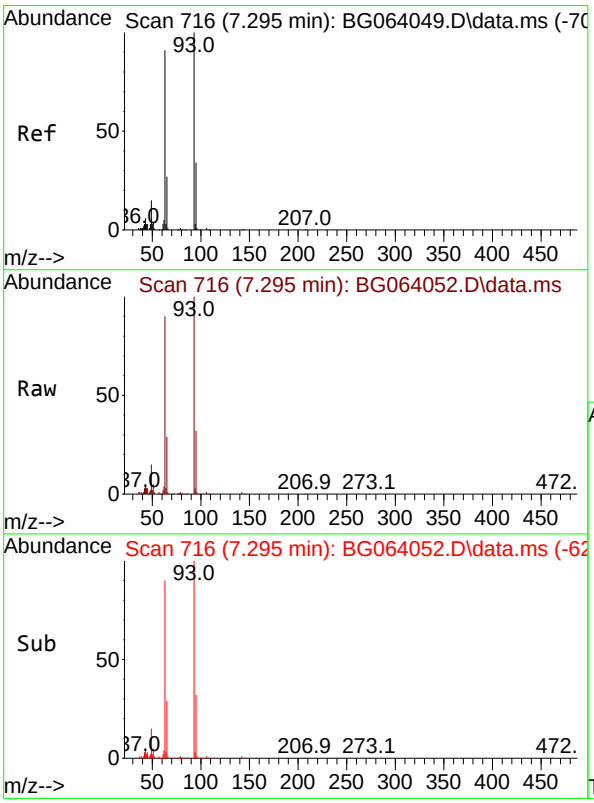
Ion	Ratio	Lower	Upper
94	100		
65	32.9	15.2	55.2
66	46.1	25.1	65.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

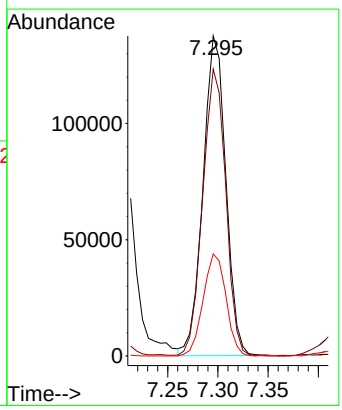
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

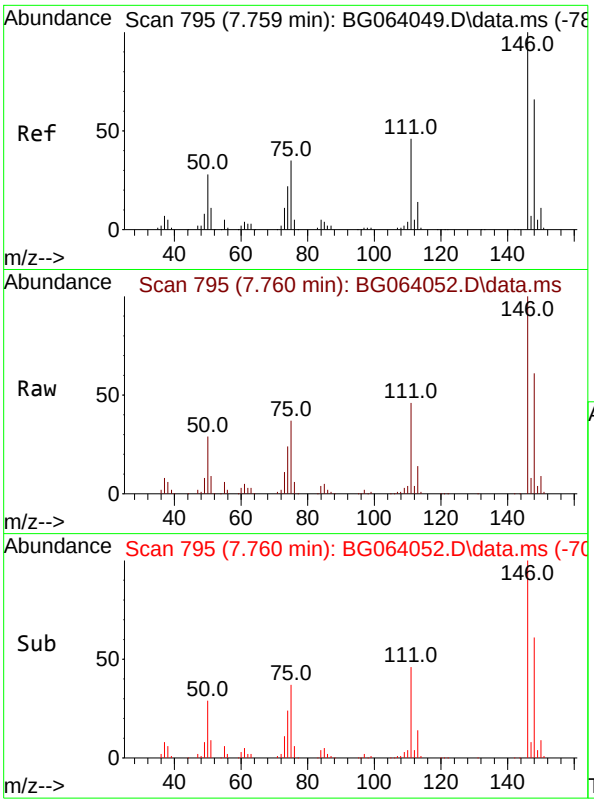


#11
bis(2-Chloroethyl)ether
Concen: 79.707 ng
RT: 7.295 min Scan# 716
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 93 Resp: 217240

Ion	Ratio	Lower	Upper
93	100		
63	89.6	70.0	110.0
95	31.9	13.7	53.7

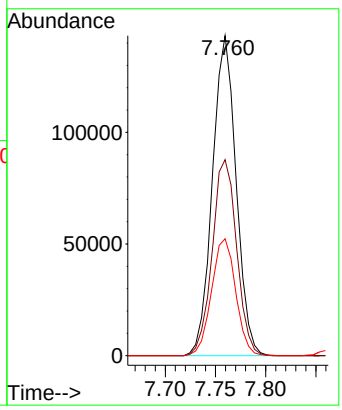




#12
1,3-Dichlorobenzene
Concen: 79.873 ng
RT: 7.760 min Scan# 7
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:146 Resp: 23512

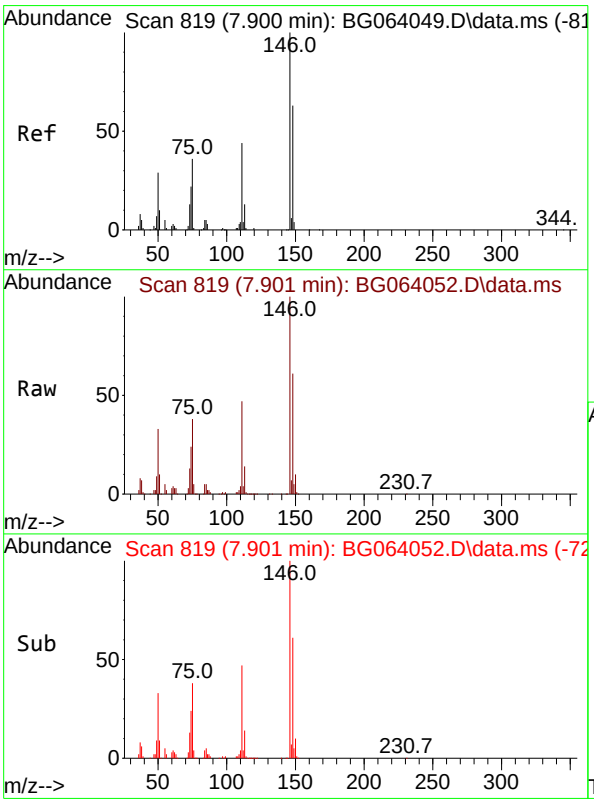
Ion	Ratio	Lower	Upper
146	100		
148	61.3	52.6	78.8
75	36.5	28.1	42.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

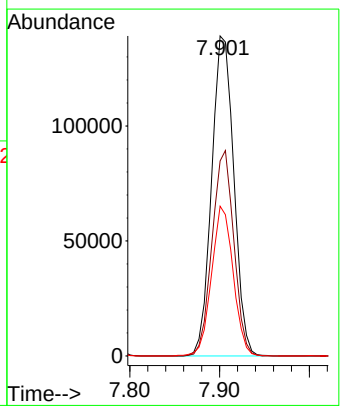
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

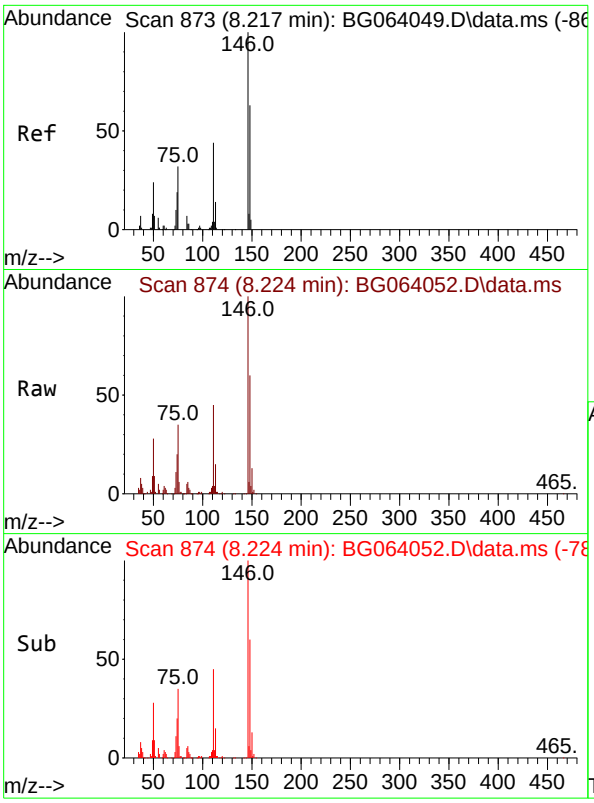


#13
1,4-Dichlorobenzene
Concen: 79.149 ng
RT: 7.901 min Scan# 819
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:146 Resp: 238817

Ion	Ratio	Lower	Upper
146	100		
148	60.9	50.6	75.8
111	46.8	35.1	52.7

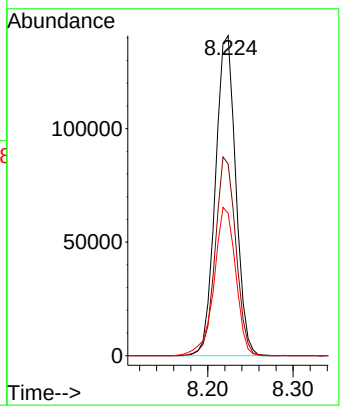




#14
1,2-Dichlorobenzene
Concen: 80.201 ng
RT: 8.224 min Scan# 8
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:146 Resp: 23334

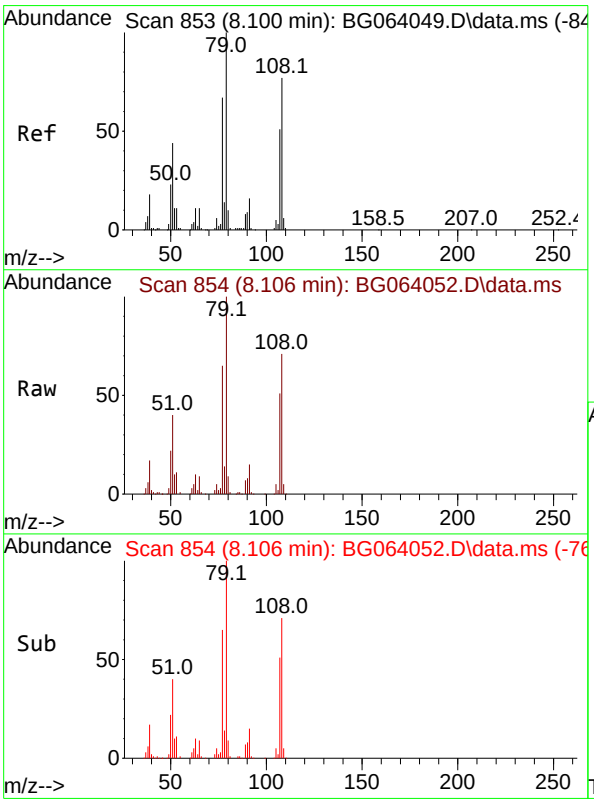
Ion	Ratio	Lower	Upper
146	100		
148	60.0	50.2	75.2
111	44.5	36.4	54.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

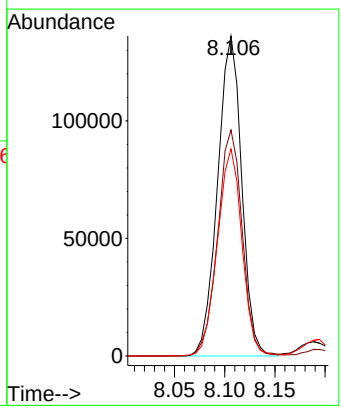
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

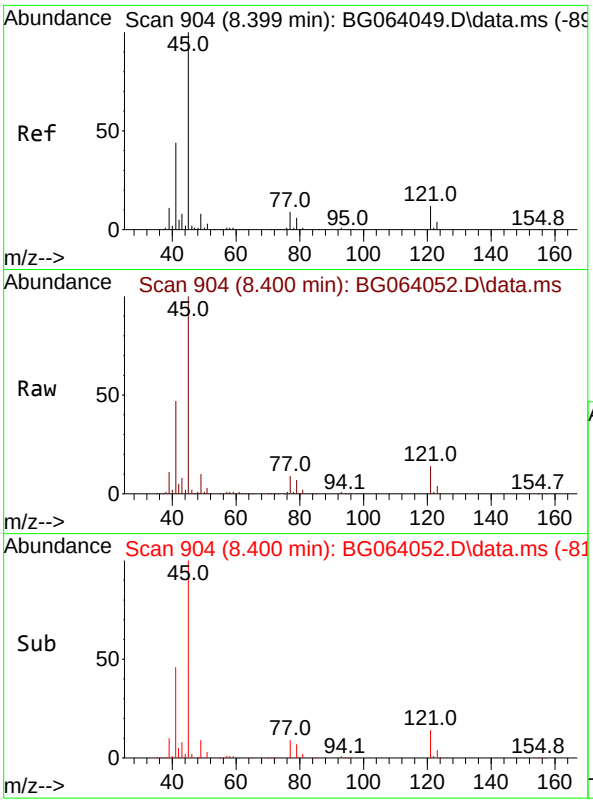


#15
Benzyl Alcohol
Concen: 86.581 ng
RT: 8.106 min Scan# 854
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 79 Resp: 227176

Ion	Ratio	Lower	Upper
79	100		
108	70.6	61.7	92.5
77	64.7	53.9	80.9





#16
2,2'-oxybis(1-Chloropropane)
Concen: 81.950 ng
RT: 8.400 min Scan# 9(
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

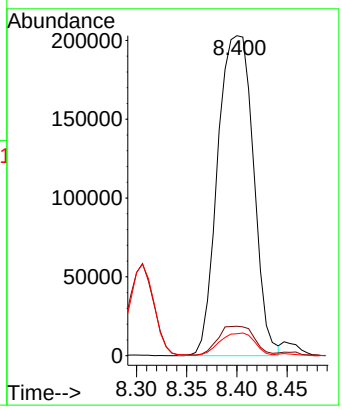
Tgt Ion: 45 Resp: 50222(

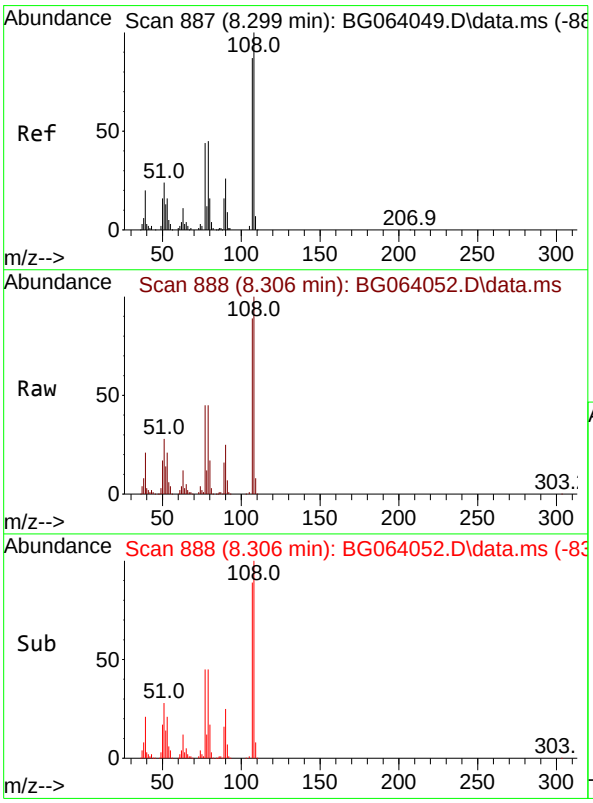
Ion	Ratio	Lower	Upper
45	100		
77	9.2	0.0	29.0
79	6.9	0.0	26.6

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

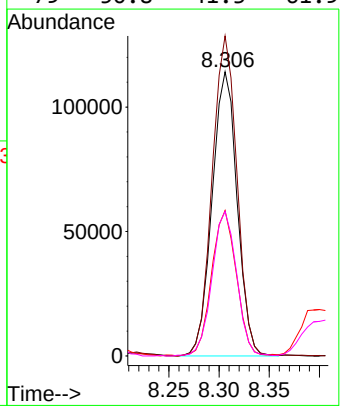


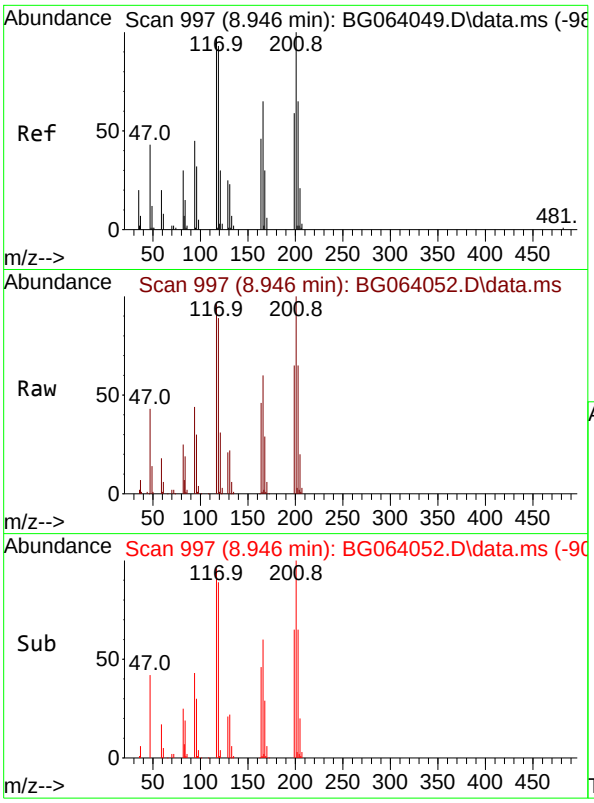


#17
2-Methylphenol
Concen: 85.886 ng
RT: 8.306 min Scan# 888
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:107 Resp: 198161

Ion	Ratio	Lower	Upper
107	100		
108	112.6	92.5	138.7
77	51.2	40.5	60.7
79	50.8	41.3	61.9

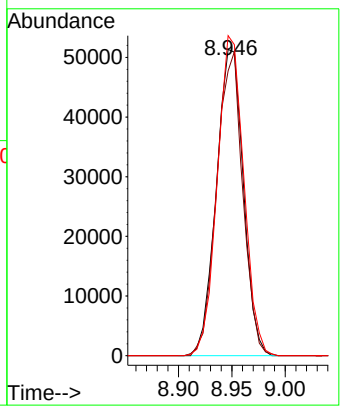




#18
Hexachloroethane
Concen: 85.647 ng
RT: 8.946 min Scan# 9
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:117 Resp: 9041

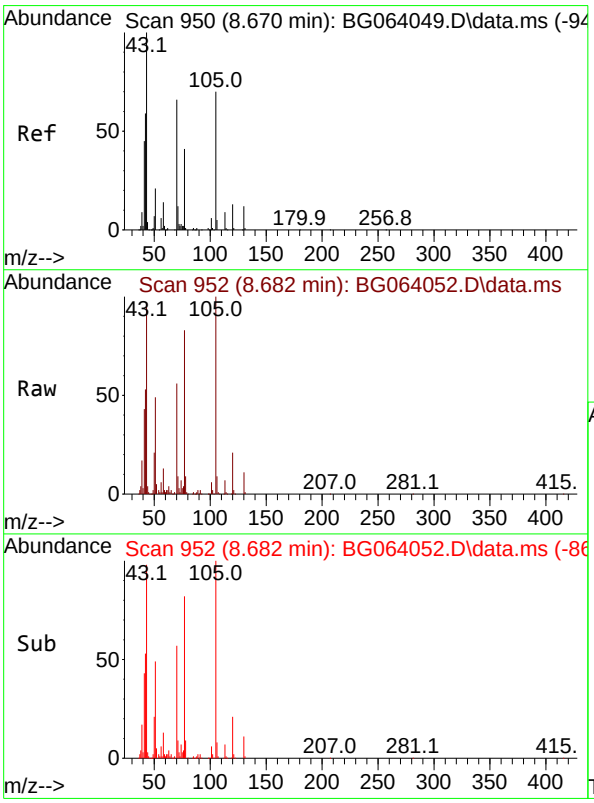
Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.2	114.2
201	104.5	81.5	122.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

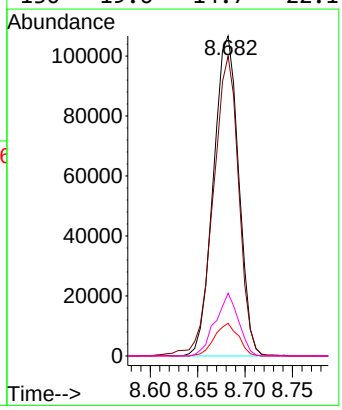
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

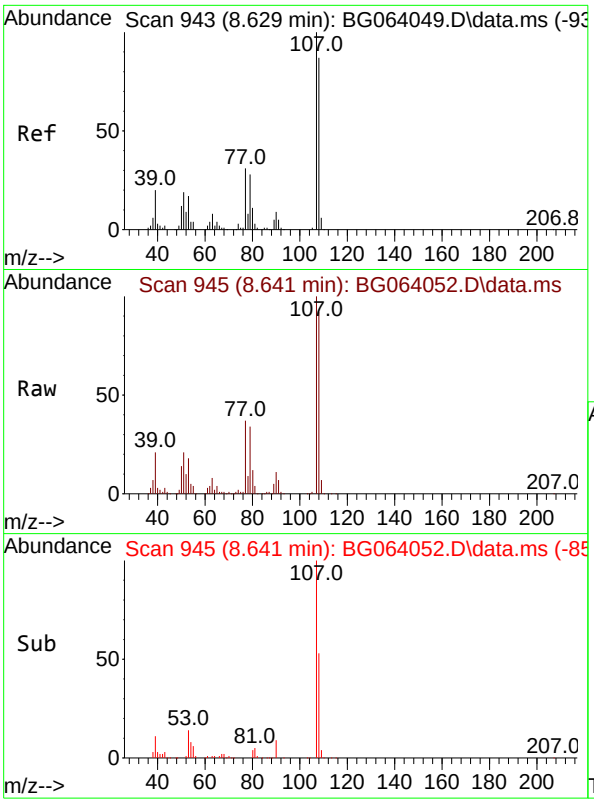


#19
n-Nitroso-di-n-propylamine
Concen: 82.978 ng
RT: 8.682 min Scan# 952
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 70 Resp: 197732

Ion	Ratio	Lower	Upper
70	100		
42	93.7	72.1	108.1
101	10.2	7.2	10.8
130	19.6	14.7	22.1

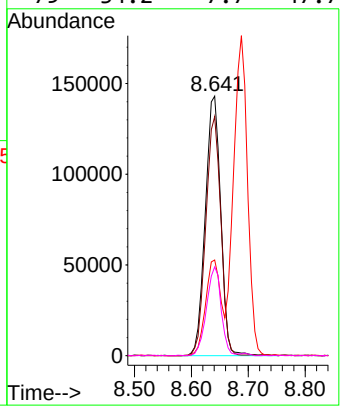




#20
3+4-Methylphenols
Concen: 84.861 ng
RT: 8.641 min Scan# 94
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:107 Resp: 26955

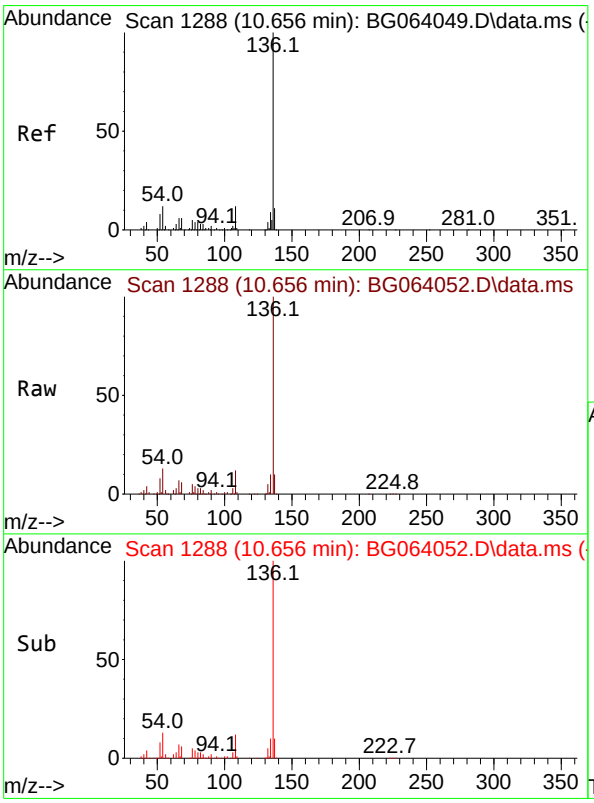
Ion	Ratio	Lower	Upper
107	100		
108	92.1	67.0	107.0
77	36.9	11.2	51.2
79	34.2	7.7	47.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

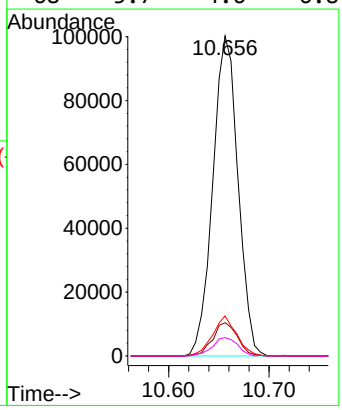
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

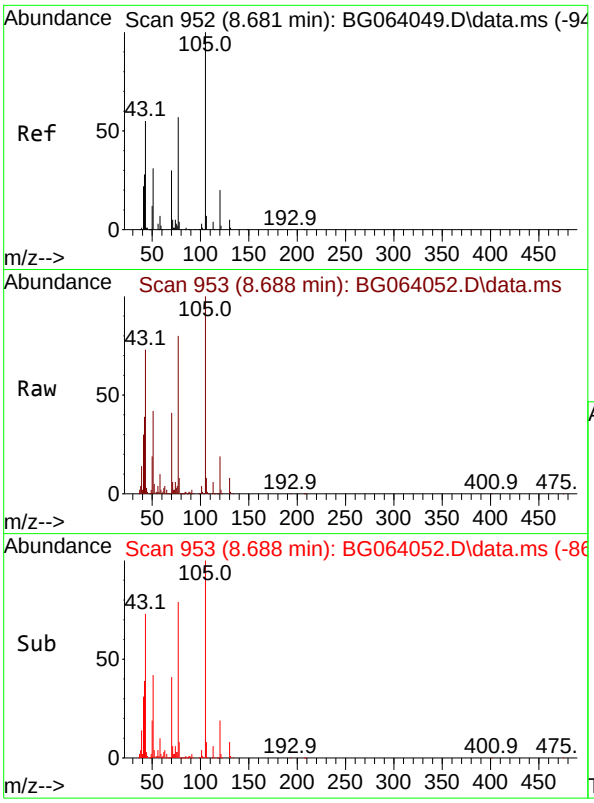


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.656 min Scan# 1288
Delta R.T. 0.000 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:136 Resp: 174562

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.5	12.7
54	12.5	9.9	14.9
68	5.7	4.6	6.8

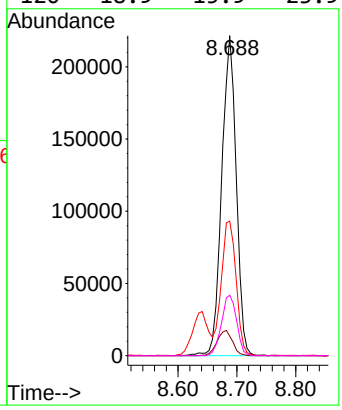




#22
Acetophenone
Concen: 79.207 ng
RT: 8.688 min Scan# 9
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:105 Resp: 37909

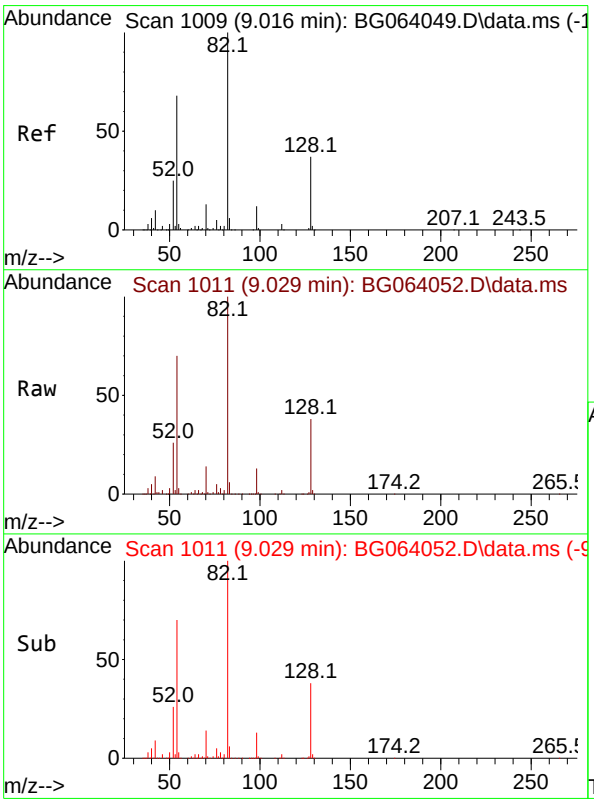
Ion	Ratio	Lower	Upper
105	100		
71	6.1	4.2	6.4
51	42.1	33.3	49.9
120	18.9	15.9	23.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

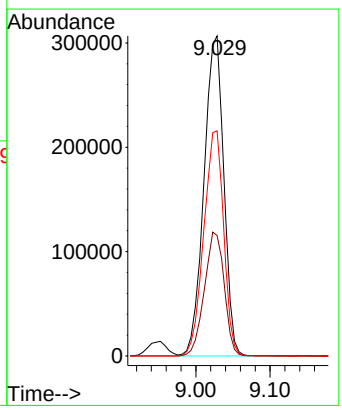
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

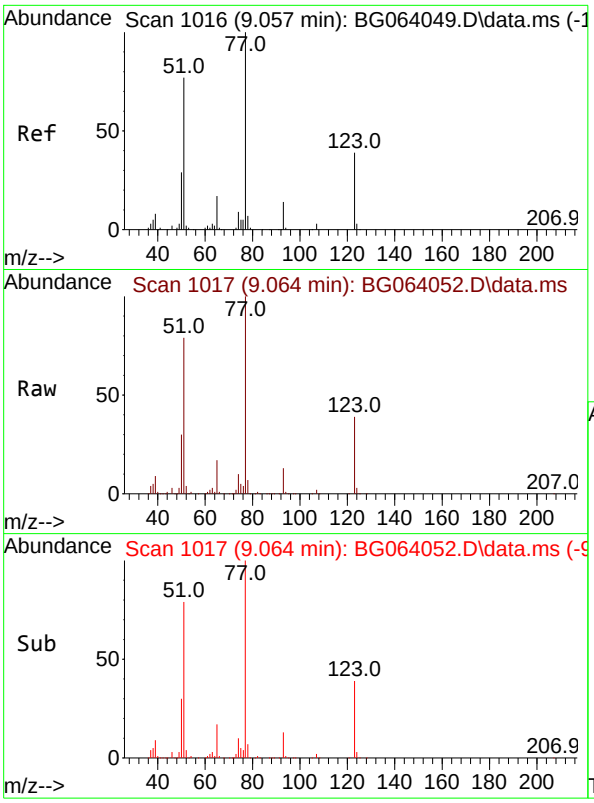


#23
Nitrobenzene-d5
Concen: 180.687 ng
RT: 9.029 min Scan# 1011
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 82 Resp: 570757

Ion	Ratio	Lower	Upper
82	100		
128	37.7	30.0	45.0
54	70.4	54.7	82.1

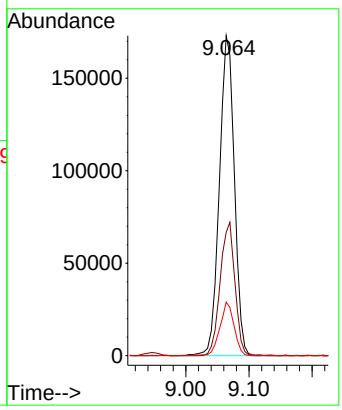




#24
Nitrobenzene
Concen: 87.518 ng
RT: 9.064 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 77 Resp: 28570

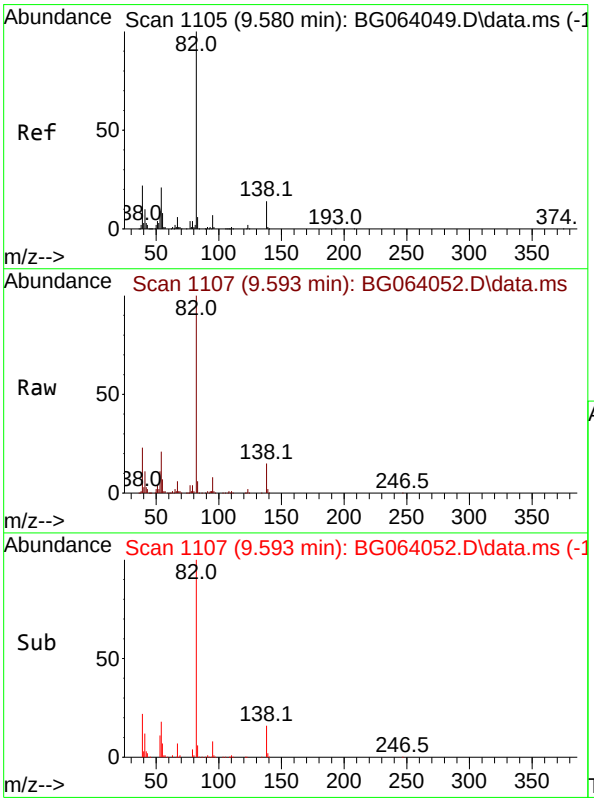
Ion	Ratio	Lower	Upper
77	100		
123	38.5	31.4	47.2
65	16.8	13.4	20.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

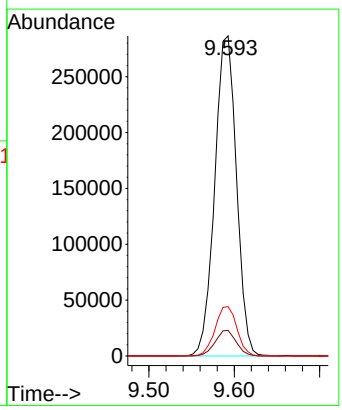
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

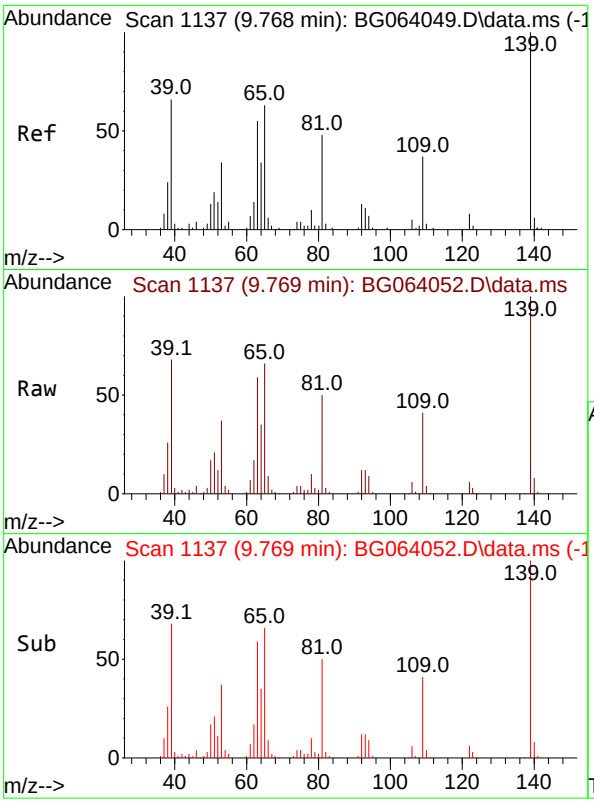


#25
Isophorone
Concen: 80.266 ng
RT: 9.593 min Scan# 1107
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 82 Resp: 507481

Ion	Ratio	Lower	Upper
82	100		
95	8.0	5.8	8.8
138	15.4	10.9	16.3

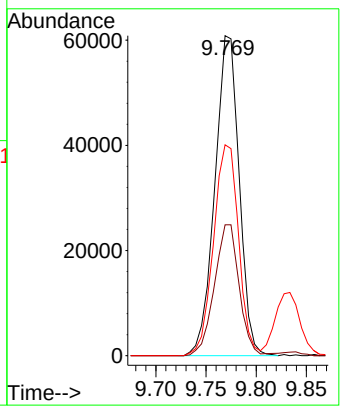




#26
2-Nitrophenol
Concen: 79.399 ng
RT: 9.769 min Scan# 11
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:139 Resp: 10238

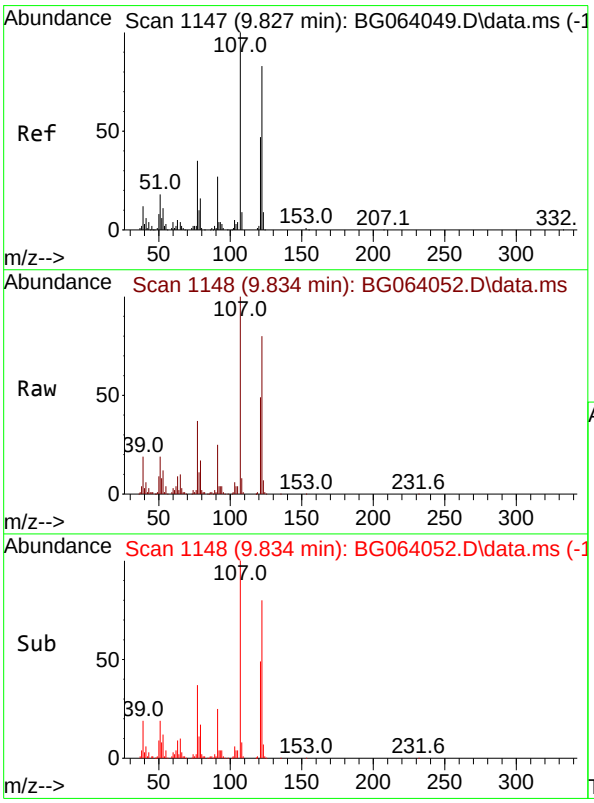
Ion	Ratio	Lower	Upper
139	100		
109	40.9	29.9	44.9
65	65.9	50.6	76.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

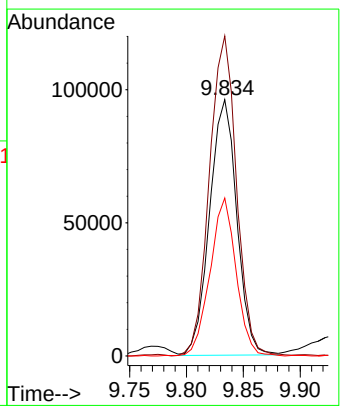
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

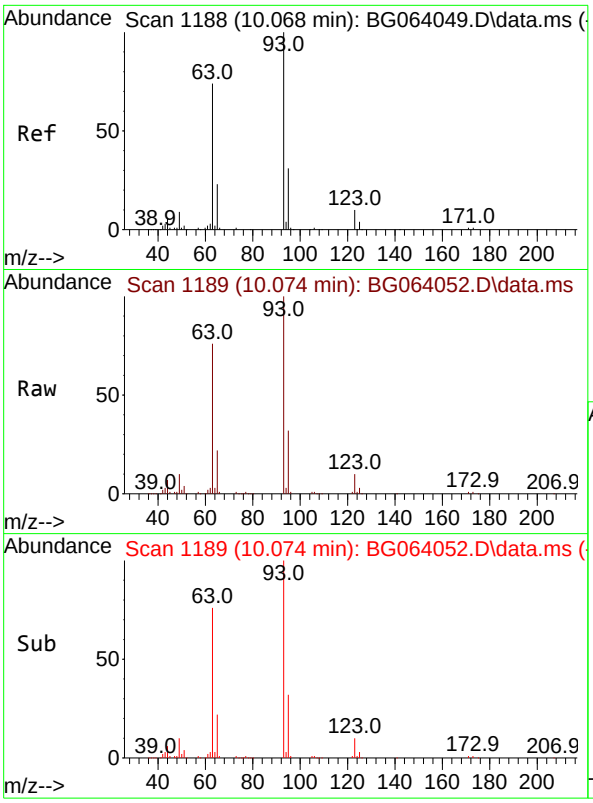


#27
2,4-Dimethylphenol
Concen: 84.413 ng
RT: 9.834 min Scan# 1148
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:122 Resp: 159995

Ion	Ratio	Lower	Upper
122	100		
107	124.9	95.4	143.0
121	61.6	44.9	67.3

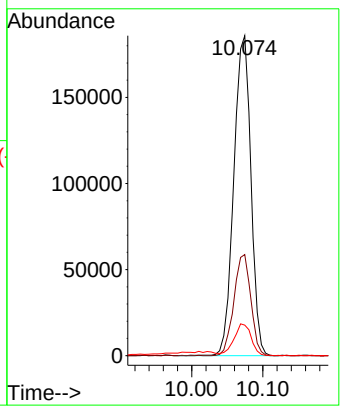




#28
bis(2-Chloroethoxy)methane
Concen: 81.082 ng
RT: 10.074 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 93 Resp: 31080

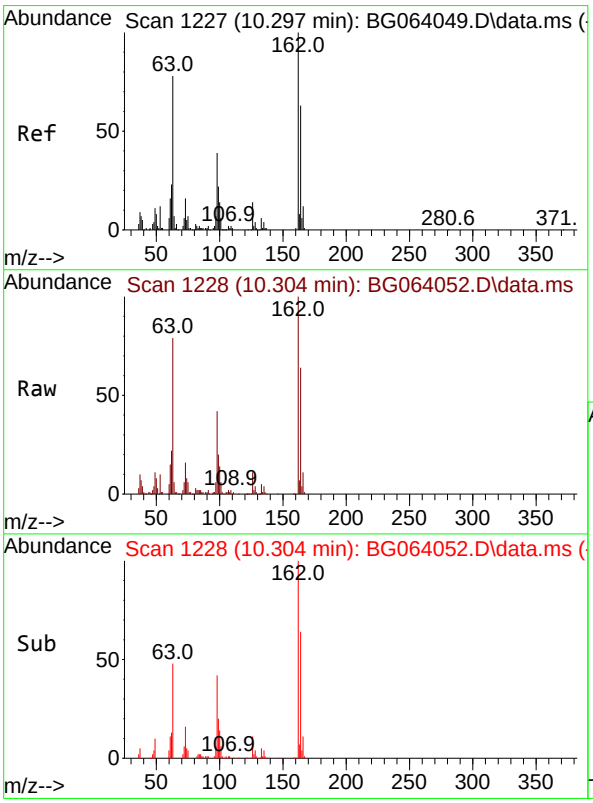
Ion	Ratio	Lower	Upper
93	100		
95	31.6	25.0	37.4
123	9.5	7.6	11.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

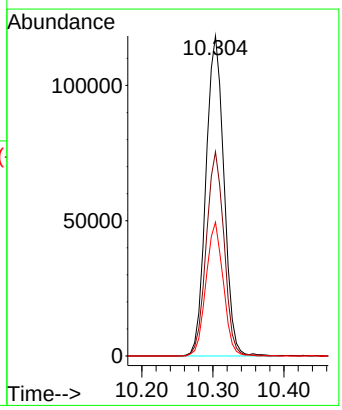
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

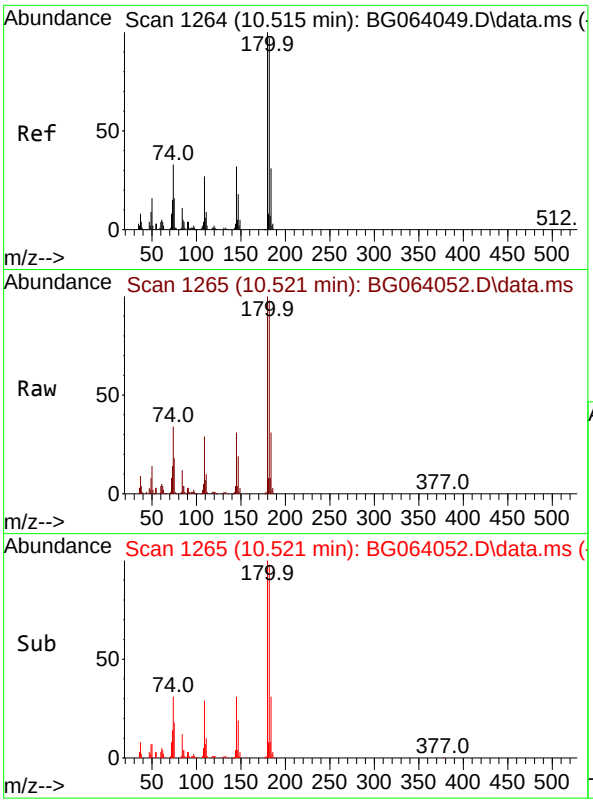


#29
2,4-Dichlorophenol
Concen: 87.086 ng
RT: 10.304 min Scan# 1228
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:162 Resp: 208425

Ion	Ratio	Lower	Upper
162	100		
164	63.8	42.8	82.8
98	41.8	19.1	59.1

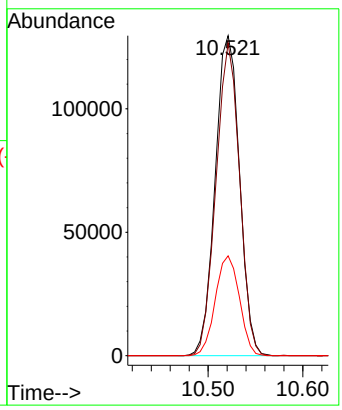




#30
1,2,4-Trichlorobenzene
Concen: 80.151 ng
RT: 10.521 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:180 Resp: 23157

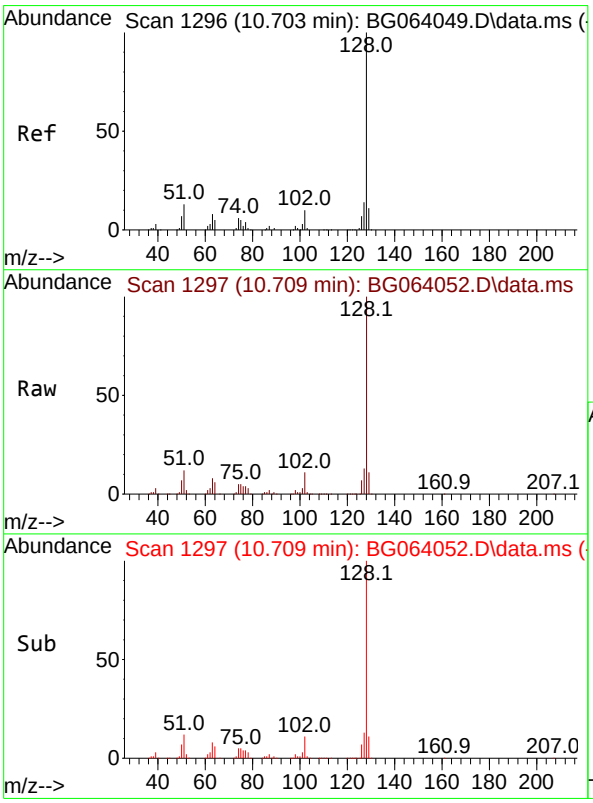
Ion	Ratio	Lower	Upper
180	100		
182	97.7	77.3	115.9
145	31.2	25.2	37.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

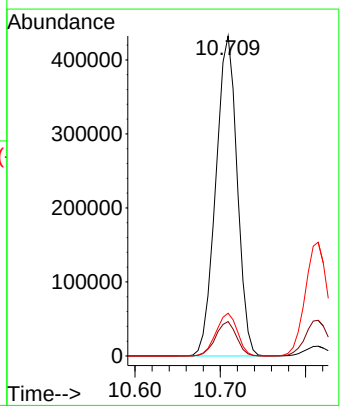
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

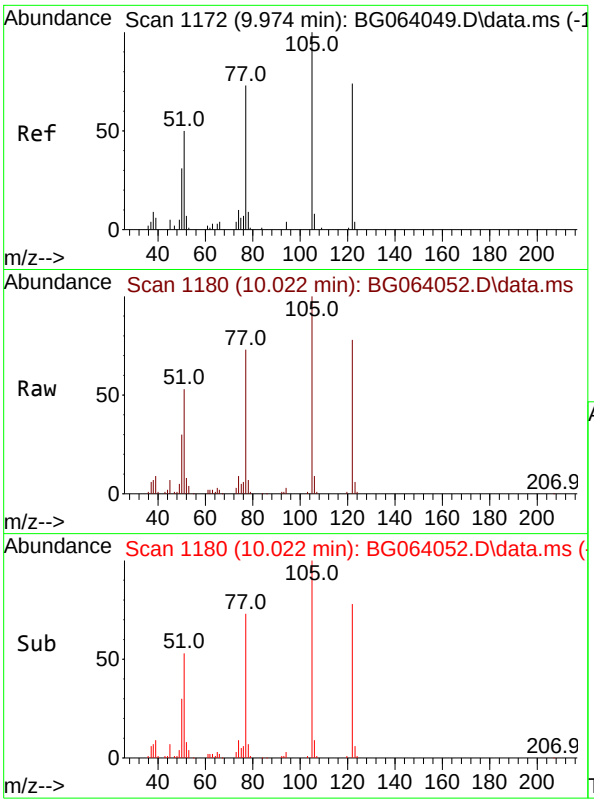


#31
Naphthalene
Concen: 79.925 ng
RT: 10.709 min Scan# 1297
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:128 Resp: 752327

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	13.3	11.1	16.7

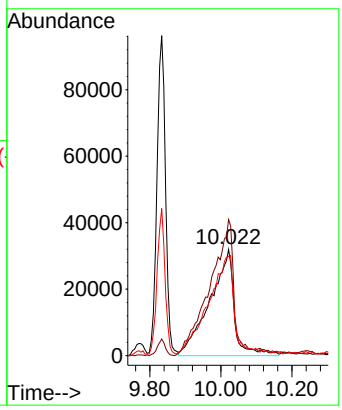




#32
Benzoic acid
Concen: 81.016 ng m
RT: 10.022 min Scan# 1
Delta R.T. 0.048 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:122 Resp: 15353

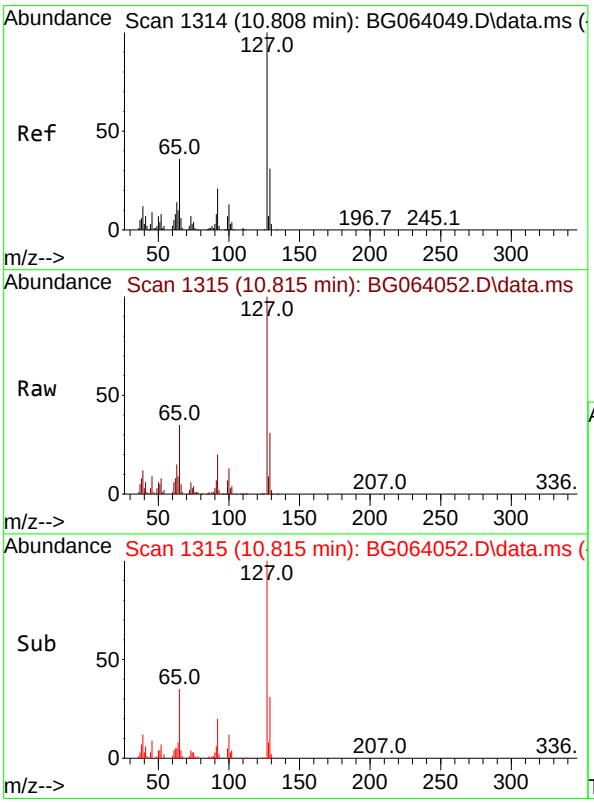
Ion	Ratio	Lower	Upper
122	100		
105	128.1	115.0	155.0
77	93.5	80.9	120.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

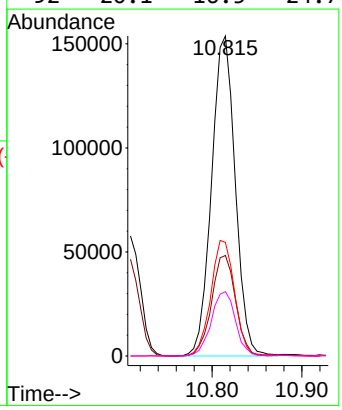
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

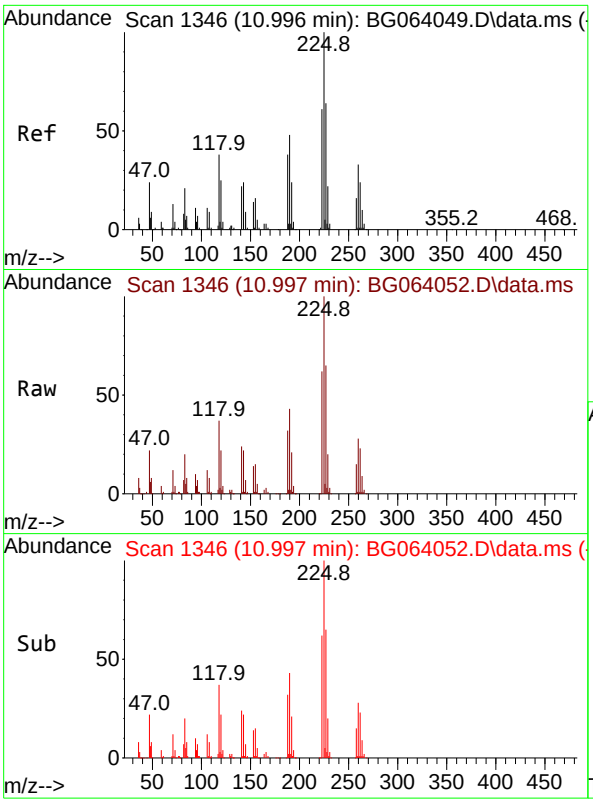


#33
4-Chloroaniline
Concen: 81.948 ng
RT: 10.815 min Scan# 1315
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:127 Resp: 281930

Ion	Ratio	Lower	Upper
127	100		
129	31.4	25.0	37.4
65	35.5	28.5	42.7
92	20.1	16.5	24.7

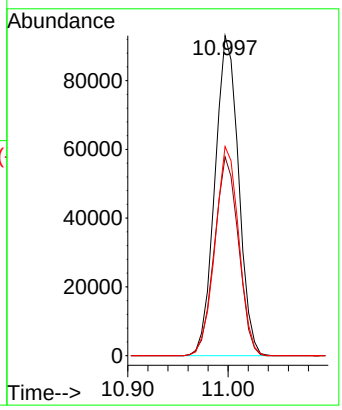




#34
Hexachlorobutadiene
Concen: 80.341 ng
RT: 10.997 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:225 Resp: 15214

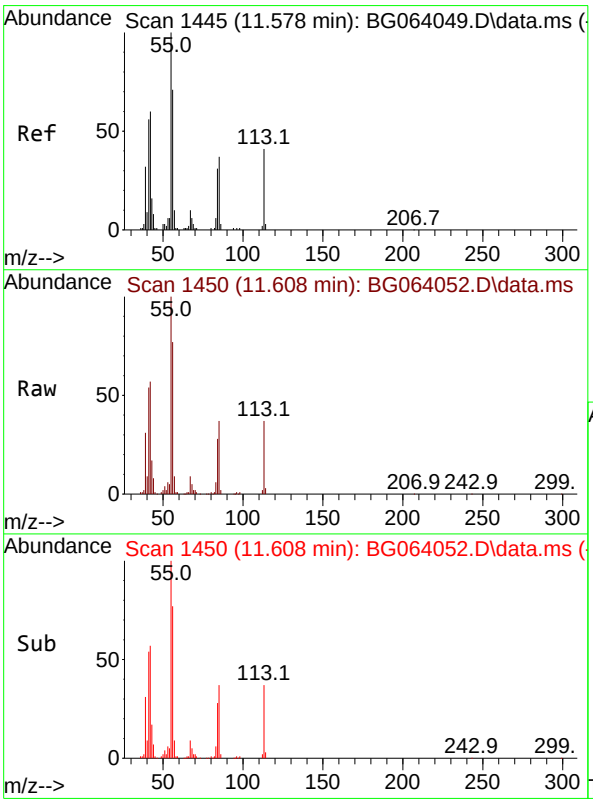
Ion	Ratio	Lower	Upper
225	100		
223	62.1	48.5	72.7
227	65.4	51.0	76.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

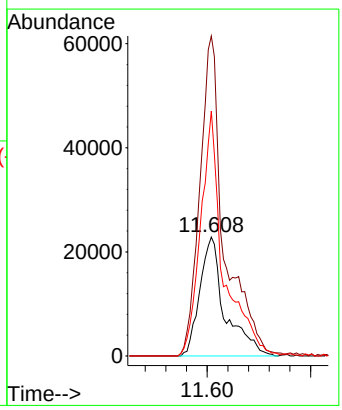
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

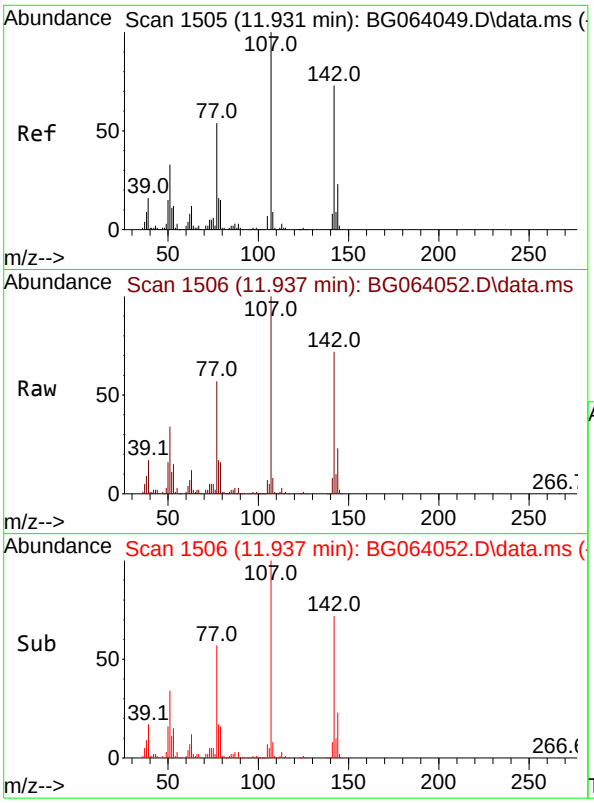


#35
Caprolactam
Concen: 84.477 ng
RT: 11.608 min Scan# 1450
Delta R.T. 0.030 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:113 Resp: 77479

Ion	Ratio	Lower	Upper
113	100		
55	269.1	225.2	265.2#
56	206.0	153.4	193.4#

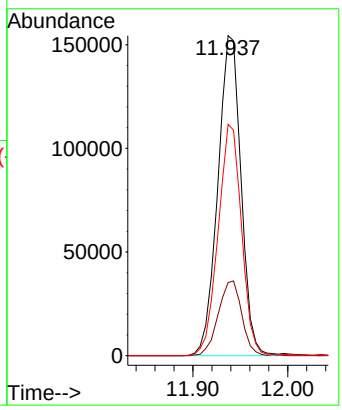




#36
4-Chloro-3-methylphenol
Concen: 83.772 ng
RT: 11.937 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:107 Resp: 26281

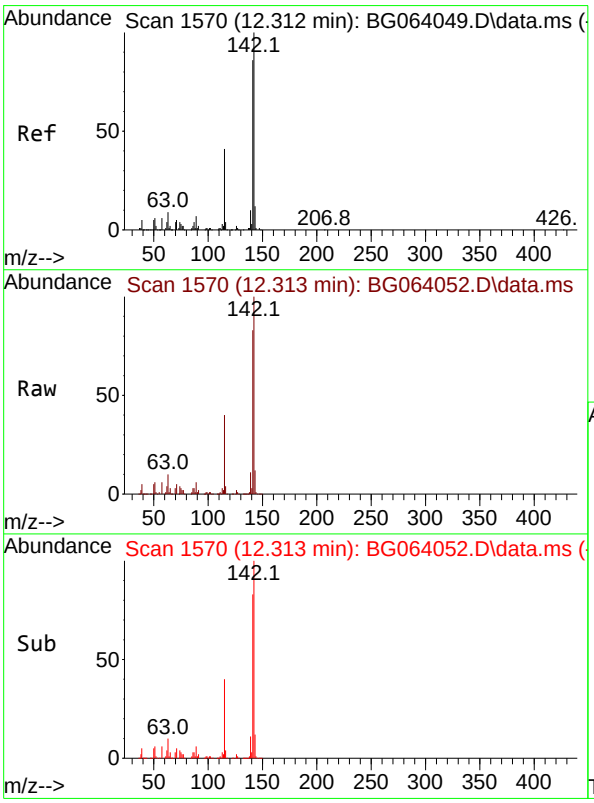
Ion	Ratio	Lower	Upper
107	100		
144	22.9	18.6	28.0
142	72.3	58.0	87.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

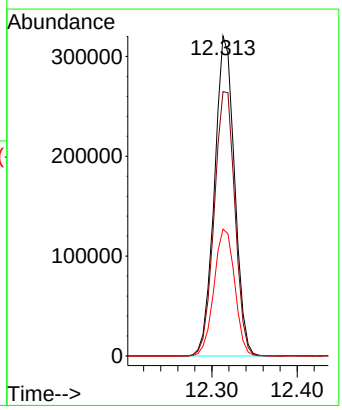
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

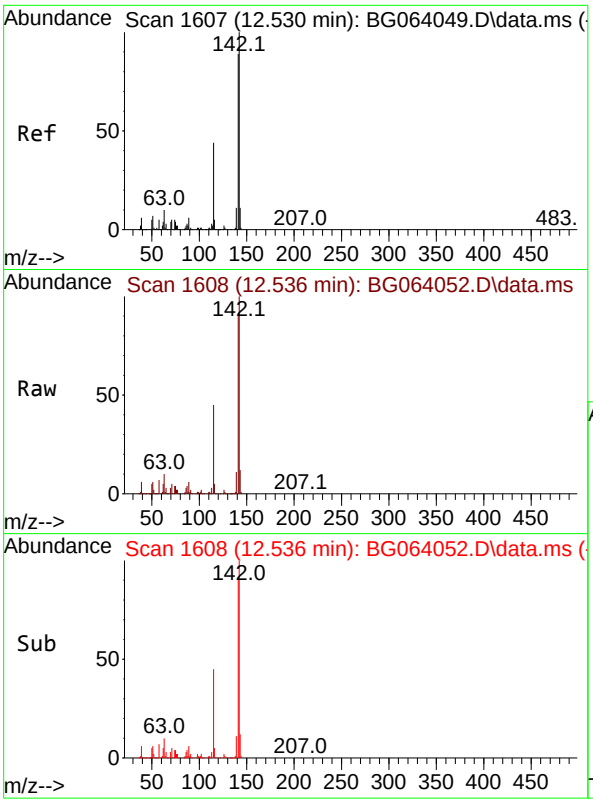


#37
2-Methylnaphthalene
Concen: 78.886 ng
RT: 12.313 min Scan# 1570
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:142 Resp: 524206

Ion	Ratio	Lower	Upper
142	100		
141	82.6	68.6	103.0
115	39.7	32.8	49.2

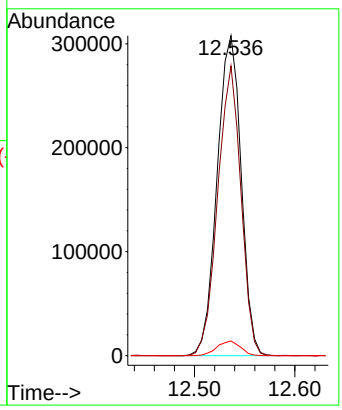




#38
1-Methylnaphthalene
Concen: 78.566 ng
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:142 Resp: 51148

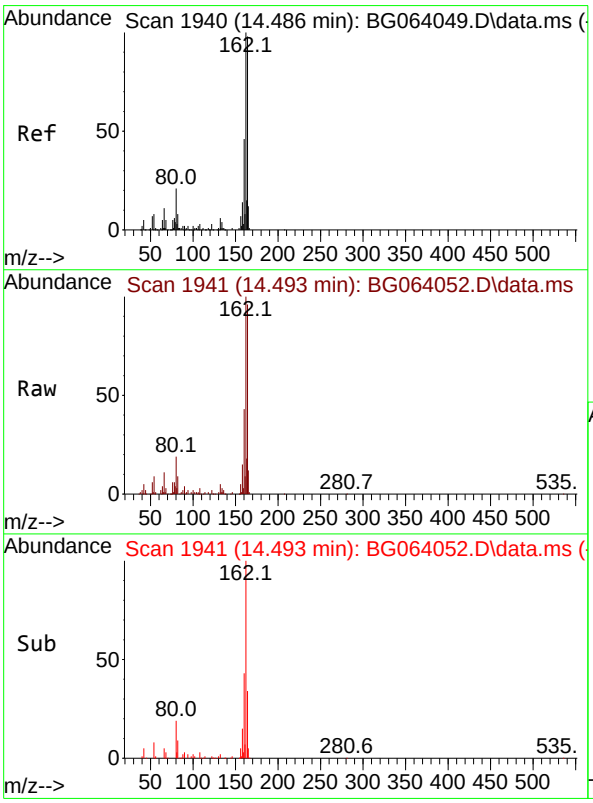
Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.2	106.8
116	4.6	3.6	5.4



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

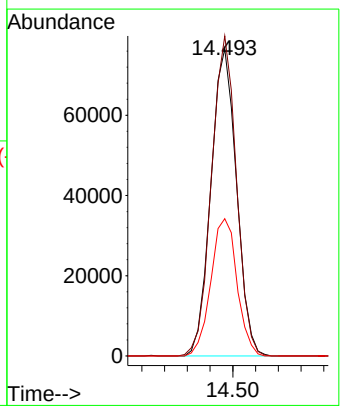
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

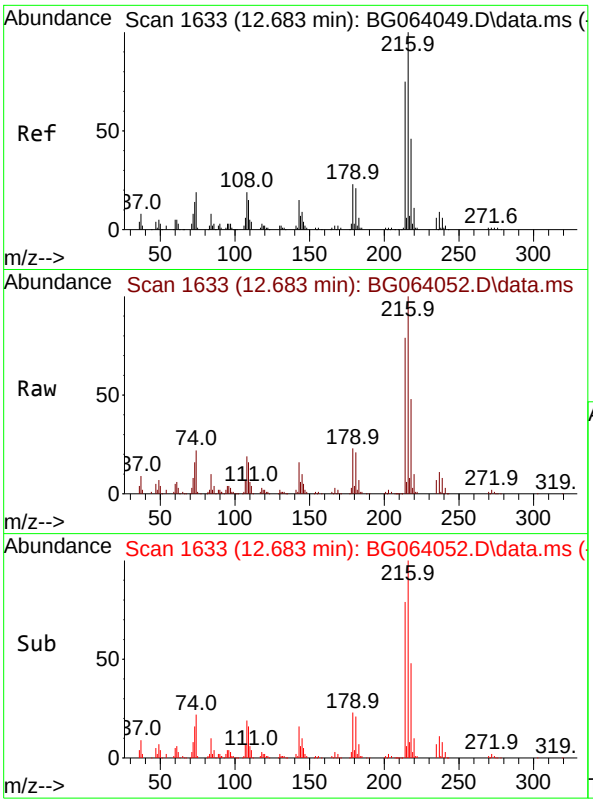


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.493 min Scan# 1941
Delta R.T. 0.007 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:164 Resp: 119753

Ion	Ratio	Lower	Upper
164	100		
162	104.2	81.4	122.0
160	44.7	37.0	55.6

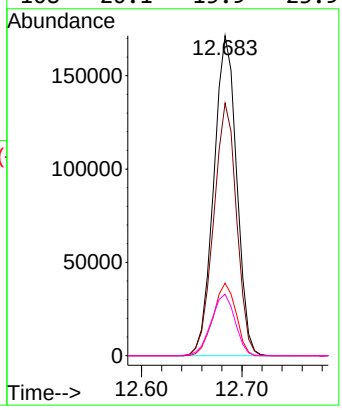




#40
1,2,4,5-Tetrachlorobenzene
Concen: 79.289 ng
RT: 12.683 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:216 Resp: 271079

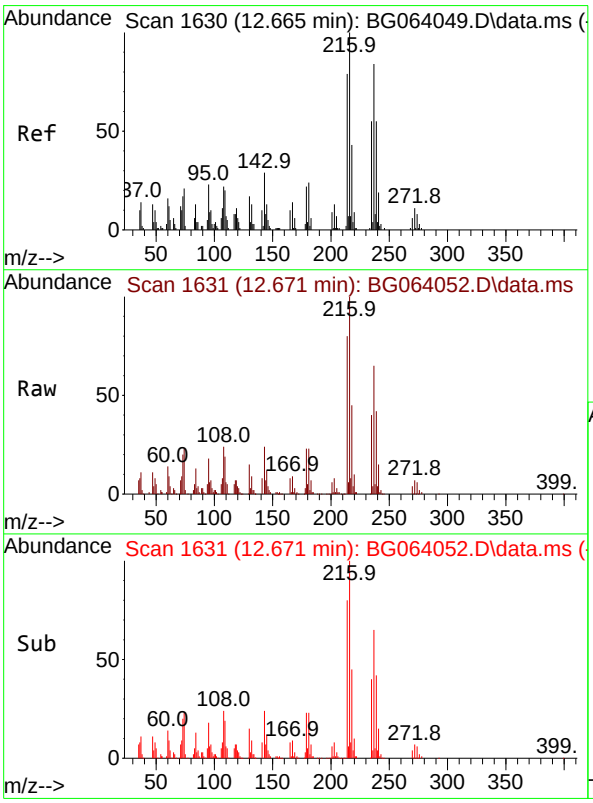
Ion	Ratio	Lower	Upper
216	100		
214	78.7	61.7	92.5
179	22.6	17.9	26.9
108	20.1	15.9	23.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

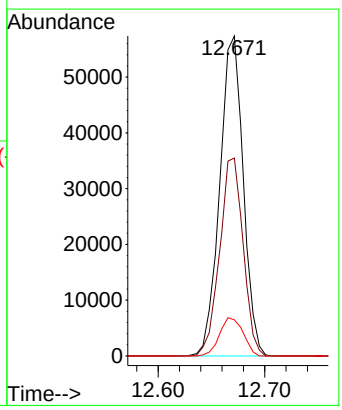
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

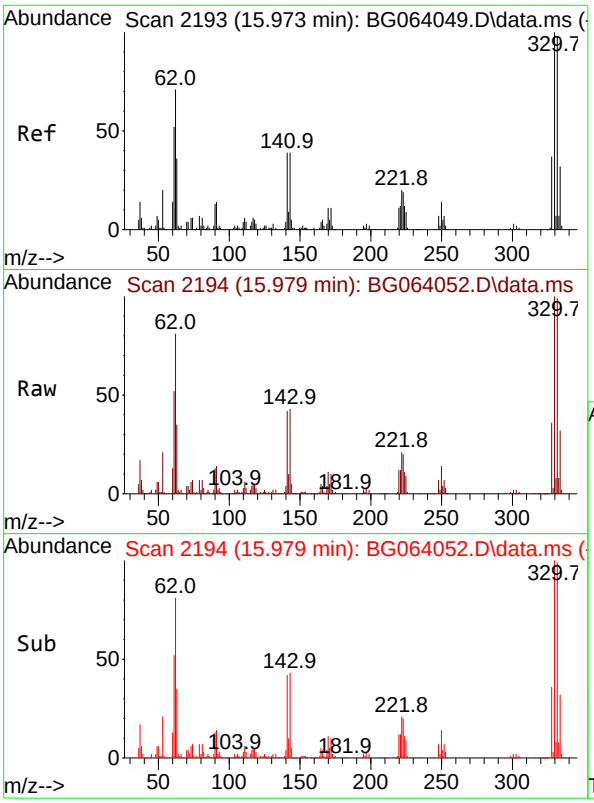


#41
Hexachlorocyclopentadiene
Concen: 91.141 ng
RT: 12.671 min Scan# 1631
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:237 Resp: 87700

Ion	Ratio	Lower	Upper
237	100		
235	61.8	46.0	86.0
272	11.3	0.0	32.8

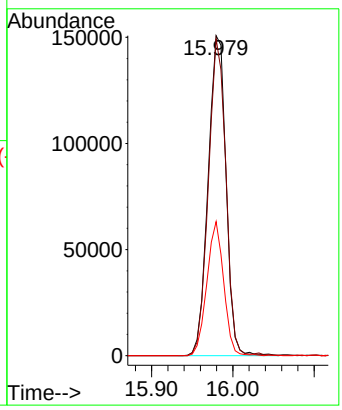




#42
2,4,6-Tribromophenol
Concen: 173.228 ng
RT: 15.979 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:330 Resp: 23059

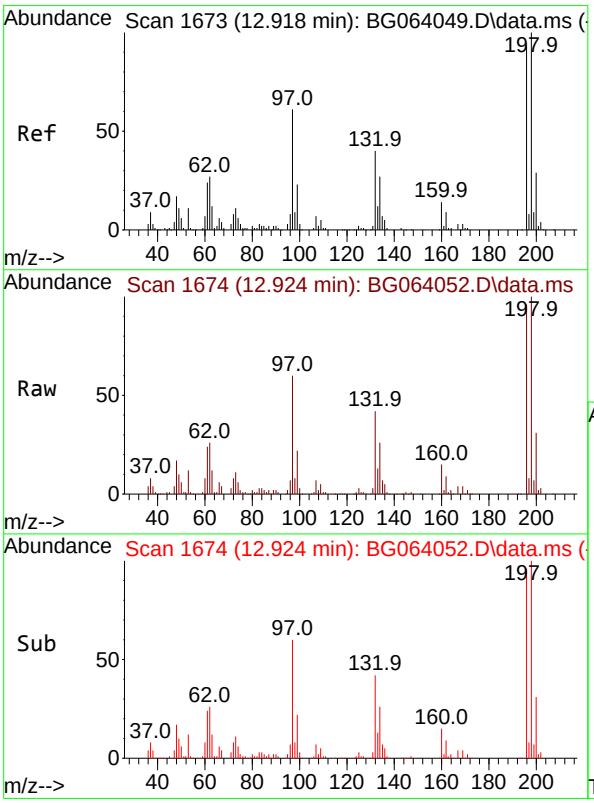
Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.7	115.1
141	39.4	29.7	44.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

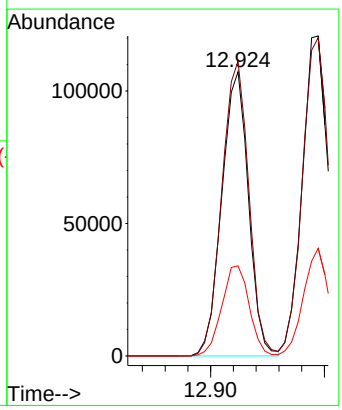
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

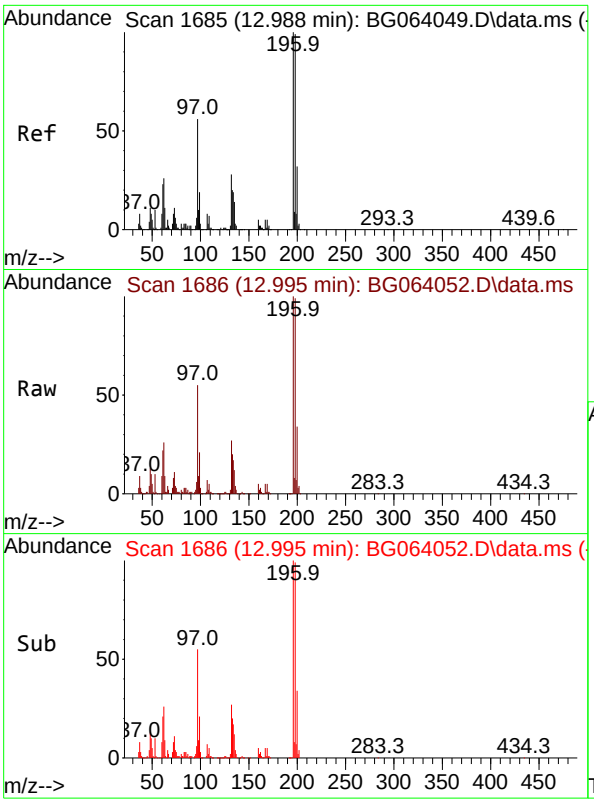


#43
2,4,6-Trichlorophenol
Concen: 86.966 ng
RT: 12.924 min Scan# 1674
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:196 Resp: 175233

Ion	Ratio	Lower	Upper
196	100		
198	103.7	85.6	128.4
200	31.7	24.6	37.0

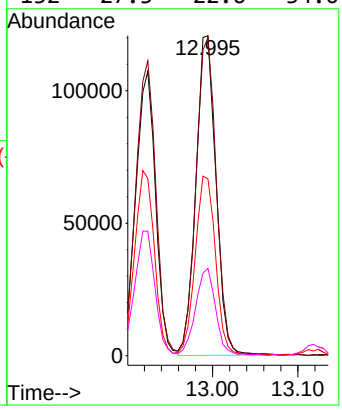




#44
2,4,5-Trichlorophenol
Concen: 88.360 ng
RT: 12.995 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:196 Resp: 19783

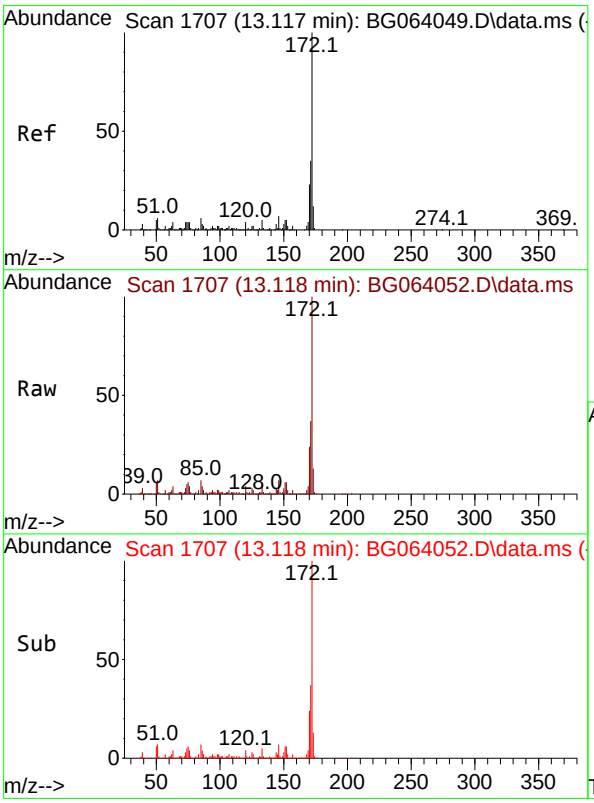
Ion	Ratio	Lower	Upper
196	100		
198	99.5	79.5	119.3
97	55.3	45.2	67.8
132	27.3	22.6	34.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

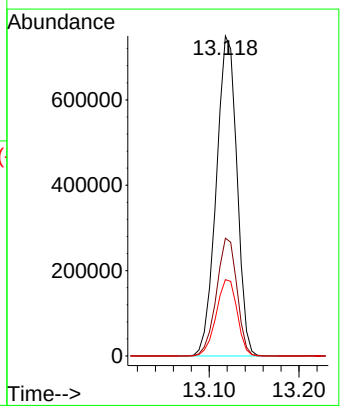
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

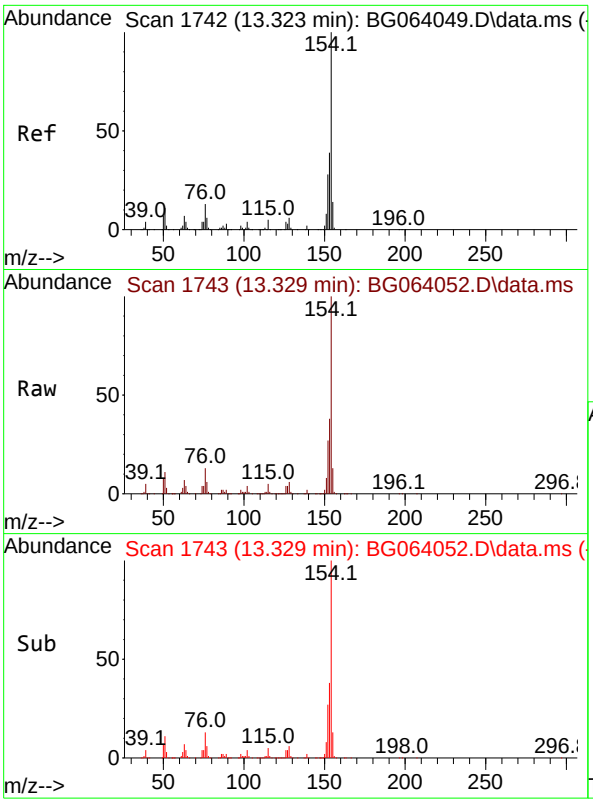


#45
2-Fluorobiphenyl
Concen: 151.908 ng
RT: 13.118 min Scan# 1707
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:172 Resp: 1198476

Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.0	42.0
170	23.9	18.7	28.1

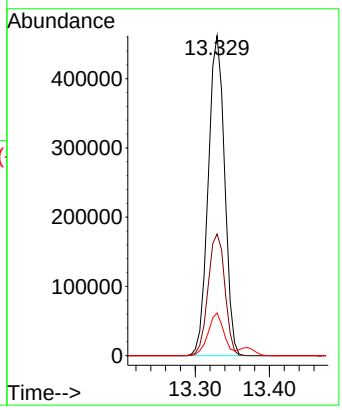




#46
1,1'-Biphenyl
Concen: 78.106 ng
RT: 13.329 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:154 Resp: 70665

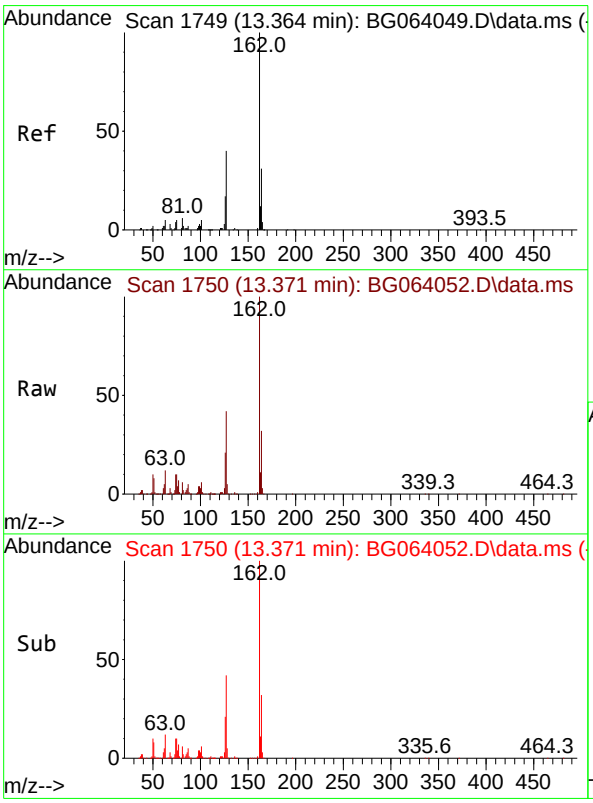
Ion	Ratio	Lower	Upper
154	100		
153	38.0	19.5	59.5
76	13.3	0.0	33.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

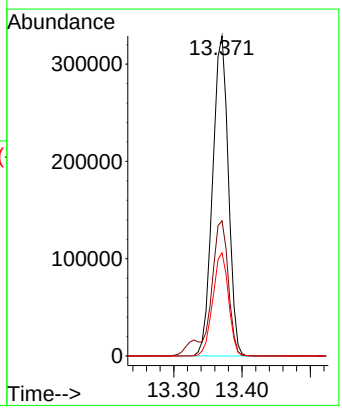
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

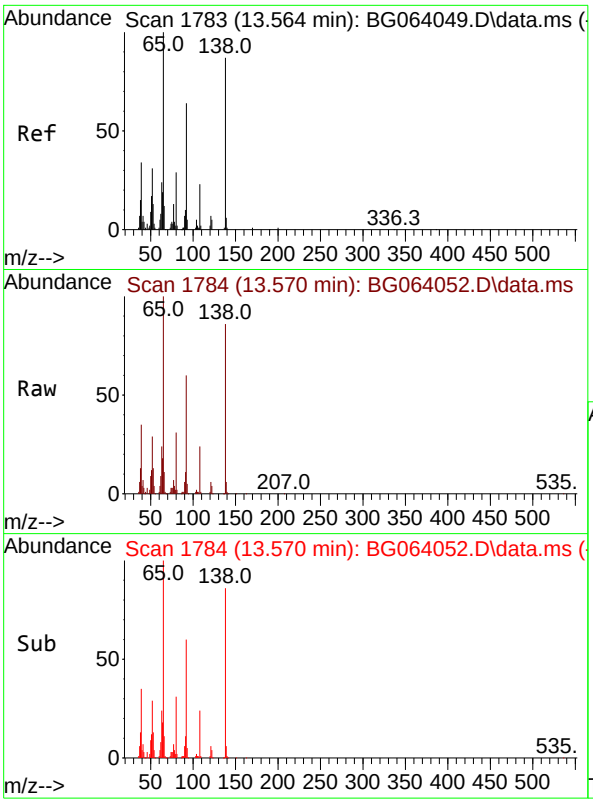


#47
2-Chloronaphthalene
Concen: 80.099 ng
RT: 13.371 min Scan# 1750
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:162 Resp: 528541

Ion	Ratio	Lower	Upper
162	100		
127	42.2	35.0	52.4
164	32.3	25.0	37.6

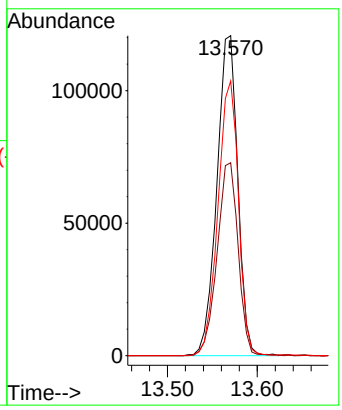




#48
2-Nitroaniline
Concen: 79.407 ng
RT: 13.570 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 65 Resp: 19536

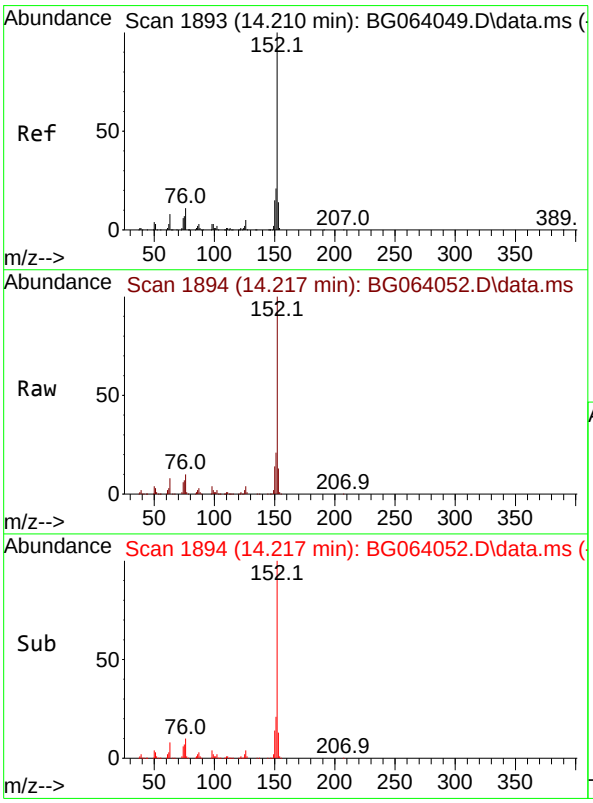
Ion	Ratio	Lower	Upper
65	100		
92	60.3	51.2	76.8
138	85.9	69.4	104.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

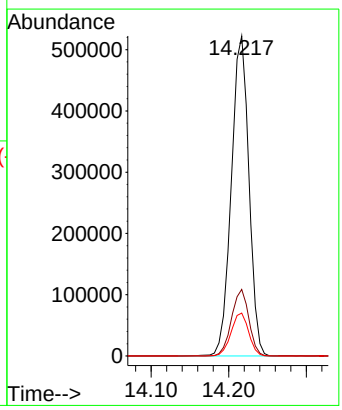
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

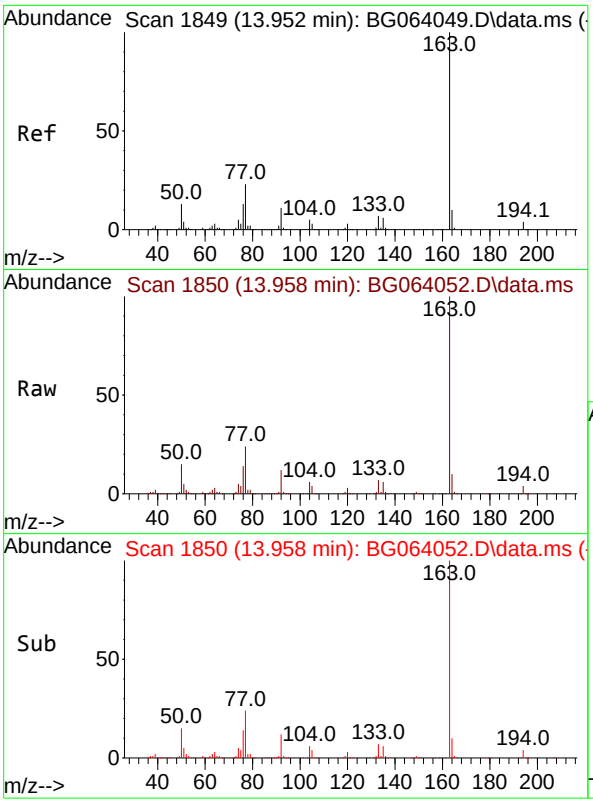


#49
Acenaphthylene
Concen: 78.787 ng
RT: 14.217 min Scan# 1894
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:152 Resp: 822307

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.4	24.6
153	13.4	10.9	16.3

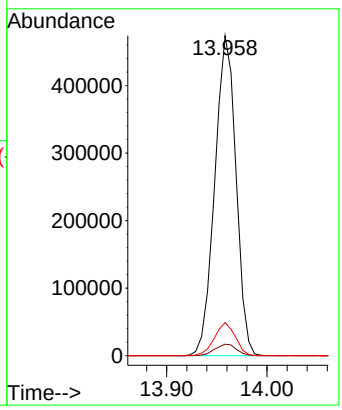




#50
Dimethylphthalate
Concen: 78.689 ng
RT: 13.958 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:163 Resp: 69559

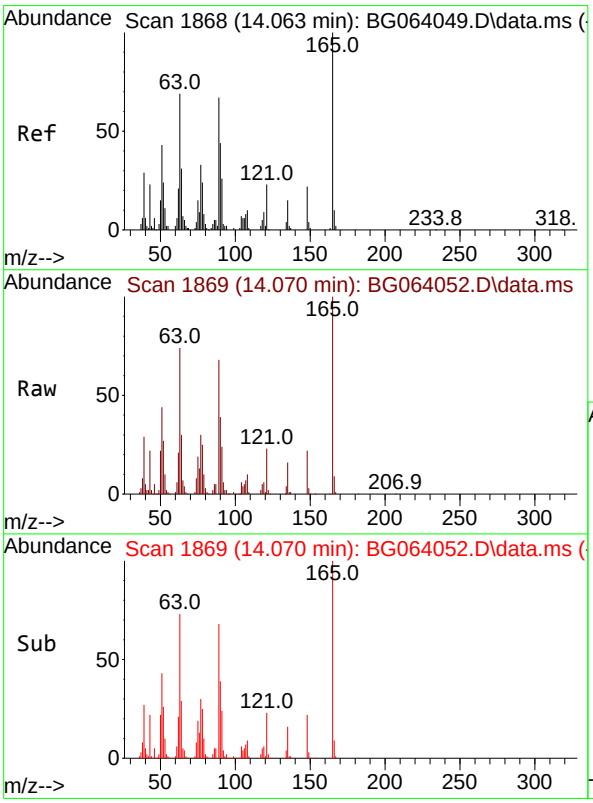
Ion	Ratio	Lower	Upper
163	100		
194	3.6	2.8	4.2
164	10.4	8.2	12.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

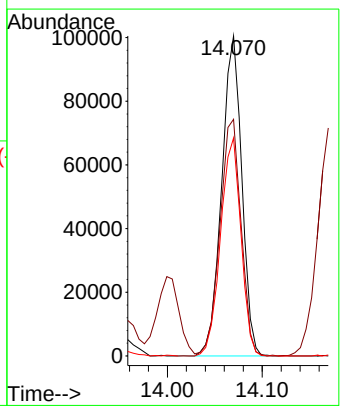
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

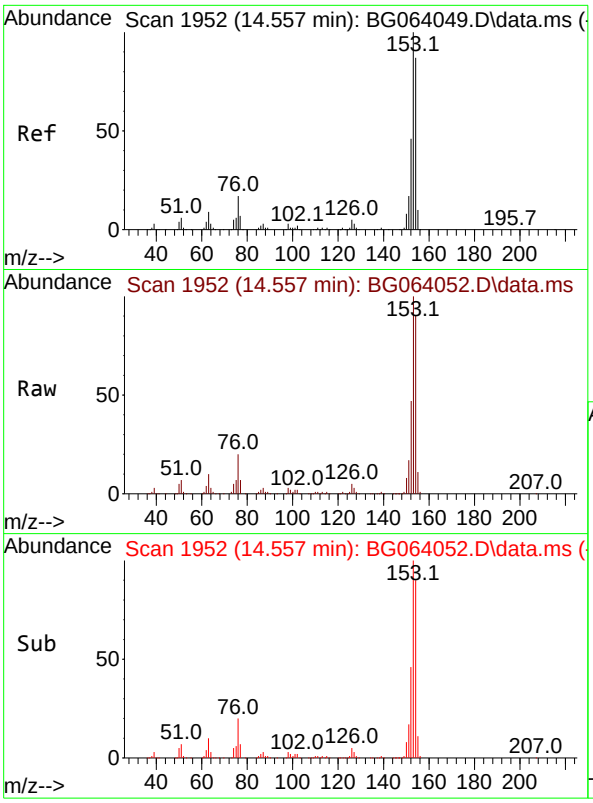


#51
2,6-Dinitrotoluene
Concen: 79.965 ng
RT: 14.070 min Scan# 1869
Delta R.T. 0.007 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:165 Resp: 147719

Ion	Ratio	Lower	Upper
165	100		
63	74.0	56.7	85.1
89	68.1	53.7	80.5

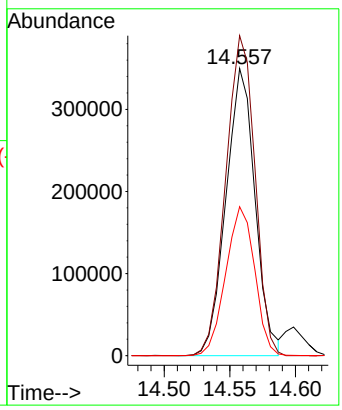




#52
Acenaphthene
Concen: 76.999 ng
RT: 14.557 min Scan# 1
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:154 Resp: 54044

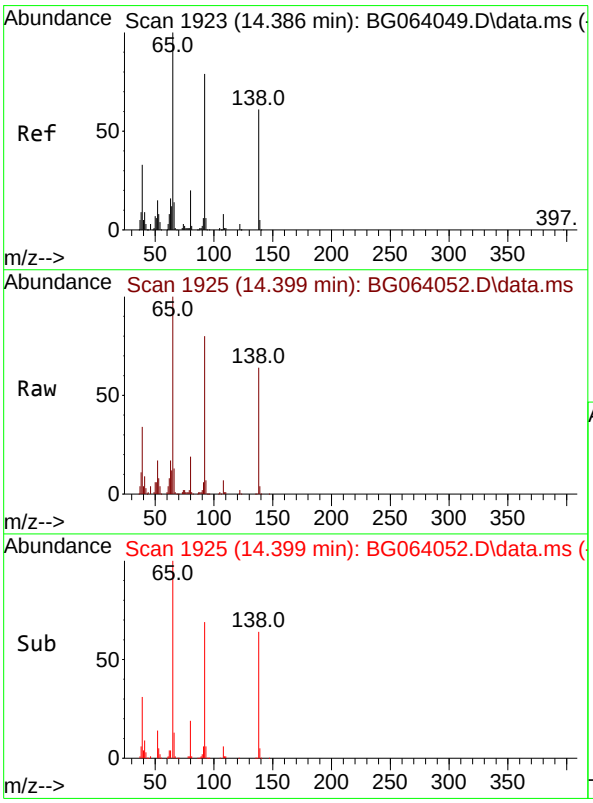
Ion	Ratio	Lower	Upper
154	100		
153	111.4	91.6	137.4
152	51.9	42.5	63.7



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

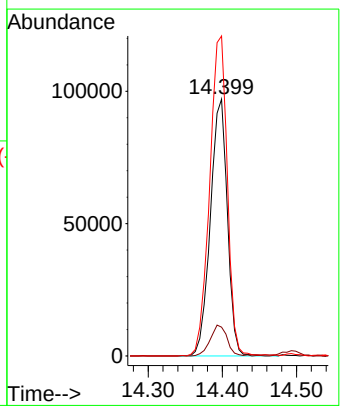
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

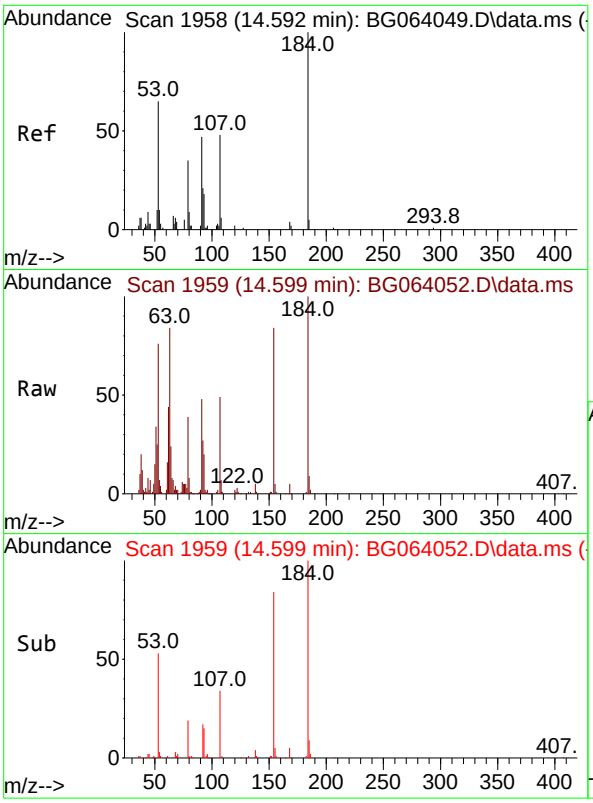


#53
3-Nitroaniline
Concen: 90.561 ng
RT: 14.399 min Scan# 1925
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:138 Resp: 154723

Ion	Ratio	Lower	Upper
138	100		
108	11.2	10.1	15.1
92	124.6	104.1	156.1

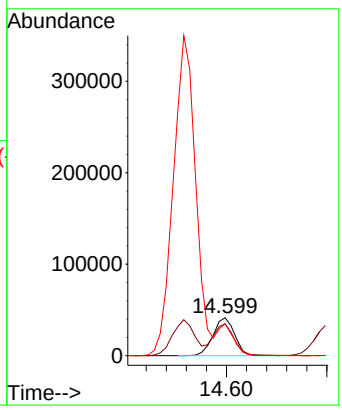




#54
2,4-Dinitrophenol
Concen: 82.400 ng
RT: 14.599 min Scan# 1
Delta R.T. 0.007 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:184 Resp: 6180

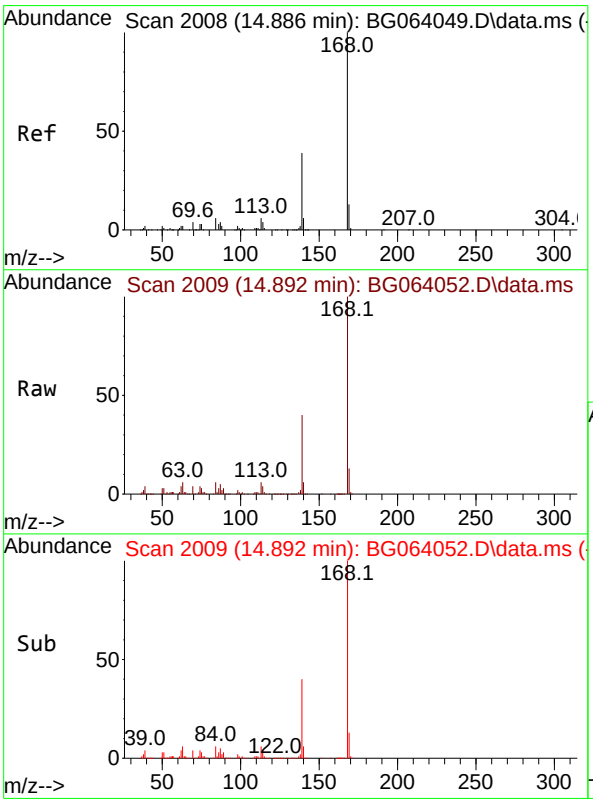
Ion	Ratio	Lower	Upper
184	100		
63	84.0	57.5	86.3
154	83.9	52.3	78.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

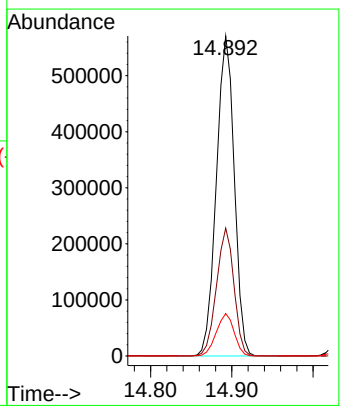
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

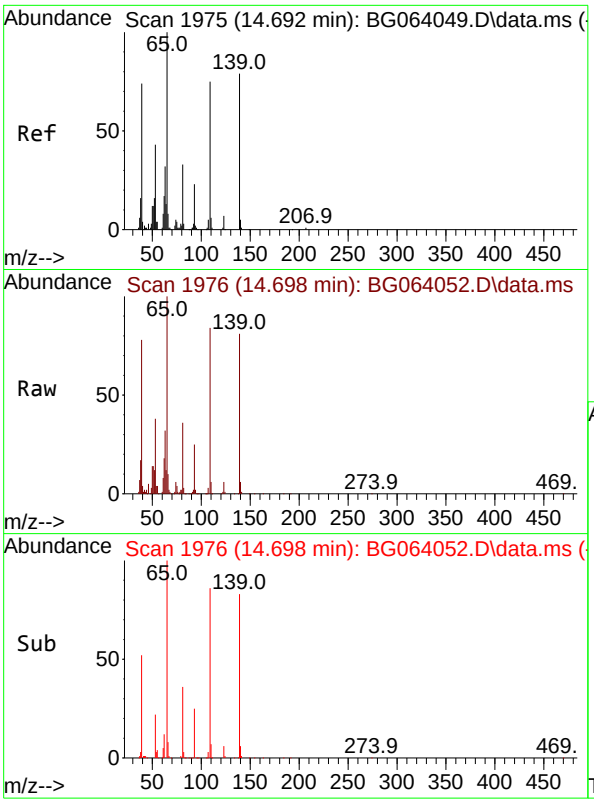


#55
Dibenzofuran
Concen: 77.066 ng
RT: 14.892 min Scan# 2009
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:168 Resp: 874479

Ion	Ratio	Lower	Upper
168	100		
139	40.0	31.1	46.7
169	13.2	10.5	15.7

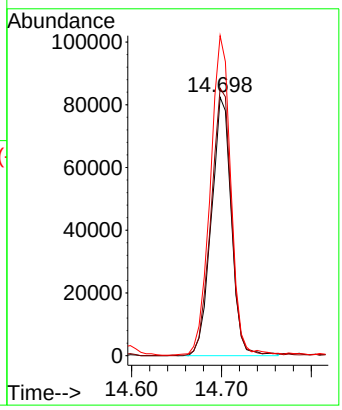




#56
4-Nitrophenol
Concen: 88.621 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:139 Resp: 12698

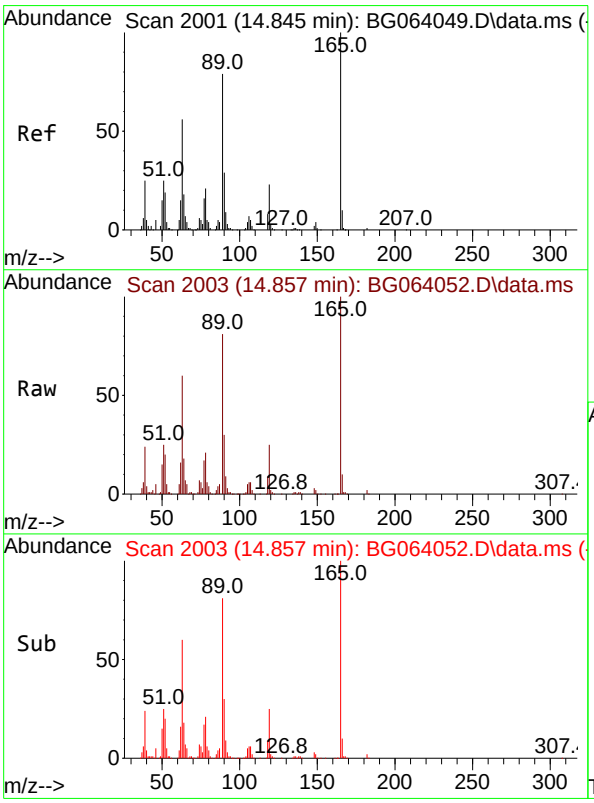
Ion	Ratio	Lower	Upper
139	100		
109	103.5	74.9	114.9
65	123.8	106.8	146.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

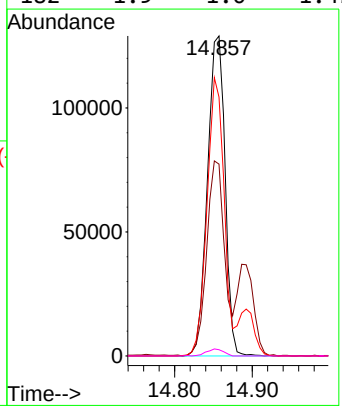
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

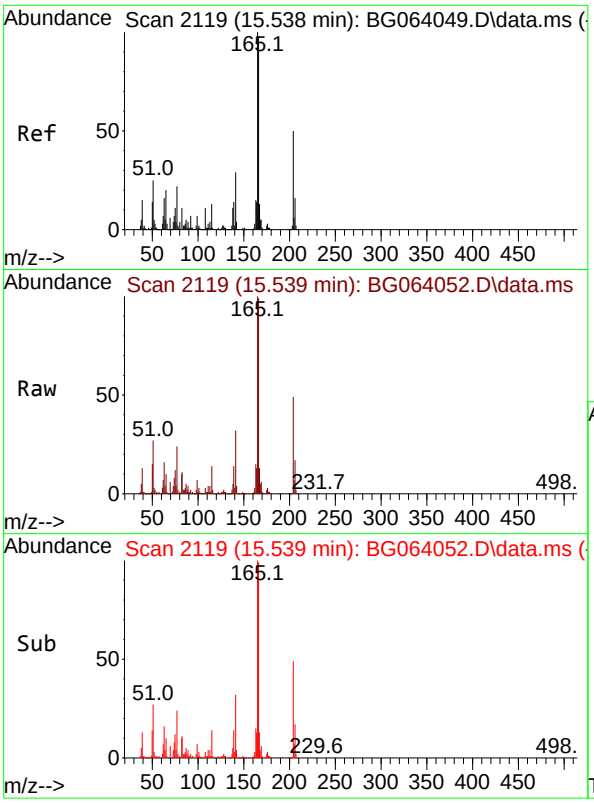


#57
2,4-Dinitrotoluene
Concen: 79.564 ng
RT: 14.857 min Scan# 2003
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:165 Resp: 203301

Ion	Ratio	Lower	Upper
165	100		
63	60.0	45.0	67.6
89	80.9	63.1	94.7
182	1.9	1.0	1.4#

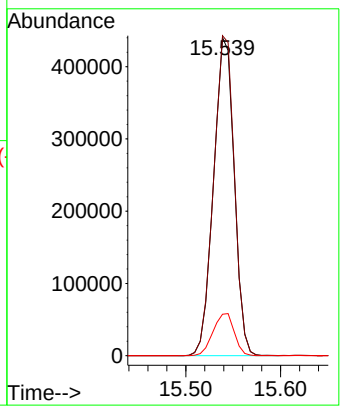




#58
Fluorene
Concen: 75.593 ng
RT: 15.539 min Scan# 21
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:166 Resp: 66807

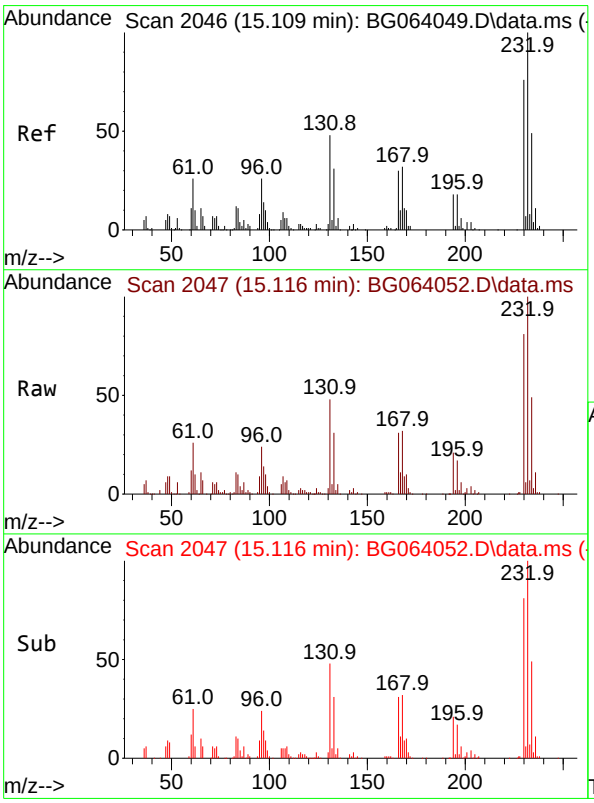
Ion	Ratio	Lower	Upper
166	100		
165	100.6	81.8	122.8
167	13.0	10.8	16.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

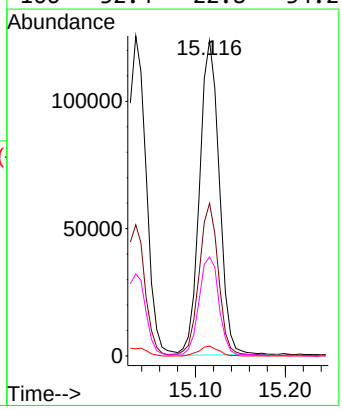
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

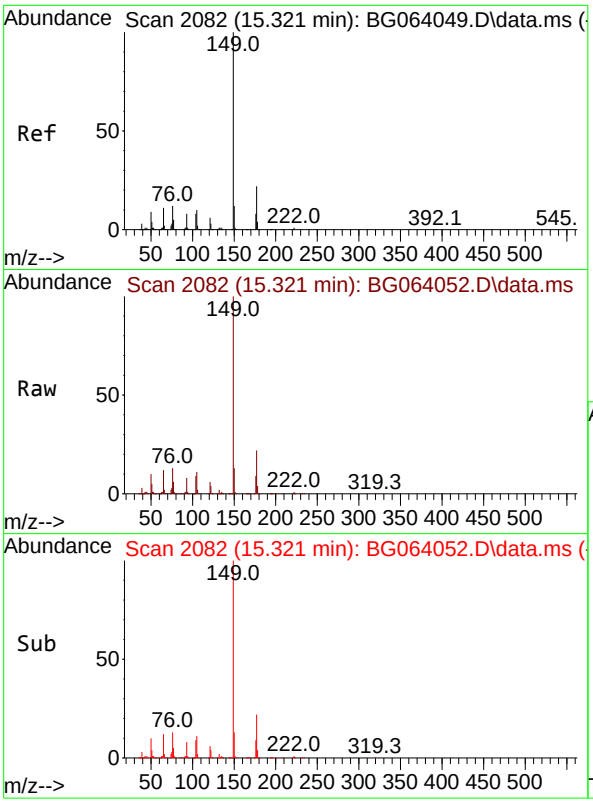


#59
2,3,4,6-Tetrachlorophenol
Concen: 86.273 ng
RT: 15.116 min Scan# 2047
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:232 Resp: 188307

Ion	Ratio	Lower	Upper
232	100		
131	47.8	36.3	54.5
130	3.1	1.9	2.9#
166	32.4	22.8	34.2

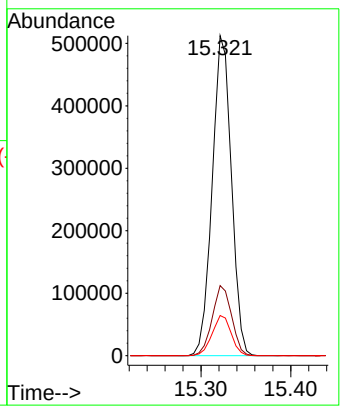




#60
Diethylphthalate
Concen: 79.055 ng
RT: 15.321 min Scan# 2
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:149 Resp: 75865

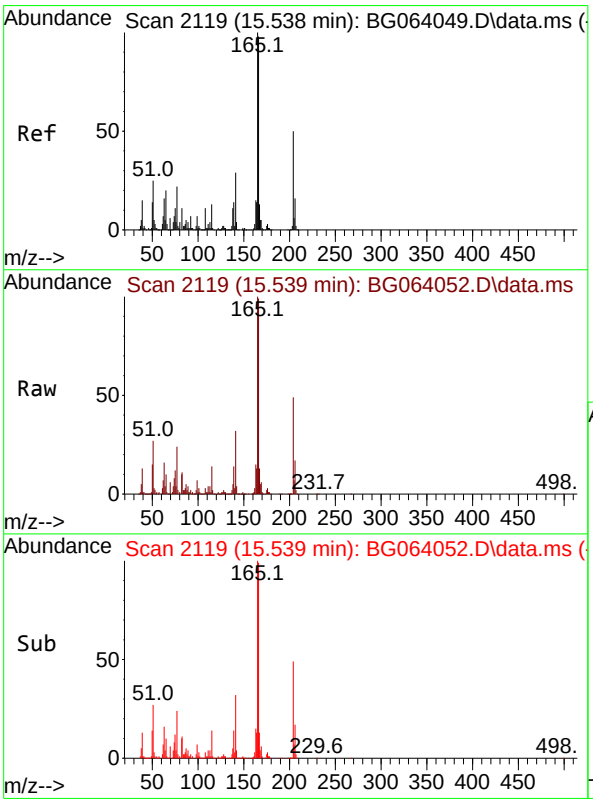
Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.4	26.2
150	12.6	9.4	14.2



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

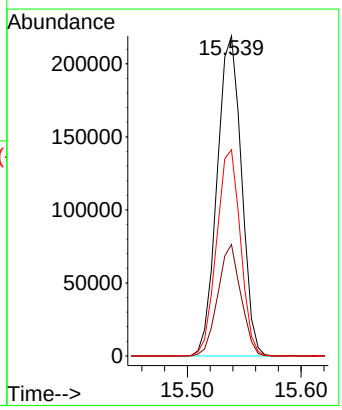
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

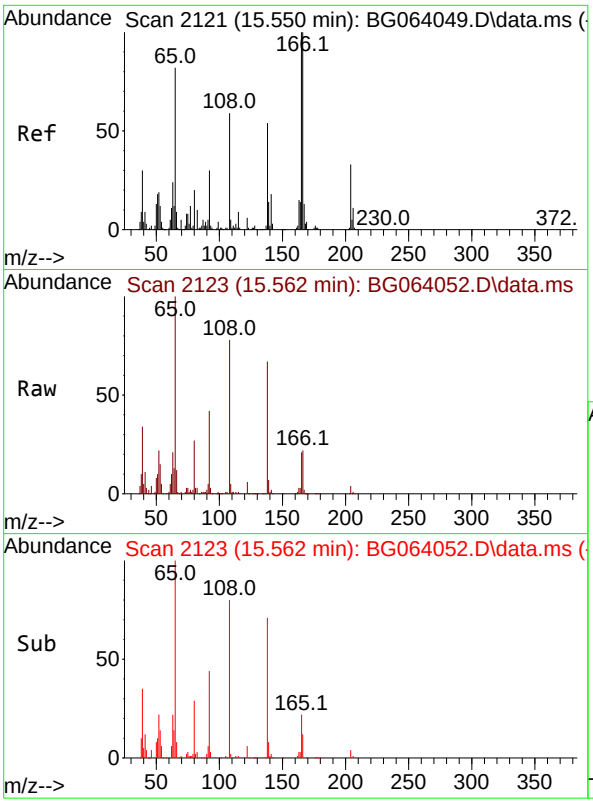


#61
4-Chlorophenyl-phenylether
Concen: 74.261 ng
RT: 15.539 min Scan# 2119
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:204 Resp: 326141

Ion	Ratio	Lower	Upper
204	100		
206	34.8	25.5	38.3
141	64.4	45.4	68.0

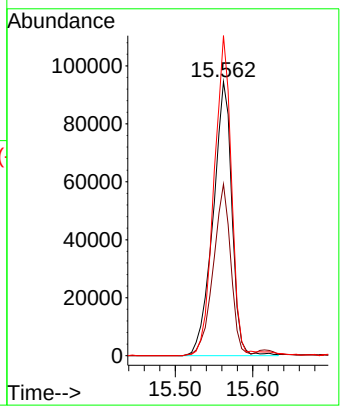




#62
4-Nitroaniline
Concen: 86.459 ng
RT: 15.562 min Scan# 2
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:138 Resp: 15947

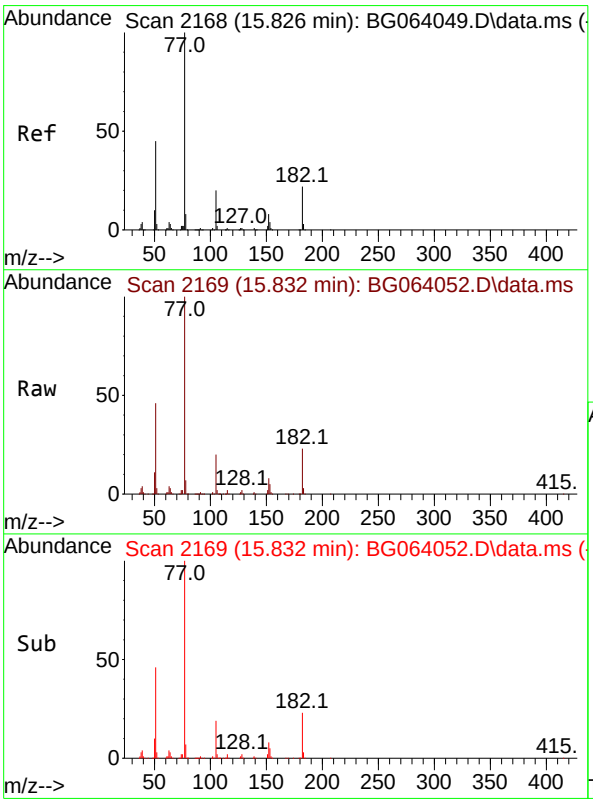
Ion	Ratio	Lower	Upper
138	100		
92	62.6	36.1	76.1
108	116.8	87.9	127.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

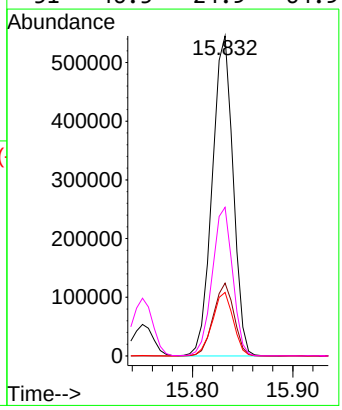
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

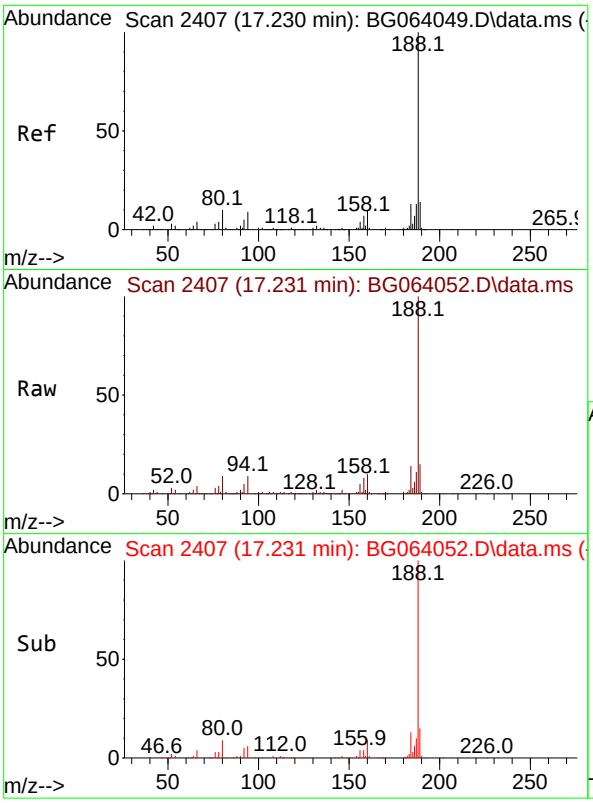


#63
Azobenzene
Concen: 76.893 ng
RT: 15.832 min Scan# 2169
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion: 77 Resp: 787412

Ion	Ratio	Lower	Upper
77	100		
182	22.8	2.4	42.4
105	19.9	0.0	40.0
51	46.5	24.9	64.9

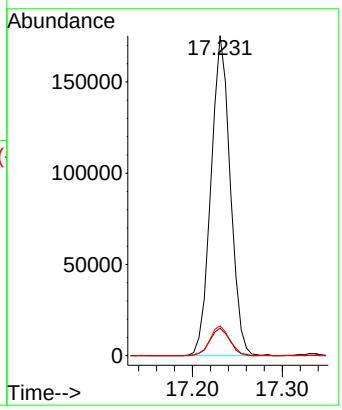




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.231 min Scan# 24
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:188 Resp: 26135

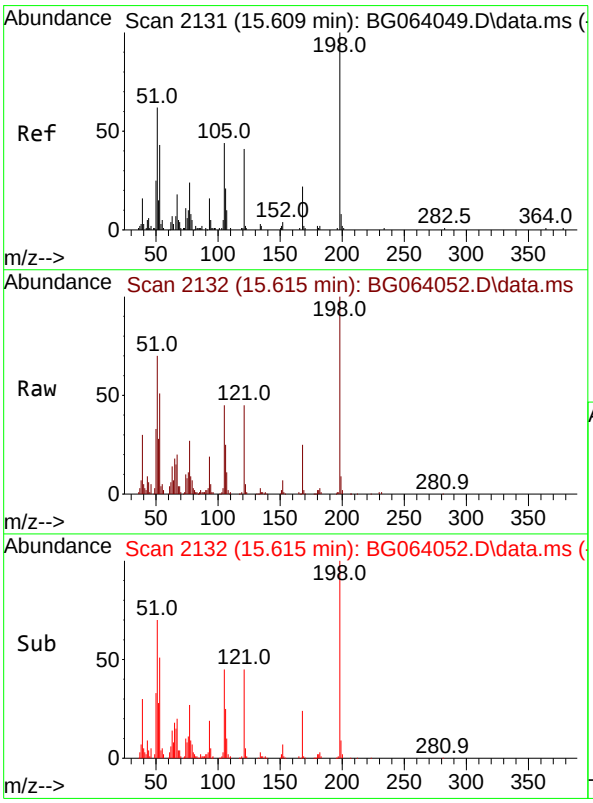
Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.9	10.3
80	9.3	8.1	12.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

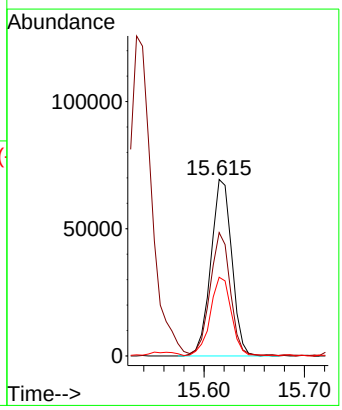
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

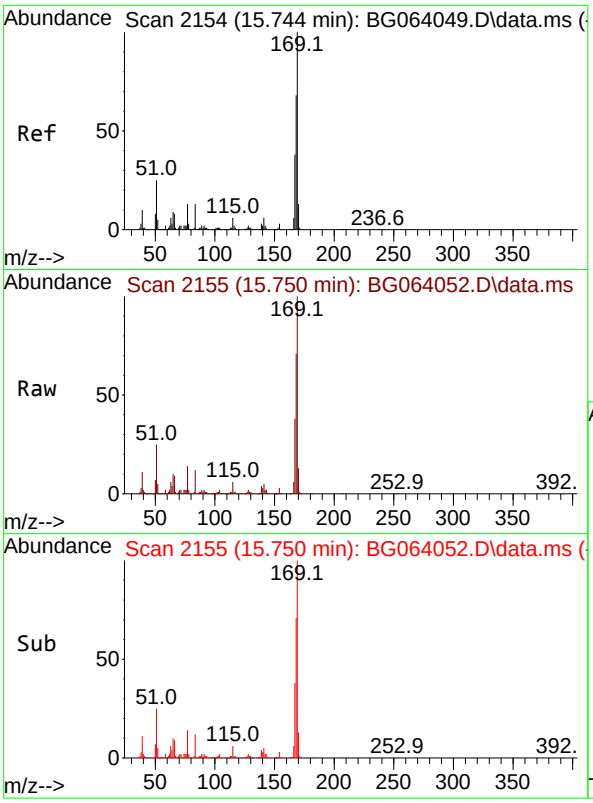


#65
4,6-Dinitro-2-methylphenol
Concen: 81.905 ng
RT: 15.615 min Scan# 2132
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:198 Resp: 100338

Ion	Ratio	Lower	Upper
198	100		
51	69.9	45.6	85.6
105	44.6	25.3	65.3

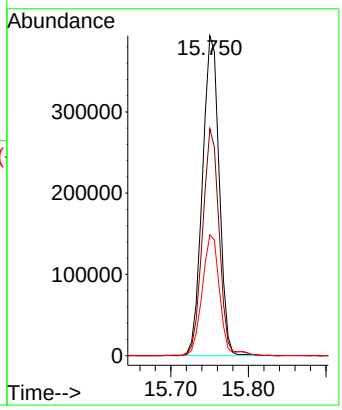




#66
n-Nitrosodiphenylamine
Concen: 79.884 ng
RT: 15.750 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:169 Resp: 59097

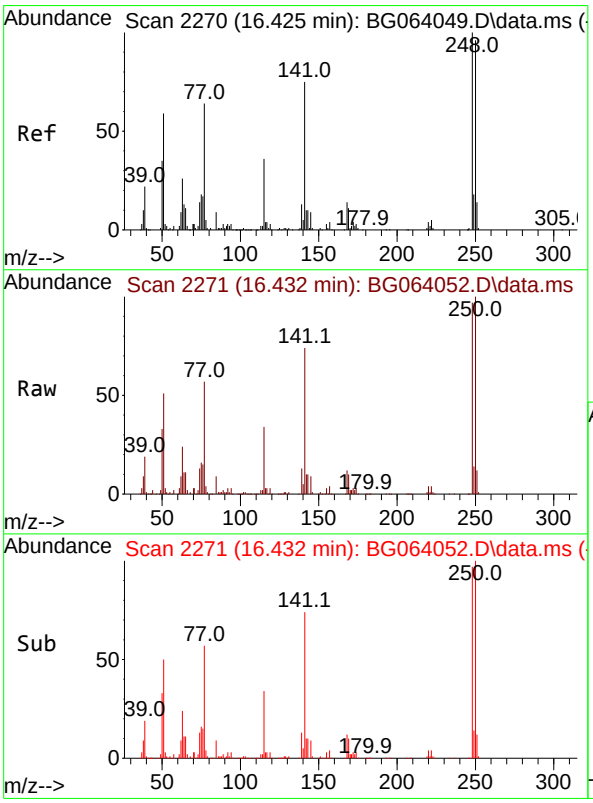
Ion	Ratio	Lower	Upper
169	100		
168	70.9	54.1	81.1
167	37.7	30.3	45.5



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

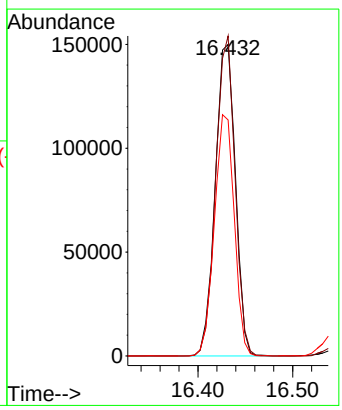
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

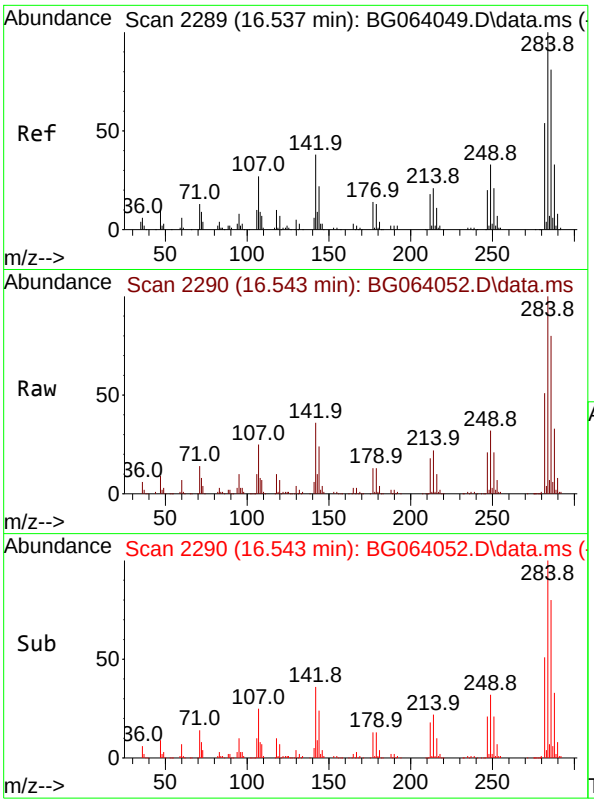


#67
4-Bromophenyl-phenylether
Concen: 83.033 ng
RT: 16.432 min Scan# 2271
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:248 Resp: 222258

Ion	Ratio	Lower	Upper
248	100		
250	102.7	77.1	115.7
141	75.8	59.8	89.8

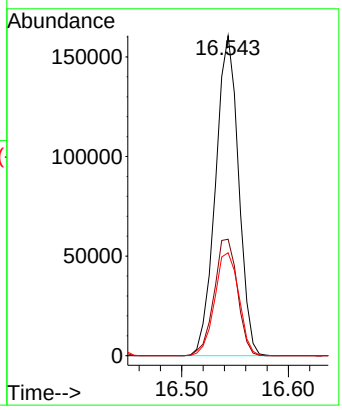




#68
Hexachlorobenzene
Concen: 80.390 ng
RT: 16.543 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:284 Resp: 24090

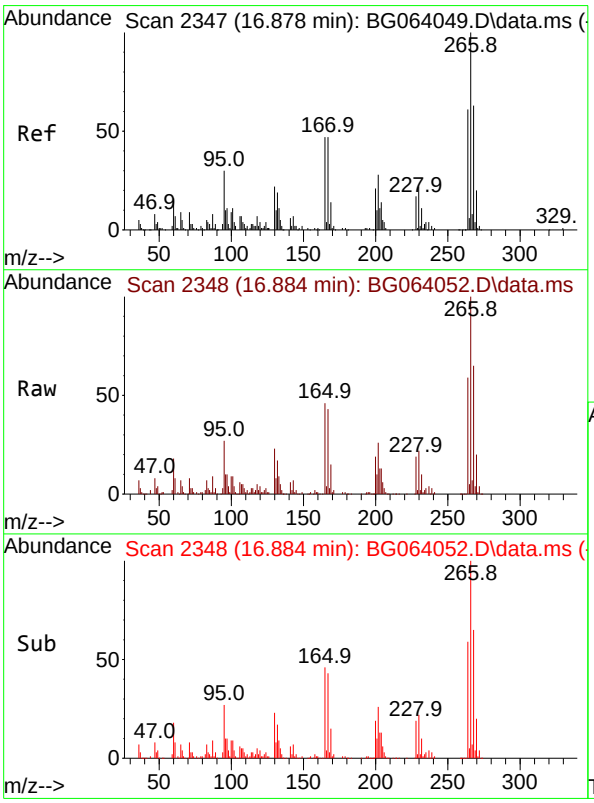
Ion	Ratio	Lower	Upper
284	100		
142	36.4	30.6	45.8
249	32.1	26.6	39.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

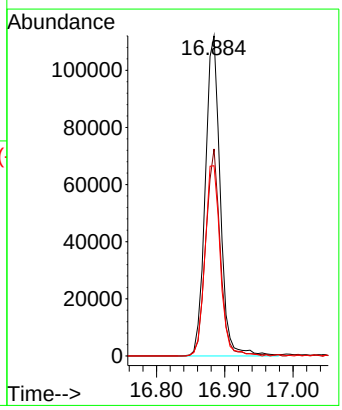
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

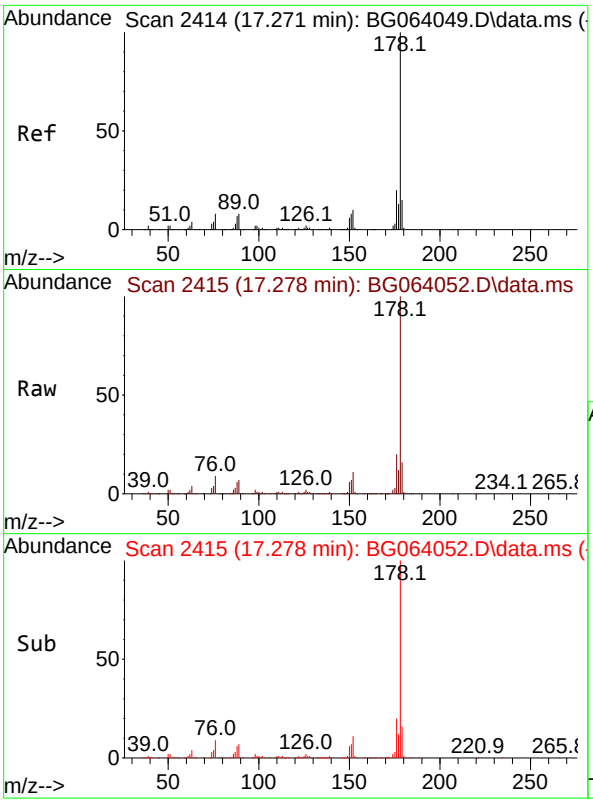


#70
Pentachlorophenol
Concen: 91.819 ng
RT: 16.884 min Scan# 2348
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:266 Resp: 170842

Ion	Ratio	Lower	Upper
266	100		
268	64.7	50.2	75.4
264	59.4	48.9	73.3





#71
Phenanthrene
Concen: 78.492 ng
RT: 17.278 min Scan# 24
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

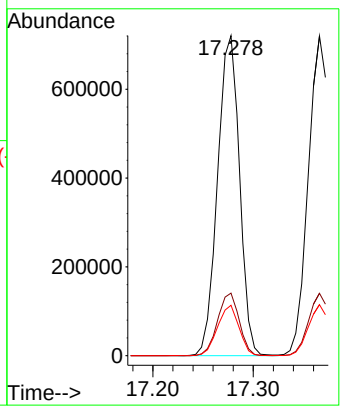
Tgt Ion:178 Resp: 109418

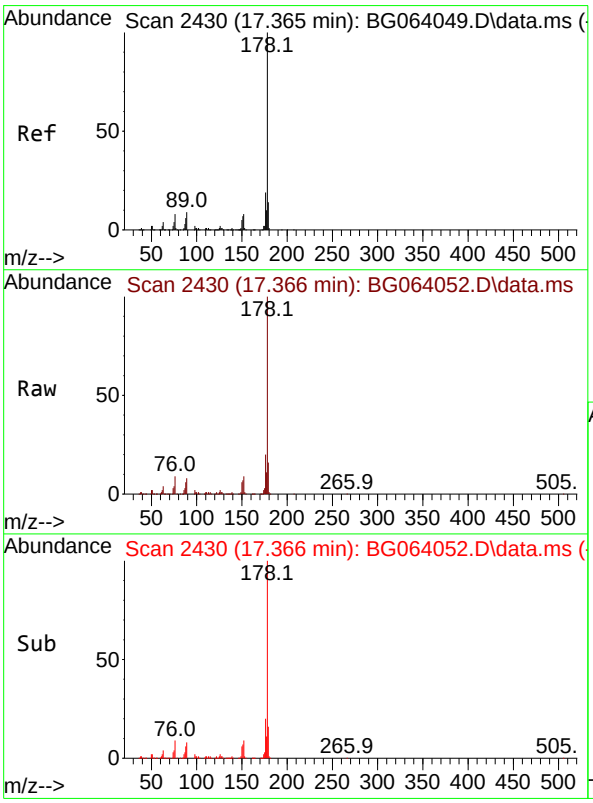
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.9	23.9
179	15.8	12.2	18.2

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

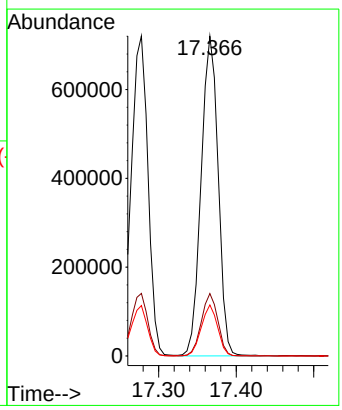


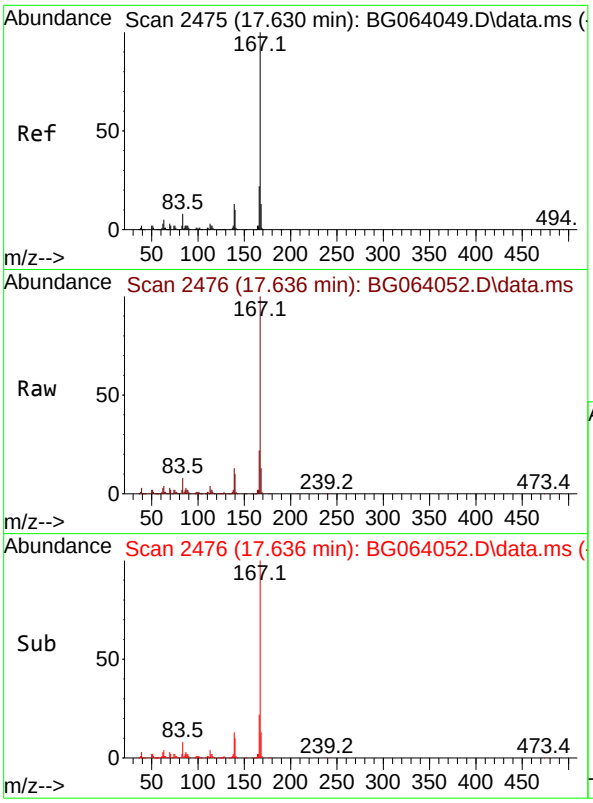


#72
Anthracene
Concen: 79.297 ng
RT: 17.366 min Scan# 2430
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:178 Resp: 1099164

Ion	Ratio	Lower	Upper
178	100		
176	19.5	14.8	22.2
179	16.0	11.5	17.3

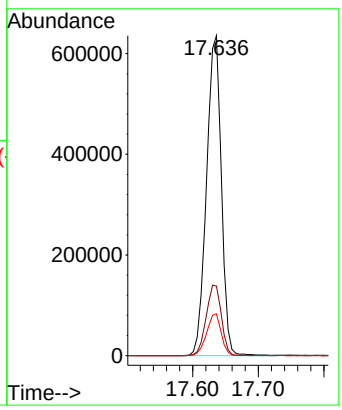




#73
Carbazole
Concen: 77.234 ng
RT: 17.636 min Scan# 24
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:167 Resp: 999549

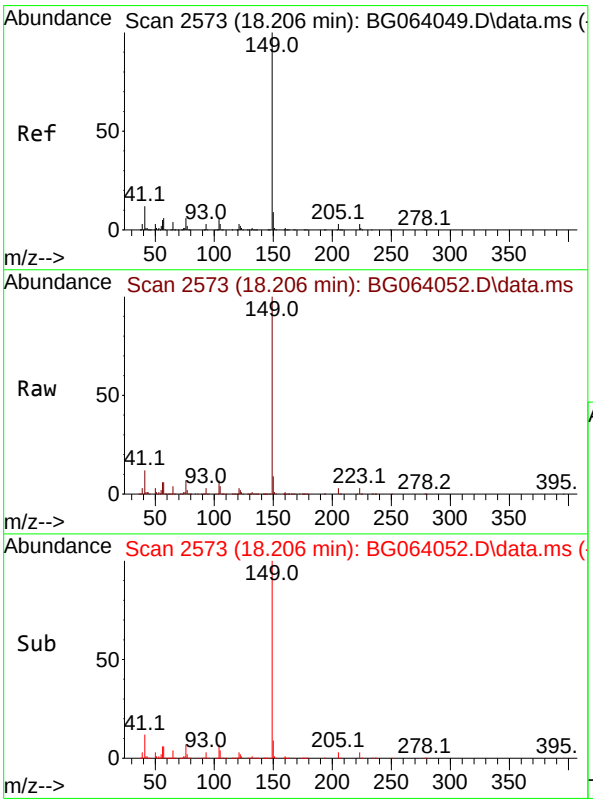
Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.0	27.0
139	13.1	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

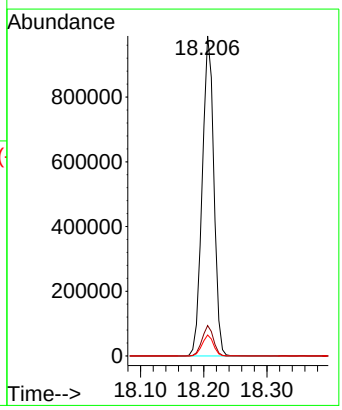
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

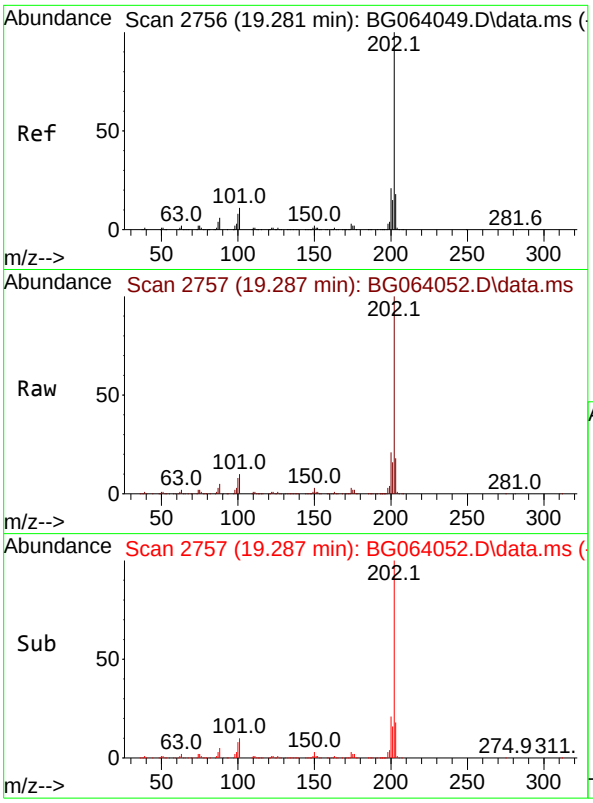


#74
Di-n-butylphthalate
Concen: 82.920 ng
RT: 18.206 min Scan# 2573
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:149 Resp: 1263186

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.0
104	6.5	5.0	7.6

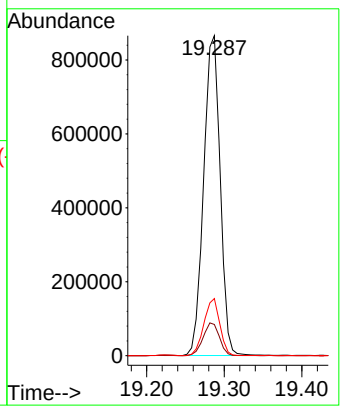




#75
Fluoranthene
Concen: 75.929 ng
RT: 19.287 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:202 Resp: 127604

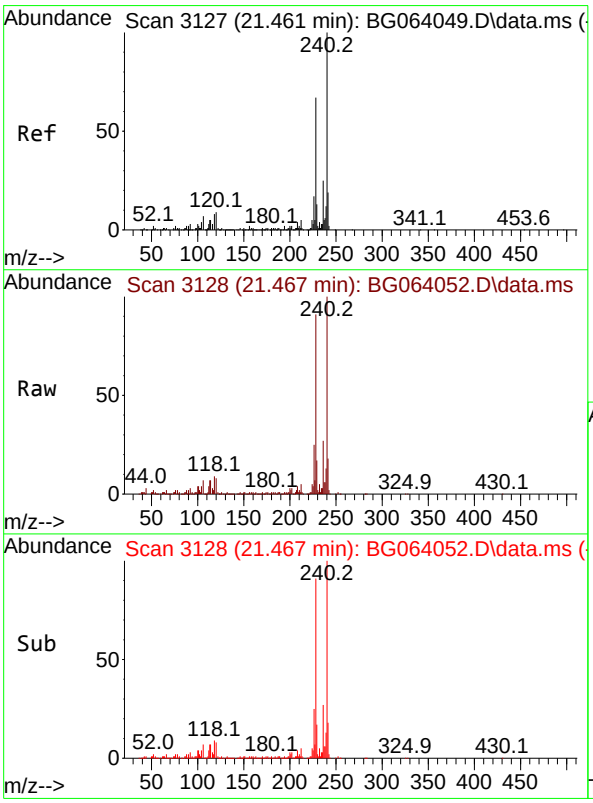
Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	30.5
203	17.9	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

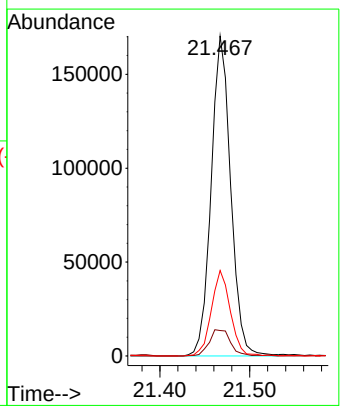
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

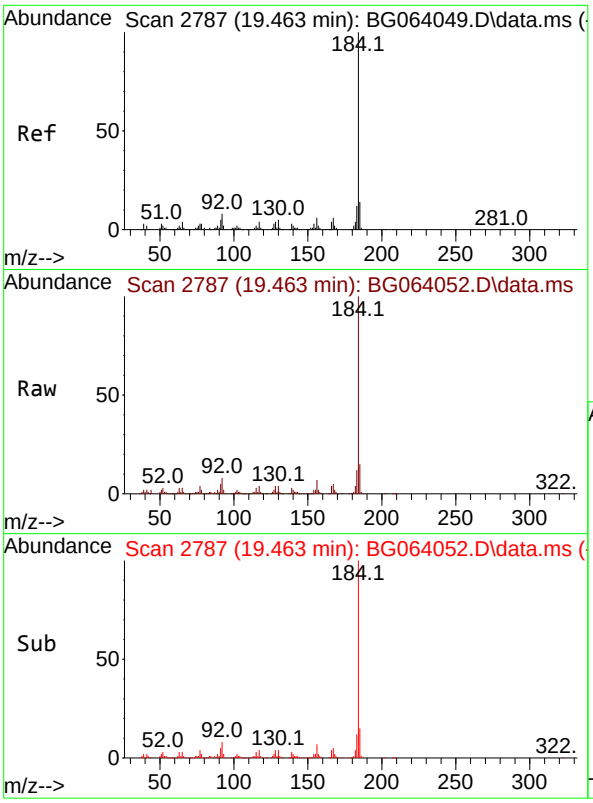


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.467 min Scan# 3128
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:240 Resp: 257789

Ion	Ratio	Lower	Upper
240	100		
120	8.0	7.2	10.8
236	26.7	20.2	30.2

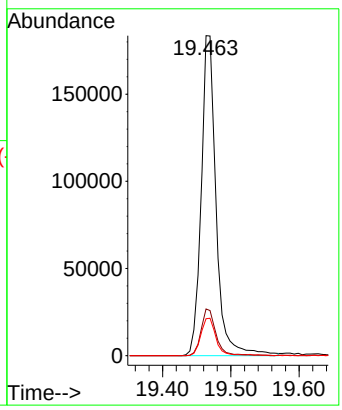




#77
Benzidine
Concen: 77.211 ng
RT: 19.463 min Scan# 2
Delta R.T. 0.000 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:184 Resp: 27941

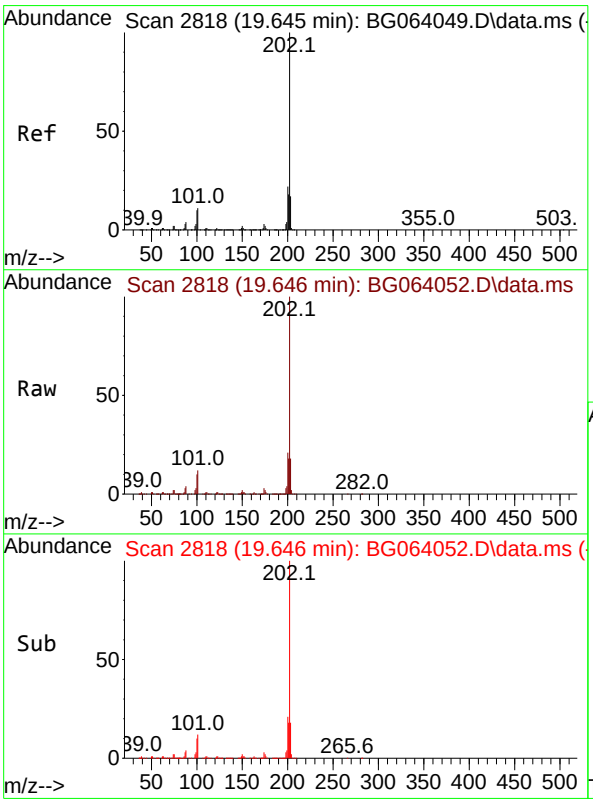
Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.3	16.9
183	11.6	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

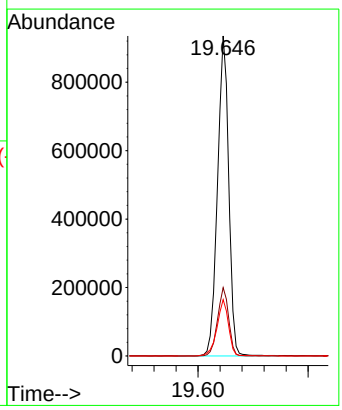
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

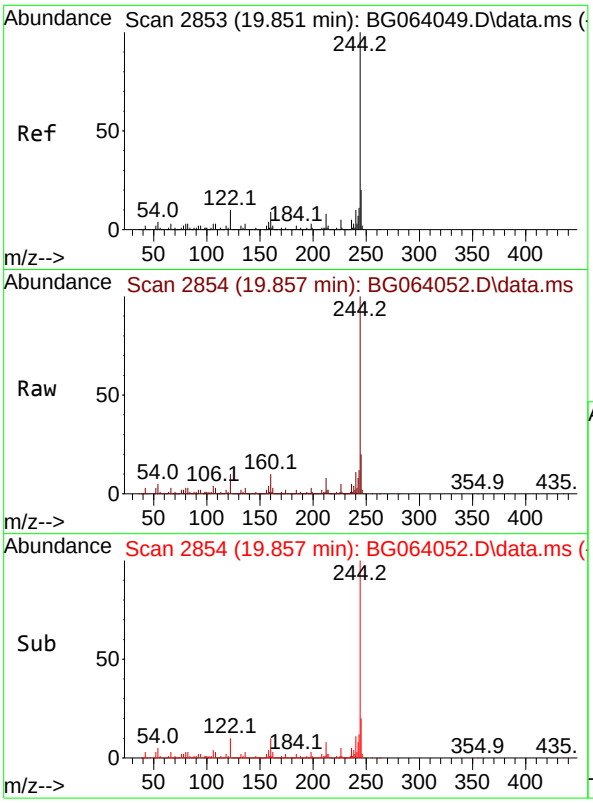


#78
Pyrene
Concen: 79.539 ng
RT: 19.646 min Scan# 2818
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:202 Resp: 1321748

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.3	25.9
203	17.6	13.6	20.4

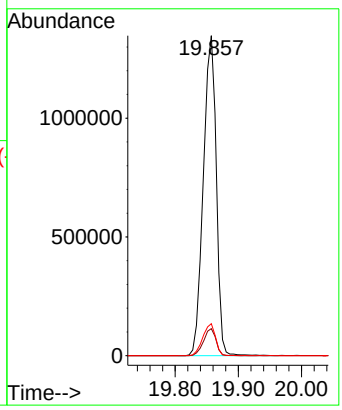




#79
Terphenyl-d14
Concen: 150.030 ng
RT: 19.857 min Scan# 2
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:244 Resp: 191276

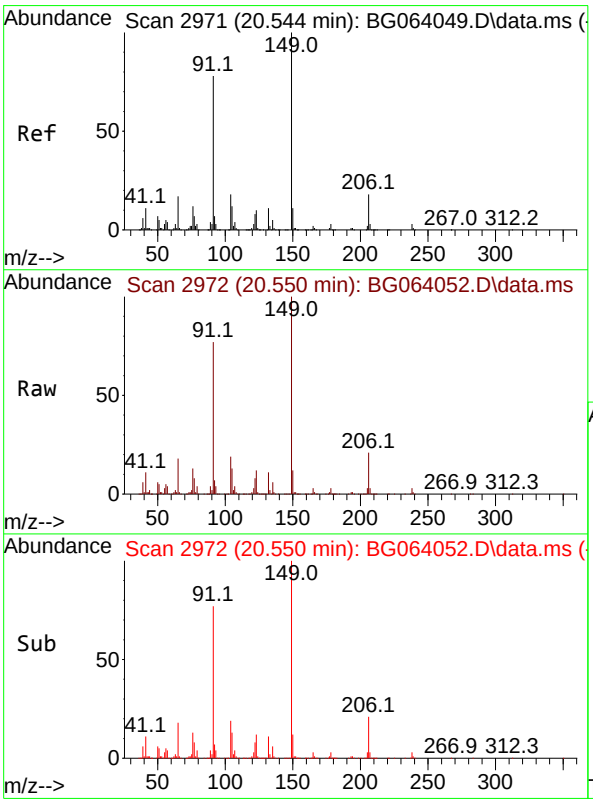
Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.2	9.4
122	10.0	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

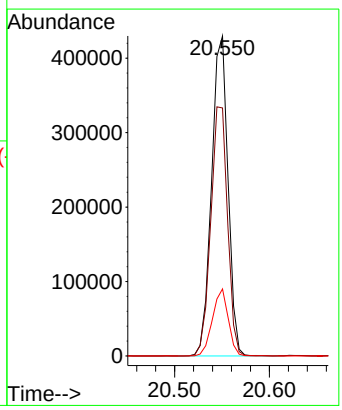
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

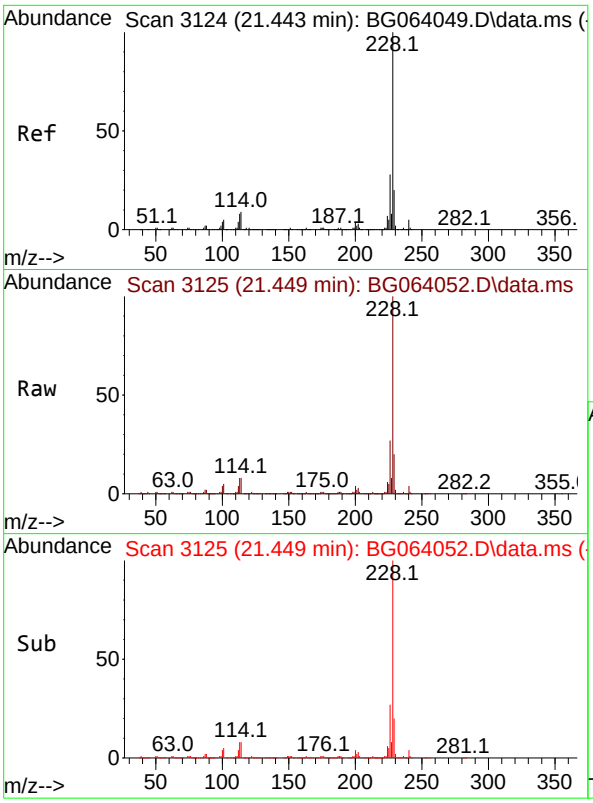


#80
Butylbenzylphthalate
Concen: 80.379 ng
RT: 20.550 min Scan# 2972
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:149 Resp: 517770

Ion	Ratio	Lower	Upper
149	100		
91	77.5	62.0	93.0
206	21.0	14.6	21.8

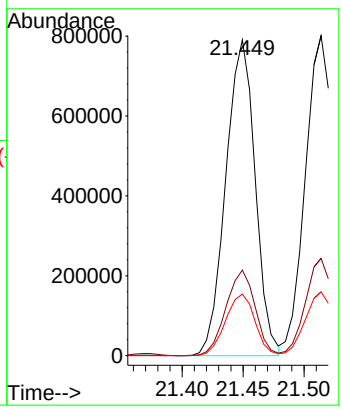




#81
Benzo(a)anthracene
Concen: 80.289 ng
RT: 21.449 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:228 Resp: 132582

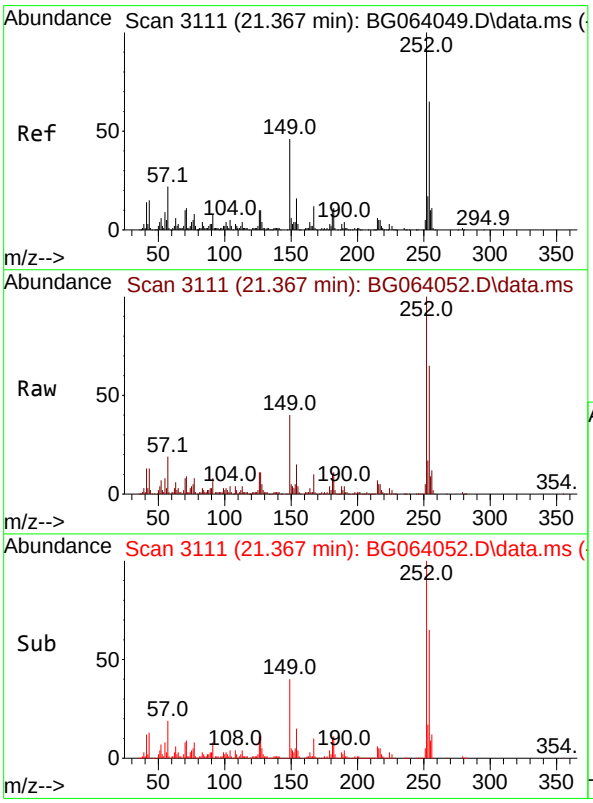
Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	19.5	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

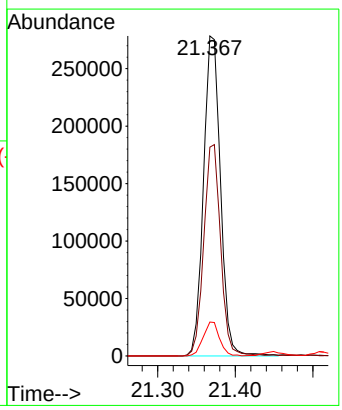
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

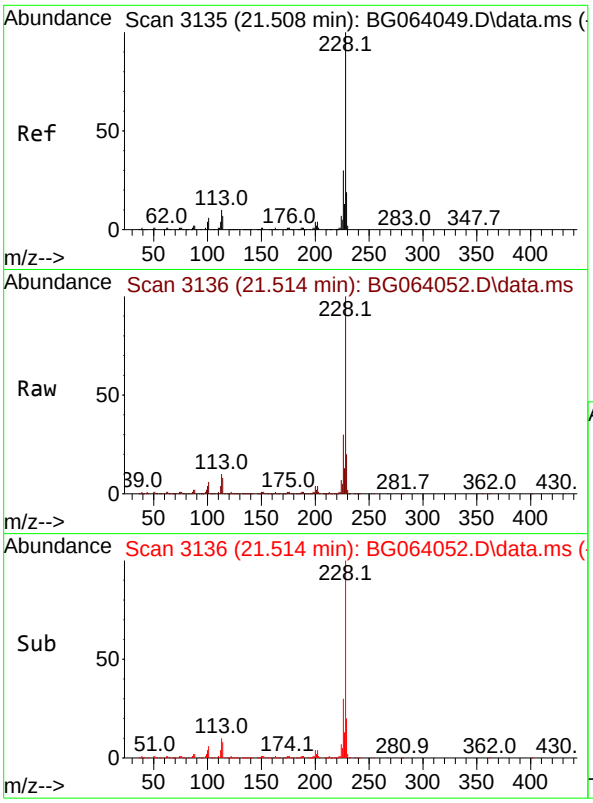


#82
3,3'-Dichlorobenzidine
Concen: 79.269 ng
RT: 21.367 min Scan# 3111
Delta R.T. 0.001 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 423636

Ion	Ratio	Lower	Upper
252	100		
254	65.3	52.1	78.1
126	10.6	7.8	11.8

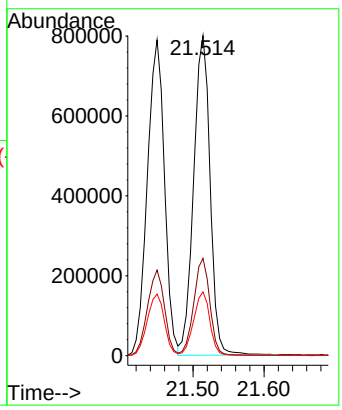




#83
Chrysene
Concen: 78.391 ng
RT: 21.514 min Scan# 3
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:228 Resp: 129108

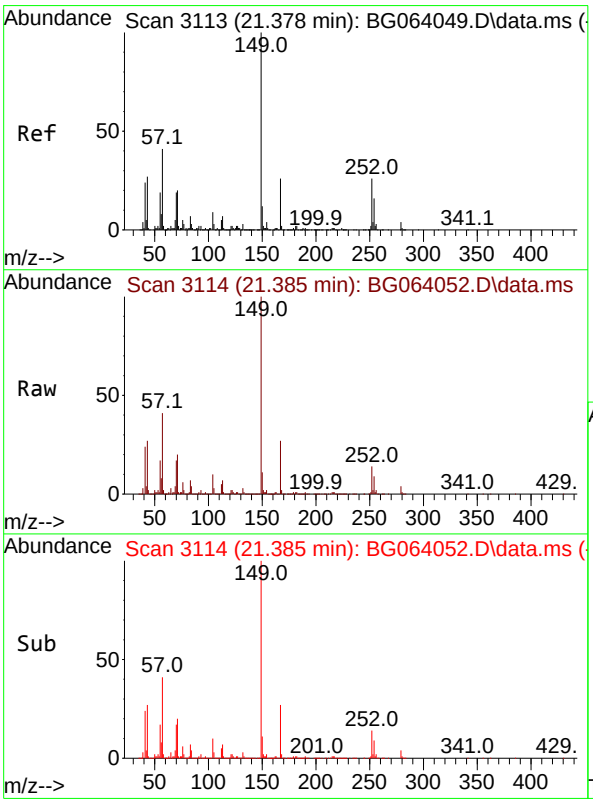
Ion	Ratio	Lower	Upper
228	100		
226	30.4	23.9	35.9
229	19.9	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

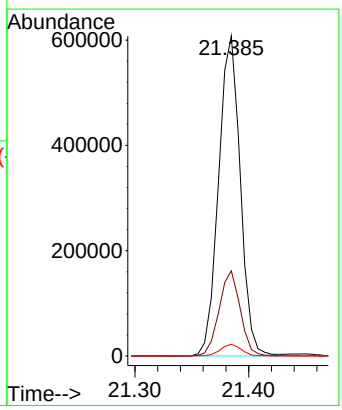
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

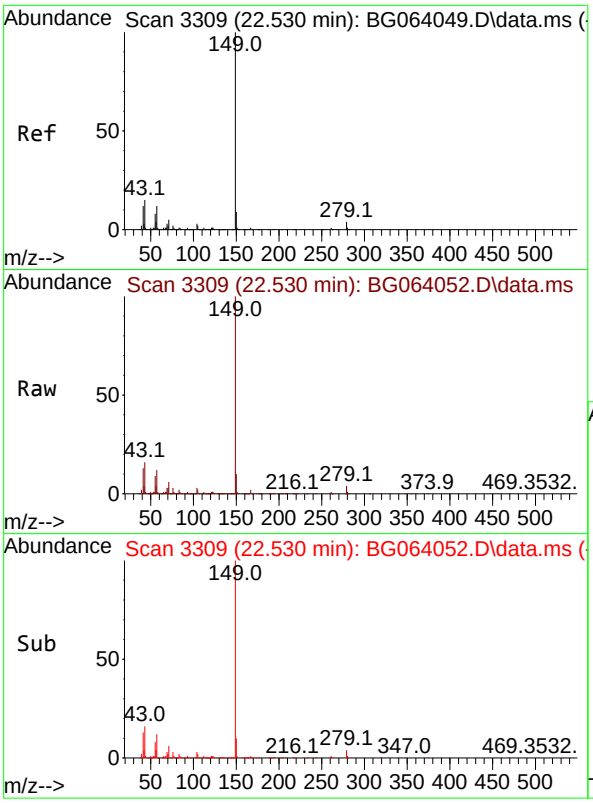


#84
Bis(2-ethylhexyl)phthalate
Concen: 90.273 ng
RT: 21.385 min Scan# 3114
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:149 Resp: 806194

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.0	31.6
279	3.6	2.8	4.2





#85
Di-n-octyl phthalate
Concen: 89.556 ng
RT: 22.530 min Scan# 3
Delta R.T. 0.000 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

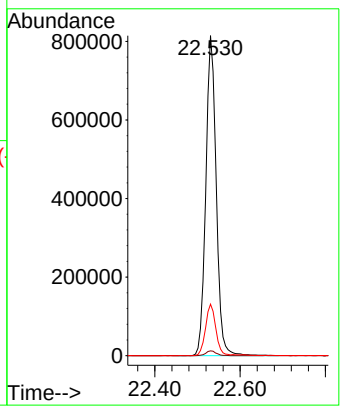
Tgt Ion:149 Resp: 137951

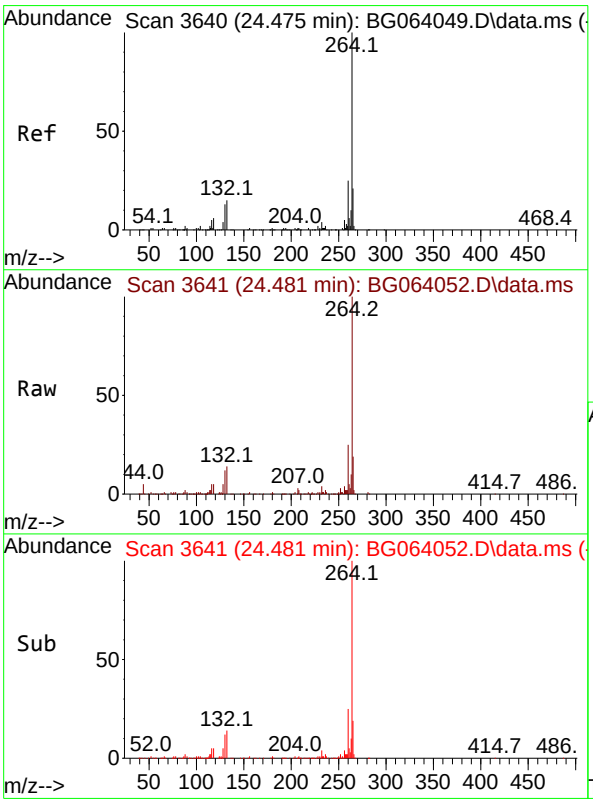
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	16.1	12.6	19.0

Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

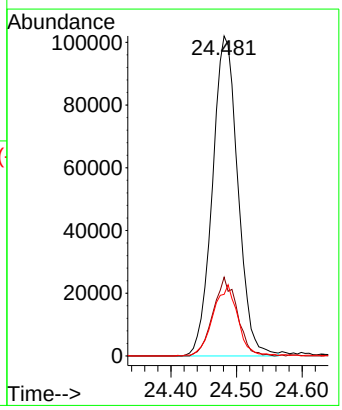


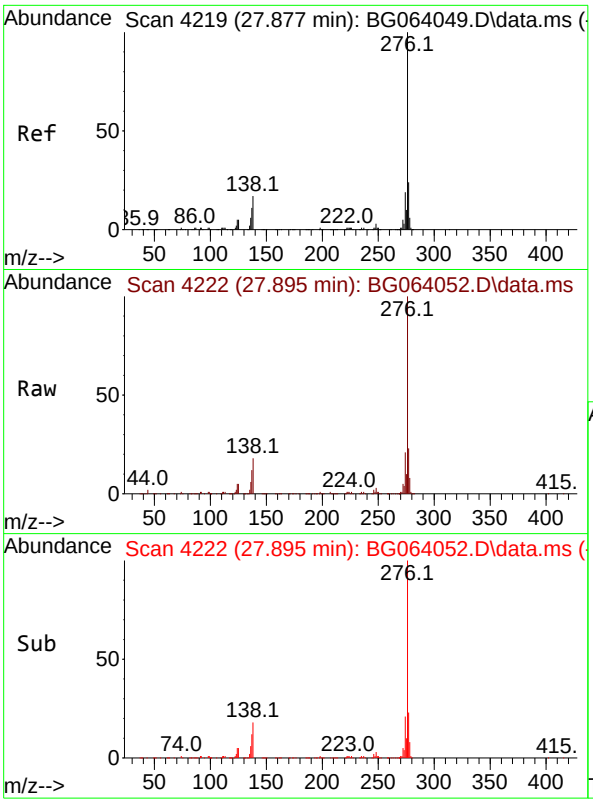


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.481 min Scan# 3641
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:264 Resp: 274554

Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.6	29.4
265	19.2	16.6	25.0

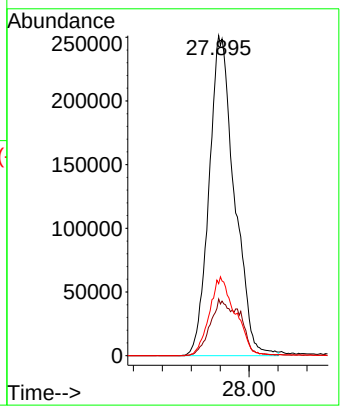




#87
Indeno(1,2,3-cd)pyrene
Concen: 83.318 ng
RT: 27.895 min Scan# 4
Delta R.T. 0.018 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:276 Resp: 153054

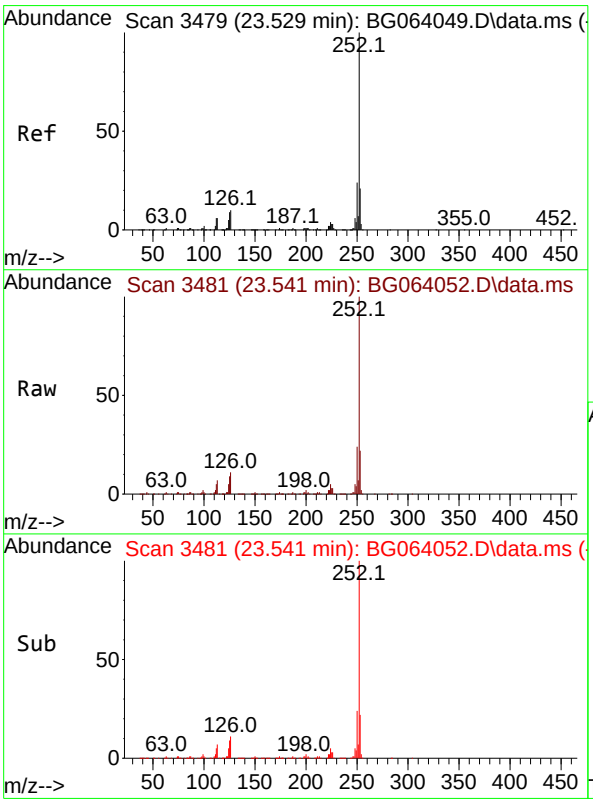
Ion	Ratio	Lower	Upper
276	100		
138	14.6	12.1	18.1
277	25.2	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

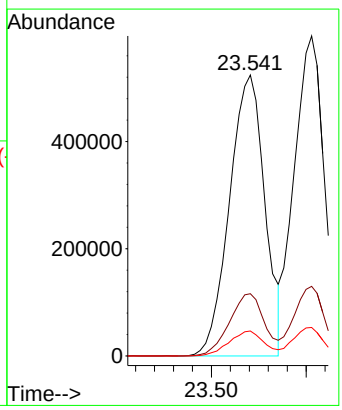
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

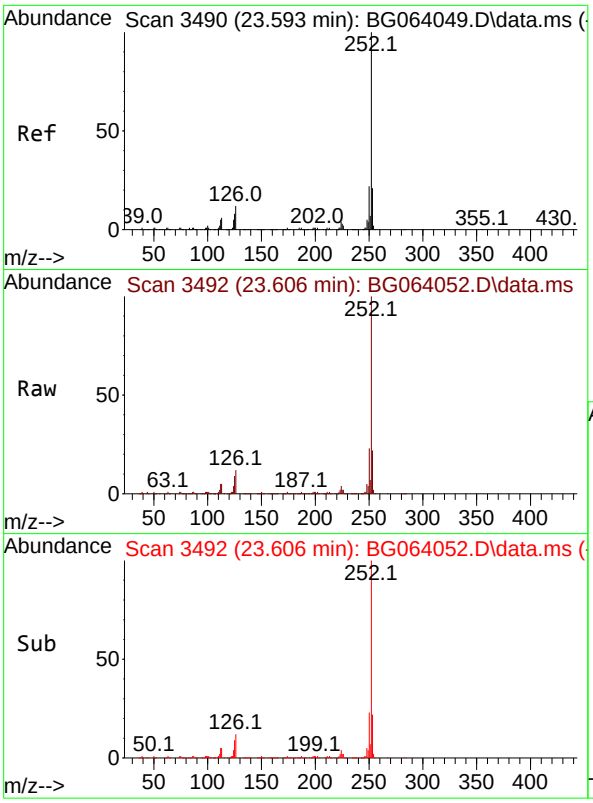


#88
Benzo(b)fluoranthene
Concen: 81.758 ng
RT: 23.541 min Scan# 3481
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 1356996

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	8.9	7.4	11.2

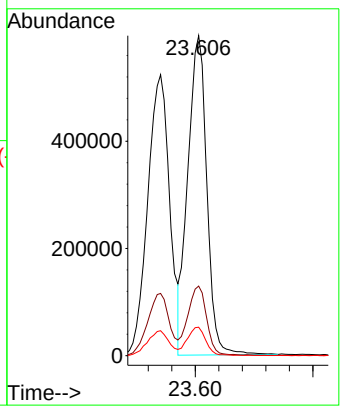




#89
Benzo(k)fluoranthene
Concen: 80.120 ng
RT: 23.606 min Scan# 34
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 133408

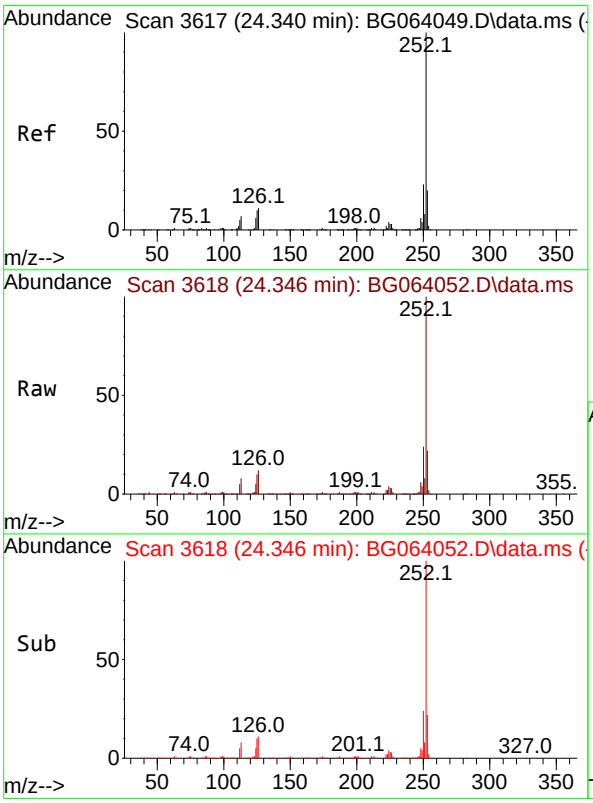
Ion	Ratio	Lower	Upper
252	100		
253	21.8	16.8	25.2
125	8.9	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

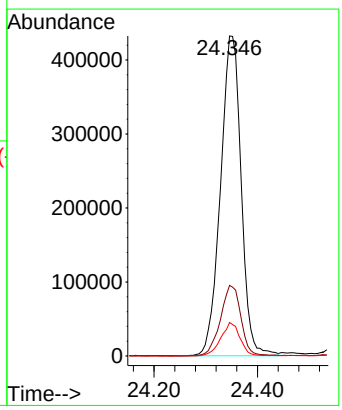
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

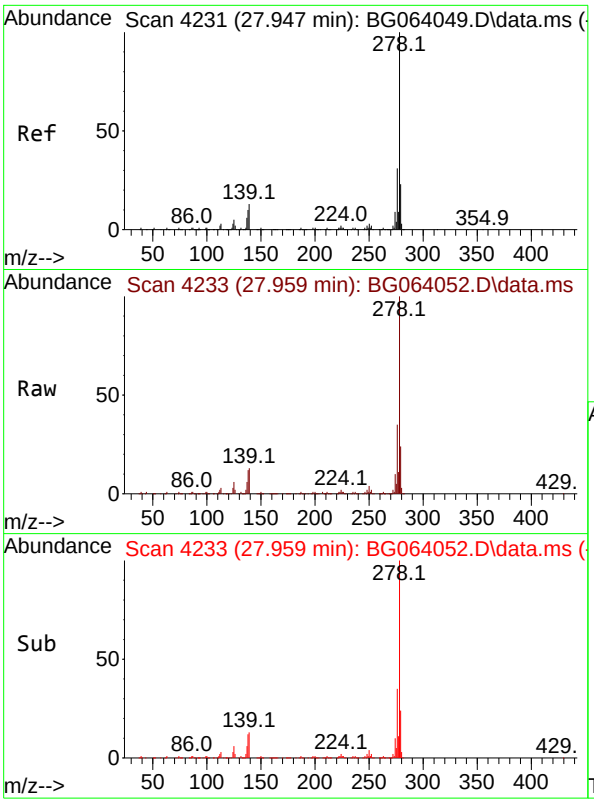


#90
Benzo(a)pyrene
Concen: 81.191 ng
RT: 24.346 min Scan# 3618
Delta R.T. 0.006 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:252 Resp: 1200152

Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.2	24.2
125	10.5	7.8	11.6

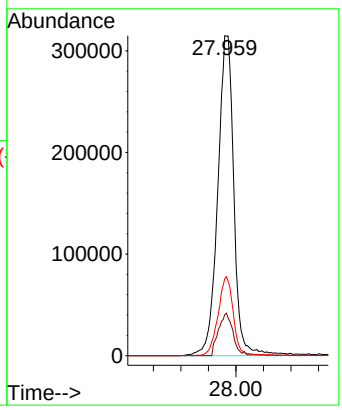




#91
Dibenzo(a,h)anthracene
Concen: 83.647 ng
RT: 27.959 min Scan# 4
Delta R.T. 0.012 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:278 Resp: 127388

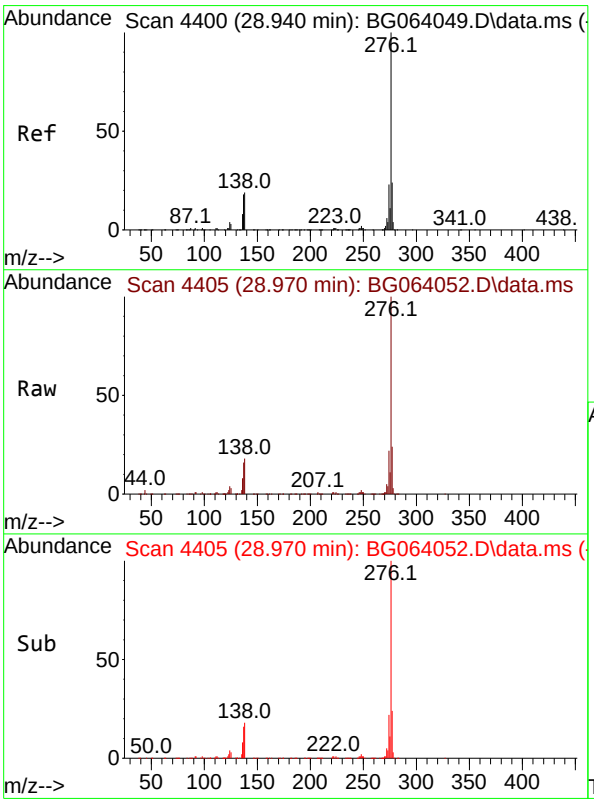
Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.2	15.2
279	24.1	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

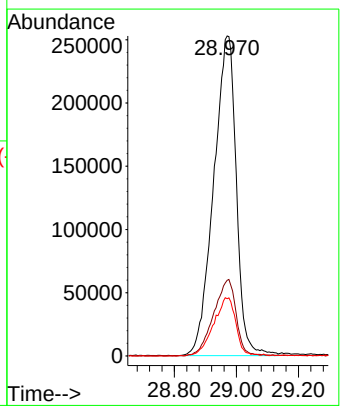
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 82.048 ng
RT: 28.970 min Scan# 4405
Delta R.T. 0.030 min
Lab File: BG064052.D
Acq: 5 Mar 2025 13:44

Tgt Ion:276 Resp: 1282909

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.5	29.3
138	17.9	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.861	152	35090	20.000	ng		0.00
21) Naphthalene-d8	10.652	136	145084	20.000	ng	#	0.00
39) Acenaphthene-d10	14.489	164	93726	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	217148	20.000	ng		0.00
76) Chrysene-d12	21.463	240	246166	20.000	ng		0.00
86) Perylene-d12	24.483	264	261789	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.446	112	177138	78.823	ng		0.00
7) Phenol-d6	7.021	99	230804	75.496	ng		0.00
23) Nitrobenzene-d5	9.013	82	221265	84.279	ng		0.00
42) 2,4,6-Tribromophenol	15.975	330	94089	90.311	ng		0.00
45) 2-Fluorobiphenyl	13.114	172	495129	80.186	ng		0.00
79) Terphenyl-d14	19.853	244	940889	77.284	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.378	88	40961	40.218	ng		97
3) Pyridine	3.760	79	98907	39.931	ng		98
4) n-Nitrosodimethylamine	3.678	42	70753	39.980	ng		94
6) Aniline	7.186	93	112627	37.544	ng		97
8) 2-Chlorophenol	7.426	128	92723	38.417	ng		97
9) Benzaldehyde	6.997	77	67720m	38.087	ng		
10) Phenol	7.050	94	121465	38.806	ng		98
11) bis(2-Chloroethyl)ether	7.285	93	90358	36.822	ng		97
12) 1,3-Dichlorobenzene	7.750	146	97739	36.876	ng		98
13) 1,4-Dichlorobenzene	7.896	146	99638	36.676	ng		98
14) 1,2-Dichlorobenzene	8.214	146	96129	36.695	ng		97
15) Benzyl Alcohol	8.096	79	89828	38.023	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.390	45	201622	36.540	ng		99
17) 2-Methylphenol	8.296	107	78276	37.680	ng		97
18) Hexachloroethane	8.942	117	37454	39.404	ng		97
19) n-Nitroso-di-n-propyla...	8.666	70	76484	35.648	ng		98
20) 3+4-Methylphenols	8.619	107	106291	37.166	ng		95
22) Acetophenone	8.678	105	156271	39.285	ng	#	99
24) Nitrobenzene	9.054	77	114521	42.208	ng		98
25) Isophorone	9.577	82	198754	37.823	ng		97
26) 2-Nitrophenol	9.765	139	36978	40.946	ng		92
27) 2,4-Dimethylphenol	9.824	122	63231	40.139	ng		97
28) bis(2-Chloroethoxy)met...	10.064	93	123038	38.620	ng		99
29) 2,4-Dichlorophenol	10.294	162	81863	41.154	ng		93
30) 1,2,4-Trichlorobenzene	10.517	180	93175	38.802	ng		93
31) Naphthalene	10.699	128	308258	39.402	ng		98
32) Benzoic acid	9.953	122	51607m	37.906	ng		
33) 4-Chloroaniline	10.805	127	114228	39.949	ng		98
34) Hexachlorobutadiene	10.993	225	62517	39.720	ng		99
35) Caprolactam	11.563	113	32080	42.084	ng	#	85
36) 4-Chloro-3-methylphenol	11.927	107	103382	39.649	ng		96
37) 2-Methylnaphthalene	12.309	142	212431	38.463	ng		97
38) 1-Methylnaphthalene	12.532	142	209530	38.724	ng		94
40) 1,2,4,5-Tetrachloroben...	12.679	216	106041	39.630	ng		95
41) Hexachlorocyclopentadiene	12.667	237	33041	43.873	ng		98
43) 2,4,6-Trichlorophenol	12.914	196	66496	42.165	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.985	196	74580	42.561	ng		95
46) 1,1'-Biphenyl	13.325	154	284632	40.196	ng		98
47) 2-Chloronaphthalene	13.361	162	208172	40.309	ng		97
48) 2-Nitroaniline	13.560	65	68823	41.405	ng		98
49) Acenaphthylene	14.207	152	331135	40.537	ng		100
50) Dimethylphthalate	13.948	163	274751	39.712	ng		99
51) 2,6-Dinitrotoluene	14.060	165	56243	40.625	ng		99
52) Acenaphthene	14.553	154	221628m	40.428	ng		
53) 3-Nitroaniline	14.389	138	60229	45.042	ng		97
54) 2,4-Dinitrophenol	14.589	184	21627	41.197	ng		86
55) Dibenzofuran	14.888	168	355364	40.014	ng		99
56) 4-Nitrophenol	14.688	139	53310	47.537	ng		96
57) 2,4-Dinitrotoluene	14.847	165	80269	41.944	ng	#	97
58) Fluorene	15.535	166	279465	40.403	ng		96
59) 2,3,4,6-Tetrachlorophenol	15.111	232	73574	43.068	ng		96
60) Diethylphthalate	15.317	149	309434	41.198	ng		99
61) 4-Chlorophenyl-phenyle...	15.535	204	135318	39.367	ng		95
62) 4-Nitroaniline	15.546	138	65797	45.576	ng		91
63) Azobenzene	15.822	77	321688	40.137	ng		99
65) 4,6-Dinitro-2-methylph...	15.611	198	35775	39.817	ng		95
66) n-Nitrosodiphenylamine	15.746	169	241241	39.248	ng		99
67) 4-Bromophenyl-phenylether	16.428	248	88452	39.772	ng		97
68) Hexachlorobenzene	16.539	284	96136	38.611	ng		97
69) Atrazine	16.692	200	69821	38.607	ng		95
70) Pentachlorophenol	16.880	266	66504	43.019	ng		97
71) Phenanthrene	17.274	178	463029	39.978	ng		97
72) Anthracene	17.362	178	463897	40.280	ng		99
73) Carbazole	17.626	167	449805	41.831	ng		99
74) Di-n-butylphthalate	18.208	149	565797	44.702	ng		99
75) Fluoranthene	19.283	202	588493	42.146	ng		97
77) Benzidine	19.465	184	127428	37.383	ng		98
78) Pyrene	19.641	202	608668	38.357	ng		99
80) Butylbenzylphthalate	20.546	149	238653	40.680	ng		96
81) Benzo(a)anthracene	21.445	228	624403	39.598	ng		98
82) 3,3'-Dichlorobenzidine	21.369	252	209761	41.103	ng		99
83) Chrysene	21.504	228	611410	38.876	ng		99
84) Bis(2-ethylhexyl)phtha...	21.381	149	379928	44.551	ng		99
85) Di-n-octyl phthalate	22.532	149	627920	42.688	ng		100
87) Indeno(1,2,3-cd)pyrene	27.885	276	699194	39.918	ng		100
88) Benzo(b)fluoranthene	23.531	252	615644	38.901	ng		99
89) Benzo(k)fluoranthene	23.596	252	620446	39.079	ng		98
90) Benzo(a)pyrene	24.342	252	546383	38.765	ng		99
91) Dibenzo(a,h)anthracene	27.949	278	583198	40.162	ng		98
92) Benzo(g,h,i)perylene	28.936	276	592494	39.740	ng		98

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

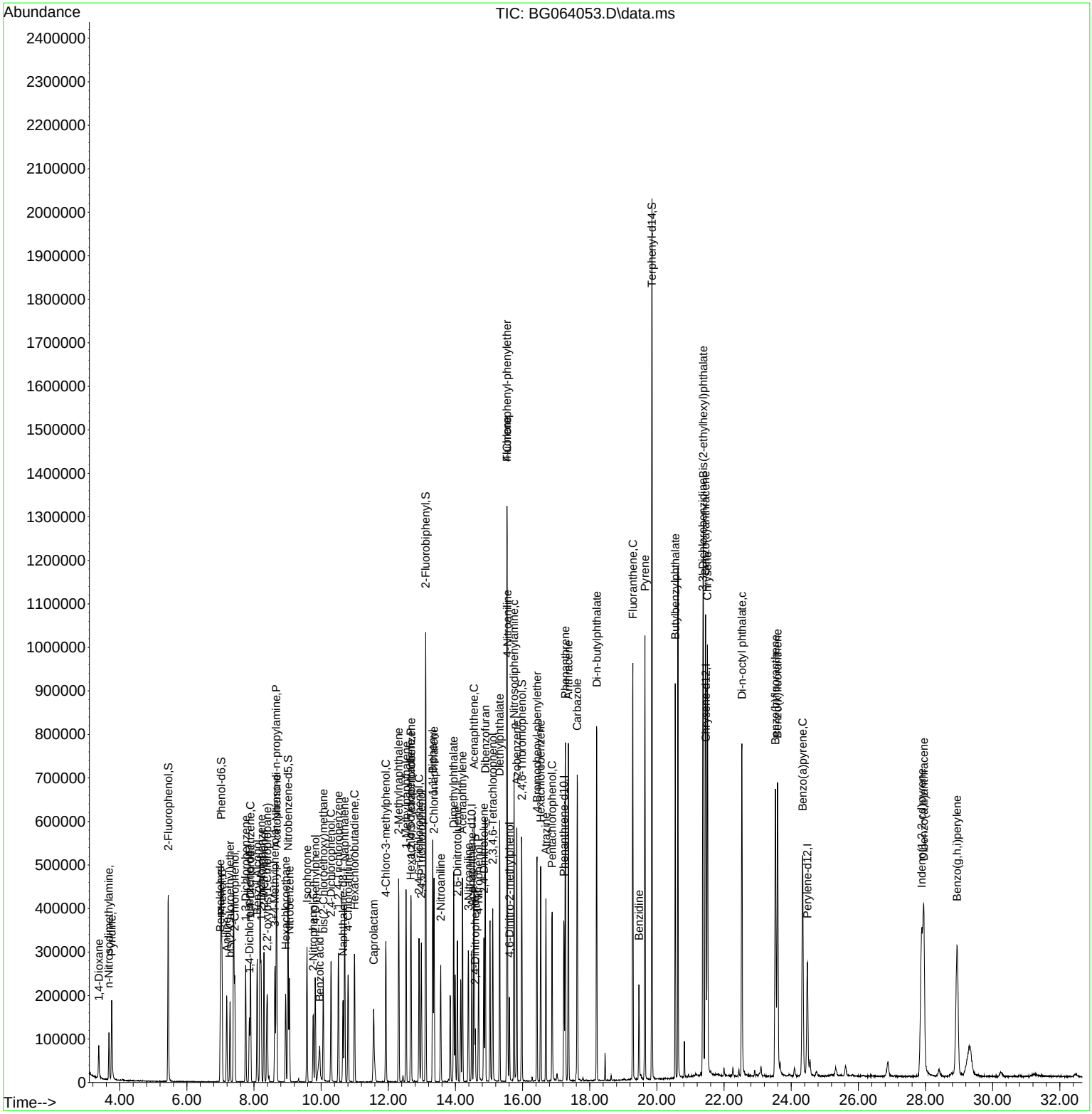
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

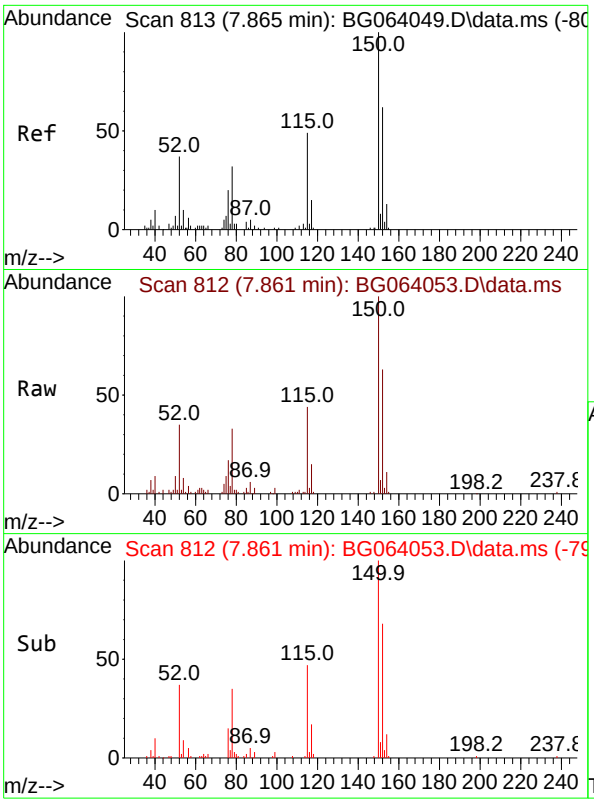
Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

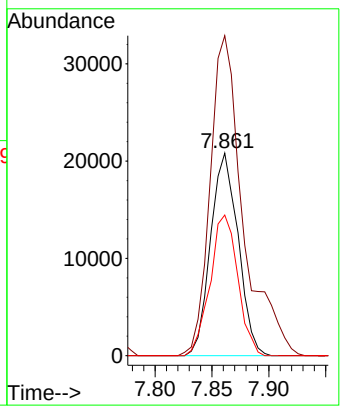




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:152 Resp: 3509

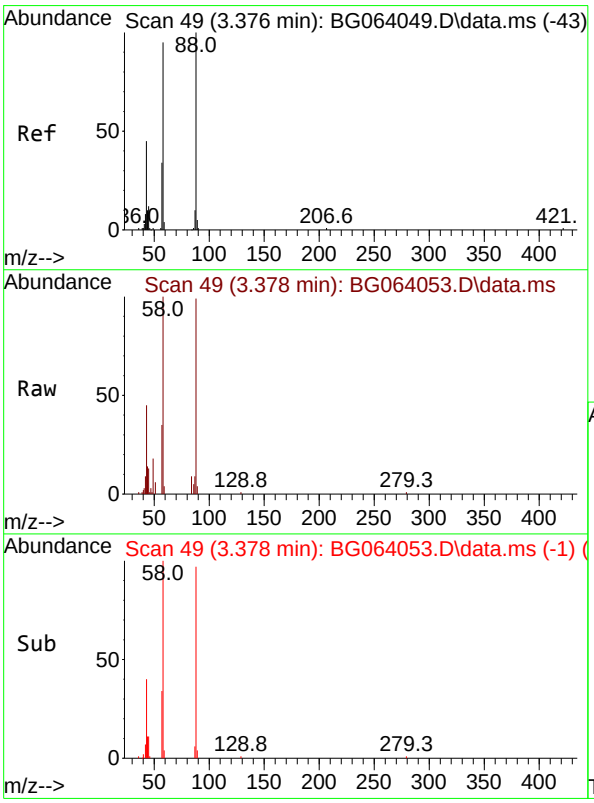
Ion	Ratio	Lower	Upper
152	100		
150	158.0	129.2	193.8
115	69.5	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

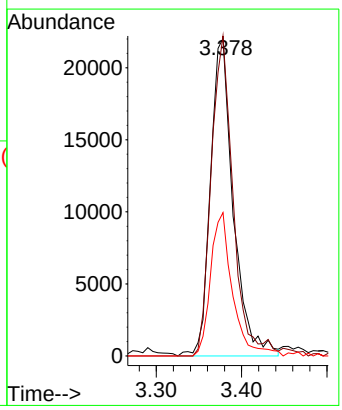
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

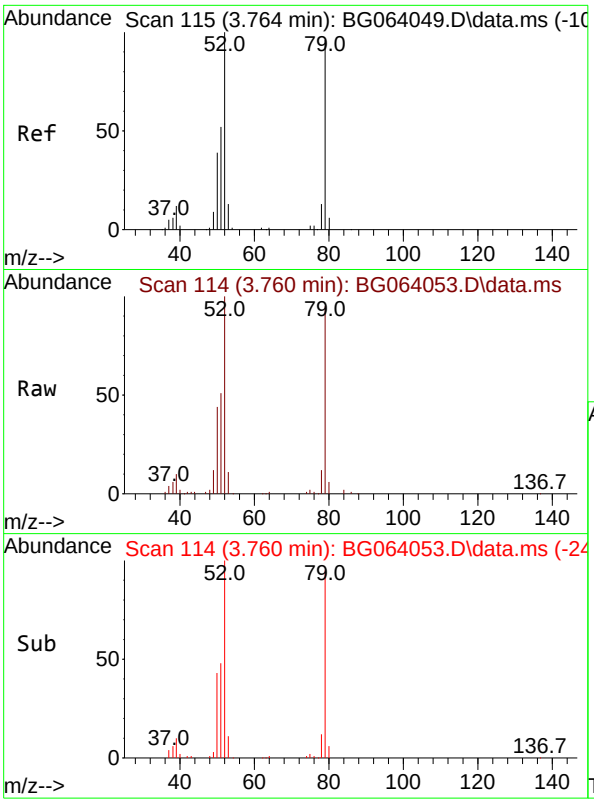


#2
1,4-Dioxane
Concen: 40.218 ng
RT: 3.378 min Scan# 49
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 88 Resp: 40961

Ion	Ratio	Lower	Upper
88	100		
58	96.9	74.6	111.8
43	43.3	35.5	53.3

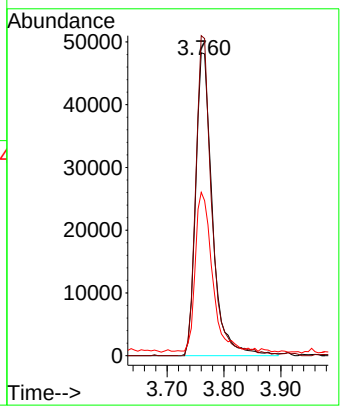




#3
Pyridine
Concen: 39.931 ng
RT: 3.760 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 79 Resp: 9890

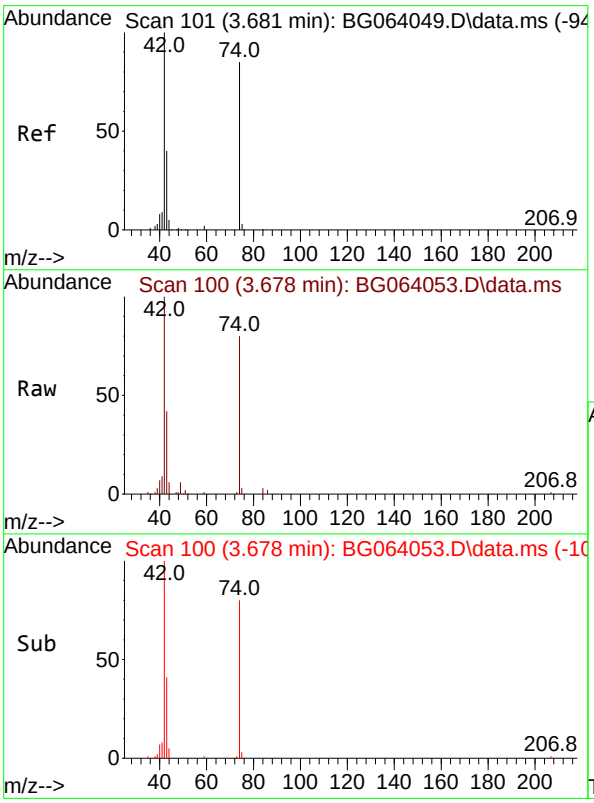
Ion	Ratio	Lower	Upper
79	100		
52	105.6	83.0	124.6
51	54.0	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

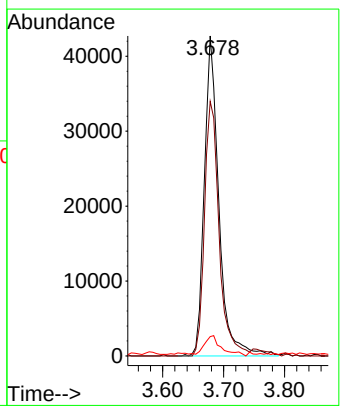
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

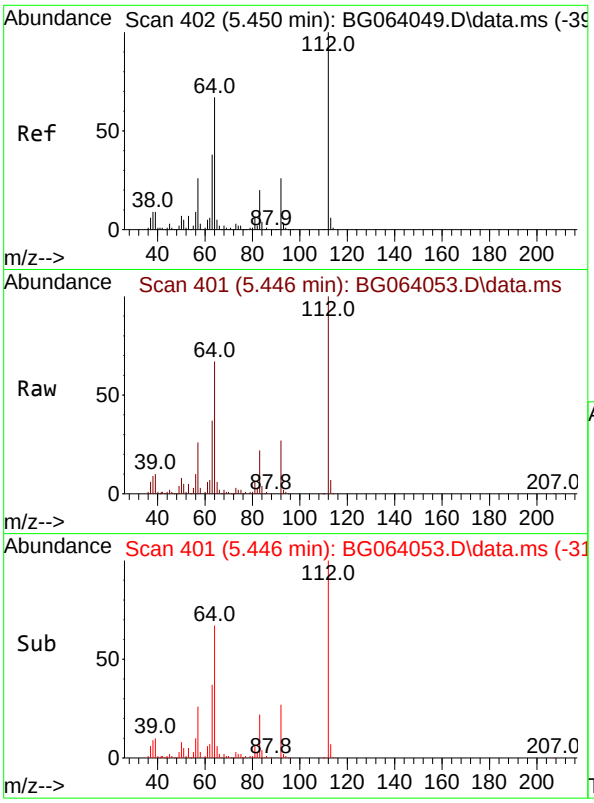


#4
n-Nitrosodimethylamine
Concen: 39.980 ng
RT: 3.678 min Scan# 100
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 42 Resp: 70753

Ion	Ratio	Lower	Upper
42	100		
74	79.5	68.0	102.0
44	6.0	4.9	7.3

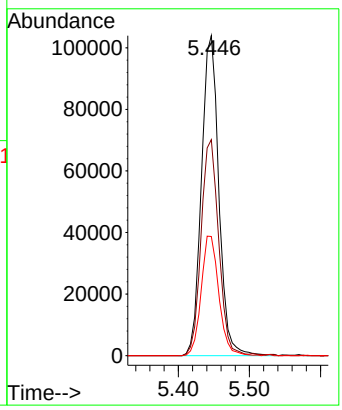




#5
2-Fluorophenol
Concen: 78.823 ng
RT: 5.446 min Scan# 4(
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:112 Resp: 17713

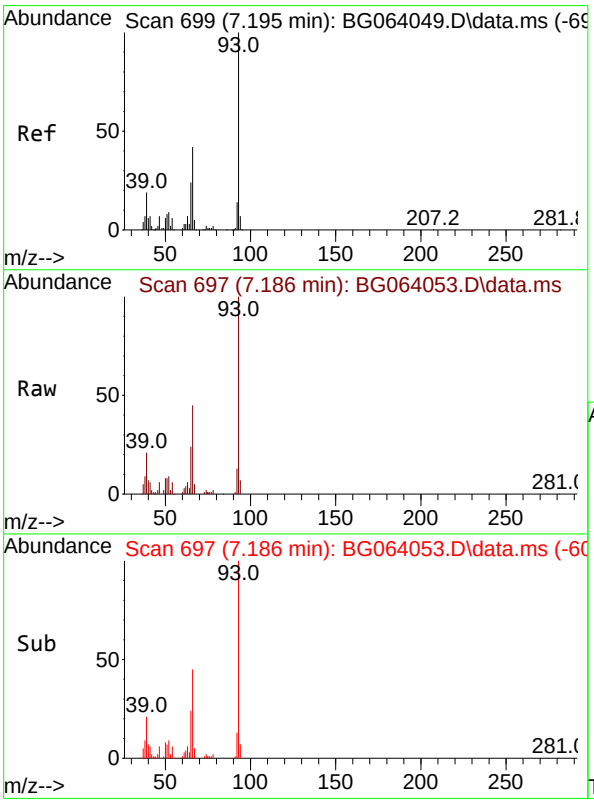
Ion	Ratio	Lower	Upper
112	100		
64	67.5	53.7	80.5
63	37.2	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

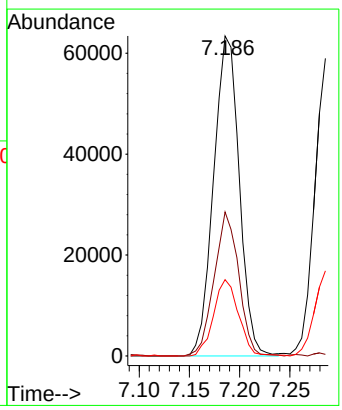
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

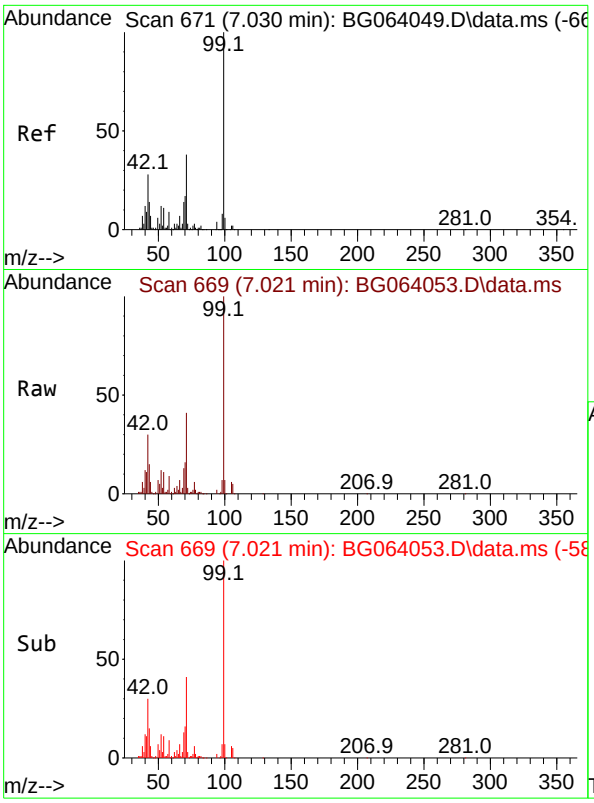


#6
Aniline
Concen: 37.544 ng
RT: 7.186 min Scan# 697
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 93 Resp: 112627

Ion	Ratio	Lower	Upper
93	100		
66	45.0	33.7	50.5
65	23.8	19.1	28.7

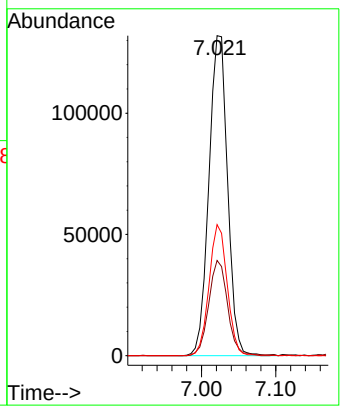




#7
Phenol-d6
Concen: 75.496 ng
RT: 7.021 min Scan# 6
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 99 Resp: 23080

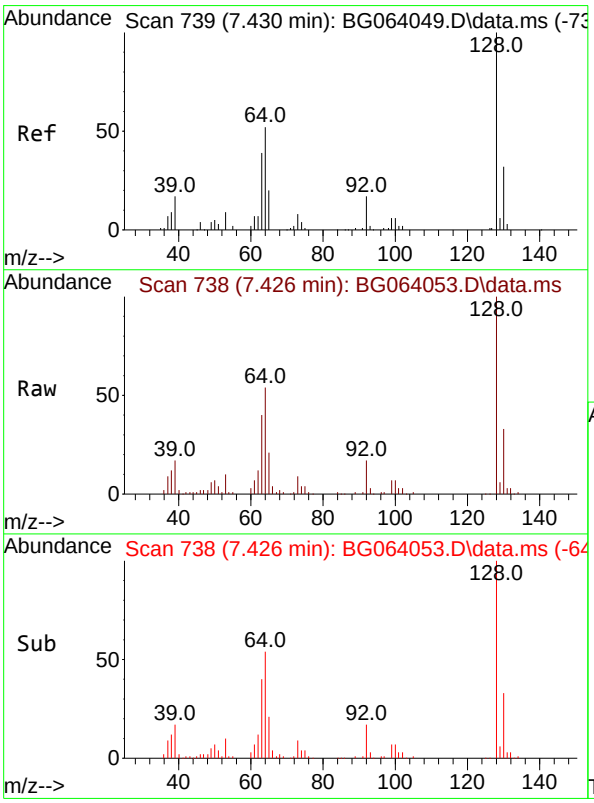
Ion	Ratio	Lower	Upper
99	100		
42	29.8	22.7	34.1
71	41.0	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

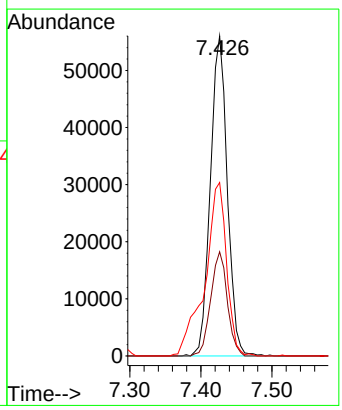
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

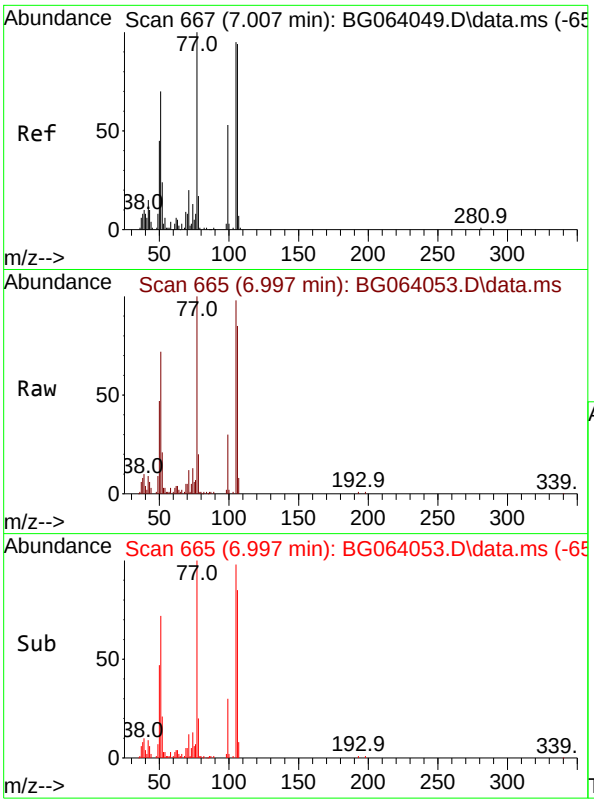


#8
2-Chlorophenol
Concen: 38.417 ng
RT: 7.426 min Scan# 738
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:128 Resp: 92723

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.3	52.3
64	54.2	37.0	77.0

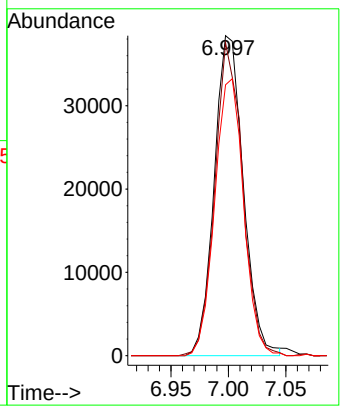




#9
Benzaldehyde
Concen: 38.087 ng m
RT: 6.997 min Scan# 6
Delta R.T. -0.010 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 77 Resp: 6772

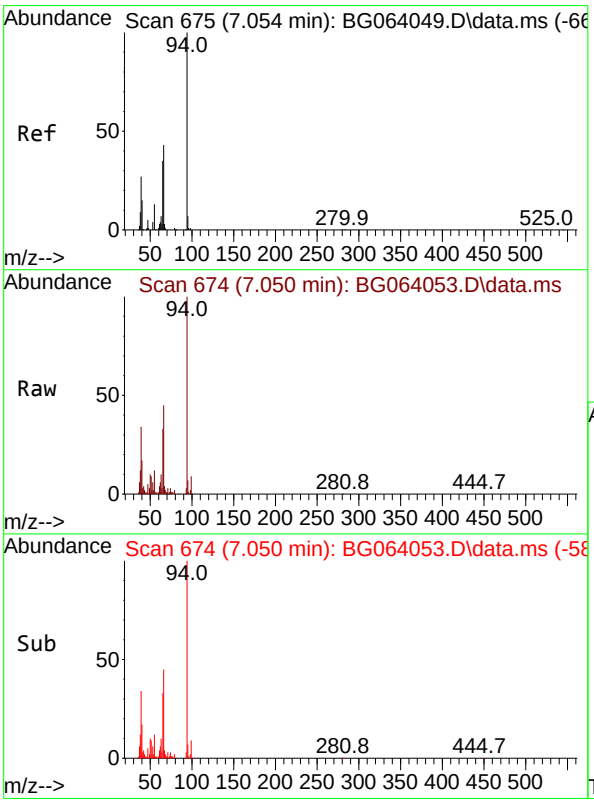
Ion	Ratio	Lower	Upper
77	100		
105	97.8	75.5	115.5
106	84.6	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

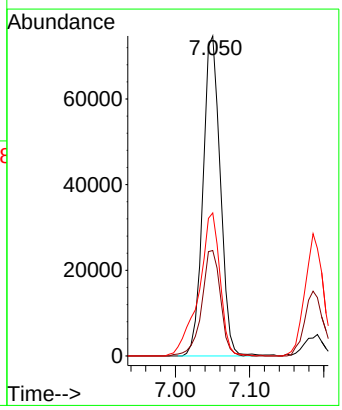
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

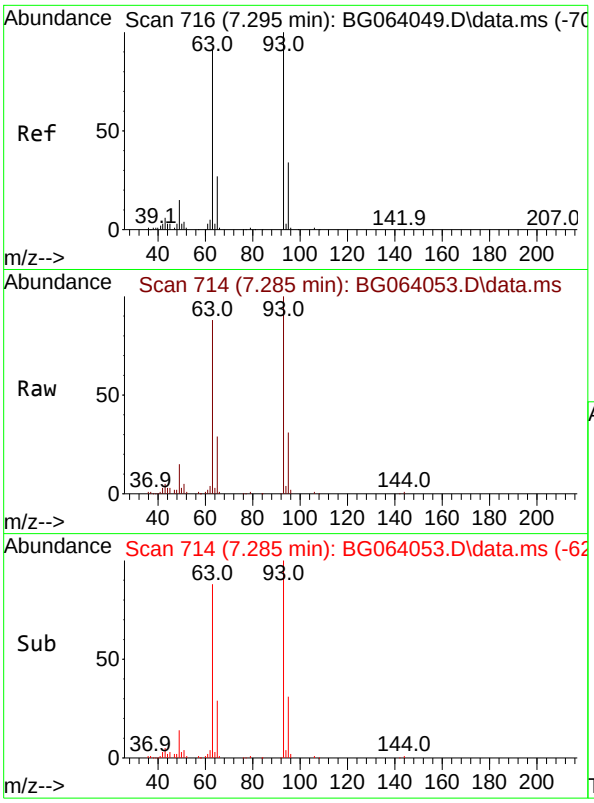


#10
Phenol
Concen: 38.806 ng
RT: 7.050 min Scan# 674
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 94 Resp: 121465

Ion	Ratio	Lower	Upper
94	100		
65	33.0	15.2	55.2
66	44.7	25.1	65.1

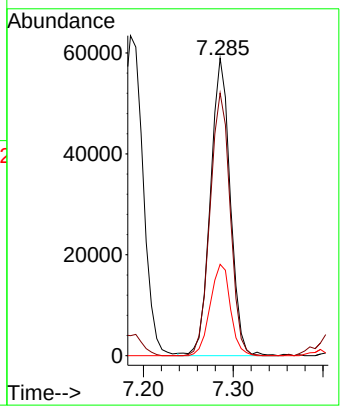




#11
bis(2-Chloroethyl)ether
Concen: 36.822 ng
RT: 7.285 min Scan# 7
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 93 Resp: 9035

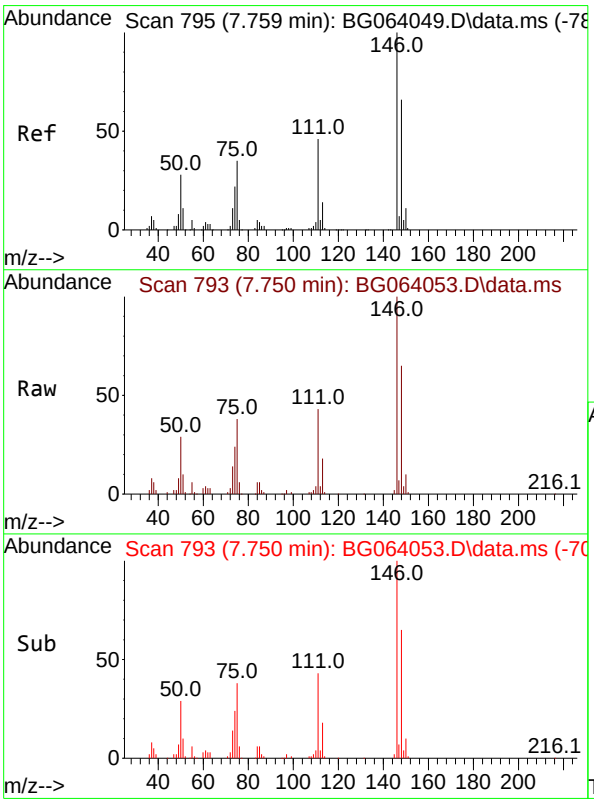
Ion	Ratio	Lower	Upper
93	100		
63	88.3	70.0	110.0
95	30.7	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

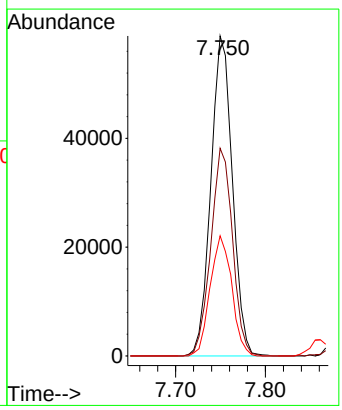
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

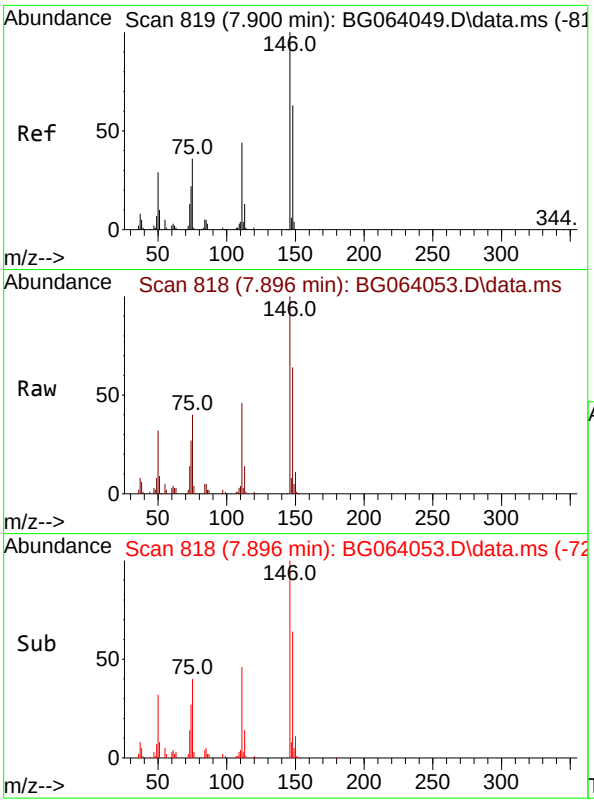


#12
1,3-Dichlorobenzene
Concen: 36.876 ng
RT: 7.750 min Scan# 793
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:146 Resp: 97739

Ion	Ratio	Lower	Upper
146	100		
148	64.9	52.6	78.8
75	37.6	28.1	42.1

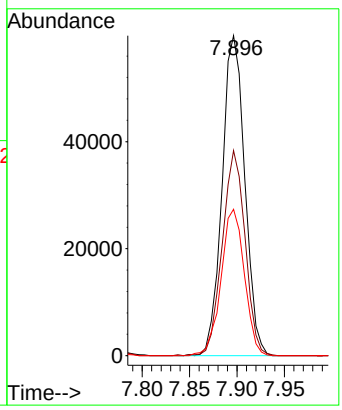




#13
1,4-Dichlorobenzene
Concen: 36.676 ng
RT: 7.896 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:146 Resp: 9963

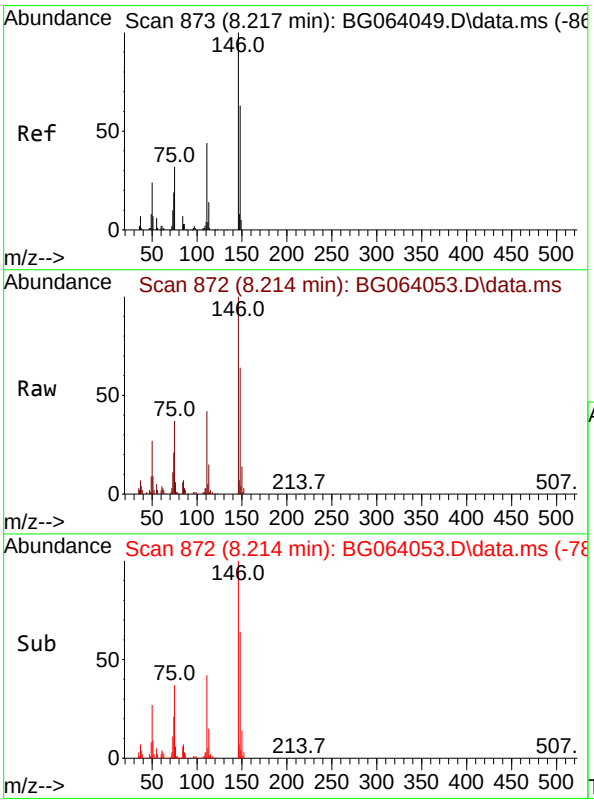
Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.6	75.8
111	45.8	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

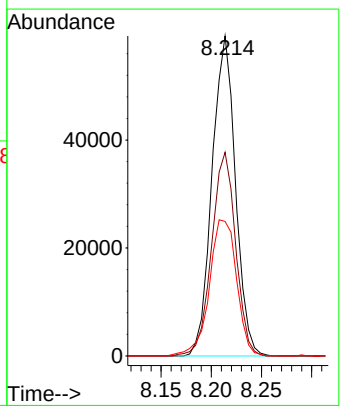
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

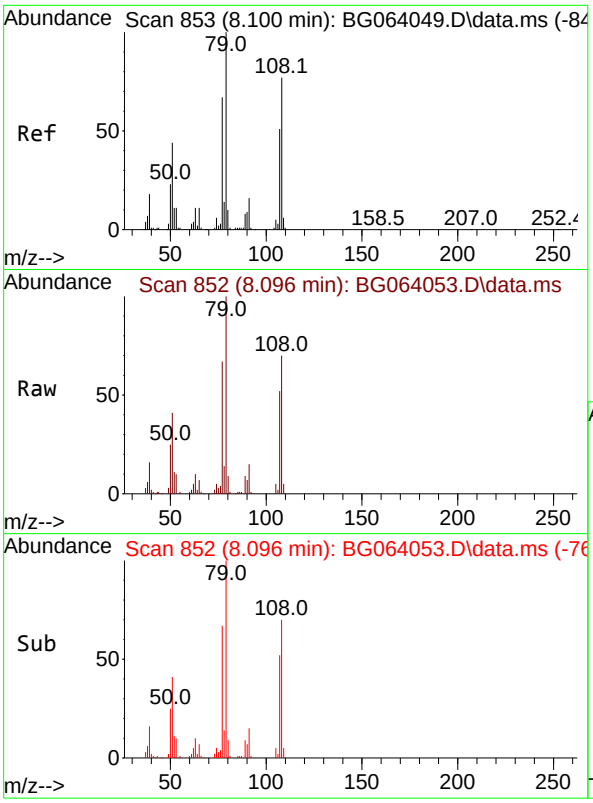


#14
1,2-Dichlorobenzene
Concen: 36.695 ng
RT: 8.214 min Scan# 872
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:146 Resp: 96129

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.2	75.2
111	42.1	36.4	54.6





#15
Benzyl Alcohol
Concen: 38.023 ng
RT: 8.096 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

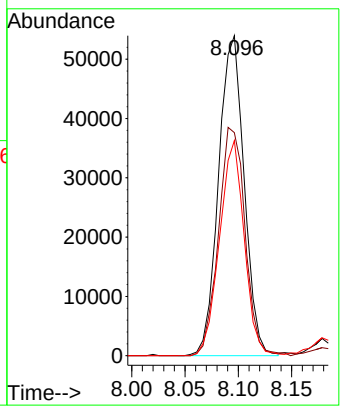
Tgt Ion: 79 Resp: 8982

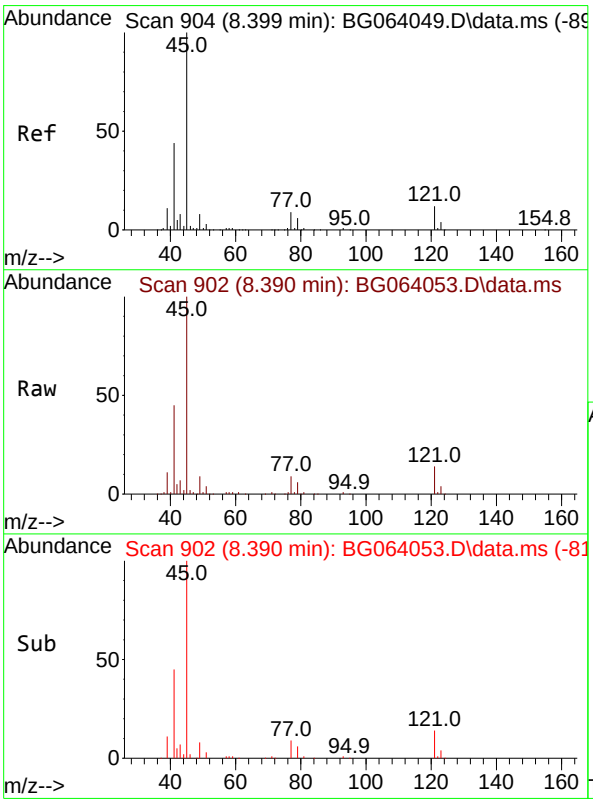
Ion	Ratio	Lower	Upper
79	100		
108	69.7	61.7	92.5
77	67.2	53.9	80.9

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

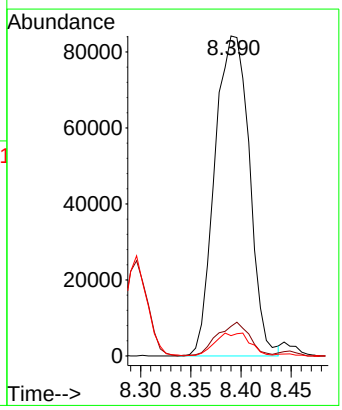


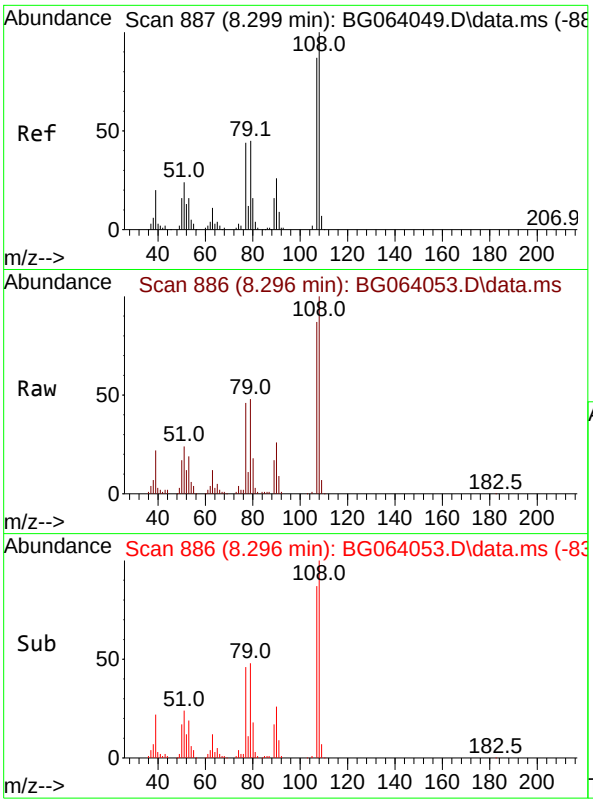


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.540 ng
RT: 8.390 min Scan# 902
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 45 Resp: 201622

Ion	Ratio	Lower	Upper
45	100		
77	9.3	0.0	29.0
79	6.4	0.0	26.6

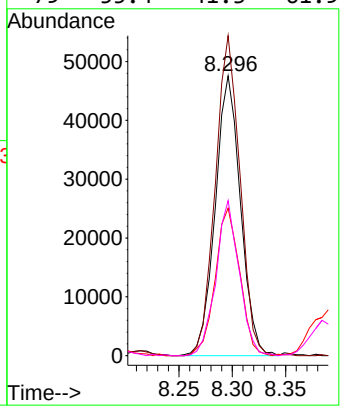




#17
2-Methylphenol
Concen: 37.680 ng
RT: 8.296 min Scan# 8
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:107 Resp: 7827

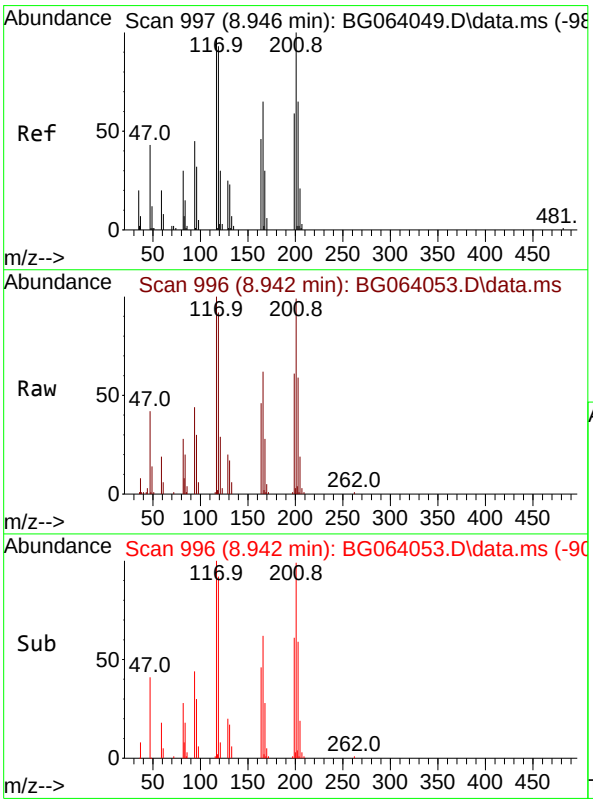
Ion	Ratio	Lower	Upper
107	100		
108	114.3	92.5	138.7
77	52.7	40.5	60.7
79	55.4	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

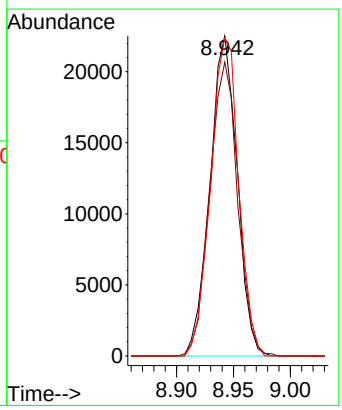
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

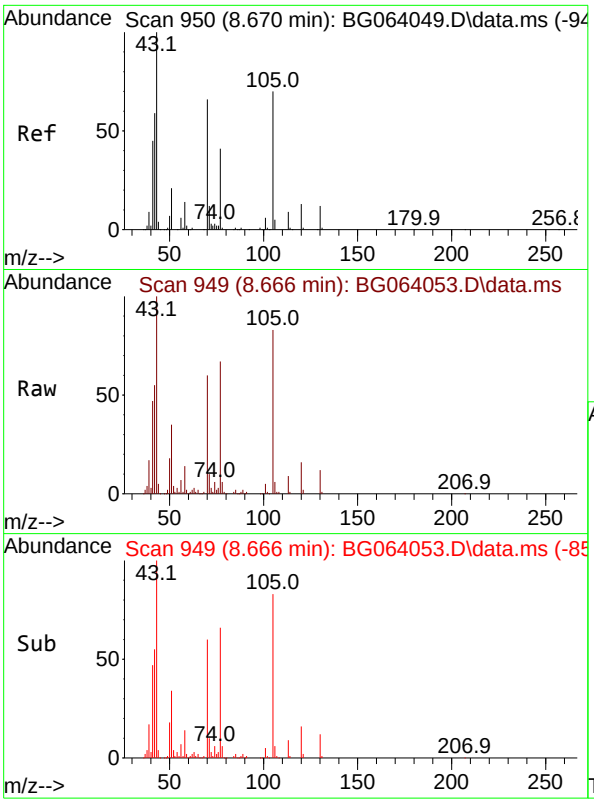


#18
Hexachloroethane
Concen: 39.404 ng
RT: 8.942 min Scan# 996
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:117 Resp: 37454

Ion	Ratio	Lower	Upper
117	100		
119	91.8	76.2	114.2
201	99.3	81.5	122.3

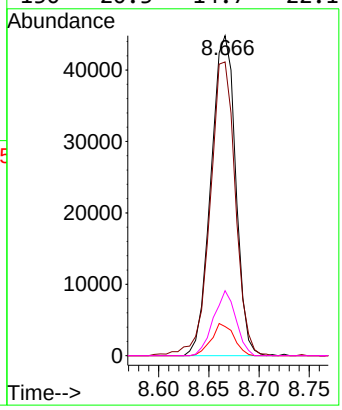




#19
n-Nitroso-di-n-propylamine
Concen: 35.648 ng
RT: 8.666 min Scan# 94
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 70 Resp: 7648

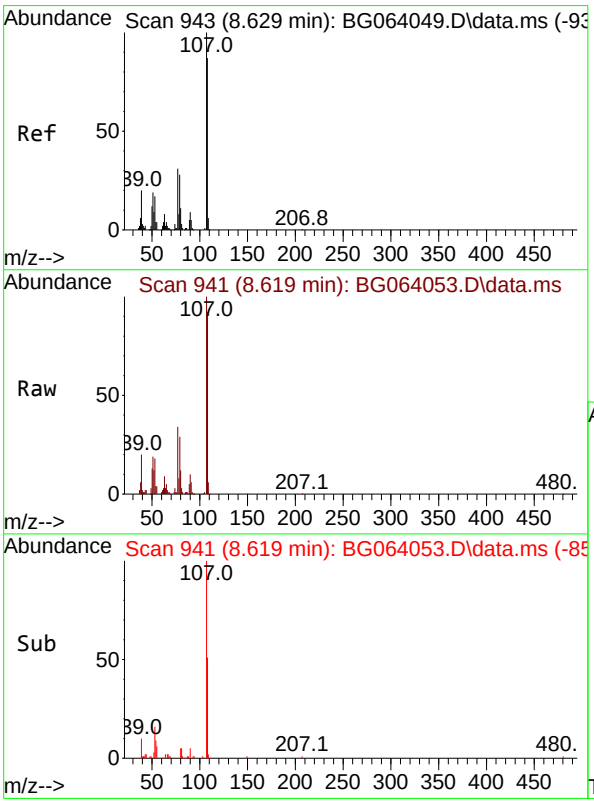
Ion	Ratio	Lower	Upper
70	100		
42	91.8	72.1	108.1
101	9.1	7.2	10.8
130	20.3	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

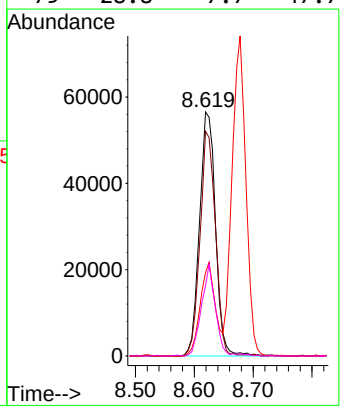
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

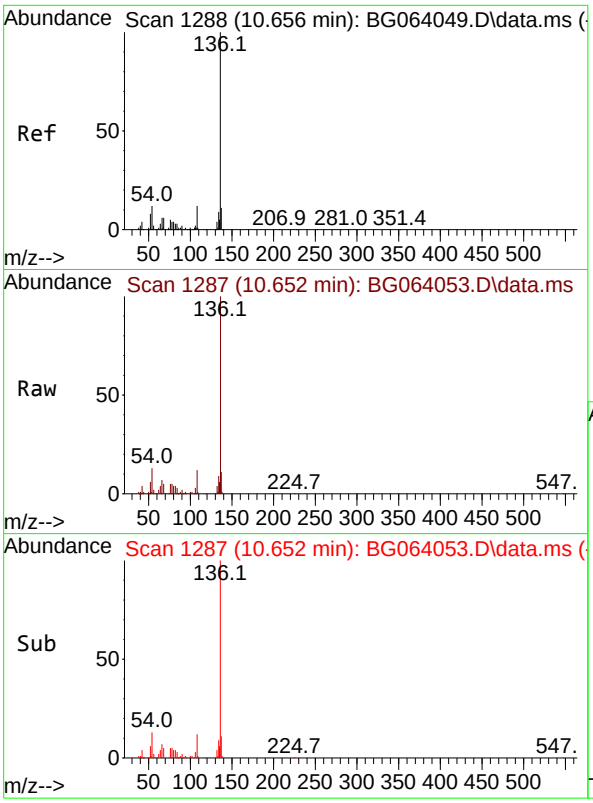


#20
3+4-Methylphenols
Concen: 37.166 ng
RT: 8.619 min Scan# 941
Delta R.T. -0.009 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:107 Resp: 106291

Ion	Ratio	Lower	Upper
107	100		
108	92.1	67.0	107.0
77	34.2	11.2	51.2
79	28.8	7.7	47.7

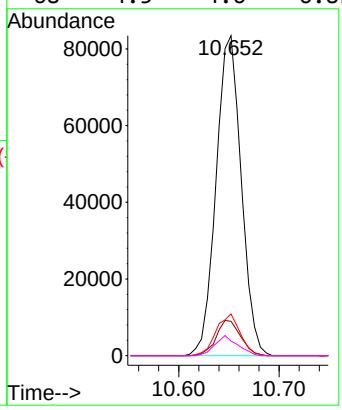




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:136 Resp: 14508

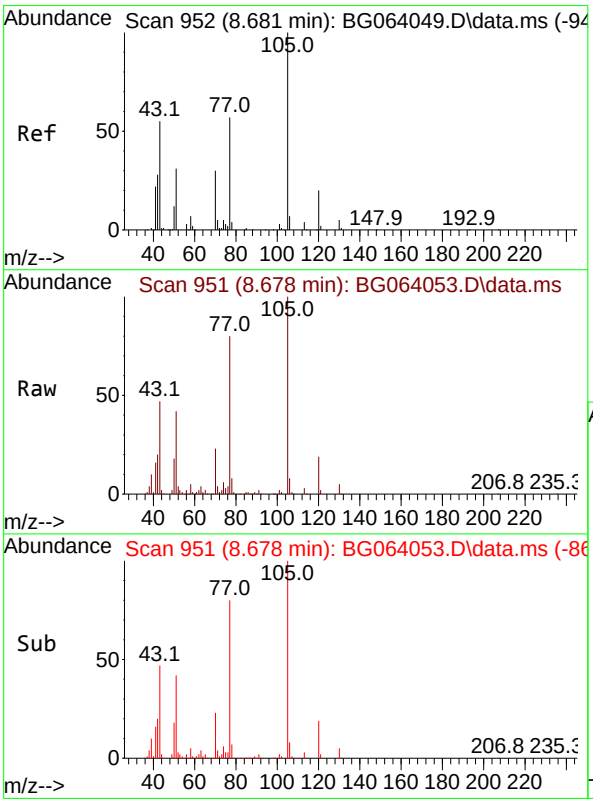
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	13.0	9.9	14.9
68	4.5	4.6	6.8#



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

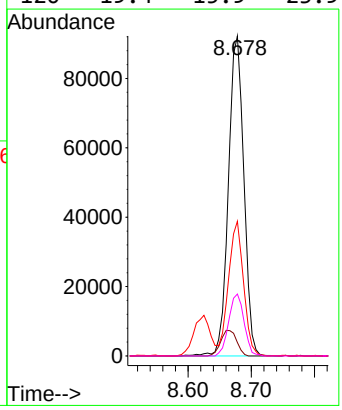
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

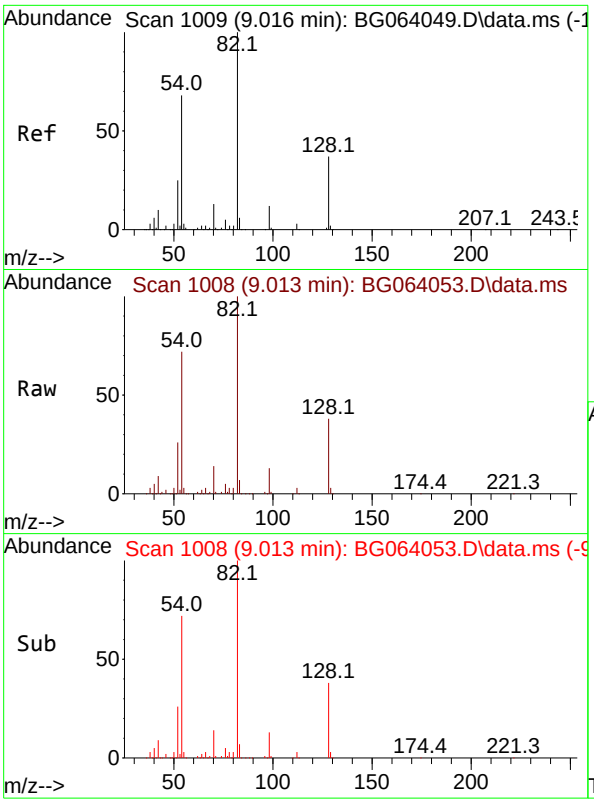


#22
Acetophenone
Concen: 39.285 ng
RT: 8.678 min Scan# 951
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:105 Resp: 156271

Ion	Ratio	Lower	Upper
105	100		
71	4.2	4.2	6.4#
51	42.1	33.3	49.9
120	19.4	15.9	23.9

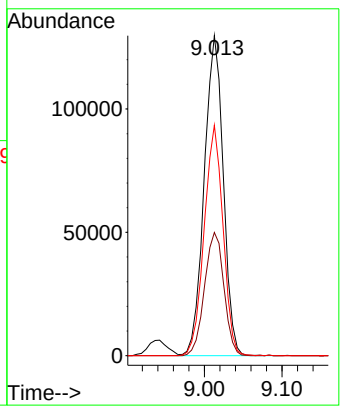




#23
Nitrobenzene-d5
Concen: 84.279 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 82 Resp: 22126

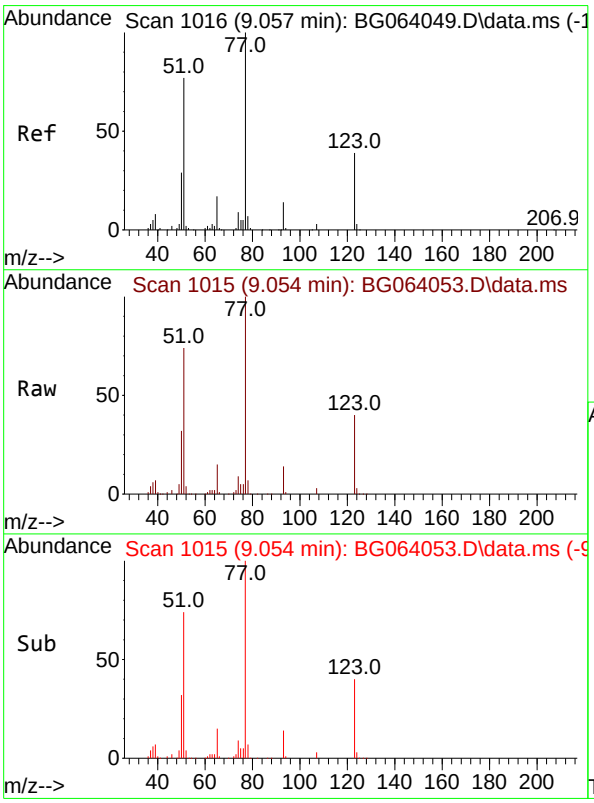
Ion	Ratio	Lower	Upper
82	100		
128	38.5	30.0	45.0
54	72.0	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

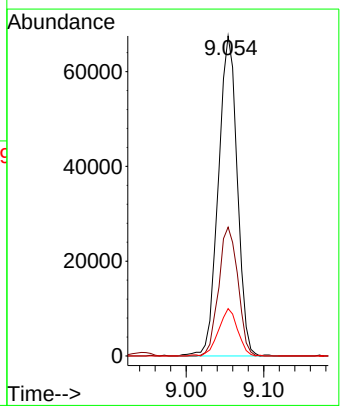
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

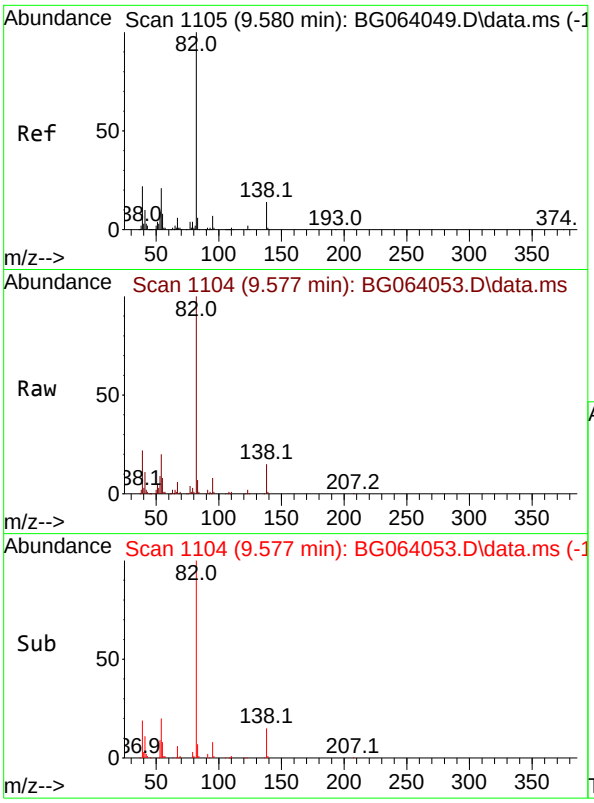


#24
Nitrobenzene
Concen: 42.208 ng
RT: 9.054 min Scan# 1015
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 77 Resp: 114521

Ion	Ratio	Lower	Upper
77	100		
123	40.3	31.4	47.2
65	14.8	13.4	20.0

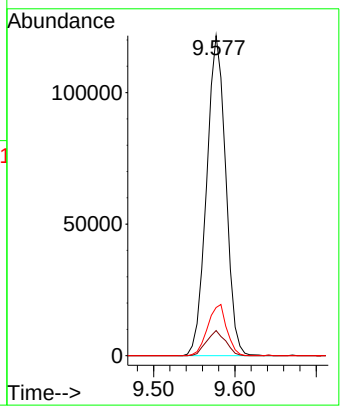




#25
Isophorone
Concen: 37.823 ng
RT: 9.577 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 82 Resp: 19875

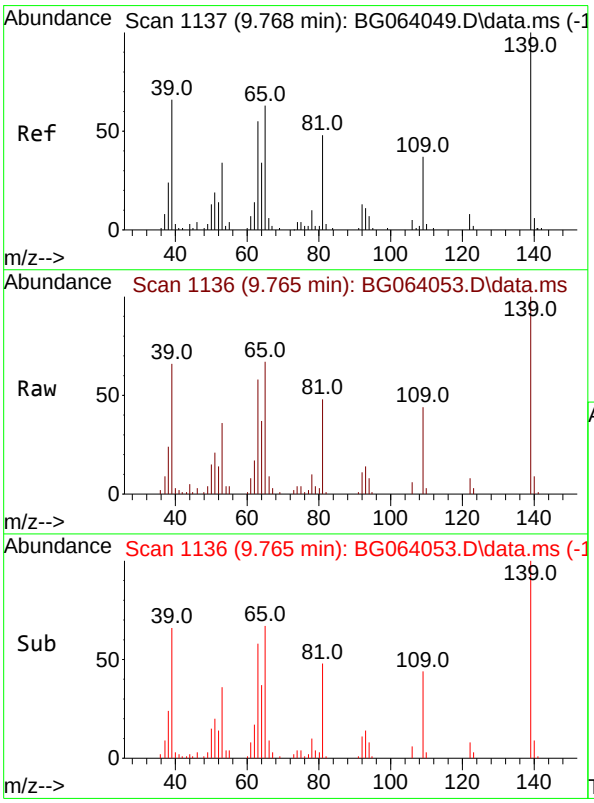
Ion	Ratio	Lower	Upper
82	100		
95	7.9	5.8	8.8
138	15.1	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

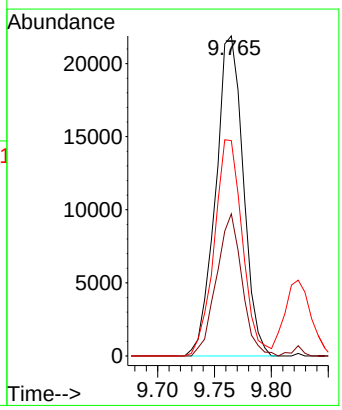
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

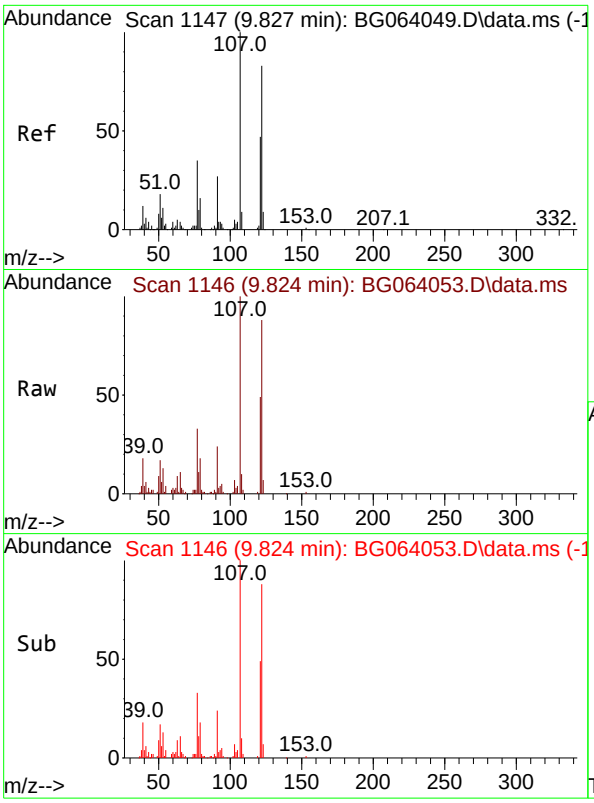


#26
2-Nitrophenol
Concen: 40.946 ng
RT: 9.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:139 Resp: 36978

Ion	Ratio	Lower	Upper
139	100		
109	44.4	29.9	44.9
65	67.3	50.6	76.0

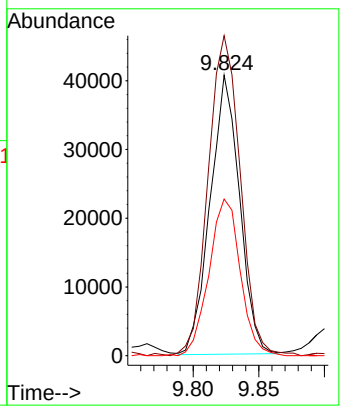




#27
2,4-Dimethylphenol
Concen: 40.139 ng
RT: 9.824 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:122 Resp: 6323

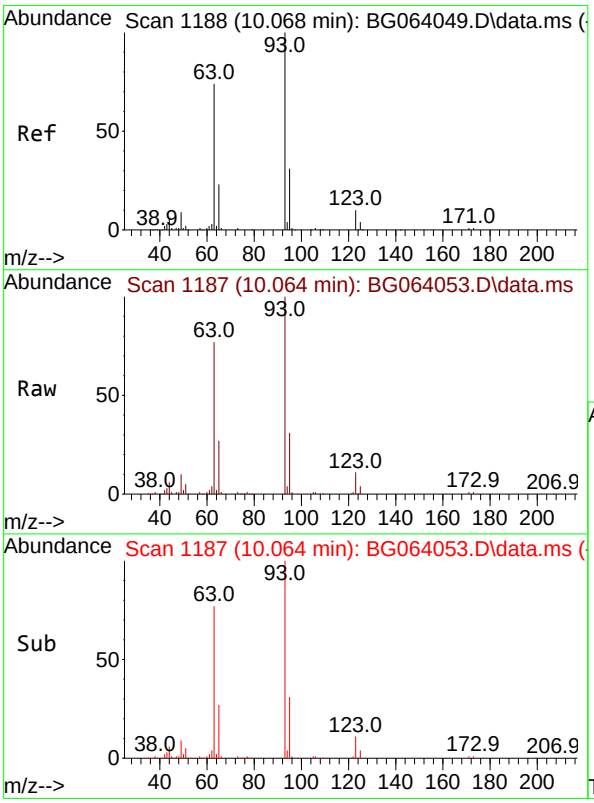
Ion	Ratio	Lower	Upper
122	100		
107	114.1	95.4	143.0
121	55.8	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

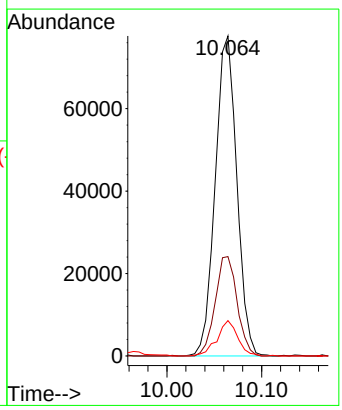
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

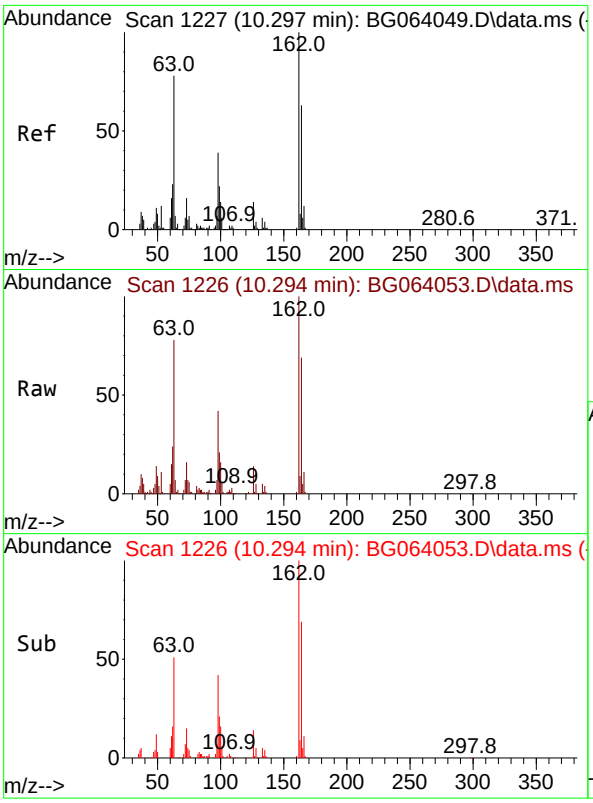


#28
bis(2-Chloroethoxy)methane
Concen: 38.620 ng
RT: 10.064 min Scan# 1187
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 93 Resp: 123038

Ion	Ratio	Lower	Upper
93	100		
95	31.1	25.0	37.4
123	11.1	7.6	11.4





#29
2,4-Dichlorophenol
Concen: 41.154 ng
RT: 10.294 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

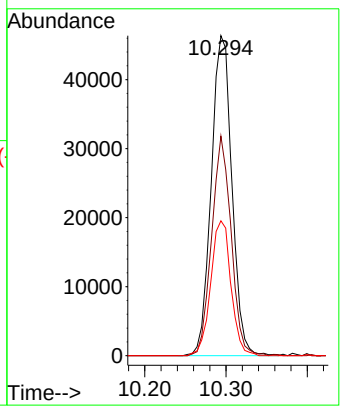
Tgt Ion:162 Resp: 8186

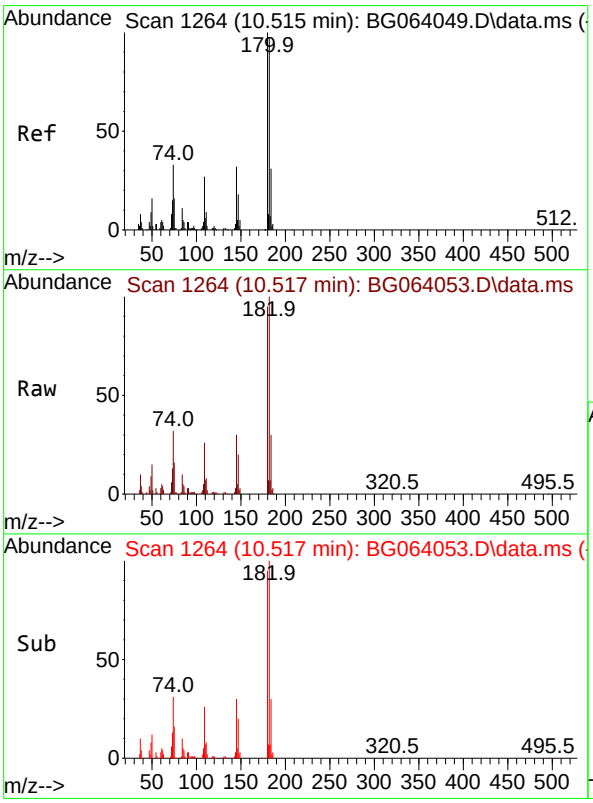
Ion	Ratio	Lower	Upper
162	100		
164	68.6	42.8	82.8
98	42.1	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

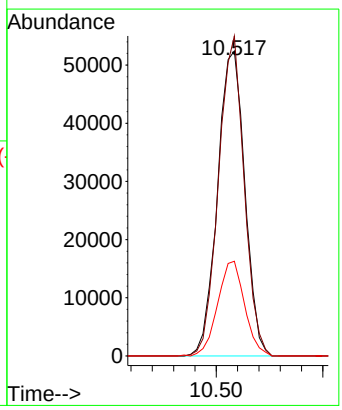


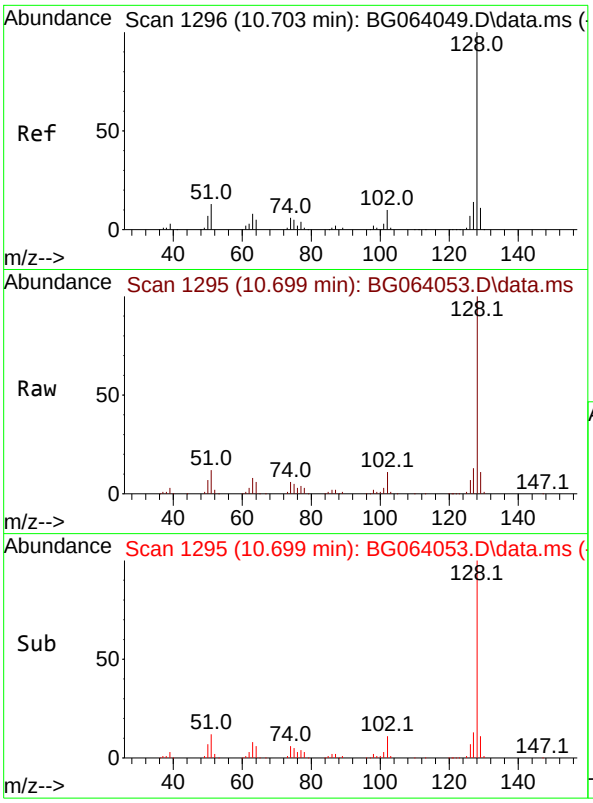


#30
1,2,4-Trichlorobenzene
Concen: 38.802 ng
RT: 10.517 min Scan# 1264
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:180 Resp: 93175

Ion	Ratio	Lower	Upper
180	100		
182	104.9	77.3	115.9
145	31.1	25.2	37.8

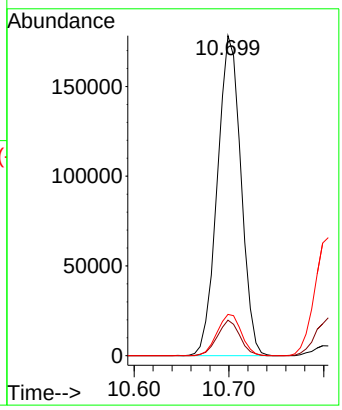




#31
Naphthalene
Concen: 39.402 ng
RT: 10.699 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:128 Resp: 30825

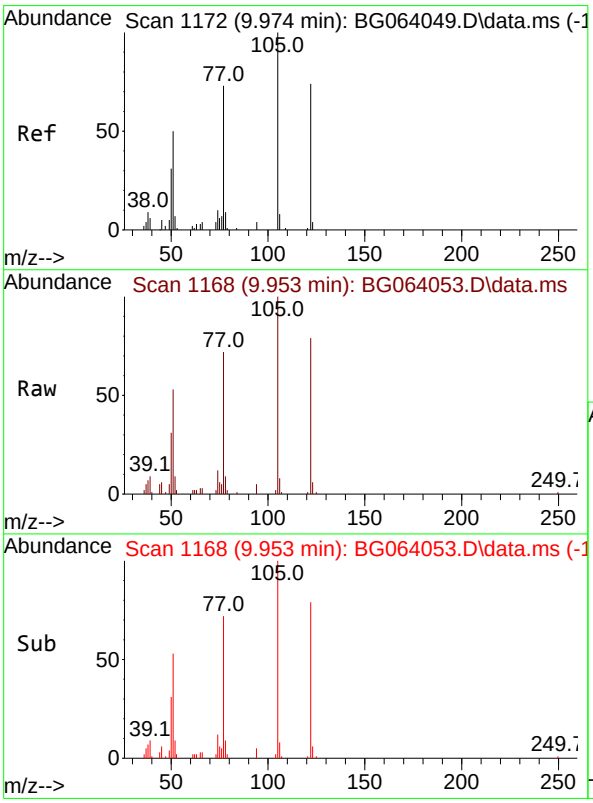
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.4	12.6
127	12.9	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

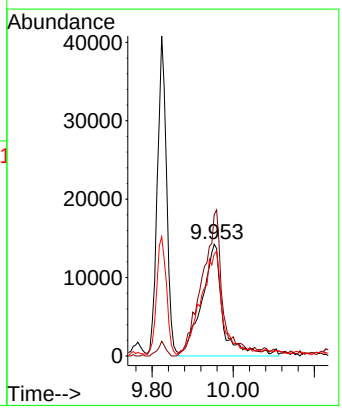
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

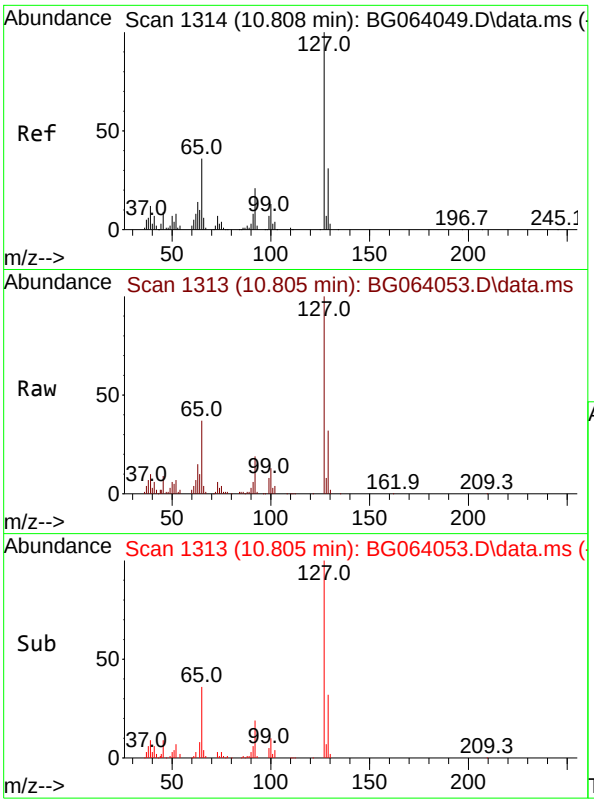


#32
Benzoic acid
Concen: 37.906 ng m
RT: 9.953 min Scan# 1168
Delta R.T. -0.021 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:122 Resp: 51607

Ion	Ratio	Lower	Upper
122	100		
105	126.5	115.0	155.0
77	91.3	80.9	120.9

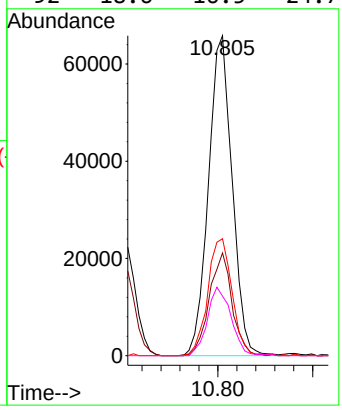




#33
4-Chloroaniline
Concen: 39.949 ng
RT: 10.805 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:127 Resp: 11422

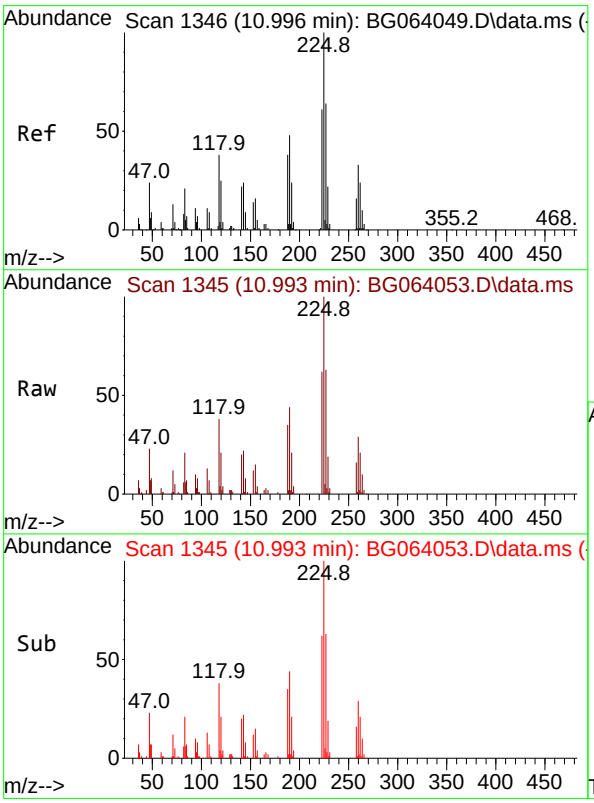
Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.0	37.4
65	36.5	28.5	42.7
92	18.6	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

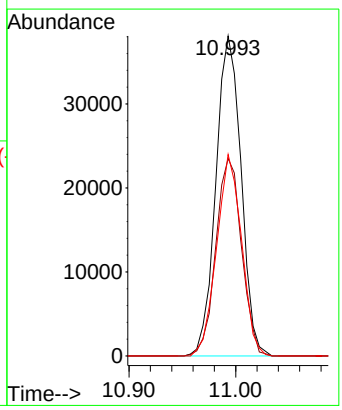
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

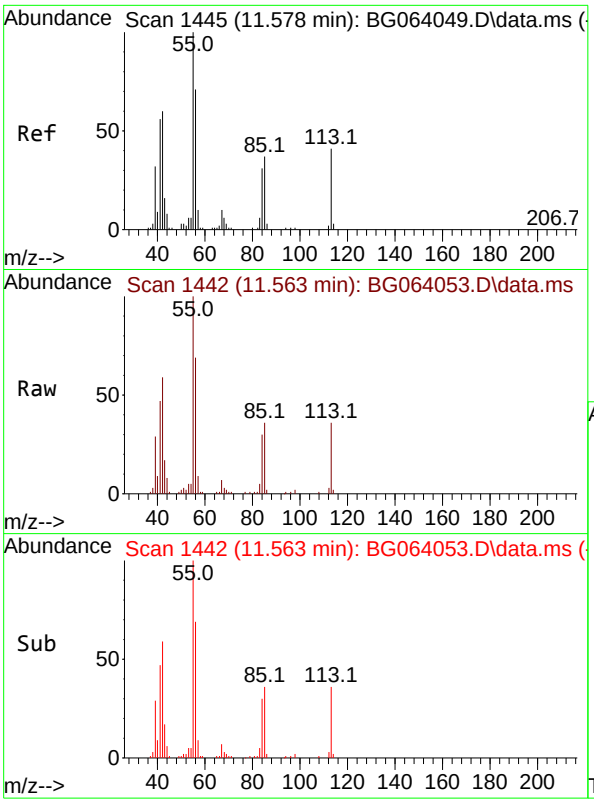


#34
Hexachlorobutadiene
Concen: 39.720 ng
RT: 10.993 min Scan# 1345
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:225 Resp: 62517

Ion	Ratio	Lower	Upper
225	100		
223	61.7	48.5	72.7
227	63.0	51.0	76.6

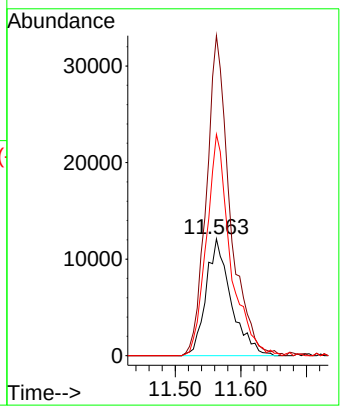




#35
Caprolactam
Concen: 42.084 ng
RT: 11.563 min Scan# 14
Delta R.T. -0.015 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:113 Resp: 3208

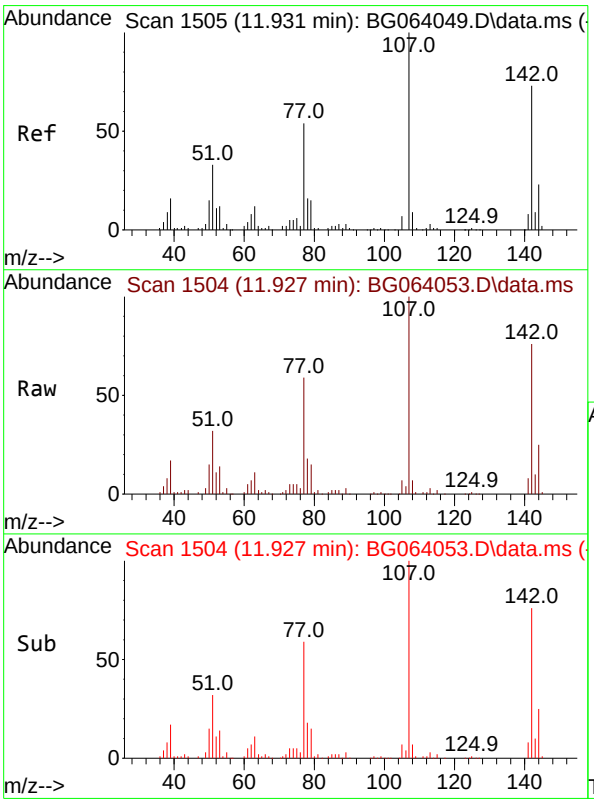
Ion	Ratio	Lower	Upper
113	100		
55	274.0	225.2	265.2
56	189.5	153.4	193.4



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

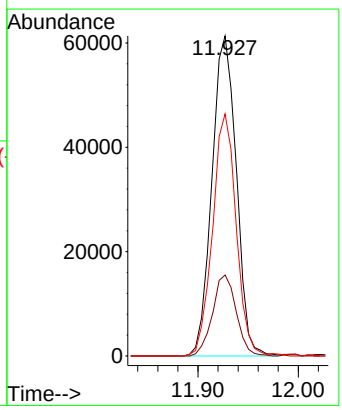
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

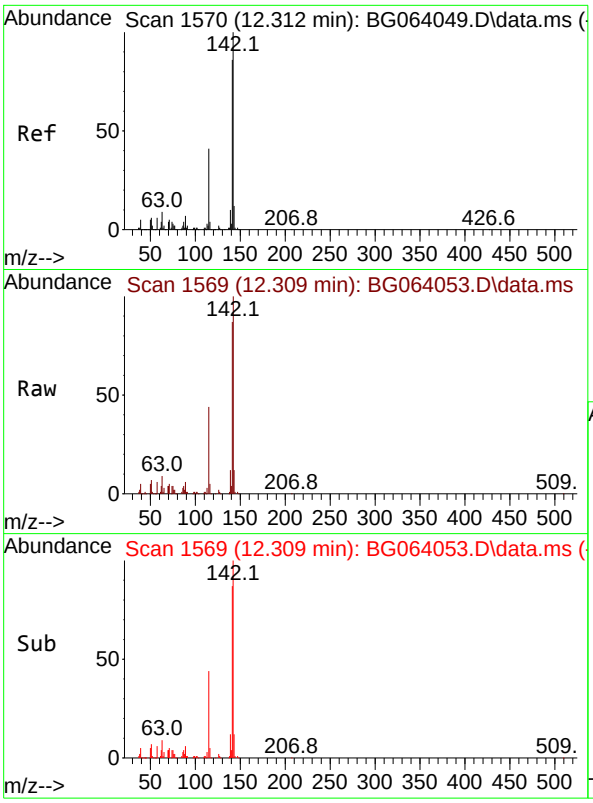


#36
4-Chloro-3-methylphenol
Concen: 39.649 ng
RT: 11.927 min Scan# 1504
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:107 Resp: 103382

Ion	Ratio	Lower	Upper
107	100		
144	25.3	18.6	28.0
142	75.7	58.0	87.0

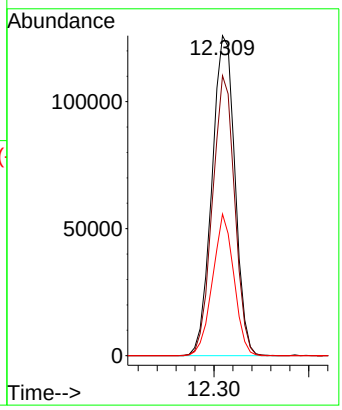




#37
2-Methylnaphthalene
Concen: 38.463 ng
RT: 12.309 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:142 Resp: 21243

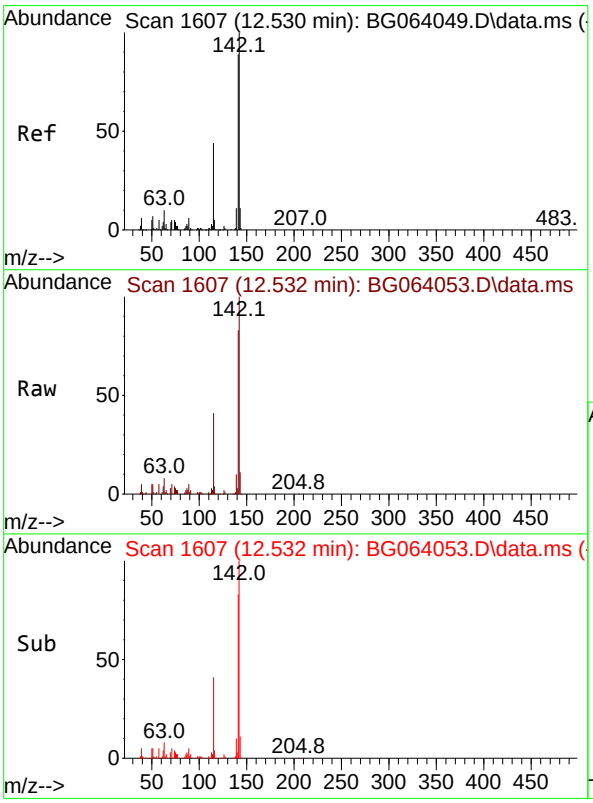
Ion	Ratio	Lower	Upper
142	100		
141	87.5	68.6	103.0
115	44.2	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

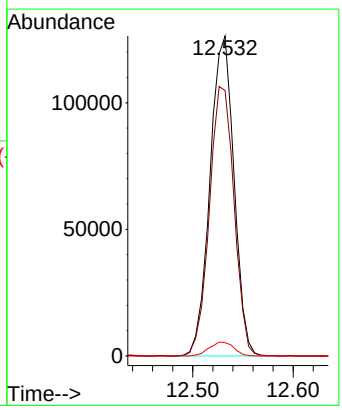
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

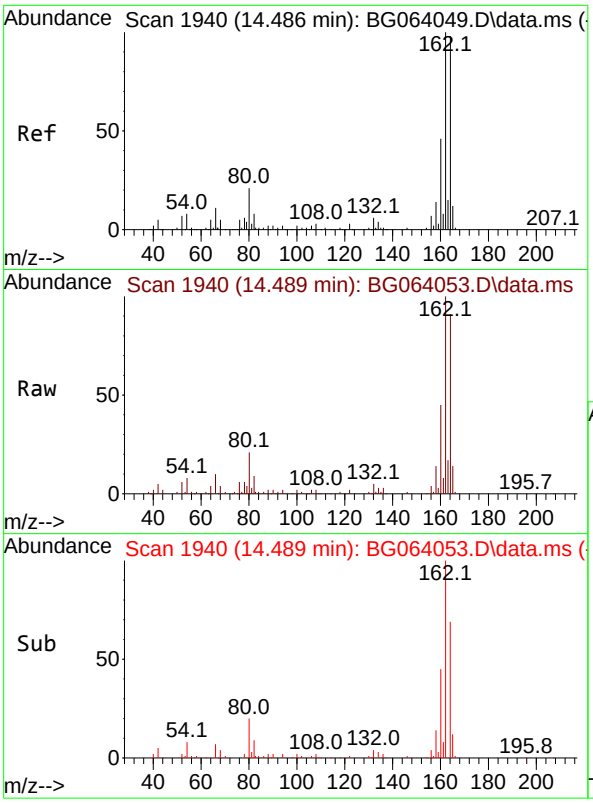


#38
1-Methylnaphthalene
Concen: 38.724 ng
RT: 12.532 min Scan# 1607
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:142 Resp: 209530

Ion	Ratio	Lower	Upper
142	100		
141	83.0	71.2	106.8
116	4.1	3.6	5.4

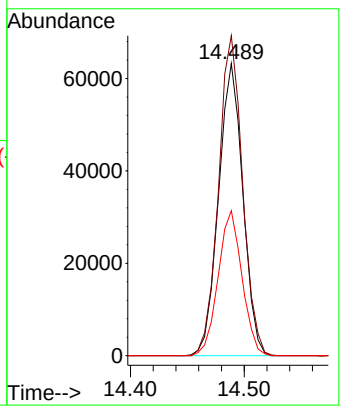




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.489 min Scan# 1
Delta R.T. 0.003 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:164 Resp: 9372

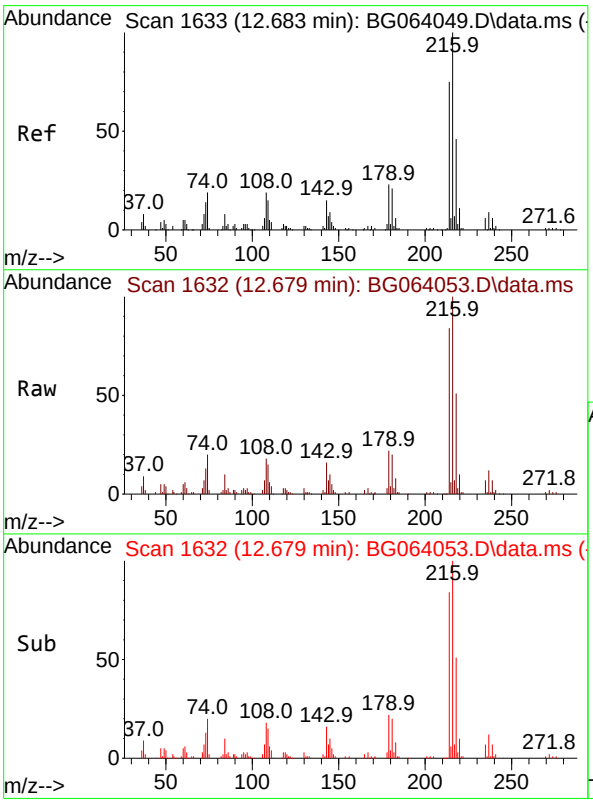
Ion	Ratio	Lower	Upper
164	100		
162	109.5	81.4	122.0
160	49.6	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

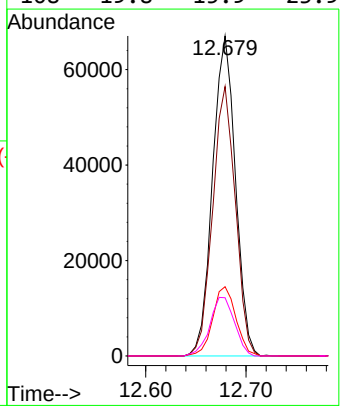
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

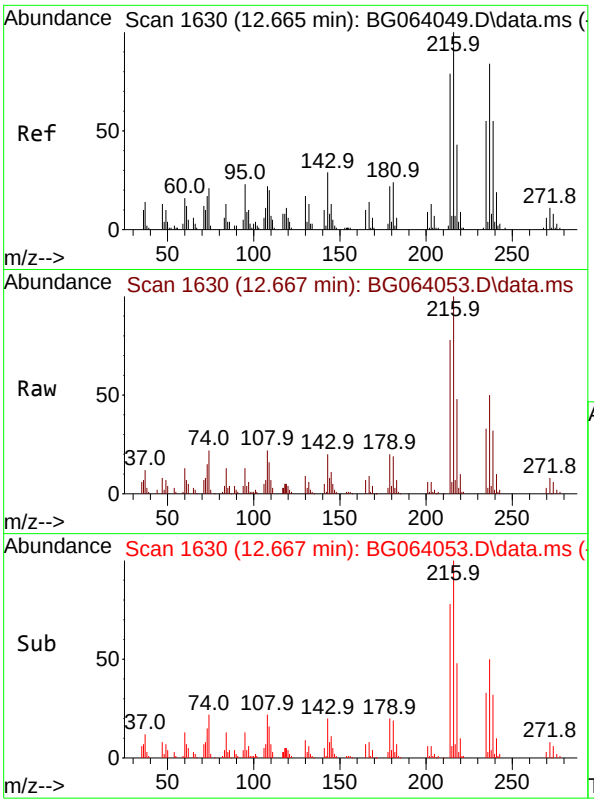


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.630 ng
RT: 12.679 min Scan# 1632
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:216 Resp: 106041

Ion	Ratio	Lower	Upper
216	100		
214	83.5	61.7	92.5
179	22.0	17.9	26.9
108	19.8	15.9	23.9

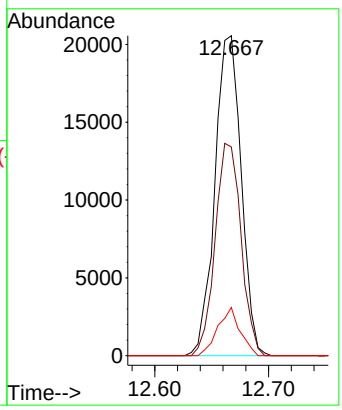




#41
Hexachlorocyclopentadiene
Concen: 43.873 ng
RT: 12.667 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:237 Resp: 3304

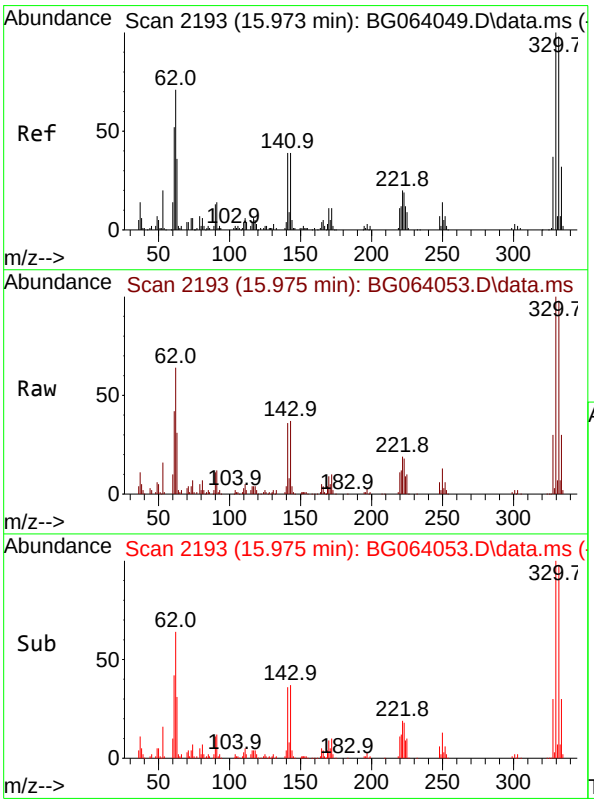
Ion	Ratio	Lower	Upper
237	100		
235	65.3	46.0	86.0
272	15.0	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

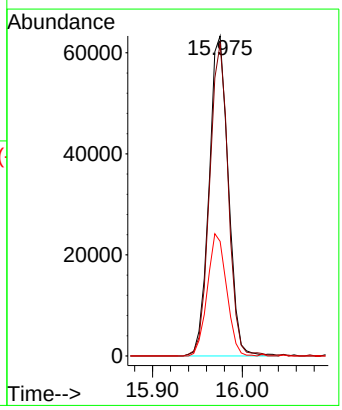
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

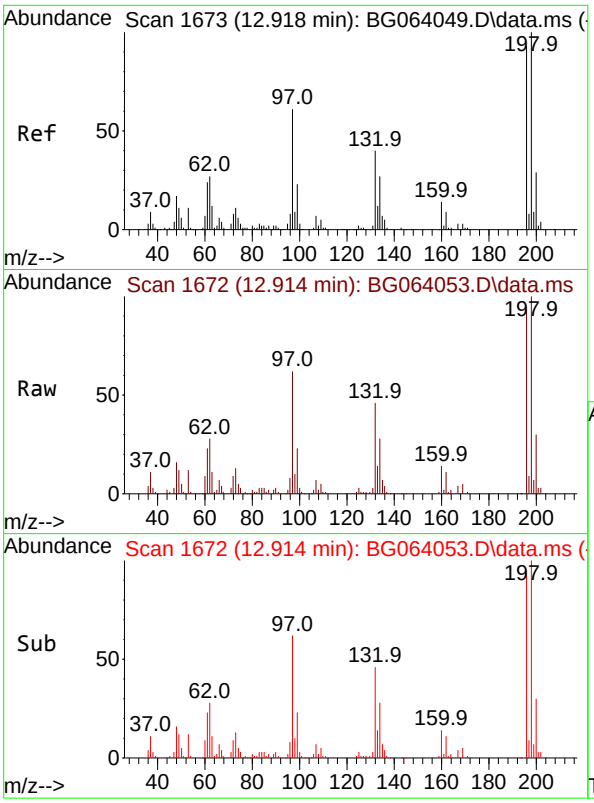


#42
2,4,6-Tribromophenol
Concen: 90.311 ng
RT: 15.975 min Scan# 2193
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:330 Resp: 94089

Ion	Ratio	Lower	Upper
330	100		
332	94.7	76.7	115.1
141	38.2	29.7	44.5

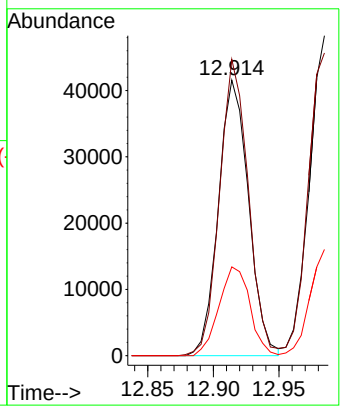




#43
2,4,6-Trichlorophenol
Concen: 42.165 ng
RT: 12.914 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:196 Resp: 6649

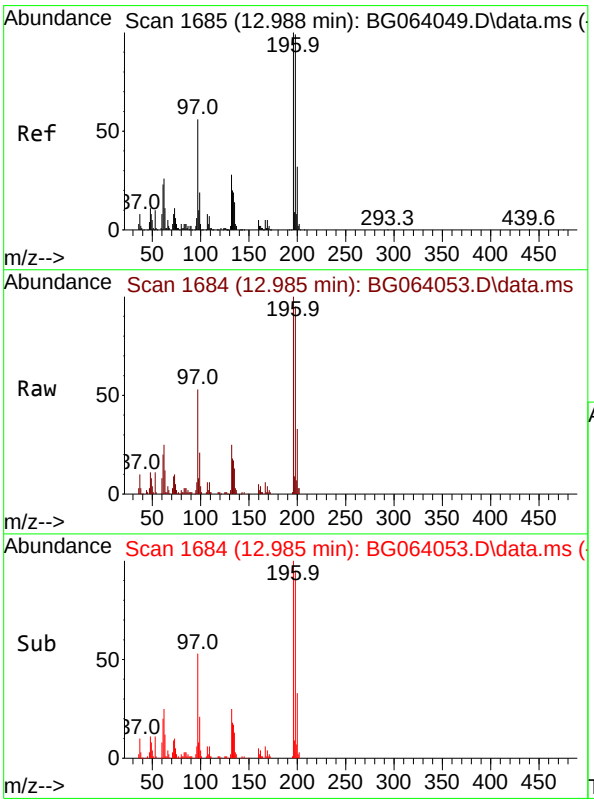
Ion	Ratio	Lower	Upper
196	100		
198	107.5	85.6	128.4
200	32.2	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

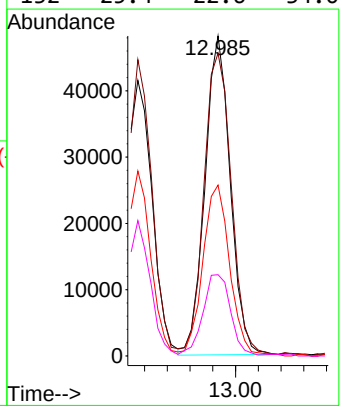
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

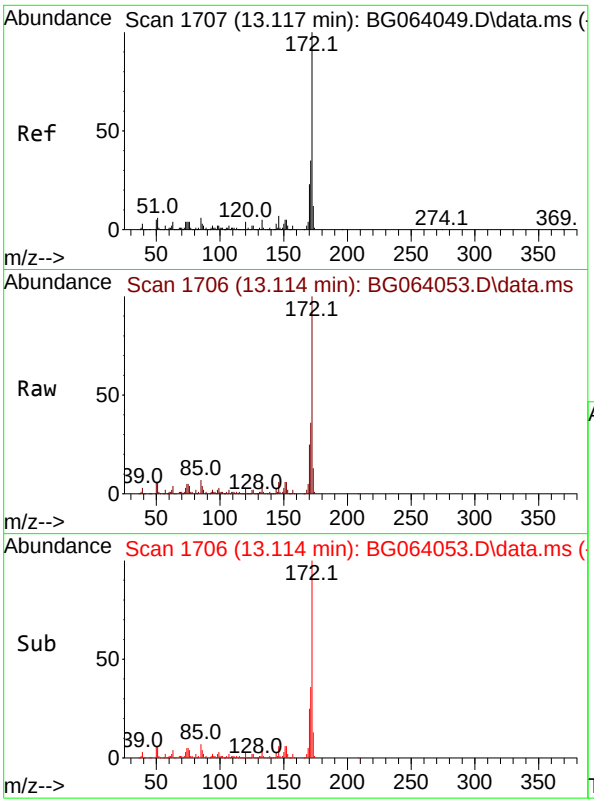


#44
2,4,5-Trichlorophenol
Concen: 42.561 ng
RT: 12.985 min Scan# 1684
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:196 Resp: 74580

Ion	Ratio	Lower	Upper
196	100		
198	94.6	79.5	119.3
97	53.4	45.2	67.8
132	25.4	22.6	34.0

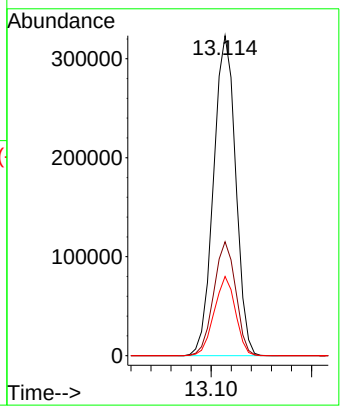




#45
2-Fluorobiphenyl
Concen: 80.186 ng
RT: 13.114 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:172 Resp: 49512

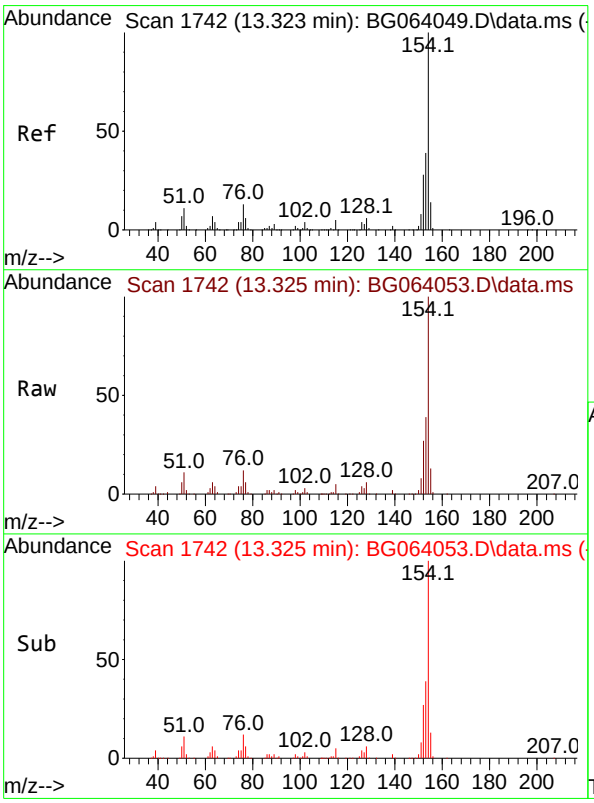
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.0	42.0
170	24.7	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

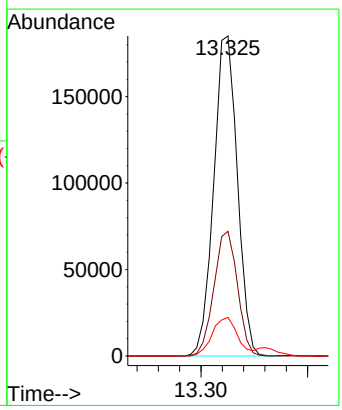
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

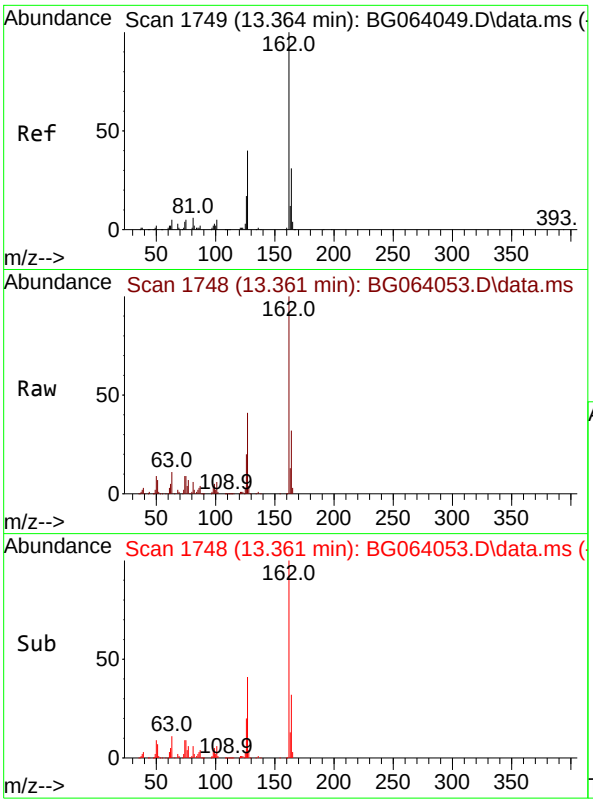


#46
1,1'-Biphenyl
Concen: 40.196 ng
RT: 13.325 min Scan# 1742
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:154 Resp: 284632

Ion	Ratio	Lower	Upper
154	100		
153	38.9	19.5	59.5
76	12.0	0.0	33.5

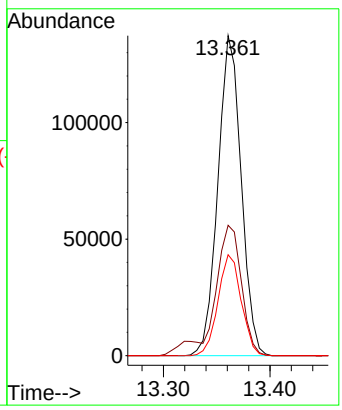




#47
2-Chloronaphthalene
Concen: 40.309 ng
RT: 13.361 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:162 Resp: 20817

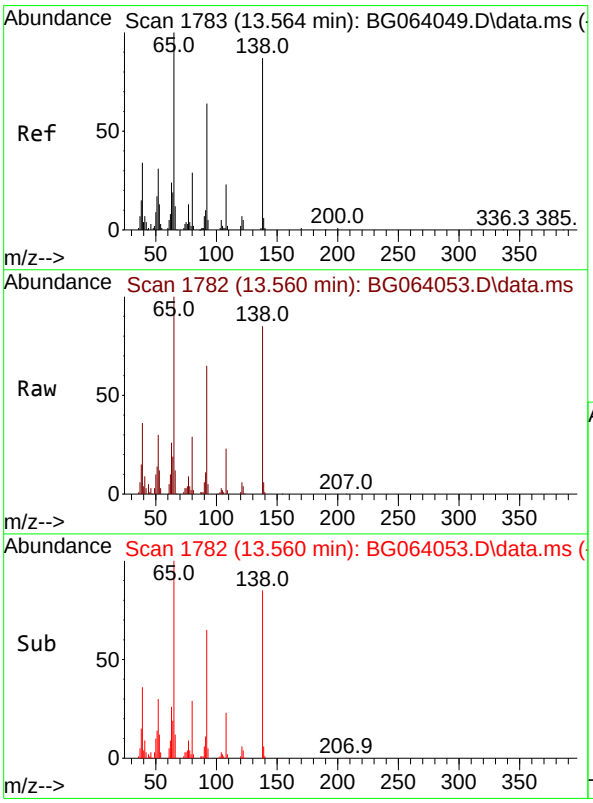
Ion	Ratio	Lower	Upper
162	100		
127	40.8	35.0	52.4
164	31.6	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

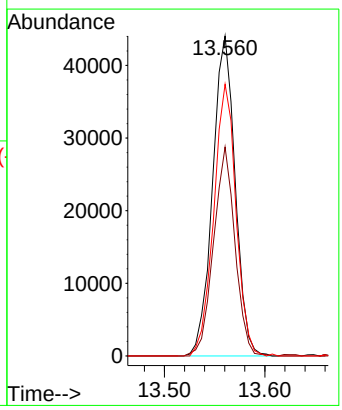
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

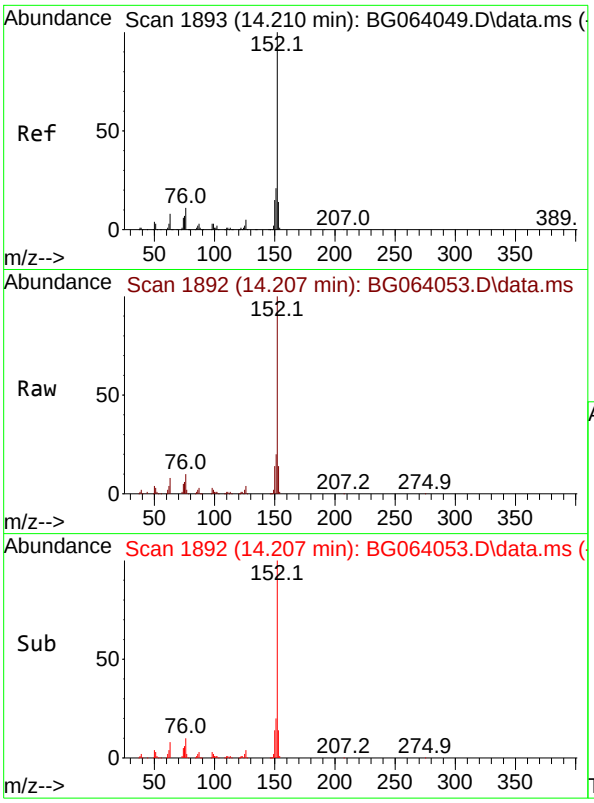


#48
2-Nitroaniline
Concen: 41.405 ng
RT: 13.560 min Scan# 1782
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 65 Resp: 68823

Ion	Ratio	Lower	Upper
65	100		
92	65.3	51.2	76.8
138	84.9	69.4	104.2

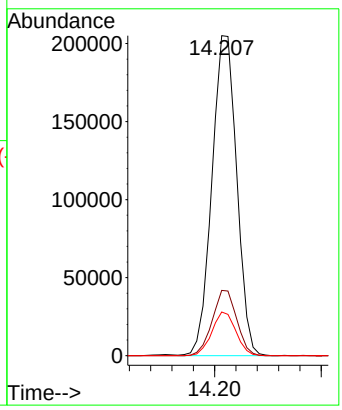




#49
Acenaphthylene
Concen: 40.537 ng
RT: 14.207 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:152 Resp: 33113

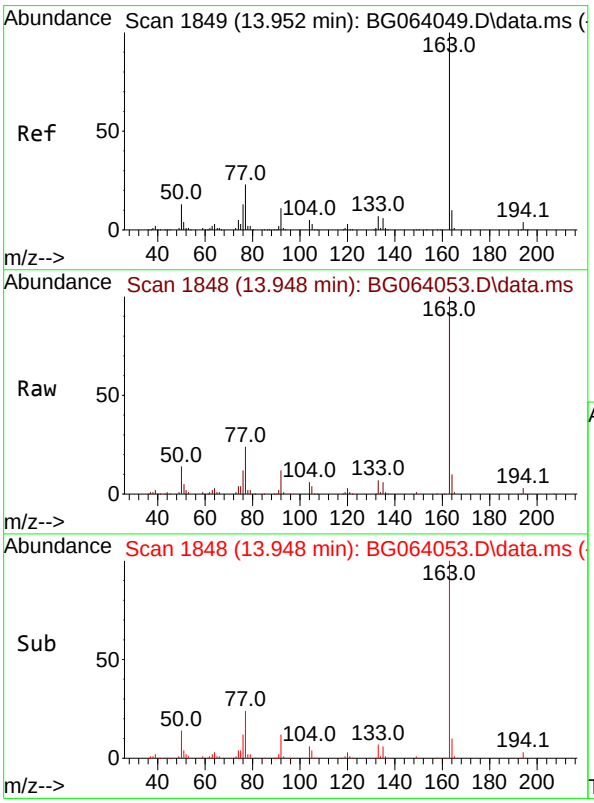
Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.4	24.6
153	13.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

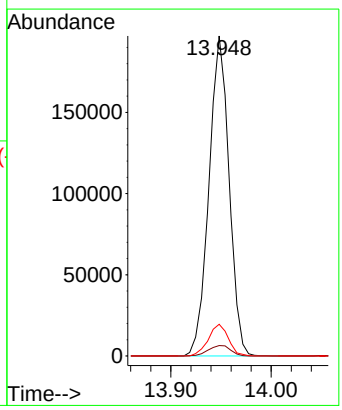
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

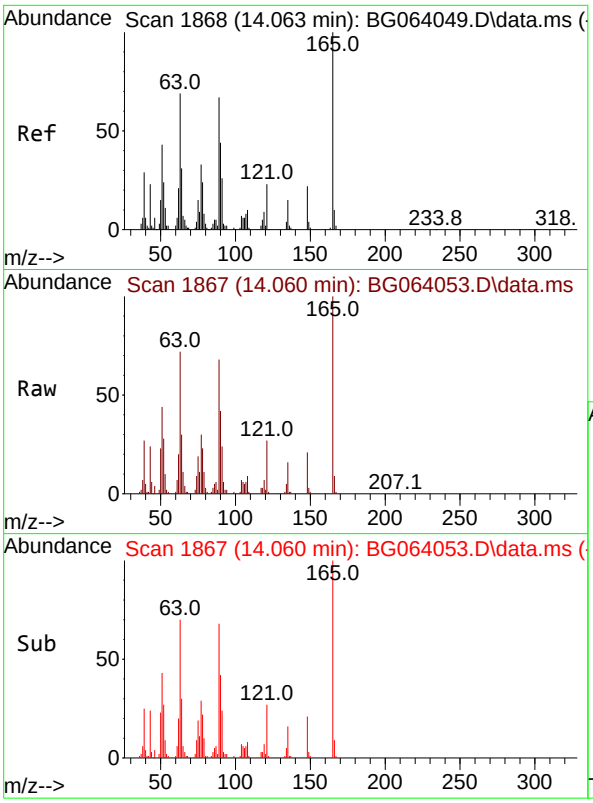


#50
Dimethylphthalate
Concen: 39.712 ng
RT: 13.948 min Scan# 1848
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:163 Resp: 274751

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	9.9	8.2	12.2

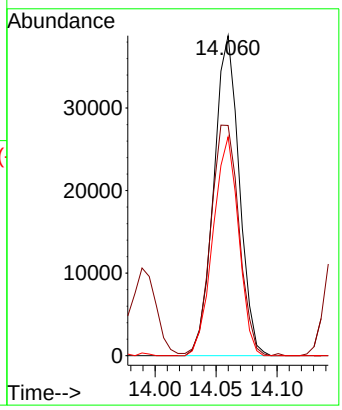




#51
2,6-Dinitrotoluene
Concen: 40.625 ng
RT: 14.060 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:165 Resp: 5624

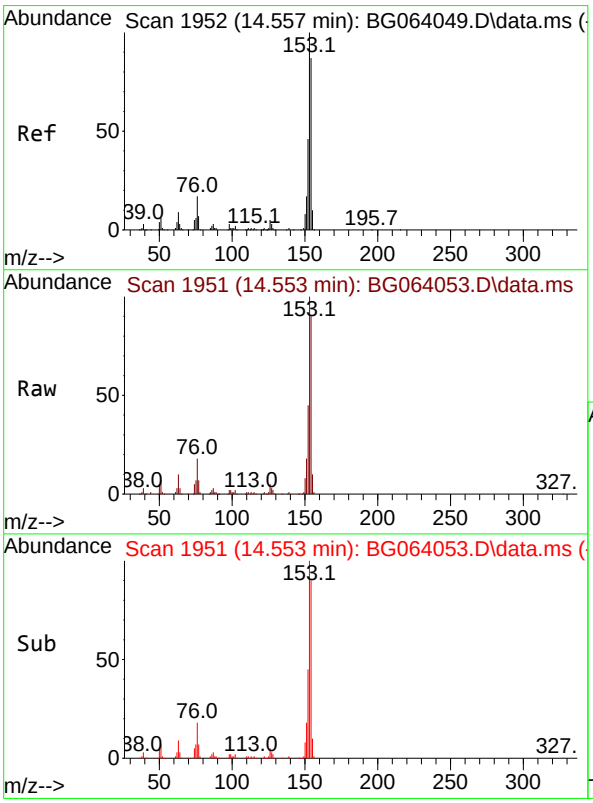
Ion	Ratio	Lower	Upper
165	100		
63	72.0	56.7	85.1
89	68.4	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

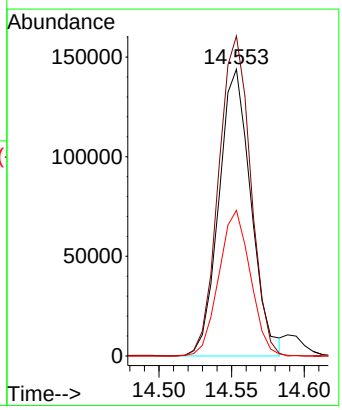
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

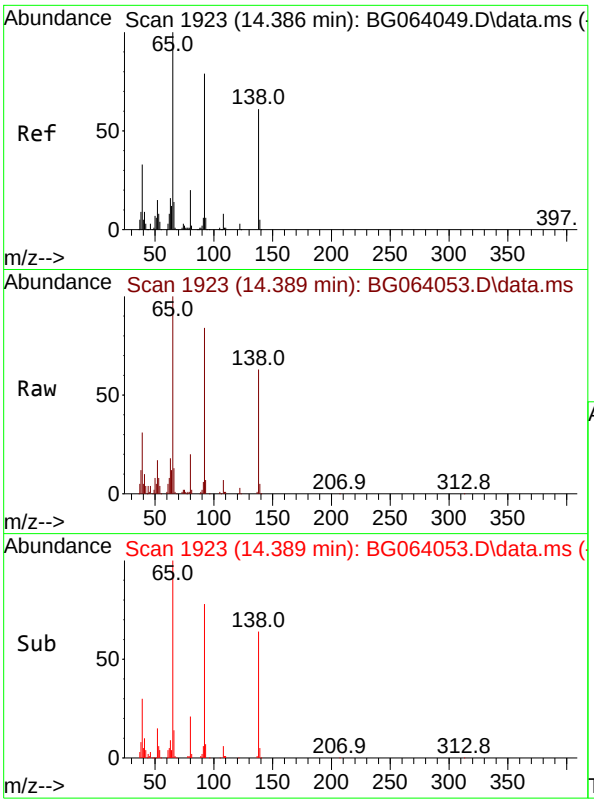


#52
Acenaphthene
Concen: 40.428 ng m
RT: 14.553 min Scan# 1951
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:154 Resp: 221628

Ion	Ratio	Lower	Upper
154	100		
153	111.6	91.6	137.4
152	50.8	42.5	63.7

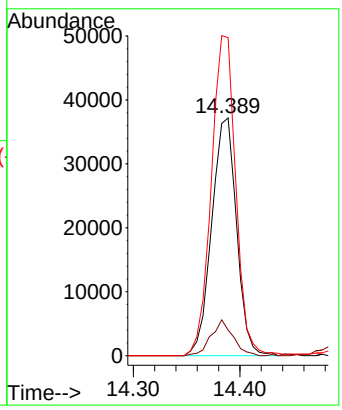




#53
3-Nitroaniline
Concen: 45.042 ng
RT: 14.389 min Scan# 1
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:138 Resp: 6022

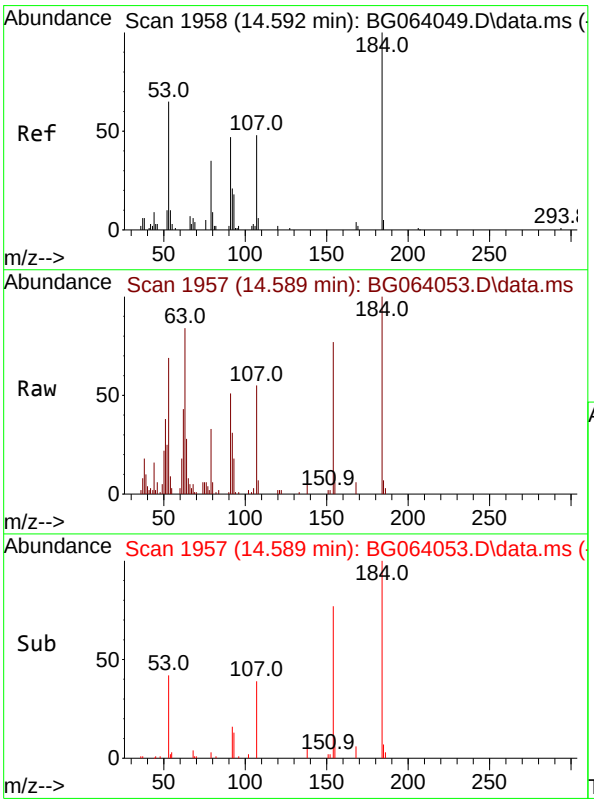
Ion	Ratio	Lower	Upper
138	100		
108	10.8	10.1	15.1
92	133.7	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

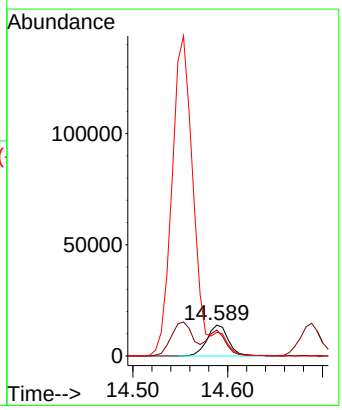
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

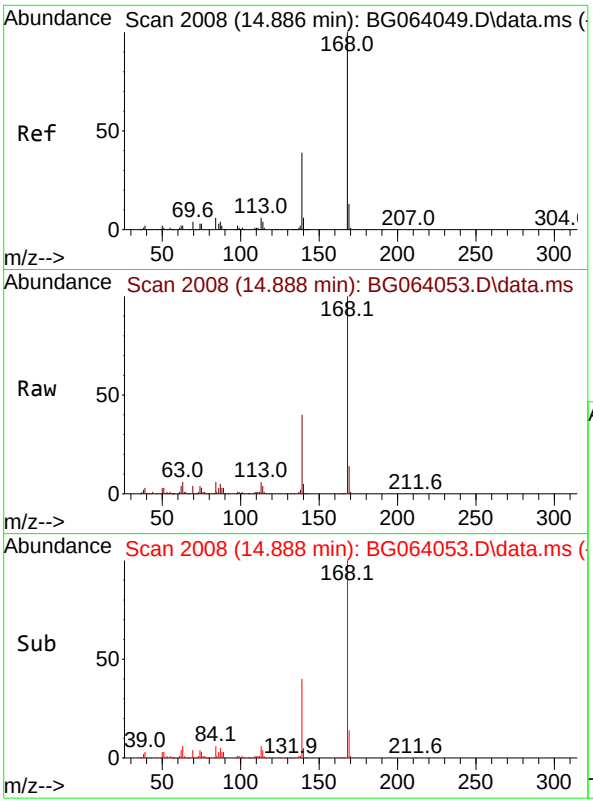


#54
2,4-Dinitrophenol
Concen: 41.197 ng
RT: 14.589 min Scan# 1957
Delta R.T. -0.003 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:184 Resp: 21627

Ion	Ratio	Lower	Upper
184	100		
63	84.0	57.5	86.3
154	76.8	52.3	78.5

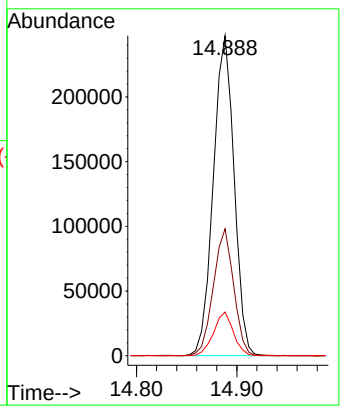




#55
Dibenzofuran
Concen: 40.014 ng
RT: 14.888 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:168 Resp: 35536

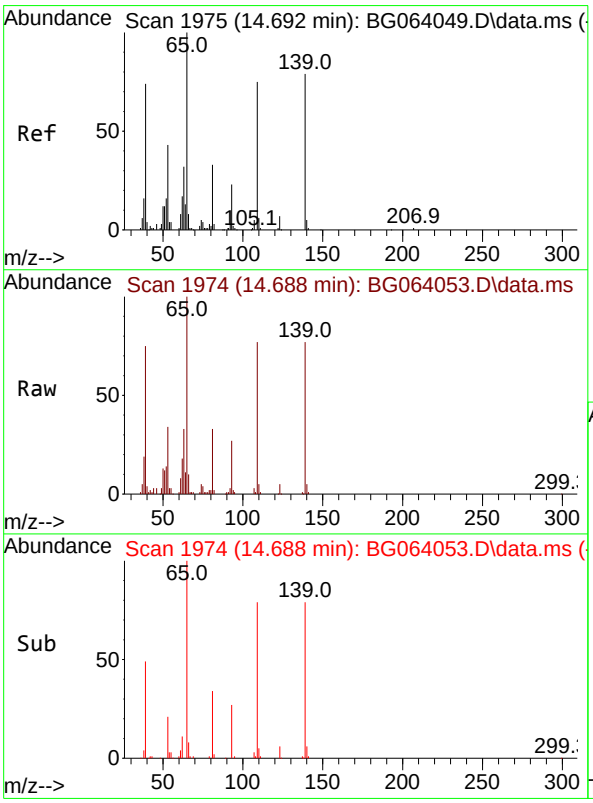
Ion	Ratio	Lower	Upper
168	100		
139	39.6	31.1	46.7
169	13.7	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

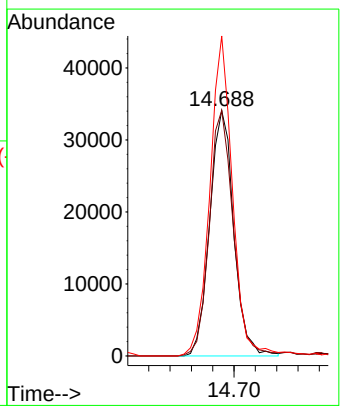
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

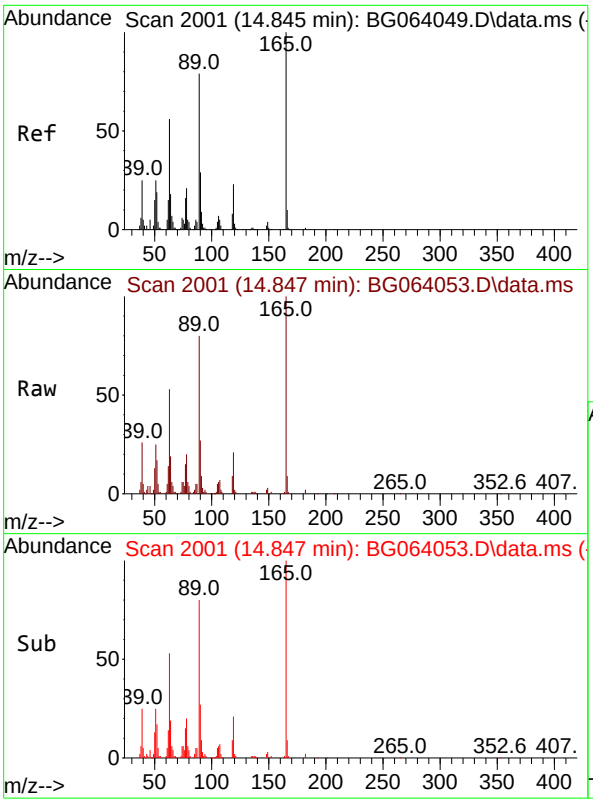


#56
4-Nitrophenol
Concen: 47.537 ng
RT: 14.688 min Scan# 1974
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:139 Resp: 53310

Ion	Ratio	Lower	Upper
139	100		
109	100.1	74.9	114.9
65	130.4	106.8	146.8

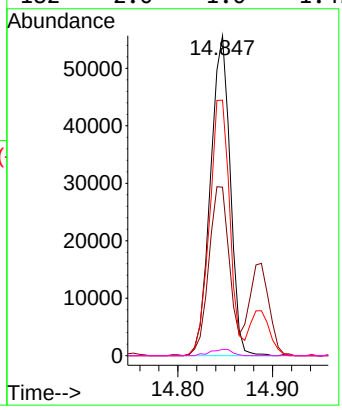




#57
2,4-Dinitrotoluene
Concen: 41.944 ng
RT: 14.847 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:165 Resp: 8026

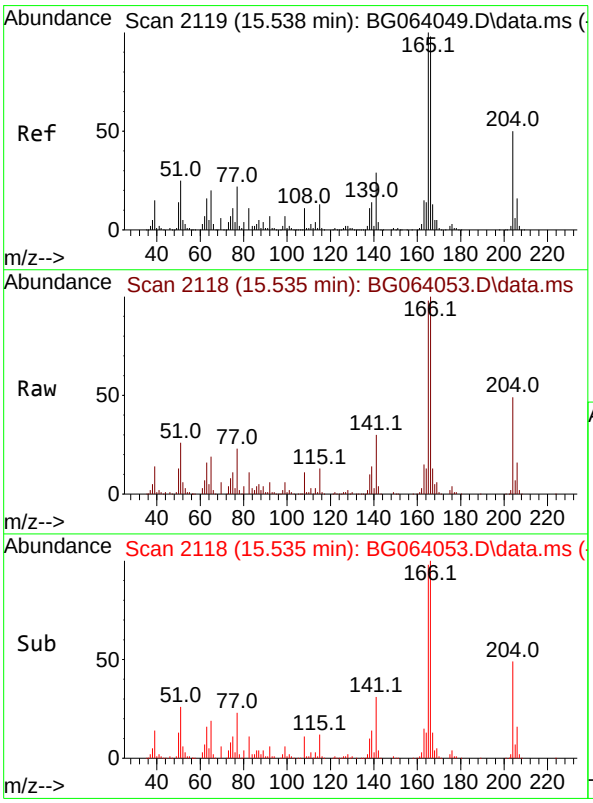
Ion	Ratio	Lower	Upper
165	100		
63	52.7	45.0	67.6
89	79.8	63.1	94.7
182	2.0	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

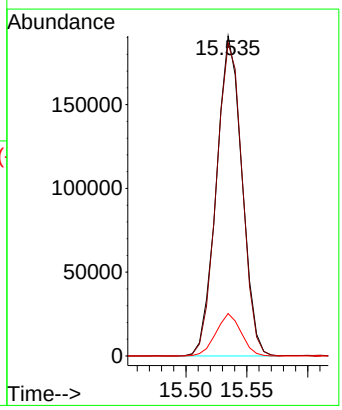
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

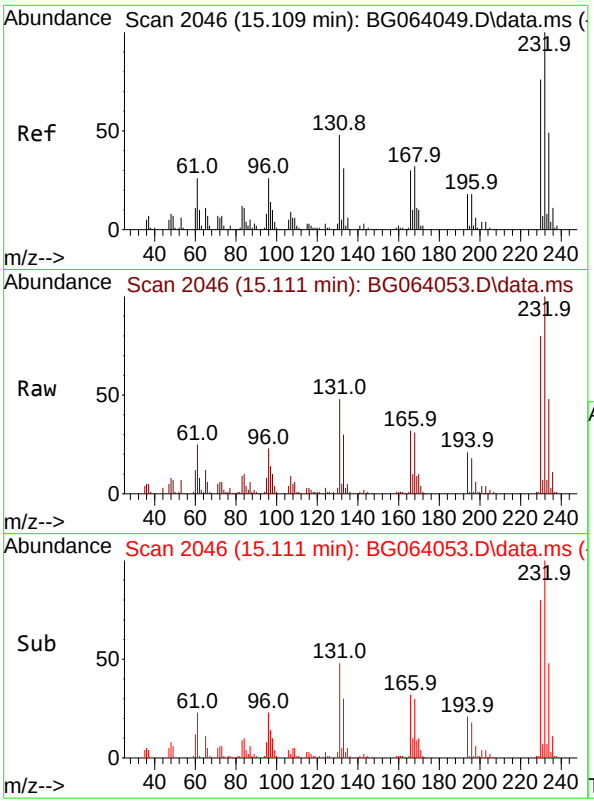


#58
Fluorene
Concen: 40.403 ng
RT: 15.535 min Scan# 2118
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:166 Resp: 279465

Ion	Ratio	Lower	Upper
166	100		
165	97.8	81.8	122.8
167	13.3	10.8	16.2

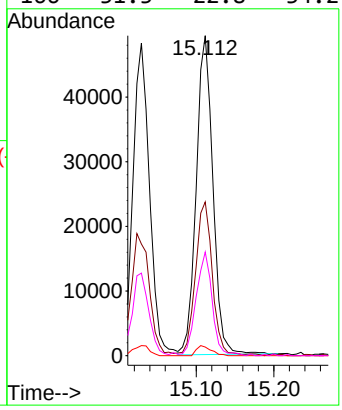




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.068 ng
RT: 15.111 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:232 Resp: 7357

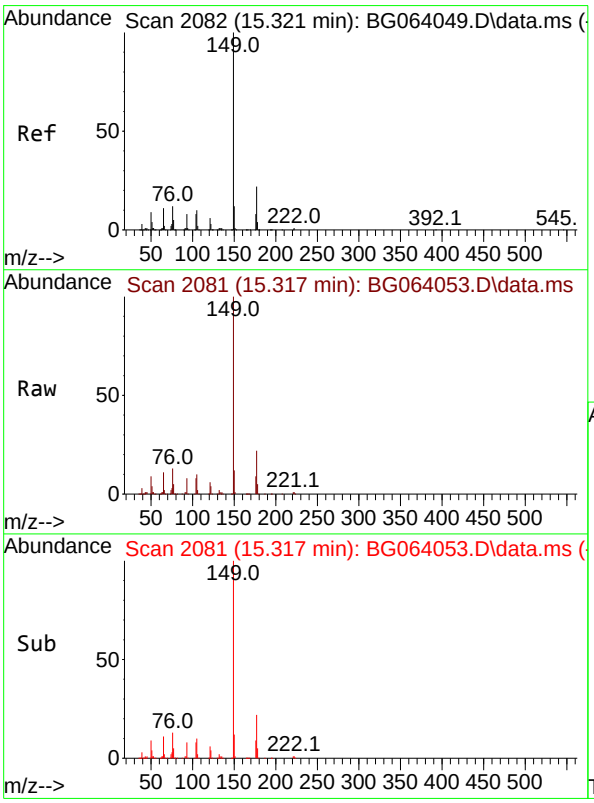
Ion	Ratio	Lower	Upper
232	100		
131	47.7	36.3	54.5
130	2.8	1.9	2.9
166	31.3	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

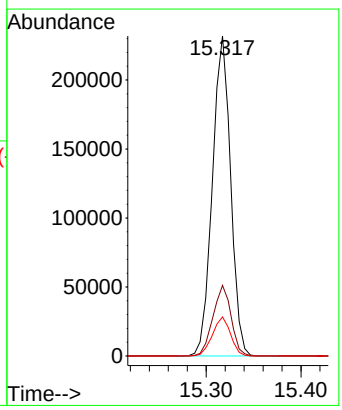
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

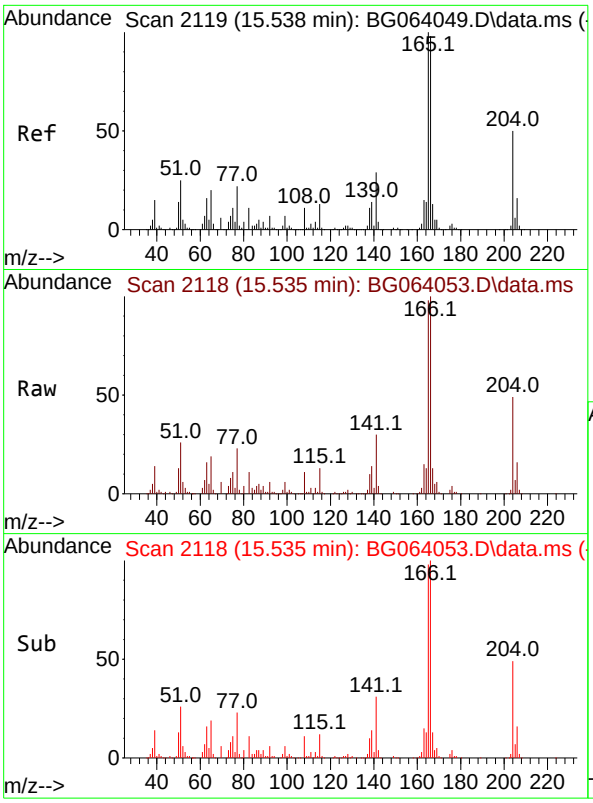


#60
Diethylphthalate
Concen: 41.198 ng
RT: 15.317 min Scan# 2081
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:149 Resp: 309434

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.4	26.2
150	12.2	9.4	14.2

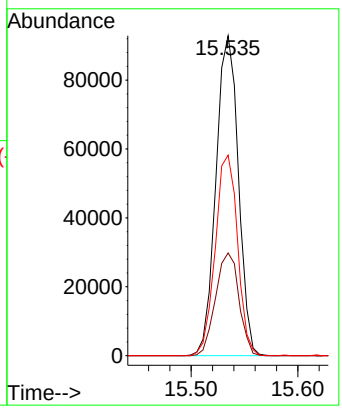




#61
4-Chlorophenyl-phenylether
Concen: 39.367 ng
RT: 15.535 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:204 Resp: 13531

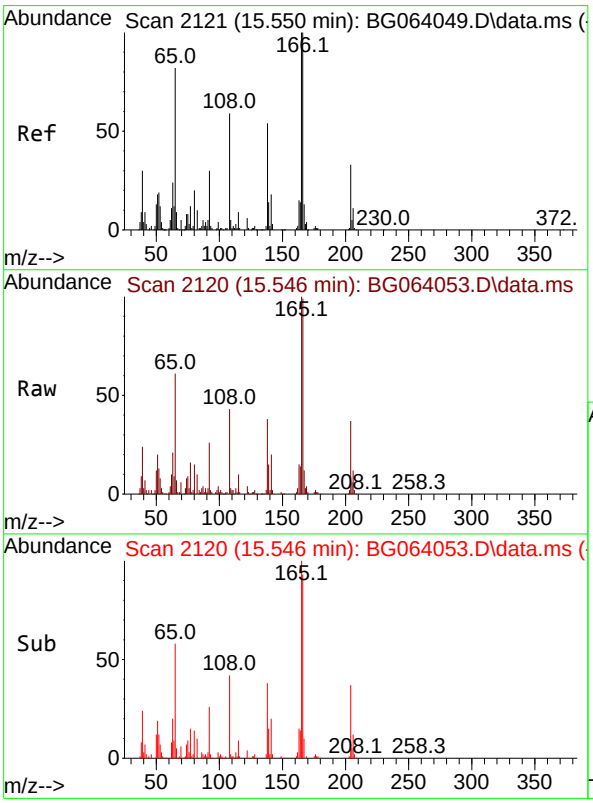
Ion	Ratio	Lower	Upper
204	100		
206	32.1	25.5	38.3
141	62.7	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

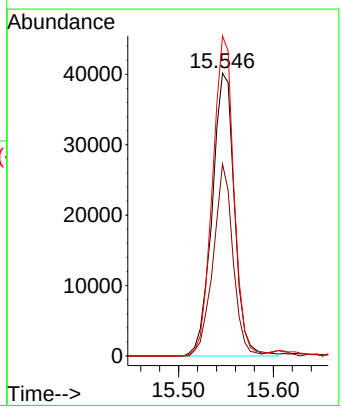
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

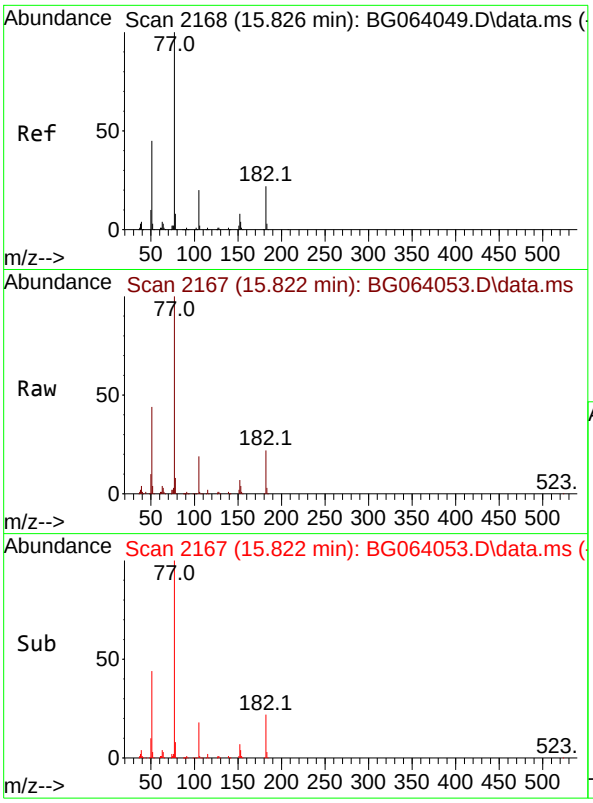


#62
4-Nitroaniline
Concen: 45.576 ng
RT: 15.546 min Scan# 2120
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:138 Resp: 65797

Ion	Ratio	Lower	Upper
138	100		
92	67.9	36.1	76.1
108	113.2	87.9	127.9

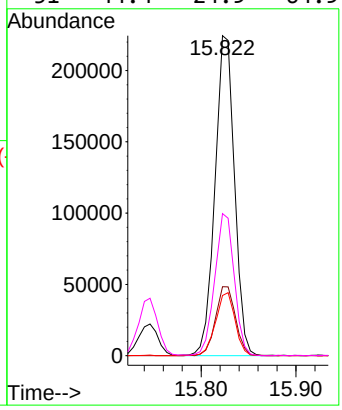




#63
Azobenzene
Concen: 40.137 ng
RT: 15.822 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion: 77 Resp: 32168

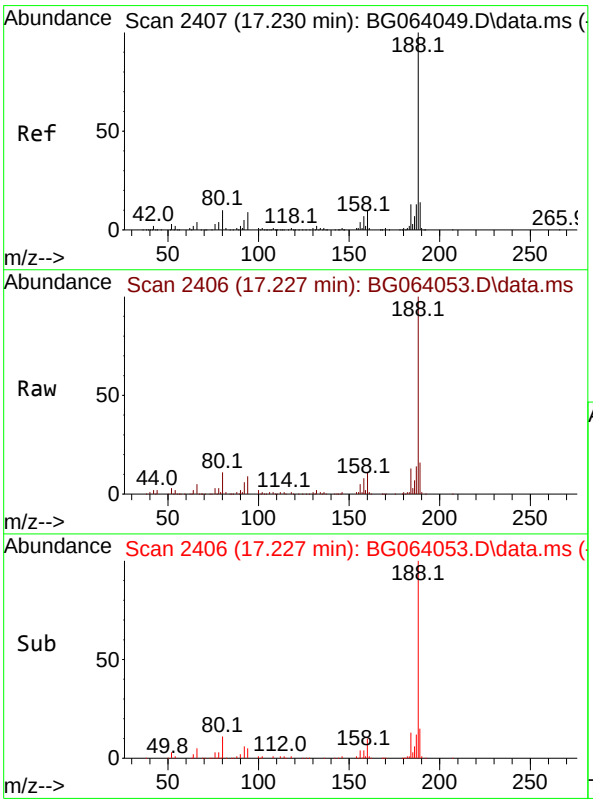
Ion	Ratio	Lower	Upper
77	100		
182	21.5	2.4	42.4
105	18.8	0.0	40.0
51	44.4	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

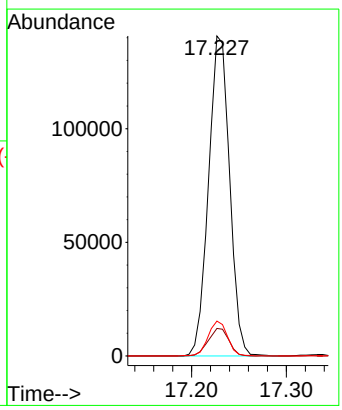
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

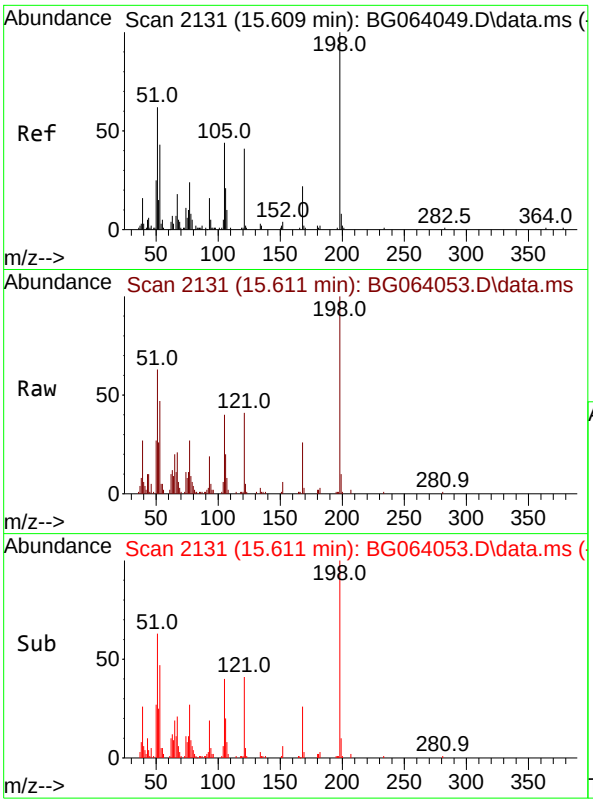


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:188 Resp: 217148

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.9	10.3
80	10.9	8.1	12.1

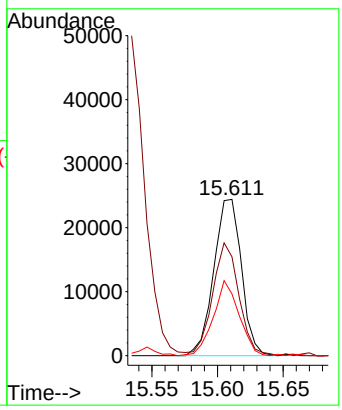




#65
4,6-Dinitro-2-methylphenol
Concen: 39.817 ng
RT: 15.611 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:198 Resp: 3577

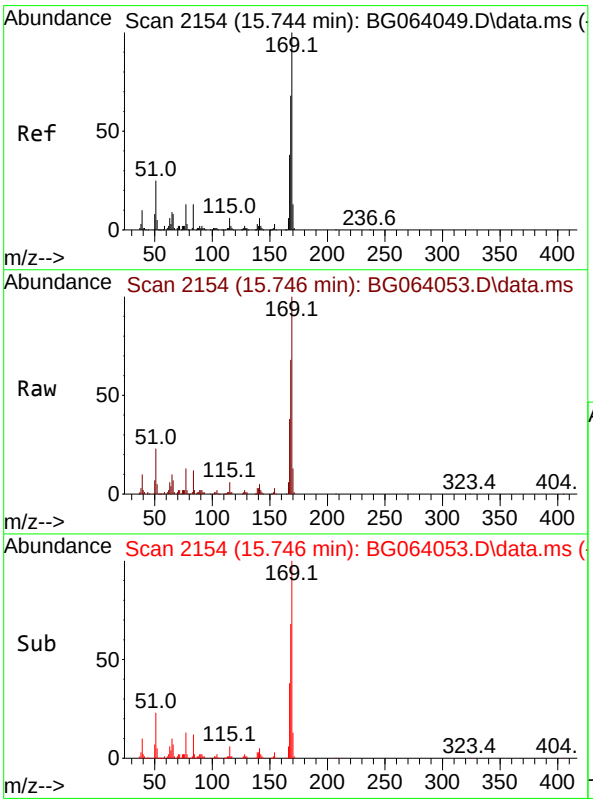
Ion	Ratio	Lower	Upper
198	100		
51	63.3	45.6	85.6
105	39.5	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

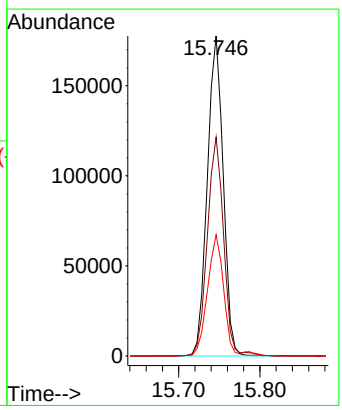
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

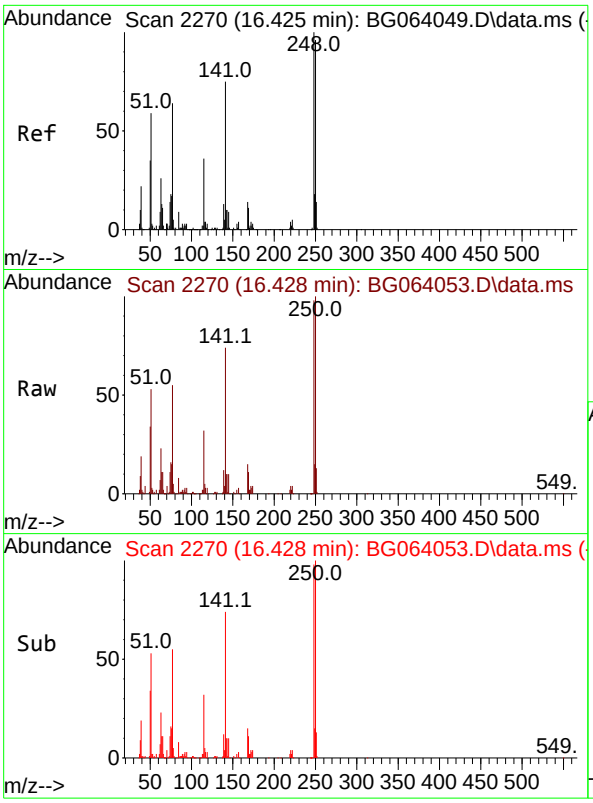


#66
n-Nitrosodiphenylamine
Concen: 39.248 ng
RT: 15.746 min Scan# 2154
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:169 Resp: 241241

Ion	Ratio	Lower	Upper
169	100		
168	68.4	54.1	81.1
167	37.9	30.3	45.5

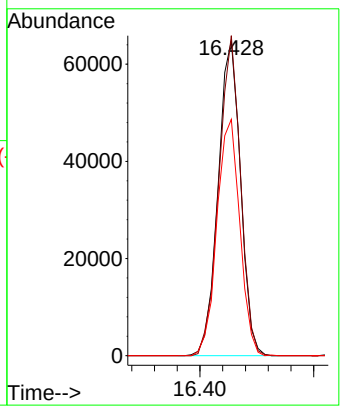




#67
4-Bromophenyl-phenylether
Concen: 39.772 ng
RT: 16.428 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:248 Resp: 8845

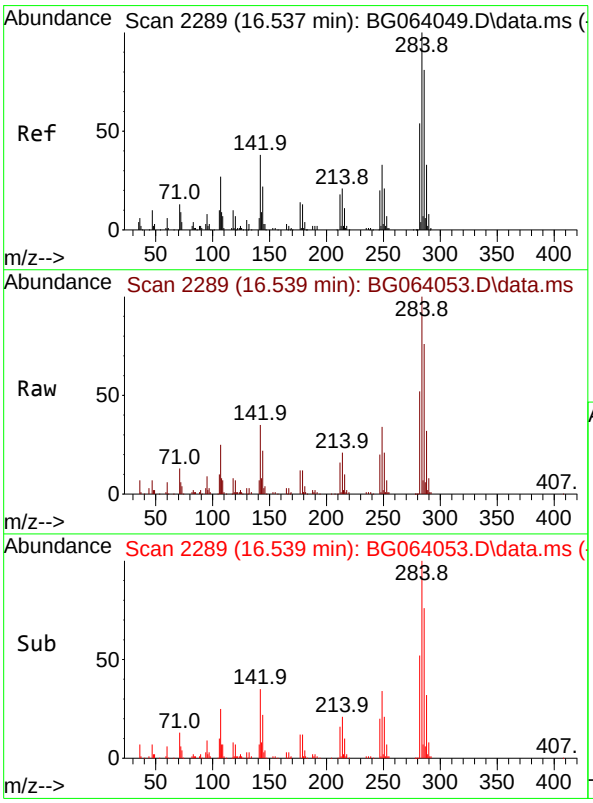
Ion	Ratio	Lower	Upper
248	100		
250	101.6	77.1	115.7
141	75.0	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

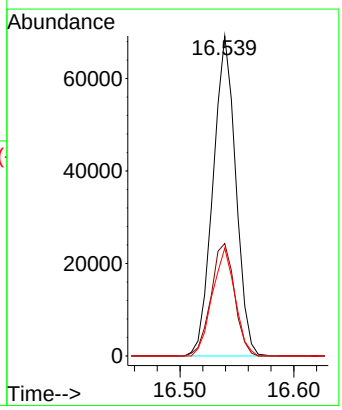
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

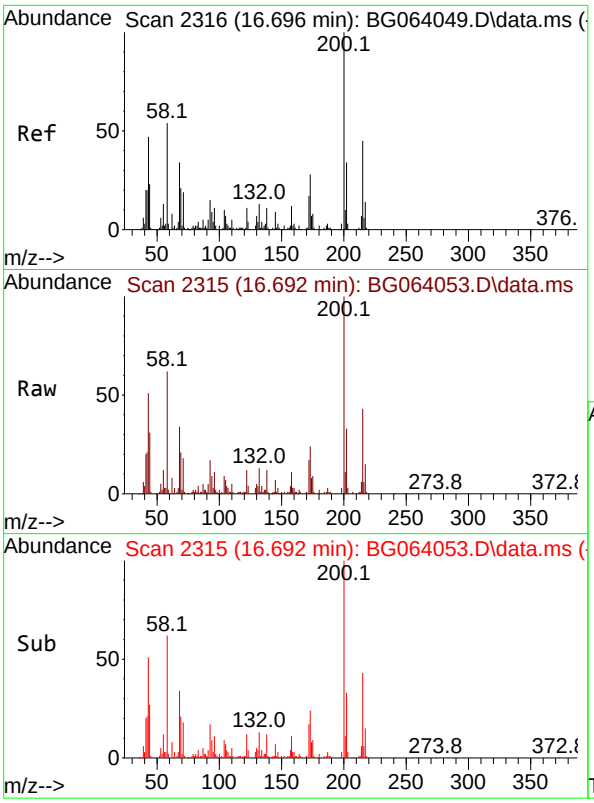


#68
Hexachlorobenzene
Concen: 38.611 ng
RT: 16.539 min Scan# 2289
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:284 Resp: 96136

Ion	Ratio	Lower	Upper
284	100		
142	35.2	30.6	45.8
249	33.7	26.6	39.8

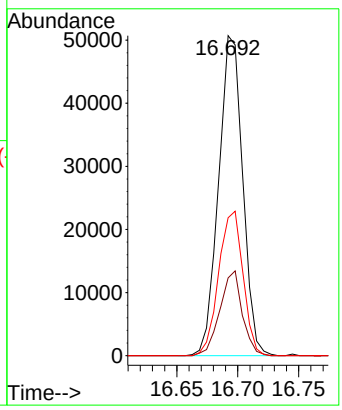




#69
Atrazine
Concen: 38.607 ng
RT: 16.692 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:200 Resp: 6982

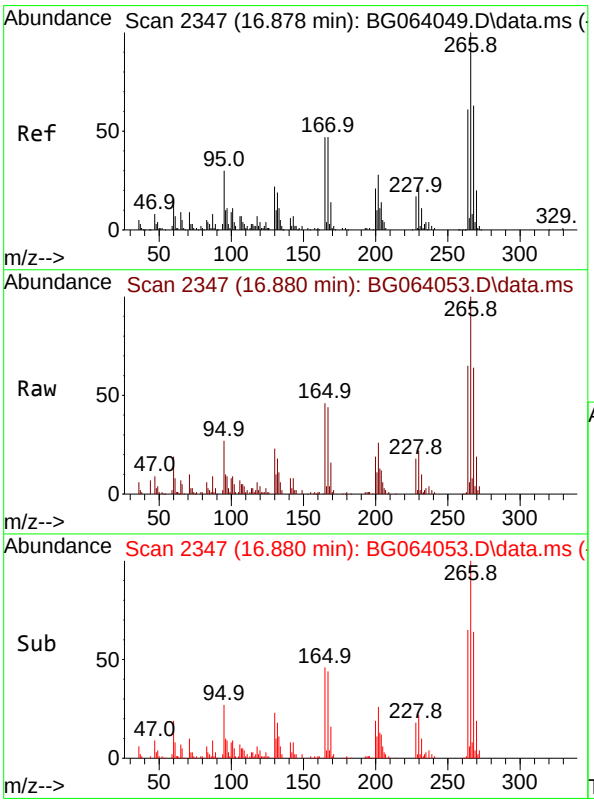
Ion	Ratio	Lower	Upper
200	100		
173	24.3	8.2	48.2
215	43.1	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

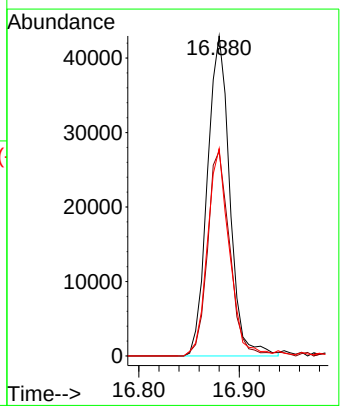
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

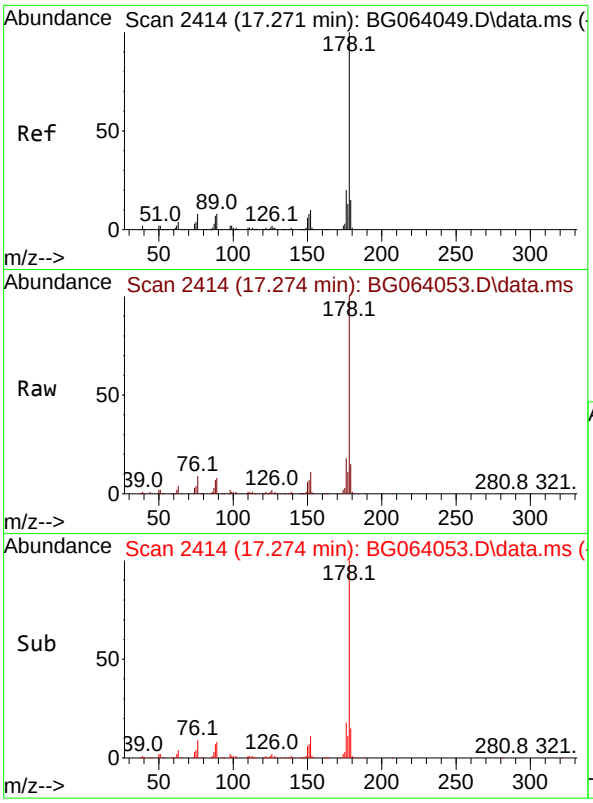


#70
Pentachlorophenol
Concen: 43.019 ng
RT: 16.880 min Scan# 2347
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:266 Resp: 66504

Ion	Ratio	Lower	Upper
266	100		
268	64.0	50.2	75.4
264	64.8	48.9	73.3

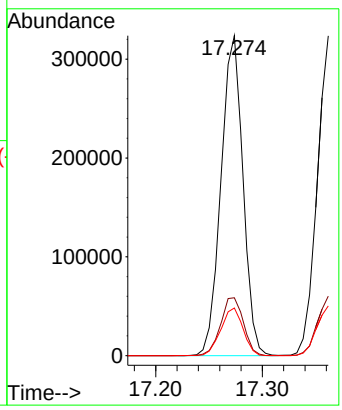




#71
Phenanthrene
Concen: 39.978 ng
RT: 17.274 min Scan# 24
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:178 Resp: 46302

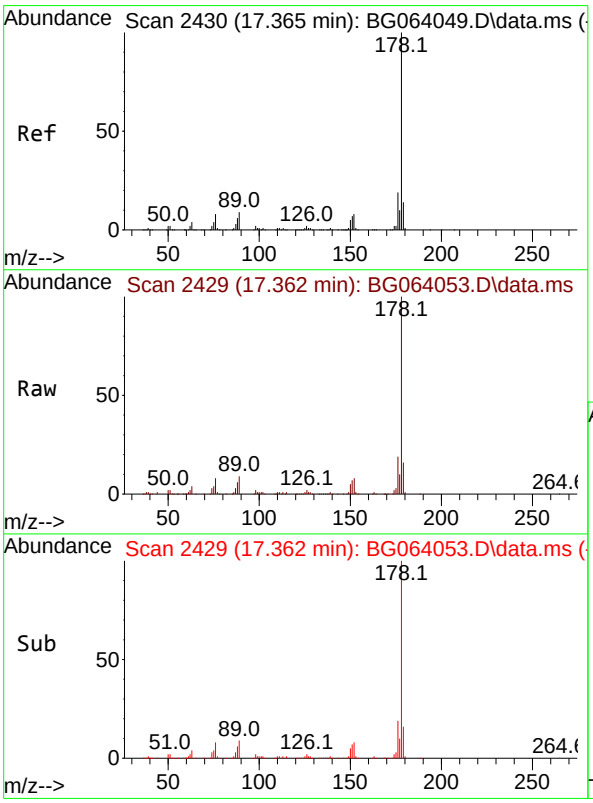
Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.9	23.9
179	14.9	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

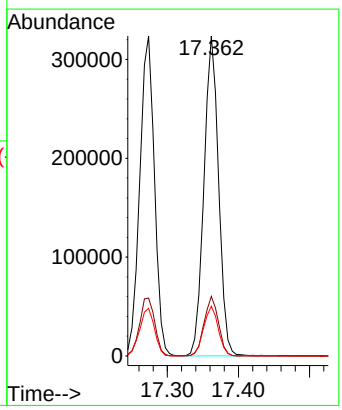
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

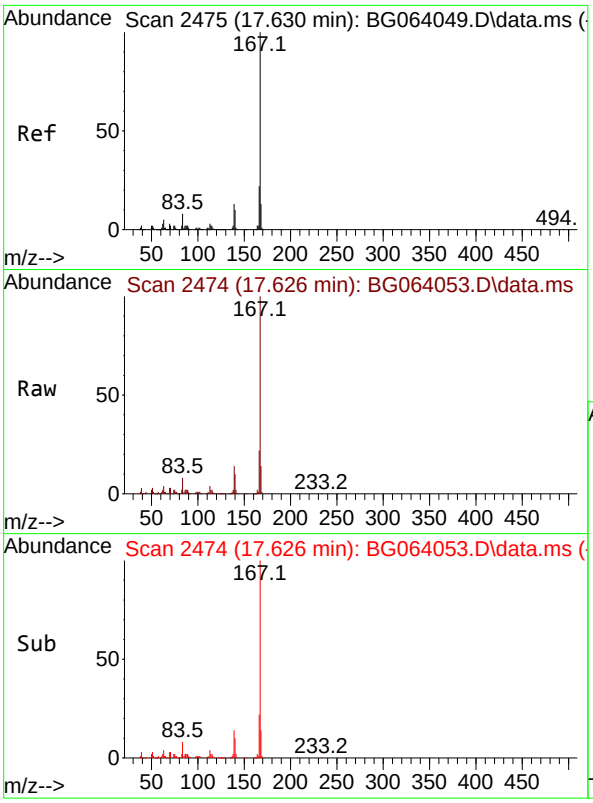


#72
Anthracene
Concen: 40.280 ng
RT: 17.362 min Scan# 2429
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:178 Resp: 463897

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.8	22.2
179	15.6	11.5	17.3

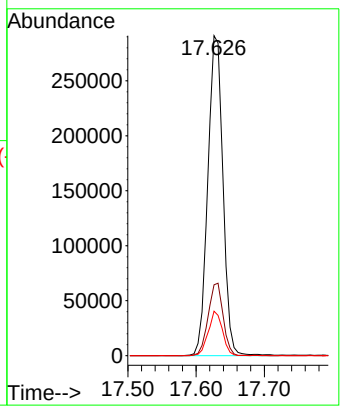




#73
Carbazole
Concen: 41.831 ng
RT: 17.626 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:167 Resp: 44980

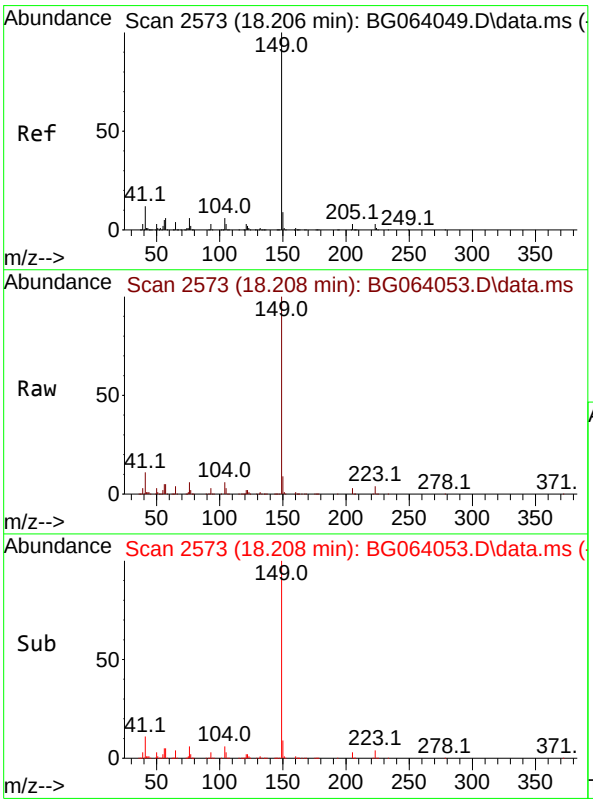
Ion	Ratio	Lower	Upper
167	100		
166	22.2	18.0	27.0
139	13.9	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

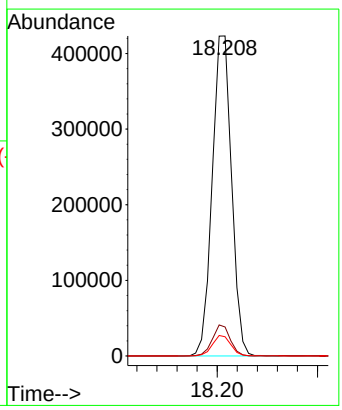
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

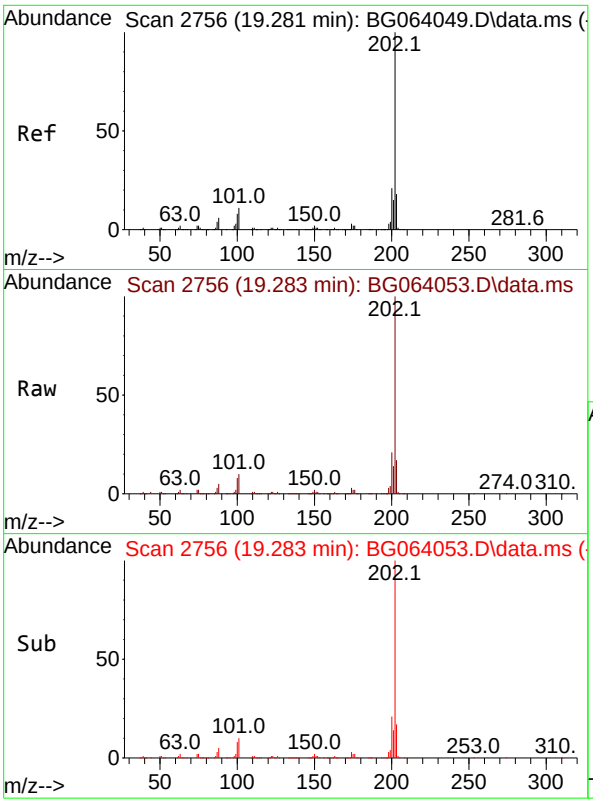


#74
Di-n-butylphthalate
Concen: 44.702 ng
RT: 18.208 min Scan# 2573
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:149 Resp: 565797

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	6.0	5.0	7.6

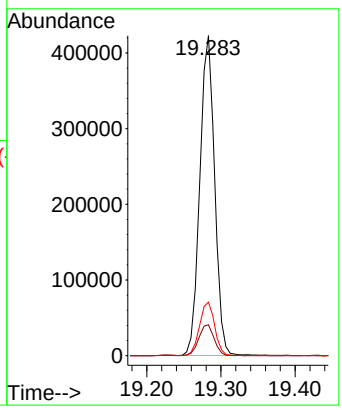




#75
Fluoranthene
Concen: 42.146 ng
RT: 19.283 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:202 Resp: 58849

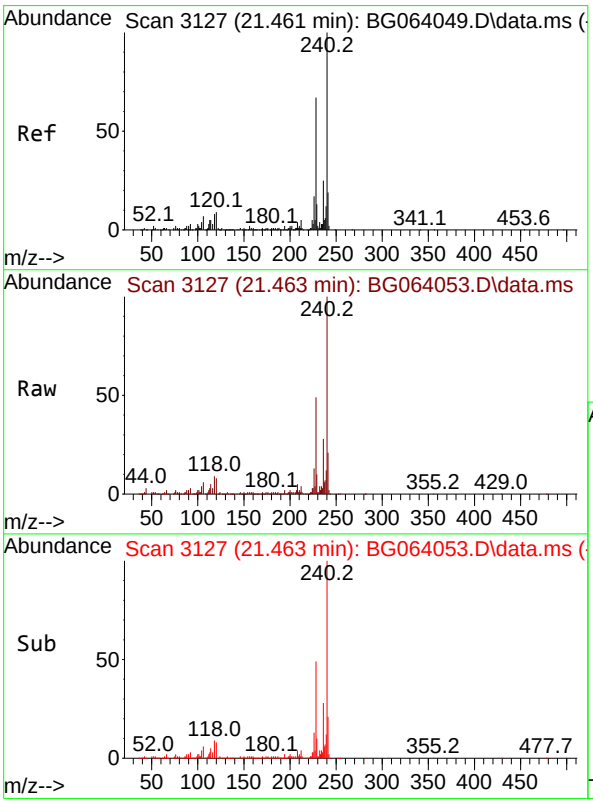
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	30.5
203	16.8	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

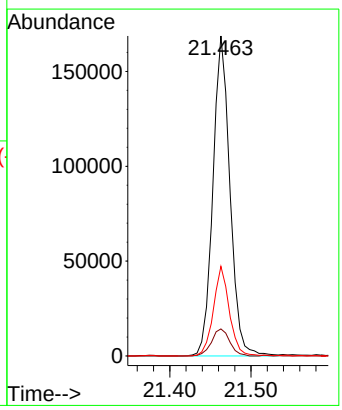
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

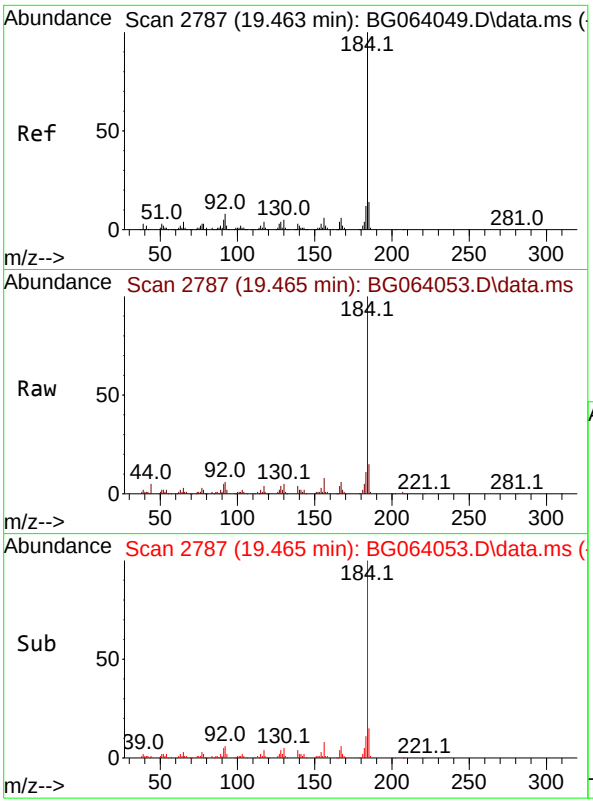


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.463 min Scan# 3127
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:240 Resp: 246166

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.2	10.8
236	28.0	20.2	30.2

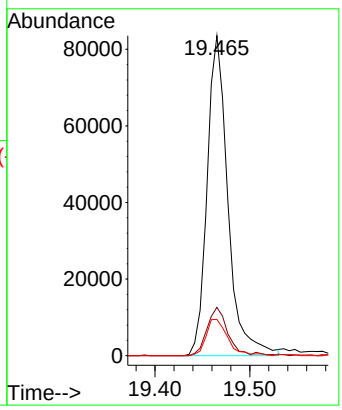




#77
Benzidine
Concen: 37.383 ng
RT: 19.465 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:184 Resp: 12742

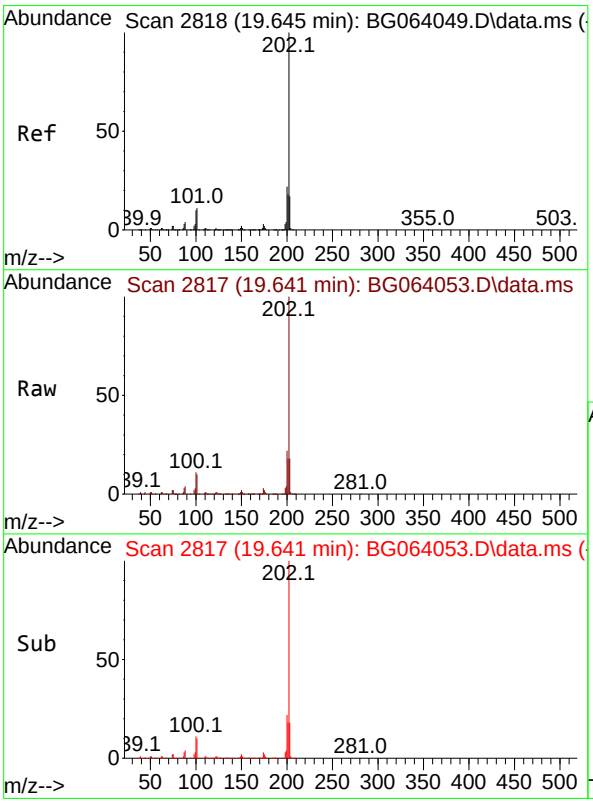
Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.3	16.9
183	11.3	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

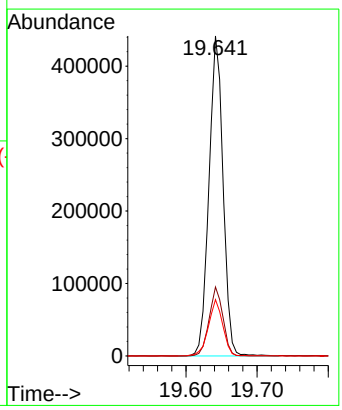
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

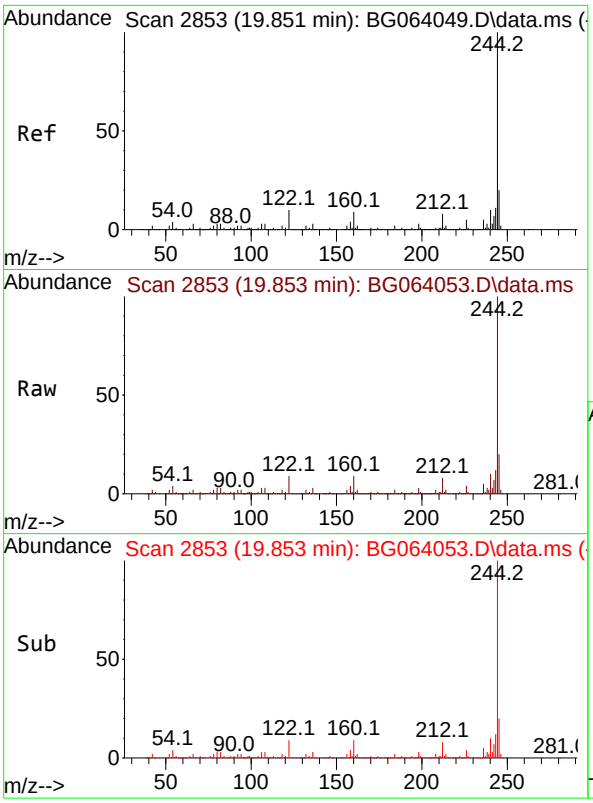


#78
Pyrene
Concen: 38.357 ng
RT: 19.641 min Scan# 2817
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:202 Resp: 608668

Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.3	25.9
203	17.6	13.6	20.4

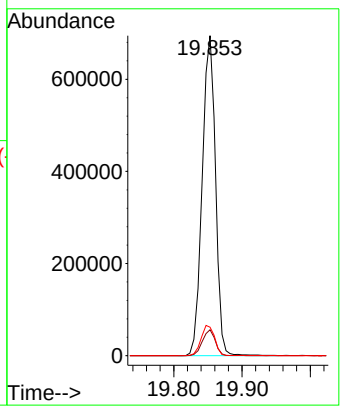




#79
Terphenyl-d14
Concen: 77.284 ng
RT: 19.853 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:244 Resp: 94088

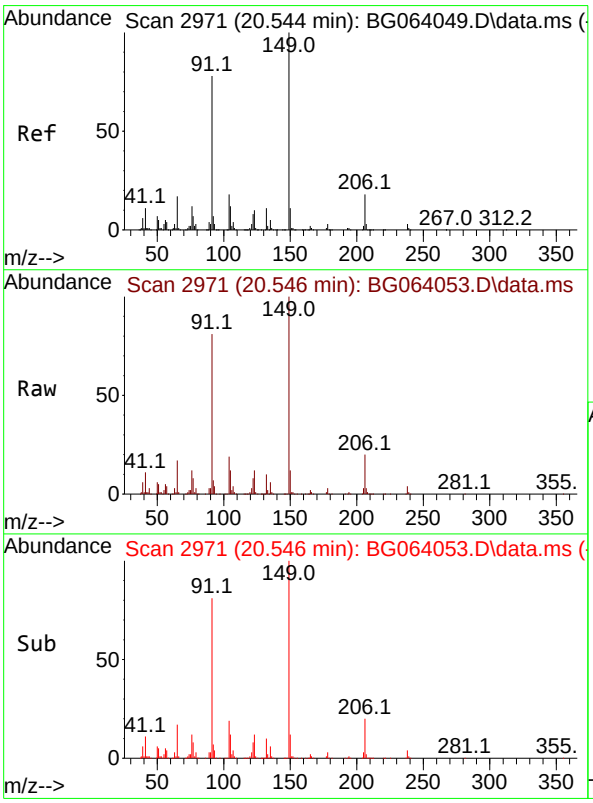
Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	8.9	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

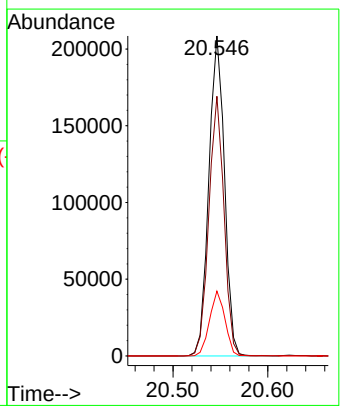
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

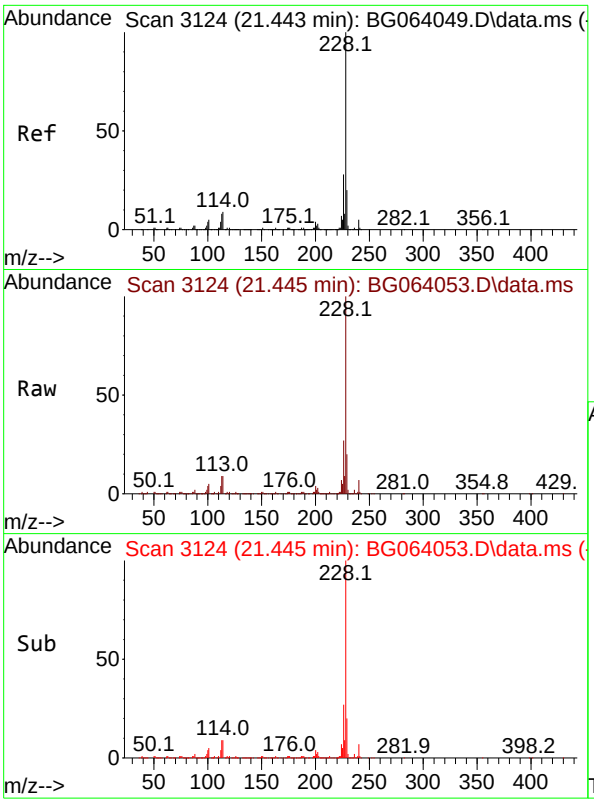


#80
Butylbenzylphthalate
Concen: 40.680 ng
RT: 20.546 min Scan# 2971
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:149 Resp: 238653

Ion	Ratio	Lower	Upper
149	100		
91	81.2	62.0	93.0
206	20.2	14.6	21.8

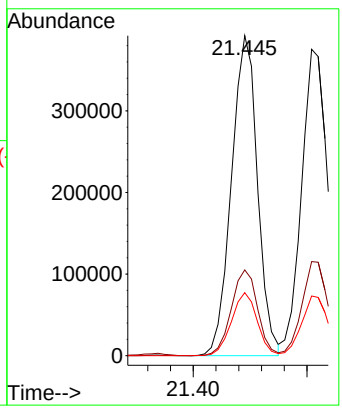




#81
Benzo(a)anthracene
Concen: 39.598 ng
RT: 21.445 min Scan# 3
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:228 Resp: 62440

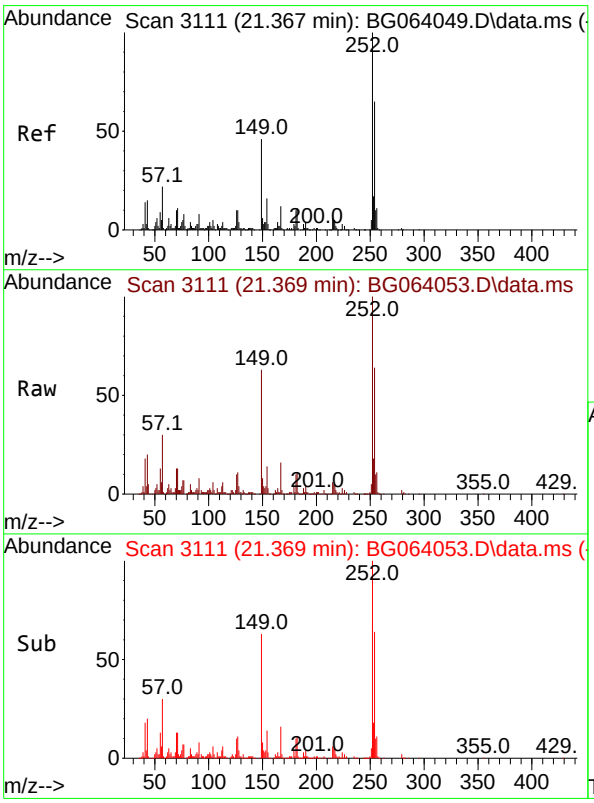
Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.2	33.2
229	19.7	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

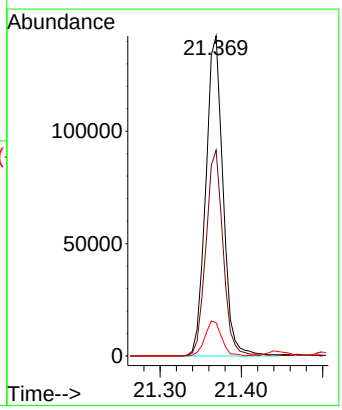
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

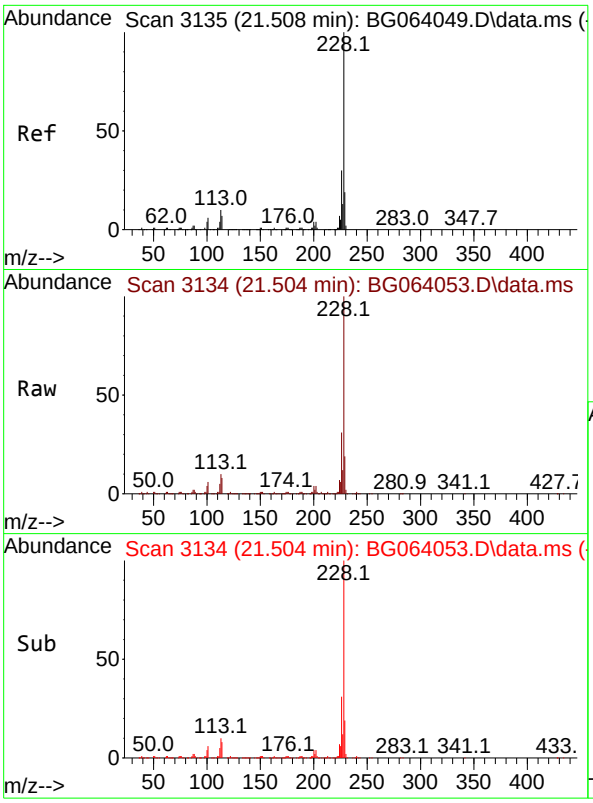


#82
3,3'-Dichlorobenzidine
Concen: 41.103 ng
RT: 21.369 min Scan# 3111
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 209761

Ion	Ratio	Lower	Upper
252	100		
254	64.3	52.1	78.1
126	10.4	7.8	11.8

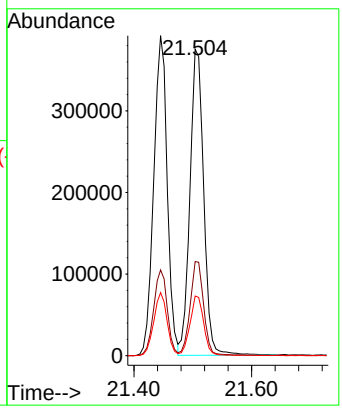




#83
Chrysene
Concen: 38.876 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:228 Resp: 61141

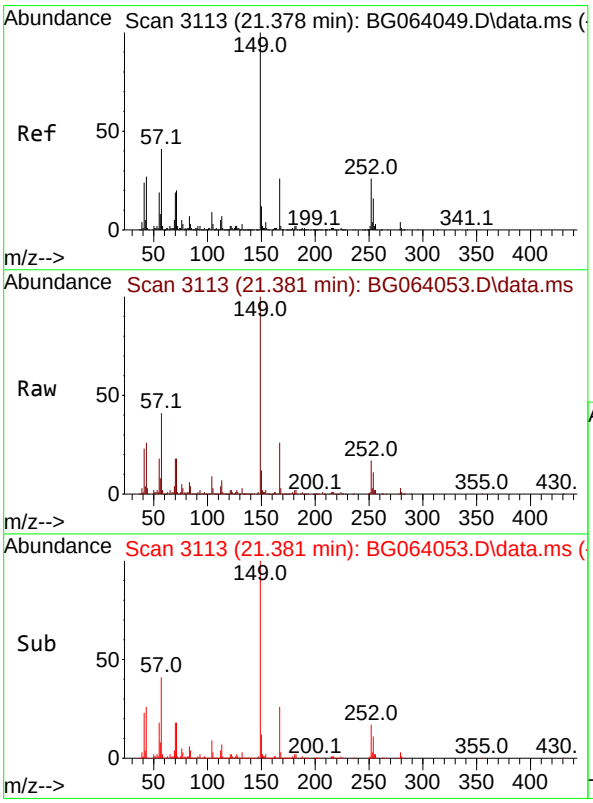
Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.9	35.9
229	19.5	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

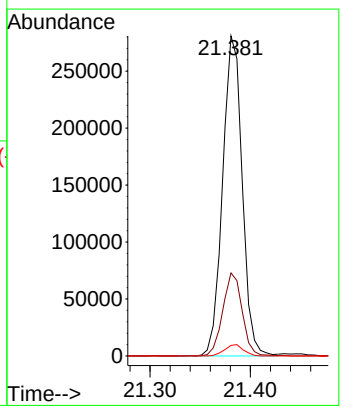
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

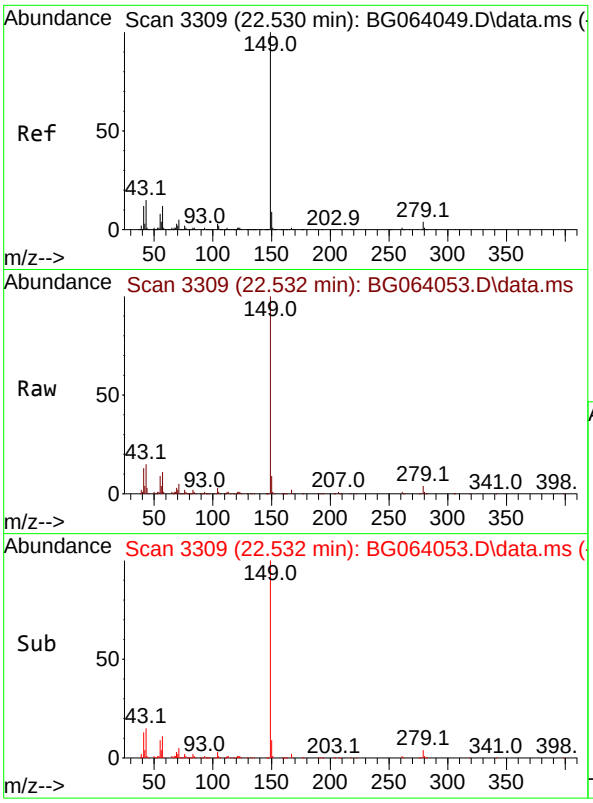


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.551 ng
RT: 21.381 min Scan# 3113
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:149 Resp: 379928

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.6
279	3.3	2.8	4.2

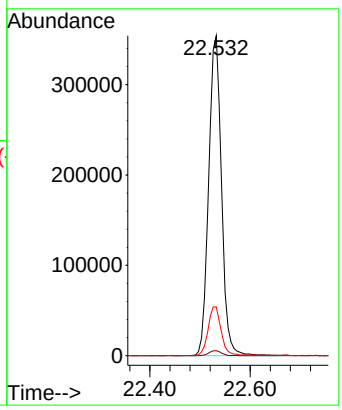




#85
Di-n-octyl phthalate
Concen: 42.688 ng
RT: 22.532 min Scan# 3
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:149 Resp: 62792

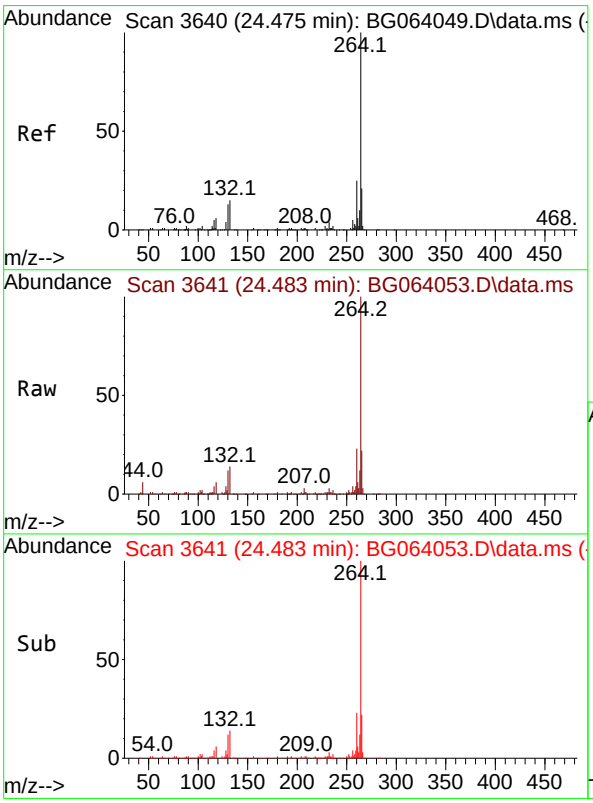
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	15.6	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

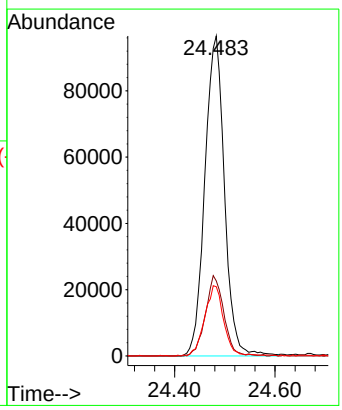
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

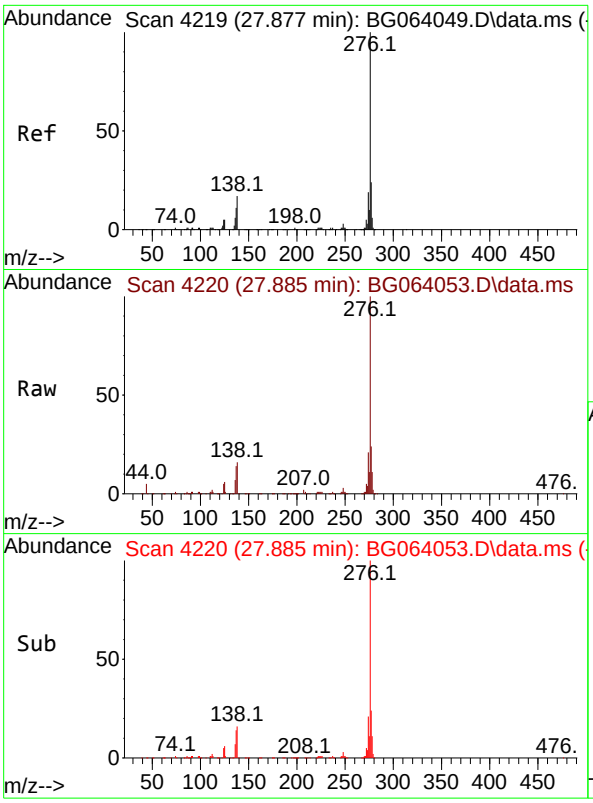


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.483 min Scan# 3641
Delta R.T. 0.008 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:264 Resp: 261789

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.6	29.4
265	21.7	16.6	25.0

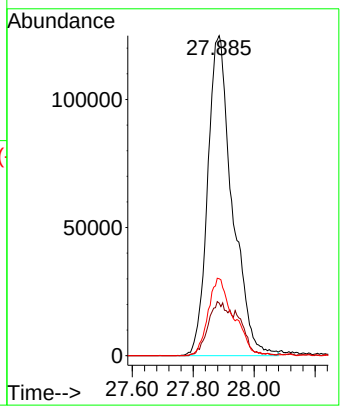




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.918 ng
RT: 27.885 min Scan# 4
Delta R.T. 0.008 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:276 Resp: 69919

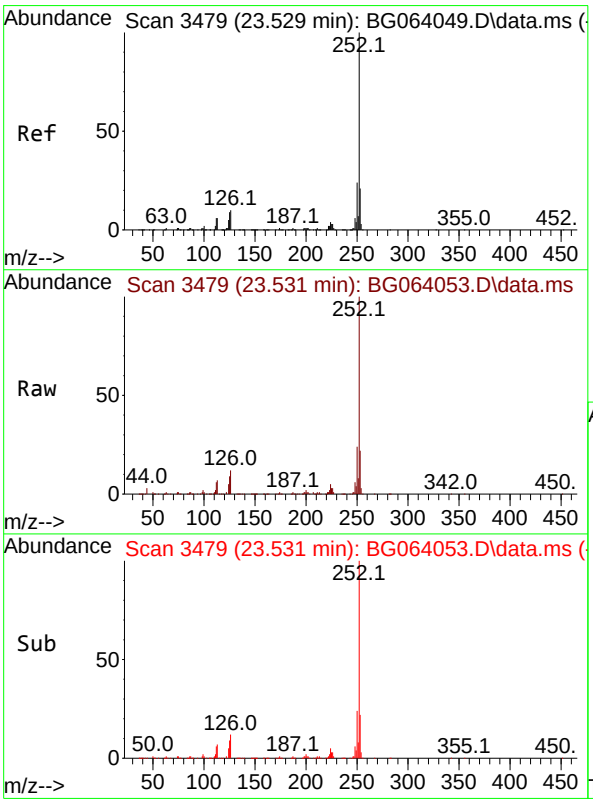
Ion	Ratio	Lower	Upper
276	100		
138	15.1	12.1	18.1
277	25.0	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations
APPROVED

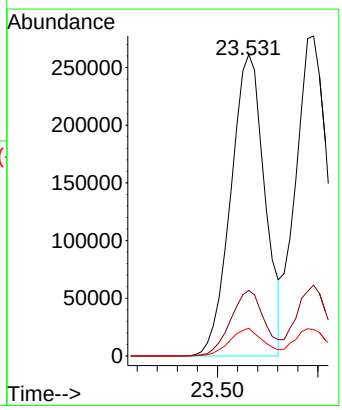
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

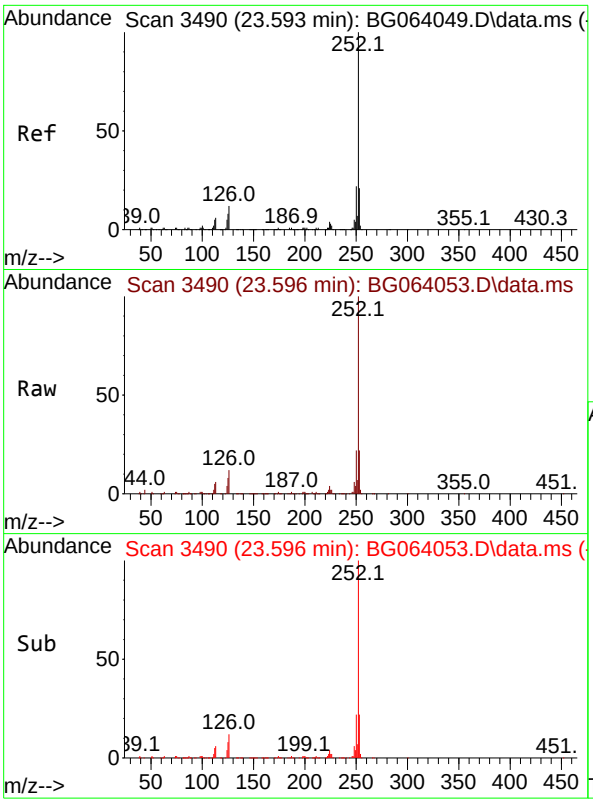


#88
Benzo(b)fluoranthene
Concen: 38.901 ng
RT: 23.531 min Scan# 3479
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 615644

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.0	25.4
125	9.2	7.4	11.2

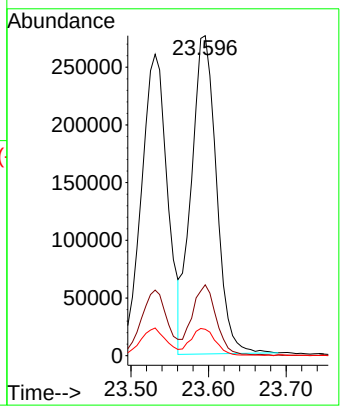




#89
Benzo(k)fluoranthene
Concen: 39.079 ng
RT: 23.596 min Scan# 34
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 62044

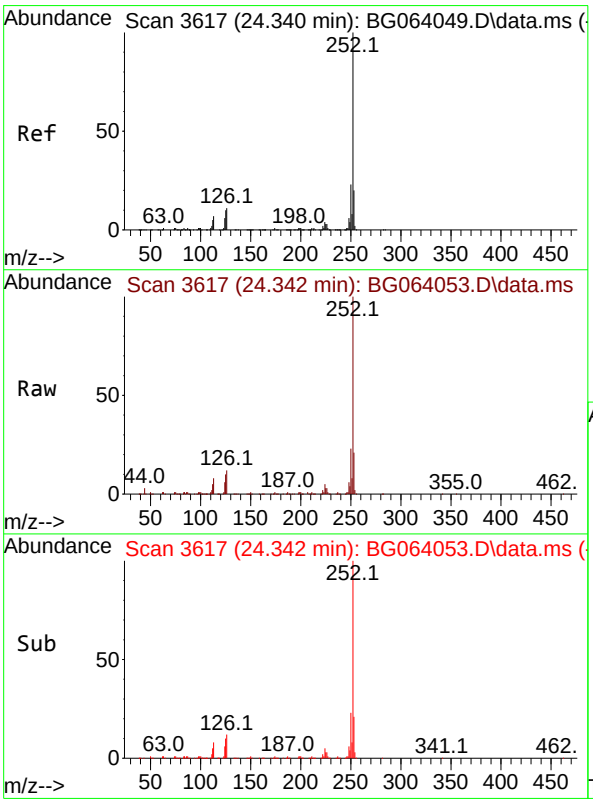
Ion	Ratio	Lower	Upper
252	100		
253	22.1	16.8	25.2
125	8.2	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

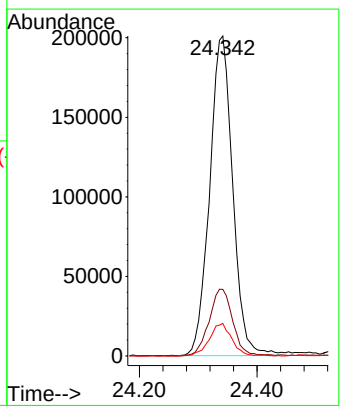
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025

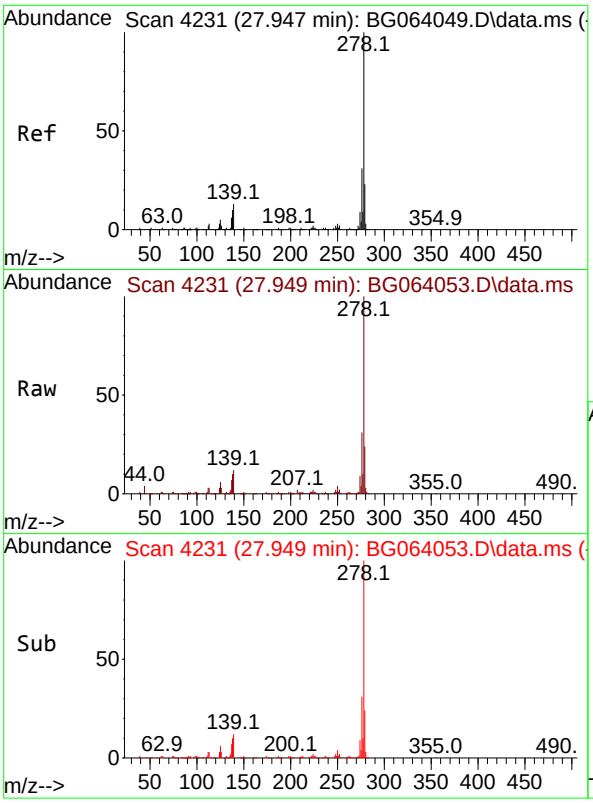


#90
Benzo(a)pyrene
Concen: 38.765 ng
RT: 24.342 min Scan# 3617
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:252 Resp: 546383

Ion	Ratio	Lower	Upper
252	100		
253	20.8	16.2	24.2
125	10.1	7.8	11.6

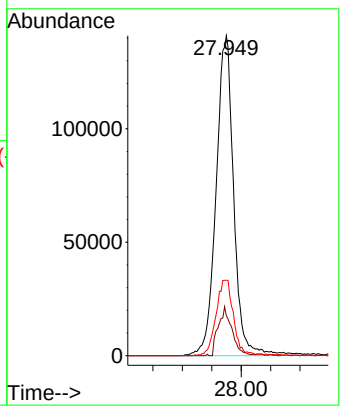




#91
Dibenzo(a,h)anthracene
Concen: 40.162 ng
RT: 27.949 min Scan# 4
Delta R.T. 0.002 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:278 Resp: 58319

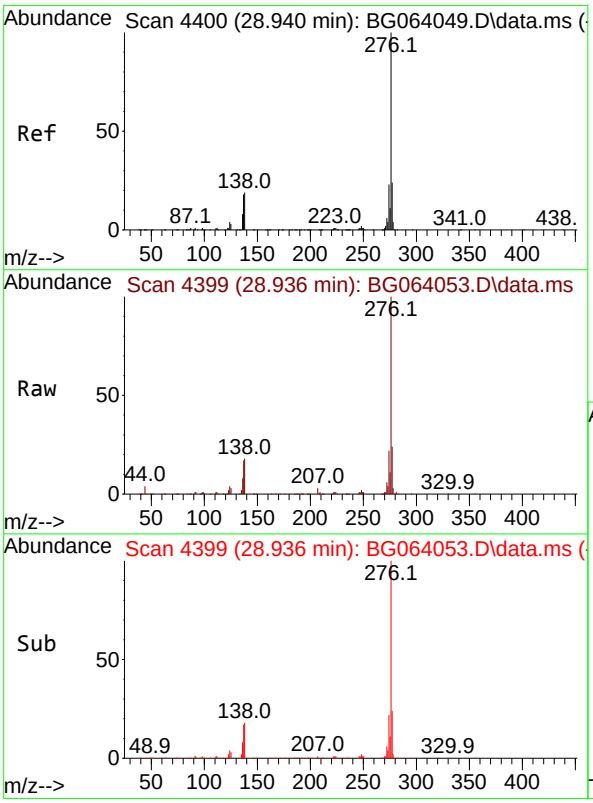
Ion	Ratio	Lower	Upper
278	100		
139	12.5	10.2	15.2
279	23.6	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Manual Integrations APPROVED

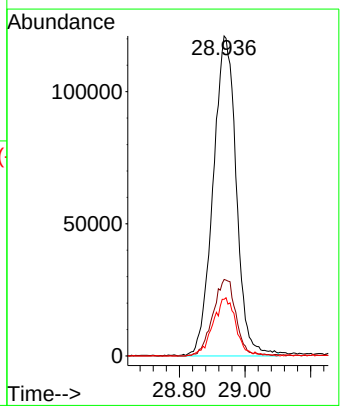
Reviewed By :Jagrut Upadhyay 03/06/2025
Supervised By :mohammad ahmed 03/07/2025



#92
Benzo(g,h,i)perylene
Concen: 39.740 ng
RT: 28.936 min Scan# 4399
Delta R.T. -0.004 min
Lab File: BG064053.D
Acq: 5 Mar 2025 15:10

Tgt Ion:276 Resp: 592494

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.5	29.3
138	17.7	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.00
2		1,4-Dioxane	0.580	0.584	-0.7	97	0.00
3		Pyridine	1.412	1.409	0.2	87	0.00
4		n-Nitrosodimethylamine	1.009	1.008	0.1	92	0.00
5	S	2-Fluorophenol	1.281	1.262	1.5	91	0.00
6		Aniline	1.710	1.605	6.1	86	0.00
7	S	Phenol-d6	1.742	1.644	5.6	86	0.00
8		2-Chlorophenol	1.376	1.321	4.0	89	0.00
9		Benzaldehyde	1.013	0.965	4.7	93	0.00
10	C	Phenol	1.784	1.731	3.0	89	0.00
11		bis(2-Chloroethyl)ether	1.399	1.288	7.9	88	0.00
12		1,3-Dichlorobenzene	1.511	1.393	7.8	88	0.00
13	C	1,4-Dichlorobenzene	1.548	1.420	8.3	87	0.00
14		1,2-Dichlorobenzene	1.493	1.370	8.2	88	0.00
15		Benzyl Alcohol	1.346	1.280	4.9	87	0.00
16		2,2'-oxybis(1-Chloropropane	3.145	2.873	8.6	85	0.00
17		2-Methylphenol	1.184	1.115	5.8	85	0.00
18		Hexachloroethane	0.542	0.534	1.5	90	0.00
19	P	n-Nitroso-di-n-propylamine	1.223	1.090	10.9	80	0.00
20		3+4-Methylphenols	1.630	1.515	7.1	86	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	87	0.00
22		Acetophenone	0.548	0.539	1.6	83	0.00
23	S	Nitrobenzene-d5	0.362	0.381	-5.2	86	0.00
24		Nitrobenzene	0.374	0.395	-5.6	86	0.00
25		Isophorone	0.724	0.685	5.4	80	0.00
26	C	2-Nitrophenol	0.112	0.127	-13.4	91	0.00
27		2,4-Dimethylphenol	0.217	0.218	-0.5	83	0.00
28		bis(2-Chloroethoxy)methane	0.439	0.424	3.4	83	0.00
29	C	2,4-Dichlorophenol	0.274	0.282	-2.9	86	0.00
30		1,2,4-Trichlorobenzene	0.331	0.321	3.0	84	0.00
31		Naphthalene	1.078	1.062	1.5	86	0.00
32		Benzoic acid	0.170	0.178	-4.7	90	-0.02
33		4-Chloroaniline	0.394	0.394	0.0	82	0.00
34	C	Hexachlorobutadiene	0.217	0.215	0.9	86	0.00
35		Caprolactam	0.105	0.111	-5.7	87	-0.02
36	C	4-Chloro-3-methylphenol	0.359	0.356	0.8	83	0.00
37		2-Methylnaphthalene	0.761	0.732	3.8	84	0.00
38		1-Methylnaphthalene	0.746	0.722	3.2	83	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	0.571	0.566	0.9	80	0.00
41	P	Hexachlorocyclopentadiene	0.161	0.176	-9.3	83	0.00
42	S	2,4,6-Tribromophenol	0.222	0.251	-13.1	86	0.00
43	C	2,4,6-Trichlorophenol	0.337	0.355	-5.3	82	0.00
44		2,4,5-Trichlorophenol	0.374	0.398	-6.4	81	0.00
45	S	2-Fluorobiphenyl	1.318	1.321	-0.2	80	0.00
46		1,1'-Biphenyl	1.511	1.518	-0.5	82	0.00
47		2-Chloronaphthalene	1.102	1.111	-0.8	81	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.318	0.367	-15.4	87	0.00
49		Acenaphthylene	1.743	1.767	-1.4	82	0.00
50		Dimethylphthalate	1.476	1.466	0.7	80	0.00
51		2,6-Dinitrotoluene	0.261	0.300	-14.9	85	0.00
52	C	Acenaphthene	1.170	1.182	-1.0	82	0.00
53		3-Nitroaniline	0.285	0.321	-12.6	84	0.00
54	P	2,4-Dinitrophenol	0.102	0.115	-12.7	95	0.00
55		Dibenzofuran	1.895	1.896	-0.1	81	0.00
56	P	4-Nitrophenol	0.239	0.284	-18.8	91	0.00
57		2,4-Dinitrotoluene	0.357	0.428	-19.9	88	0.00
58		Fluorene	1.476	1.491	-1.0	83	0.00
59		2,3,4,6-Tetrachlorophenol	0.365	0.392	-7.4	82	0.00
60		Diethylphthalate	1.603	1.651	-3.0	82	0.00
61		4-Chlorophenyl-phenylether	0.733	0.722	1.5	81	0.00
62		4-Nitroaniline	0.308	0.351	-14.0	84	0.00
63		Azobenzene	1.710	1.716	-0.4	81	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	0.076	0.082	-7.9	93	0.00
66	c	n-Nitrosodiphenylamine	0.566	0.555	1.9	80	0.00
67		4-Bromophenyl-phenylether	0.205	0.204	0.5	81	0.00
68		Hexachlorobenzene	0.229	0.221	3.5	81	0.00
69		Atrazine	0.167	0.161	3.6	84	0.00
70	C	Pentachlorophenol	0.142	0.153	-7.7	86	0.00
71		Phenanthrene	1.067	1.066	0.1	83	0.00
72		Anthracene	1.061	1.068	-0.7	82	0.00
73		Carbazole	0.990	1.036	-4.6	84	0.00
74		Di-n-butylphthalate	1.166	1.303	-11.7	87	0.00
75	C	Fluoranthene	1.286	1.355	-5.4	86	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
77		Benzidine	0.277	0.259	6.5	75	0.00
78		Pyrene	1.289	1.236	4.1	85	0.00
79	S	Terphenyl-d14	0.989	0.956	3.3	86	0.00
80		Butylbenzylphthalate	0.423	0.485	-14.7	94	0.00
81		Benzo(a)anthracene	1.281	1.268	1.0	88	0.00
82		3,3'-Dichlorobenzidine	0.415	0.426	-2.7	86	0.00
83		Chrysene	1.278	1.242	2.8	86	0.00
84		Bis(2-ethylhexyl)phthalate	0.693	0.772	-11.4	92	0.00
85	c	Di-n-octyl phthalate	1.195	1.275	-6.7	93	0.00
86	I	Perylene-d12	1.000	1.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	1.338	1.335	0.2	88	0.00
88		Benzo(b)fluoranthene	1.209	1.176	2.7	87	0.00
89		Benzo(k)fluoranthene	1.213	1.185	2.3	85	0.00
90	C	Benzo(a)pyrene	1.077	1.044	3.1	85	0.00
91		Dibenzo(a,h)anthracene	1.109	1.114	-0.5	89	0.00
92		Benzo(g,h,i)perylene	1.139	1.132	0.6	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	97	0.00
2		1,4-Dioxane	40.000	40.218	-0.5	97	0.00
3		Pyridine	40.000	39.931	0.2	87	0.00
4		n-Nitrosodimethylamine	40.000	39.980	0.1	92	0.00
5	S	2-Fluorophenol	80.000	78.823	1.5	91	0.00
6		Aniline	40.000	37.544	6.1	86	0.00
7	S	Phenol-d6	80.000	75.496	5.6	86	0.00
8		2-Chlorophenol	40.000	38.417	4.0	89	0.00
9		Benzaldehyde	40.000	38.087	4.8	93	0.00
10	C	Phenol	40.000	38.806	3.0	89	0.00
11		bis(2-Chloroethyl)ether	40.000	36.822	7.9	88	0.00
12		1,3-Dichlorobenzene	40.000	36.876	7.8	88	0.00
13	C	1,4-Dichlorobenzene	40.000	36.676	8.3	87	0.00
14		1,2-Dichlorobenzene	40.000	36.695	8.3	88	0.00
15		Benzyl Alcohol	40.000	38.023	4.9	87	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.540	8.7	85	0.00
17		2-Methylphenol	40.000	37.680	5.8	85	0.00
18		Hexachloroethane	40.000	39.404	1.5	90	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	35.648	10.9	80	0.00
20		3+4-Methylphenols	40.000	37.166	7.1	86	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	87	0.00
22		Acetophenone	40.000	39.285	1.8	83	0.00
23	S	Nitrobenzene-d5	80.000	84.279	-5.3	86	0.00
24		Nitrobenzene	40.000	42.208	-5.5	86	0.00
25		Isophorone	40.000	37.823	5.4	80	0.00
26	C	2-Nitrophenol	40.000	40.946	-2.4	91	0.00
27		2,4-Dimethylphenol	40.000	40.139	-0.3	83	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.620	3.5	83	0.00
29	C	2,4-Dichlorophenol	40.000	41.154	-2.9	86	0.00
30		1,2,4-Trichlorobenzene	40.000	38.802	3.0	84	0.00
31		Naphthalene	40.000	39.402	1.5	86	0.00
32		Benzoic acid	40.000	37.906	5.2	90	-0.02
33		4-Chloroaniline	40.000	39.949	0.1	82	0.00
34	C	Hexachlorobutadiene	40.000	39.720	0.7	86	0.00
35		Caprolactam	40.000	42.084	-5.2	87	-0.02
36	C	4-Chloro-3-methylphenol	40.000	39.649	0.9	83	0.00
37		2-Methylnaphthalene	40.000	38.463	3.8	84	0.00
38		1-Methylnaphthalene	40.000	38.724	3.2	83	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	83	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.630	0.9	80	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.873	-9.7	83	0.00
42	S	2,4,6-Tribromophenol	80.000	90.311	-12.9	86	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.165	-5.4	82	0.00
44		2,4,5-Trichlorophenol	40.000	42.561	-6.4	81	0.00
45	S	2-Fluorobiphenyl	80.000	80.186	-0.2	80	0.00
46		1,1'-Biphenyl	40.000	40.196	-0.5	82	0.00
47		2-Chloronaphthalene	40.000	40.309	-0.8	81	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.405	-3.5	87	0.00
49		Acenaphthylene	40.000	40.537	-1.3	82	0.00
50		Dimethylphthalate	40.000	39.712	0.7	80	0.00
51		2,6-Dinitrotoluene	40.000	40.625	-1.6	85	0.00
52	C	Acenaphthene	40.000	40.428	-1.1	82	0.00
53		3-Nitroaniline	40.000	45.042	-12.6	84	0.00
54	P	2,4-Dinitrophenol	40.000	41.197	-3.0	95	0.00
55		Dibenzofuran	40.000	40.014	-0.0	81	0.00
56	P	4-Nitrophenol	40.000	47.537	-18.8	91	0.00
57		2,4-Dinitrotoluene	40.000	41.944	-4.9	88	0.00
58		Fluorene	40.000	40.403	-1.0	83	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	43.068	-7.7	82	0.00
60		Diethylphthalate	40.000	41.198	-3.0	82	0.00
61		4-Chlorophenyl-phenylether	40.000	39.367	1.6	81	0.00
62		4-Nitroaniline	40.000	45.576	-13.9	84	0.00
63		Azobenzene	40.000	40.137	-0.3	81	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.817	0.5	93	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.248	1.9	80	0.00
67		4-Bromophenyl-phenylether	40.000	39.772	0.6	81	0.00
68		Hexachlorobenzene	40.000	38.611	3.5	81	0.00
69		Atrazine	40.000	38.607	3.5	84	0.00
70	C	Pentachlorophenol	40.000	43.019	-7.5	86	0.00
71		Phenanthrene	40.000	39.978	0.1	83	0.00
72		Anthracene	40.000	40.280	-0.7	82	0.00
73		Carbazole	40.000	41.831	-4.6	84	0.00
74		Di-n-butylphthalate	40.000	44.702	-11.8	87	0.00
75	C	Fluoranthene	40.000	42.146	-5.4	86	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	90	0.00
77		Benzidine	40.000	37.383	6.5	75	0.00
78		Pyrene	40.000	38.357	4.1	85	0.00
79	S	Terphenyl-d14	80.000	77.284	3.4	86	0.00
80		Butylbenzylphthalate	40.000	40.680	-1.7	94	0.00
81		Benzo(a)anthracene	40.000	39.598	1.0	88	0.00
82		3,3'-Dichlorobenzidine	40.000	41.103	-2.8	86	0.00
83		Chrysene	40.000	38.876	2.8	86	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.551	-11.4	92	0.00
85	c	Di-n-octyl phthalate	40.000	42.688	-6.7	93	0.00
86	I	Perylene-d12	20.000	20.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.918	0.2	88	0.00
88		Benzo(b)fluoranthene	40.000	38.901	2.7	87	0.00
89		Benzo(k)fluoranthene	40.000	39.079	2.3	85	0.00
90	C	Benzo(a)pyrene	40.000	38.765	3.1	85	0.00
91		Dibenzo(a,h)anthracene	40.000	40.162	-0.4	89	0.00
92		Benzo(g,h,i)perylene	40.000	39.740	0.6	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064053.D
Acq On : 5 Mar 2025 15:10
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ICVBG030525

Quant Time: Mar 05 15:42:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA_G Calibration Date/Time: 04/01/2025 11:38

Lab File ID: BG064130.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.281	1.136		-11.3	
Benzaldehyde	1.013	0.896		-11.6	
Phenol-d6	1.742	1.624		-6.8	
Phenol	1.784	1.651		-7.5	20.0
bis(2-Chloroethyl)ether	1.399	1.231		-12.0	
2-Chlorophenol	1.376	1.297		-5.7	
2-Methylphenol	1.184	1.136		-4.1	
2,2-oxybis(1-Chloropropane)	3.145	2.751		-12.5	
Acetophenone	0.548	0.512		-6.6	
3+4-Methylphenols	1.630	1.557		-4.5	
n-Nitroso-di-n-propylamine	1.223	1.139	0.050	-6.9	
Nitrobenzene-d5	0.362	0.374		3.3	
Hexachloroethane	0.542	0.539		-0.6	
Nitrobenzene	0.374	0.372		-0.5	
Isophorone	0.724	0.665		-8.1	
2-Nitrophenol	0.112	0.137		22.3	20.0
2,4-Dimethylphenol	0.217	0.214		-1.4	
bis(2-Chloroethoxy)methane	0.439	0.403		-8.2	
2,4-Dichlorophenol	0.274	0.284		3.7	20.0
Naphthalene	1.078	1.053		-2.3	
4-Chloroaniline	0.394	0.403		2.3	
Hexachlorobutadiene	0.217	0.225		3.7	20.0
Caprolactam	0.105	0.104		-1.0	
4-Chloro-3-methylphenol	0.359	0.379		5.6	20.0
2-Methylnaphthalene	0.761	0.785		3.2	
Hexachlorocyclopentadiene	0.161	0.197	0.050	22.4	
2,4,6-Trichlorophenol	0.337	0.344		2.1	20.0
2-Fluorobiphenyl	1.318	1.245		-5.5	
2,4,5-Trichlorophenol	0.374	0.383		2.4	
1,1-Biphenyl	1.511	1.476		-2.3	
2-Chloronaphthalene	1.102	1.056		-4.2	
2-Nitroaniline	0.318	0.373		17.3	
Dimethylphthalate	1.476	1.392		-5.7	
Acenaphthylene	1.743	1.682		-3.5	
2,6-Dinitrotoluene	0.261	0.299		14.6	
3-Nitroaniline	0.285	0.298		4.6	
Acenaphthene	1.170	1.098		-6.2	20.0
2,4-Dinitrophenol	0.102	0.115	0.050	12.7	
4-Nitrophenol	0.239	0.246	0.050	2.9	

Form VII SV-1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA_G Calibration Date/Time: 04/01/2025 11:38

Lab File ID: BG064130.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.895	1.798		-5.1	
2,4-Dinitrotoluene	0.357	0.410		14.8	
Diethylphthalate	1.603	1.511		-5.7	
4-Chlorophenyl-phenylether	0.733	0.710		-3.1	
Fluorene	1.476	1.431		-3.0	
4-Nitroaniline	0.308	0.323		4.9	
4,6-Dinitro-2-methylphenol	0.076	0.092		21.1	
n-Nitrosodiphenylamine	0.566	0.565		-0.2	20.0
2,4,6-Tribromophenol	0.222	0.244		9.9	
4-Bromophenyl-phenylether	0.205	0.215		4.9	
Hexachlorobenzene	0.229	0.226		-1.3	
Atrazine	0.167	0.146		-12.6	
Pentachlorophenol	0.142	0.151		6.3	20.0
Phenanthrene	1.067	1.025		-3.9	
Anthracene	1.061	1.054		-0.7	
Carbazole	0.990	0.950		-4.0	
Di-n-butylphthalate	1.166	1.160		-0.5	
Fluoranthene	1.286	1.207		-6.1	20.0
Pyrene	1.289	1.276		-1.0	
Terphenyl-d14	0.989	0.963		-2.6	
Butylbenzylphthalate	0.423	0.499		18.0	
3,3-Dichlorobenzidine	0.415	0.419		1.0	
Benzo(a)anthracene	1.281	1.268		-1.0	
Chrysene	1.278	1.211		-5.2	
Bis(2-ethylhexyl)phthalate	0.693	0.758		9.4	
Di-n-octyl phthalate	1.195	1.288		7.8	20.0
Benzo(b)fluoranthene	1.209	1.178		-2.6	
Benzo(k)fluoranthene	1.213	1.168		-3.7	
Benzo(a)pyrene	1.077	1.032		-4.2	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.326		-0.9	
Dibenzo(a,h)anthracene	1.109	1.088		-1.9	
Benzo(g,h,i)perylene	1.139	1.108		-2.7	
1,2,4,5-Tetrachlorobenzene	0.571	0.548		-4.0	
1,4-Dioxane	0.580	0.468		-19.3	20.0
2,3,4,6-Tetrachlorophenol	0.365	0.377		3.3	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	35250	20.000	ng		# 0.00
21) Naphthalene-d8	10.649	136	155899	20.000	ng		0.00
39) Acenaphthene-d10	14.485	164	116262	20.000	ng		0.00
64) Phenanthrene-d10	17.223	188	250435	20.000	ng		0.00
76) Chrysene-d12	21.459	240	243510	20.000	ng		0.00
86) Perylene-d12	24.468	264	261203	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.443	112	160201	70.963	ng		0.00
7) Phenol-d6	7.023	99	229050	74.582	ng		0.00
23) Nitrobenzene-d5	9.009	82	233352	82.717	ng		0.00
42) 2,4,6-Tribromophenol	15.972	330	113362	87.719	ng		0.00
45) 2-Fluorobiphenyl	13.110	172	579214	75.620	ng		0.00
79) Terphenyl-d14	19.844	244	938242	77.907	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.369	88	32975	32.230	ng		98
3) Pyridine	3.757	79	93009	37.380	ng		98
4) n-Nitrosodimethylamine	3.668	42	68172	38.347	ng		97
6) Aniline	7.188	93	107464	35.660	ng		99
8) 2-Chlorophenol	7.423	128	91416	37.703	ng		96
9) Benzaldehyde	7.000	77	63201	35.384	ng		96
10) Phenol	7.053	94	116391	37.016	ng		95
11) bis(2-Chloroethyl)ether	7.282	93	86813	35.217	ng		94
12) 1,3-Dichlorobenzene	7.752	146	96292	36.166	ng		95
13) 1,4-Dichlorobenzene	7.893	146	97302	35.654	ng		96
14) 1,2-Dichlorobenzene	8.210	146	94732	35.998	ng		96
15) Benzyl Alcohol	8.093	79	93063	39.214	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.392	45	193956	34.992	ng		98
17) 2-Methylphenol	8.298	107	80092	38.379	ng		97
18) Hexachloroethane	8.939	117	37992	39.789	ng		97
19) n-Nitroso-di-n-propyla...	8.663	70	80268	37.242	ng		96
20) 3+4-Methylphenols	8.621	107	109774	38.209	ng		96
22) Acetophenone	8.674	105	159617	37.342	ng		98
24) Nitrobenzene	9.050	77	115984	39.782	ng		97
25) Isophorone	9.573	82	207273	36.708	ng		97
26) 2-Nitrophenol	9.761	139	42835	43.512	ng	#	94
27) 2,4-Dimethylphenol	9.820	122	66625	39.359	ng		95
28) bis(2-Chloroethoxy)met...	10.061	93	125512	36.663	ng		98
29) 2,4-Dichlorophenol	10.296	162	88528	41.418	ng		98
30) 1,2,4-Trichlorobenzene	10.513	180	99331	38.496	ng		97
31) Naphthalene	10.696	128	328170	39.038	ng		98
32) Benzoic acid	9.955	122	63312m	42.046	ng		
33) 4-Chloroaniline	10.801	127	125776	40.936	ng		98
34) Hexachlorobutadiene	10.989	225	70156	41.481	ng		96
35) Caprolactam	11.565	113	32340	39.482	ng		95
36) 4-Chloro-3-methylphenol	11.929	107	118211	42.191	ng		99
37) 2-Methylnaphthalene	12.305	142	244694	41.231	ng		97
38) 1-Methylnaphthalene	12.529	142	237894	40.916	ng		99
40) 1,2,4,5-Tetrachloroben...	12.676	216	127341	38.365	ng		100
41) Hexachlorocyclopentadiene	12.658	237	45737	48.959	ng		96
43) 2,4,6-Trichlorophenol	12.911	196	80072	40.932	ng		91

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.981	196	89010	40.950	ng		98
46) 1,1'-Biphenyl	13.322	154	343299	39.084	ng		98
47) 2-Chloronaphthalene	13.357	162	245574	38.334	ng		98
48) 2-Nitroaniline	13.557	65	86671	41.926	ng		93
49) Acenaphthylene	14.203	152	391003	38.588	ng		99
50) Dimethylphthalate	13.945	163	323722	37.720	ng		99
51) 2,6-Dinitrotoluene	14.056	165	69536	40.502	ng		96
52) Acenaphthene	14.550	154	255324m	37.546	ng		
53) 3-Nitroaniline	14.385	138	69287	41.772	ng		98
54) 2,4-Dinitrophenol	14.585	184	26830	41.200	ng		91
55) Dibenzofuran	14.885	168	418054	37.949	ng		99
56) 4-Nitrophenol	14.685	139	57108	41.052	ng		94
57) 2,4-Dinitrotoluene	14.844	165	95339	40.317	ng	#	97
58) Fluorene	15.531	166	332741	38.780	ng		96
59) 2,3,4,6-Tetrachlorophenol	15.108	232	87645	41.360	ng		94
60) Diethylphthalate	15.314	149	351236	37.699	ng		98
61) 4-Chlorophenyl-phenyle...	15.531	204	165044	38.708	ng		94
62) 4-Nitroaniline	15.543	138	75185	41.984	ng		99
63) Azobenzene	15.819	77	361599	36.371	ng		99
65) 4,6-Dinitro-2-methylph...	15.602	198	46107	43.534	ng		92
66) n-Nitrosodiphenylamine	15.743	169	282830	39.898	ng		98
67) 4-Bromophenyl-phenylether	16.424	248	107461	41.896	ng		98
68) Hexachlorobenzene	16.536	284	113017	39.358	ng		99
69) Atrazine	16.688	200	72915	34.958	ng		96
70) Pentachlorophenol	16.877	266	75747	42.485	ng		95
71) Phenanthrene	17.264	178	513553	38.446	ng		100
72) Anthracene	17.358	178	527940	39.748	ng		99
73) Carbazole	17.623	167	475613	38.352	ng		99
74) Di-n-butylphthalate	18.198	149	580832	39.790	ng		100
75) Fluoranthene	19.280	202	604655	37.548	ng		96
77) Benzidine	19.462	184	185855	55.118	ng		99
78) Pyrene	19.638	202	621219	39.575	ng		99
80) Butylbenzylphthalate	20.537	149	242915	41.752	ng		99
81) Benzo(a)anthracene	21.436	228	617605	39.594	ng		99
82) 3,3'-Dichlorobenzidine	21.359	252	204173	40.444	ng		97
83) Chrysene	21.500	228	589987	37.923	ng		99
84) Bis(2-ethylhexyl)phtha...	21.371	149	369341	43.782	ng		100
85) Di-n-octyl phthalate	22.517	149	627171	43.102	ng		99
87) Indeno(1,2,3-cd)pyrene	27.864	276	692855	39.645	ng		100
88) Benzo(b)fluoranthene	23.522	252	615287	38.965	ng		98
89) Benzo(k)fluoranthene	23.580	252	610202	38.520	ng		100
90) Benzo(a)pyrene	24.327	252	539179	38.340	ng		98
91) Dibenzo(a,h)anthracene	27.928	278	568575	39.243	ng		97
92) Benzo(g,h,i)perylene	28.921	276	578929	38.918	ng		96

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

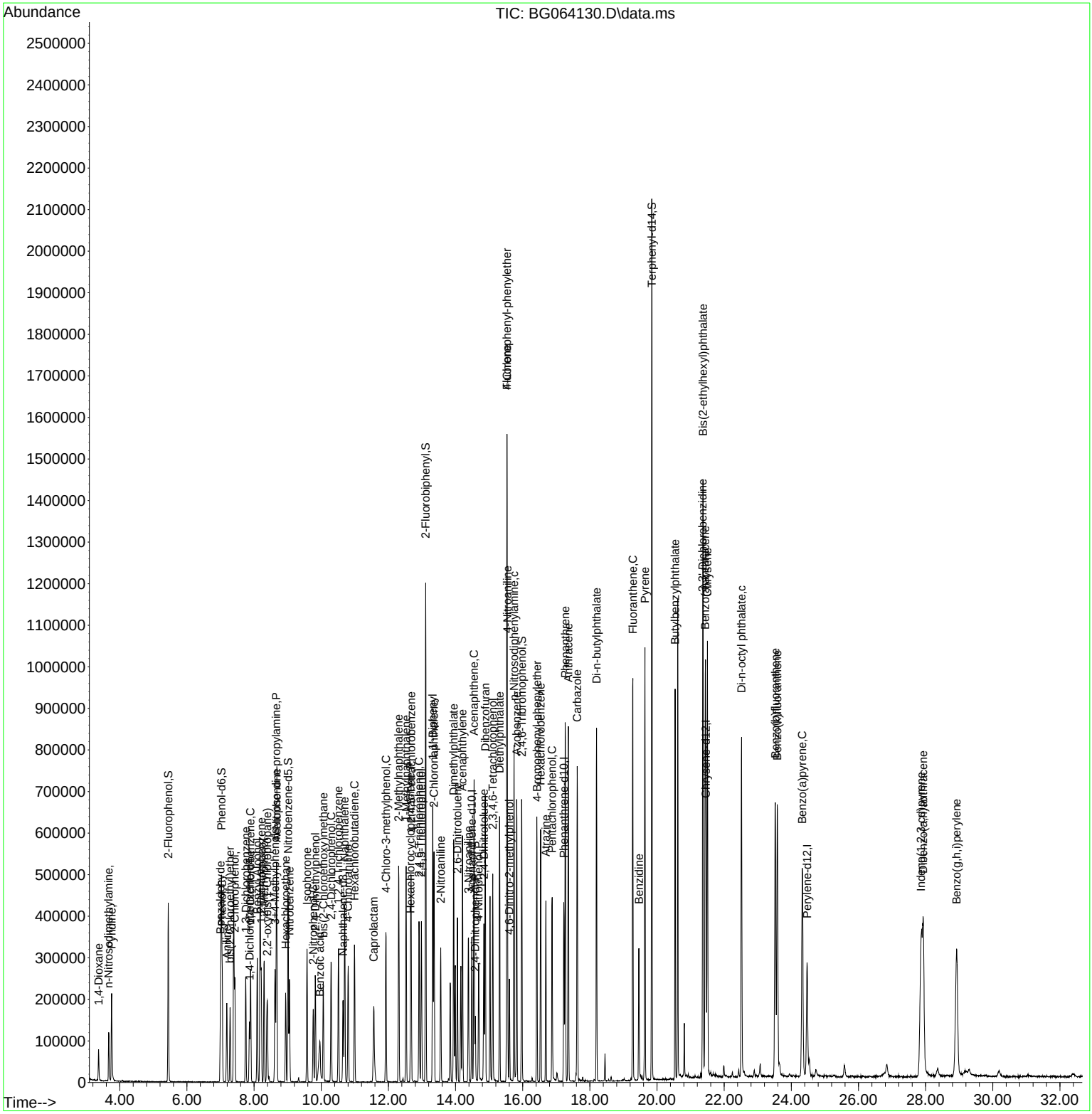
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

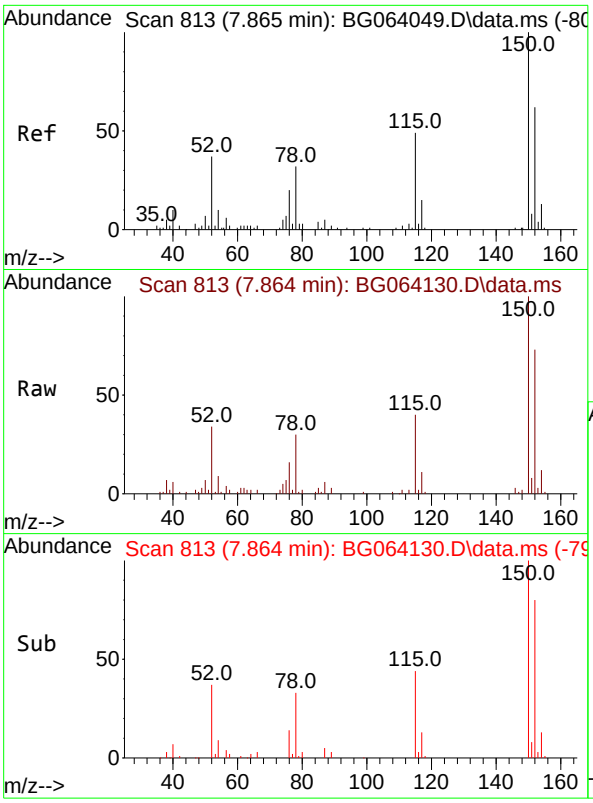
Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

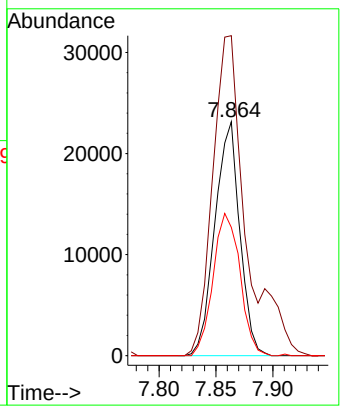




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:152 Resp: 3525

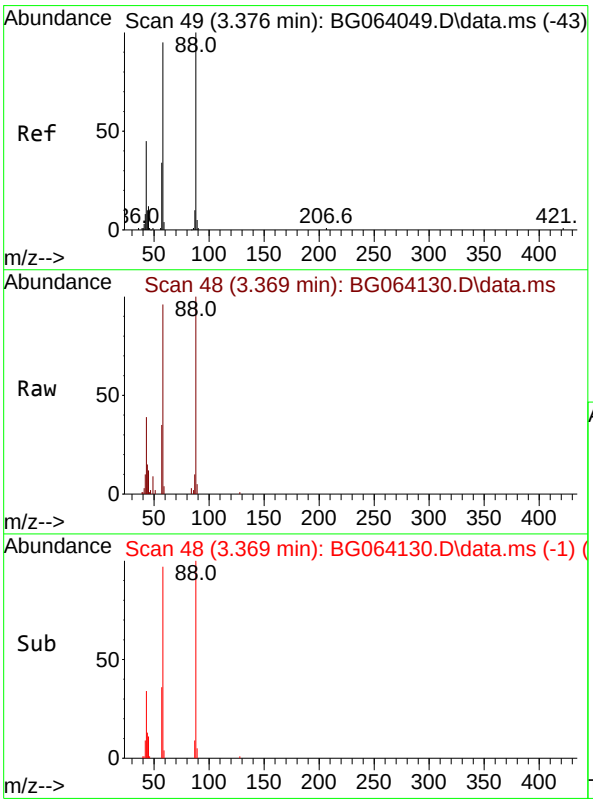
Ion	Ratio	Lower	Upper
152	100		
150	136.8	129.2	193.8
115	54.9	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

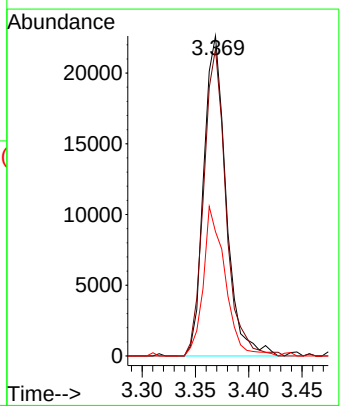
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

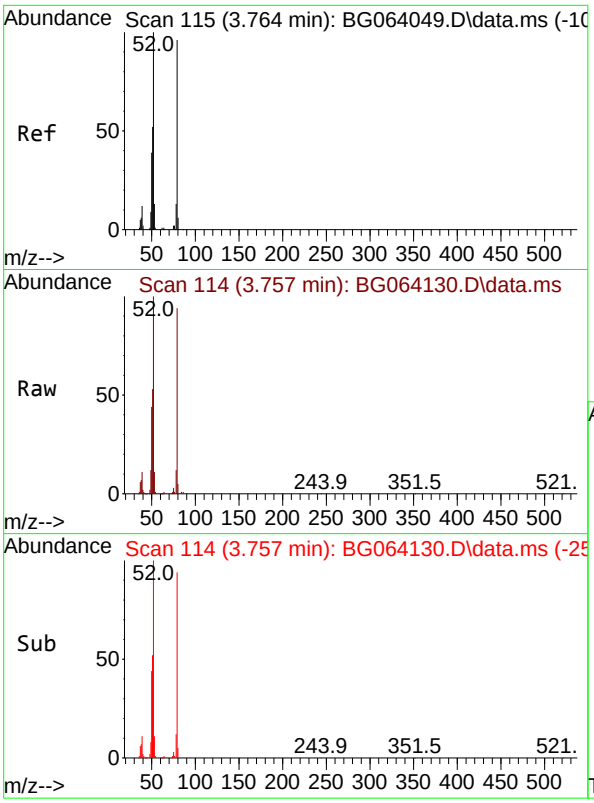


#2
1,4-Dioxane
Concen: 32.230 ng
RT: 3.369 min Scan# 48
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 88 Resp: 32975

Ion	Ratio	Lower	Upper
88	100		
58	95.7	74.6	111.8
43	45.4	35.5	53.3

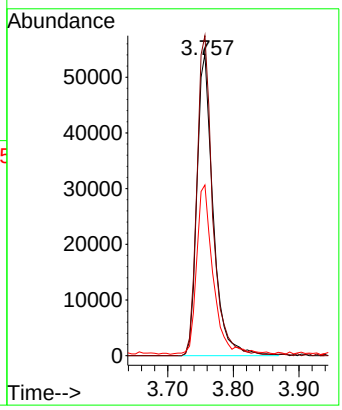




#3
Pyridine
Concen: 37.380 ng
RT: 3.757 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 79 Resp: 9300

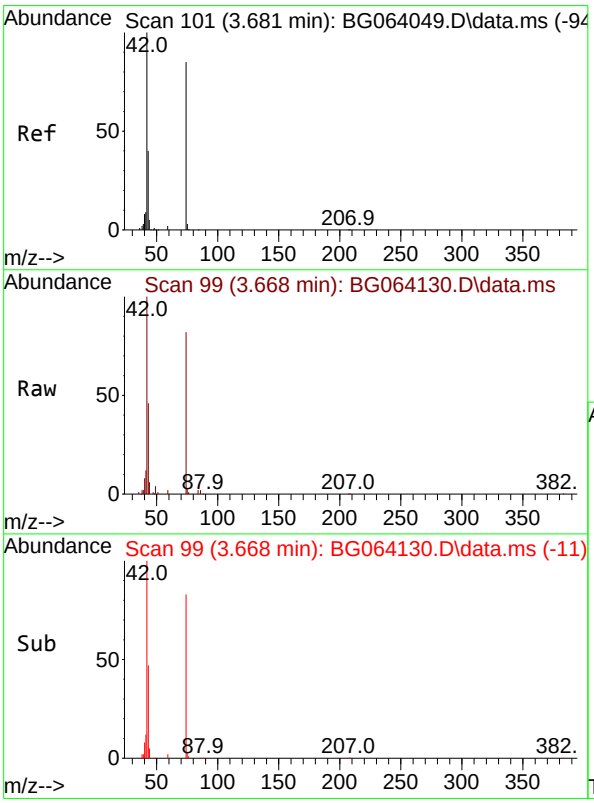
Ion	Ratio	Lower	Upper
79	100		
52	106.0	83.0	124.6
51	56.5	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

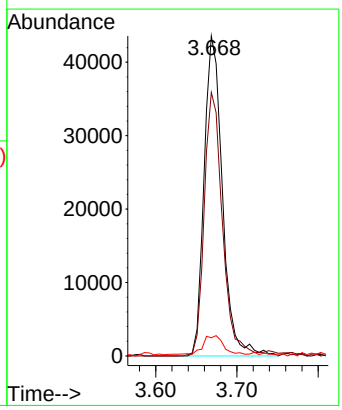
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

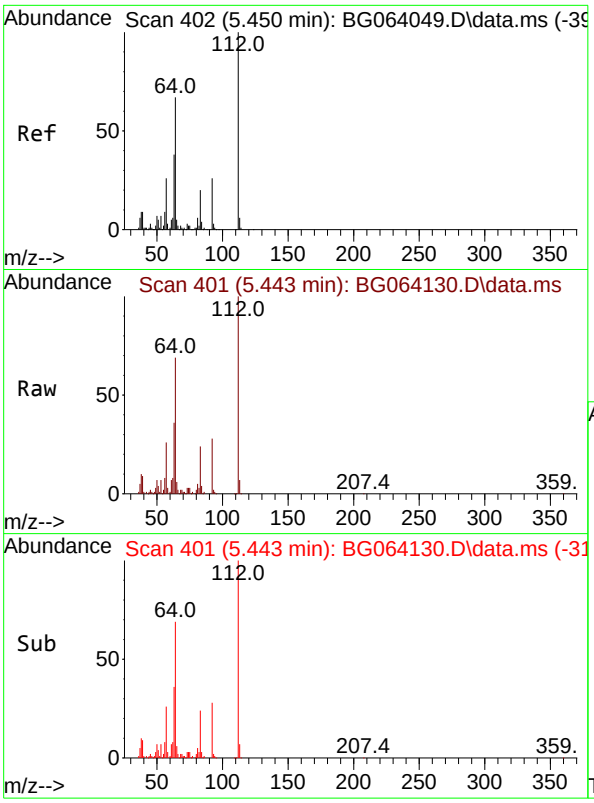


#4
n-Nitrosodimethylamine
Concen: 38.347 ng
RT: 3.668 min Scan# 99
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 42 Resp: 68172

Ion	Ratio	Lower	Upper
42	100		
74	82.4	68.0	102.0
44	5.7	4.9	7.3





#5
2-Fluorophenol
Concen: 70.963 ng
RT: 5.443 min Scan# 4(
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

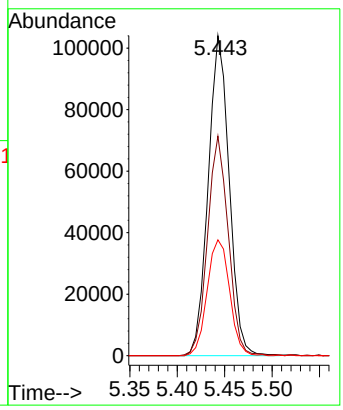
Tgt Ion:112 Resp: 16020

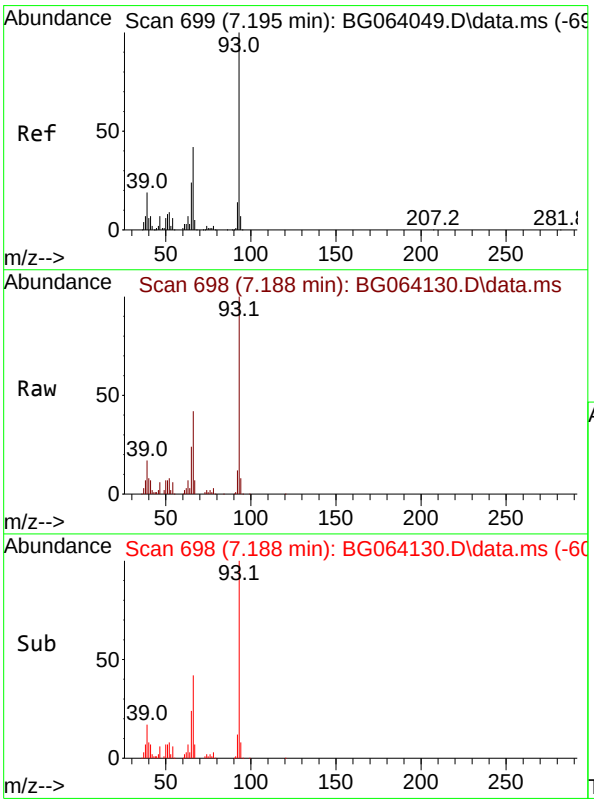
Ion	Ratio	Lower	Upper
112	100		
64	68.6	53.7	80.5
63	36.2	30.2	45.4

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

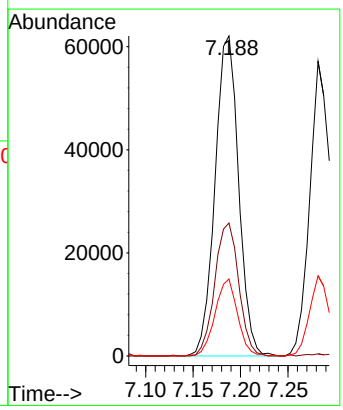


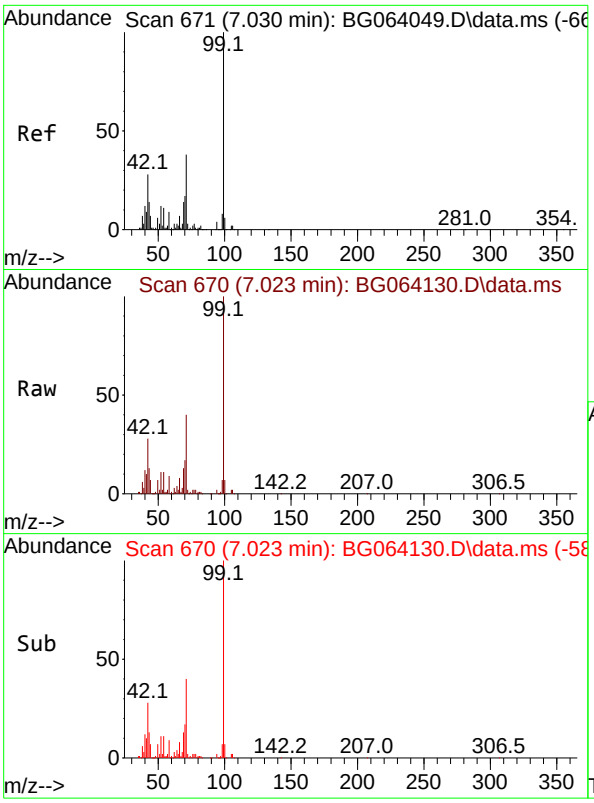


#6
Aniline
Concen: 35.660 ng
RT: 7.188 min Scan# 698
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 93 Resp: 107464

Ion	Ratio	Lower	Upper
93	100		
66	41.6	33.7	50.5
65	24.0	19.1	28.7

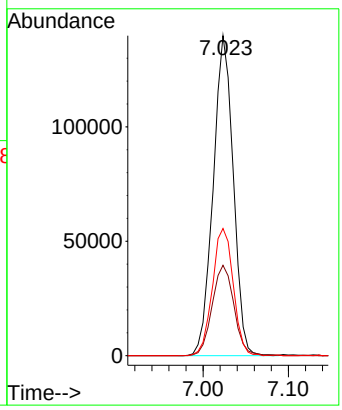




#7
Phenol-d6
Concen: 74.582 ng
RT: 7.023 min Scan# 6
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 99 Resp: 22905

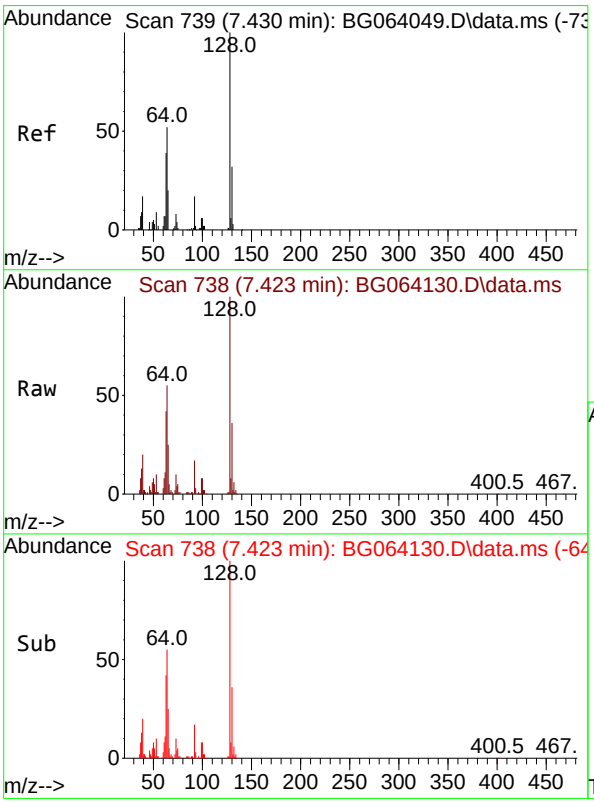
Ion	Ratio	Lower	Upper
99	100		
42	28.3	22.7	34.1
71	39.8	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

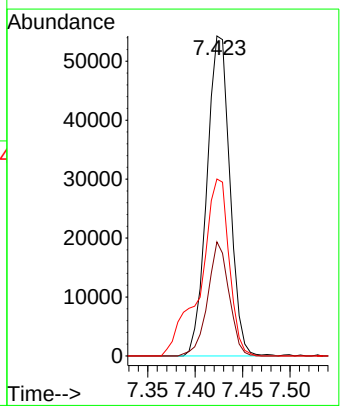
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

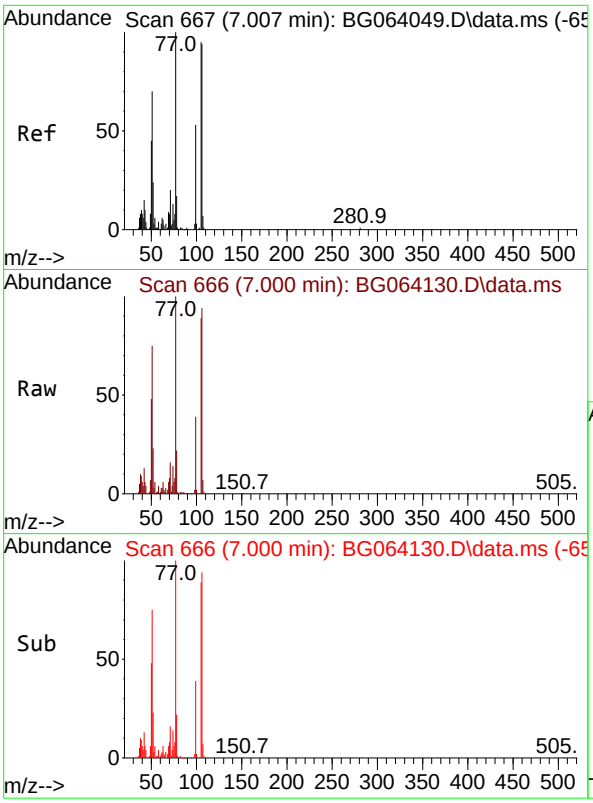


#8
2-Chlorophenol
Concen: 37.703 ng
RT: 7.423 min Scan# 738
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:128 Resp: 91416

Ion	Ratio	Lower	Upper
128	100		
130	35.6	12.3	52.3
64	55.3	37.0	77.0

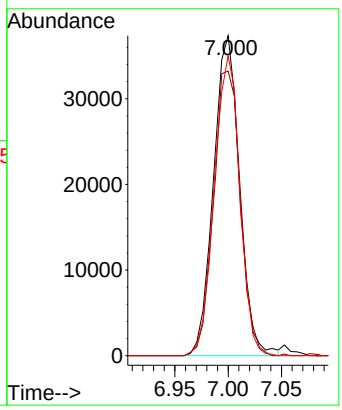




#9
Benzaldehyde
Concen: 35.384 ng
RT: 7.000 min Scan# 6
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 77 Resp: 6320

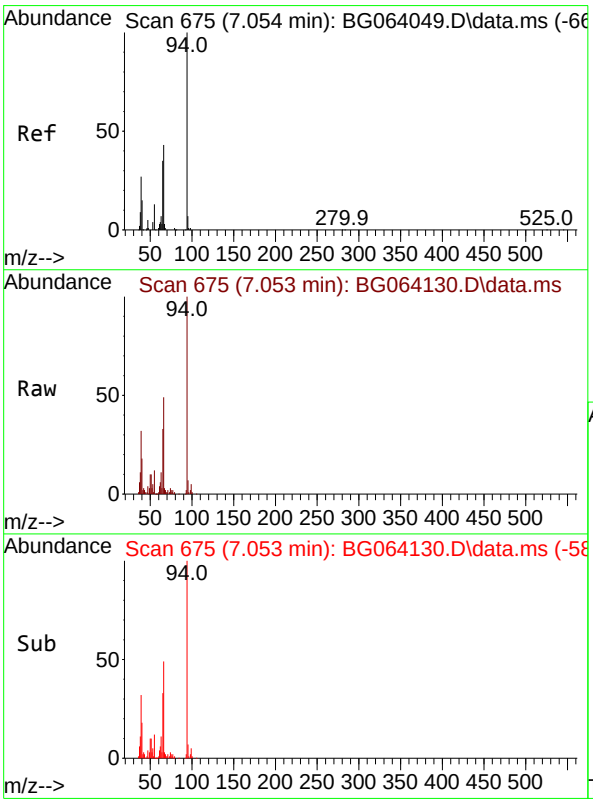
Ion	Ratio	Lower	Upper
77	100		
105	89.0	75.5	115.5
106	93.8	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

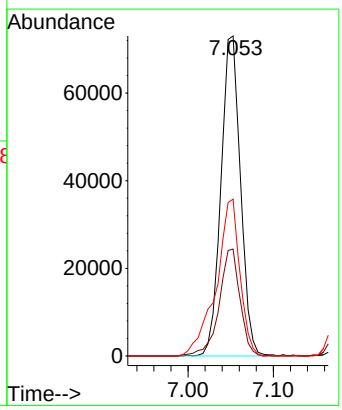
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

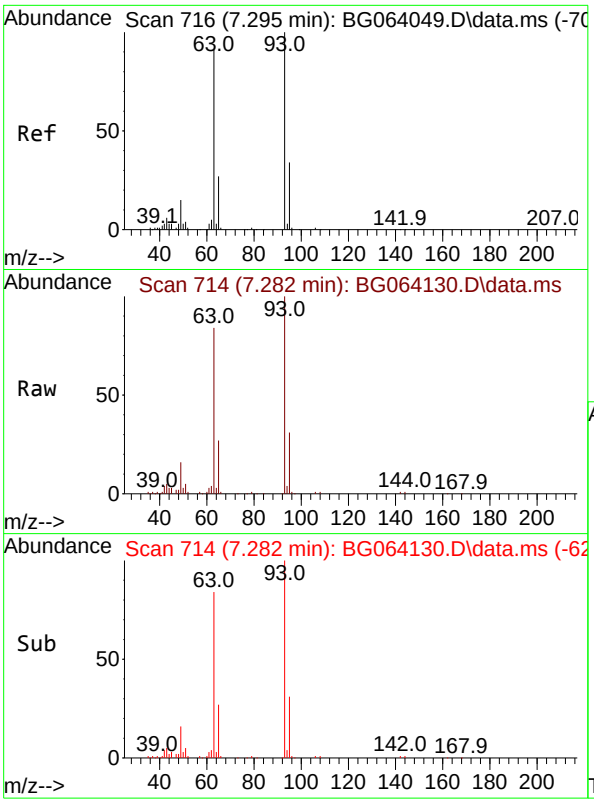


#10
Phenol
Concen: 37.016 ng
RT: 7.053 min Scan# 675
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 94 Resp: 116391

Ion	Ratio	Lower	Upper
94	100		
65	33.4	15.2	55.2
66	49.0	25.1	65.1

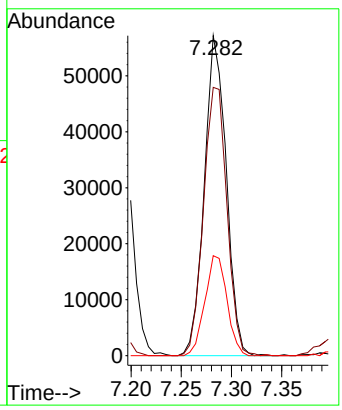




#11
bis(2-Chloroethyl)ether
Concen: 35.217 ng
RT: 7.282 min Scan# 7
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 93 Resp: 8681

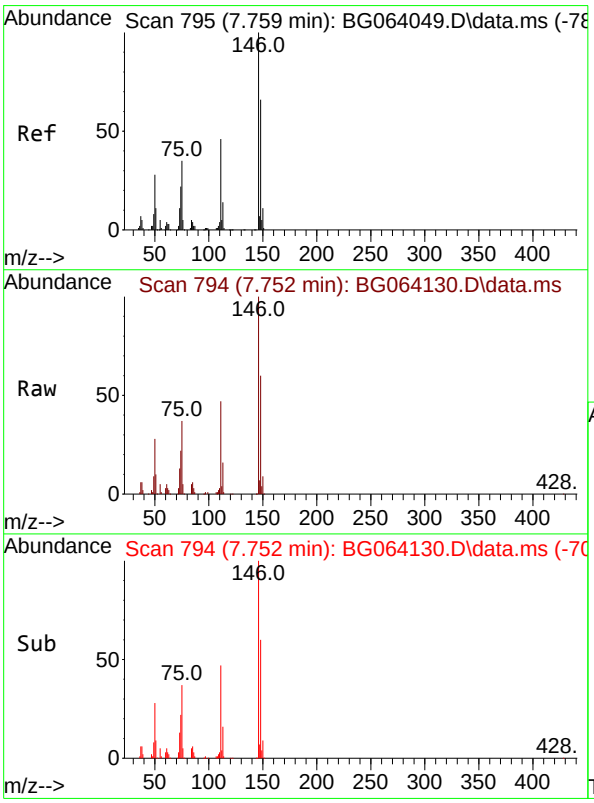
Ion	Ratio	Lower	Upper
93	100		
63	83.9	70.0	110.0
95	31.2	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

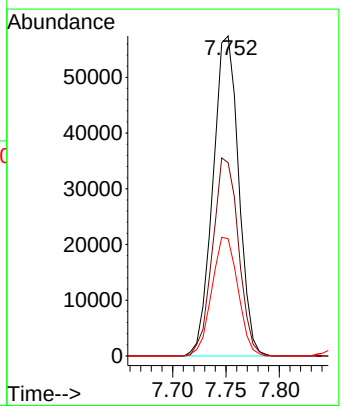
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

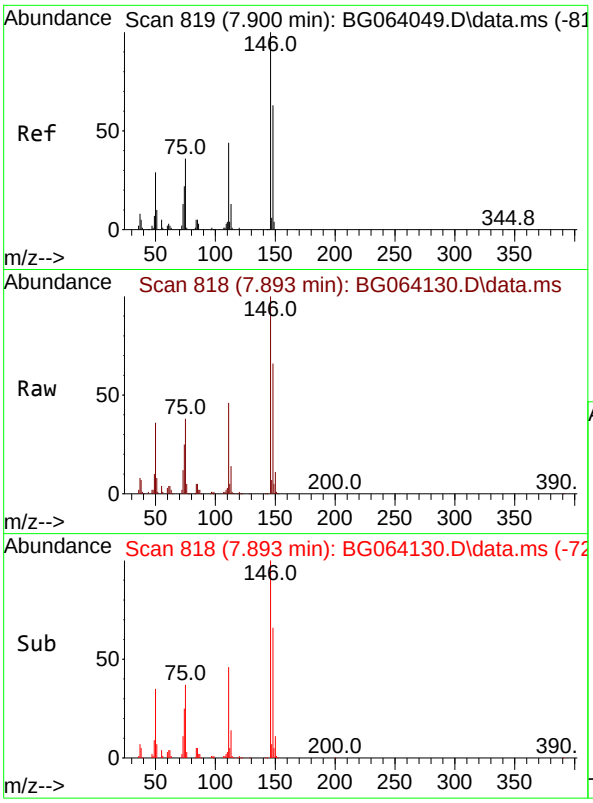


#12
1,3-Dichlorobenzene
Concen: 36.166 ng
RT: 7.752 min Scan# 794
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:146 Resp: 96292

Ion	Ratio	Lower	Upper
146	100		
148	60.4	52.6	78.8
75	36.7	28.1	42.1

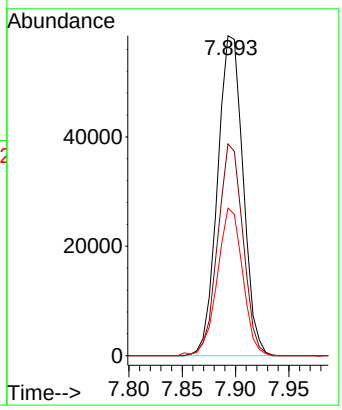




#13
1,4-Dichlorobenzene
Concen: 35.654 ng
RT: 7.893 min Scan# 81
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:146 Resp: 9730

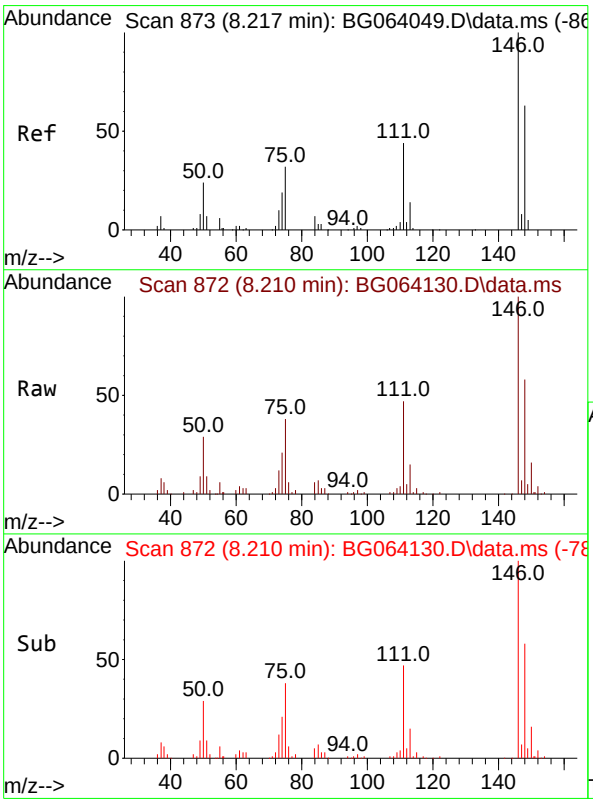
Ion	Ratio	Lower	Upper
146	100		
148	66.2	50.6	75.8
111	46.1	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

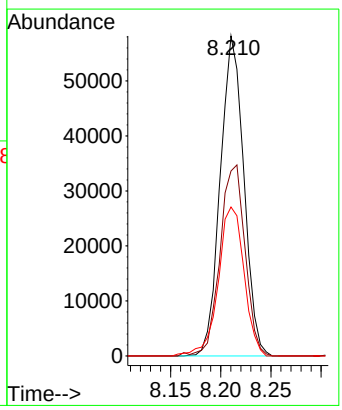
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

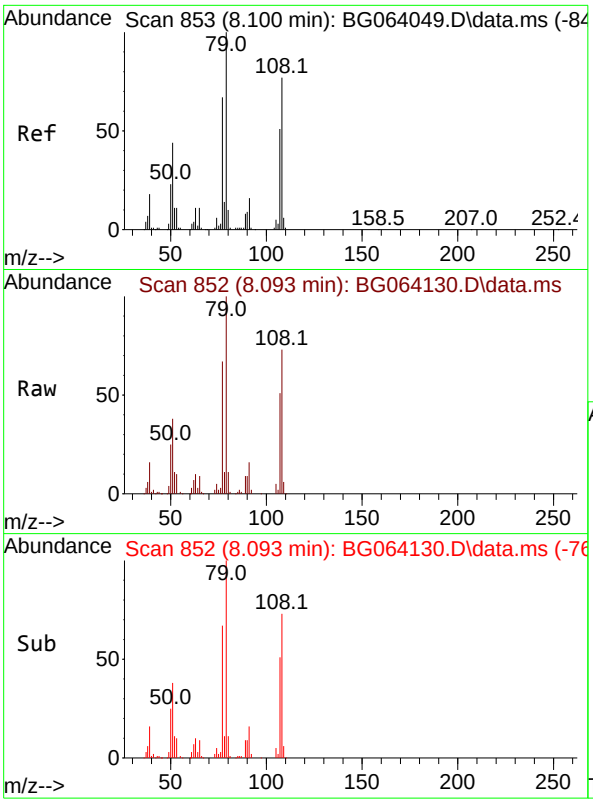


#14
1,2-Dichlorobenzene
Concen: 35.998 ng
RT: 8.210 min Scan# 872
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:146 Resp: 94732

Ion	Ratio	Lower	Upper
146	100		
148	57.8	50.2	75.2
111	46.6	36.4	54.6





#15
Benzyl Alcohol
Concen: 39.214 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

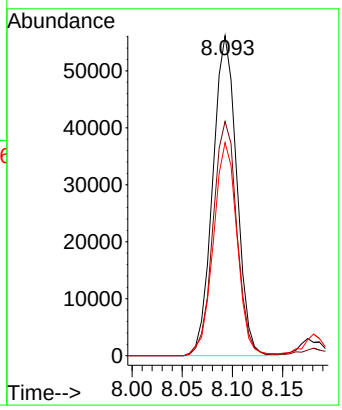
Tgt Ion: 79 Resp: 9306

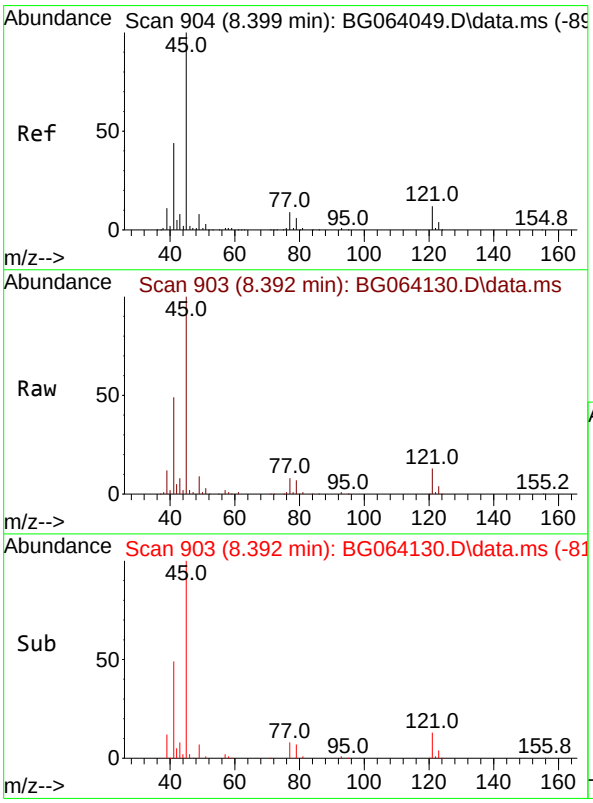
Ion	Ratio	Lower	Upper
79	100		
108	73.2	61.7	92.5
77	66.6	53.9	80.9

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

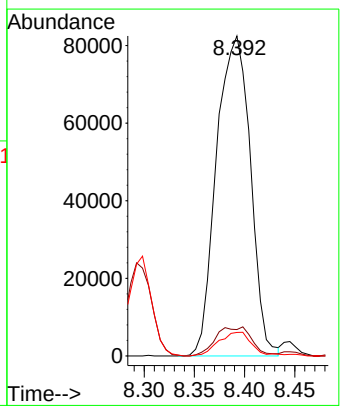


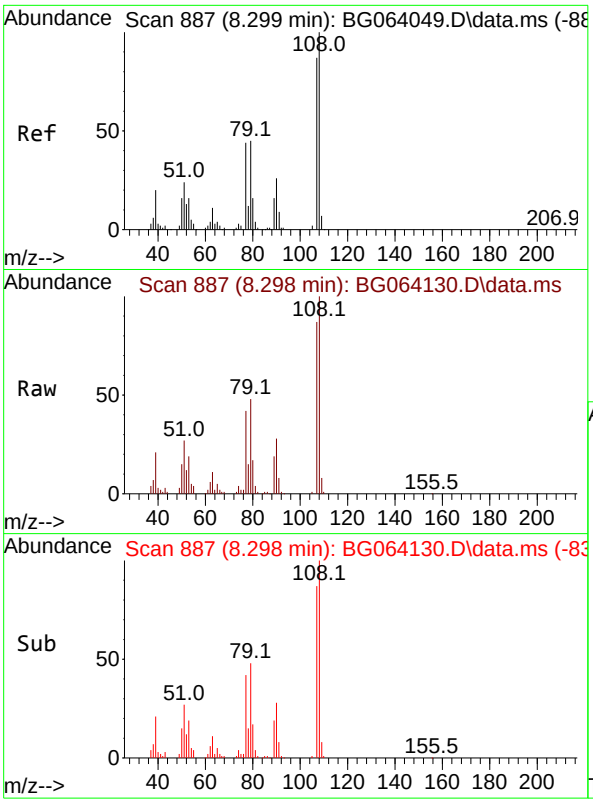


#16
2,2'-oxybis(1-Chloropropane)
Concen: 34.992 ng
RT: 8.392 min Scan# 903
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 45 Resp: 193956

Ion	Ratio	Lower	Upper
45	100		
77	8.3	0.0	29.0
79	7.4	0.0	26.6

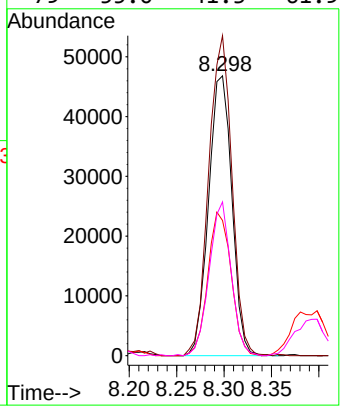




#17
2-Methylphenol
Concen: 38.379 ng
RT: 8.298 min Scan# 8
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:107 Resp: 8009

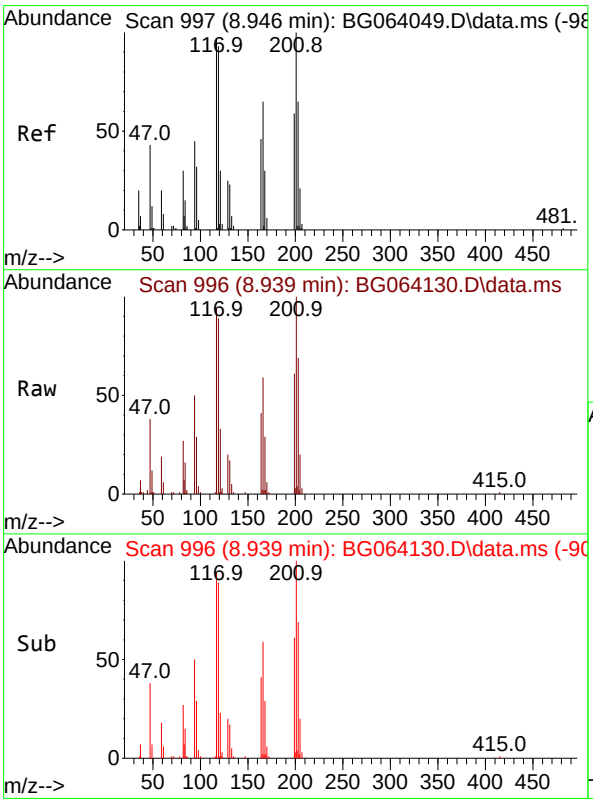
Ion	Ratio	Lower	Upper
107	100		
108	114.4	92.5	138.7
77	48.3	40.5	60.7
79	55.0	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

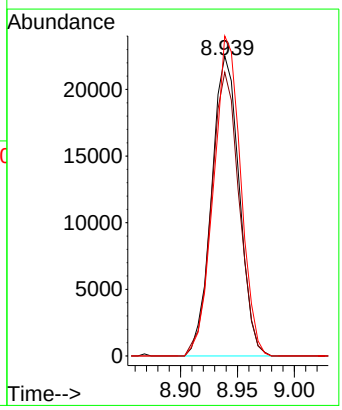
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

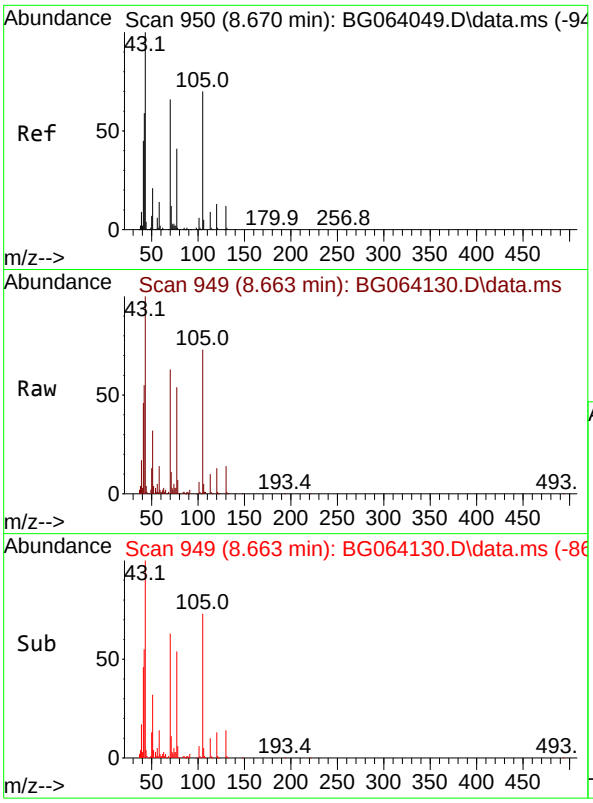


#18
Hexachloroethane
Concen: 39.789 ng
RT: 8.939 min Scan# 996
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:117 Resp: 37992

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.2	114.2
201	106.7	81.5	122.3

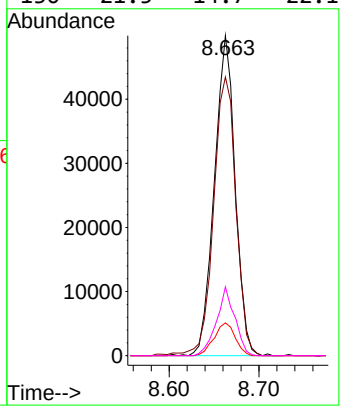




#19
n-Nitroso-di-n-propylamine
Concen: 37.242 ng
RT: 8.663 min Scan# 94
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

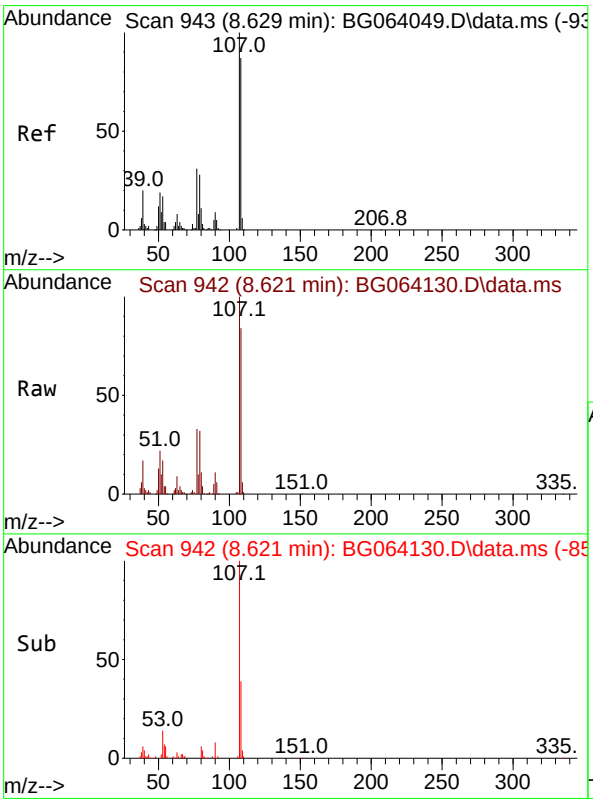
Tgt Ion: 70 Resp: 8026

Ion	Ratio	Lower	Upper
70	100		
42	87.1	72.1	108.1
101	10.2	7.2	10.8
130	21.5	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

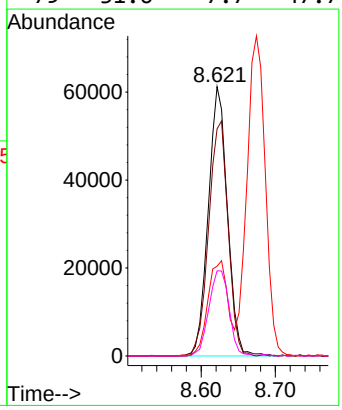
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

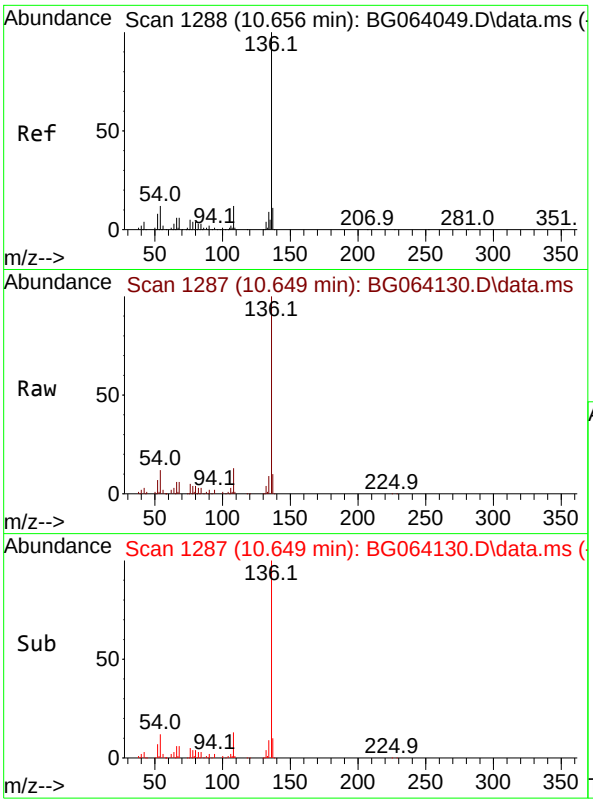


#20
3+4-Methylphenols
Concen: 38.209 ng
RT: 8.621 min Scan# 942
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:107 Resp: 109774

Ion	Ratio	Lower	Upper
107	100		
108	84.3	67.0	107.0
77	33.3	11.2	51.2
79	31.6	7.7	47.7

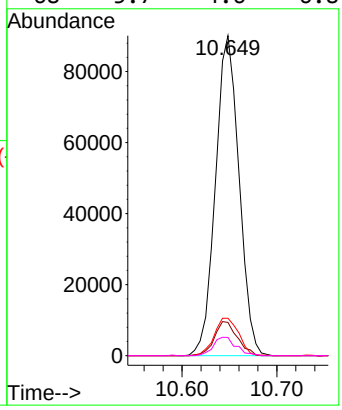




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1
Delta R.T. -0.008 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:136 Resp: 15589

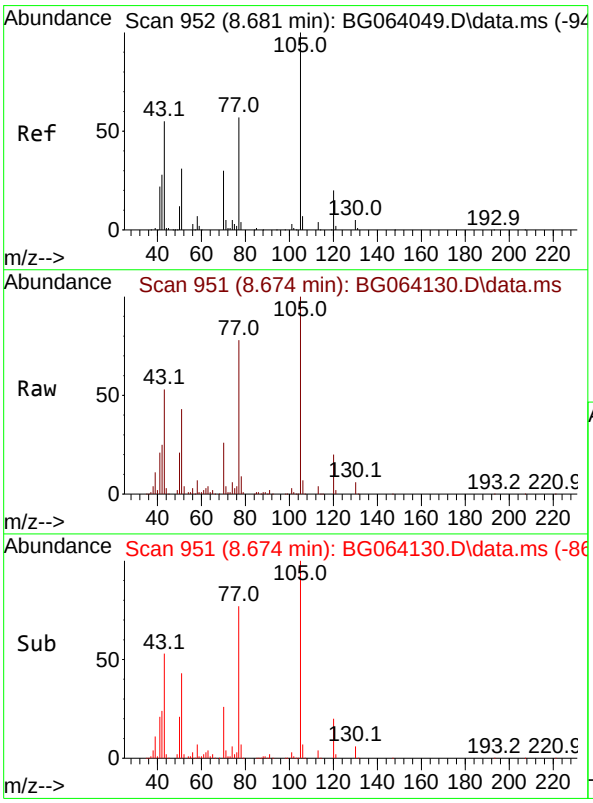
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.5	12.7
54	11.7	9.9	14.9
68	5.7	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

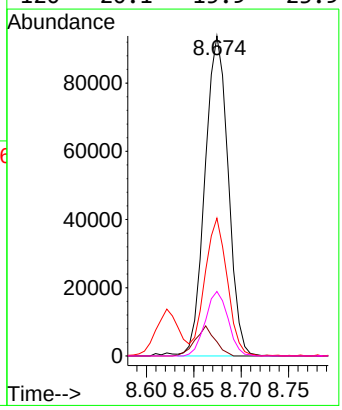
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

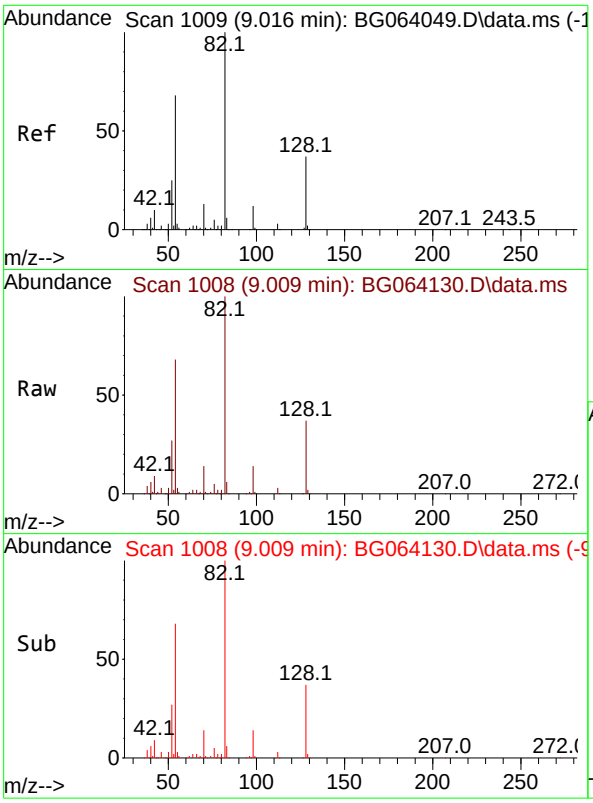


#22
Acetophenone
Concen: 37.342 ng
RT: 8.674 min Scan# 951
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:105 Resp: 159617

Ion	Ratio	Lower	Upper
105	100		
71	4.4	4.2	6.4
51	43.1	33.3	49.9
120	20.1	15.9	23.9

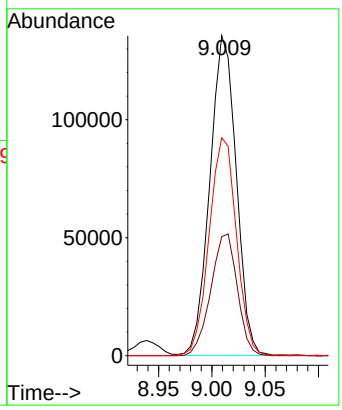




#23
Nitrobenzene-d5
Concen: 82.717 ng
RT: 9.009 min Scan# 1(
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 82 Resp: 23335

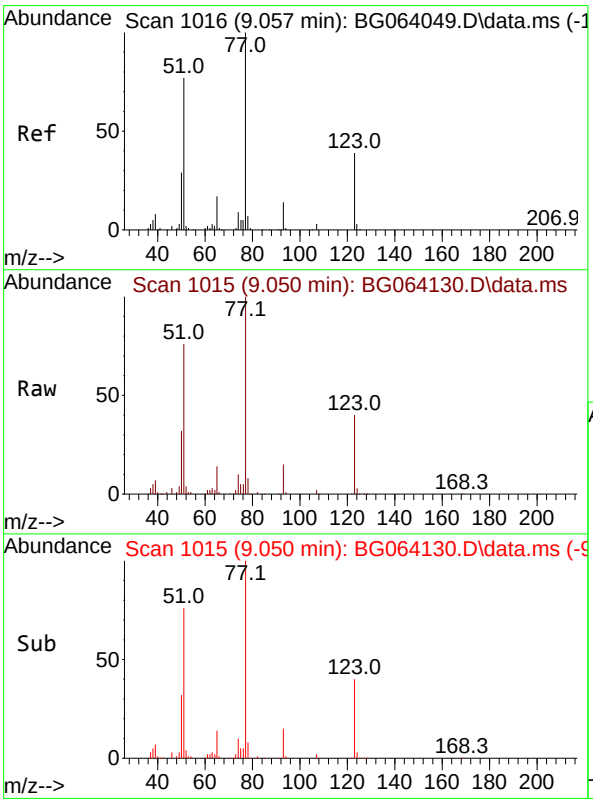
Ion	Ratio	Lower	Upper
82	100		
128	37.2	30.0	45.0
54	68.1	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

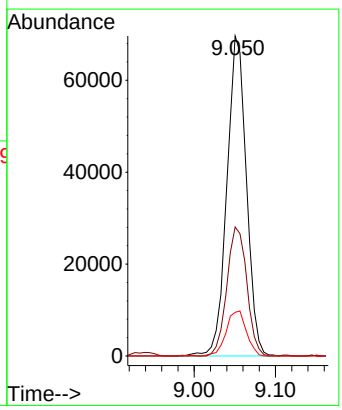
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

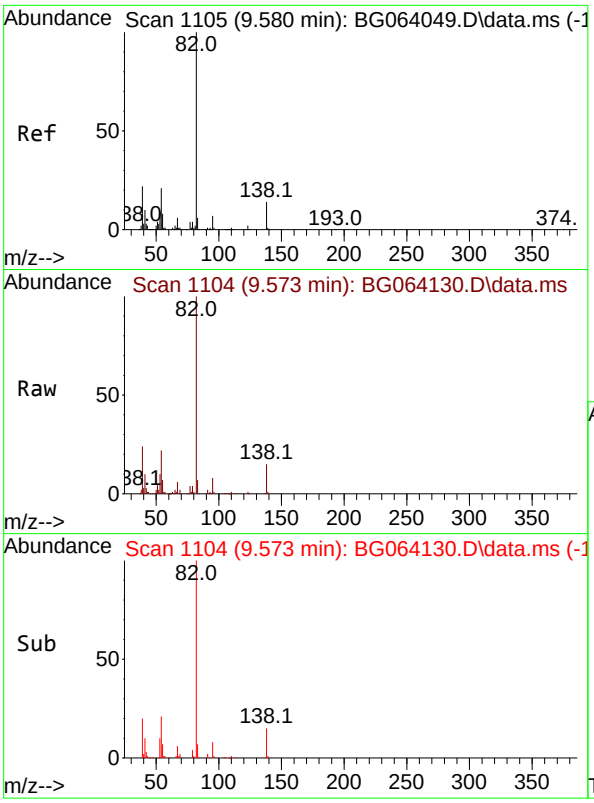


#24
Nitrobenzene
Concen: 39.782 ng
RT: 9.050 min Scan# 1015
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 77 Resp: 115984

Ion	Ratio	Lower	Upper
77	100		
123	40.3	31.4	47.2
65	13.6	13.4	20.0

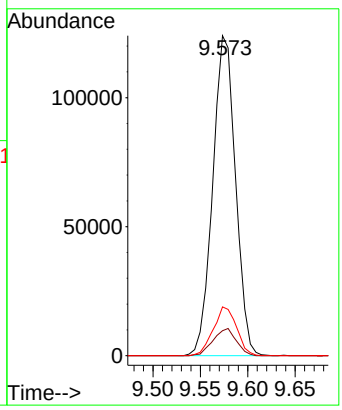




#25
Isophorone
Concen: 36.708 ng
RT: 9.573 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 82 Resp: 20727

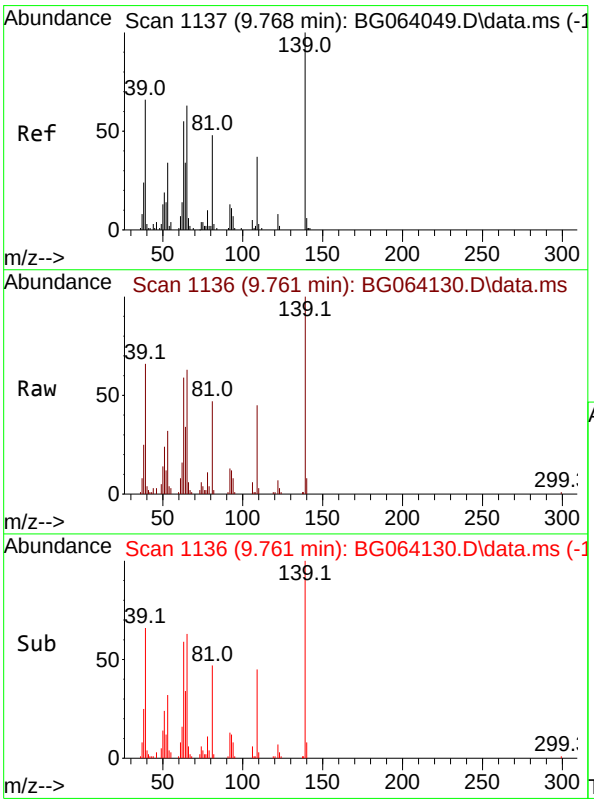
Ion	Ratio	Lower	Upper
82	100		
95	7.8	5.8	8.8
138	15.3	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

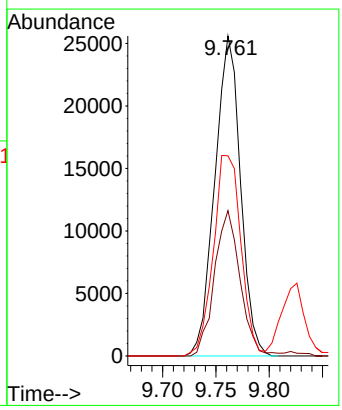
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

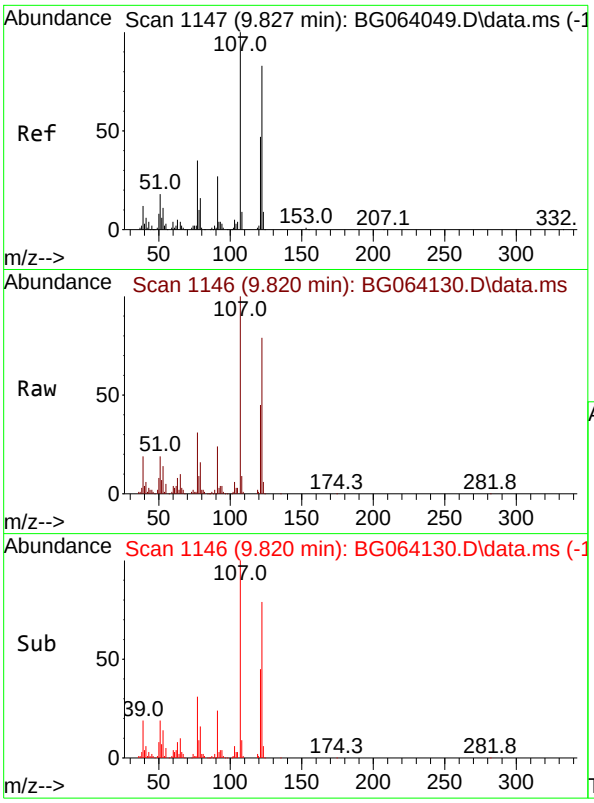


#26
2-Nitrophenol
Concen: 43.512 ng
RT: 9.761 min Scan# 1136
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:139 Resp: 42835

Ion	Ratio	Lower	Upper
139	100		
109	45.4	29.9	44.9#
65	62.6	50.6	76.0





#27
2,4-Dimethylphenol
Concen: 39.359 ng
RT: 9.820 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

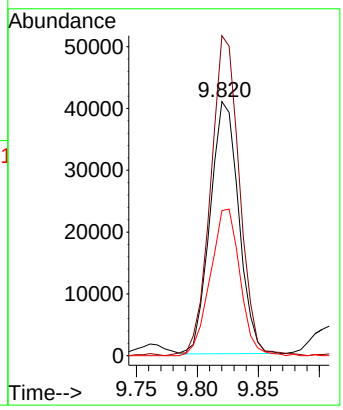
Tgt Ion:122 Resp: 6662

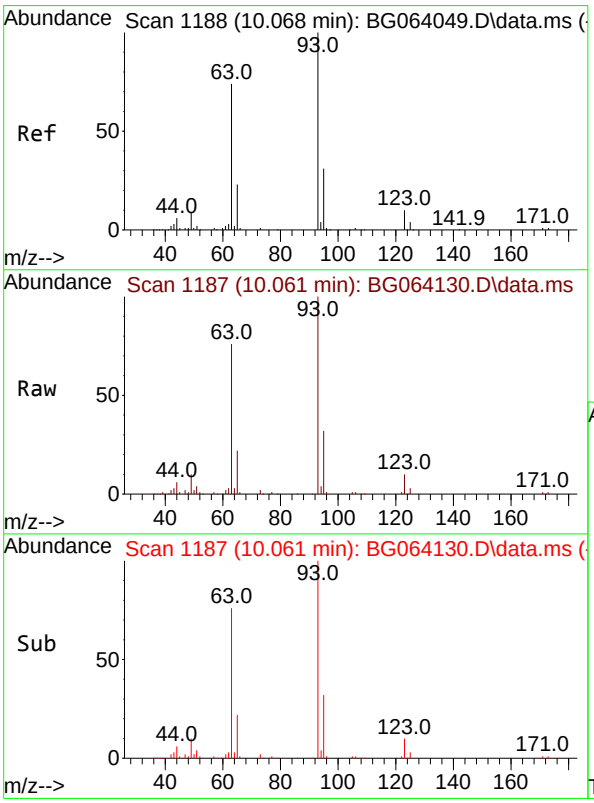
Ion	Ratio	Lower	Upper
122	100		
107	125.9	95.4	143.0
121	57.1	44.9	67.3

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

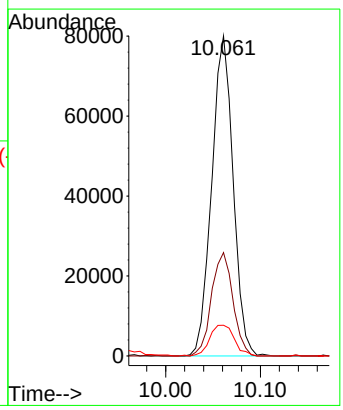


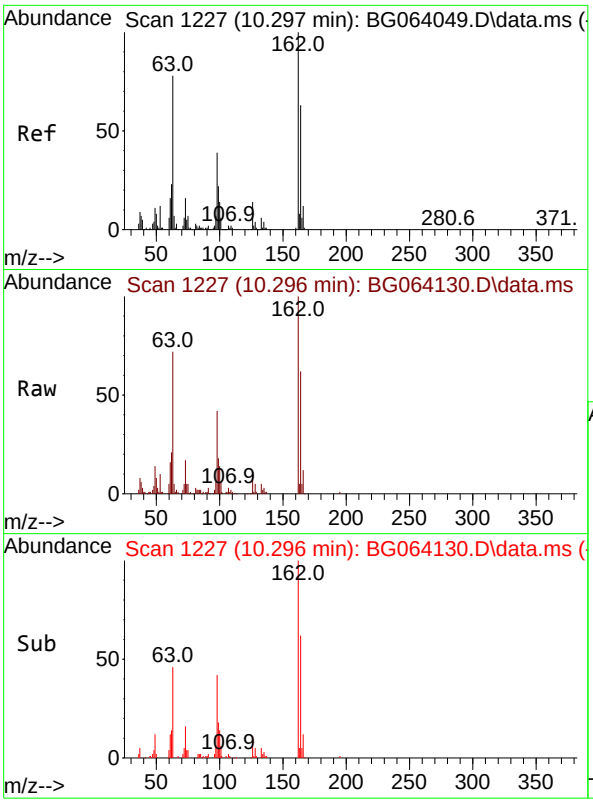


#28
bis(2-Chloroethoxy)methane
Concen: 36.663 ng
RT: 10.061 min Scan# 1187
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 93 Resp: 125512

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.0	37.4
123	9.6	7.6	11.4





#29
2,4-Dichlorophenol
Concen: 41.418 ng
RT: 10.296 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

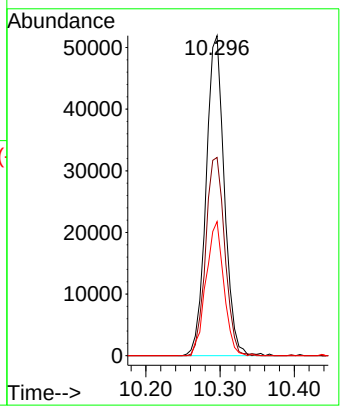
Tgt Ion:162 Resp: 8852

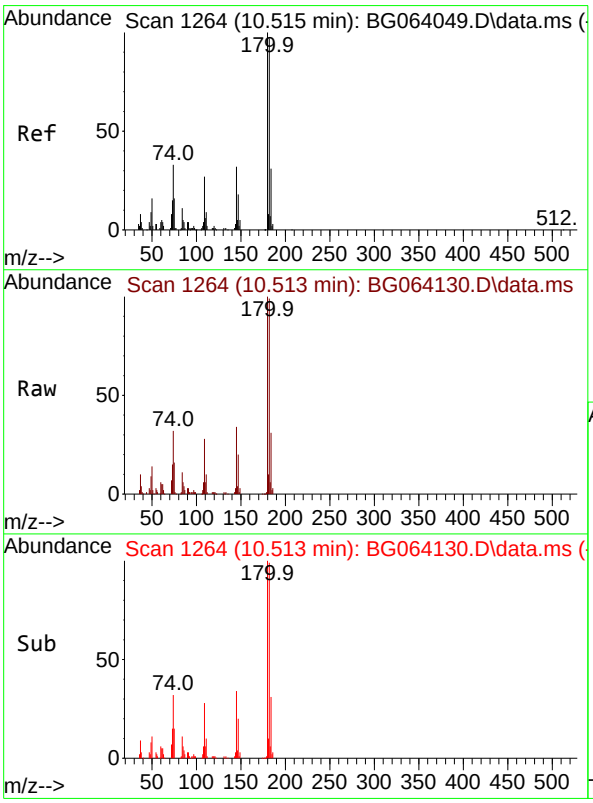
Ion	Ratio	Lower	Upper
162	100		
164	61.9	42.8	82.8
98	41.9	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

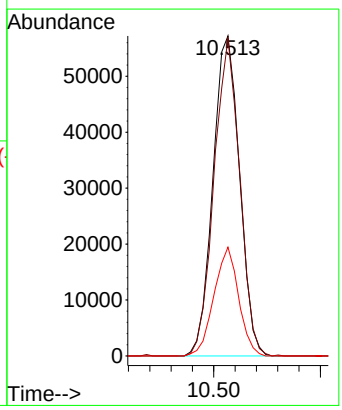


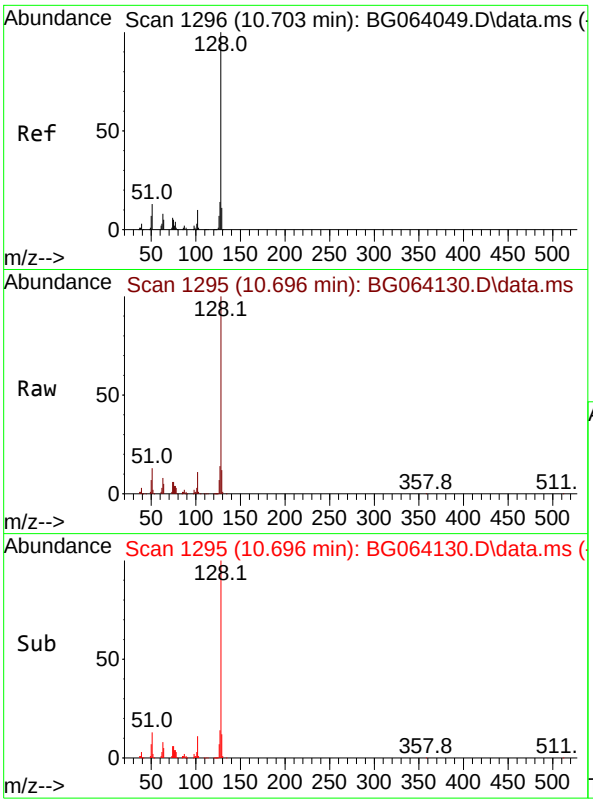


#30
1,2,4-Trichlorobenzene
Concen: 38.496 ng
RT: 10.513 min Scan# 1264
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:180 Resp: 99331

Ion	Ratio	Lower	Upper
180	100		
182	99.2	77.3	115.9
145	34.0	25.2	37.8

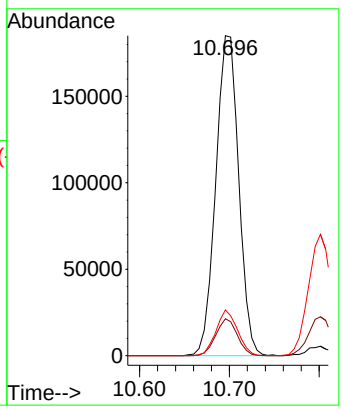




#31
Naphthalene
Concen: 39.038 ng
RT: 10.696 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:128 Resp: 32817

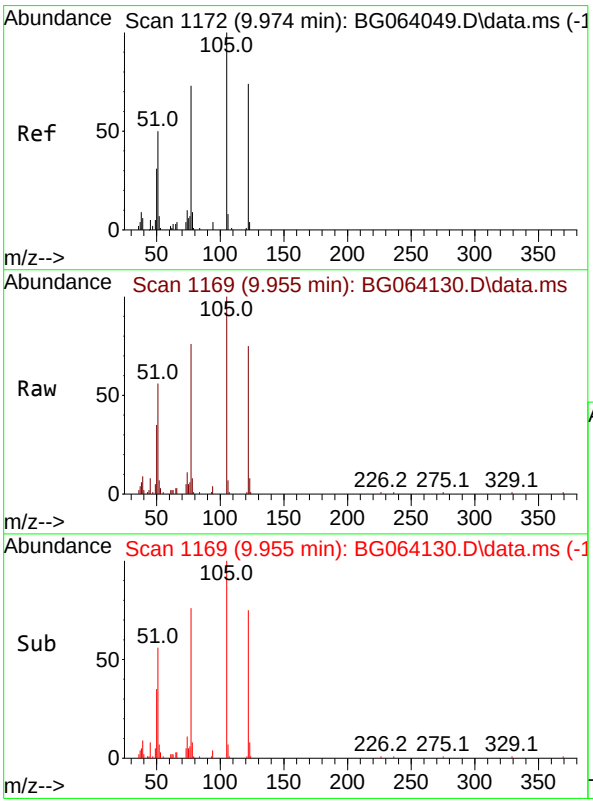
Ion	Ratio	Lower	Upper
128	100		
129	11.6	8.4	12.6
127	14.3	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

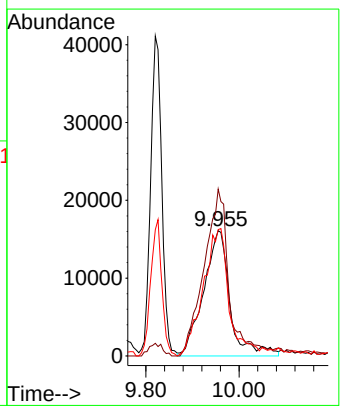
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

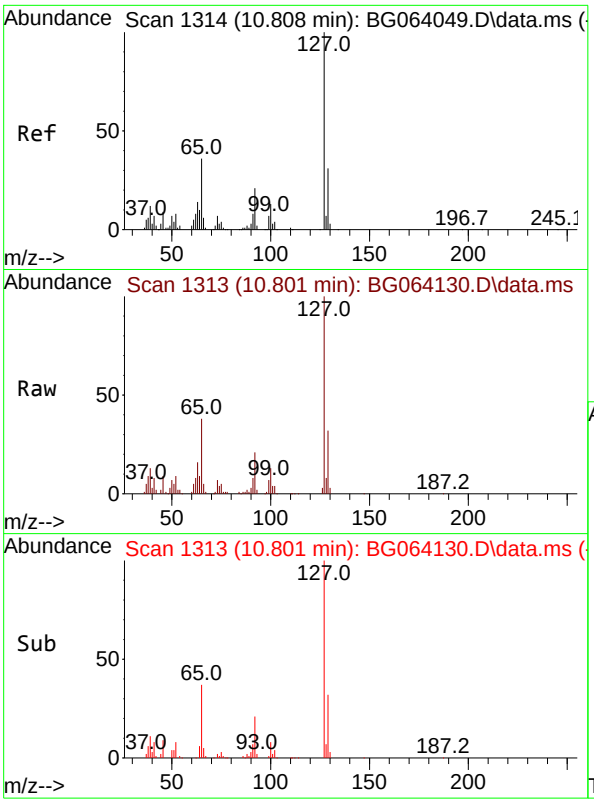


#32
Benzoic acid
Concen: 42.046 ng m
RT: 9.955 min Scan# 1169
Delta R.T. -0.019 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:122 Resp: 63312

Ion	Ratio	Lower	Upper
122	100		
105	133.3	115.0	155.0
77	100.9	80.9	120.9

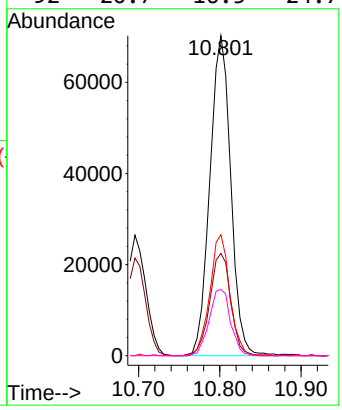




#33
4-Chloroaniline
Concen: 40.936 ng
RT: 10.801 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:127 Resp: 12577

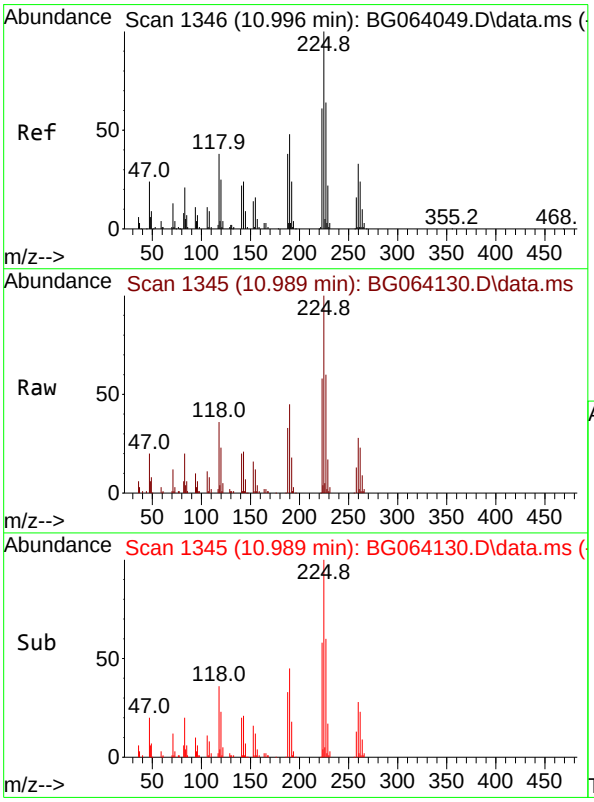
Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.0	37.4
65	37.8	28.5	42.7
92	20.7	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

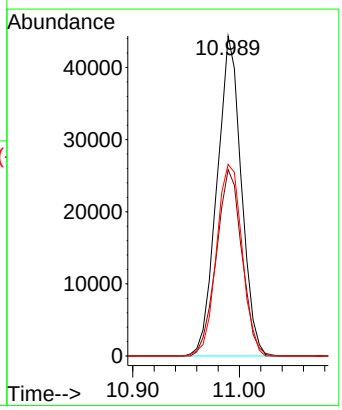
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

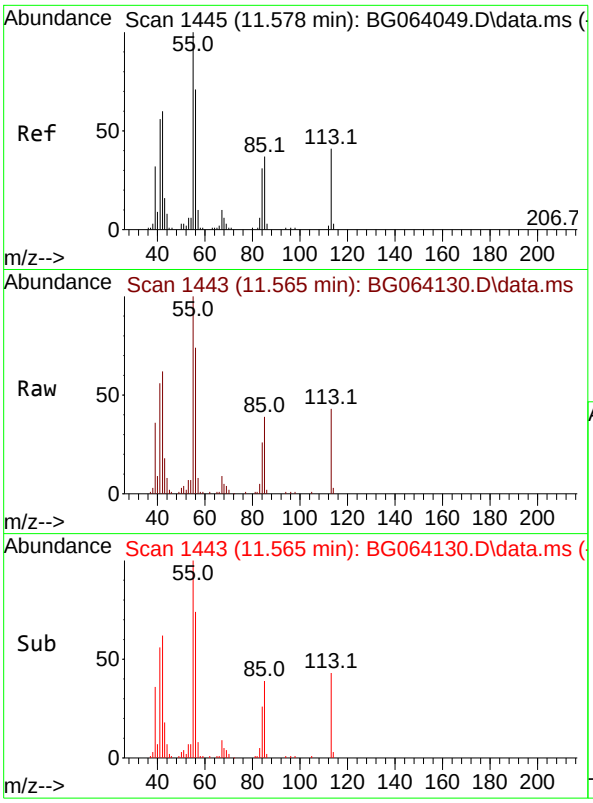


#34
Hexachlorobutadiene
Concen: 41.481 ng
RT: 10.989 min Scan# 1345
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:225 Resp: 70156

Ion	Ratio	Lower	Upper
225	100		
223	58.3	48.5	72.7
227	59.8	51.0	76.6





#35
Caprolactam
Concen: 39.482 ng
RT: 11.565 min Scan# 14
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

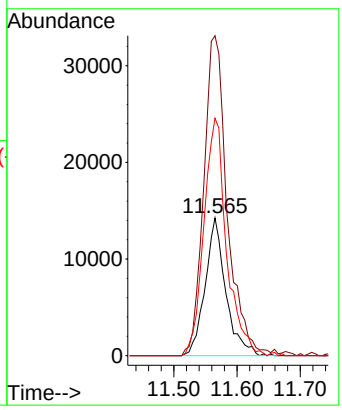
Tgt Ion:113 Resp: 3234

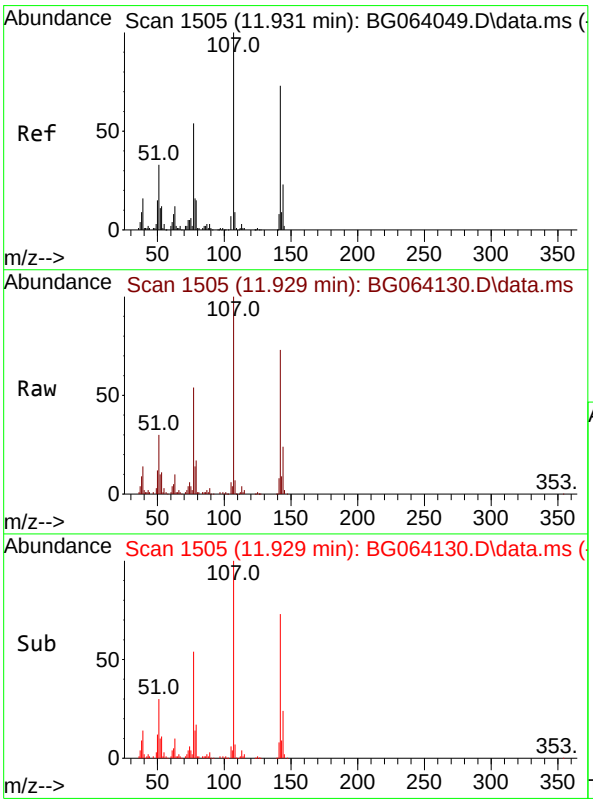
Ion	Ratio	Lower	Upper
113	100		
55	232.2	225.2	265.2
56	172.3	153.4	193.4

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

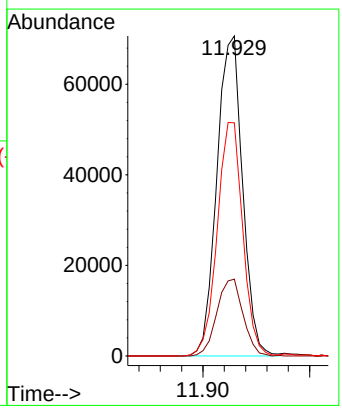


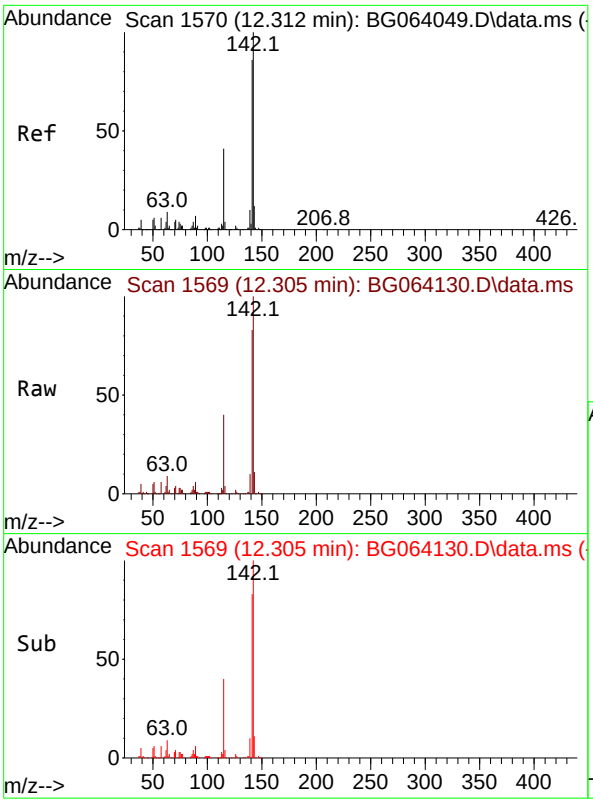


#36
4-Chloro-3-methylphenol
Concen: 42.191 ng
RT: 11.929 min Scan# 1505
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:107 Resp: 118211

Ion	Ratio	Lower	Upper
107	100		
144	24.0	18.6	28.0
142	72.8	58.0	87.0

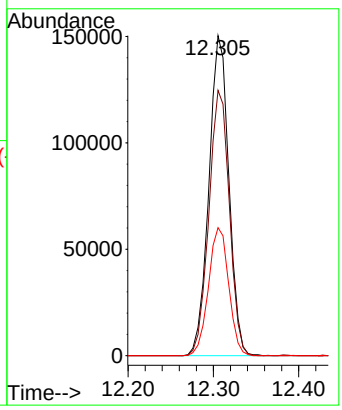




#37
2-Methylnaphthalene
Concen: 41.231 ng
RT: 12.305 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

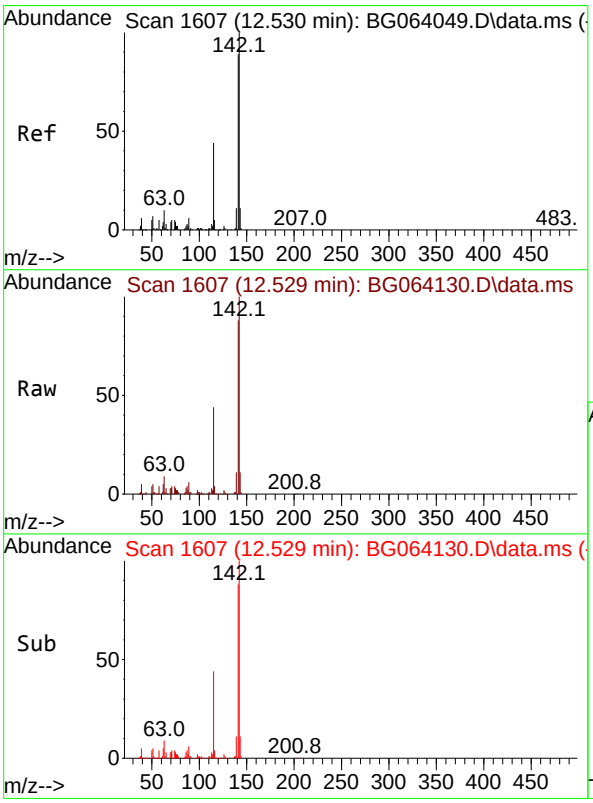
Tgt Ion:142 Resp: 24469

Ion	Ratio	Lower	Upper
142	100		
141	82.9	68.6	103.0
115	40.0	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

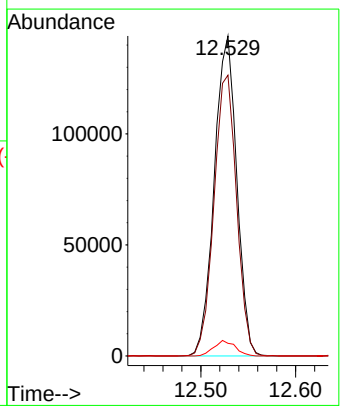
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

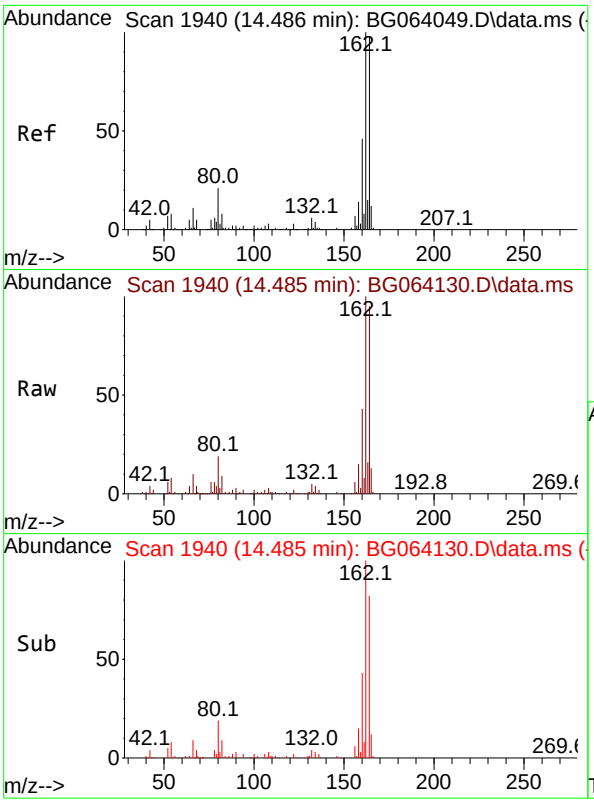


#38
1-Methylnaphthalene
Concen: 40.916 ng
RT: 12.529 min Scan# 1607
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:142 Resp: 237894

Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.2	106.8
116	3.9	3.6	5.4

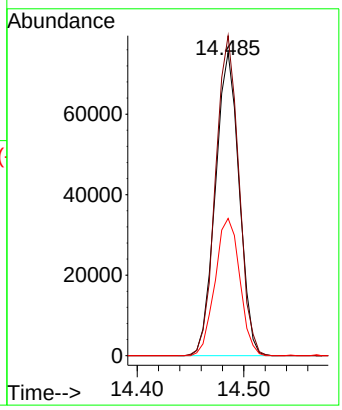




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.485 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:164 Resp: 11626

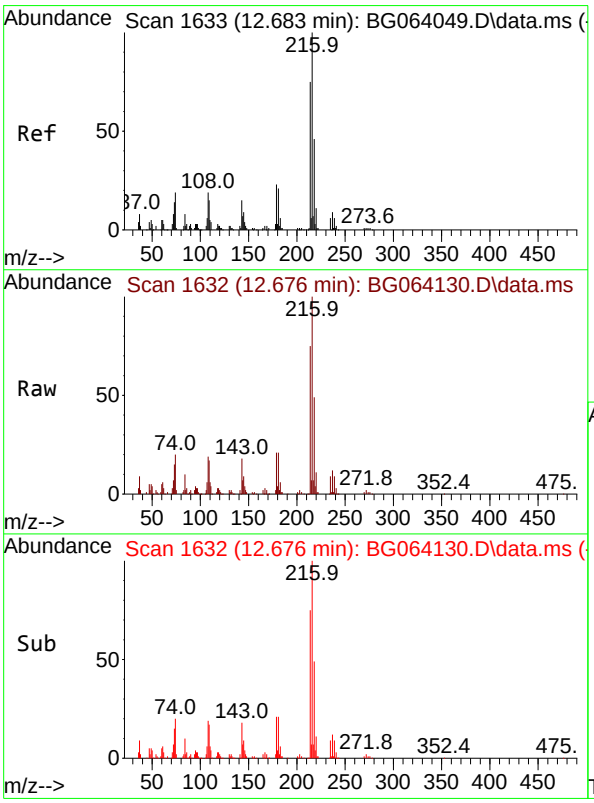
Ion	Ratio	Lower	Upper
164	100		
162	105.6	81.4	122.0
160	45.3	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

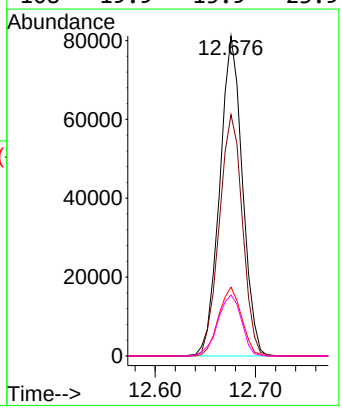
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

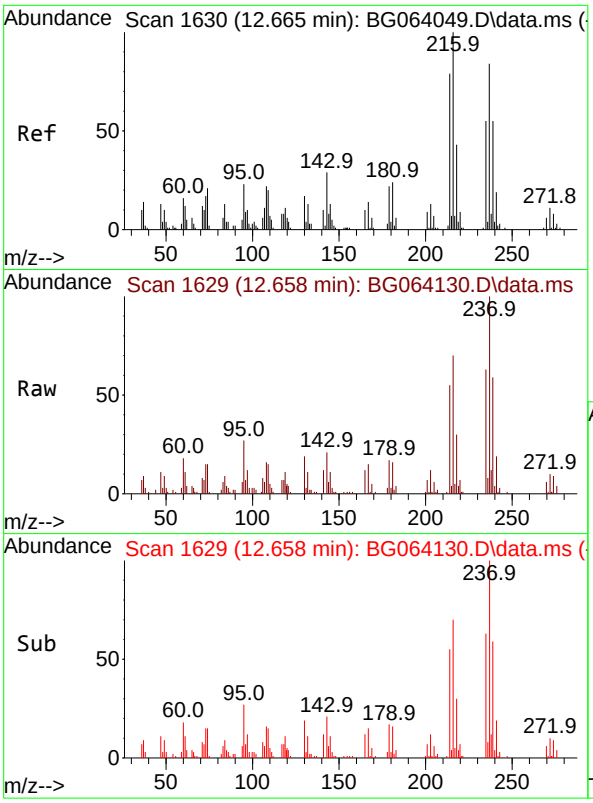


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.365 ng
RT: 12.676 min Scan# 1632
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:216 Resp: 127341

Ion	Ratio	Lower	Upper
216	100		
214	76.8	61.7	92.5
179	21.8	17.9	26.9
108	19.9	15.9	23.9

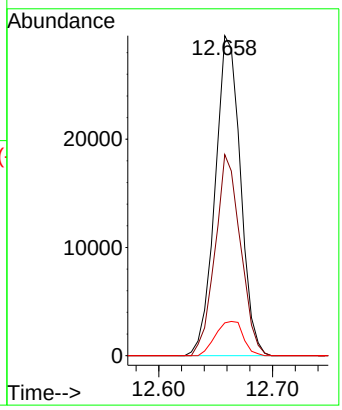




#41
Hexachlorocyclopentadiene
Concen: 48.959 ng
RT: 12.658 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:237 Resp: 4573

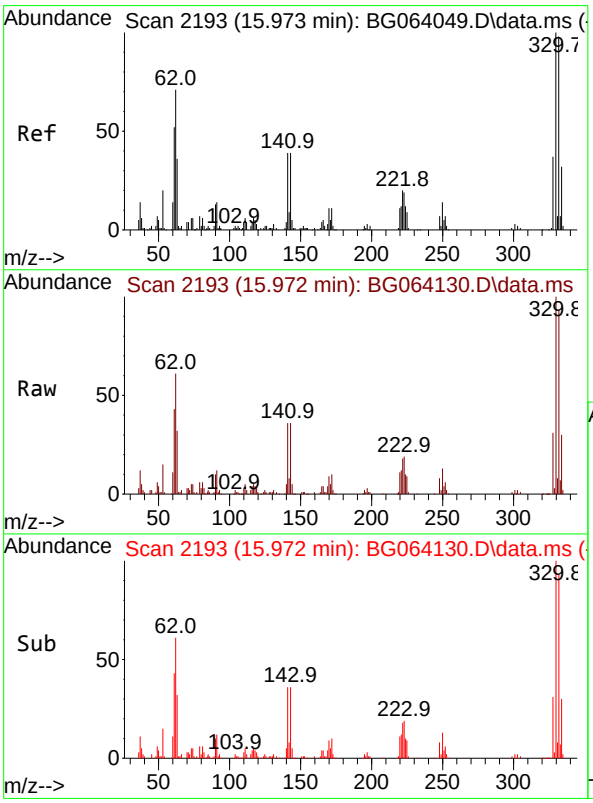
Ion	Ratio	Lower	Upper
237	100		
235	62.9	46.0	86.0
272	10.2	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

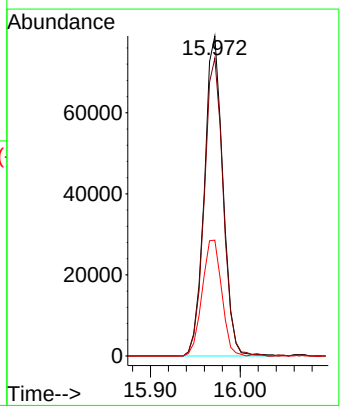
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

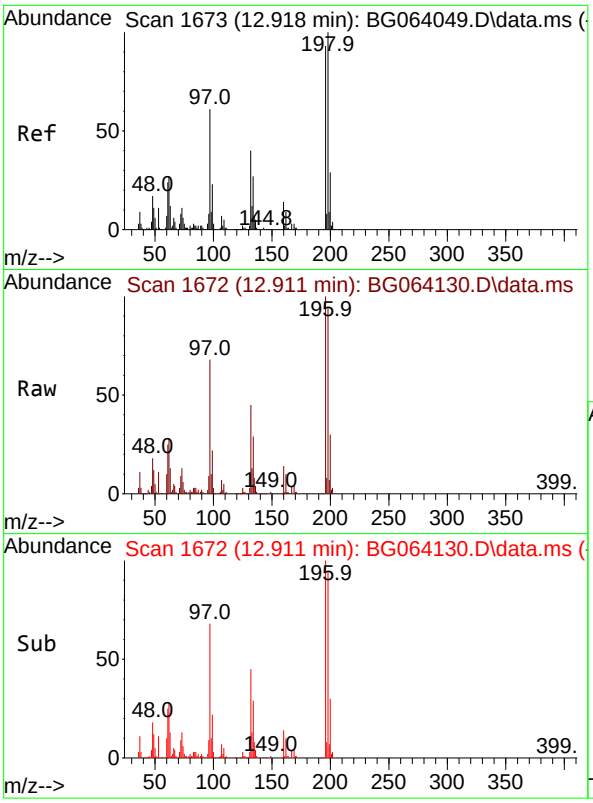


#42
2,4,6-Tribromophenol
Concen: 87.719 ng
RT: 15.972 min Scan# 2193
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:330 Resp: 113362

Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.7	115.1
141	37.9	29.7	44.5





#43
2,4,6-Trichlorophenol
Concen: 40.932 ng
RT: 12.911 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

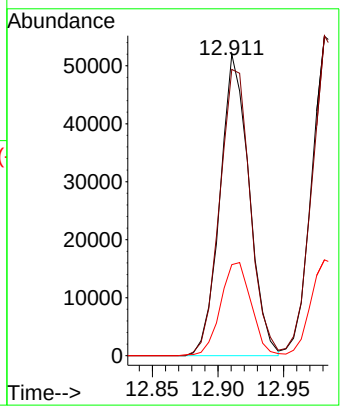
Tgt Ion:196 Resp: 8007

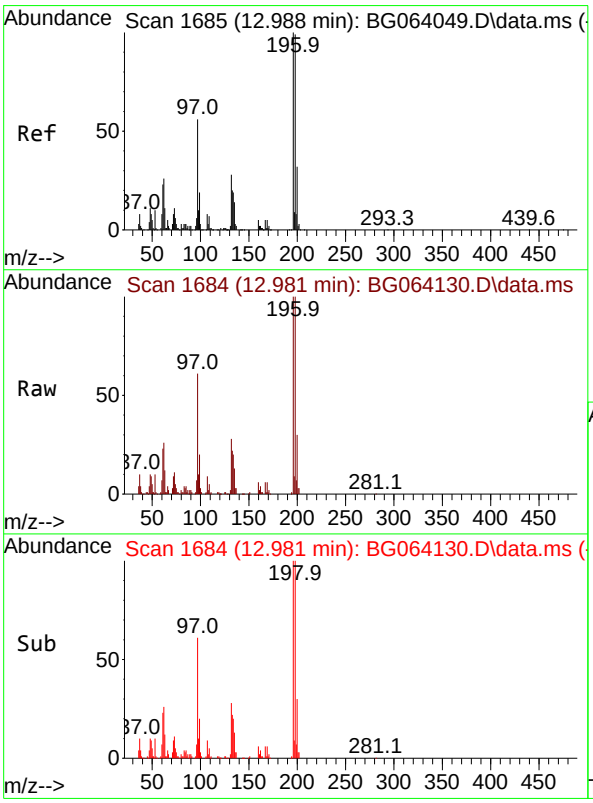
Ion	Ratio	Lower	Upper
196	100		
198	95.0	85.6	128.4
200	30.2	24.6	37.0

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

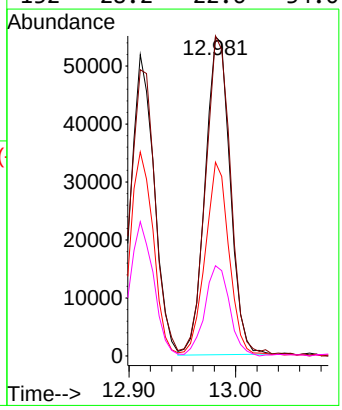


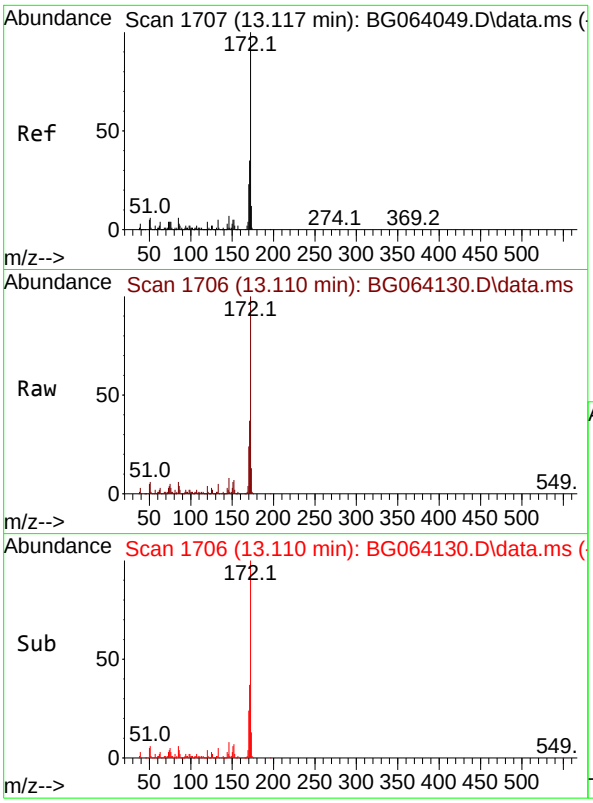


#44
2,4,5-Trichlorophenol
Concen: 40.950 ng
RT: 12.981 min Scan# 1684
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:196 Resp: 89010

Ion	Ratio	Lower	Upper
196	100		
198	100.2	79.5	119.3
97	60.6	45.2	67.8
132	28.2	22.6	34.0

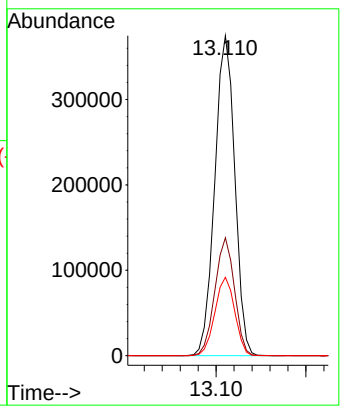




#45
2-Fluorobiphenyl
Concen: 75.620 ng
RT: 13.110 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:172 Resp: 57921

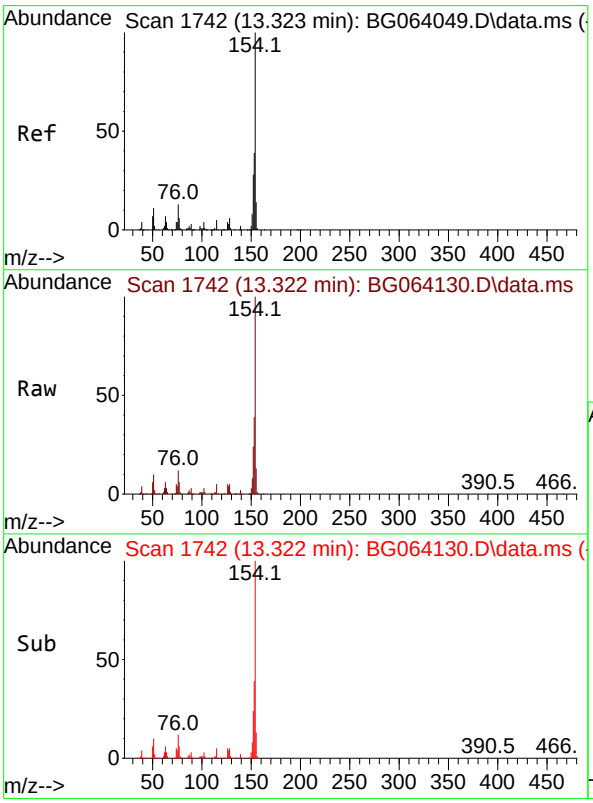
Ion	Ratio	Lower	Upper
172	100		
171	36.9	28.0	42.0
170	24.5	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

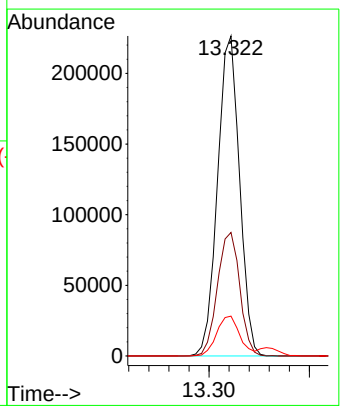
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

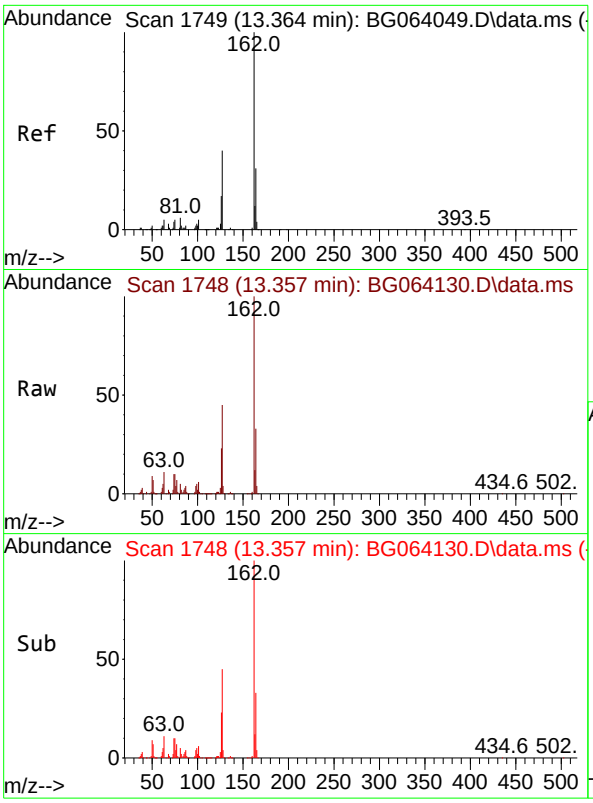


#46
1,1'-Biphenyl
Concen: 39.084 ng
RT: 13.322 min Scan# 1742
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:154 Resp: 343299

Ion	Ratio	Lower	Upper
154	100		
153	38.6	19.5	59.5
76	12.4	0.0	33.5

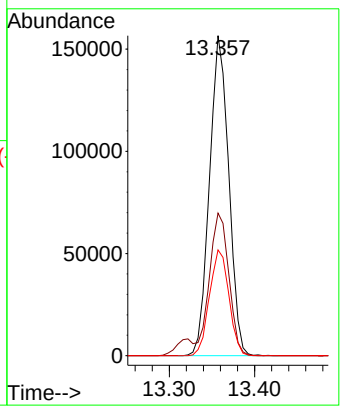




#47
2-Chloronaphthalene
Concen: 38.334 ng
RT: 13.357 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:162 Resp: 24557

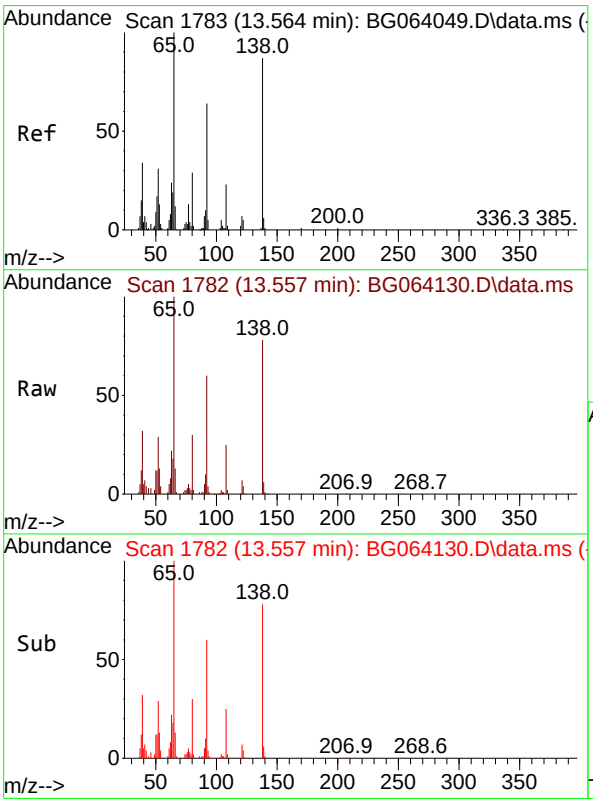
Ion	Ratio	Lower	Upper
162	100		
127	44.6	35.0	52.4
164	33.1	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

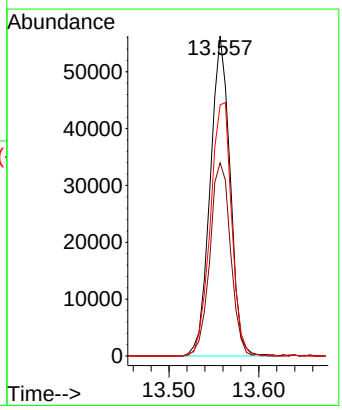
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

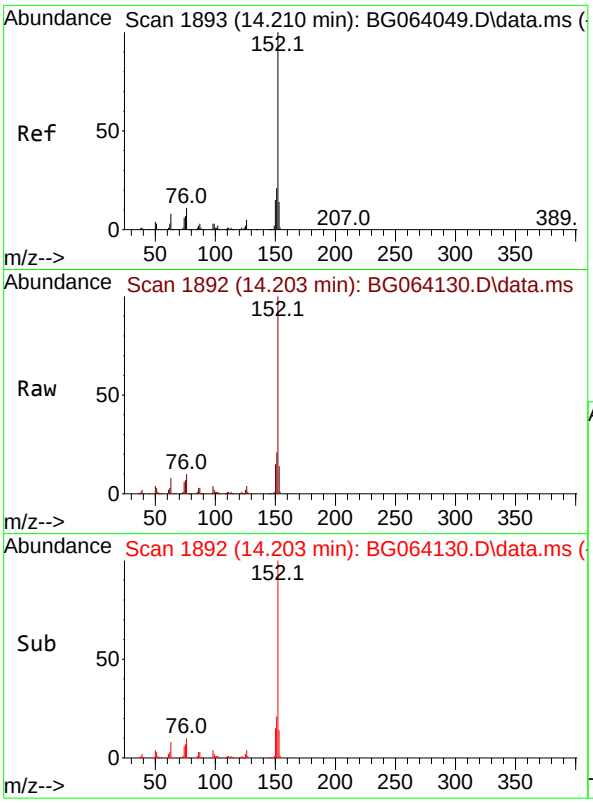


#48
2-Nitroaniline
Concen: 41.926 ng
RT: 13.557 min Scan# 1782
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 65 Resp: 86671

Ion	Ratio	Lower	Upper
65	100		
92	60.4	51.2	76.8
138	78.5	69.4	104.2

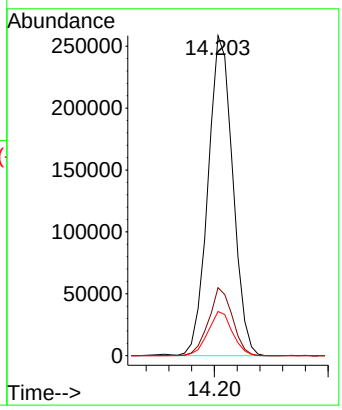




#49
Acenaphthylene
Concen: 38.588 ng
RT: 14.203 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:152 Resp: 39100

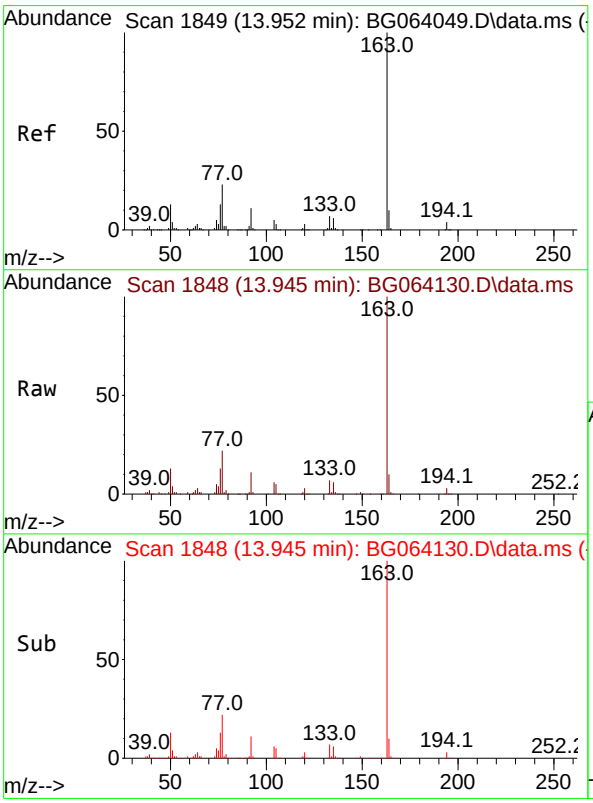
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.4	24.6
153	13.8	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

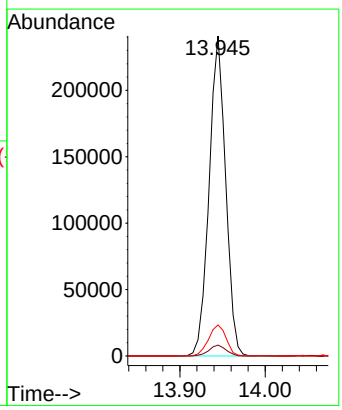
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

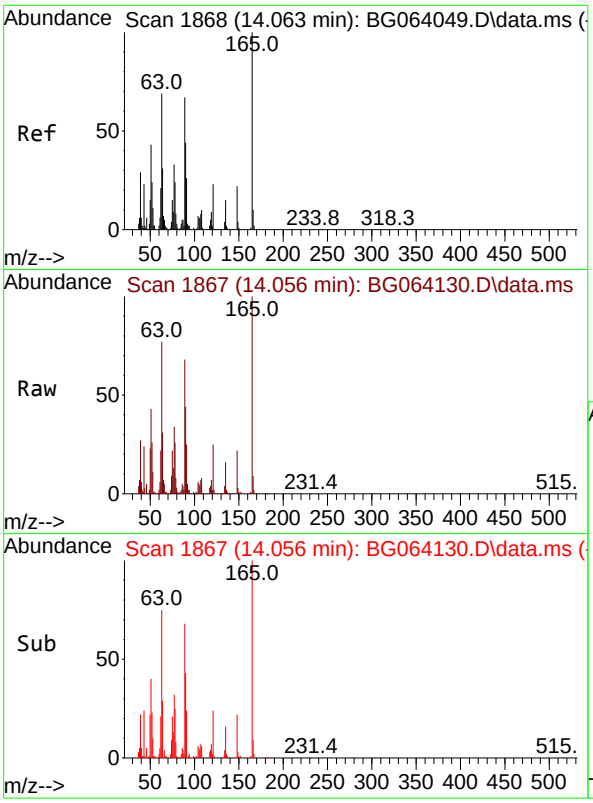


#50
Dimethylphthalate
Concen: 37.720 ng
RT: 13.945 min Scan# 1848
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:163 Resp: 323722

Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.8	4.2
164	9.7	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 40.502 ng
RT: 14.056 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

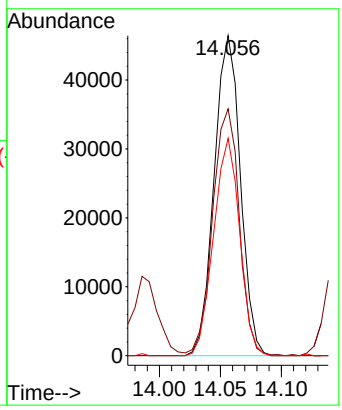
Tgt Ion:165 Resp: 6953

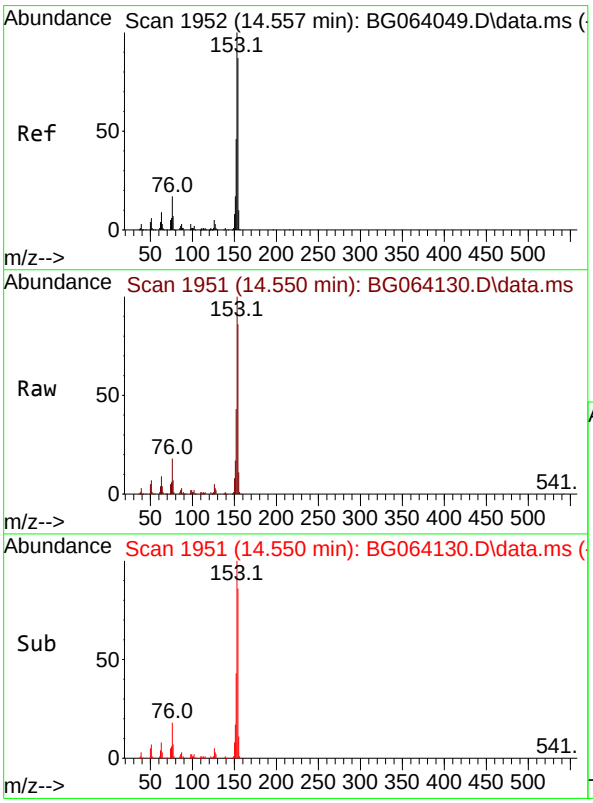
Ion	Ratio	Lower	Upper
165	100		
63	77.2	56.7	85.1
89	67.9	53.7	80.5

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

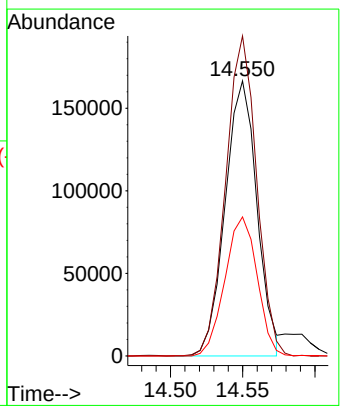


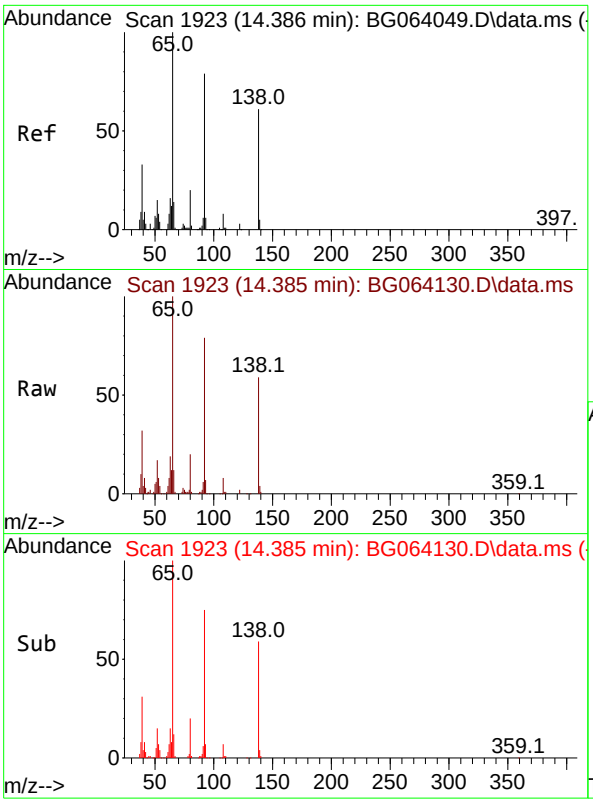


#52
Acenaphthene
Concen: 37.546 ng m
RT: 14.550 min Scan# 1951
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:154 Resp: 255324

Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.6	137.4
152	50.5	42.5	63.7

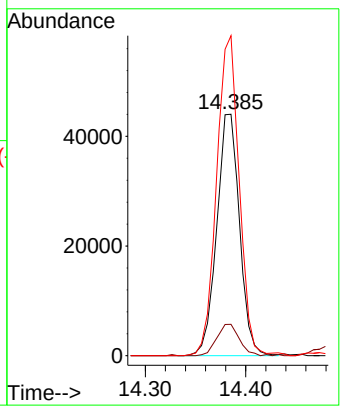




#53
3-Nitroaniline
Concen: 41.772 ng
RT: 14.385 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:138 Resp: 6928

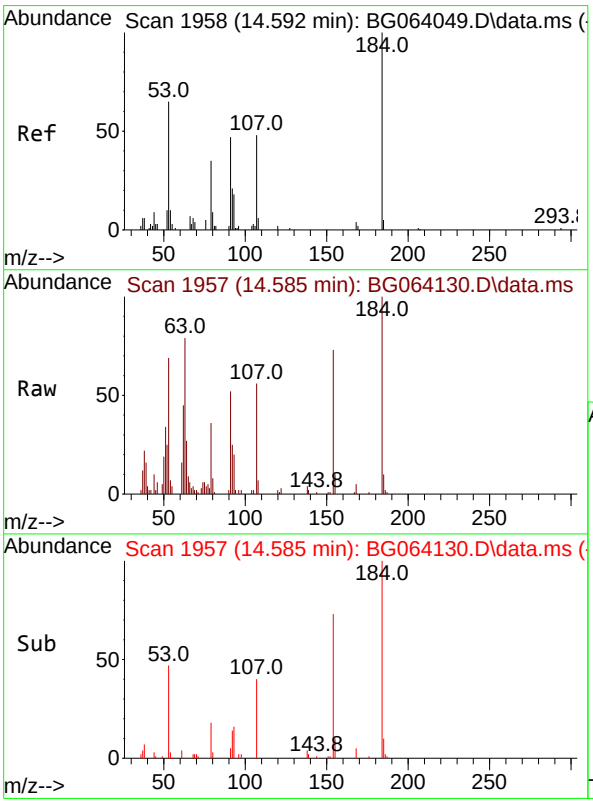
Ion	Ratio	Lower	Upper
138	100		
108	13.0	10.1	15.1
92	132.5	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

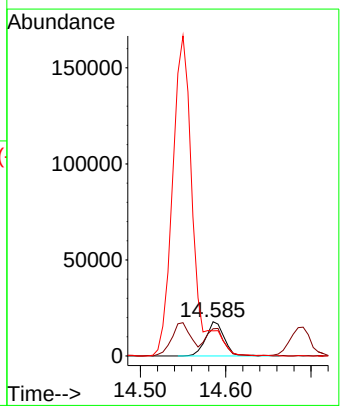
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

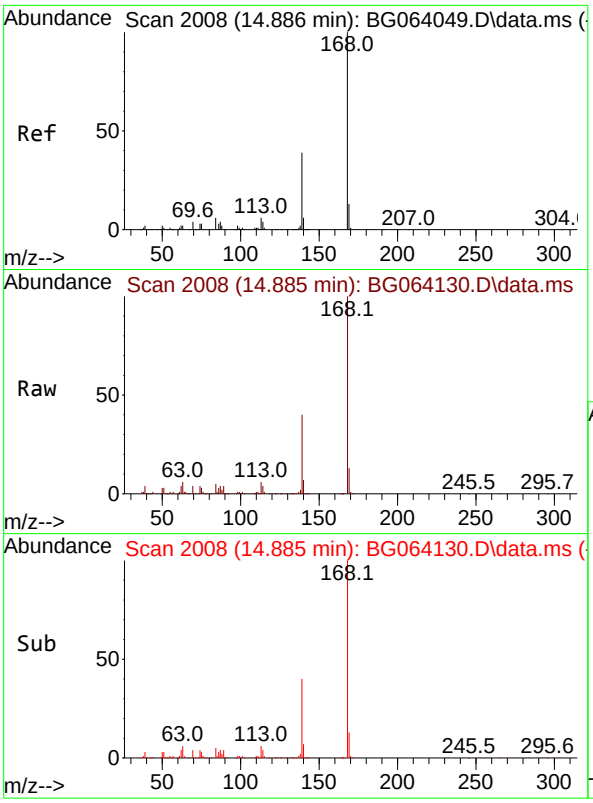


#54
2,4-Dinitrophenol
Concen: 41.200 ng
RT: 14.585 min Scan# 1957
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:184 Resp: 26830

Ion	Ratio	Lower	Upper
184	100		
63	79.2	57.5	86.3
154	73.1	52.3	78.5

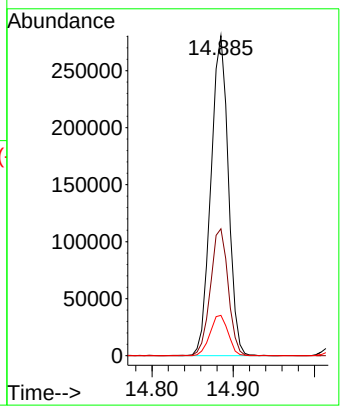




#55
Dibenzofuran
Concen: 37.949 ng
RT: 14.885 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:168 Resp: 41805

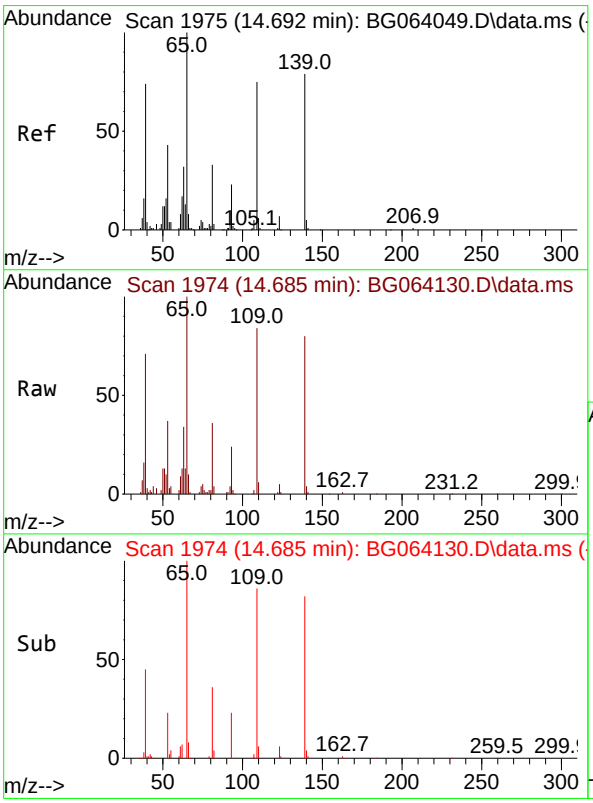
Ion	Ratio	Lower	Upper
168	100		
139	39.7	31.1	46.7
169	12.6	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

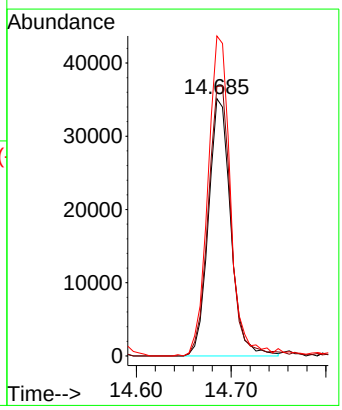
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

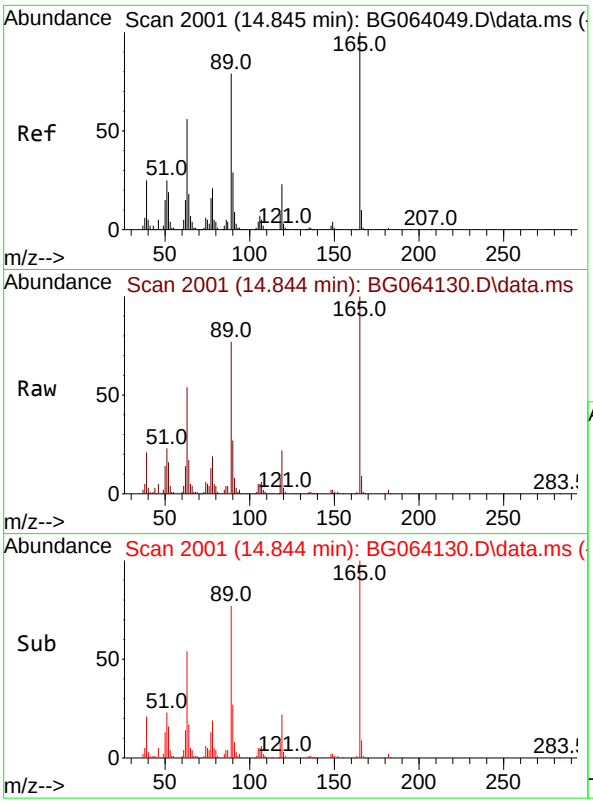


#56
4-Nitrophenol
Concen: 41.052 ng
RT: 14.685 min Scan# 1974
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:139 Resp: 57108

Ion	Ratio	Lower	Upper
139	100		
109	104.7	74.9	114.9
65	124.4	106.8	146.8

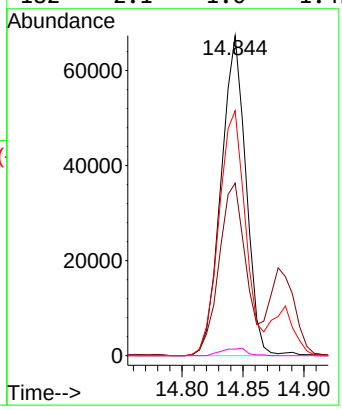




#57
2,4-Dinitrotoluene
Concen: 40.317 ng
RT: 14.844 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:165 Resp: 9533

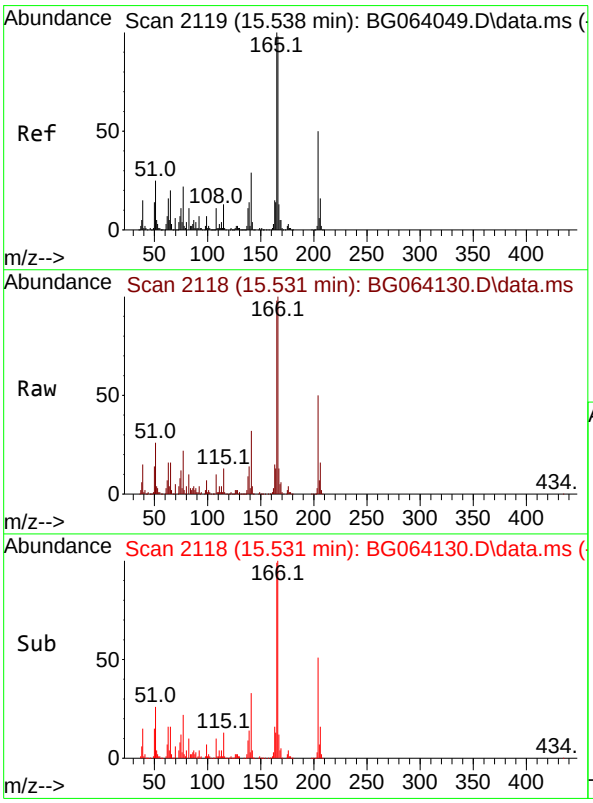
Ion	Ratio	Lower	Upper
165	100		
63	53.9	45.0	67.6
89	76.6	63.1	94.7
182	2.1	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

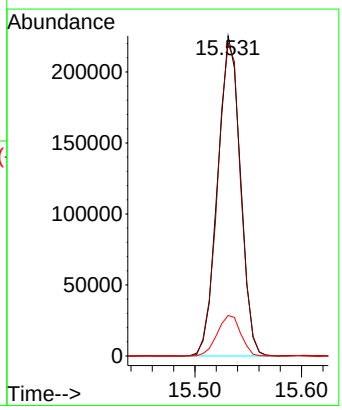
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

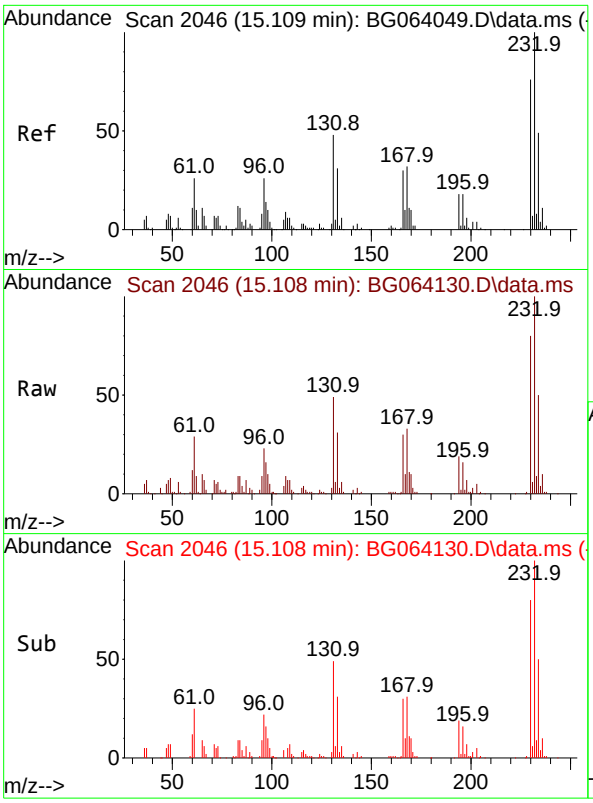


#58
Fluorene
Concen: 38.780 ng
RT: 15.531 min Scan# 2118
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:166 Resp: 332741

Ion	Ratio	Lower	Upper
166	100		
165	97.7	81.8	122.8
167	12.7	10.8	16.2

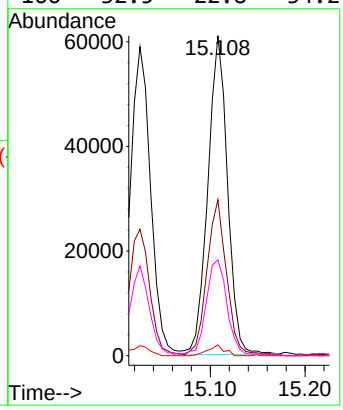




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.360 ng
RT: 15.108 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:232 Resp: 8764

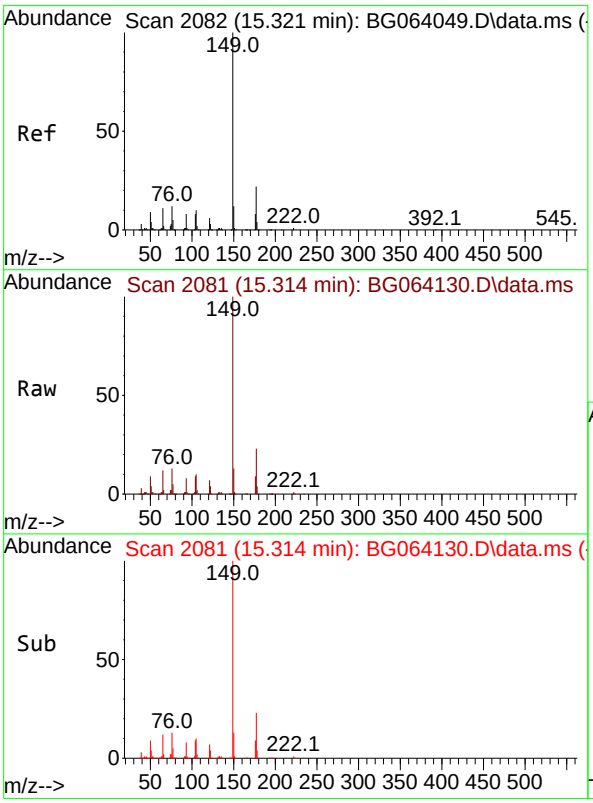
Ion	Ratio	Lower	Upper
232	100		
131	49.2	36.3	54.5
130	2.8	1.9	2.9
166	32.5	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

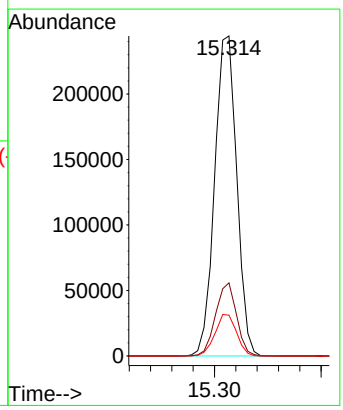
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

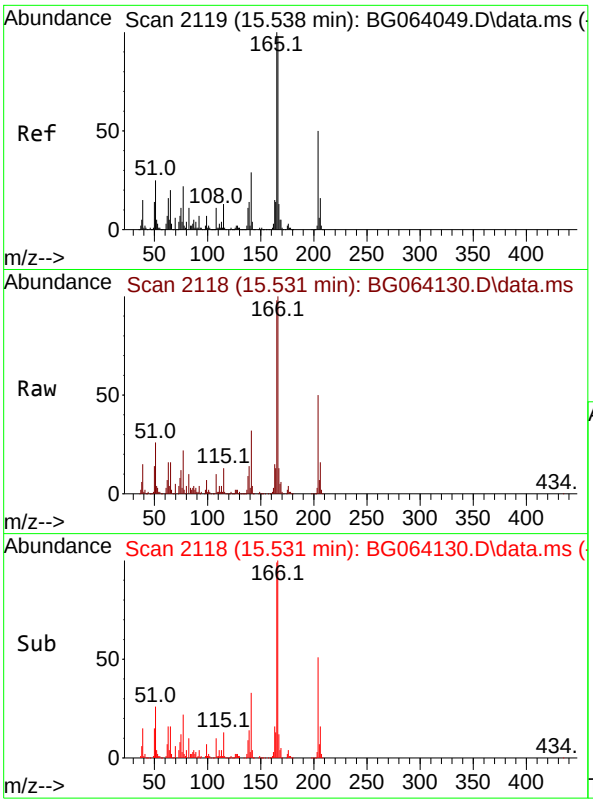


#60
Diethylphthalate
Concen: 37.699 ng
RT: 15.314 min Scan# 2081
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 351236

Ion	Ratio	Lower	Upper
149	100		
177	22.9	17.4	26.2
150	12.8	9.4	14.2

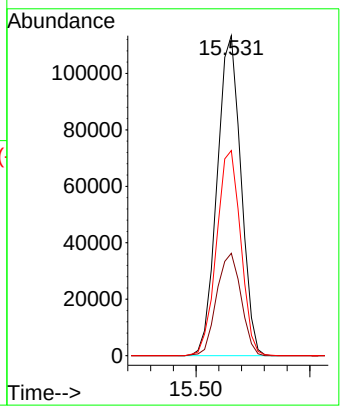




#61
4-Chlorophenyl-phenylether
Concen: 38.708 ng
RT: 15.531 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

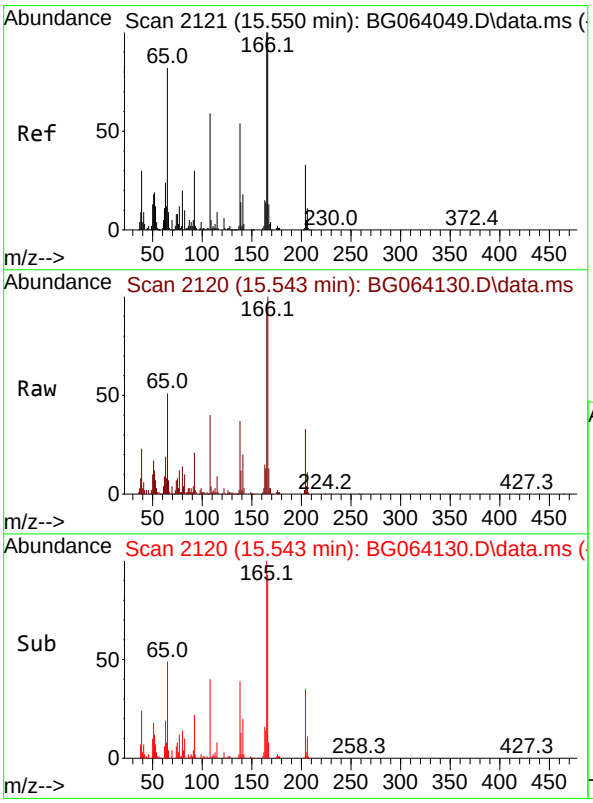
Tgt Ion:204 Resp: 16504

Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.5	38.3
141	64.1	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

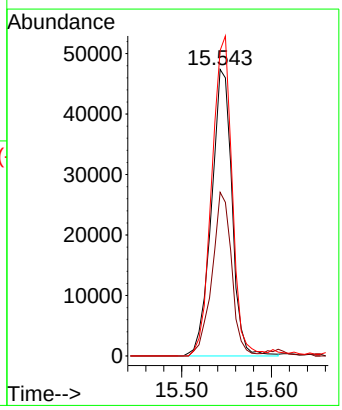
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

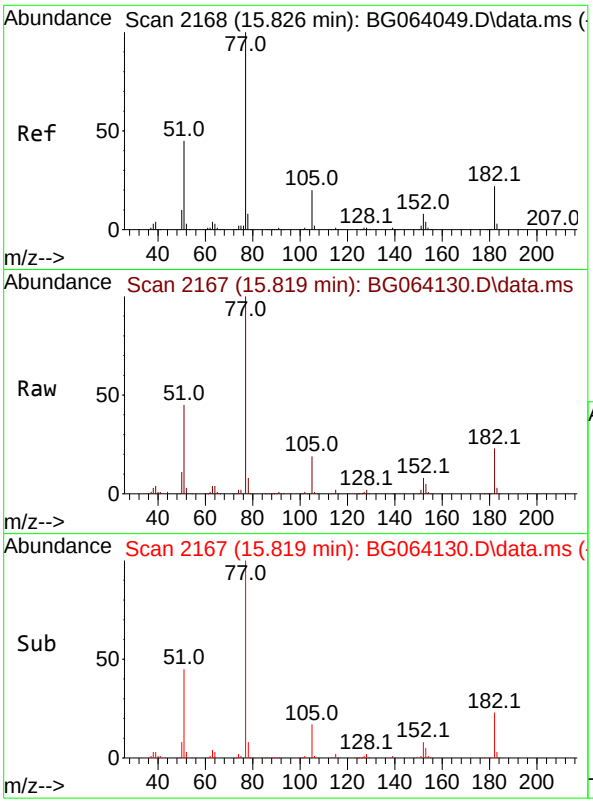


#62
4-Nitroaniline
Concen: 41.984 ng
RT: 15.543 min Scan# 2120
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:138 Resp: 75185

Ion	Ratio	Lower	Upper
138	100		
92	57.1	36.1	76.1
108	106.6	87.9	127.9

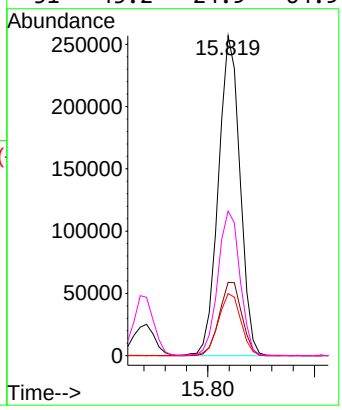




#63
Azobenzene
Concen: 36.371 ng
RT: 15.819 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion: 77 Resp: 361599

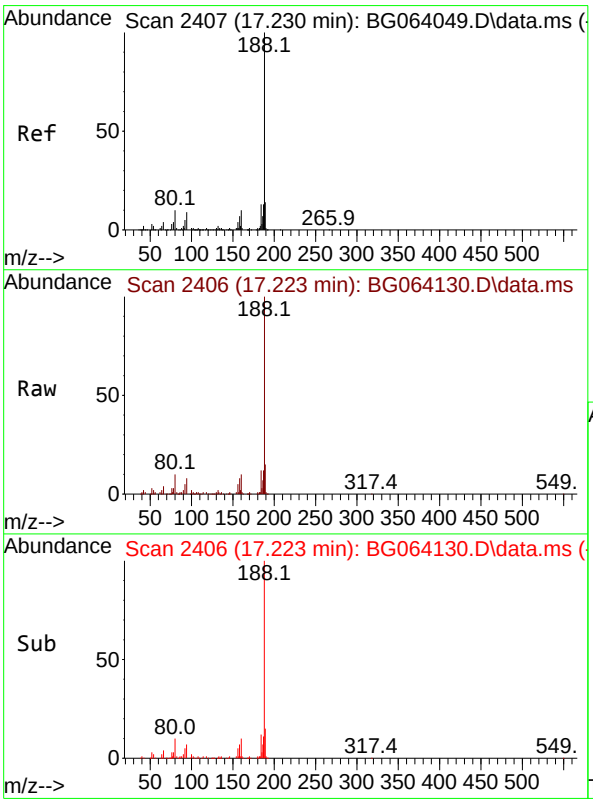
Ion	Ratio	Lower	Upper
77	100		
182	22.9	2.4	42.4
105	19.4	0.0	40.0
51	45.2	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

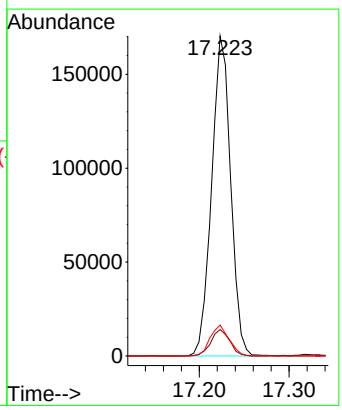
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

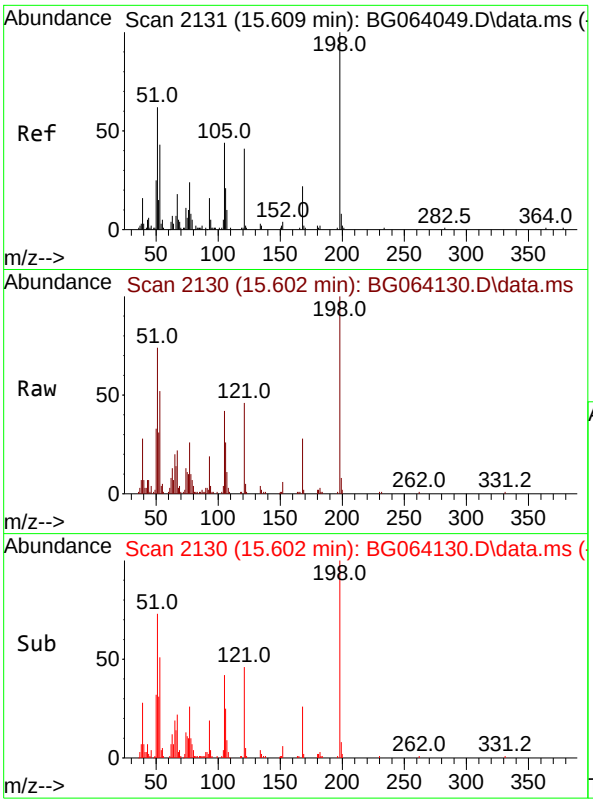


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.223 min Scan# 2406
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:188 Resp: 250435

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.9	10.3
80	9.7	8.1	12.1

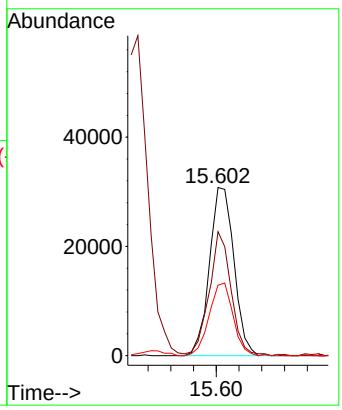




#65
4,6-Dinitro-2-methylphenol
Concen: 43.534 ng
RT: 15.602 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:198 Resp: 4610

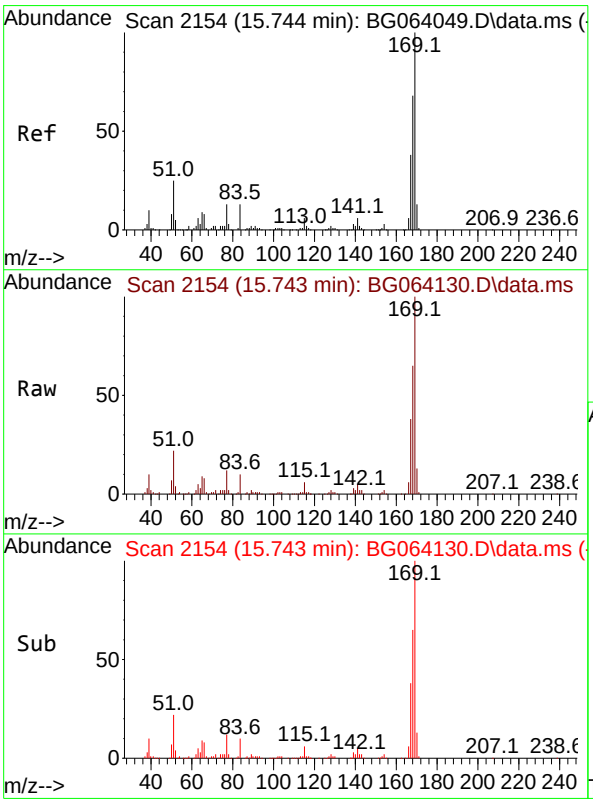
Ion	Ratio	Lower	Upper
198	100		
51	73.8	45.6	85.6
105	42.0	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

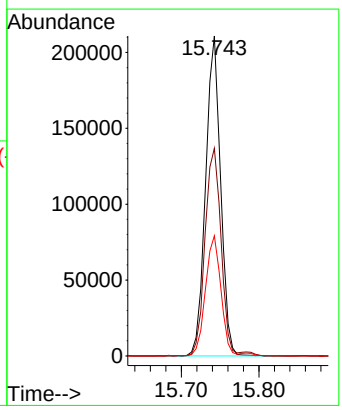
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

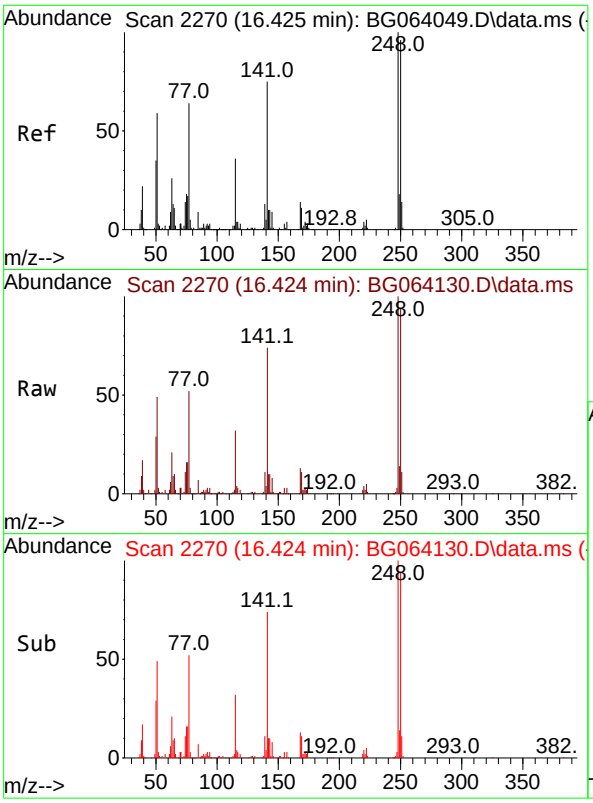


#66
n-Nitrosodiphenylamine
Concen: 39.898 ng
RT: 15.743 min Scan# 2154
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:169 Resp: 282830

Ion	Ratio	Lower	Upper
169	100		
168	64.9	54.1	81.1
167	37.6	30.3	45.5

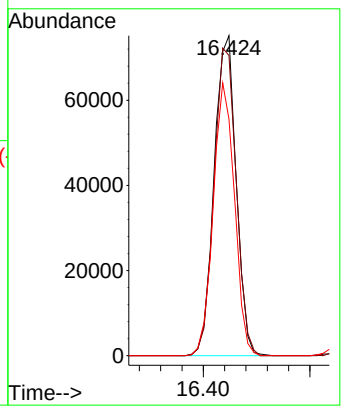




#67
4-Bromophenyl-phenylether
Concen: 41.896 ng
RT: 16.424 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:248 Resp: 10746

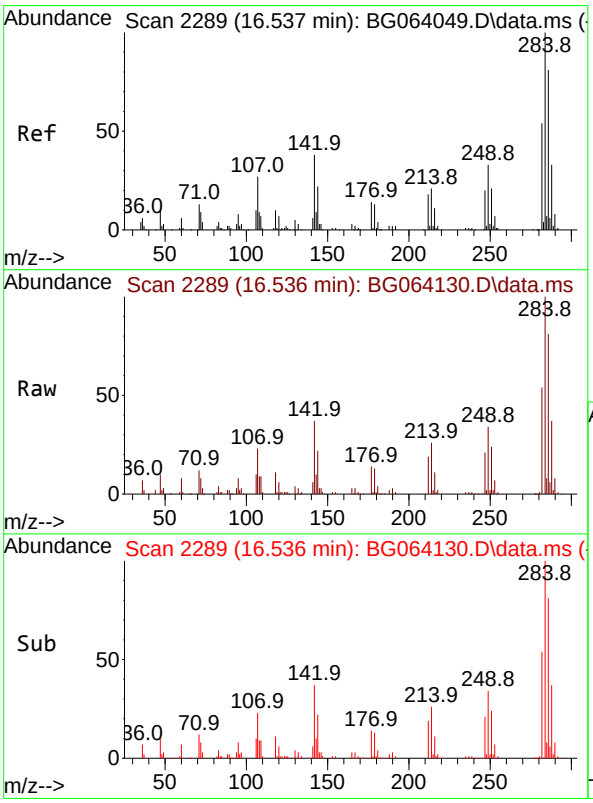
Ion	Ratio	Lower	Upper
248	100		
250	93.8	77.1	115.7
141	73.9	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

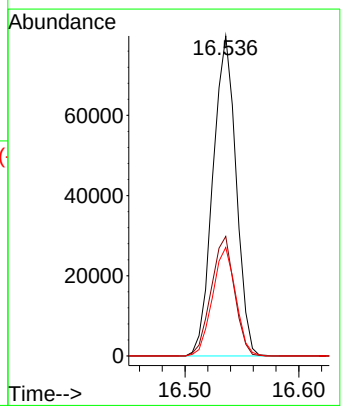
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

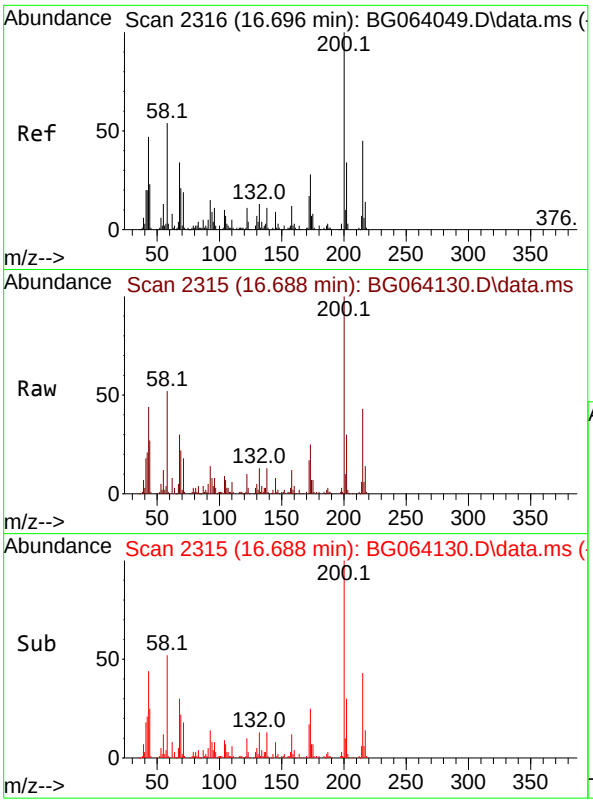


#68
Hexachlorobenzene
Concen: 39.358 ng
RT: 16.536 min Scan# 2289
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:284 Resp: 113017

Ion	Ratio	Lower	Upper
284	100		
142	37.3	30.6	45.8
249	33.9	26.6	39.8

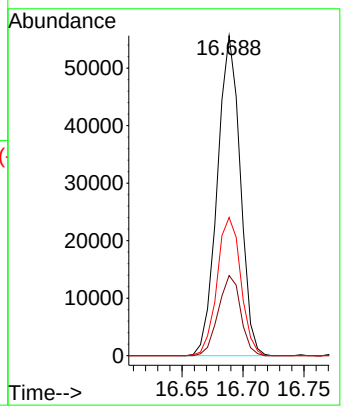




#69
Atrazine
Concen: 34.958 ng
RT: 16.688 min Scan# 2
Delta R.T. -0.008 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:200 Resp: 7291

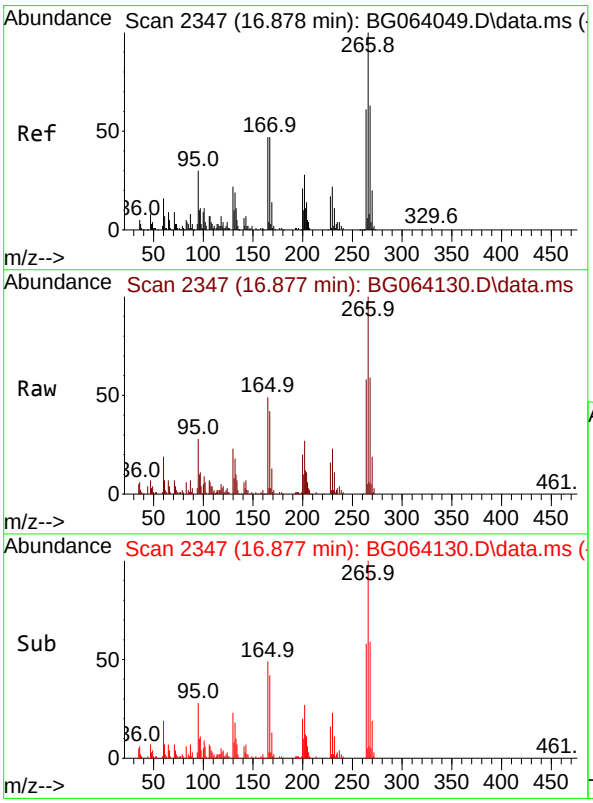
Ion	Ratio	Lower	Upper
200	100		
173	25.1	8.2	48.2
215	43.2	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

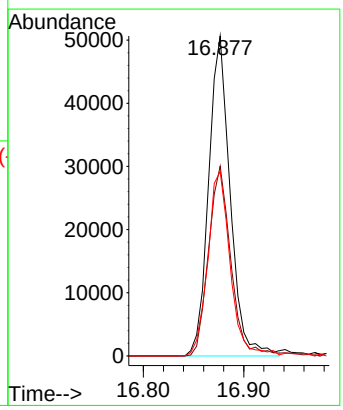
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

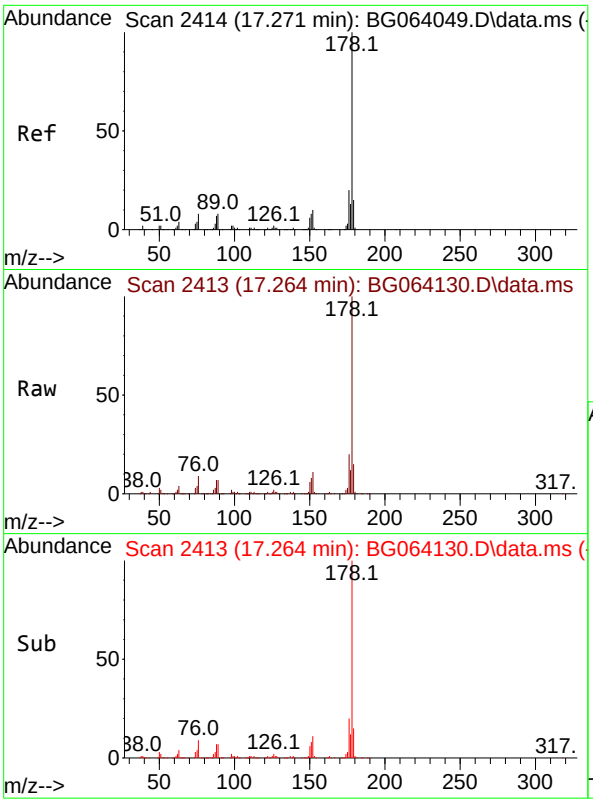


#70
Pentachlorophenol
Concen: 42.485 ng
RT: 16.877 min Scan# 2347
Delta R.T. -0.002 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:266 Resp: 75747

Ion	Ratio	Lower	Upper
266	100		
268	59.3	50.2	75.4
264	57.6	48.9	73.3

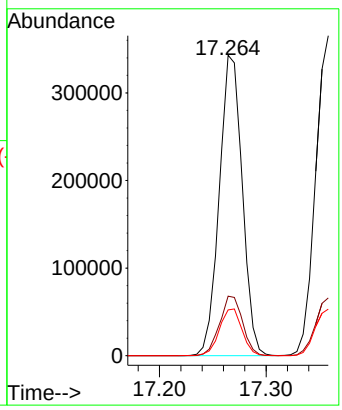




#71
Phenanthrene
Concen: 38.446 ng
RT: 17.264 min Scan# 24
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:178 Resp: 51355

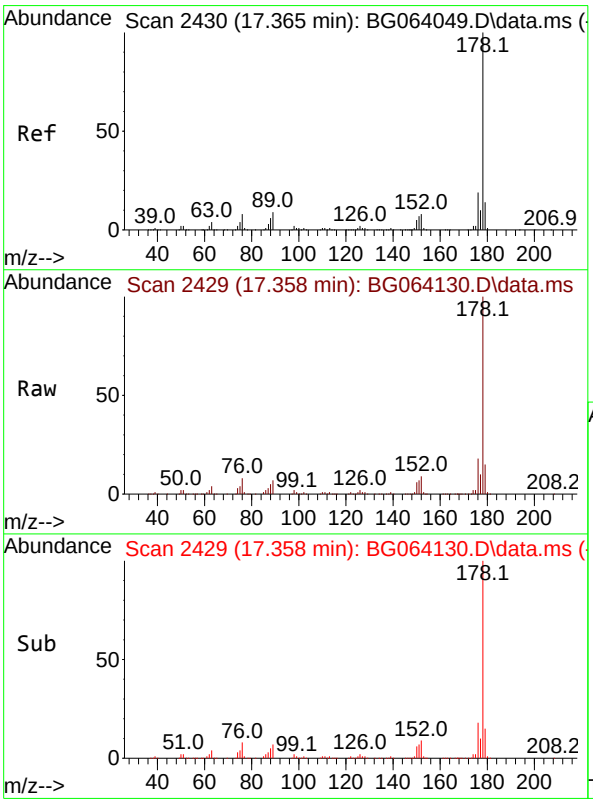
Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.9	23.9
179	15.2	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

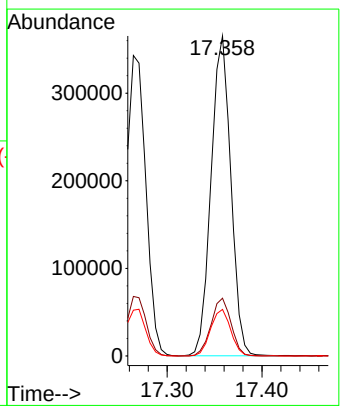
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

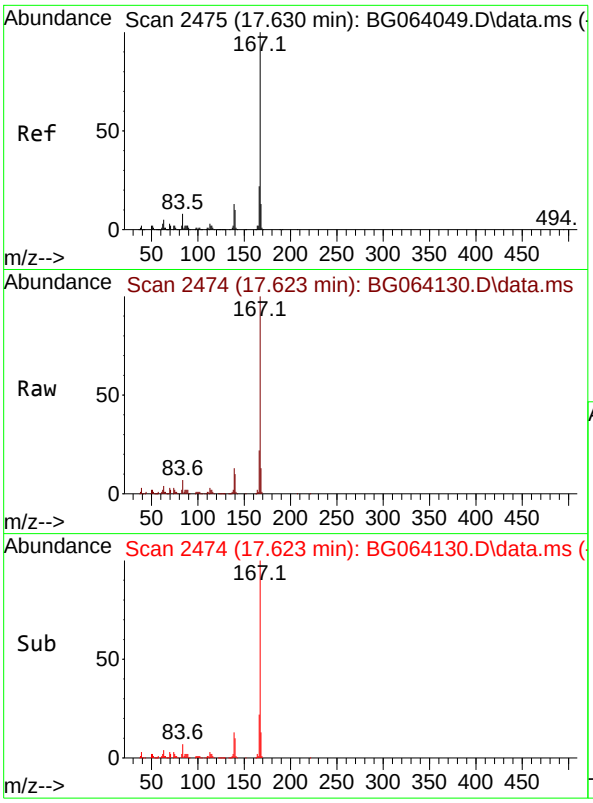


#72
Anthracene
Concen: 39.748 ng
RT: 17.358 min Scan# 2429
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:178 Resp: 527940

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.8	22.2
179	14.6	11.5	17.3

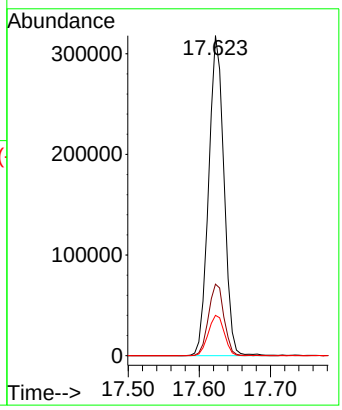




#73
Carbazole
Concen: 38.352 ng
RT: 17.623 min Scan# 24
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:167 Resp: 47561

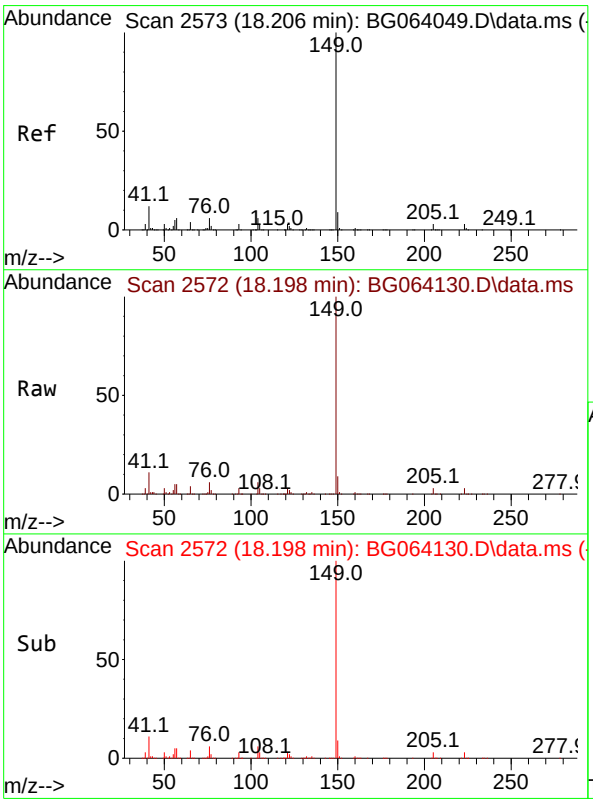
Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.0	27.0
139	12.6	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

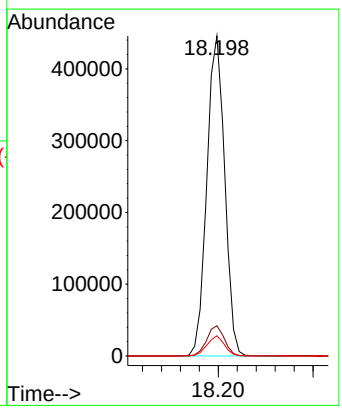
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

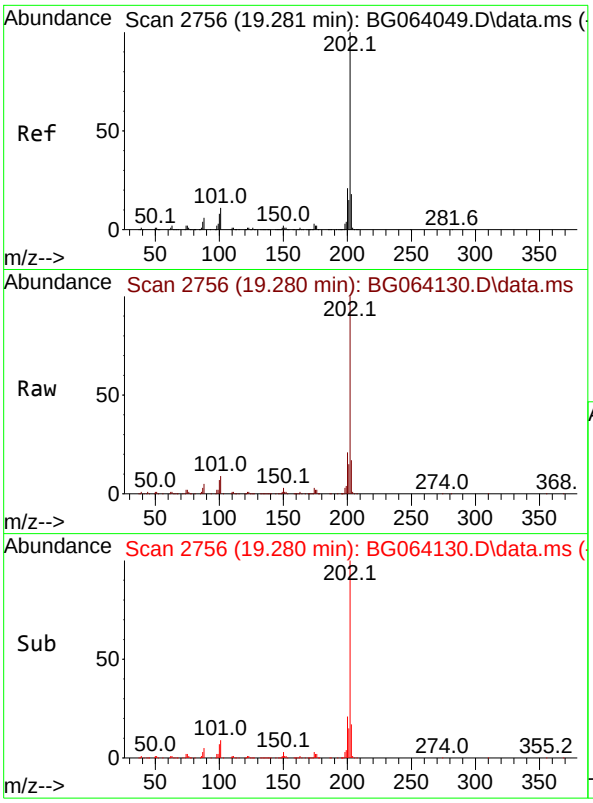


#74
Di-n-butylphthalate
Concen: 39.790 ng
RT: 18.198 min Scan# 2572
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 580832

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.4	11.0
104	6.3	5.0	7.6

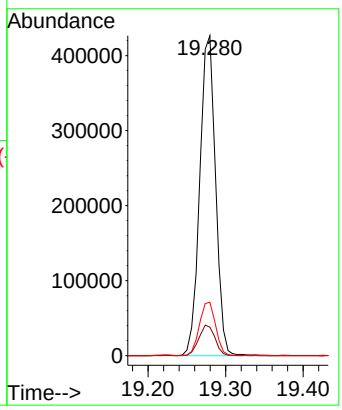




#75
Fluoranthene
Concen: 37.548 ng
RT: 19.280 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:202 Resp: 60465

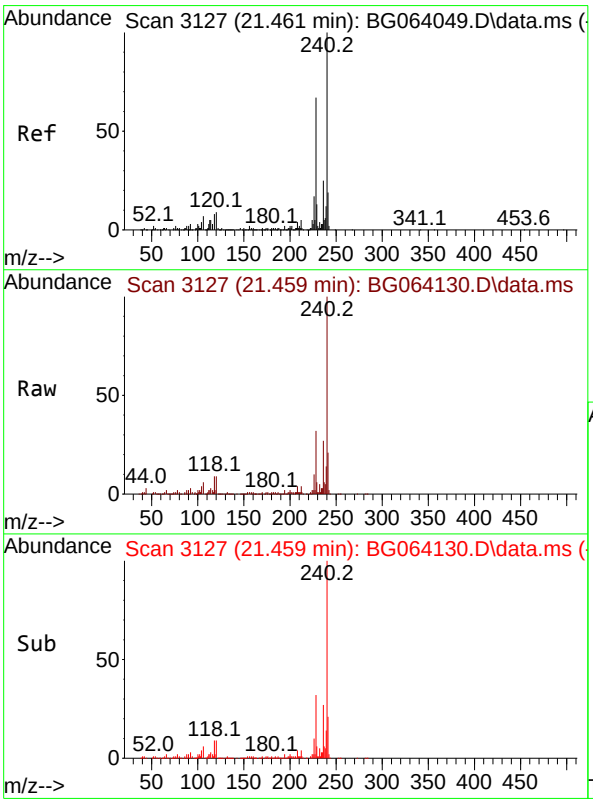
Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	30.5
203	16.7	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

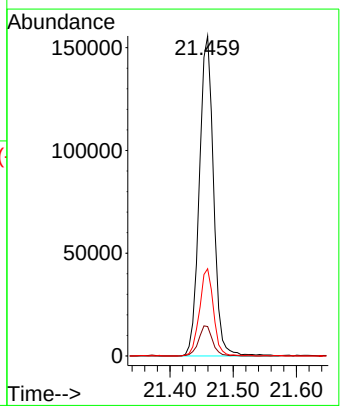
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

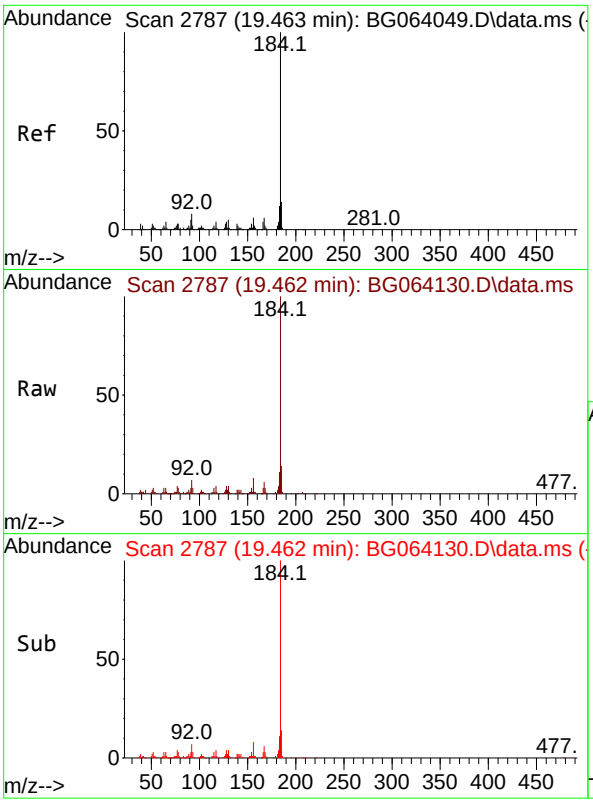


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.459 min Scan# 3127
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:240 Resp: 243510

Ion	Ratio	Lower	Upper
240	100		
120	9.2	7.2	10.8
236	27.3	20.2	30.2

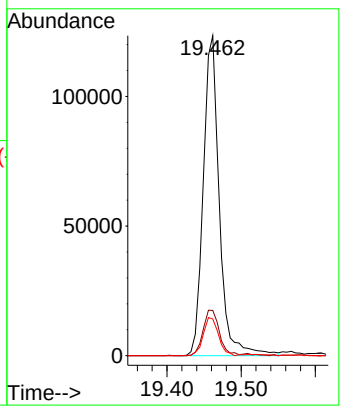




#77
Benzidine
Concen: 55.118 ng
RT: 19.462 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:184 Resp: 18585

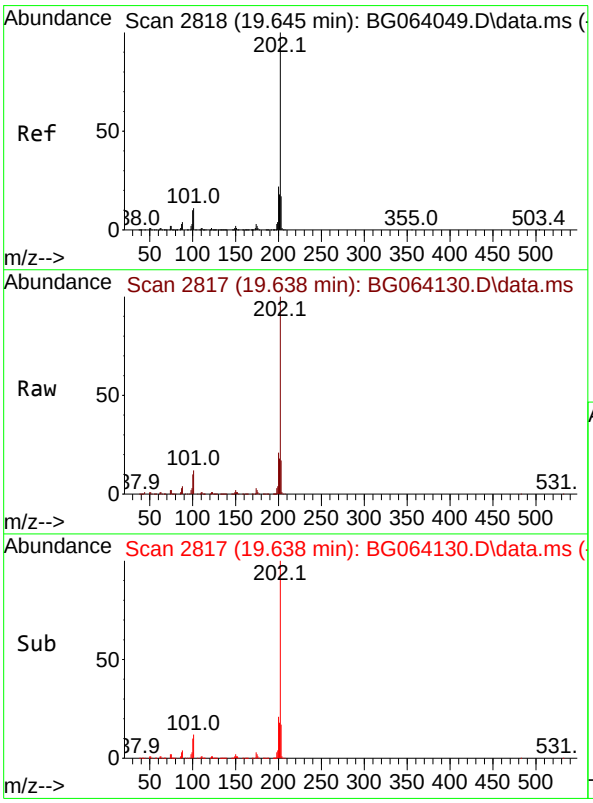
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	11.4	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

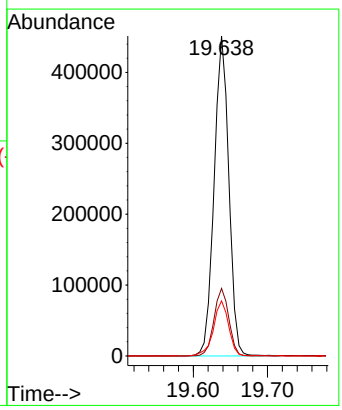
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

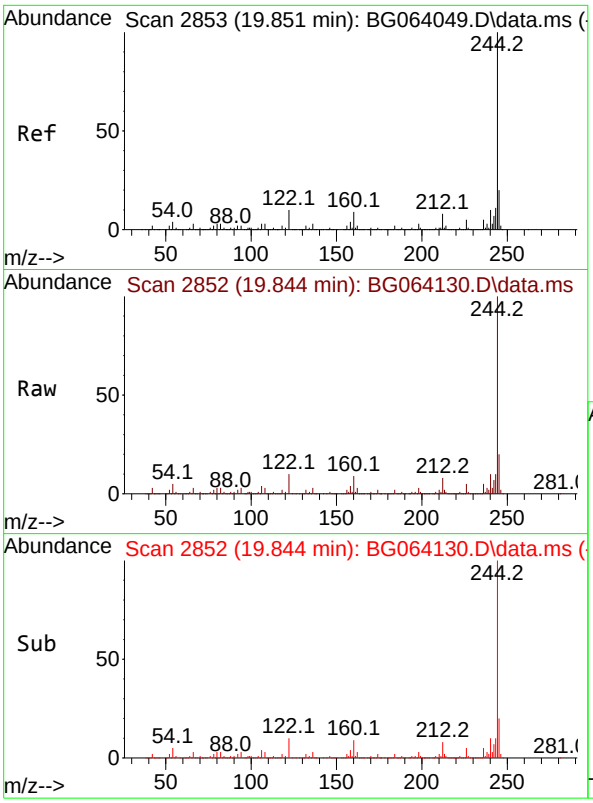


#78
Pyrene
Concen: 39.575 ng
RT: 19.638 min Scan# 2817
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:202 Resp: 621219

Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.3	25.9
203	17.2	13.6	20.4

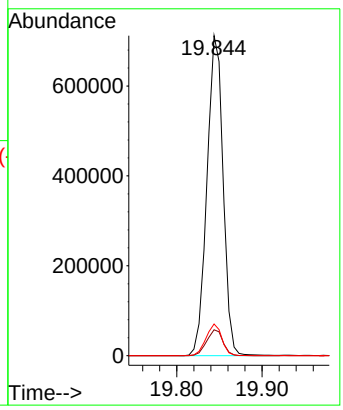




#79
Terphenyl-d14
Concen: 77.907 ng
RT: 19.844 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:244 Resp: 93824

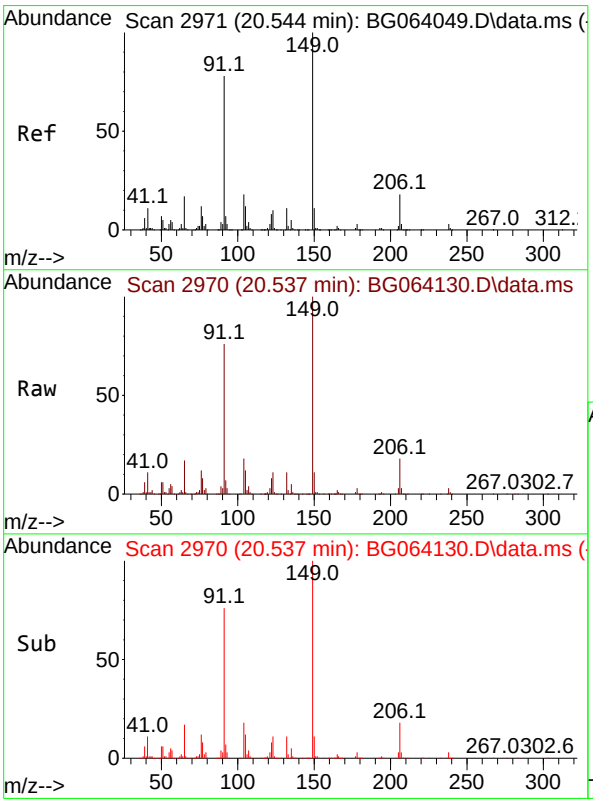
Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	9.9	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

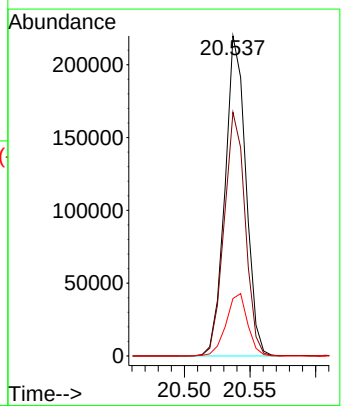
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

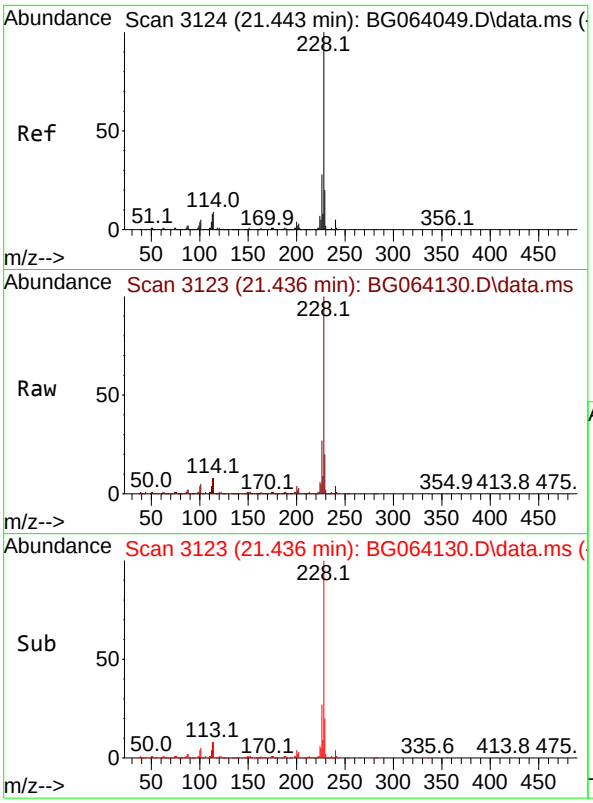


#80
Butylbenzylphthalate
Concen: 41.752 ng
RT: 20.537 min Scan# 2970
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 242915

Ion	Ratio	Lower	Upper
149	100		
91	76.2	62.0	93.0
206	17.9	14.6	21.8





#81
Benzo(a)anthracene
Concen: 39.594 ng
RT: 21.436 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

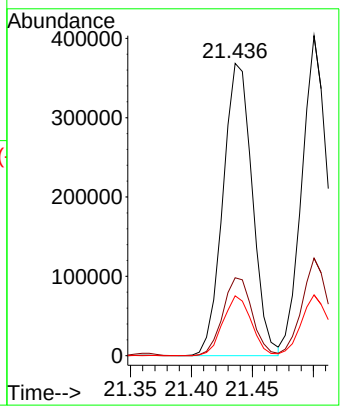
Tgt Ion:228 Resp: 61760

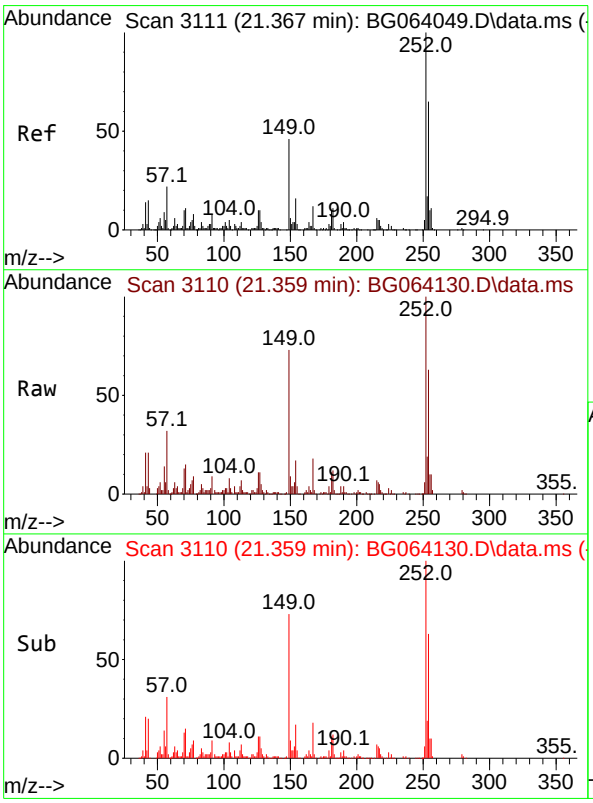
Ion	Ratio	Lower	Upper
228	100		
226	26.7	22.2	33.2
229	20.5	16.4	24.6

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

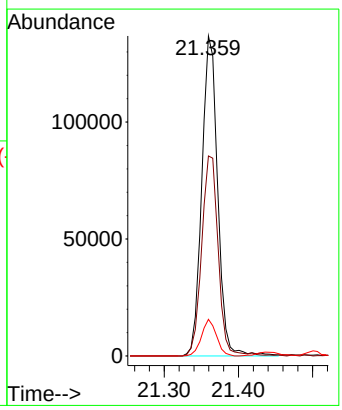


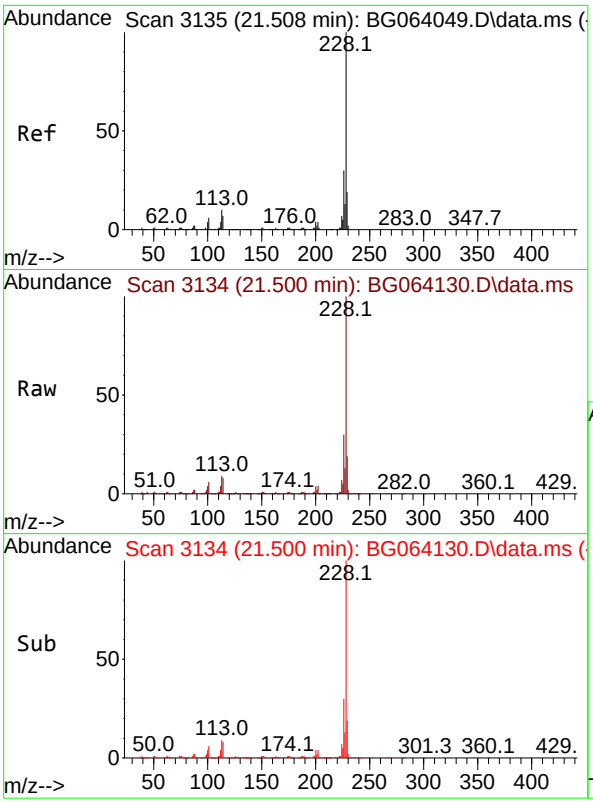


#82
3,3'-Dichlorobenzidine
Concen: 40.444 ng
RT: 21.359 min Scan# 3110
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:252 Resp: 204173

Ion	Ratio	Lower	Upper
252	100		
254	62.5	52.1	78.1
126	11.5	7.8	11.8

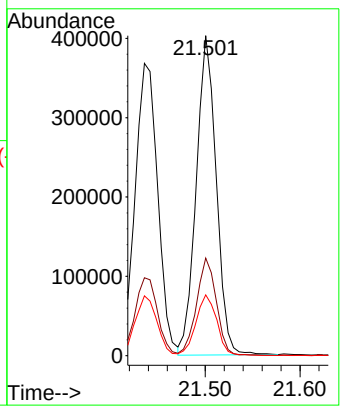




#83
Chrysene
Concen: 37.923 ng
RT: 21.500 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:228 Resp: 58998

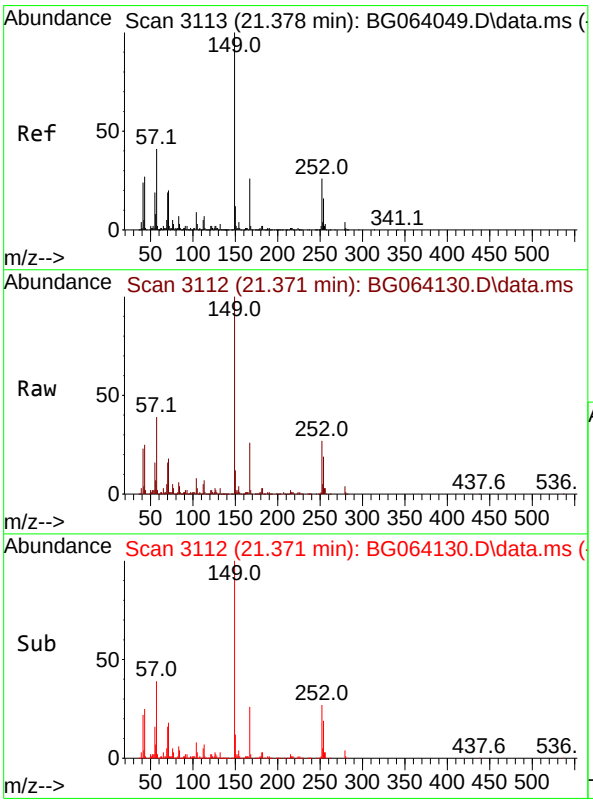
Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.9	35.9
229	19.0	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

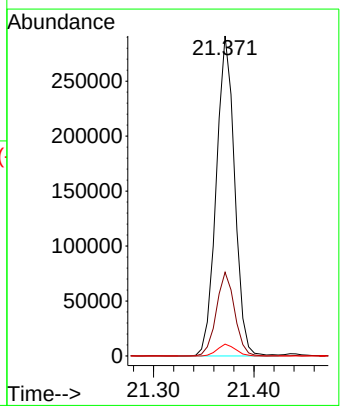
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

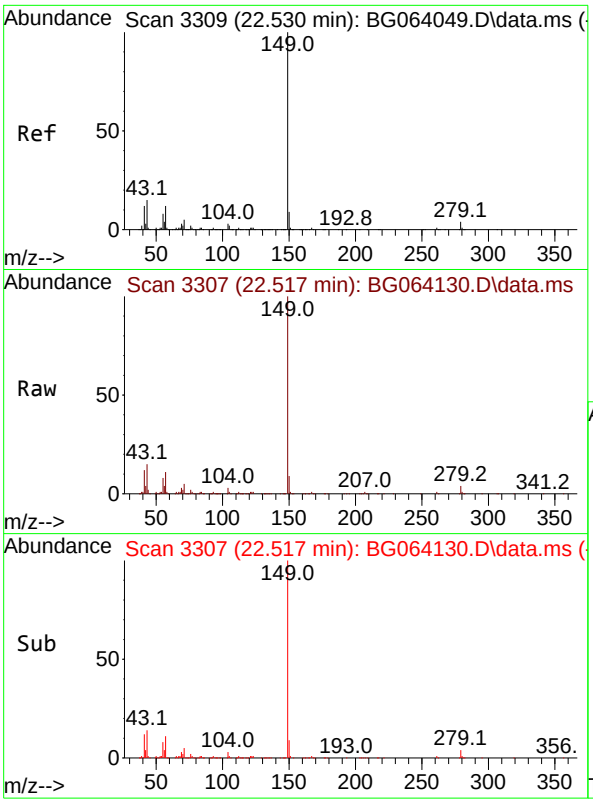


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.782 ng
RT: 21.371 min Scan# 3112
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:149 Resp: 369341

Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.0	31.6
279	3.7	2.8	4.2





#85
Di-n-octyl phthalate
Concen: 43.102 ng
RT: 22.517 min Scan# 3
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

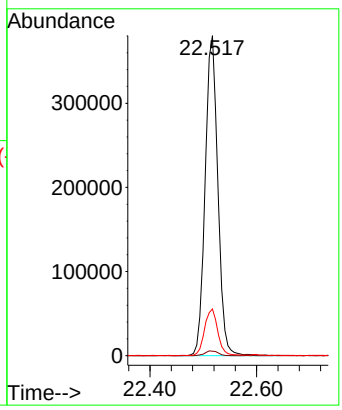
Tgt Ion:149 Resp: 62717

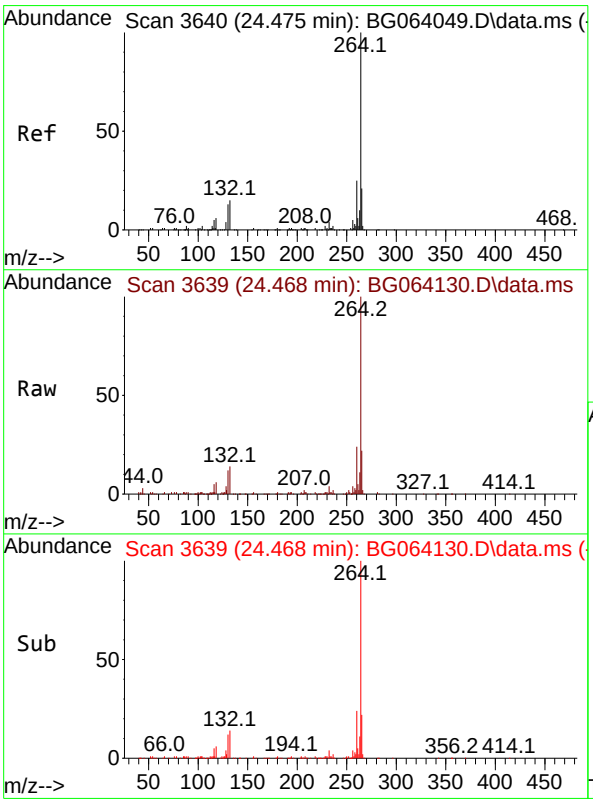
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	15.4	12.6	19.0

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

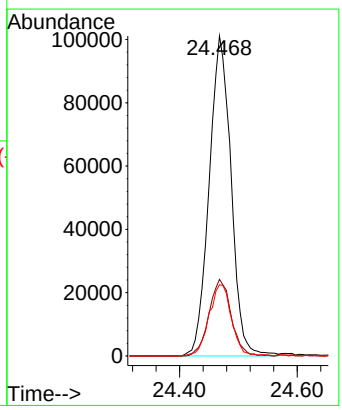


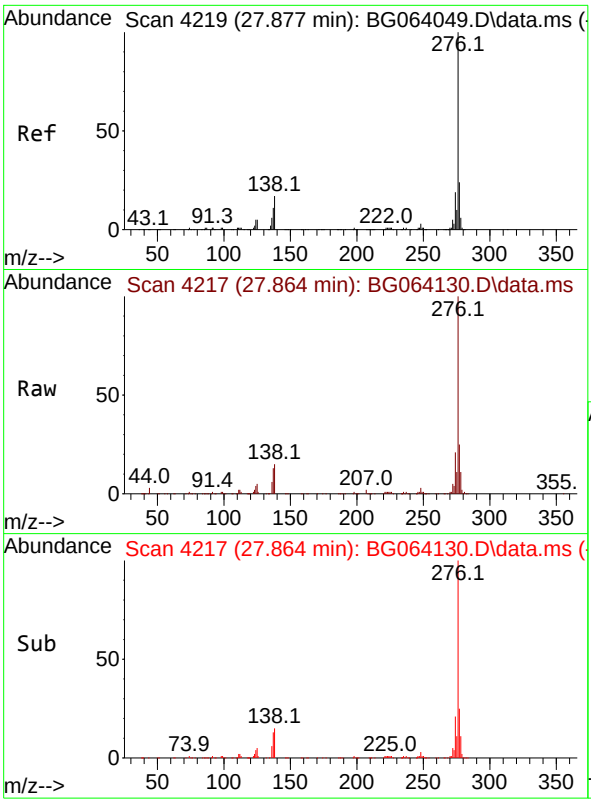


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3639
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:264 Resp: 261203

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.6	29.4
265	22.2	16.6	25.0

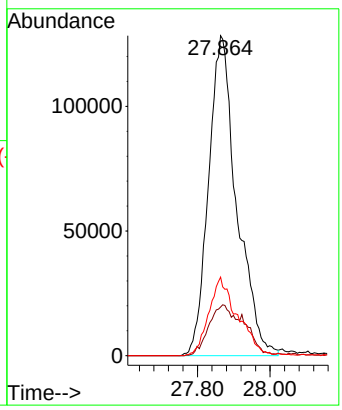




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.645 ng
RT: 27.864 min Scan# 4
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:276 Resp: 69285

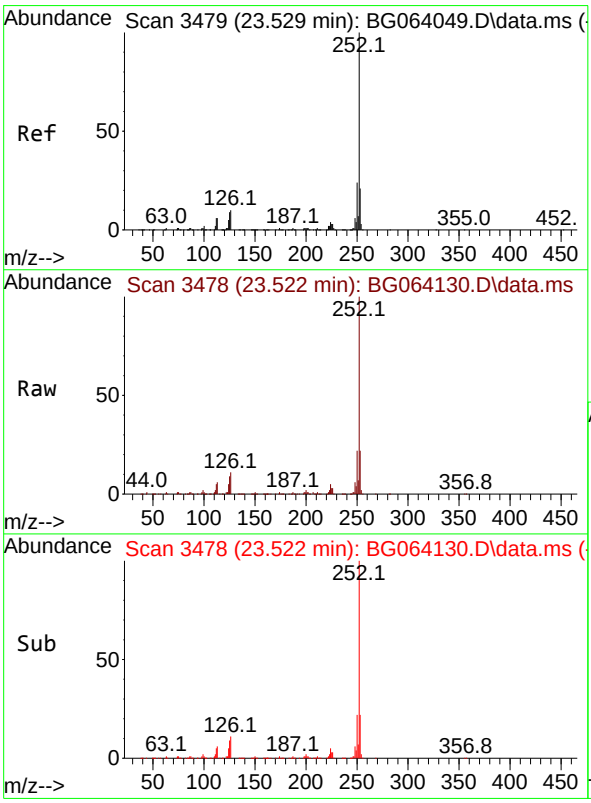
Ion	Ratio	Lower	Upper
276	100		
138	15.0	12.1	18.1
277	24.9	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

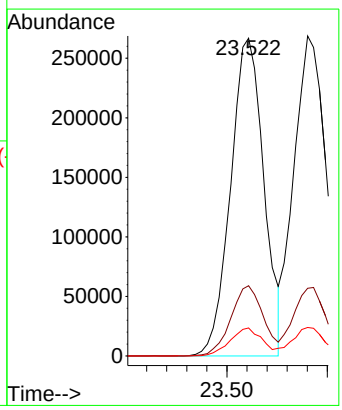
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

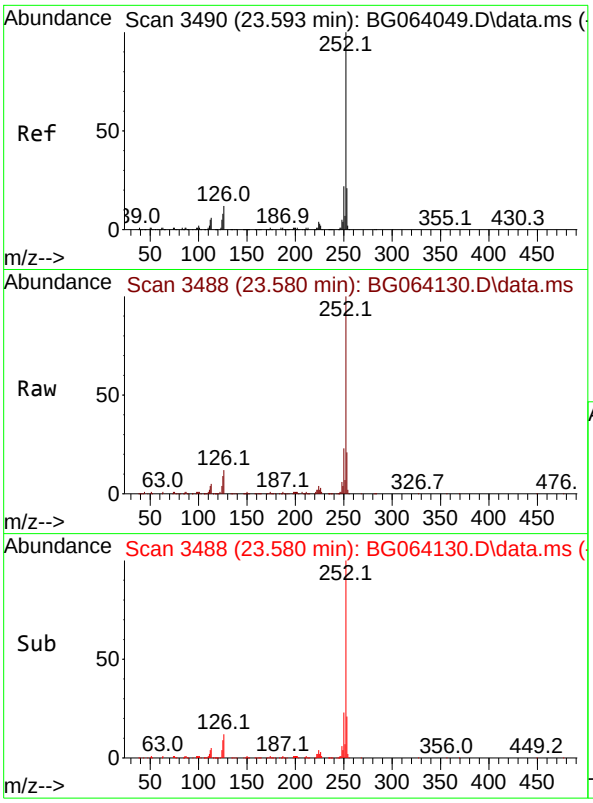


#88
Benzo(b)fluoranthene
Concen: 38.965 ng
RT: 23.522 min Scan# 3478
Delta R.T. -0.007 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:252 Resp: 615287

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.4
125	8.8	7.4	11.2

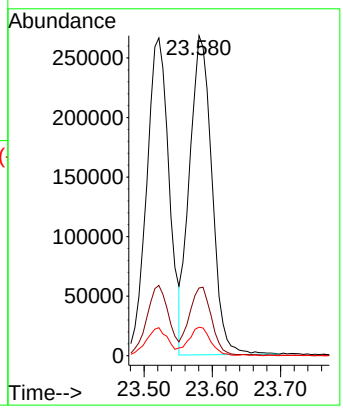




#89
Benzo(k)fluoranthene
Concen: 38.520 ng
RT: 23.580 min Scan# 34
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:252 Resp: 61020

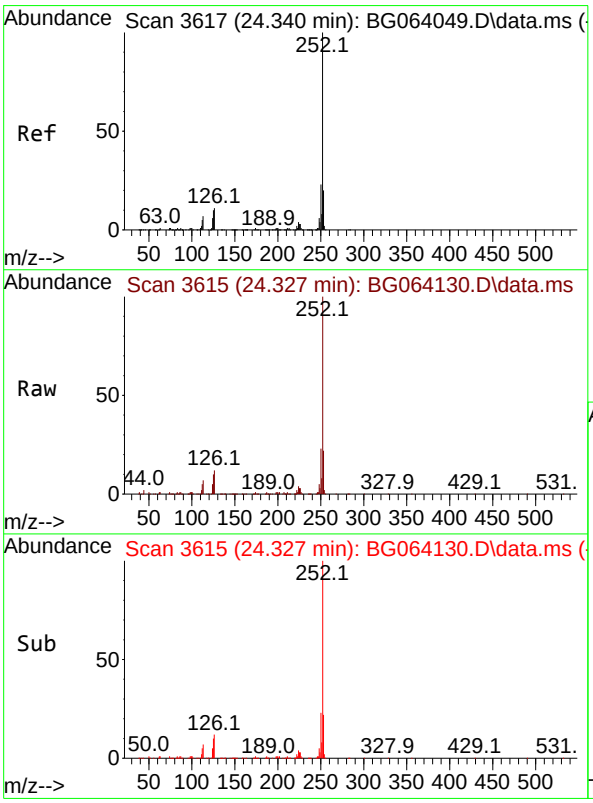
Ion	Ratio	Lower	Upper
252	100		
253	21.2	16.8	25.2
125	8.9	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

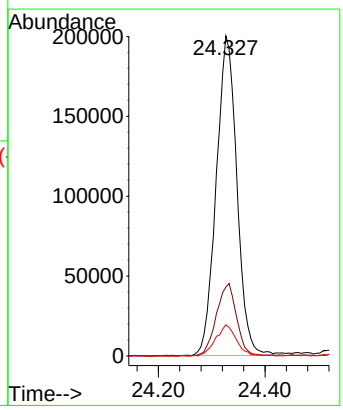
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

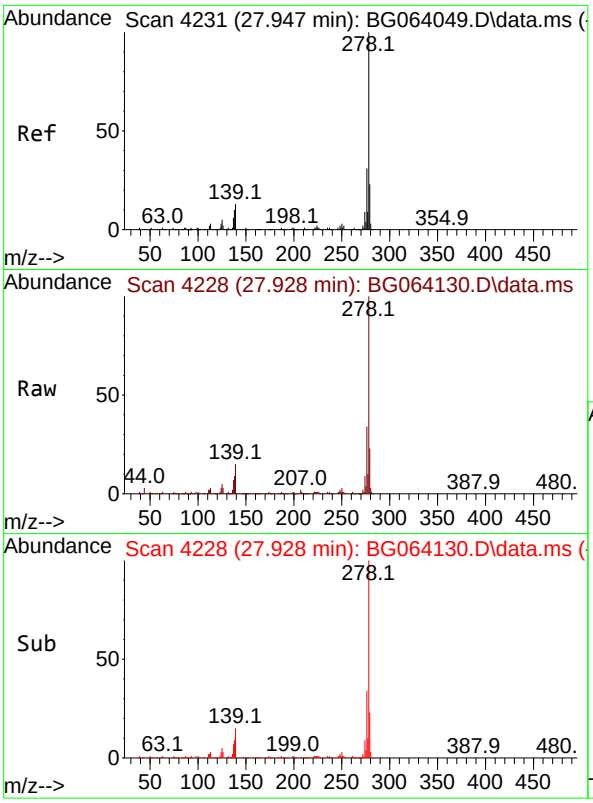


#90
Benzo(a)pyrene
Concen: 38.340 ng
RT: 24.327 min Scan# 3615
Delta R.T. -0.013 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:252 Resp: 539179

Ion	Ratio	Lower	Upper
252	100		
253	21.5	16.2	24.2
125	9.8	7.8	11.6

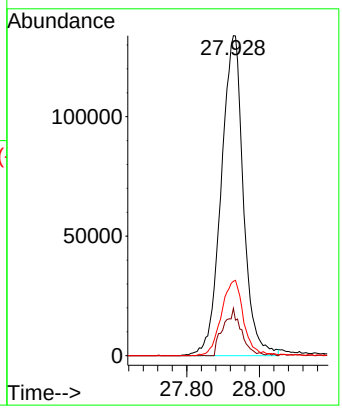




#91
Dibenzo(a,h)anthracene
Concen: 39.243 ng
RT: 27.928 min Scan# 4
Delta R.T. -0.019 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:278 Resp: 56857

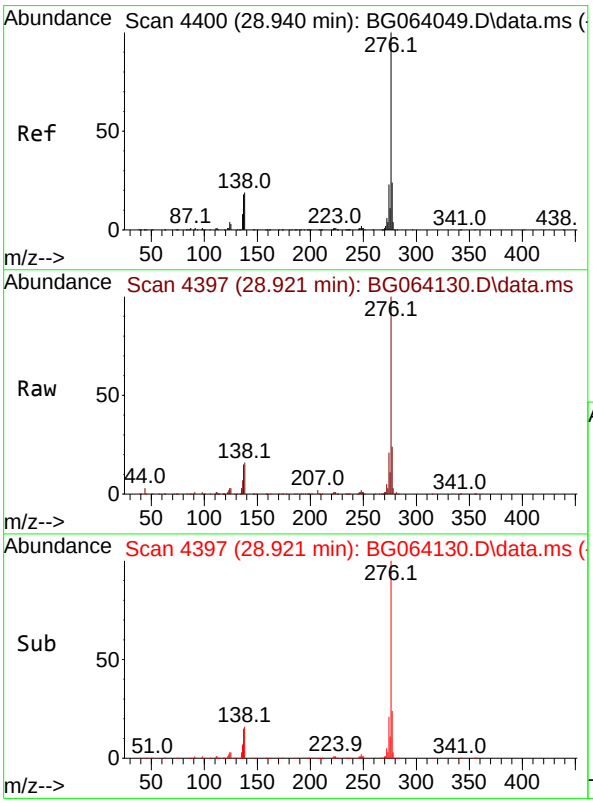
Ion	Ratio	Lower	Upper
278	100		
139	14.8	10.2	15.2
279	23.2	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

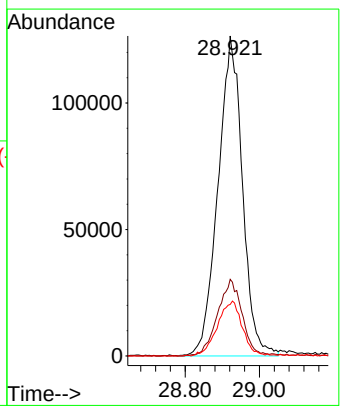
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#92
Benzo(g,h,i)perylene
Concen: 38.918 ng
RT: 28.921 min Scan# 4397
Delta R.T. -0.019 min
Lab File: BG064130.D
Acq: 1 Apr 2025 11:38

Tgt Ion:276 Resp: 578929

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.5	29.3
138	16.1	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
2		1,4-Dioxane	0.580	0.468	19.3	78	0.00
3		Pyridine	1.412	1.319	6.6	82	0.00
4		n-Nitrosodimethylamine	1.009	0.967	4.2	89	-0.01
5	S	2-Fluorophenol	1.281	1.136	11.3	82	0.00
6		Aniline	1.710	1.524	10.9	82	0.00
7	S	Phenol-d6	1.742	1.624	6.8	86	0.00
8		2-Chlorophenol	1.376	1.297	5.7	88	0.00
9		Benzaldehyde	1.013	0.896	11.5	87	0.00
10	C	Phenol	1.784	1.651	7.5	86	0.00
11		bis(2-Chloroethyl)ether	1.399	1.231	12.0	85	-0.01
12		1,3-Dichlorobenzene	1.511	1.366	9.6	86	0.00
13	C	1,4-Dichlorobenzene	1.548	1.380	10.9	85	0.00
14		1,2-Dichlorobenzene	1.493	1.344	10.0	86	0.00
15		Benzyl Alcohol	1.346	1.320	1.9	90	0.00
16		2,2'-oxybis(1-Chloropropane	3.145	2.751	12.5	82	0.00
17		2-Methylphenol	1.184	1.136	4.1	87	0.00
18		Hexachloroethane	0.542	0.539	0.6	91	0.00
19	P	n-Nitroso-di-n-propylamine	1.223	1.139	6.9	84	0.00
20		3+4-Methylphenols	1.630	1.557	4.5	89	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	94	0.00
22		Acetophenone	0.548	0.512	6.6	85	0.00
23	S	Nitrobenzene-d5	0.362	0.374	-3.3	91	0.00
24		Nitrobenzene	0.374	0.372	0.5	88	0.00
25		Isophorone	0.724	0.665	8.1	84	0.00
26	C	2-Nitrophenol	0.112	0.137	-22.3#	105	0.00
27		2,4-Dimethylphenol	0.217	0.214	1.4	88	0.00
28		bis(2-Chloroethoxy)methane	0.439	0.403	8.2	85	0.00
29	C	2,4-Dichlorophenol	0.274	0.284	-3.6	92	0.00
30		1,2,4-Trichlorobenzene	0.331	0.319	3.6	90	0.00
31		Naphthalene	1.078	1.053	2.3	91	0.00
32		Benzoic acid	0.170	0.203	-19.4	110	-0.02
33		4-Chloroaniline	0.394	0.403	-2.3	91	0.00
34	C	Hexachlorobutadiene	0.217	0.225	-3.7	96	0.00
35		Caprolactam	0.105	0.104	1.0	88	-0.01
36	C	4-Chloro-3-methylphenol	0.359	0.379	-5.6	95	0.00
37		2-Methylnaphthalene	0.761	0.785	-3.2	96	0.00
38		1-Methylnaphthalene	0.746	0.763	-2.3	95	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	0.571	0.548	4.0	96	0.00
41	P	Hexachlorocyclopentadiene	0.161	0.197	-22.4	115	0.00
42	S	2,4,6-Tribromophenol	0.222	0.244	-9.9	104	0.00
43	C	2,4,6-Trichlorophenol	0.337	0.344	-2.1	99	0.00
44		2,4,5-Trichlorophenol	0.374	0.383	-2.4	97	0.00
45	S	2-Fluorobiphenyl	1.318	1.245	5.5	93	0.00
46		1,1'-Biphenyl	1.511	1.476	2.3	98	0.00
47		2-Chloronaphthalene	1.102	1.056	4.2	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.318	0.373	-17.3	110	0.00
49		Acenaphthylene	1.743	1.682	3.5	96	0.00
50		Dimethylphthalate	1.476	1.392	5.7	94	0.00
51		2,6-Dinitrotoluene	0.261	0.299	-14.6	105	0.00
52	C	Acenaphthene	1.170	1.098	6.2	95	0.00
53		3-Nitroaniline	0.285	0.298	-4.6	97	0.00
54	P	2,4-Dinitrophenol	0.102	0.115	-12.7	118	0.00
55		Dibenzofuran	1.895	1.798	5.1	95	0.00
56	P	4-Nitrophenol	0.239	0.246	-2.9	98	0.00
57		2,4-Dinitrotoluene	0.357	0.410	-14.8	104	0.00
58		Fluorene	1.476	1.431	3.0	99	0.00
59		2,3,4,6-Tetrachlorophenol	0.365	0.377	-3.3	98	0.00
60		Diethylphthalate	1.603	1.511	5.7	93	0.00
61		4-Chlorophenyl-phenylether	0.733	0.710	3.1	99	0.00
62		4-Nitroaniline	0.308	0.323	-4.9	96	0.00
63		Azobenzene	1.710	1.555	9.1	91	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	97	0.00
65		4,6-Dinitro-2-methylphenol	0.076	0.092	-21.1	119	0.00
66	c	n-Nitrosodiphenylamine	0.566	0.565	0.2	94	0.00
67		4-Bromophenyl-phenylether	0.205	0.215	-4.9	99	0.00
68		Hexachlorobenzene	0.229	0.226	1.3	95	0.00
69		Atrazine	0.167	0.146	12.6	88	0.00
70	C	Pentachlorophenol	0.142	0.151	-6.3	98	0.00
71		Phenanthrene	1.067	1.025	3.9	92	0.00
72		Anthracene	1.061	1.054	0.7	94	0.00
73		Carbazole	0.990	0.950	4.0	89	0.00
74		Di-n-butylphthalate	1.166	1.160	0.5	89	0.00
75	C	Fluoranthene	1.286	1.207	6.1	88	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	89	0.00
77		Benzidine	0.277	0.382	-37.9#	109	0.00
78		Pyrene	1.289	1.276	1.0	87	0.00
79	S	Terphenyl-d14	0.989	0.963	2.6	86	0.00
80		Butylbenzylphthalate	0.423	0.499	-18.0	96	0.00
81		Benzo(a)anthracene	1.281	1.268	1.0	87	0.00
82		3,3'-Dichlorobenzidine	0.415	0.419	-1.0	83	0.00
83		Chrysene	1.278	1.211	5.2	83	0.00
84		Bis(2-ethylhexyl)phthalate	0.693	0.758	-9.4	89	0.00
85	c	Di-n-octyl phthalate	1.195	1.288	-7.8	93	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	1.338	1.326	0.9	87	-0.01
88		Benzo(b)fluoranthene	1.209	1.178	2.6	87	0.00
89		Benzo(k)fluoranthene	1.213	1.168	3.7	84	-0.01
90	C	Benzo(a)pyrene	1.077	1.032	4.2	84	-0.01
91		Dibenzo(a,h)anthracene	1.109	1.088	1.9	87	-0.02
92		Benzo(g,h,i)perylene	1.139	1.108	2.7	87	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	98	0.00
2		1,4-Dioxane	40.000	32.230	19.4	78	0.00
3		Pyridine	40.000	37.380	6.5	82	0.00
4		n-Nitrosodimethylamine	40.000	38.347	4.1	89	-0.01
5	S	2-Fluorophenol	80.000	70.963	11.3	82	0.00
6		Aniline	40.000	35.660	10.9	82	0.00
7	S	Phenol-d6	80.000	74.582	6.8	86	0.00
8		2-Chlorophenol	40.000	37.703	5.7	88	0.00
9		Benzaldehyde	40.000	35.384	11.5	87	0.00
10	C	Phenol	40.000	37.016	7.5	86	0.00
11		bis(2-Chloroethyl)ether	40.000	35.217	12.0	85	-0.01
12		1,3-Dichlorobenzene	40.000	36.166	9.6	86	0.00
13	C	1,4-Dichlorobenzene	40.000	35.654	10.9	85	0.00
14		1,2-Dichlorobenzene	40.000	35.998	10.0	86	0.00
15		Benzyl Alcohol	40.000	39.214	2.0	90	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	34.992	12.5	82	0.00
17		2-Methylphenol	40.000	38.379	4.1	87	0.00
18		Hexachloroethane	40.000	39.789	0.5	91	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	37.242	6.9	84	0.00
20		3+4-Methylphenols	40.000	38.209	4.5	89	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	94	0.00
22		Acetophenone	40.000	37.342	6.6	85	0.00
23	S	Nitrobenzene-d5	80.000	82.717	-3.4	91	0.00
24		Nitrobenzene	40.000	39.782	0.5	88	0.00
25		Isophorone	40.000	36.708	8.2	84	0.00
26	C	2-Nitrophenol	40.000	43.512	-8.8	105	0.00
27		2,4-Dimethylphenol	40.000	39.359	1.6	88	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.663	8.3	85	0.00
29	C	2,4-Dichlorophenol	40.000	41.418	-3.5	92	0.00
30		1,2,4-Trichlorobenzene	40.000	38.496	3.8	90	0.00
31		Naphthalene	40.000	39.038	2.4	91	0.00
32		Benzoic acid	40.000	42.046	-5.1	110	-0.02
33		4-Chloroaniline	40.000	40.936	-2.3	91	0.00
34	C	Hexachlorobutadiene	40.000	41.481	-3.7	96	0.00
35		Caprolactam	40.000	39.482	1.3	88	-0.01
36	C	4-Chloro-3-methylphenol	40.000	42.191	-5.5	95	0.00
37		2-Methylnaphthalene	40.000	41.231	-3.1	96	0.00
38		1-Methylnaphthalene	40.000	40.916	-2.3	95	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	103	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.365	4.1	96	0.00
41	P	Hexachlorocyclopentadiene	40.000	48.959	-22.4	115	0.00
42	S	2,4,6-Tribromophenol	80.000	87.719	-9.6	104	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.932	-2.3	99	0.00
44		2,4,5-Trichlorophenol	40.000	40.950	-2.4	97	0.00
45	S	2-Fluorobiphenyl	80.000	75.620	5.5	93	0.00
46		1,1'-Biphenyl	40.000	39.084	2.3	98	0.00
47		2-Chloronaphthalene	40.000	38.334	4.2	96	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	41.926	-4.8	110	0.00
49		Acenaphthylene	40.000	38.588	3.5	96	0.00
50		Dimethylphthalate	40.000	37.720	5.7	94	0.00
51		2,6-Dinitrotoluene	40.000	40.502	-1.3	105	0.00
52	C	Acenaphthene	40.000	37.546	6.1	95	0.00
53		3-Nitroaniline	40.000	41.772	-4.4	97	0.00
54	P	2,4-Dinitrophenol	40.000	41.200	-3.0	118	0.00
55		Dibenzofuran	40.000	37.949	5.1	95	0.00
56	P	4-Nitrophenol	40.000	41.052	-2.6	98	0.00
57		2,4-Dinitrotoluene	40.000	40.317	-0.8	104	0.00
58		Fluorene	40.000	38.780	3.0	99	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	41.360	-3.4	98	0.00
60		Diethylphthalate	40.000	37.699	5.8	93	0.00
61		4-Chlorophenyl-phenylether	40.000	38.708	3.2	99	0.00
62		4-Nitroaniline	40.000	41.984	-5.0	96	0.00
63		Azobenzene	40.000	36.371	9.1	91	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	97	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.534	-8.8	119	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.898	0.3	94	0.00
67		4-Bromophenyl-phenylether	40.000	41.896	-4.7	99	0.00
68		Hexachlorobenzene	40.000	39.358	1.6	95	0.00
69		Atrazine	40.000	34.958	12.6	88	0.00
70	C	Pentachlorophenol	40.000	42.485	-6.2	98	0.00
71		Phenanthrene	40.000	38.446	3.9	92	0.00
72		Anthracene	40.000	39.748	0.6	94	0.00
73		Carbazole	40.000	38.352	4.1	89	0.00
74		Di-n-butylphthalate	40.000	39.790	0.5	89	0.00
75	C	Fluoranthene	40.000	37.548	6.1	88	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	89	0.00
77		Benzidine	40.000	55.118	-37.8#	109	0.00
78		Pyrene	40.000	39.575	1.1	87	0.00
79	S	Terphenyl-d14	80.000	77.907	2.6	86	0.00
80		Butylbenzylphthalate	40.000	41.752	-4.4	96	0.00
81		Benzo(a)anthracene	40.000	39.594	1.0	87	0.00
82		3,3'-Dichlorobenzidine	40.000	40.444	-1.1	83	0.00
83		Chrysene	40.000	37.923	5.2	83	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	43.782	-9.5	89	0.00
85	c	Di-n-octyl phthalate	40.000	43.102	-7.8	93	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	90	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.645	0.9	87	-0.01
88		Benzo(b)fluoranthene	40.000	38.965	2.6	87	0.00
89		Benzo(k)fluoranthene	40.000	38.520	3.7	84	-0.01
90	C	Benzo(a)pyrene	40.000	38.340	4.1	84	-0.01
91		Dibenzo(a,h)anthracene	40.000	39.243	1.9	87	-0.02
92		Benzo(g,h,i)perylene	40.000	38.918	2.7	87	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064130.D
Acq On : 1 Apr 2025 11:38
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 01 16:20:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

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

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA_G Calibration Date/Time: 04/03/2025 13:04

Lab File ID: BG064164.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.281	1.216		-5.1	
Benzaldehyde	1.013	0.930		-8.2	
Phenol-d6	1.742	1.737		-0.3	
Phenol	1.784	1.707		-4.3	20.0
bis(2-Chloroethyl)ether	1.399	1.271		-9.1	
2-Chlorophenol	1.376	1.358		-1.3	
2-Methylphenol	1.184	1.221		3.1	
2,2-oxybis(1-Chloropropane)	3.145	2.896		-7.9	
Acetophenone	0.548	0.522		-4.7	
3+4-Methylphenols	1.630	1.653		1.4	
n-Nitroso-di-n-propylamine	1.223	1.233	0.050	0.8	
Nitrobenzene-d5	0.362	0.386		6.6	
Hexachloroethane	0.542	0.568		4.8	
Nitrobenzene	0.374	0.395		5.6	
Isophorone	0.724	0.678		-6.4	
2-Nitrophenol	0.112	0.158		41.1	20.0
2,4-Dimethylphenol	0.217	0.222		2.3	
bis(2-Chloroethoxy)methane	0.439	0.418		-4.8	
2,4-Dichlorophenol	0.274	0.292		6.6	20.0
Naphthalene	1.078	1.071		-0.6	
4-Chloroaniline	0.394	0.399		1.3	
Hexachlorobutadiene	0.217	0.220		1.4	20.0
Caprolactam	0.105	0.111		5.7	
4-Chloro-3-methylphenol	0.359	0.397		10.6	20.0
2-Methylnaphthalene	0.761	0.798		4.9	
Hexachlorocyclopentadiene	0.161	0.224	0.050	39.1	
2,4,6-Trichlorophenol	0.337	0.362		7.4	20.0
2-Fluorobiphenyl	1.318	1.287		-2.4	
2,4,5-Trichlorophenol	0.374	0.411		9.9	
1,1-Biphenyl	1.511	1.451		-4.0	
2-Chloronaphthalene	1.102	1.045		-5.2	
2-Nitroaniline	0.318	0.396		24.5	
Dimethylphthalate	1.476	1.455		-1.4	
Acenaphthylene	1.743	1.673		-4.0	
2,6-Dinitrotoluene	0.261	0.309		18.4	
3-Nitroaniline	0.285	0.312		9.5	
Acenaphthene	1.170	1.118		-4.4	20.0
2,4-Dinitrophenol	0.102	0.153	0.050	50.0	
4-Nitrophenol	0.239	0.264	0.050	10.5	

Form VII SV-1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664

Instrument ID: BNA_G Calibration Date/Time: 04/03/2025 13:04

Lab File ID: BG064164.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.895	1.831		-3.4	
2,4-Dinitrotoluene	0.357	0.438		22.7	
Diethylphthalate	1.603	1.624		1.3	
4-Chlorophenyl-phenylether	0.733	0.722		-1.5	
Fluorene	1.476	1.455		-1.4	
4-Nitroaniline	0.308	0.341		10.7	
4,6-Dinitro-2-methylphenol	0.076	0.112		47.4	
n-Nitrosodiphenylamine	0.566	0.554		-2.1	20.0
2,4,6-Tribromophenol	0.222	0.261		17.6	
4-Bromophenyl-phenylether	0.205	0.211		2.9	
Hexachlorobenzene	0.229	0.230		0.4	
Atrazine	0.167	0.145		-13.2	
Pentachlorophenol	0.142	0.157		10.6	20.0
Phenanthrene	1.067	1.041		-2.4	
Anthracene	1.061	1.047		-1.3	
Carbazole	0.990	0.973		-1.7	
Di-n-butylphthalate	1.166	1.230		5.5	
Fluoranthene	1.286	1.246		-3.1	20.0
Pyrene	1.289	1.273		-1.2	
Terphenyl-d14	0.989	0.970		-1.9	
Butylbenzylphthalate	0.423	0.546		29.1	
3,3-Dichlorobenzidine	0.415	0.435		4.8	
Benzo(a)anthracene	1.281	1.251		-2.3	
Chrysene	1.278	1.204		-5.8	
Bis(2-ethylhexyl)phthalate	0.693	0.801		15.6	
Di-n-octyl phthalate	1.195	1.386		16.0	20.0
Benzo(b)fluoranthene	1.209	1.209		0.0	
Benzo(k)fluoranthene	1.213	1.121		-7.6	
Benzo(a)pyrene	1.077	1.056		-2.0	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.318		-1.5	
Dibenzo(a,h)anthracene	1.109	1.111		0.2	
Benzo(g,h,i)perylene	1.139	1.104		-3.1	
1,2,4,5-Tetrachlorobenzene	0.571	0.557		-2.5	
1,4-Dioxane	0.580	0.514		-11.4	20.0
2,3,4,6-Tetrachlorophenol	0.365	0.414		13.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.856	152	32960	20.000	ng		0.00
21) Naphthalene-d8	10.652	136	151982	20.000	ng		0.00
39) Acenaphthene-d10	14.483	164	113011	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	257861	20.000	ng		0.00
76) Chrysene-d12	21.457	240	259274	20.000	ng		0.00
86) Perylene-d12	24.471	264	274699	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.447	112	160341	75.960	ng		0.00
7) Phenol-d6	7.027	99	229007	79.749	ng		0.00
23) Nitrobenzene-d5	9.013	82	234949	85.429	ng		0.00
42) 2,4,6-Tribromophenol	15.970	330	117878	93.837	ng		0.00
45) 2-Fluorobiphenyl	13.108	172	581791	78.142	ng		0.00
79) Terphenyl-d14	19.847	244	1005500	78.416	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.367	88	33853	35.387	ng		98
3) Pyridine	3.755	79	81588	35.068	ng		96
4) n-Nitrosodimethylamine	3.672	42	61558	37.032	ng		90
6) Aniline	7.192	93	104630	37.132	ng		96
8) 2-Chlorophenol	7.427	128	89545	39.498	ng		97
9) Benzaldehyde	7.004	77	61316	36.714	ng		97
10) Phenol	7.051	94	112526	38.273	ng		97
11) bis(2-Chloroethyl)ether	7.286	93	83800	36.356	ng		98
12) 1,3-Dichlorobenzene	7.750	146	94134	37.811	ng		96
13) 1,4-Dichlorobenzene	7.897	146	95654	37.485	ng		97
14) 1,2-Dichlorobenzene	8.214	146	94758	38.510	ng		96
15) Benzyl Alcohol	8.097	79	95305	42.949	ng		88
16) 2,2'-oxybis(1-Chloropr...	8.390	45	190880	36.829	ng		99
17) 2-Methylphenol	8.296	107	80461	41.235	ng		94
18) Hexachloroethane	8.937	117	37444	41.940	ng		99
19) n-Nitroso-di-n-propyla...	8.661	70	81288	40.336	ng		99
20) 3+4-Methylphenols	8.625	107	108970	40.565	ng		93
22) Acetophenone	8.672	105	158820	38.113	ng		99
24) Nitrobenzene	9.054	77	120042	42.235	ng		97
25) Isophorone	9.577	82	206038	37.430	ng	#	97
26) 2-Nitrophenol	9.765	139	48005	48.689	ng		91
27) 2,4-Dimethylphenol	9.824	122	67506	40.907	ng		99
28) bis(2-Chloroethoxy)met...	10.059	93	127095	38.083	ng		96
29) 2,4-Dichlorophenol	10.294	162	88857	42.643	ng		96
30) 1,2,4-Trichlorobenzene	10.511	180	98879	39.309	ng		96
31) Naphthalene	10.699	128	325532	39.722	ng		99
32) Benzoic acid	9.965	122	76750m	50.168	ng		
33) 4-Chloroaniline	10.799	127	121235	40.475	ng		96
34) Hexachlorobutadiene	10.993	225	66897	40.574	ng		99
35) Caprolactam	11.569	113	33826	42.361	ng		89
36) 4-Chloro-3-methylphenol	11.927	107	120643	44.169	ng		99
37) 2-Methylnaphthalene	12.309	142	242629	41.937	ng		98
38) 1-Methylnaphthalene	12.527	142	238561	42.088	ng		95
40) 1,2,4,5-Tetrachloroben...	12.679	216	125862	39.010	ng		98
41) Hexachlorocyclopentadiene	12.662	237	50540	55.656	ng		98
43) 2,4,6-Trichlorophenol	12.914	196	81723	42.978	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.985	196	92850	43.945	ng		97
46) 1,1'-Biphenyl	13.320	154	328066	38.424	ng		99
47) 2-Chloronaphthalene	13.361	162	236288	37.945	ng		95
48) 2-Nitroaniline	13.561	65	89492	44.074	ng		97
49) Acenaphthylene	14.207	152	378041	38.382	ng		100
50) Dimethylphthalate	13.943	163	328899	39.426	ng		100
51) 2,6-Dinitrotoluene	14.060	165	69764	41.696	ng		96
52) Acenaphthene	14.548	154	252698	38.229	ng		97
53) 3-Nitroaniline	14.383	138	70451	43.696	ng		98
54) 2,4-Dinitrophenol	14.589	184	34525	51.990	ng	#	85
55) Dibenzofuran	14.883	168	413808	38.644	ng		97
56) 4-Nitrophenol	14.695	139	59592	44.070	ng		90
57) 2,4-Dinitrotoluene	14.847	165	98910	42.785	ng	#	95
58) Fluorene	15.535	166	328800	39.423	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.030	232	93492	45.389	ng		97
60) Diethylphthalate	15.312	149	367087	40.534	ng		98
61) 4-Chlorophenyl-phenyle...	15.529	204	163185	39.373	ng		93
62) 4-Nitroaniline	15.547	138	77114	44.300	ng		88
63) Azobenzene	15.817	77	369721	38.258	ng		99
65) 4,6-Dinitro-2-methylph...	15.611	198	57696	51.147	ng		94
66) n-Nitrosodiphenylamine	15.741	169	285532	39.119	ng		95
67) 4-Bromophenyl-phenylether	16.422	248	108942	41.251	ng		98
68) Hexachlorobenzene	16.534	284	118452	40.062	ng		96
69) Atrazine	16.686	200	74539	34.708	ng		96
70) Pentachlorophenol	16.874	266	80767	43.996	ng		96
71) Phenanthrene	17.268	178	536739	39.025	ng		99
72) Anthracene	17.356	178	539984	39.484	ng		99
73) Carbazole	17.627	167	501891	39.306	ng		99
74) Di-n-butylphthalate	18.196	149	634185	42.194	ng		100
75) Fluoranthene	19.278	202	642628	38.757	ng		97
77) Benzidine	19.460	184	181482	50.549	ng		99
78) Pyrene	19.642	202	659960	39.487	ng		99
80) Butylbenzylphthalate	20.535	149	283271	45.382	ng		98
81) Benzo(a)anthracene	21.440	228	648901	39.071	ng		99
82) 3,3'-Dichlorobenzidine	21.363	252	225362	41.927	ng		98
83) Chrysene	21.504	228	624492	37.700	ng		99
84) Bis(2-ethylhexyl)phtha...	21.369	149	415542	46.263	ng		99
85) Di-n-octyl phthalate	22.509	149	718709	46.390	ng		98
87) Indeno(1,2,3-cd)pyrene	27.867	276	723995	39.391	ng		98
88) Benzo(b)fluoranthene	23.520	252	664324	40.004	ng		99
89) Benzo(k)fluoranthene	23.590	252	615757	36.961	ng		99
90) Benzo(a)pyrene	24.330	252	580328	39.239	ng		98
91) Dibenzo(a,h)anthracene	27.932	278	610274	40.051	ng		99
92) Benzo(g,h,i)perylene	28.931	276	606526	38.770	ng		94

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

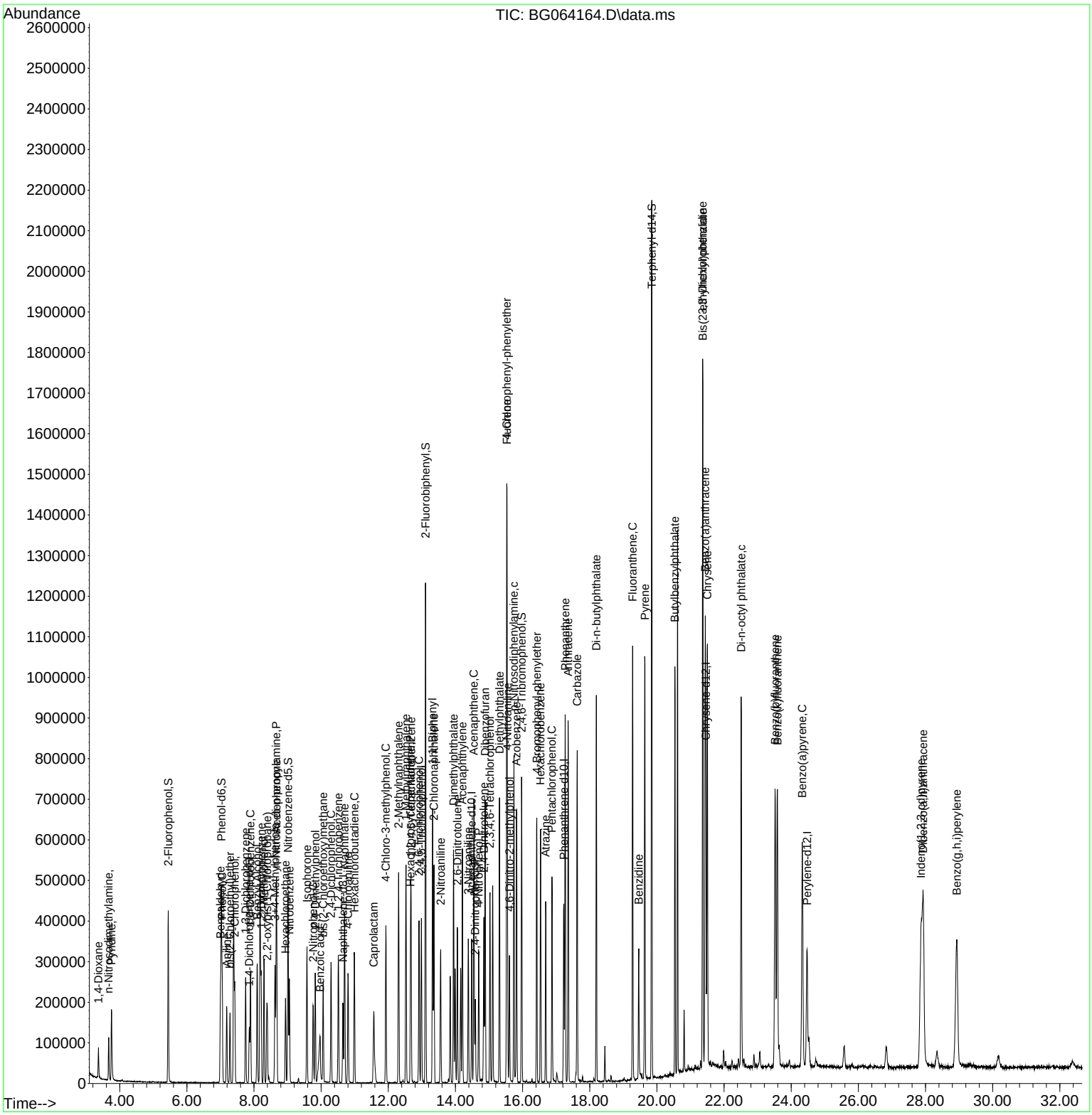
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

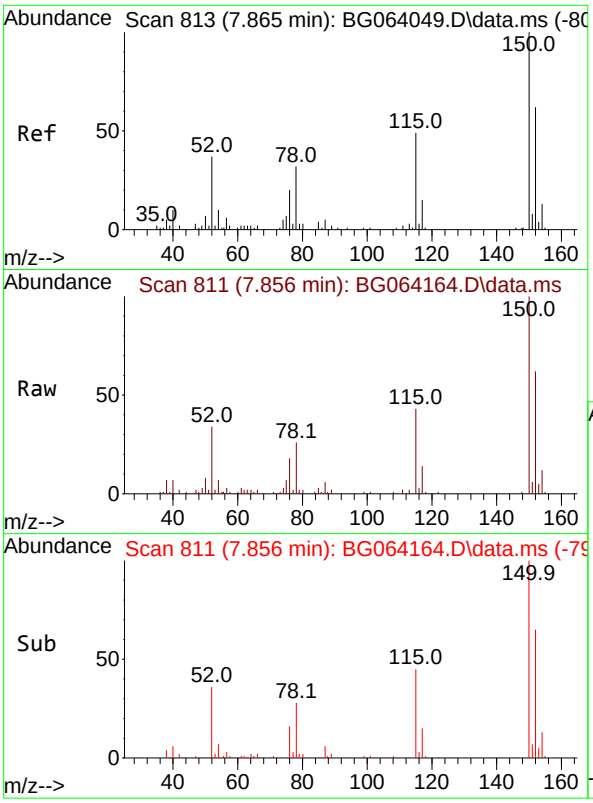
Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

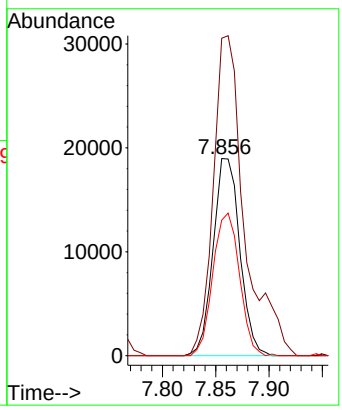




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.856 min Scan# 8
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:152 Resp: 3296

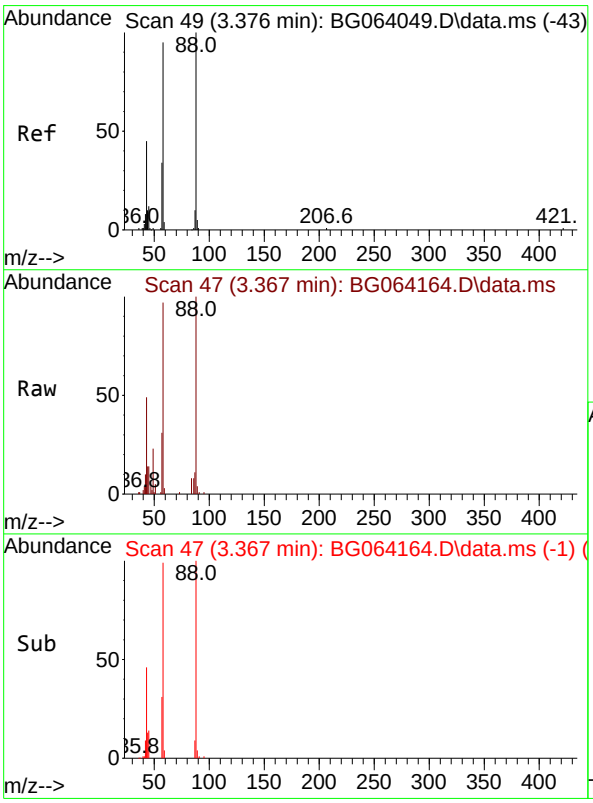
Ion	Ratio	Lower	Upper
152	100		
150	161.1	129.2	193.8
115	68.8	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

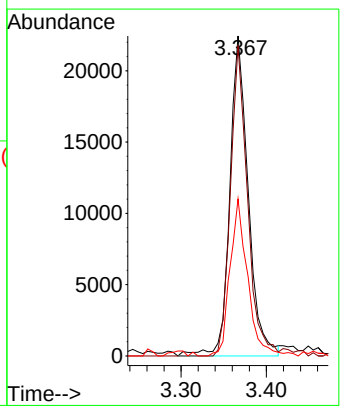
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

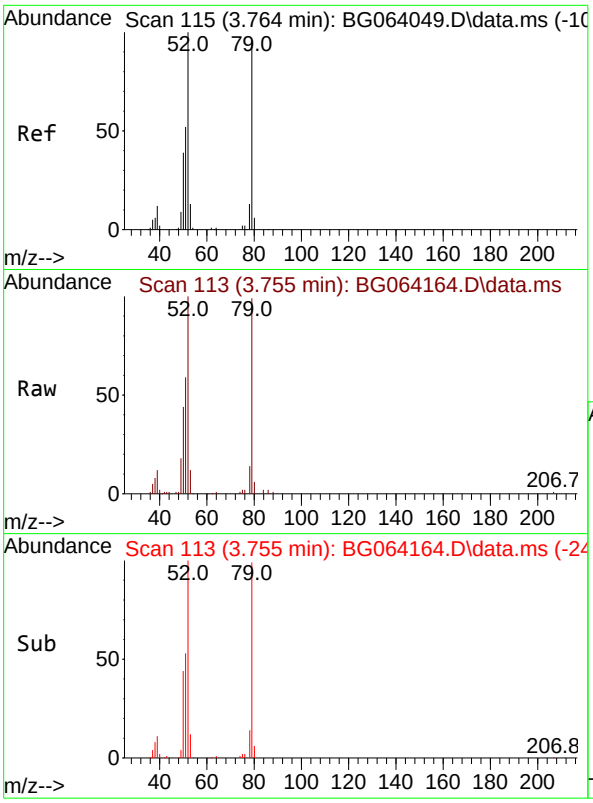


#2
1,4-Dioxane
Concen: 35.387 ng
RT: 3.367 min Scan# 47
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 88 Resp: 33853

Ion	Ratio	Lower	Upper
88	100		
58	91.7	74.6	111.8
43	47.0	35.5	53.3

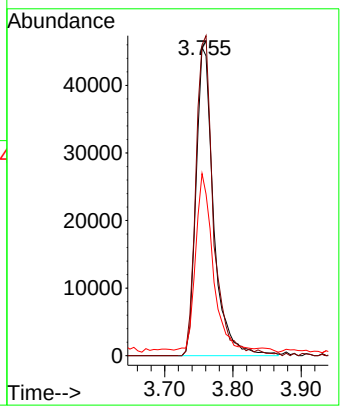




#3
Pyridine
Concen: 35.068 ng
RT: 3.755 min Scan# 11
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 79 Resp: 8158

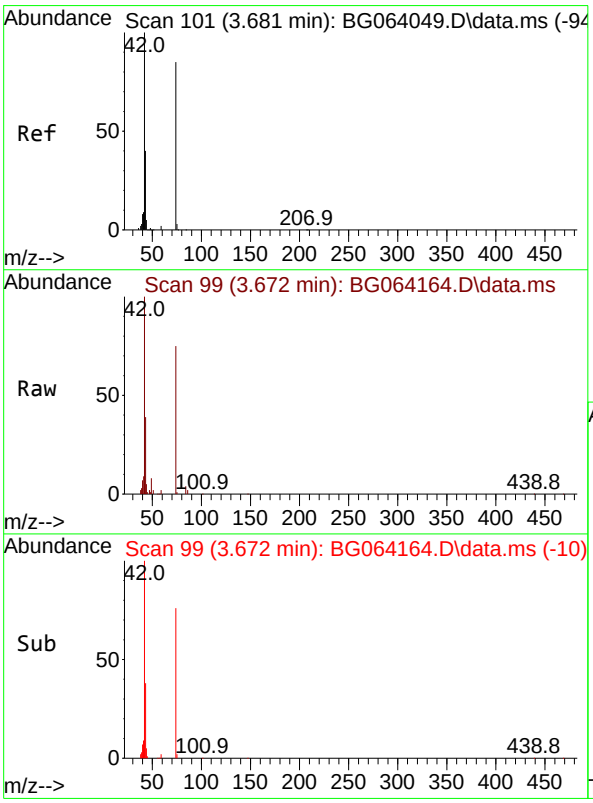
Ion	Ratio	Lower	Upper
79	100		
52	100.7	83.0	124.6
51	59.1	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

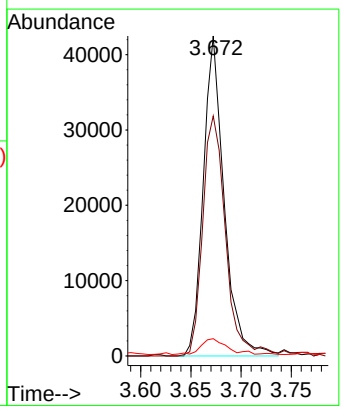
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

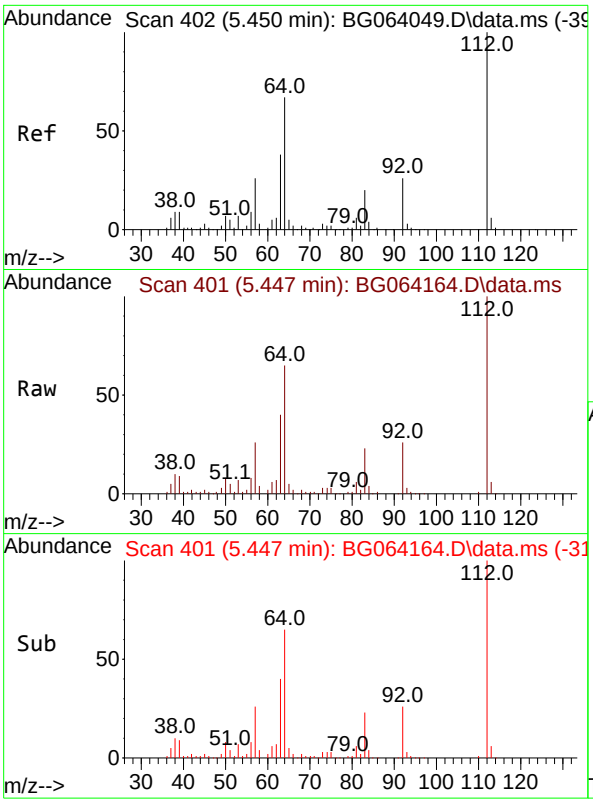


#4
n-Nitrosodimethylamine
Concen: 37.032 ng
RT: 3.672 min Scan# 99
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 42 Resp: 61558

Ion	Ratio	Lower	Upper
42	100		
74	75.0	68.0	102.0
44	5.4	4.9	7.3

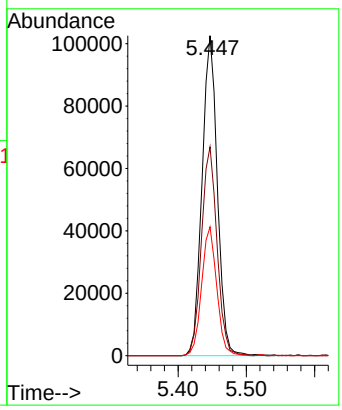




#5
2-Fluorophenol
Concen: 75.960 ng
RT: 5.447 min Scan# 4(
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:112 Resp: 16034

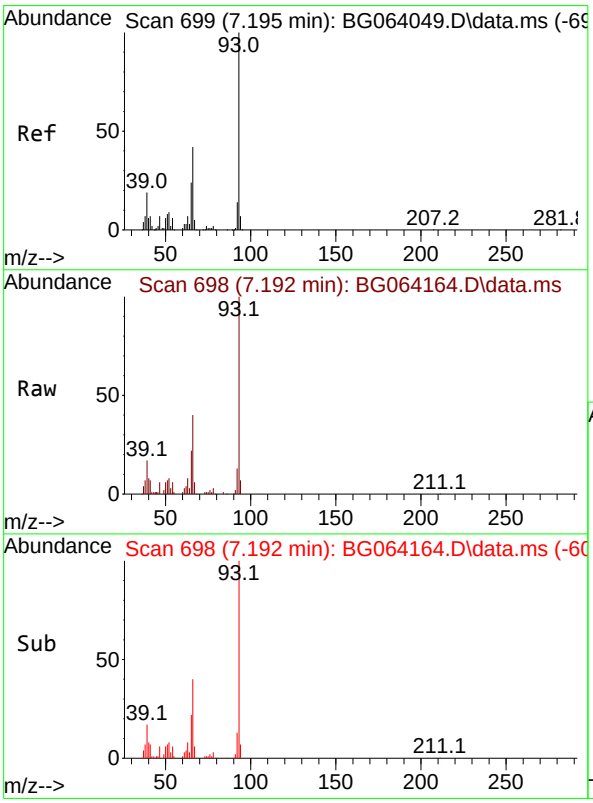
Ion	Ratio	Lower	Upper
112	100		
64	65.2	53.7	80.5
63	40.3	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

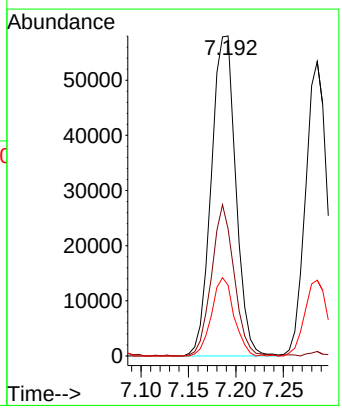
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

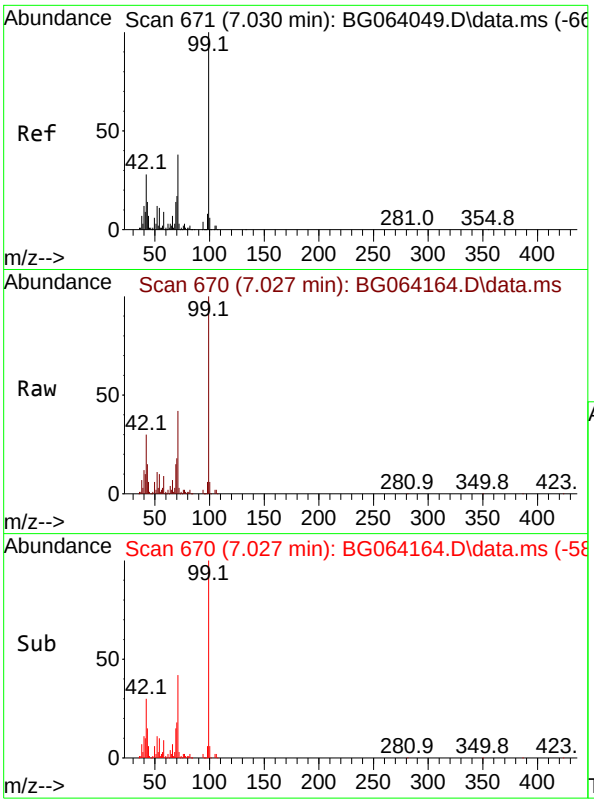


#6
Aniline
Concen: 37.132 ng
RT: 7.192 min Scan# 698
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 93 Resp: 104630

Ion	Ratio	Lower	Upper
93	100		
66	39.7	33.7	50.5
65	22.1	19.1	28.7

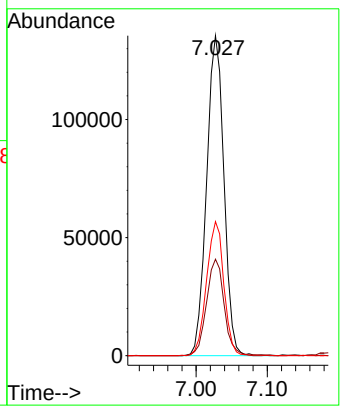




#7
Phenol-d6
Concen: 79.749 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 99 Resp: 22900

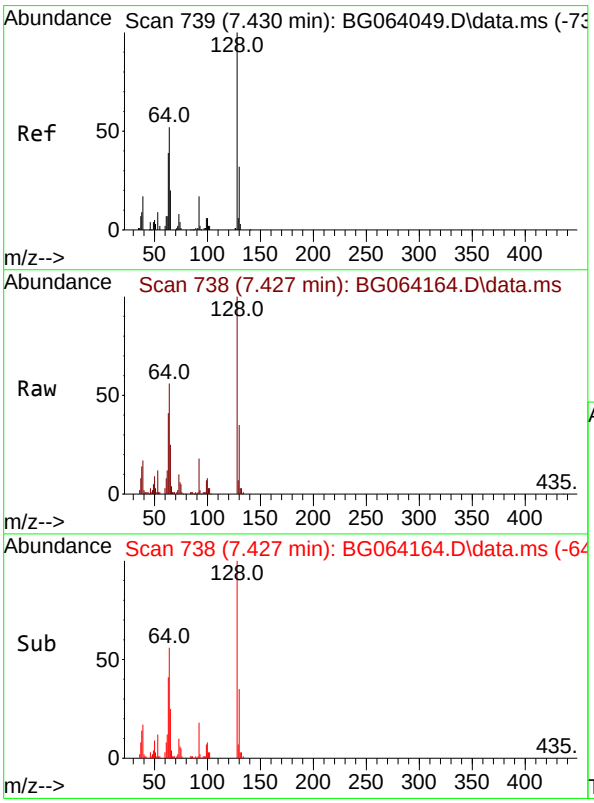
Ion	Ratio	Lower	Upper
99	100		
42	30.2	22.7	34.1
71	41.9	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

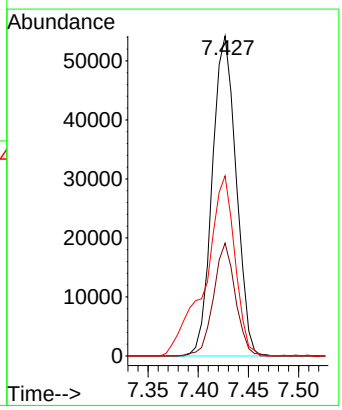
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

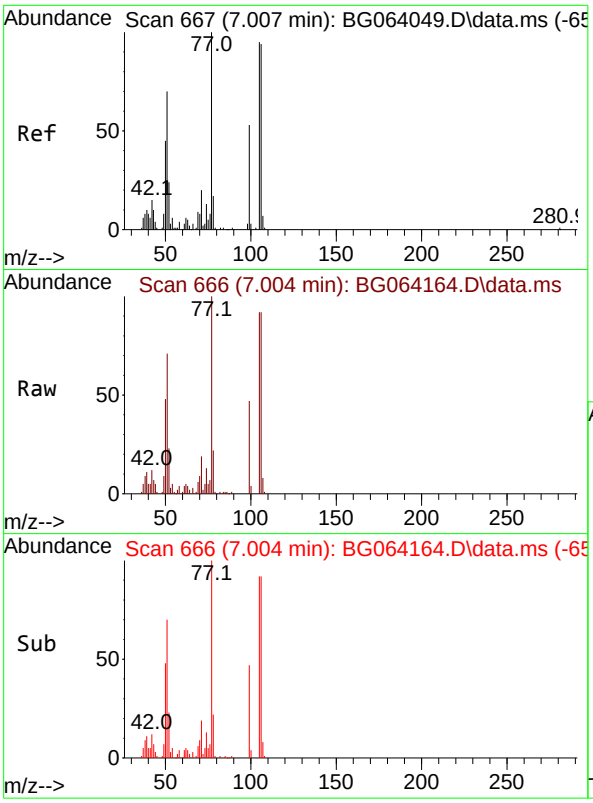


#8
2-Chlorophenol
Concen: 39.498 ng
RT: 7.427 min Scan# 738
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:128 Resp: 89545

Ion	Ratio	Lower	Upper
128	100		
130	35.3	12.3	52.3
64	56.3	37.0	77.0

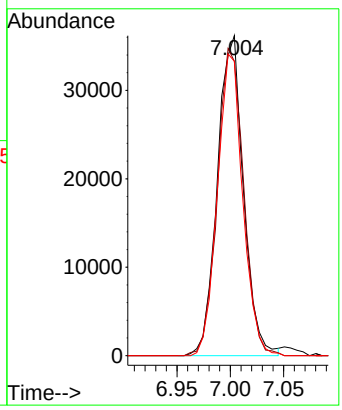




#9
Benzaldehyde
Concen: 36.714 ng
RT: 7.004 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 77 Resp: 6131

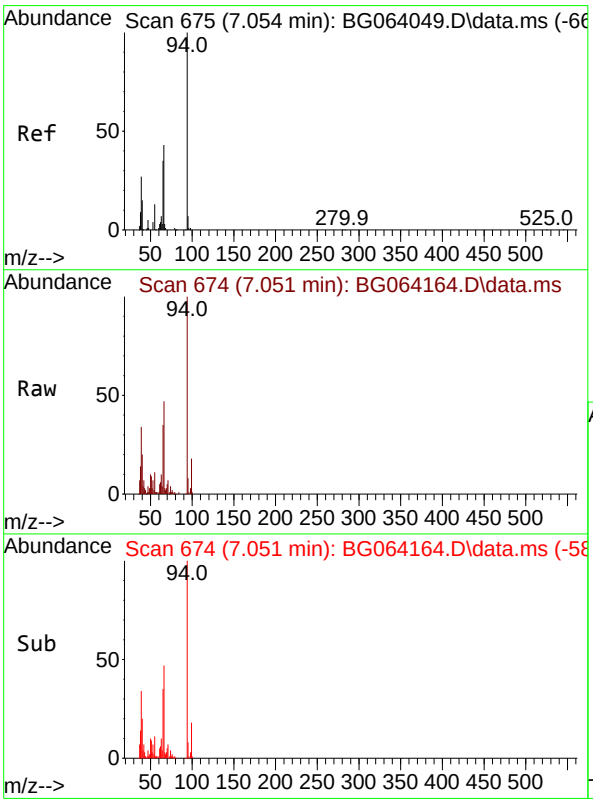
Ion	Ratio	Lower	Upper
77	100		
105	92.0	75.5	115.5
106	92.0	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

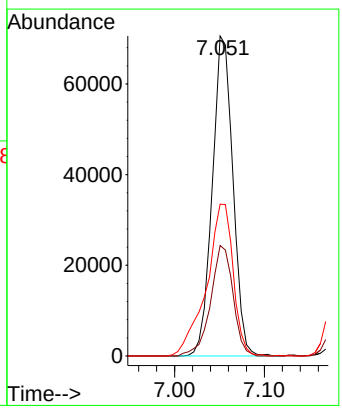
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

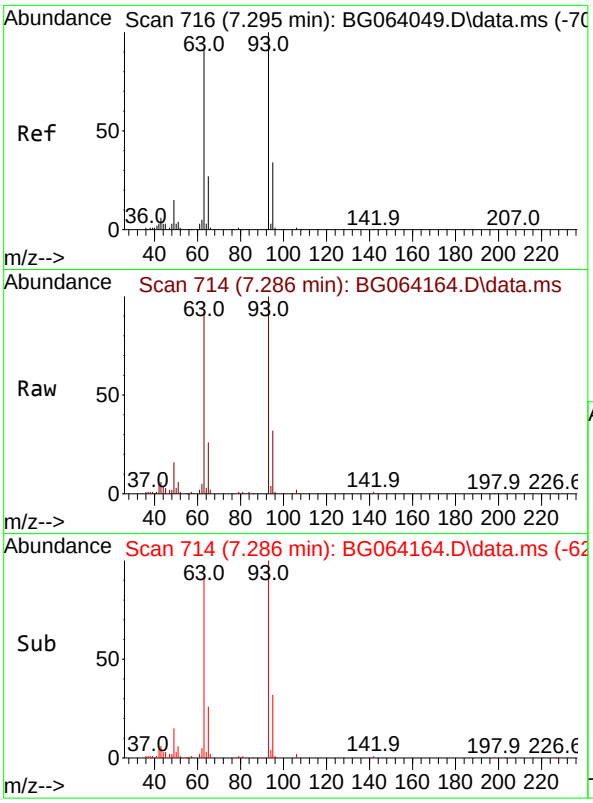


#10
Phenol
Concen: 38.273 ng
RT: 7.051 min Scan# 674
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 94 Resp: 112526

Ion	Ratio	Lower	Upper
94	100		
65	34.5	15.2	55.2
66	47.5	25.1	65.1

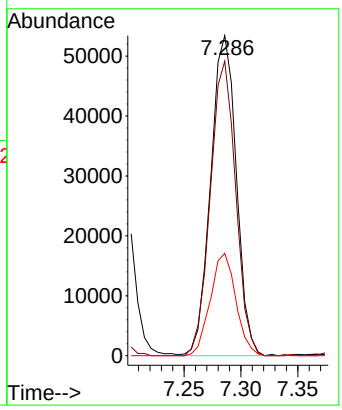




#11
bis(2-Chloroethyl)ether
Concen: 36.356 ng
RT: 7.286 min Scan# 7
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 93 Resp: 8380

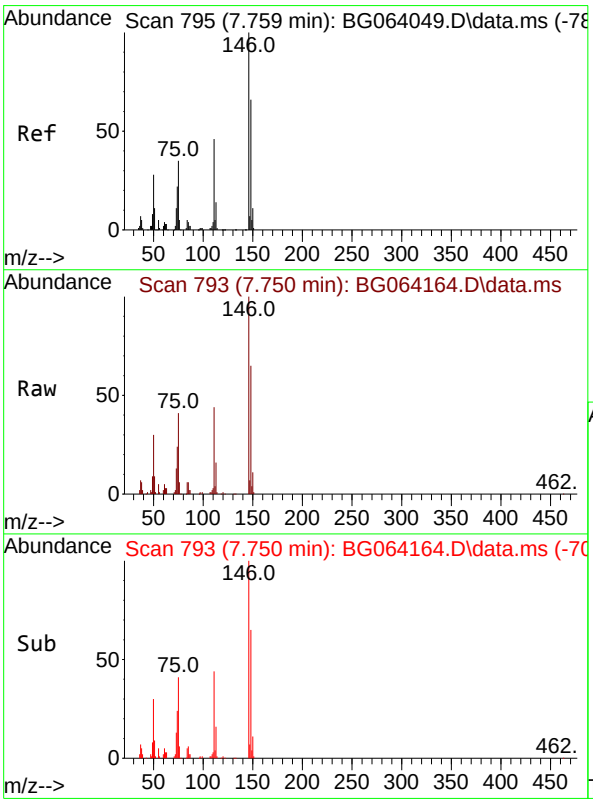
Ion	Ratio	Lower	Upper
93	100		
63	92.1	70.0	110.0
95	32.0	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

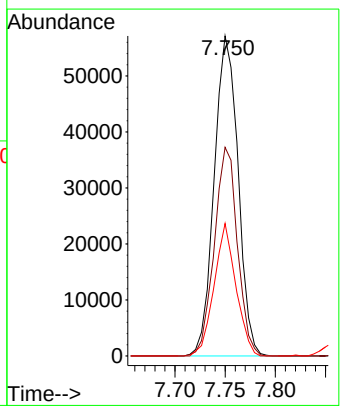
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

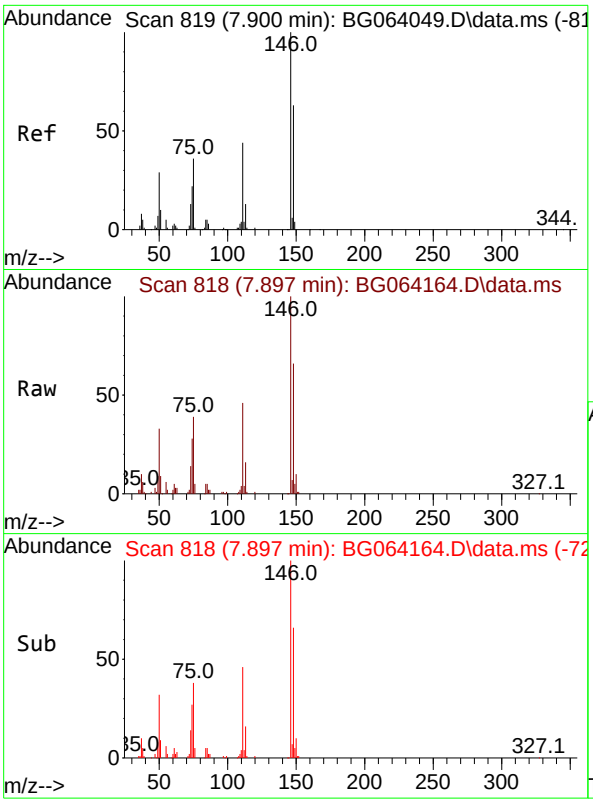


#12
1,3-Dichlorobenzene
Concen: 37.811 ng
RT: 7.750 min Scan# 793
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:146 Resp: 94134

Ion	Ratio	Lower	Upper
146	100		
148	65.2	52.6	78.8
75	41.4	28.1	42.1

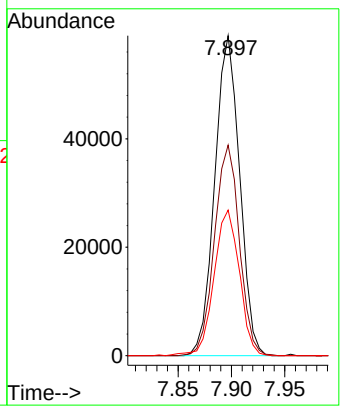




#13
1,4-Dichlorobenzene
Concen: 37.485 ng
RT: 7.897 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:146 Resp: 9565

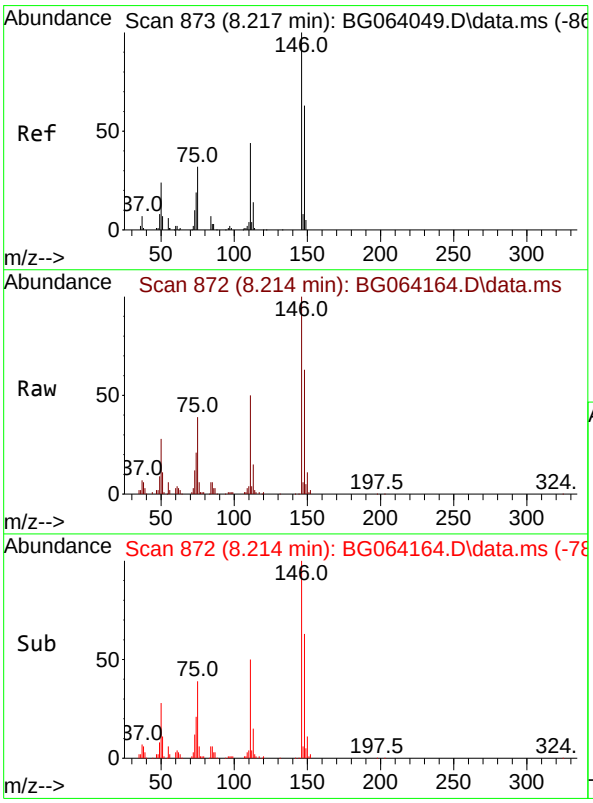
Ion	Ratio	Lower	Upper
146	100		
148	65.8	50.6	75.8
111	45.5	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

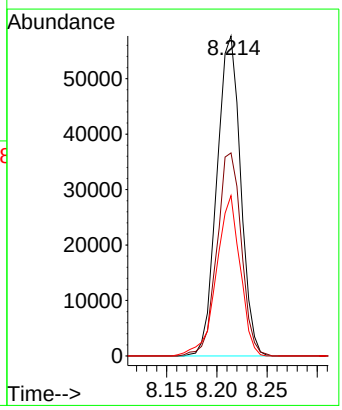
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

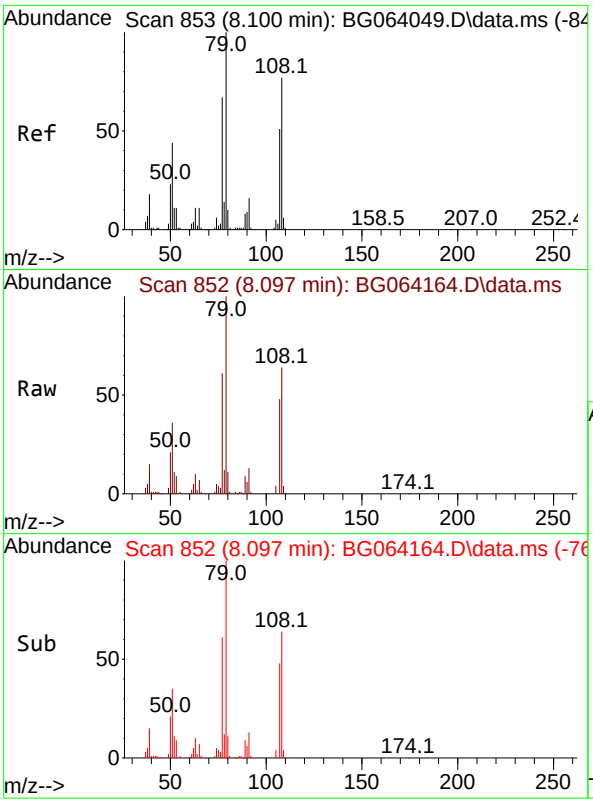


#14
1,2-Dichlorobenzene
Concen: 38.510 ng
RT: 8.214 min Scan# 872
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:146 Resp: 94758

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.2	75.2
111	50.1	36.4	54.6





#15
Benzyl Alcohol
Concen: 42.949 ng
RT: 8.097 min Scan# 8
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

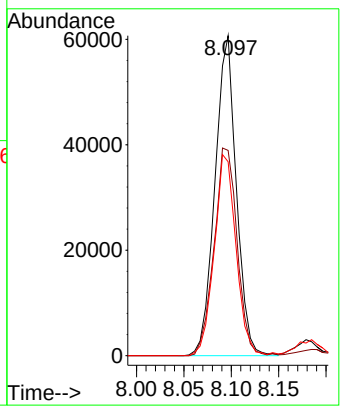
Tgt Ion: 79 Resp: 9530

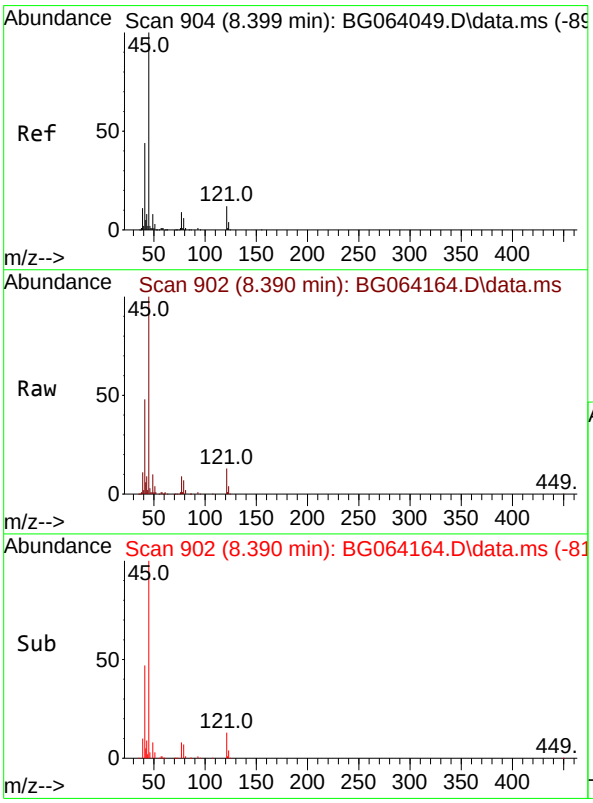
Ion	Ratio	Lower	Upper
79	100		
108	64.2	61.7	92.5
77	60.6	53.9	80.9

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

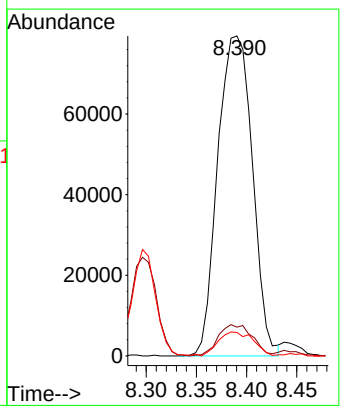


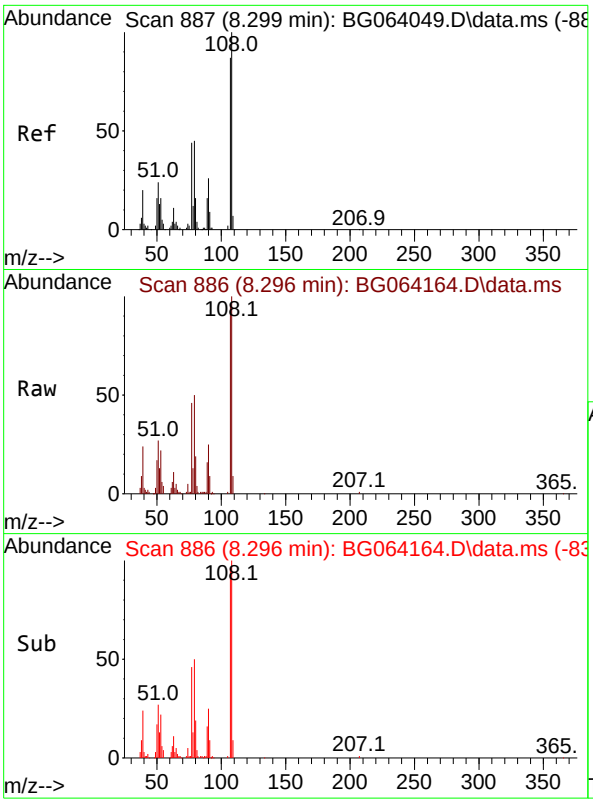


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.829 ng
RT: 8.390 min Scan# 902
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 45 Resp: 190880

Ion	Ratio	Lower	Upper
45	100		
77	9.0	0.0	29.0
79	7.4	0.0	26.6

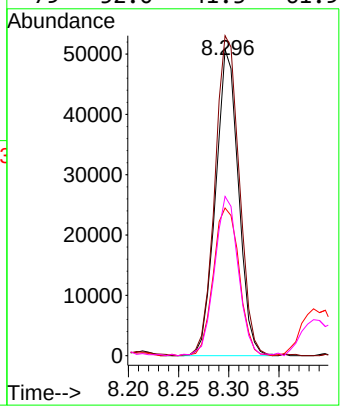




#17
2-Methylphenol
Concen: 41.235 ng
RT: 8.296 min Scan# 8
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:107 Resp: 8046

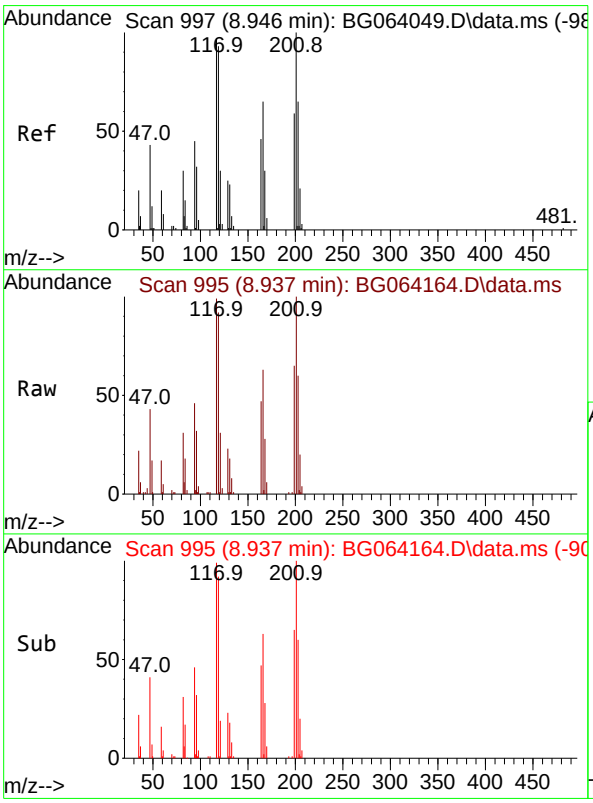
Ion	Ratio	Lower	Upper
107	100		
108	104.5	92.5	138.7
77	48.2	40.5	60.7
79	52.0	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

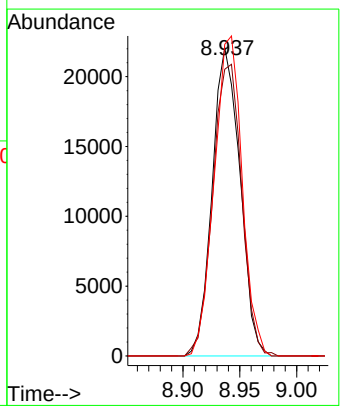
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

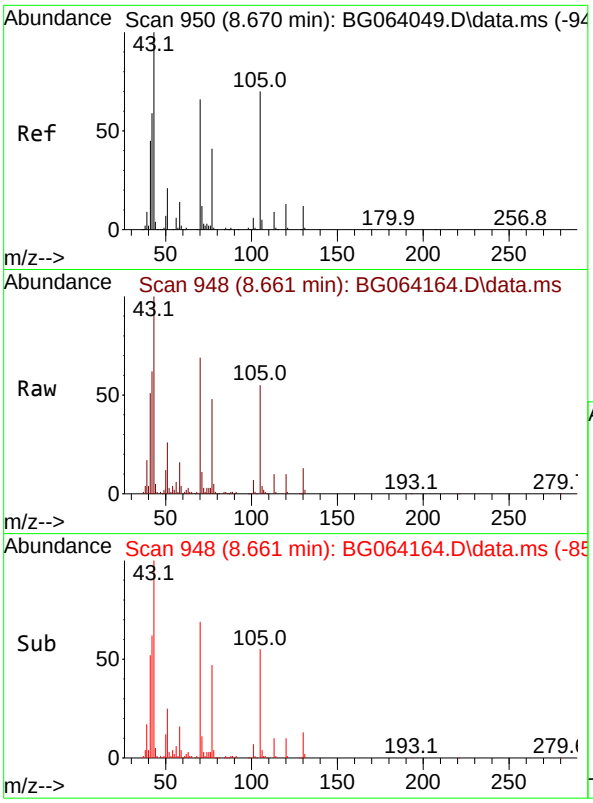


#18
Hexachloroethane
Concen: 41.940 ng
RT: 8.937 min Scan# 995
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:117 Resp: 37444

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.2	114.2
201	101.1	81.5	122.3

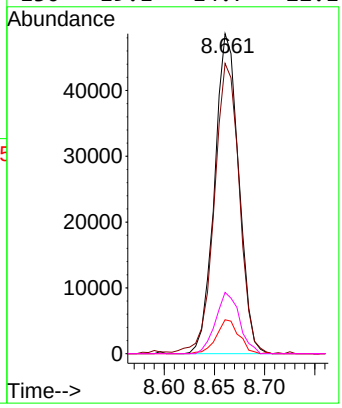




#19
n-Nitroso-di-n-propylamine
Concen: 40.336 ng
RT: 8.661 min Scan# 94
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 70 Resp: 8128

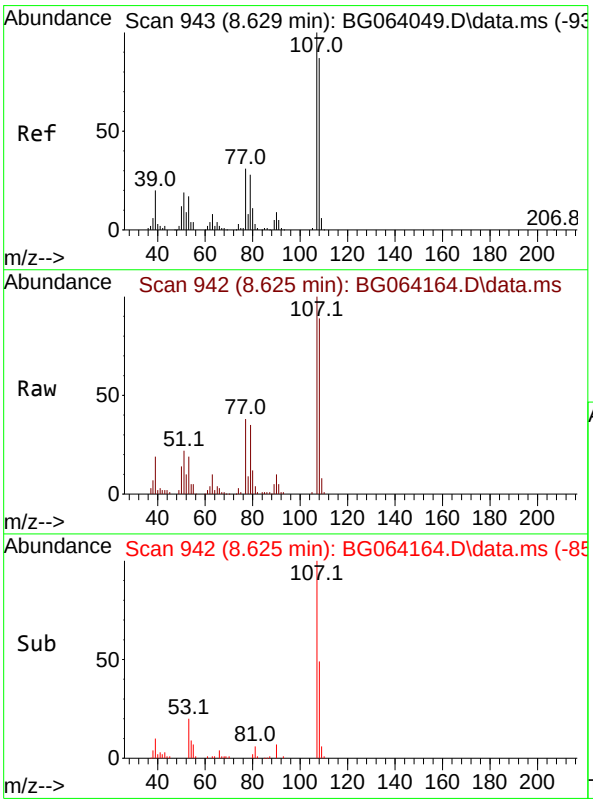
Ion	Ratio	Lower	Upper
70	100		
42	90.7	72.1	108.1
101	10.6	7.2	10.8
130	19.1	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

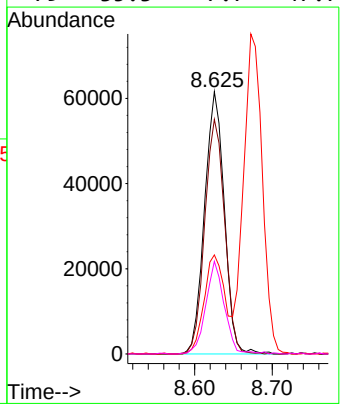
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

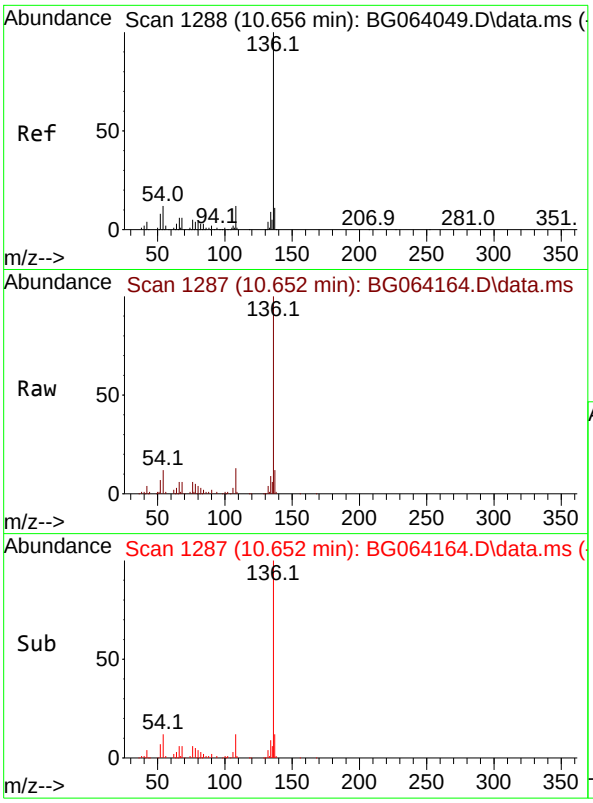


#20
3+4-Methylphenols
Concen: 40.565 ng
RT: 8.625 min Scan# 942
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:107 Resp: 108970

Ion	Ratio	Lower	Upper
107	100		
108	89.5	67.0	107.0
77	37.8	11.2	51.2
79	35.3	7.7	47.7

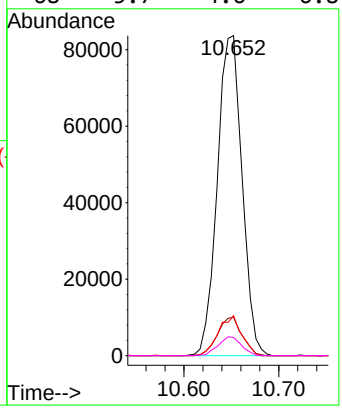




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:136 Resp: 15198

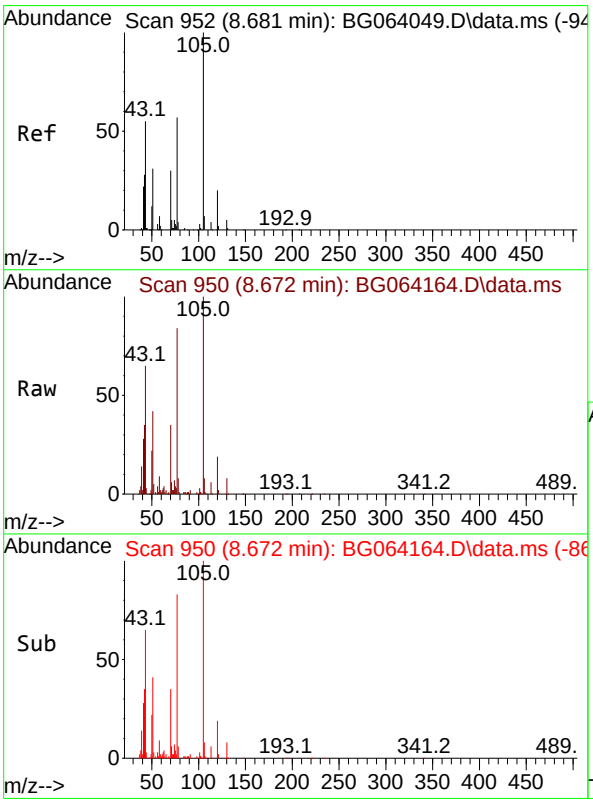
Ion	Ratio	Lower	Upper
136	100		
137	12.0	8.5	12.7
54	12.5	9.9	14.9
68	5.7	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

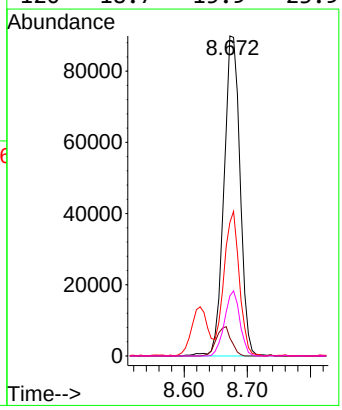
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

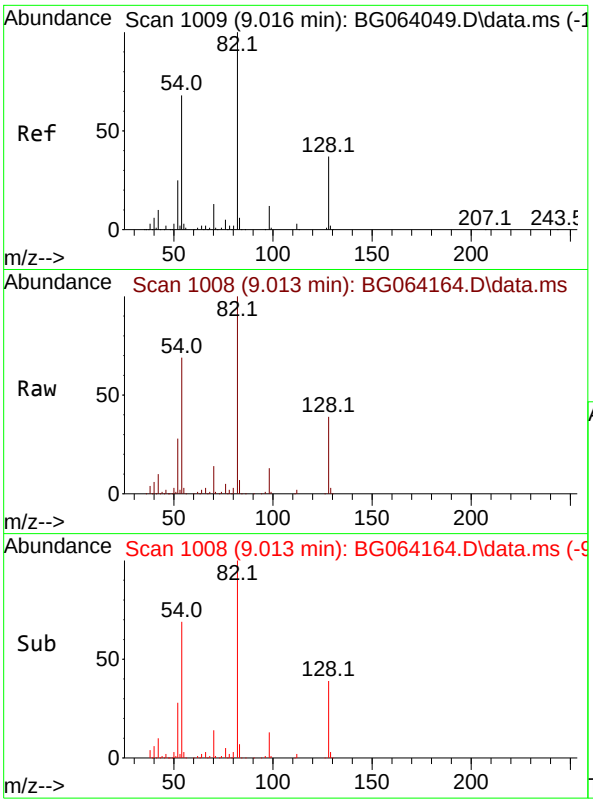


#22
Acetophenone
Concen: 38.113 ng
RT: 8.672 min Scan# 950
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:105 Resp: 158820

Ion	Ratio	Lower	Upper
105	100		
71	5.6	4.2	6.4
51	41.7	33.3	49.9
120	18.7	15.9	23.9

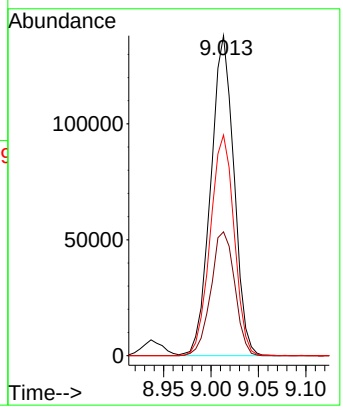




#23
Nitrobenzene-d5
Concen: 85.429 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 82 Resp: 23494

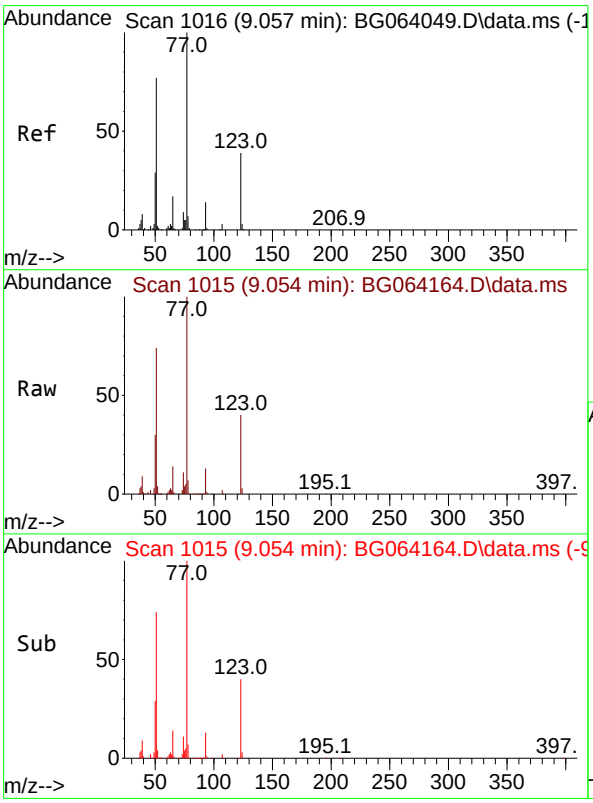
Ion	Ratio	Lower	Upper
82	100		
128	38.7	30.0	45.0
54	69.0	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

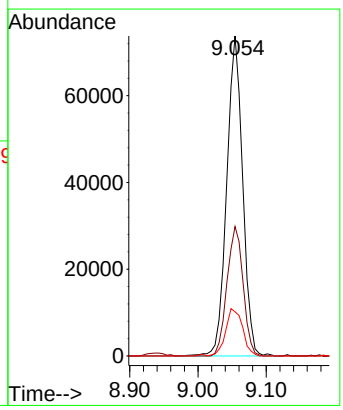
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

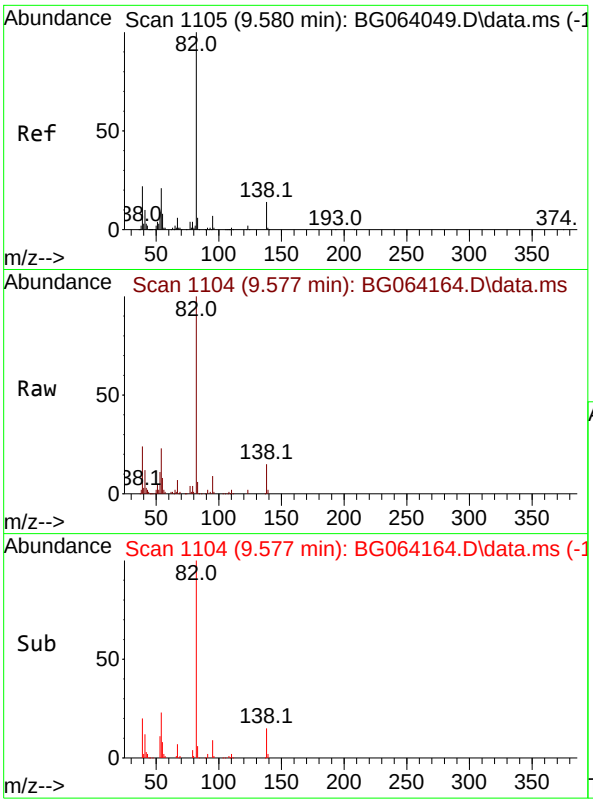


#24
Nitrobenzene
Concen: 42.235 ng
RT: 9.054 min Scan# 1015
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 77 Resp: 120042

Ion	Ratio	Lower	Upper
77	100		
123	40.5	31.4	47.2
65	13.8	13.4	20.0

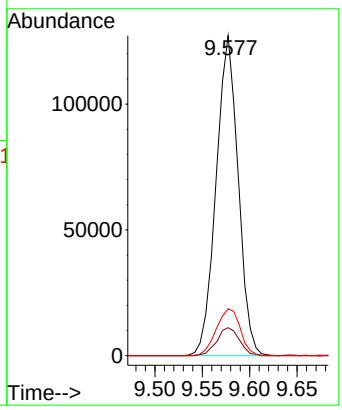




#25
Isophorone
Concen: 37.430 ng
RT: 9.577 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 82 Resp: 20603

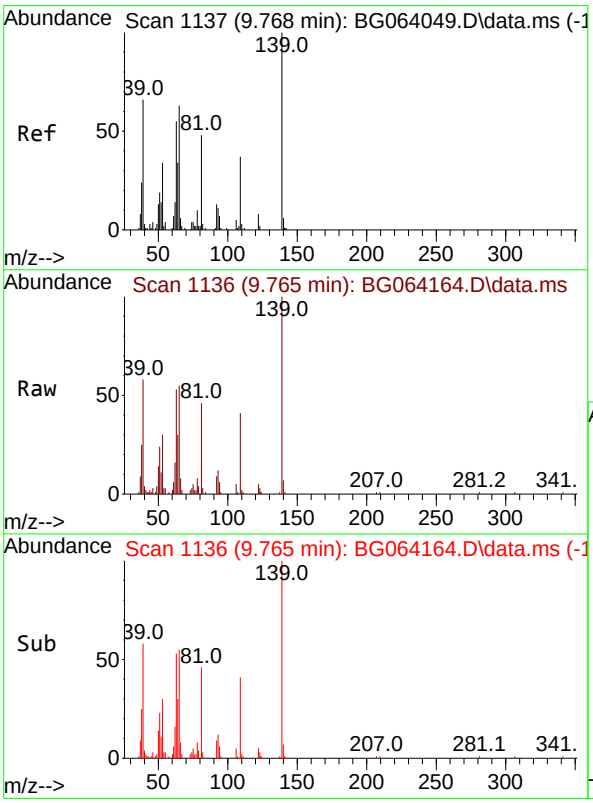
Ion	Ratio	Lower	Upper
82	100		
95	8.8	5.8	8.8
138	14.6	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

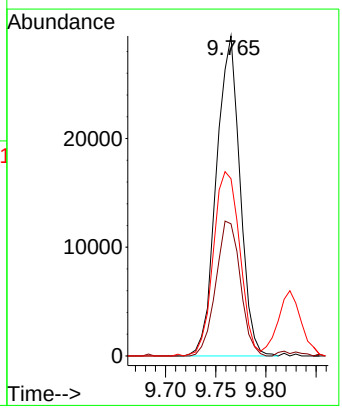
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

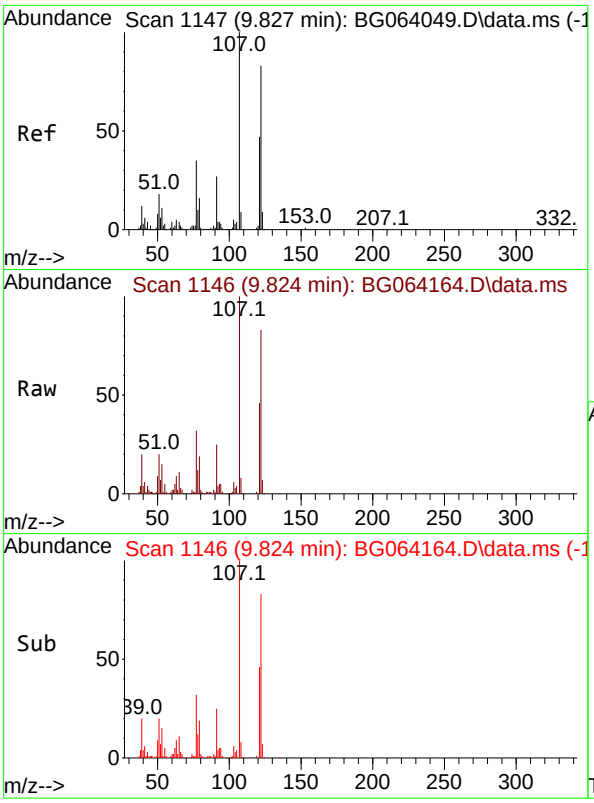


#26
2-Nitrophenol
Concen: 48.689 ng
RT: 9.765 min Scan# 1136
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:139 Resp: 48005

Ion	Ratio	Lower	Upper
139	100		
109	41.3	29.9	44.9
65	55.4	50.6	76.0

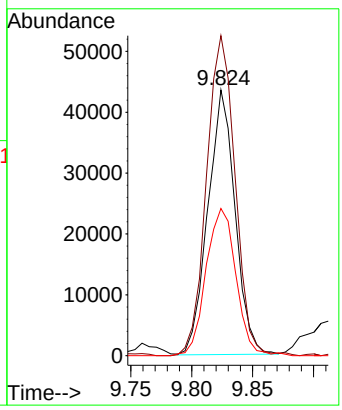




#27
2,4-Dimethylphenol
Concen: 40.907 ng
RT: 9.824 min Scan# 11
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:122 Resp: 6750

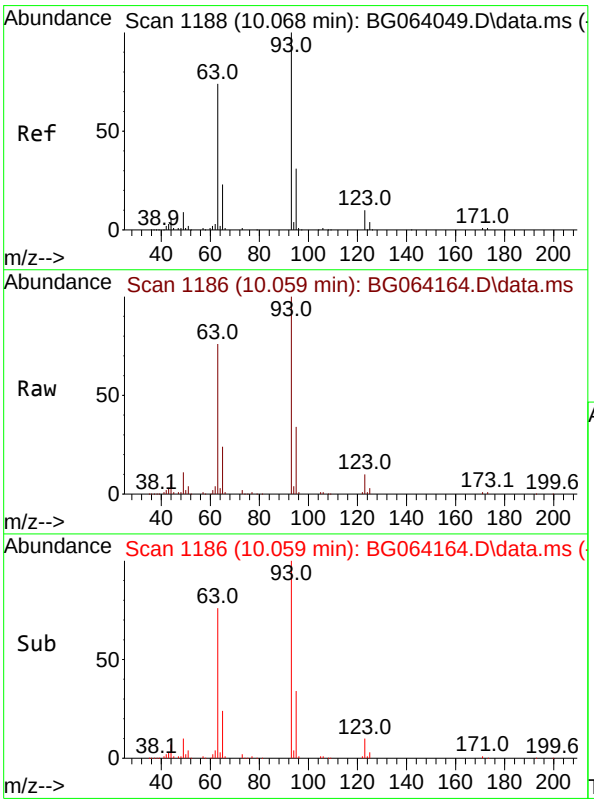
Ion	Ratio	Lower	Upper
122	100		
107	120.4	95.4	143.0
121	55.4	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

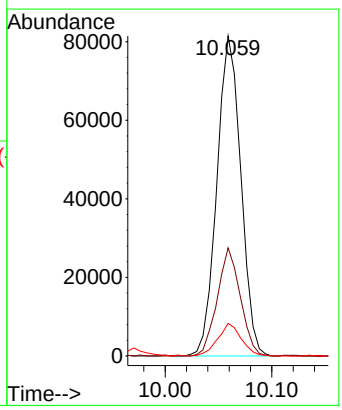
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

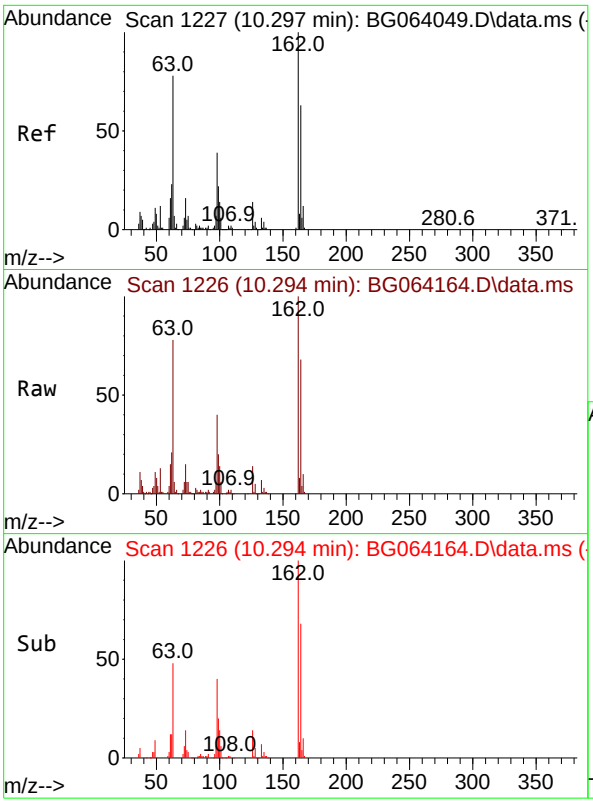


#28
bis(2-Chloroethoxy)methane
Concen: 38.083 ng
RT: 10.059 min Scan# 1186
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 93 Resp: 127095

Ion	Ratio	Lower	Upper
93	100		
95	33.8	25.0	37.4
123	10.2	7.6	11.4





#29
2,4-Dichlorophenol
Concen: 42.643 ng
RT: 10.294 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

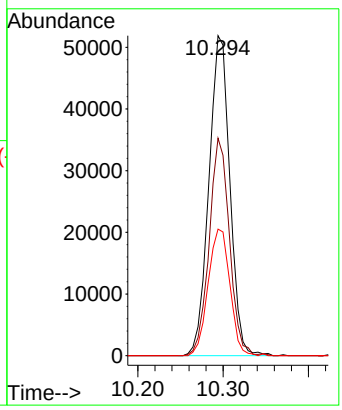
Tgt Ion:162 Resp: 8885

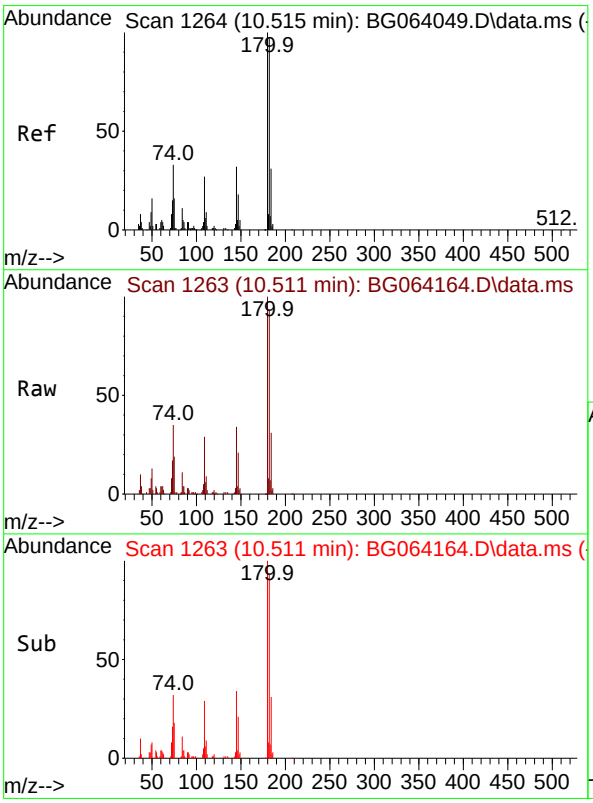
Ion	Ratio	Lower	Upper
162	100		
164	68.0	42.8	82.8
98	39.5	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

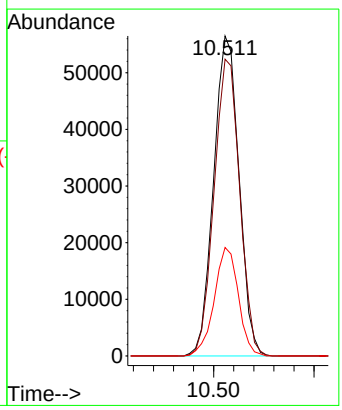


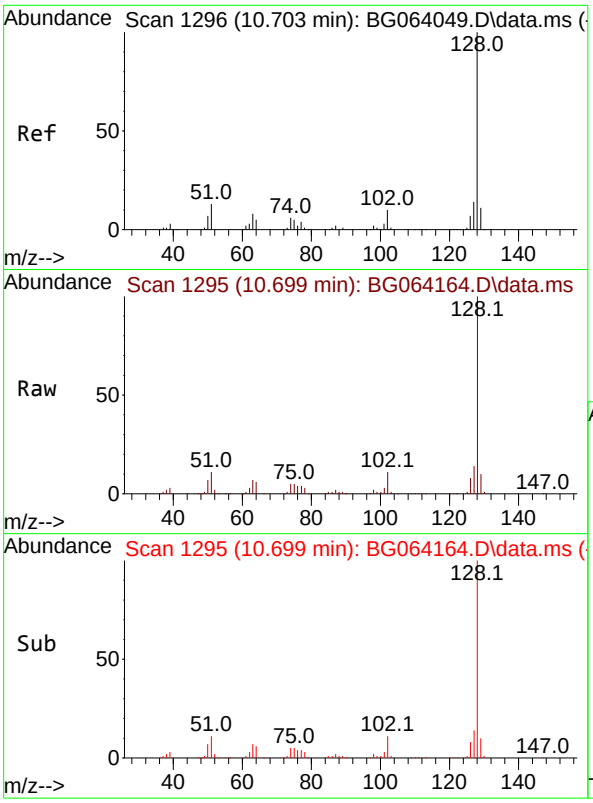


#30
1,2,4-Trichlorobenzene
Concen: 39.309 ng
RT: 10.511 min Scan# 1263
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:180 Resp: 98879

Ion	Ratio	Lower	Upper
180	100		
182	92.7	77.3	115.9
145	33.9	25.2	37.8

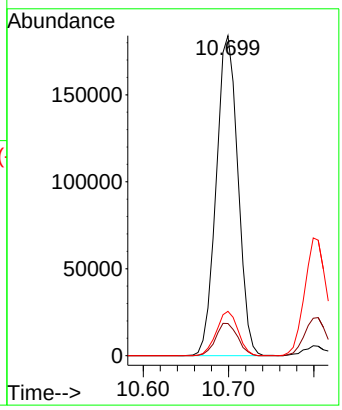




#31
Naphthalene
Concen: 39.722 ng
RT: 10.699 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:128 Resp: 32553

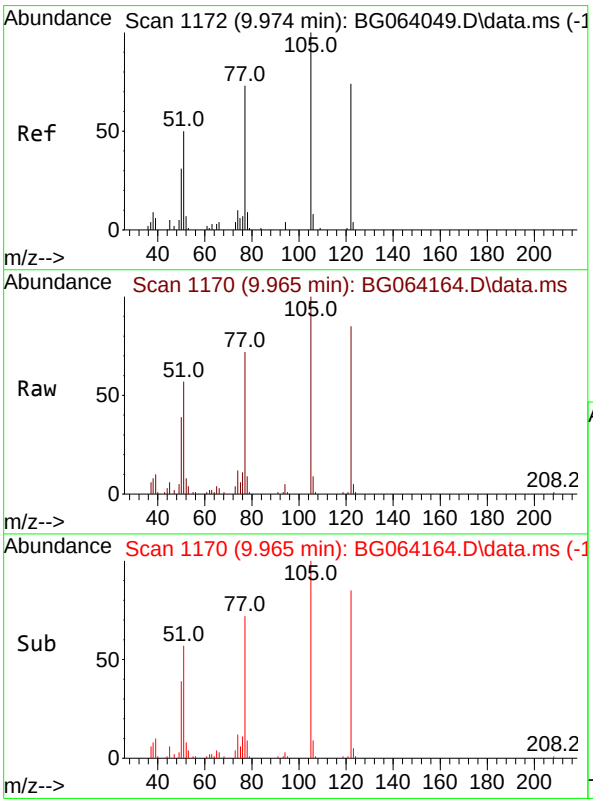
Ion	Ratio	Lower	Upper
128	100		
129	10.0	8.4	12.6
127	13.9	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

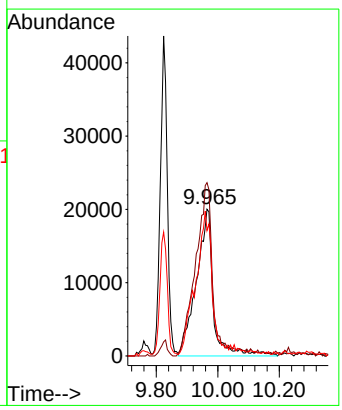
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

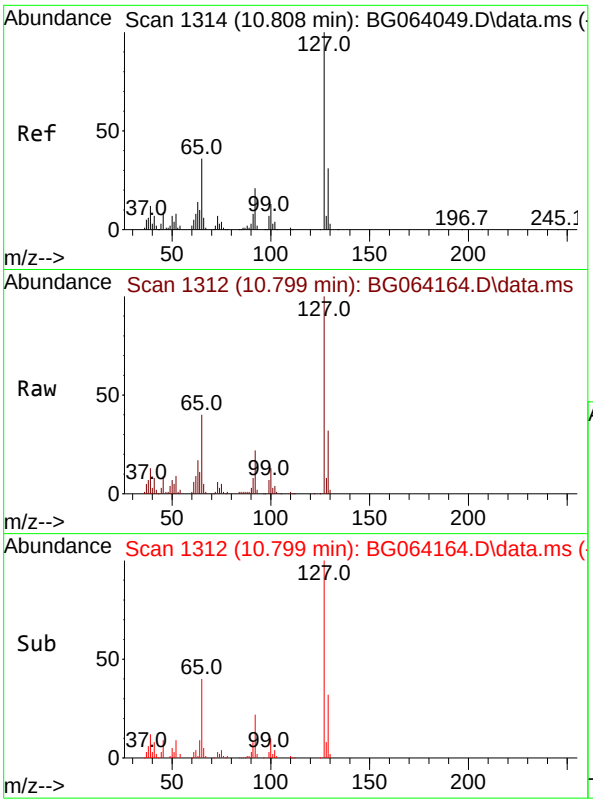


#32
Benzoic acid
Concen: 50.168 ng m
RT: 9.965 min Scan# 1170
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:122 Resp: 76750

Ion	Ratio	Lower	Upper
122	100		
105	118.0	115.0	155.0
77	85.5	80.9	120.9

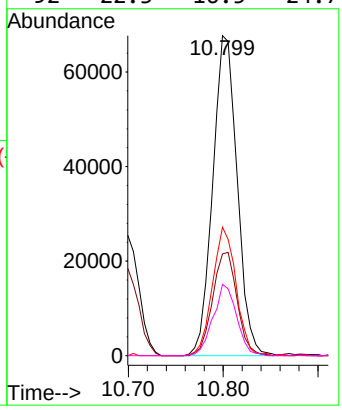




#33
4-Chloroaniline
Concen: 40.475 ng
RT: 10.799 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:127 Resp: 12123

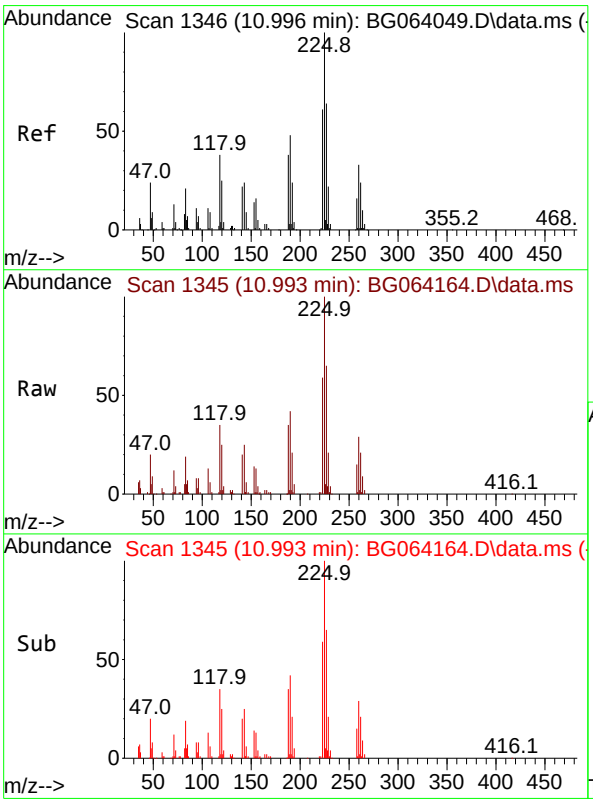
Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.0	37.4
65	40.1	28.5	42.7
92	22.3	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

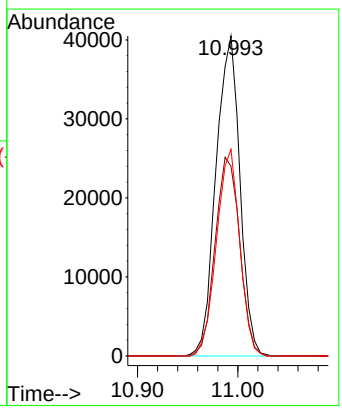
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

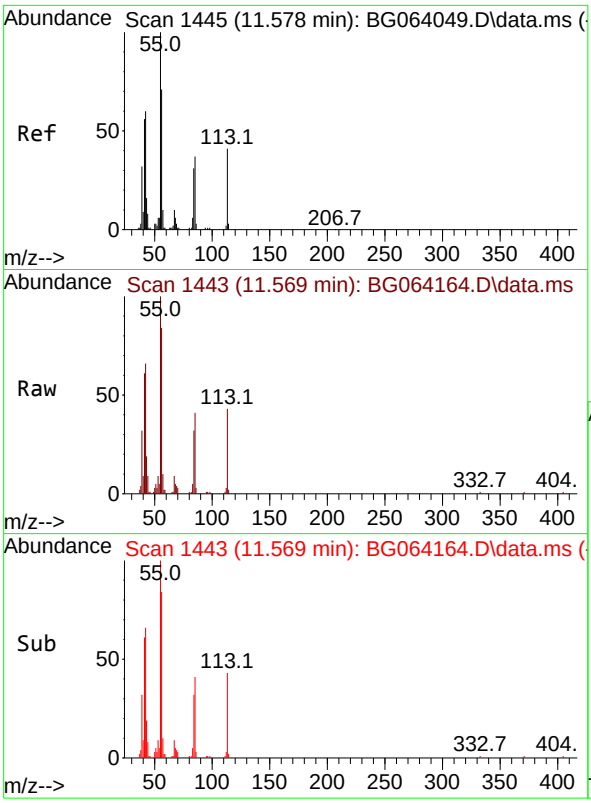


#34
Hexachlorobutadiene
Concen: 40.574 ng
RT: 10.993 min Scan# 1345
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:225 Resp: 66897

Ion	Ratio	Lower	Upper
225	100		
223	59.3	48.5	72.7
227	64.5	51.0	76.6





#35
Caprolactam
Concen: 42.361 ng
RT: 11.569 min Scan# 14
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

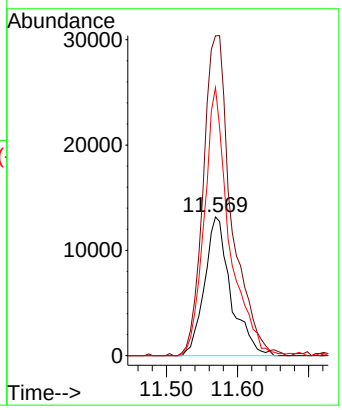
Tgt Ion:113 Resp: 3382

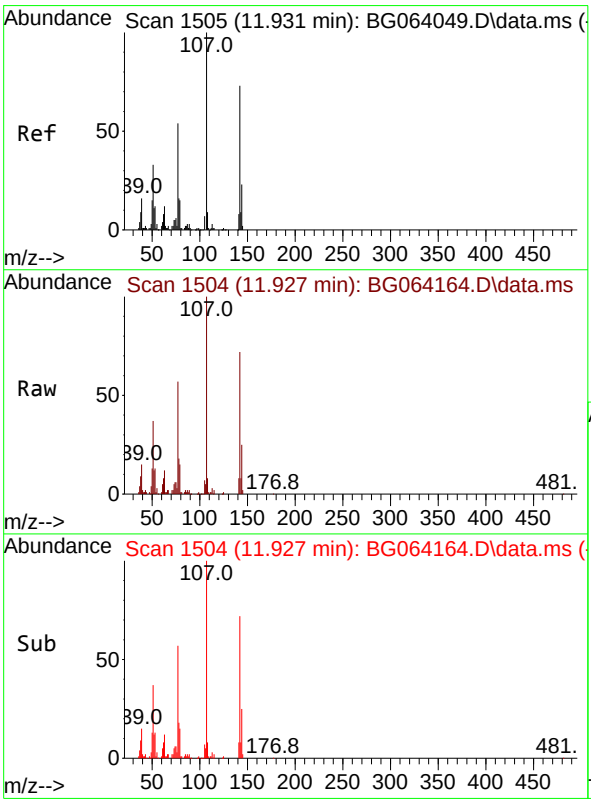
Ion	Ratio	Lower	Upper
113	100		
55	230.4	225.2	265.2
56	193.2	153.4	193.4

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

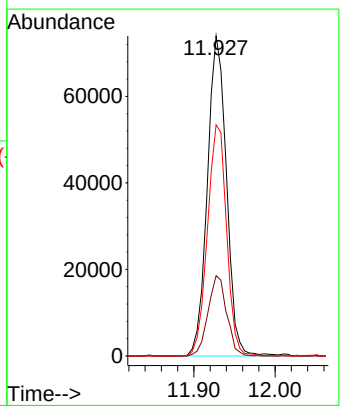


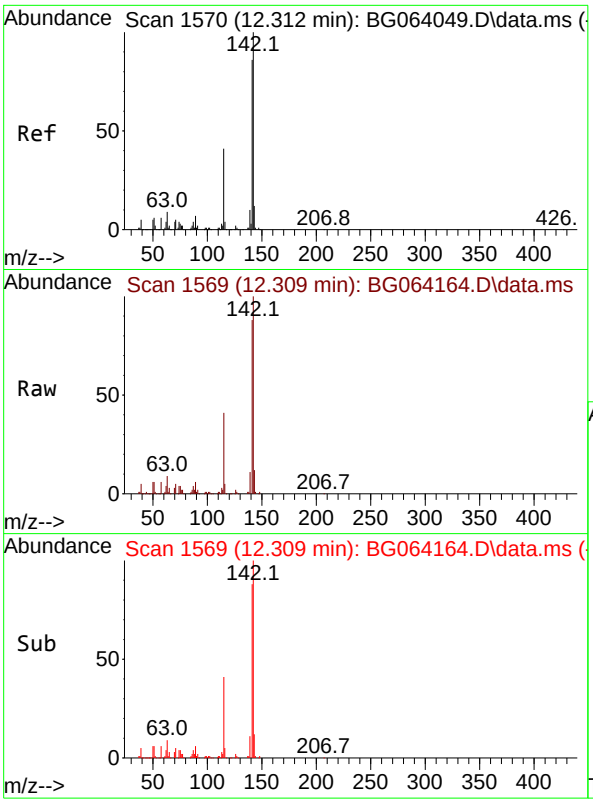


#36
4-Chloro-3-methylphenol
Concen: 44.169 ng
RT: 11.927 min Scan# 1504
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:107 Resp: 120643

Ion	Ratio	Lower	Upper
107	100		
144	25.1	18.6	28.0
142	72.2	58.0	87.0

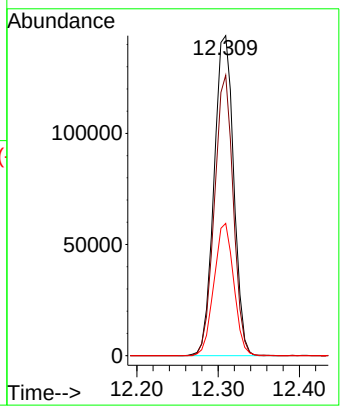




#37
2-Methylnaphthalene
Concen: 41.937 ng
RT: 12.309 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:142 Resp: 24262

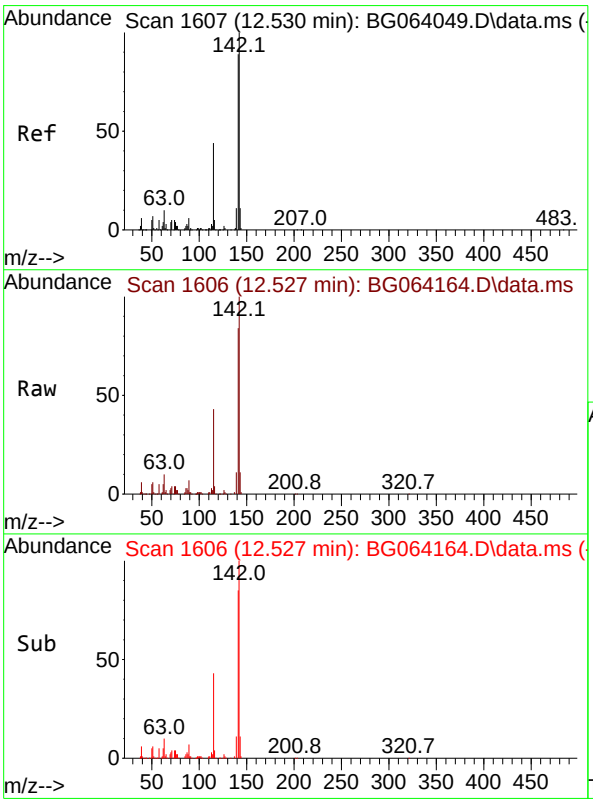
Ion	Ratio	Lower	Upper
142	100		
141	87.6	68.6	103.0
115	41.4	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

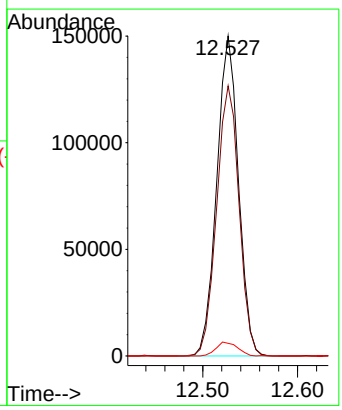
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

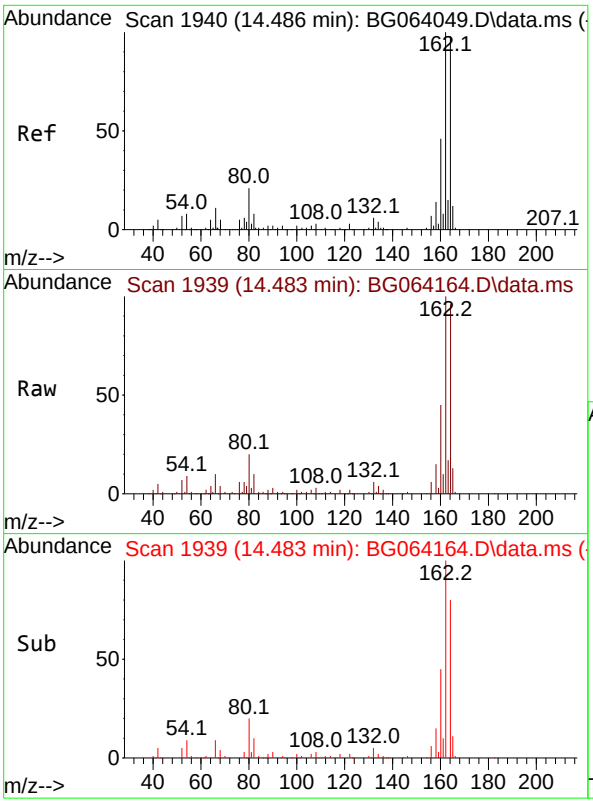


#38
1-Methylnaphthalene
Concen: 42.088 ng
RT: 12.527 min Scan# 1606
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:142 Resp: 238561

Ion	Ratio	Lower	Upper
142	100		
141	84.4	71.2	106.8
116	3.9	3.6	5.4

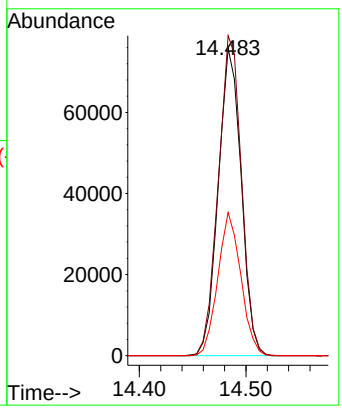




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:164 Resp: 11301

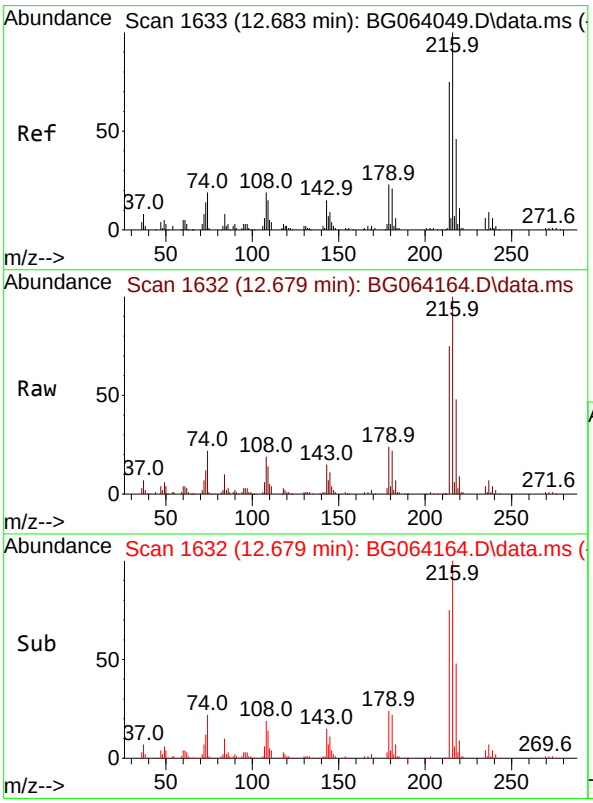
Ion	Ratio	Lower	Upper
164	100		
162	104.2	81.4	122.0
160	46.6	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

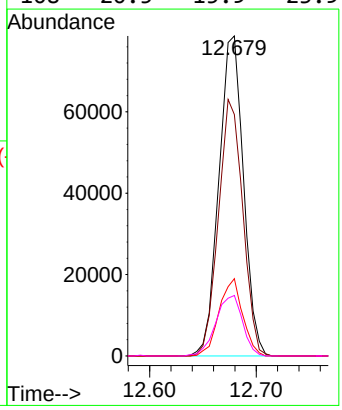
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

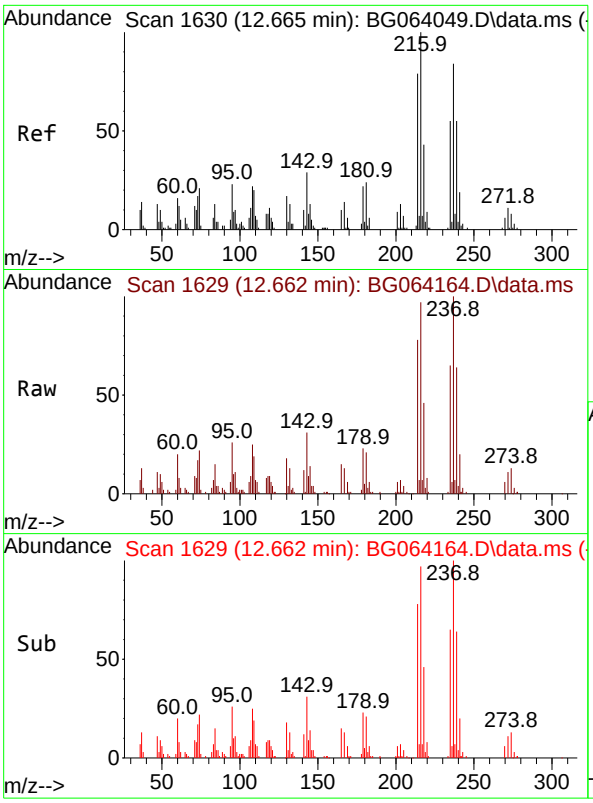


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.010 ng
RT: 12.679 min Scan# 1632
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:216 Resp: 125862

Ion	Ratio	Lower	Upper
216	100		
214	79.3	61.7	92.5
179	23.2	17.9	26.9
108	20.5	15.9	23.9

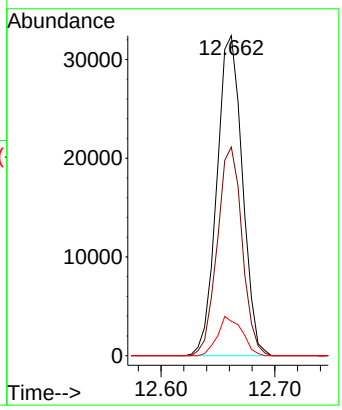




#41
Hexachlorocyclopentadiene
Concen: 55.656 ng
RT: 12.662 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:237 Resp: 5054

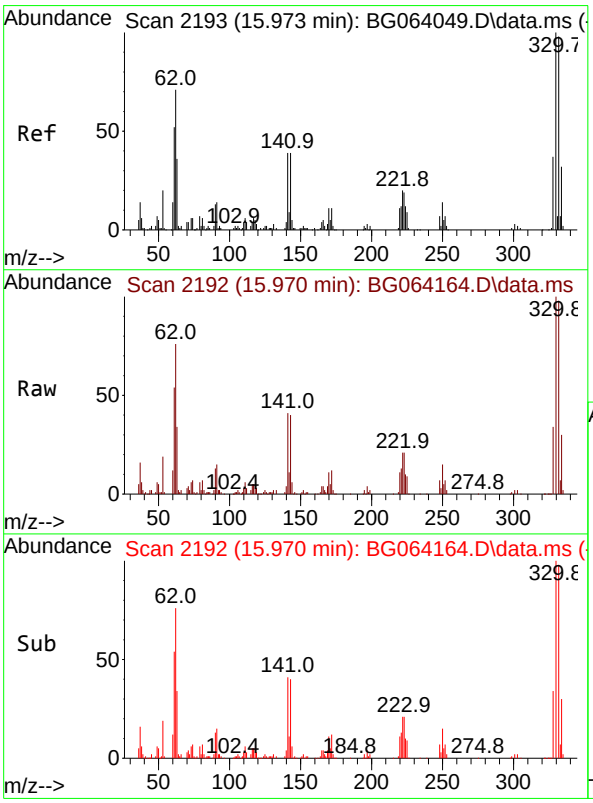
Ion	Ratio	Lower	Upper
237	100		
235	65.2	46.0	86.0
272	10.8	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

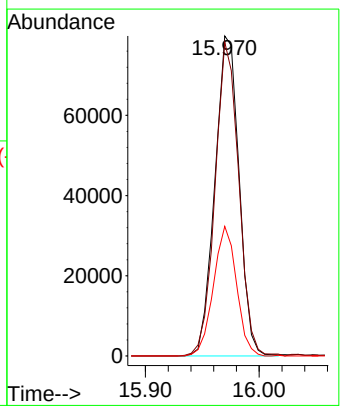
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

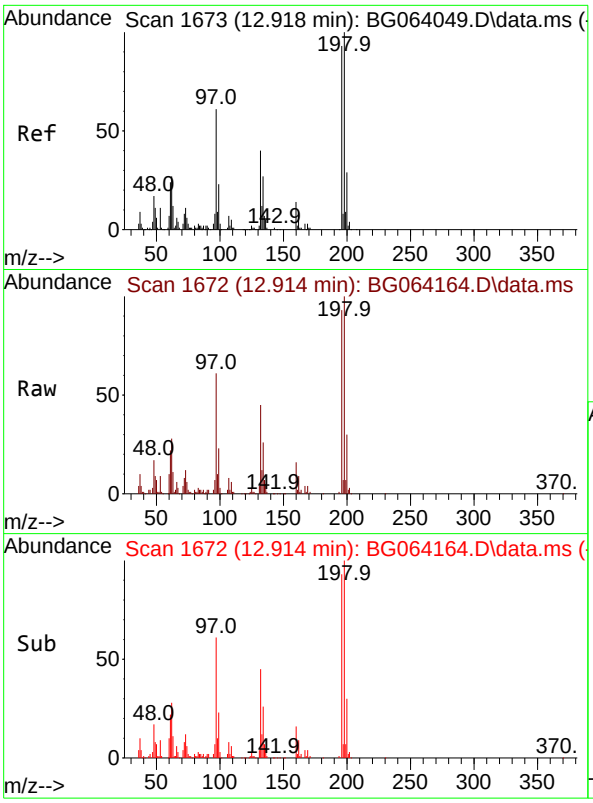


#42
2,4,6-Tribromophenol
Concen: 93.837 ng
RT: 15.970 min Scan# 2192
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:330 Resp: 117878

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.7	115.1
141	38.7	29.7	44.5





#43
2,4,6-Trichlorophenol
Concen: 42.978 ng
RT: 12.914 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

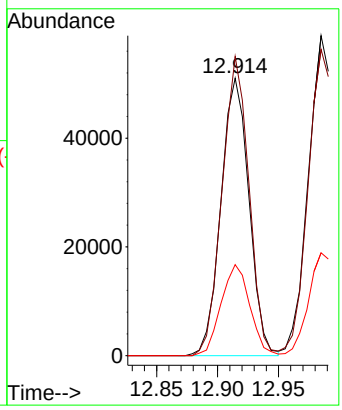
Tgt Ion:196 Resp: 8172

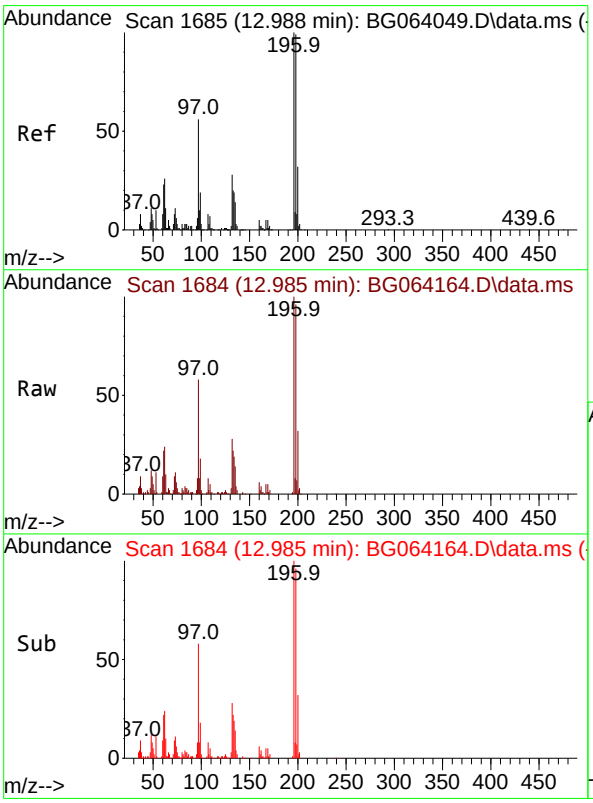
Ion	Ratio	Lower	Upper
196	100		
198	107.9	85.6	128.4
200	32.8	24.6	37.0

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

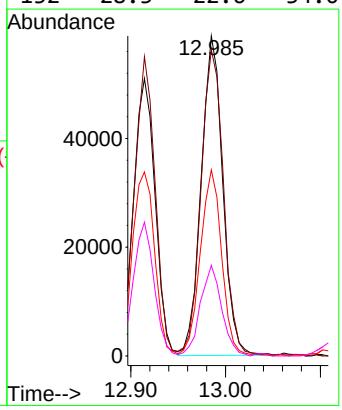


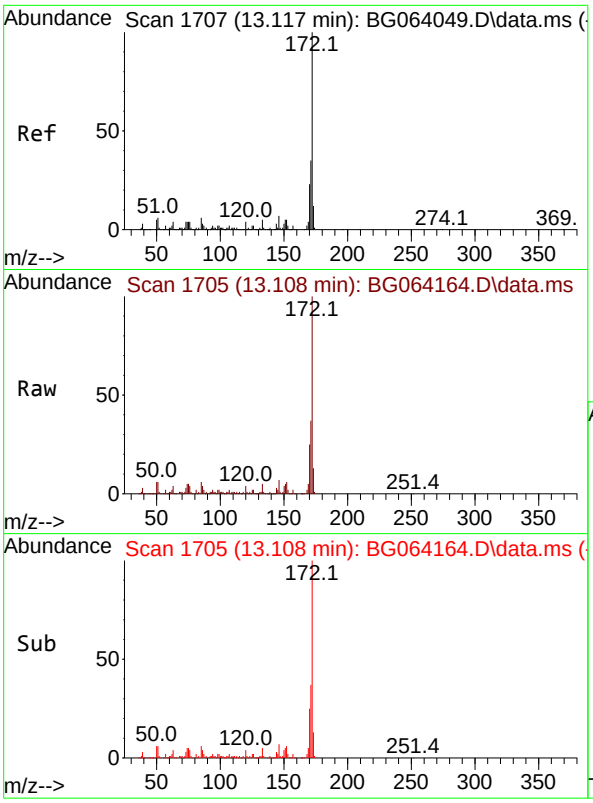


#44
2,4,5-Trichlorophenol
Concen: 43.945 ng
RT: 12.985 min Scan# 1684
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:196 Resp: 92850

Ion	Ratio	Lower	Upper
196	100		
198	95.7	79.5	119.3
97	58.2	45.2	67.8
132	28.3	22.6	34.0

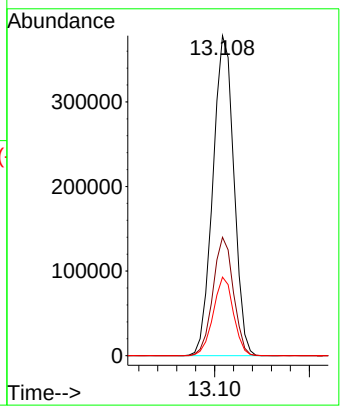




#45
2-Fluorobiphenyl
Concen: 78.142 ng
RT: 13.108 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:172 Resp: 58179

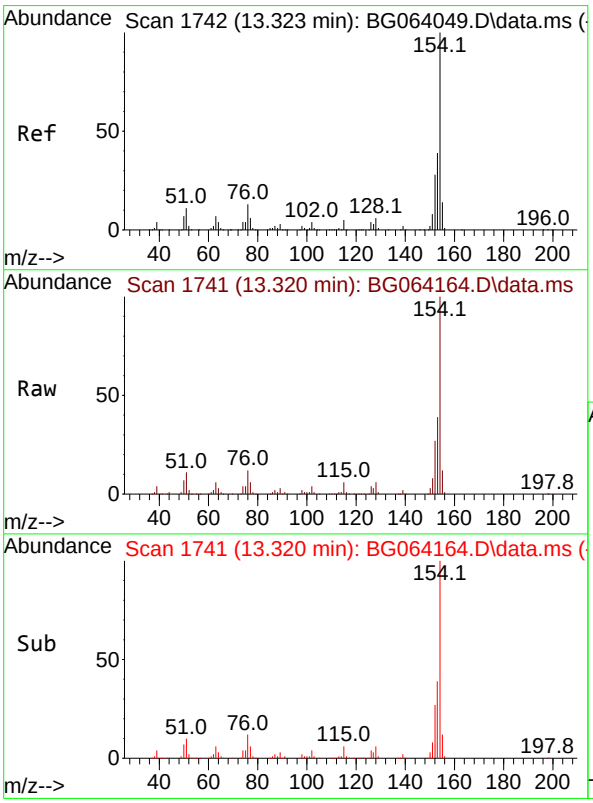
Ion	Ratio	Lower	Upper
172	100		
171	37.0	28.0	42.0
170	24.5	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

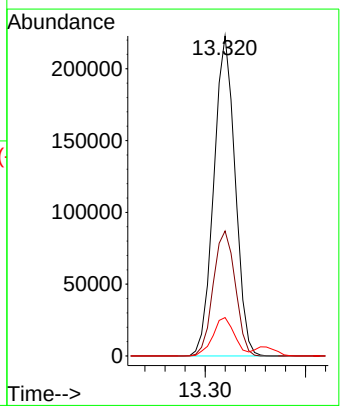
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

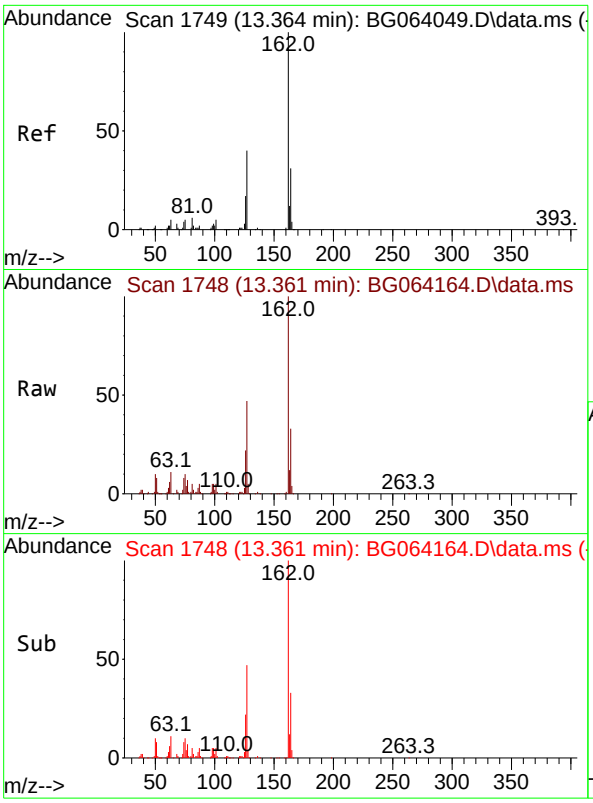


#46
1,1'-Biphenyl
Concen: 38.424 ng
RT: 13.320 min Scan# 1741
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:154 Resp: 328066

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.5	59.5
76	12.0	0.0	33.5

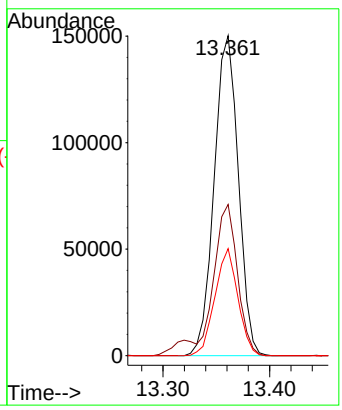




#47
2-Chloronaphthalene
Concen: 37.945 ng
RT: 13.361 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:162 Resp: 23628

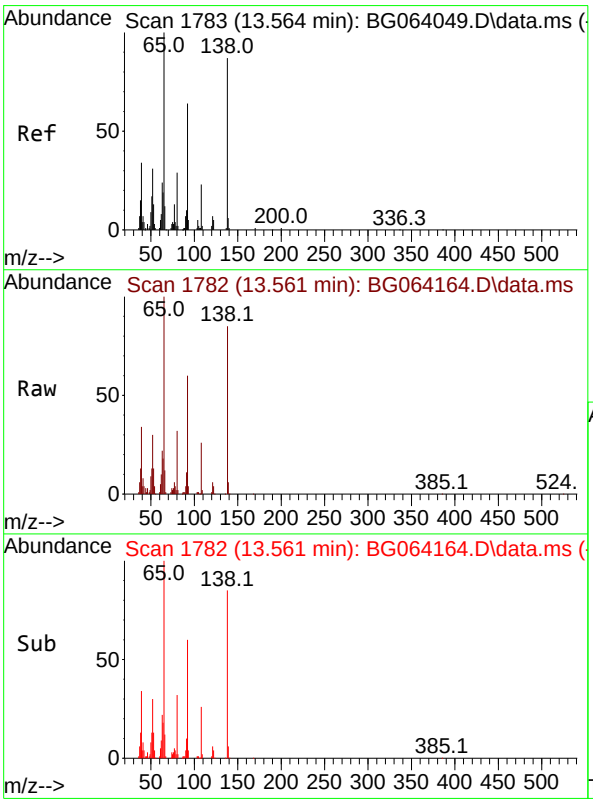
Ion	Ratio	Lower	Upper
162	100		
127	47.2	35.0	52.4
164	33.4	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

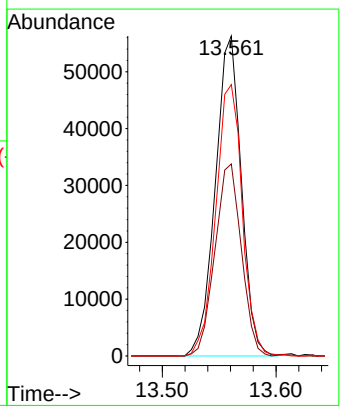
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

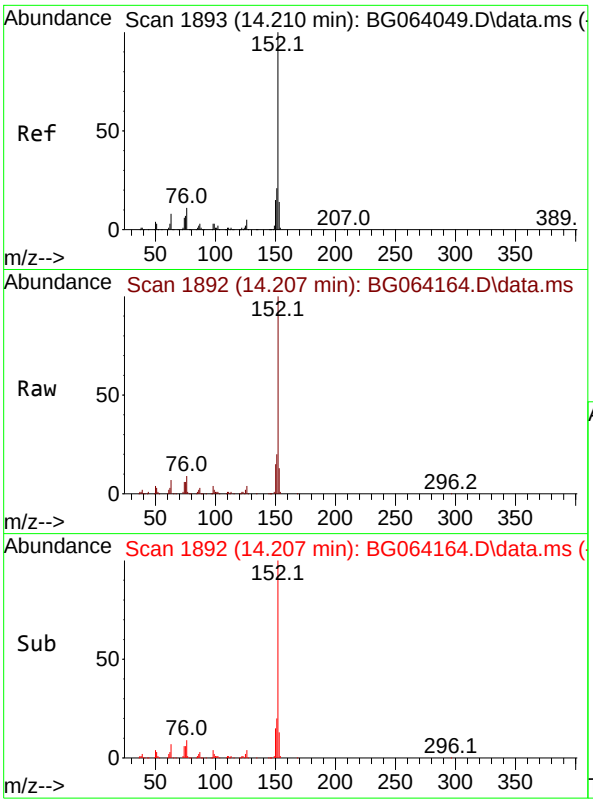


#48
2-Nitroaniline
Concen: 44.074 ng
RT: 13.561 min Scan# 1782
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 65 Resp: 89492

Ion	Ratio	Lower	Upper
65	100		
92	60.0	51.2	76.8
138	84.8	69.4	104.2

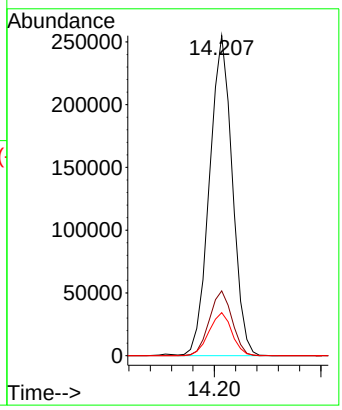




#49
Acenaphthylene
Concen: 38.382 ng
RT: 14.207 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:152 Resp: 37804

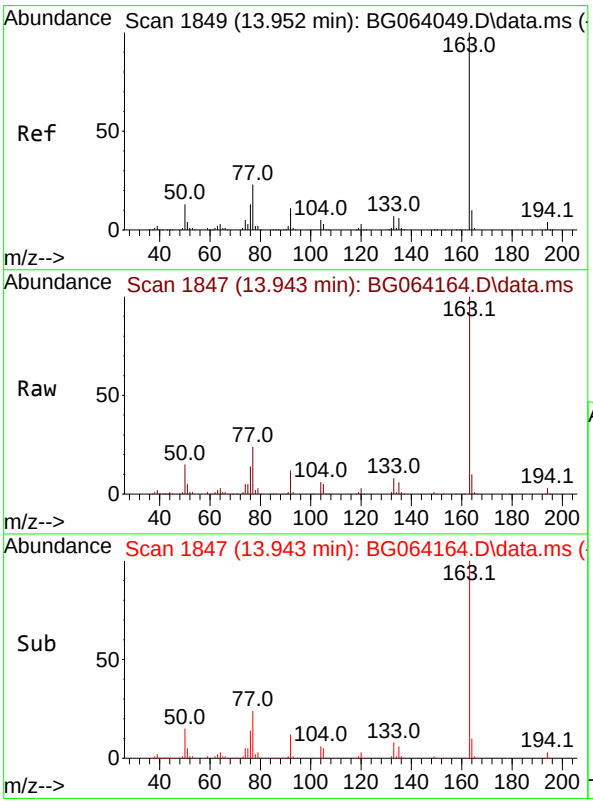
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	13.5	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

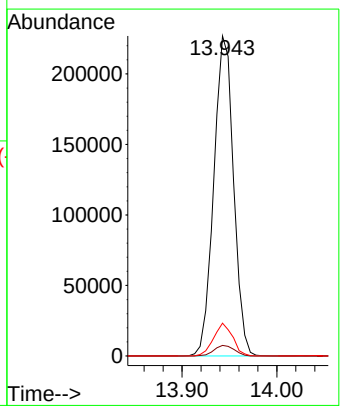
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

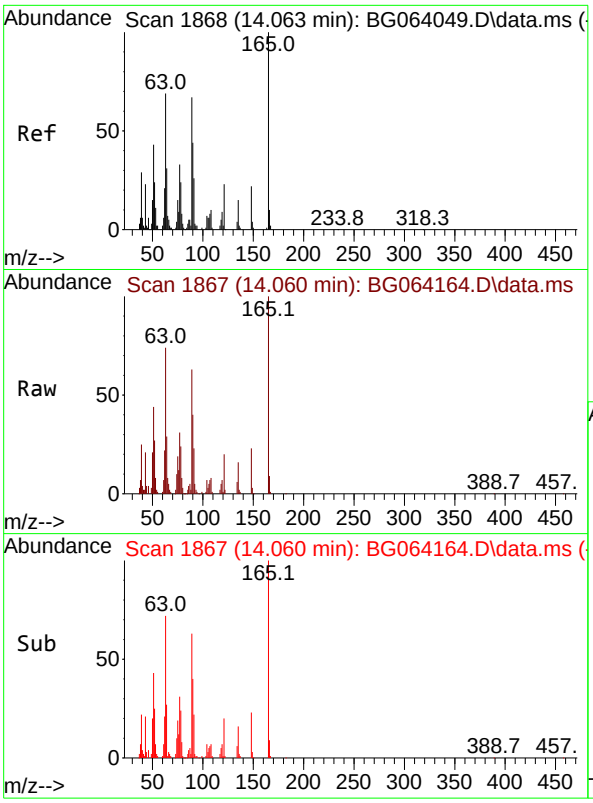


#50
Dimethylphthalate
Concen: 39.426 ng
RT: 13.943 min Scan# 1847
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:163 Resp: 328899

Ion	Ratio	Lower	Upper
163	100		
194	3.3	2.8	4.2
164	10.2	8.2	12.2

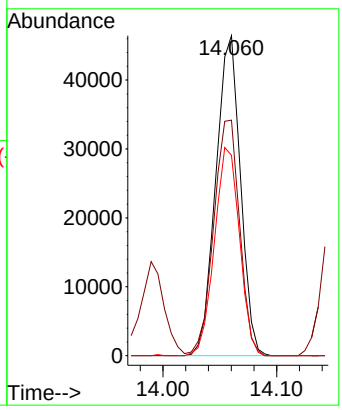




#51
2,6-Dinitrotoluene
Concen: 41.696 ng
RT: 14.060 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:165 Resp: 6976

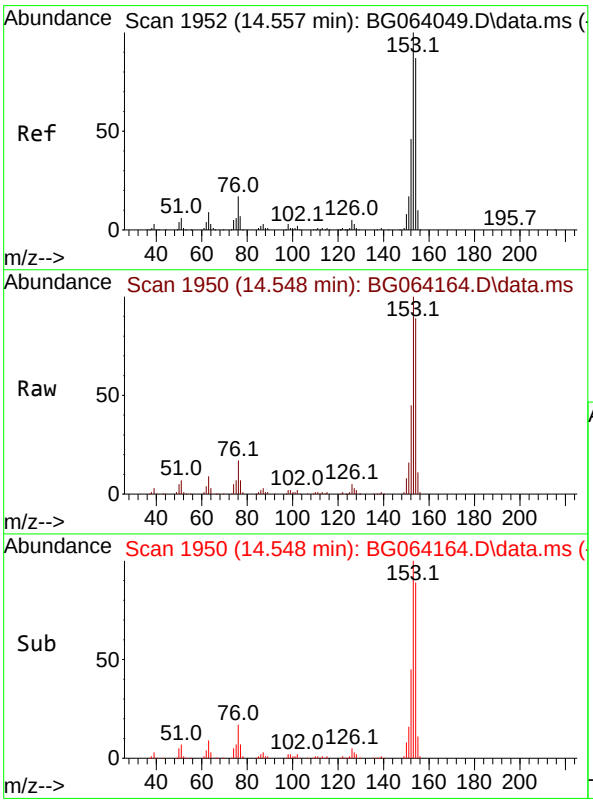
Ion	Ratio	Lower	Upper
165	100		
63	73.6	56.7	85.1
89	62.6	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

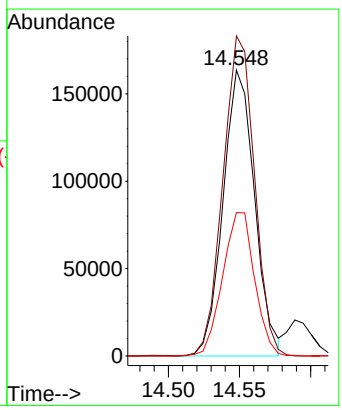
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

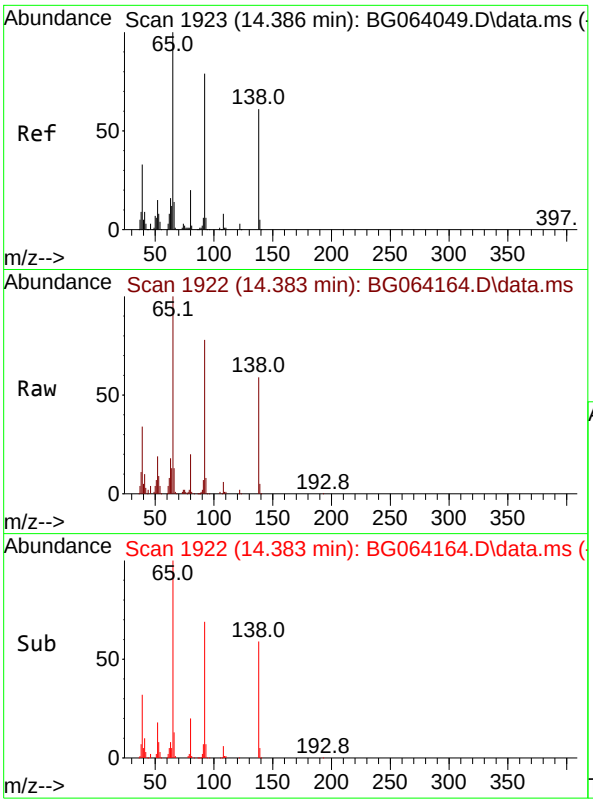


#52
Acenaphthene
Concen: 38.229 ng
RT: 14.548 min Scan# 1950
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:154 Resp: 252698

Ion	Ratio	Lower	Upper
154	100		
153	111.9	91.6	137.4
152	50.1	42.5	63.7





#53
3-Nitroaniline
Concen: 43.696 ng
RT: 14.383 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

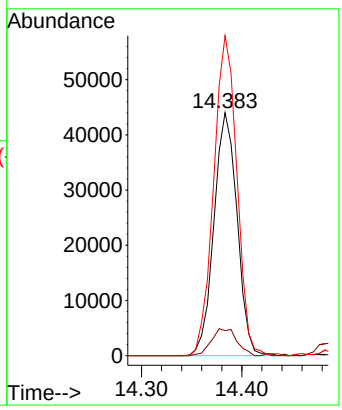
Tgt Ion:138 Resp: 7045

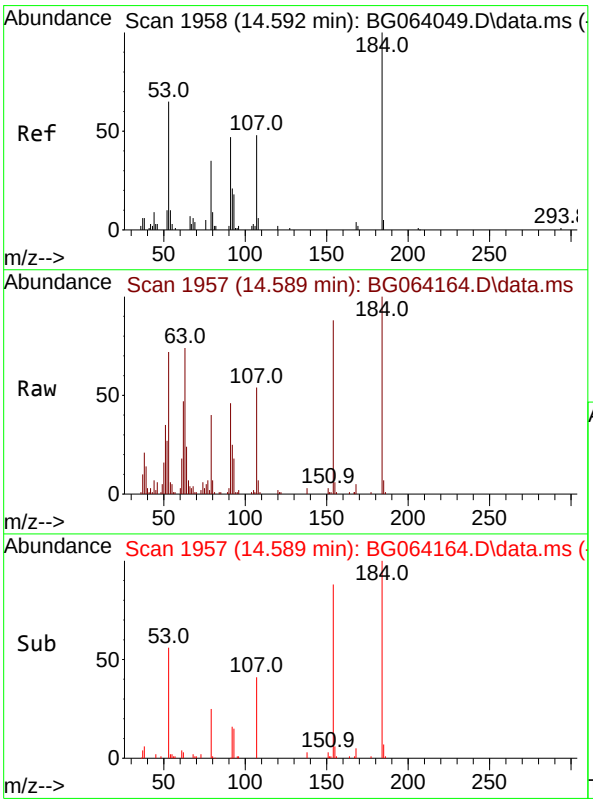
Ion	Ratio	Lower	Upper
138	100		
108	10.3	10.1	15.1
92	131.7	104.1	156.1

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

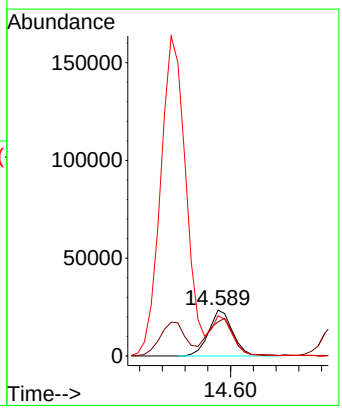


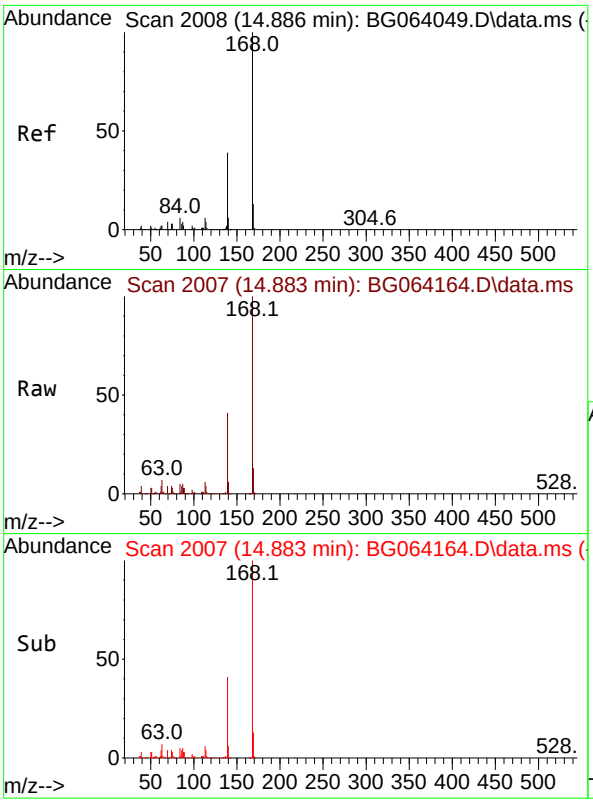


#54
2,4-Dinitrophenol
Concen: 51.990 ng
RT: 14.589 min Scan# 1957
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:184 Resp: 34525

Ion	Ratio	Lower	Upper
184	100		
63	74.3	57.5	86.3
154	87.6	52.3	78.5#





#55
Dibenzofuran
Concen: 38.644 ng
RT: 14.883 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

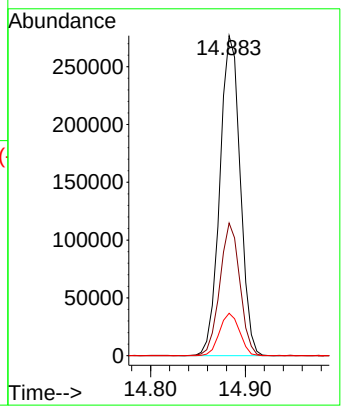
Tgt Ion:168 Resp: 41380

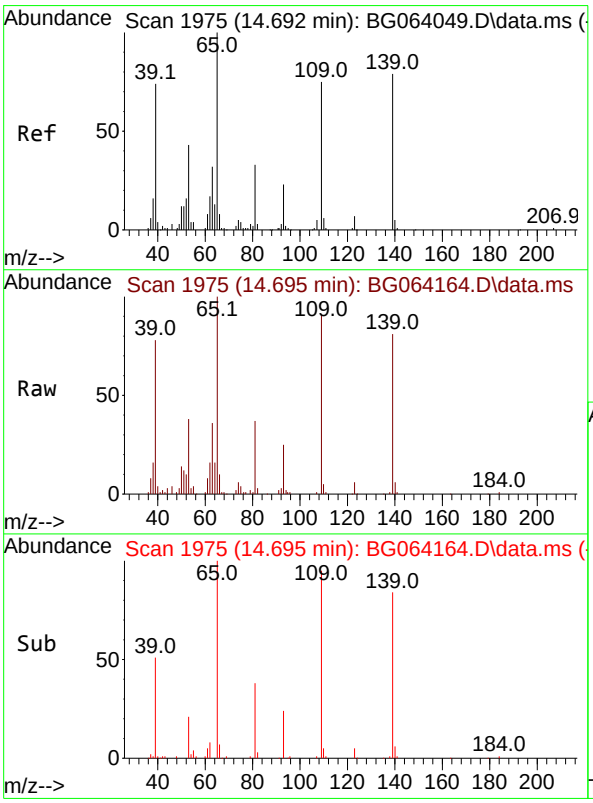
Ion	Ratio	Lower	Upper
168	100		
139	41.5	31.1	46.7
169	13.3	10.5	15.7

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

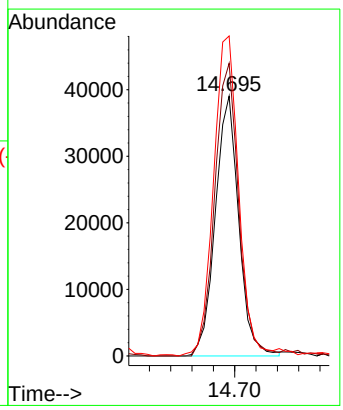


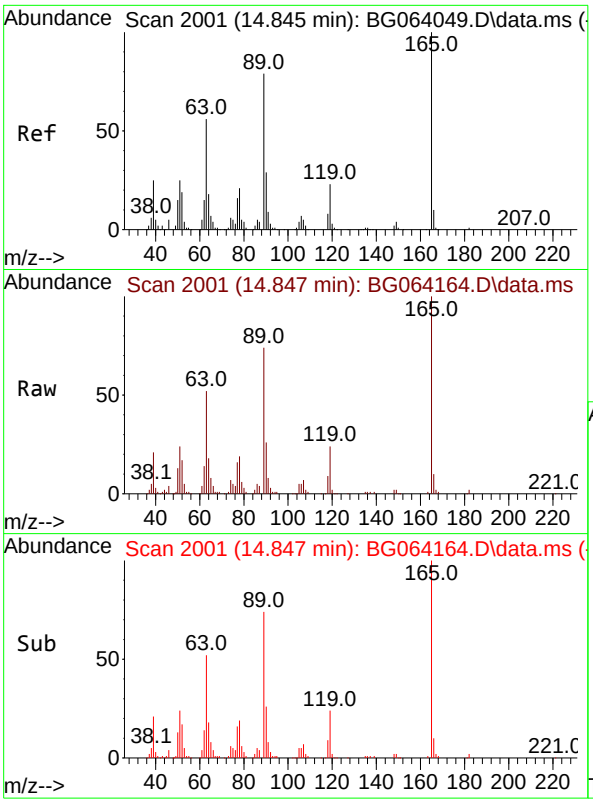


#56
4-Nitrophenol
Concen: 44.070 ng
RT: 14.695 min Scan# 1975
Delta R.T. 0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:139 Resp: 59592

Ion	Ratio	Lower	Upper
139	100		
109	112.6	74.9	114.9
65	123.1	106.8	146.8

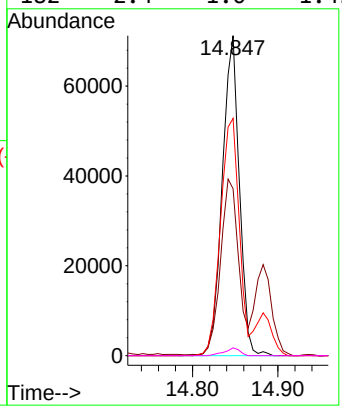




#57
2,4-Dinitrotoluene
Concen: 42.785 ng
RT: 14.847 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:165 Resp: 9891

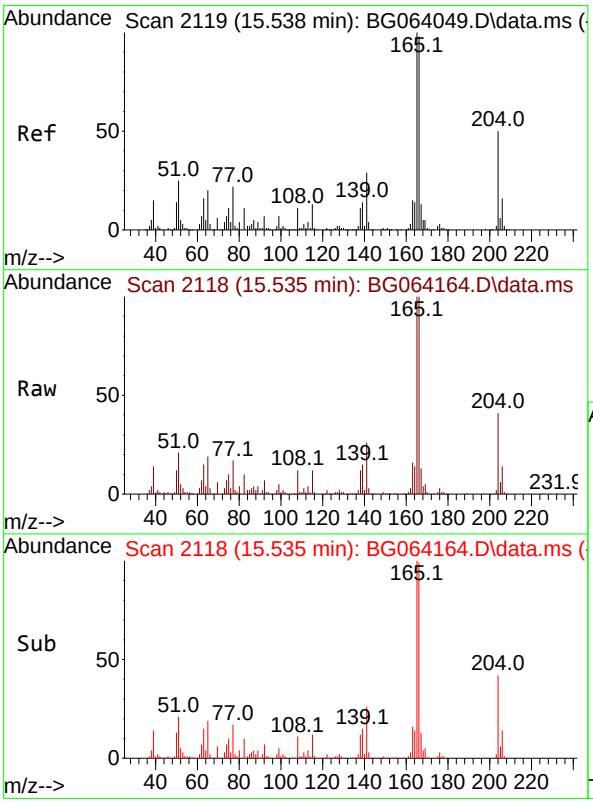
Ion	Ratio	Lower	Upper
165	100		
63	52.2	45.0	67.6
89	74.2	63.1	94.7
182	2.4	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

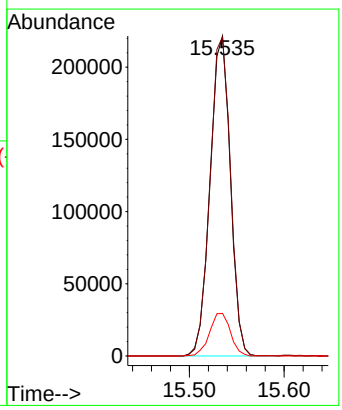
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

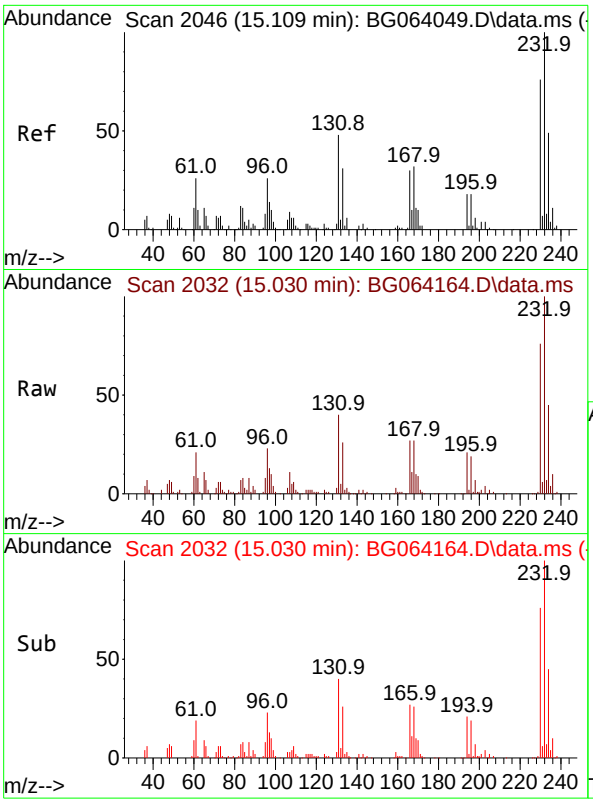


#58
Fluorene
Concen: 39.423 ng
RT: 15.535 min Scan# 2118
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:166 Resp: 328800

Ion	Ratio	Lower	Upper
166	100		
165	99.7	81.8	122.8
167	13.3	10.8	16.2

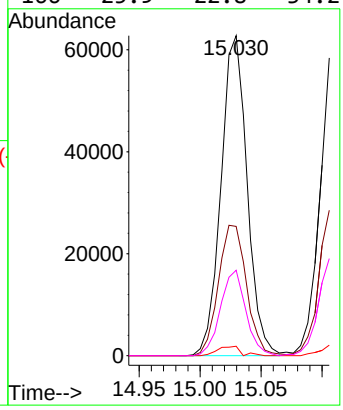




#59
2,3,4,6-Tetrachlorophenol
Concen: 45.389 ng
RT: 15.030 min Scan# 2
Delta R.T. -0.080 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:232 Resp: 9349

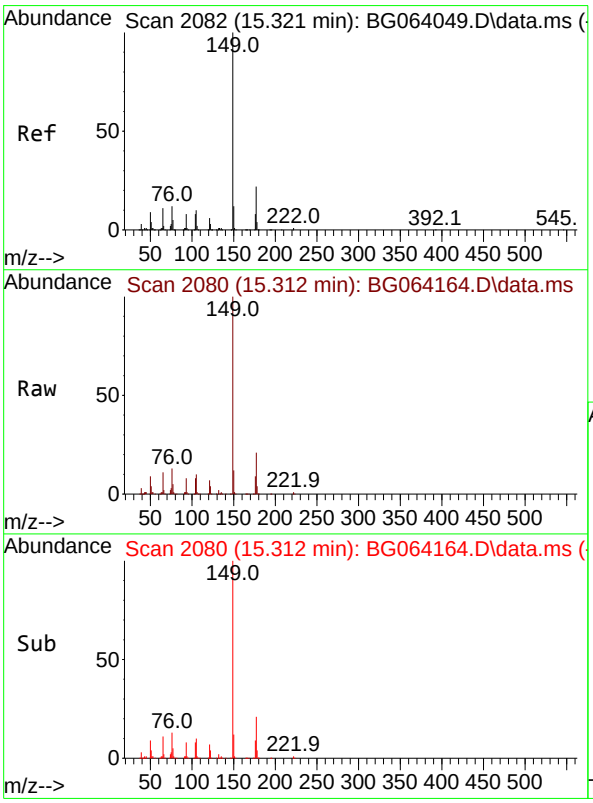
Ion	Ratio	Lower	Upper
232	100		
131	44.0	36.3	54.5
130	2.6	1.9	2.9
166	25.9	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

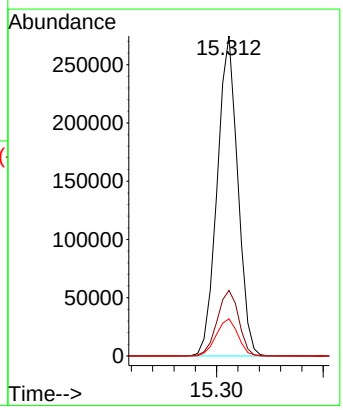
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

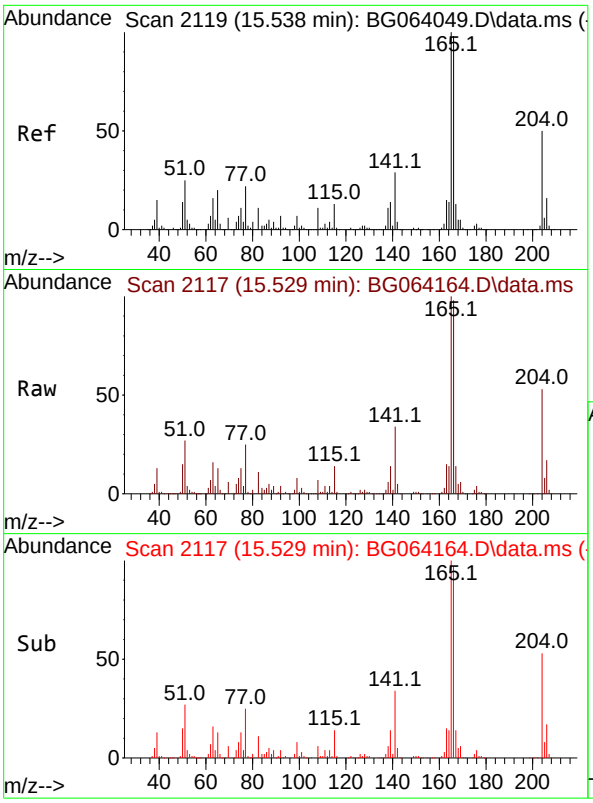


#60
Diethylphthalate
Concen: 40.534 ng
RT: 15.312 min Scan# 2080
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:149 Resp: 367087

Ion	Ratio	Lower	Upper
149	100		
177	20.5	17.4	26.2
150	11.6	9.4	14.2

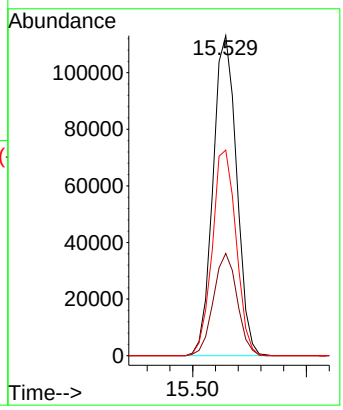




#61
4-Chlorophenyl-phenylether
Concen: 39.373 ng
RT: 15.529 min Scan# 2
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:204 Resp: 16318

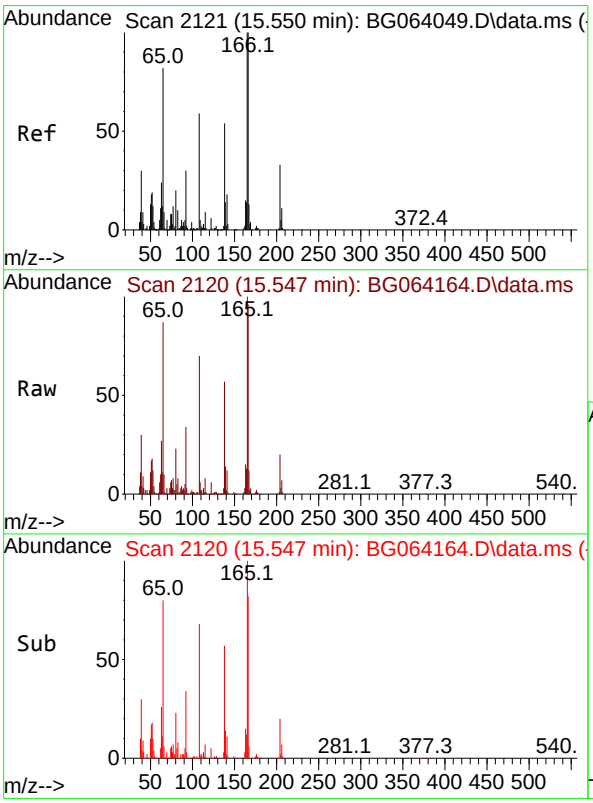
Ion	Ratio	Lower	Upper
204	100		
206	32.0	25.5	38.3
141	64.3	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

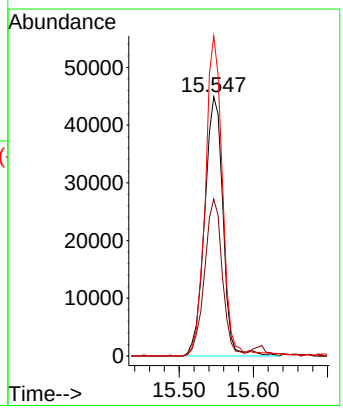
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

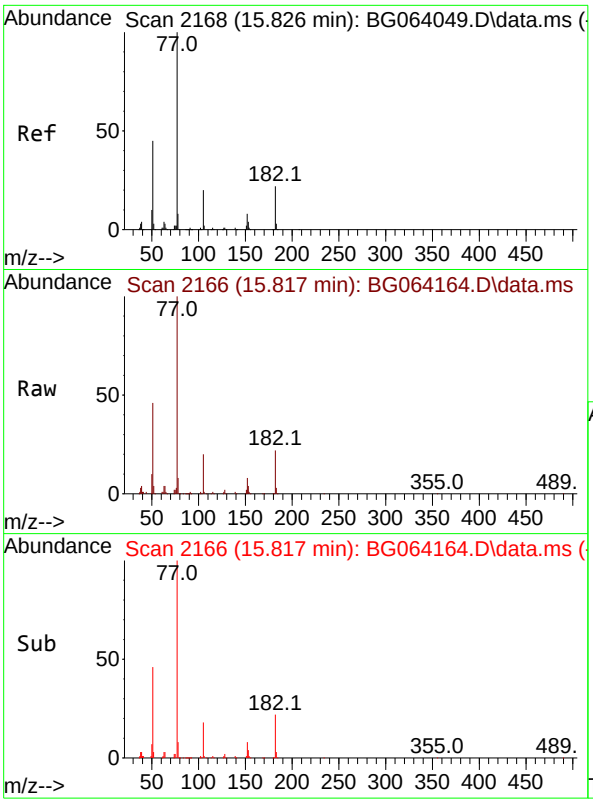


#62
4-Nitroaniline
Concen: 44.300 ng
RT: 15.547 min Scan# 2120
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:138 Resp: 77114

Ion	Ratio	Lower	Upper
138	100		
92	60.5	36.1	76.1
108	123.4	87.9	127.9

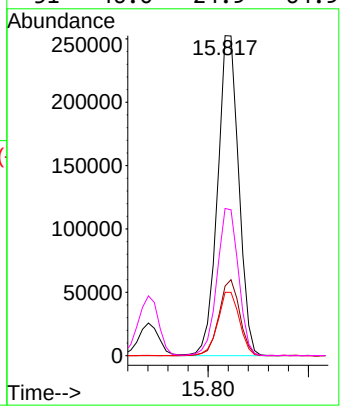




#63
Azobenzene
Concen: 38.258 ng
RT: 15.817 min Scan# 21
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion: 77 Resp: 36972

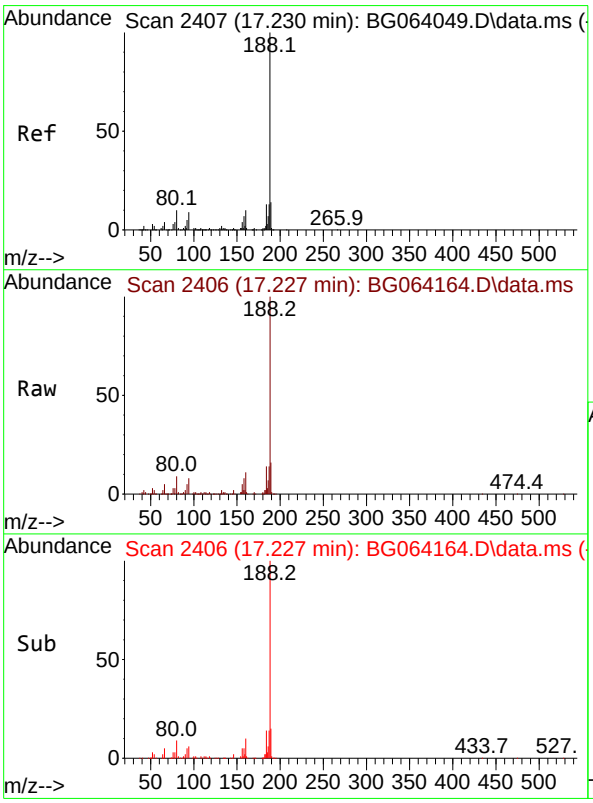
Ion	Ratio	Lower	Upper
77	100		
182	21.8	2.4	42.4
105	19.8	0.0	40.0
51	46.0	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

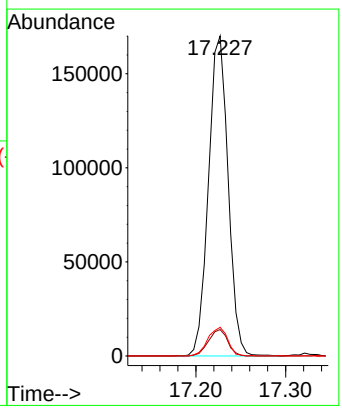
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

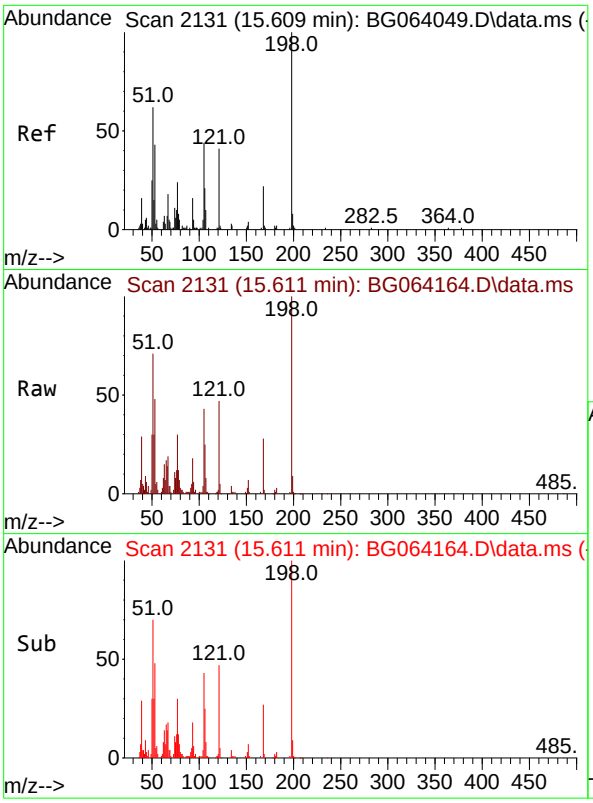


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:188 Resp: 257861

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.9	10.3
80	9.0	8.1	12.1

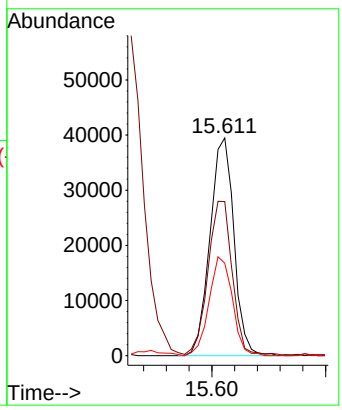




#65
4,6-Dinitro-2-methylphenol
Concen: 51.147 ng
RT: 15.611 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:198 Resp: 5769

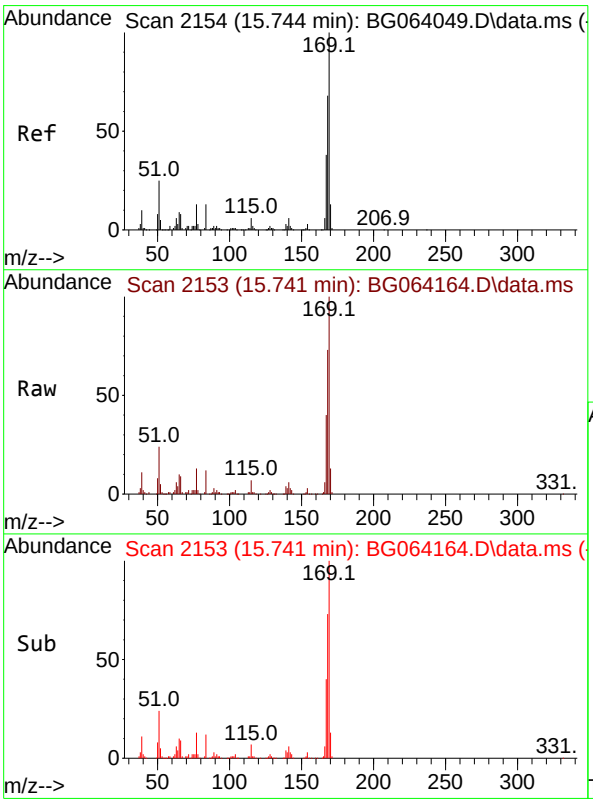
Ion	Ratio	Lower	Upper
198	100		
51	70.7	45.6	85.6
105	42.5	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

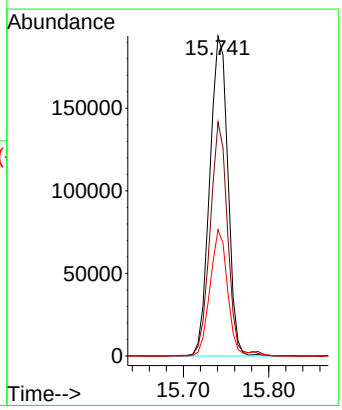
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

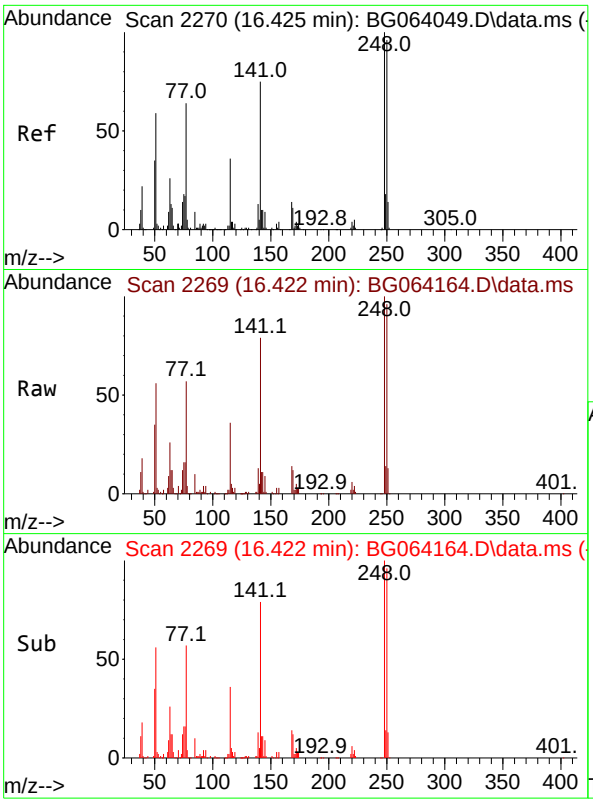


#66
n-Nitrosodiphenylamine
Concen: 39.119 ng
RT: 15.741 min Scan# 2153
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:169 Resp: 285532

Ion	Ratio	Lower	Upper
169	100		
168	73.1	54.1	81.1
167	39.5	30.3	45.5





#67
4-Bromophenyl-phenylether
Concen: 41.251 ng
RT: 16.422 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

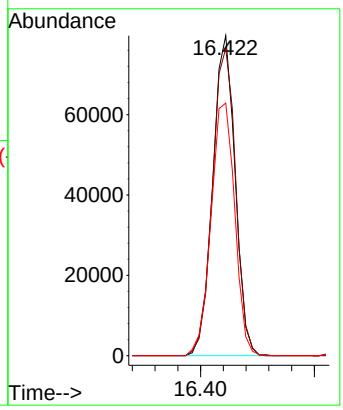
Tgt Ion:248 Resp: 10894

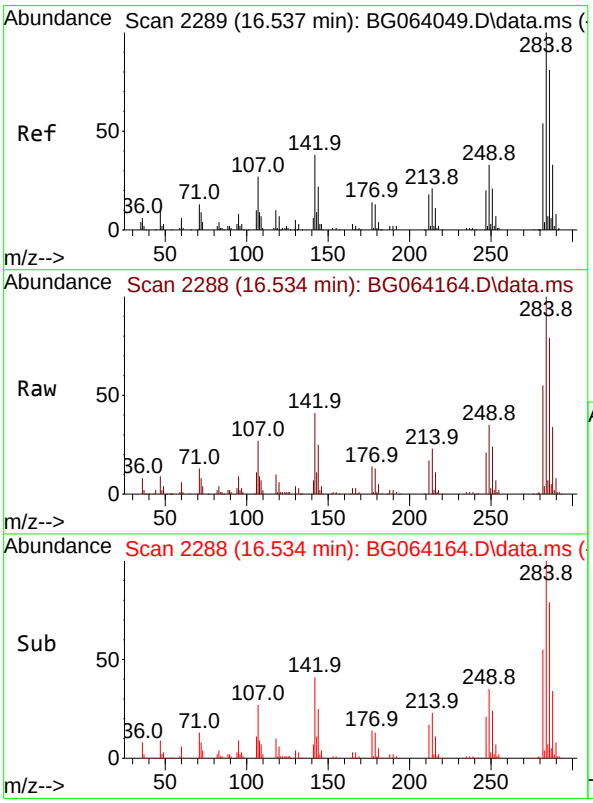
Ion	Ratio	Lower	Upper
248	100		
250	96.1	77.1	115.7
141	78.9	59.8	89.8

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

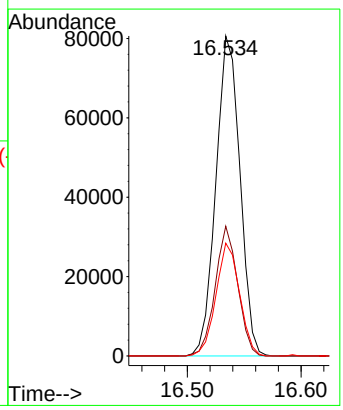


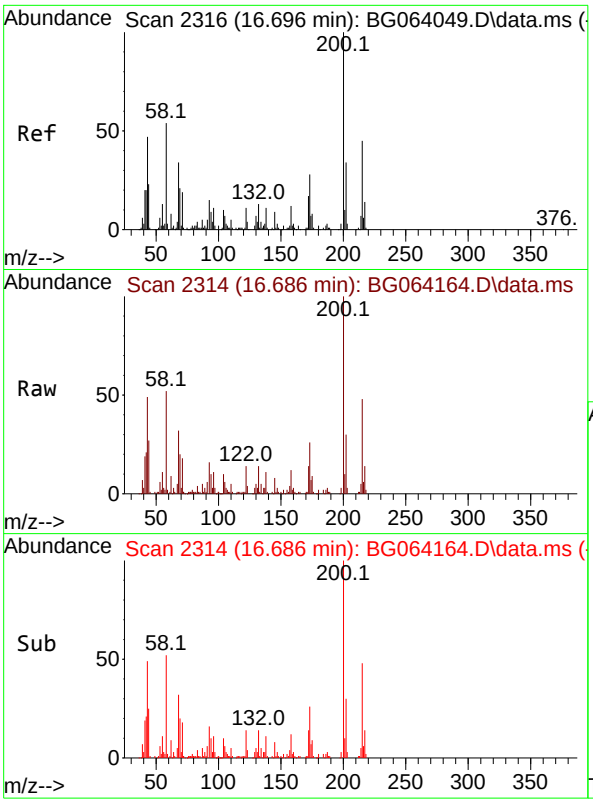


#68
Hexachlorobenzene
Concen: 40.062 ng
RT: 16.534 min Scan# 2288
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:284 Resp: 118452

Ion	Ratio	Lower	Upper
284	100		
142	40.6	30.6	45.8
249	35.2	26.6	39.8

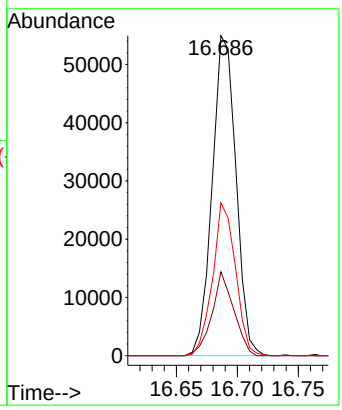




#69
Atrazine
Concen: 34.708 ng
RT: 16.686 min Scan# 2
Delta R.T. -0.010 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:200 Resp: 7453

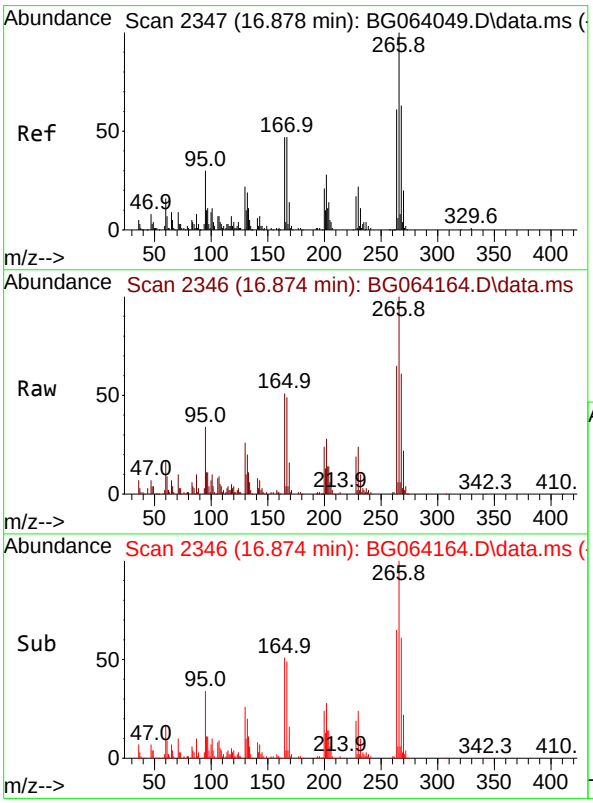
Ion	Ratio	Lower	Upper
200	100		
173	26.2	8.2	48.2
215	47.7	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

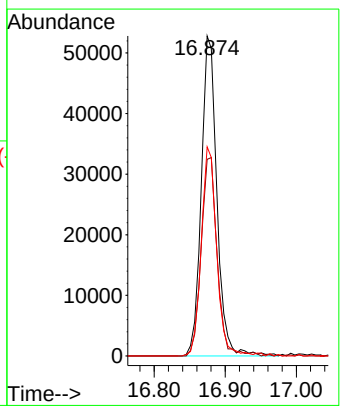
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

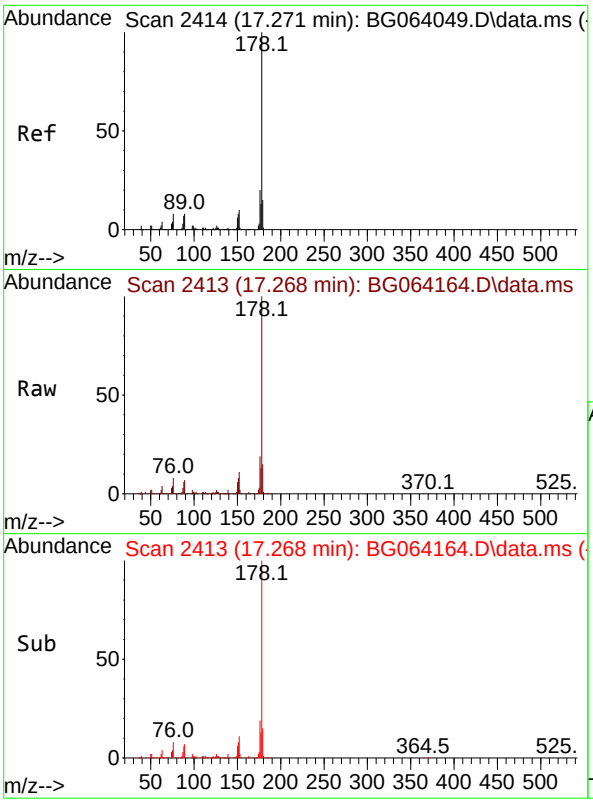


#70
Pentachlorophenol
Concen: 43.996 ng
RT: 16.874 min Scan# 2346
Delta R.T. -0.004 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:266 Resp: 80767

Ion	Ratio	Lower	Upper
266	100		
268	61.5	50.2	75.4
264	65.4	48.9	73.3

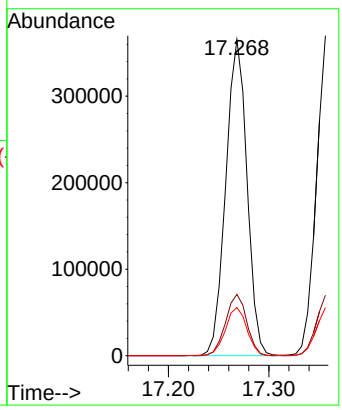




#71
Phenanthrene
Concen: 39.025 ng
RT: 17.268 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:178 Resp: 53673

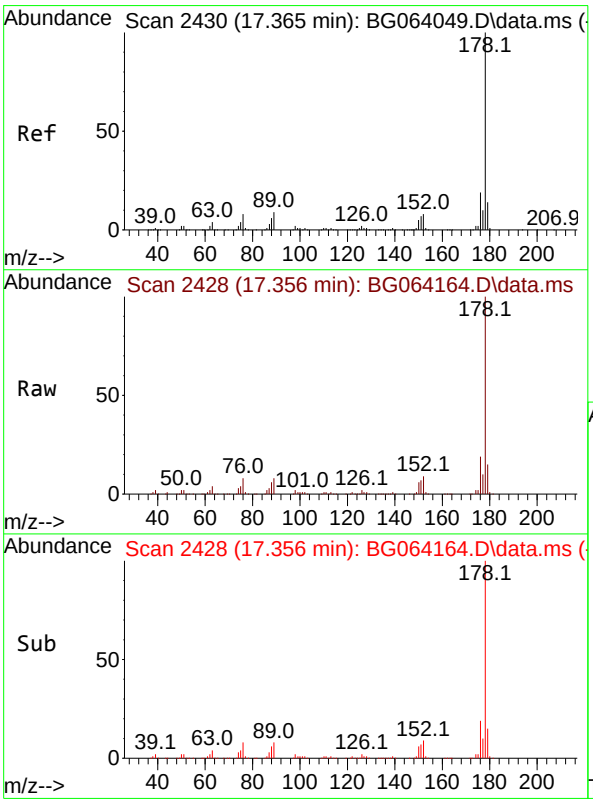
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.3	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

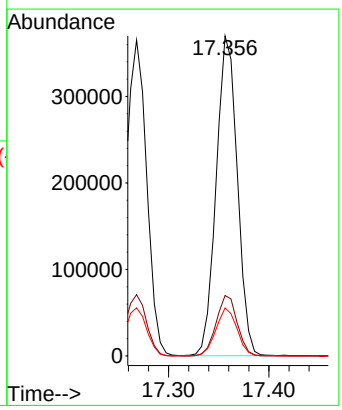
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

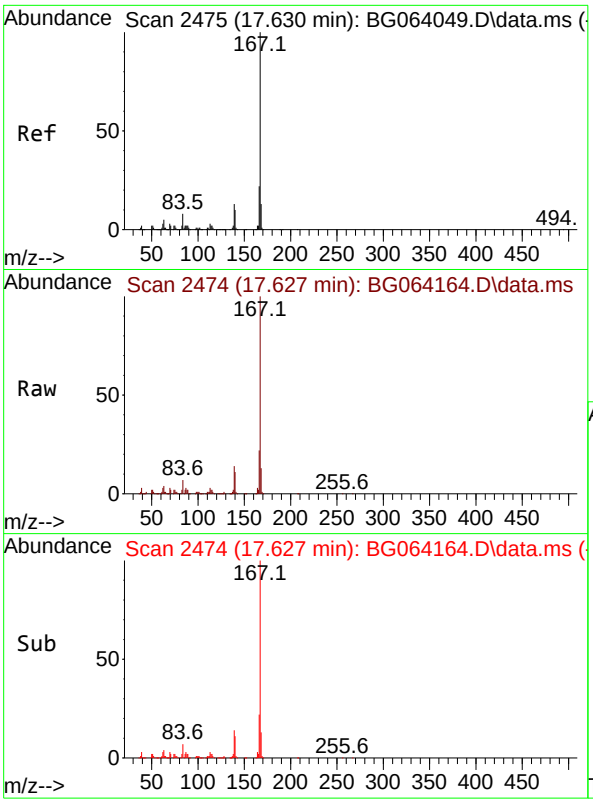


#72
Anthracene
Concen: 39.484 ng
RT: 17.356 min Scan# 2428
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:178 Resp: 539984

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.8	22.2
179	15.0	11.5	17.3

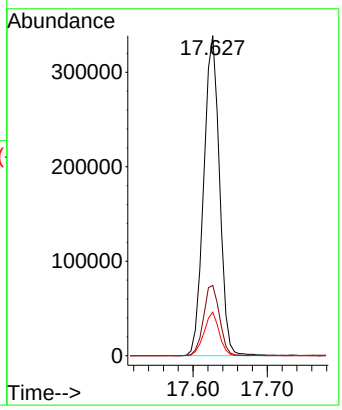




#73
Carbazole
Concen: 39.306 ng
RT: 17.627 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:167 Resp: 50189

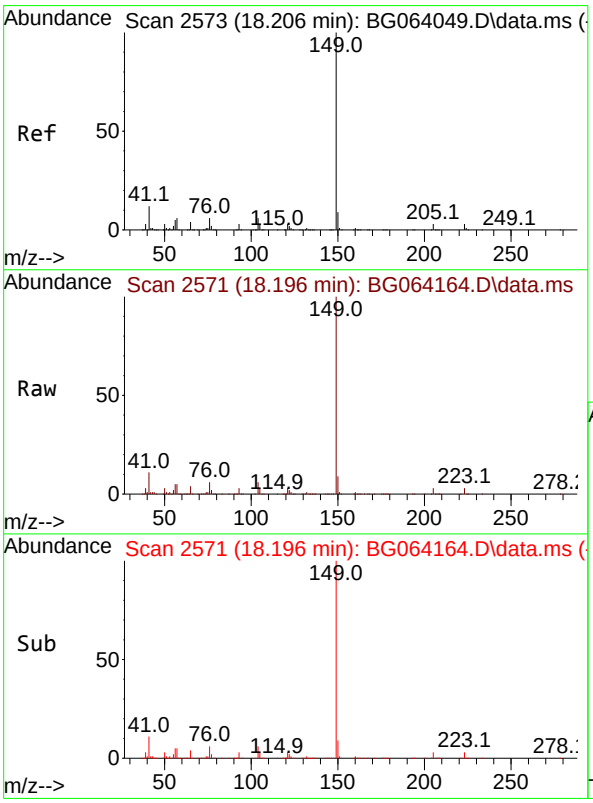
Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.0	27.0
139	13.6	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

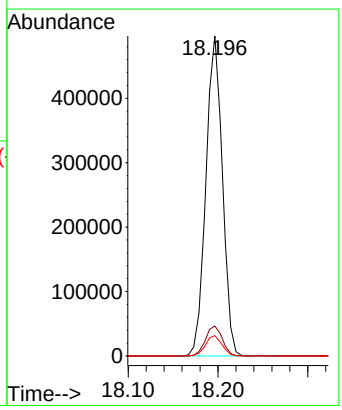
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

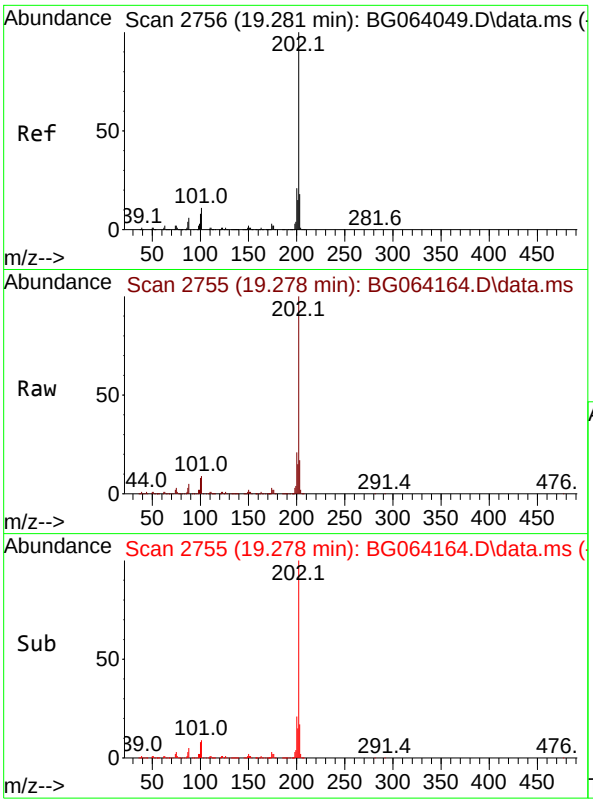


#74
Di-n-butylphthalate
Concen: 42.194 ng
RT: 18.196 min Scan# 2571
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:149 Resp: 634185

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	6.4	5.0	7.6

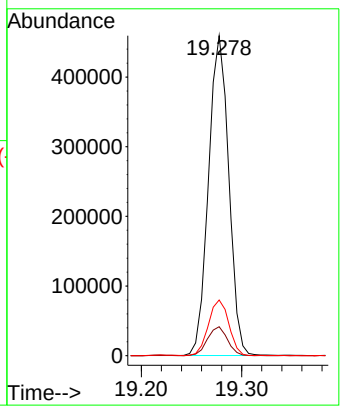




#75
Fluoranthene
Concen: 38.757 ng
RT: 19.278 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:202 Resp: 64262

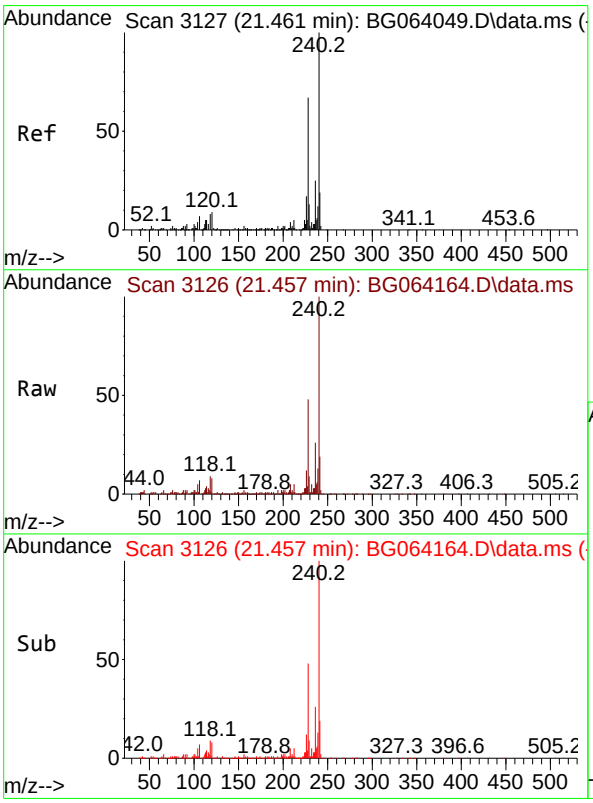
Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	30.5
203	17.4	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

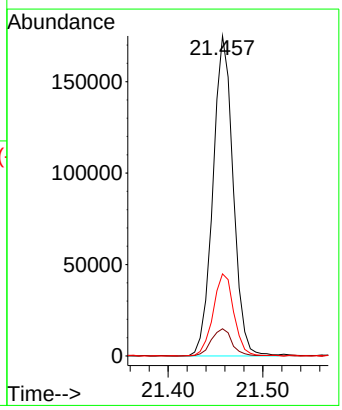
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

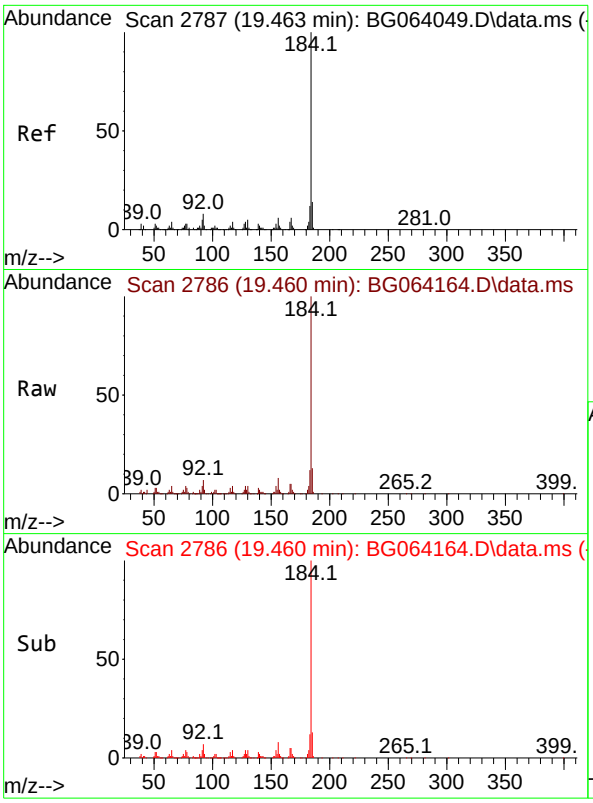


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:240 Resp: 259274

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.2	10.8
236	25.7	20.2	30.2

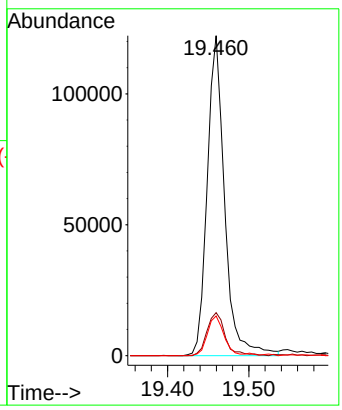




#77
Benzidine
Concen: 50.549 ng
RT: 19.460 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:184 Resp: 18148

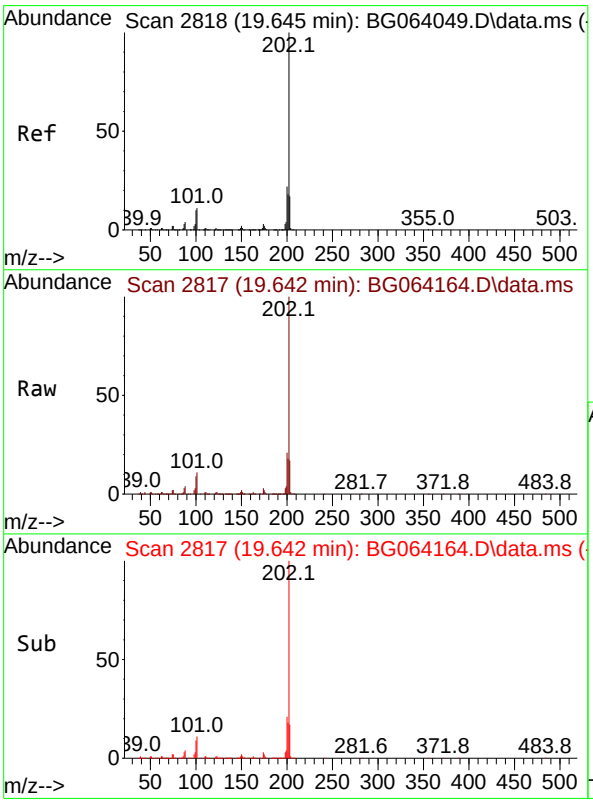
Ion	Ratio	Lower	Upper
184	100		
185	13.5	11.3	16.9
183	12.4	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

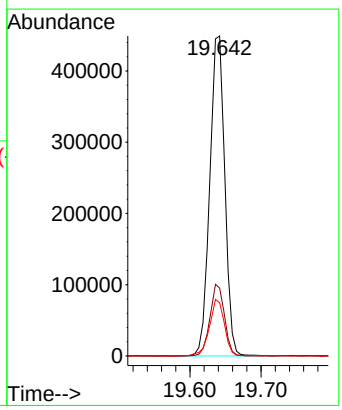
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

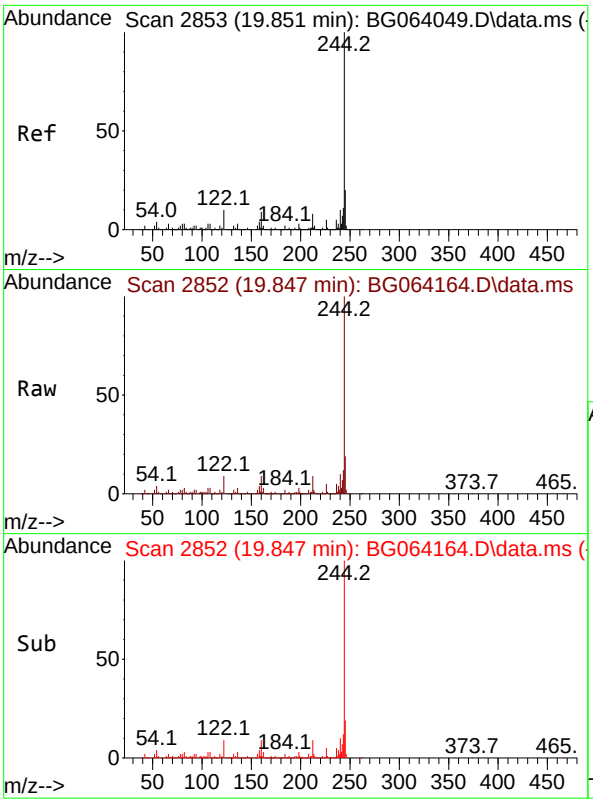


#78
Pyrene
Concen: 39.487 ng
RT: 19.642 min Scan# 2817
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:202 Resp: 659960

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.3	25.9
203	16.6	13.6	20.4

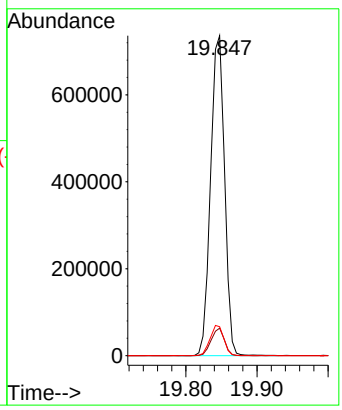




#79
Terphenyl-d14
Concen: 78.416 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:244 Resp: 100550

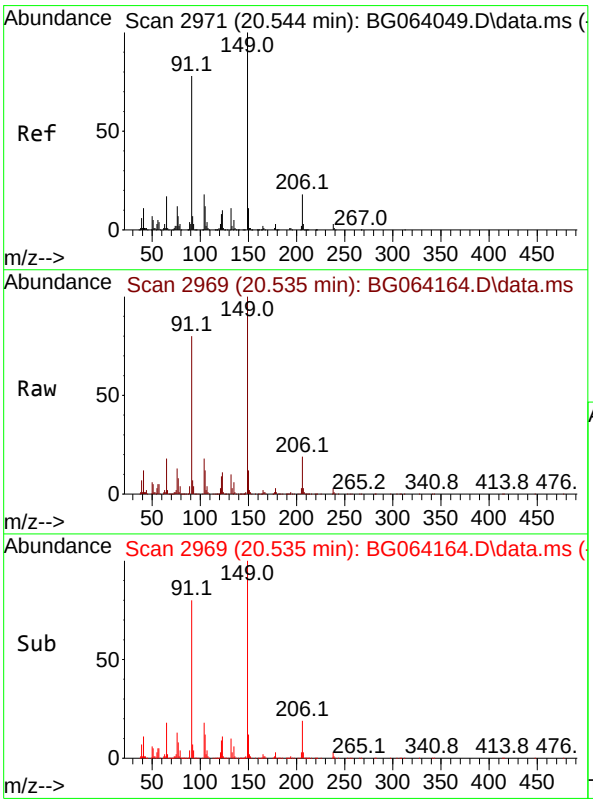
Ion	Ratio	Lower	Upper
244	100		
212	8.6	6.2	9.4
122	9.1	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

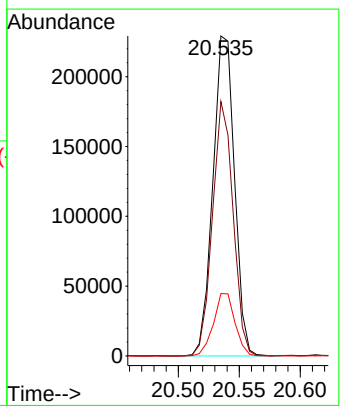
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

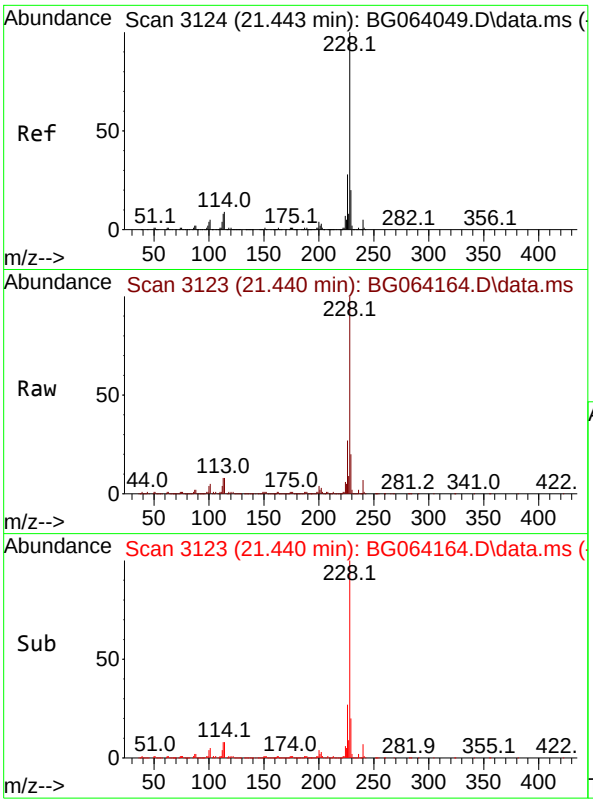


#80
Butylbenzylphthalate
Concen: 45.382 ng
RT: 20.535 min Scan# 2969
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:149 Resp: 283271

Ion	Ratio	Lower	Upper
149	100		
91	79.5	62.0	93.0
206	19.5	14.6	21.8





#81
Benzo(a)anthracene
Concen: 39.071 ng
RT: 21.440 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

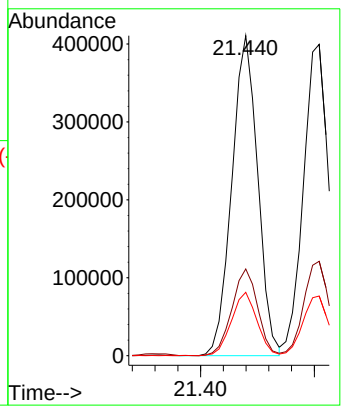
Tgt Ion:228 Resp: 64890

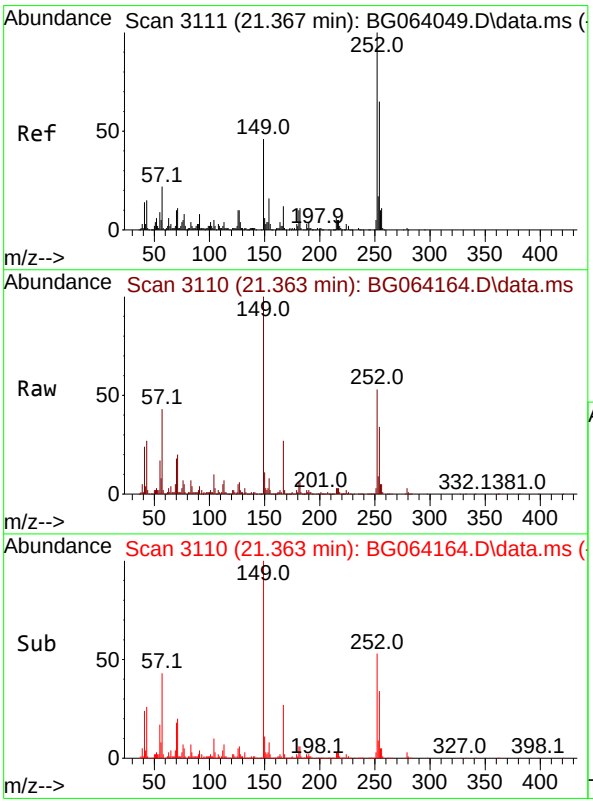
Ion	Ratio	Lower	Upper
228	100		
226	27.1	22.2	33.2
229	19.8	16.4	24.6

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

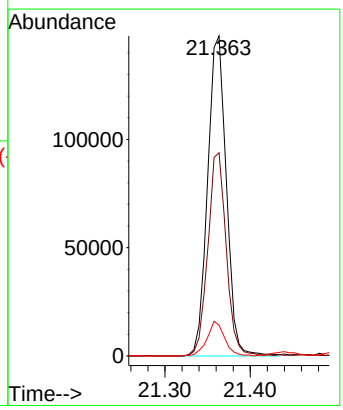


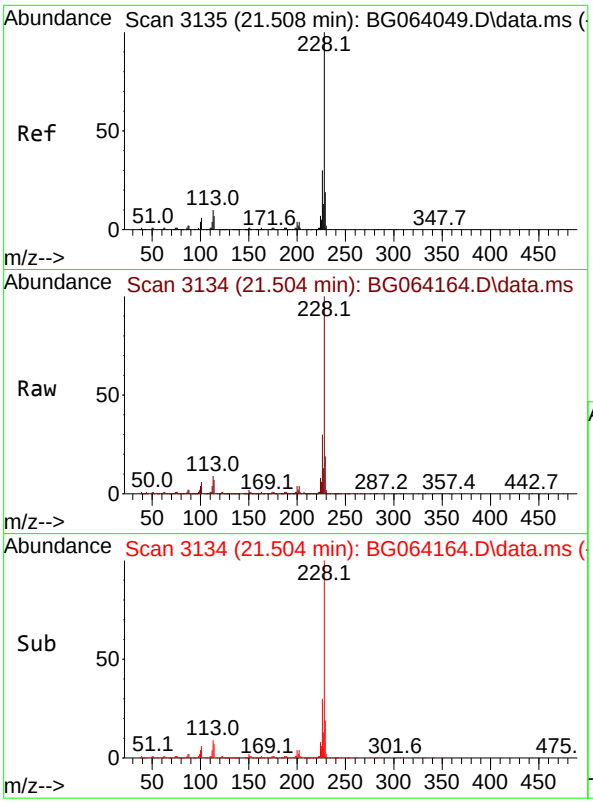


#82
3,3'-Dichlorobenzidine
Concen: 41.927 ng
RT: 21.363 min Scan# 3110
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:252 Resp: 225362

Ion	Ratio	Lower	Upper
252	100		
254	63.5	52.1	78.1
126	9.6	7.8	11.8

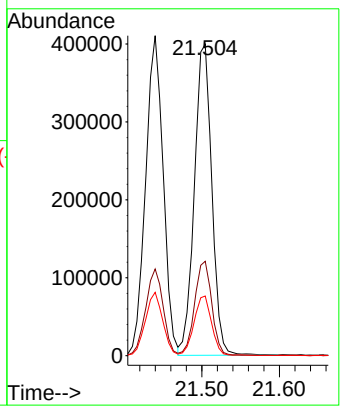




#83
Chrysene
Concen: 37.700 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:228 Resp: 62449

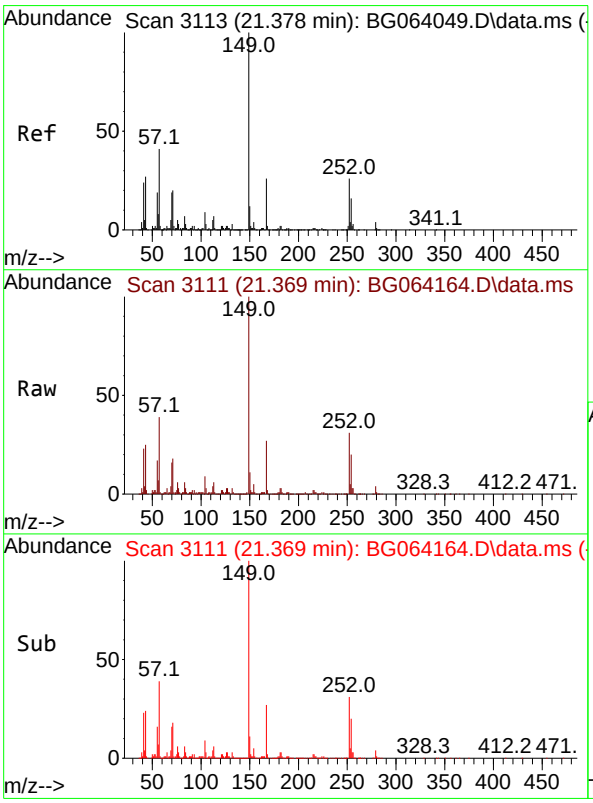
Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.9	35.9
229	19.2	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

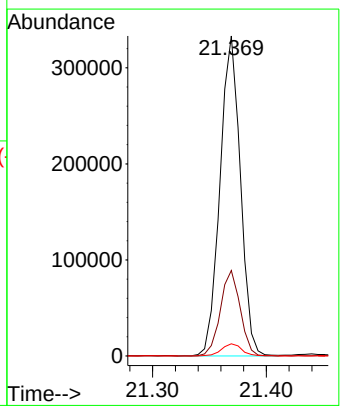
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

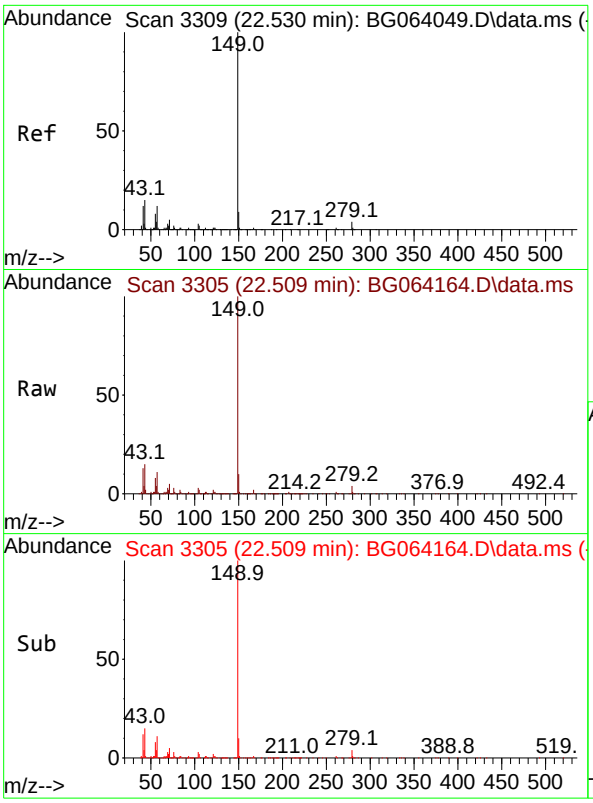


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.263 ng
RT: 21.369 min Scan# 3111
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:149 Resp: 415542

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.0	31.6
279	3.8	2.8	4.2





#85
Di-n-octyl phthalate
Concen: 46.390 ng
RT: 22.509 min Scan# 3
Delta R.T. -0.021 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

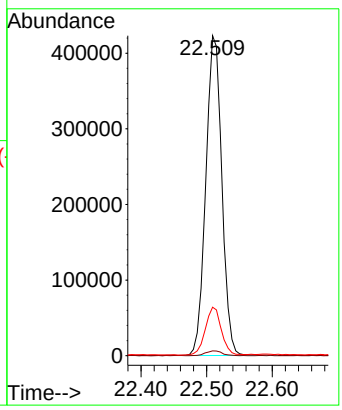
Tgt Ion:149 Resp: 71870

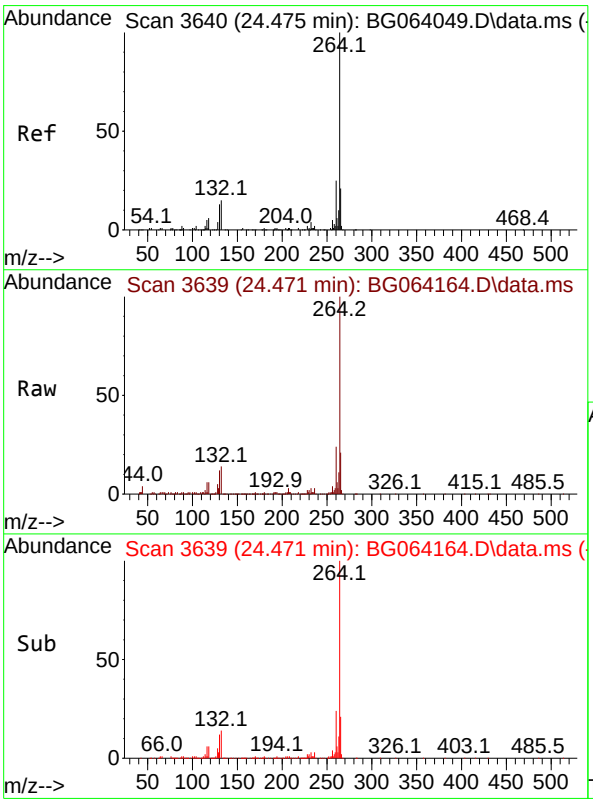
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	14.9	12.6	19.0

Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

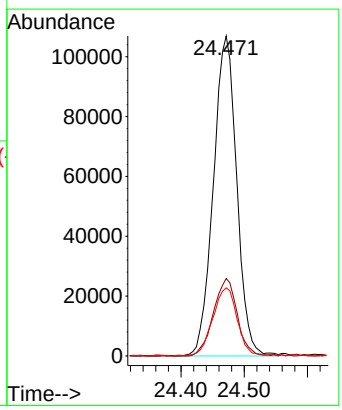


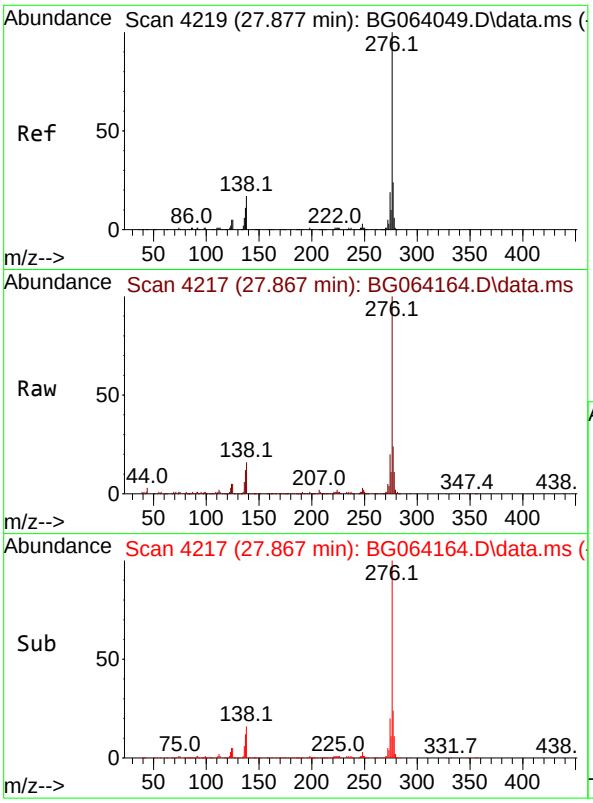


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.471 min Scan# 3639
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:264 Resp: 274699

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.6	29.4
265	21.3	16.6	25.0

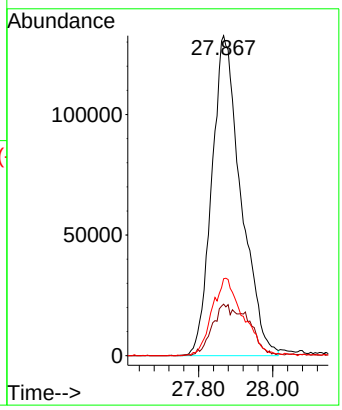




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.391 ng
RT: 27.867 min Scan# 4
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:276 Resp: 72399

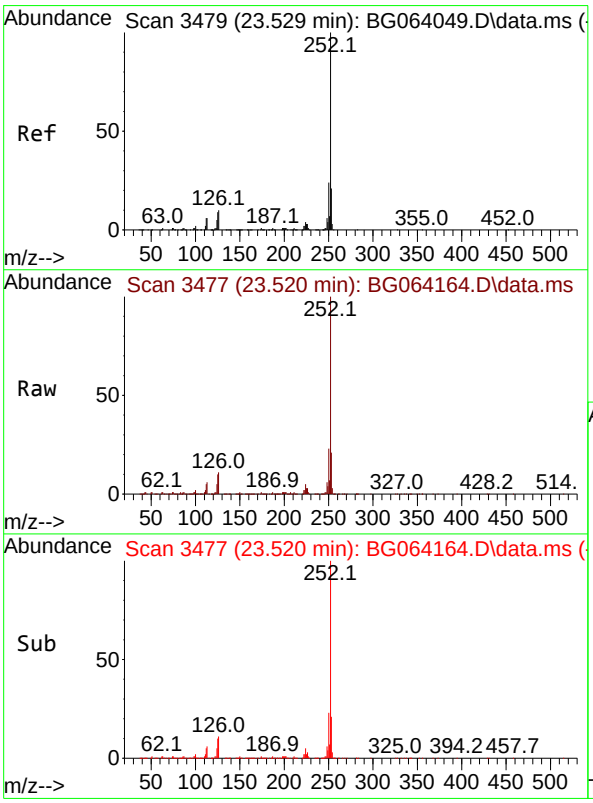
Ion	Ratio	Lower	Upper
276	100		
138	13.3	12.1	18.1
277	25.7	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

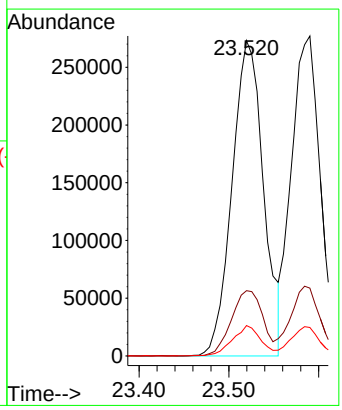
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

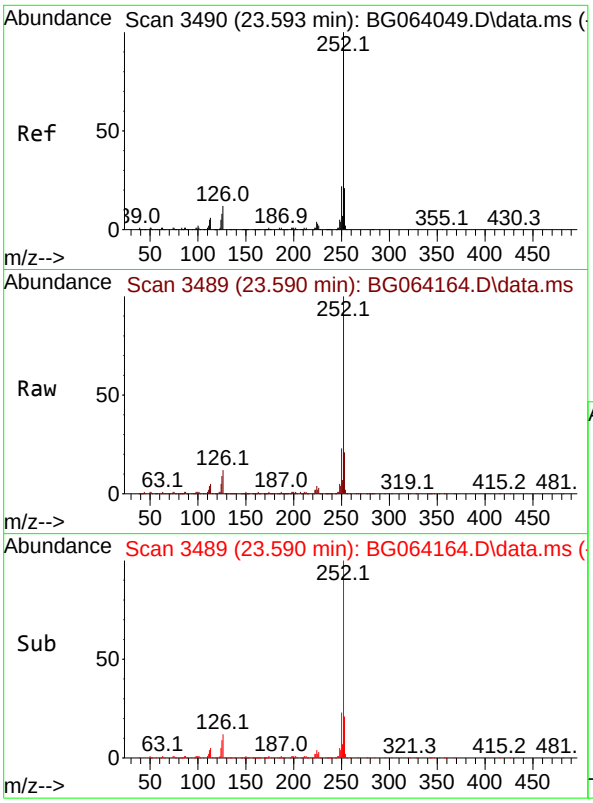


#88
Benzo(b)fluoranthene
Concen: 40.004 ng
RT: 23.520 min Scan# 3477
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:252 Resp: 664324

Ion	Ratio	Lower	Upper
252	100		
253	20.7	17.0	25.4
125	9.7	7.4	11.2

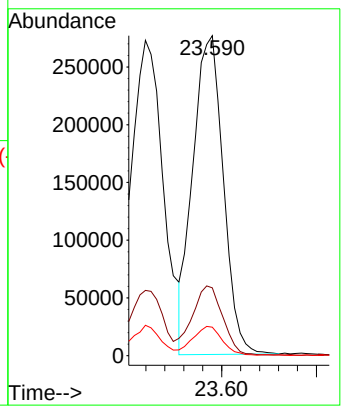




#89
Benzo(k)fluoranthene
Concen: 36.961 ng
RT: 23.590 min Scan# 34
Delta R.T. -0.003 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:252 Resp: 61575

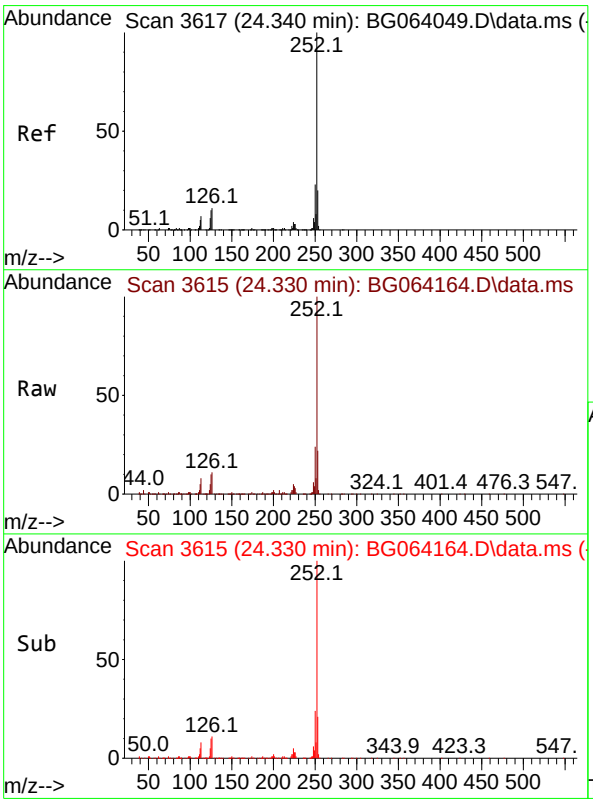
Ion	Ratio	Lower	Upper
252	100		
253	21.2	16.8	25.2
125	8.9	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

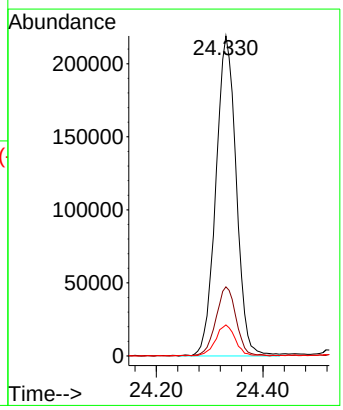
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

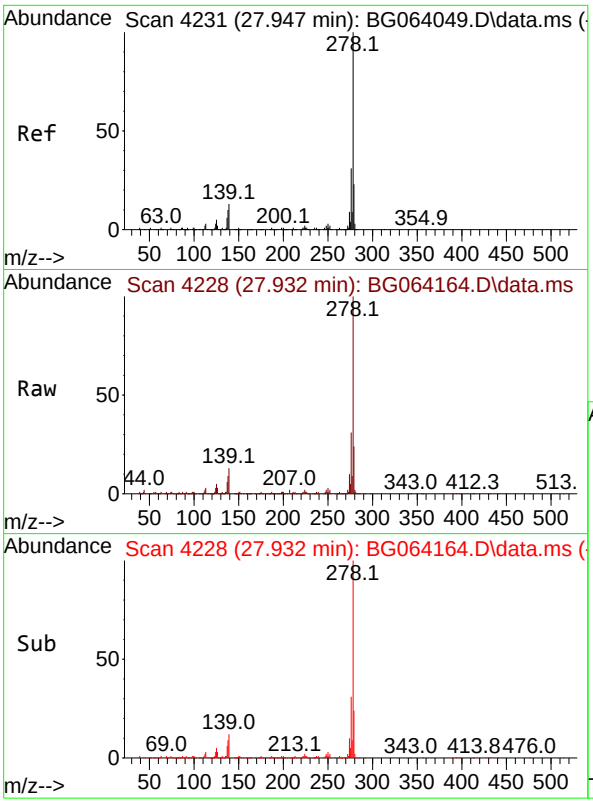


#90
Benzo(a)pyrene
Concen: 39.239 ng
RT: 24.330 min Scan# 3615
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:252 Resp: 580328

Ion	Ratio	Lower	Upper
252	100		
253	21.6	16.2	24.2
125	9.7	7.8	11.6

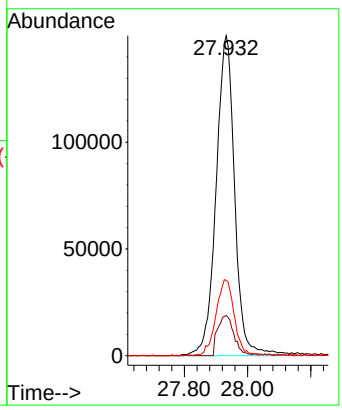




#91
Dibenzo(a,h)anthracene
Concen: 40.051 ng
RT: 27.932 min Scan# 4
Delta R.T. -0.015 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:278 Resp: 61027

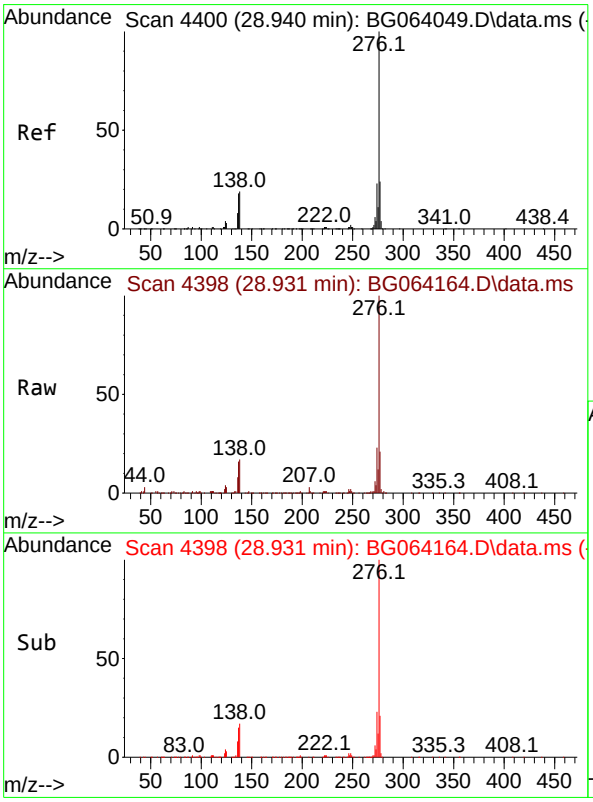
Ion	Ratio	Lower	Upper
278	100		
139	12.5	10.2	15.2
279	23.6	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

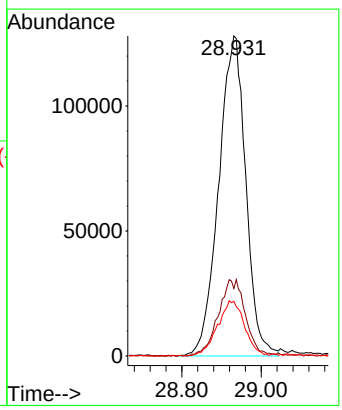
Reviewed By :Anahy Claudio 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#92
Benzo(g,h,i)perylene
Concen: 38.770 ng
RT: 28.931 min Scan# 4398
Delta R.T. -0.009 min
Lab File: BG064164.D
Acq: 3 Apr 2025 13:04

Tgt Ion:276 Resp: 606526

Ion	Ratio	Lower	Upper
276	100		
277	21.1	19.5	29.3
138	17.1	15.4	23.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
2		1,4-Dioxane	0.580	0.514	11.4	80	0.00
3		Pyridine	1.412	1.238	12.3	72	0.00
4		n-Nitrosodimethylamine	1.009	0.934	7.4	80	0.00
5	S	2-Fluorophenol	1.281	1.216	5.1	82	0.00
6		Aniline	1.710	1.587	7.2	80	0.00
7	S	Phenol-d6	1.742	1.737	0.3	86	0.00
8		2-Chlorophenol	1.376	1.358	1.3	86	0.00
9		Benzaldehyde	1.013	0.930	8.2	85	0.00
10	C	Phenol	1.784	1.707	4.3	83	0.00
11		bis(2-Chloroethyl)ether	1.399	1.271	9.1	82	0.00
12		1,3-Dichlorobenzene	1.511	1.428	5.5	84	0.00
13	C	1,4-Dichlorobenzene	1.548	1.451	6.3	83	0.00
14		1,2-Dichlorobenzene	1.493	1.437	3.8	86	0.00
15		Benzyl Alcohol	1.346	1.446	-7.4	92	0.00
16		2,2'-oxybis(1-Chloropropane	3.145	2.896	7.9	81	0.00
17		2-Methylphenol	1.184	1.221	-3.1	88	0.00
18		Hexachloroethane	0.542	0.568	-4.8	90	0.00
19	P	n-Nitroso-di-n-propylamine	1.223	1.233	-0.8	85	0.00
20		3+4-Methylphenols	1.630	1.653	-1.4	88	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	91	0.00
22		Acetophenone	0.548	0.522	4.7	85	0.00
23	S	Nitrobenzene-d5	0.362	0.386	-6.6	92	0.00
24		Nitrobenzene	0.374	0.395	-5.6	91	0.00
25		Isophorone	0.724	0.678	6.4	83	0.00
26	C	2-Nitrophenol	0.112	0.158	-41.1#	118	0.00
27		2,4-Dimethylphenol	0.217	0.222	-2.3	89	0.00
28		bis(2-Chloroethoxy)methane	0.439	0.418	4.8	86	0.00
29	C	2,4-Dichlorophenol	0.274	0.292	-6.6	93	0.00
30		1,2,4-Trichlorobenzene	0.331	0.325	1.8	89	0.00
31		Naphthalene	1.078	1.071	0.6	91	0.00
32		Benzoic acid	0.170	0.252	-48.2#	134	0.00
33		4-Chloroaniline	0.394	0.399	-1.3	87	0.00
34	C	Hexachlorobutadiene	0.217	0.220	-1.4	92	0.00
35		Caprolactam	0.105	0.111	-5.7	92	0.00
36	C	4-Chloro-3-methylphenol	0.359	0.397	-10.6	97	0.00
37		2-Methylnaphthalene	0.761	0.798	-4.9	95	0.00
38		1-Methylnaphthalene	0.746	0.785	-5.2	95	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	0.571	0.557	2.5	95	0.00
41	P	Hexachlorocyclopentadiene	0.161	0.224	-39.1#	128	0.00
42	S	2,4,6-Tribromophenol	0.222	0.261	-17.6	108	0.00
43	C	2,4,6-Trichlorophenol	0.337	0.362	-7.4	101	0.00
44		2,4,5-Trichlorophenol	0.374	0.411	-9.9	101	0.00
45	S	2-Fluorobiphenyl	1.318	1.287	2.4	94	0.00
46		1,1'-Biphenyl	1.511	1.451	4.0	94	0.00
47		2-Chloronaphthalene	1.102	1.045	5.2	92	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.318	0.396	-24.5	113	0.00
49		Acenaphthylene	1.743	1.673	4.0	93	0.00
50		Dimethylphthalate	1.476	1.455	1.4	95	0.00
51		2,6-Dinitrotoluene	0.261	0.309	-18.4	105	0.00
52	C	Acenaphthene	1.170	1.118	4.4	94	0.00
53		3-Nitroaniline	0.285	0.312	-9.5	98	0.00
54	P	2,4-Dinitrophenol	0.102	0.153	-50.0#	152#	0.00
55		Dibenzofuran	1.895	1.831	3.4	94	0.00
56	P	4-Nitrophenol	0.239	0.264	-10.5	102	0.00
57		2,4-Dinitrotoluene	0.357	0.438	-22.7	108	0.00
58		Fluorene	1.476	1.455	1.4	98	0.00
59		2,3,4,6-Tetrachlorophenol	0.365	0.414	-13.4	104	-0.08
60		Diethylphthalate	1.603	1.624	-1.3	97	0.00
61		4-Chlorophenyl-phenylether	0.733	0.722	1.5	98	0.00
62		4-Nitroaniline	0.308	0.341	-10.7	98	0.00
63		Azobenzene	1.710	1.636	4.3	93	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	0.076	0.112	-47.4#	149	0.00
66	c	n-Nitrosodiphenylamine	0.566	0.554	2.1	95	0.00
67		4-Bromophenyl-phenylether	0.205	0.211	-2.9	100	0.00
68		Hexachlorobenzene	0.229	0.230	-0.4	100	0.00
69		Atrazine	0.167	0.145	13.2	90	0.00
70	C	Pentachlorophenol	0.142	0.157	-10.6	105	0.00
71		Phenanthrene	1.067	1.041	2.4	96	0.00
72		Anthracene	1.061	1.047	1.3	96	0.00
73		Carbazole	0.990	0.973	1.7	94	0.00
74		Di-n-butylphthalate	1.166	1.230	-5.5	97	0.00
75	C	Fluoranthene	1.286	1.246	3.1	94	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
77		Benzidine	0.277	0.350	-26.4#	106	0.00
78		Pyrene	1.289	1.273	1.2	92	0.00
79	S	Terphenyl-d14	0.989	0.970	1.9	92	0.00
80		Butylbenzylphthalate	0.423	0.546	-29.1#	112	0.00
81		Benzo(a)anthracene	1.281	1.251	2.3	91	0.00
82		3,3'-Dichlorobenzidine	0.415	0.435	-4.8	92	0.00
83		Chrysene	1.278	1.204	5.8	88	0.00
84		Bis(2-ethylhexyl)phthalate	0.693	0.801	-15.6	101	0.00
85	c	Di-n-octyl phthalate	1.195	1.386	-16.0	106	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	95	0.00
87		Indeno(1,2,3-cd)pyrene	1.338	1.318	1.5	91	0.00
88		Benzo(b)fluoranthene	1.209	1.209	0.0	94	0.00
89		Benzo(k)fluoranthene	1.213	1.121	7.6	85	0.00
90	C	Benzo(a)pyrene	1.077	1.056	1.9	90	0.00
91		Dibenzo(a,h)anthracene	1.109	1.111	-0.2	93	-0.01
92		Benzo(g,h,i)perylene	1.139	1.104	3.1	91	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	91	0.00
2		1,4-Dioxane	40.000	35.387	11.5	80	0.00
3		Pyridine	40.000	35.068	12.3	72	0.00
4		n-Nitrosodimethylamine	40.000	37.032	7.4	80	0.00
5	S	2-Fluorophenol	80.000	75.960	5.1	82	0.00
6		Aniline	40.000	37.132	7.2	80	0.00
7	S	Phenol-d6	80.000	79.749	0.3	86	0.00
8		2-Chlorophenol	40.000	39.498	1.3	86	0.00
9		Benzaldehyde	40.000	36.714	8.2	85	0.00
10	C	Phenol	40.000	38.273	4.3	83	0.00
11		bis(2-Chloroethyl)ether	40.000	36.356	9.1	82	0.00
12		1,3-Dichlorobenzene	40.000	37.811	5.5	84	0.00
13	C	1,4-Dichlorobenzene	40.000	37.485	6.3	83	0.00
14		1,2-Dichlorobenzene	40.000	38.510	3.7	86	0.00
15		Benzyl Alcohol	40.000	42.949	-7.4	92	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.829	7.9	81	0.00
17		2-Methylphenol	40.000	41.235	-3.1	88	0.00
18		Hexachloroethane	40.000	41.940	-4.8	90	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.336	-0.8	85	0.00
20		3+4-Methylphenols	40.000	40.565	-1.4	88	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	91	0.00
22		Acetophenone	40.000	38.113	4.7	85	0.00
23	S	Nitrobenzene-d5	80.000	85.429	-6.8	92	0.00
24		Nitrobenzene	40.000	42.235	-5.6	91	0.00
25		Isophorone	40.000	37.430	6.4	83	0.00
26	C	2-Nitrophenol	40.000	48.689	-21.7#	118	0.00
27		2,4-Dimethylphenol	40.000	40.907	-2.3	89	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.083	4.8	86	0.00
29	C	2,4-Dichlorophenol	40.000	42.643	-6.6	93	0.00
30		1,2,4-Trichlorobenzene	40.000	39.309	1.7	89	0.00
31		Naphthalene	40.000	39.722	0.7	91	0.00
32		Benzoic acid	40.000	50.168	-25.4#	134	0.00
33		4-Chloroaniline	40.000	40.475	-1.2	87	0.00
34	C	Hexachlorobutadiene	40.000	40.574	-1.4	92	0.00
35		Caprolactam	40.000	42.361	-5.9	92	0.00
36	C	4-Chloro-3-methylphenol	40.000	44.169	-10.4	97	0.00
37		2-Methylnaphthalene	40.000	41.937	-4.8	95	0.00
38		1-Methylnaphthalene	40.000	42.088	-5.2	95	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	100	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	39.010	2.5	95	0.00
41	P	Hexachlorocyclopentadiene	40.000	55.656	-39.1#	128	0.00
42	S	2,4,6-Tribromophenol	80.000	93.837	-17.3	108	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.978	-7.4	101	0.00
44		2,4,5-Trichlorophenol	40.000	43.945	-9.9	101	0.00
45	S	2-Fluorobiphenyl	80.000	78.142	2.3	94	0.00
46		1,1'-Biphenyl	40.000	38.424	3.9	94	0.00
47		2-Chloronaphthalene	40.000	37.945	5.1	92	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	44.074	-10.2	113	0.00
49		Acenaphthylene	40.000	38.382	4.0	93	0.00
50		Dimethylphthalate	40.000	39.426	1.4	95	0.00
51		2,6-Dinitrotoluene	40.000	41.696	-4.2	105	0.00
52	C	Acenaphthene	40.000	38.229	4.4	94	0.00
53		3-Nitroaniline	40.000	43.696	-9.2	98	0.00
54	P	2,4-Dinitrophenol	40.000	51.990	-30.0#	152	0.00
55		Dibenzofuran	40.000	38.644	3.4	94	0.00
56	P	4-Nitrophenol	40.000	44.070	-10.2	102	0.00
57		2,4-Dinitrotoluene	40.000	42.785	-7.0	108	0.00
58		Fluorene	40.000	39.423	1.4	98	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	45.389	-13.5	104	-0.08
60		Diethylphthalate	40.000	40.534	-1.3	97	0.00
61		4-Chlorophenyl-phenylether	40.000	39.373	1.6	98	0.00
62		4-Nitroaniline	40.000	44.300	-10.7	98	0.00
63		Azobenzene	40.000	38.258	4.4	93	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	40.000	51.147	-27.9#	149	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.119	2.2	95	0.00
67		4-Bromophenyl-phenylether	40.000	41.251	-3.1	100	0.00
68		Hexachlorobenzene	40.000	40.062	-0.2	100	0.00
69		Atrazine	40.000	34.708	13.2	90	0.00
70	C	Pentachlorophenol	40.000	43.996	-10.0	105	0.00
71		Phenanthrene	40.000	39.025	2.4	96	0.00
72		Anthracene	40.000	39.484	1.3	96	0.00
73		Carbazole	40.000	39.306	1.7	94	0.00
74		Di-n-butylphthalate	40.000	42.194	-5.5	97	0.00
75	C	Fluoranthene	40.000	38.757	3.1	94	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	95	0.00
77		Benzidine	40.000	50.549	-26.4#	106	0.00
78		Pyrene	40.000	39.487	1.3	92	0.00
79	S	Terphenyl-d14	80.000	78.416	2.0	92	0.00
80		Butylbenzylphthalate	40.000	45.382	-13.5	112	0.00
81		Benzo(a)anthracene	40.000	39.071	2.3	91	0.00
82		3,3'-Dichlorobenzidine	40.000	41.927	-4.8	92	0.00
83		Chrysene	40.000	37.700	5.7	88	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	46.263	-15.7	101	0.00
85	c	Di-n-octyl phthalate	40.000	46.390	-16.0	106	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	95	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	39.391	1.5	91	0.00
88		Benzo(b)fluoranthene	40.000	40.004	-0.0	94	0.00
89		Benzo(k)fluoranthene	40.000	36.961	7.6	85	0.00
90	C	Benzo(a)pyrene	40.000	39.239	1.9	90	0.00
91		Dibenzo(a,h)anthracene	40.000	40.051	-0.1	93	-0.01
92		Benzo(g,h,i)perylene	40.000	38.770	3.1	91	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064164.D
Acq On : 3 Apr 2025 13:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_G
LabSampleId :
SSTDCCC040

Quant Time: Apr 03 13:40:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

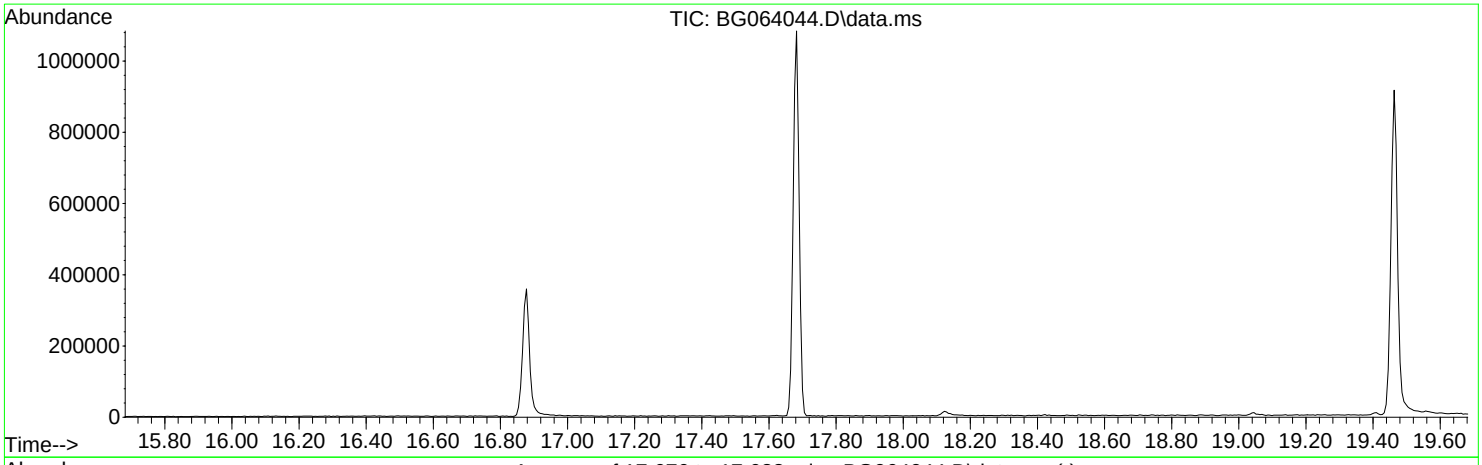
QC SAMPLE DATA

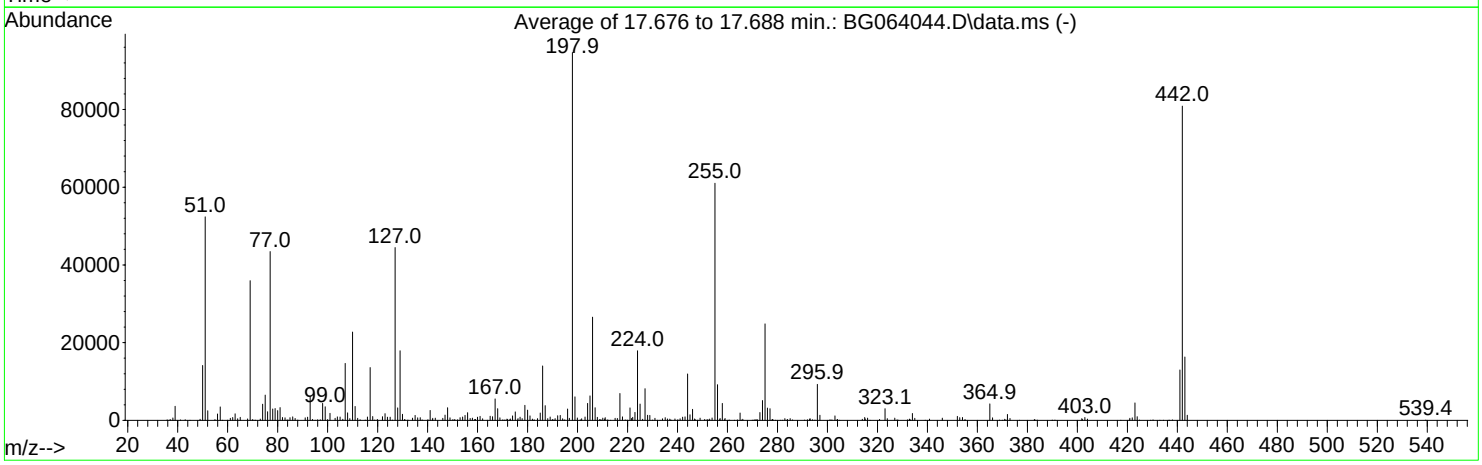
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064044.D
Acq On : 5 Mar 2025 8:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025





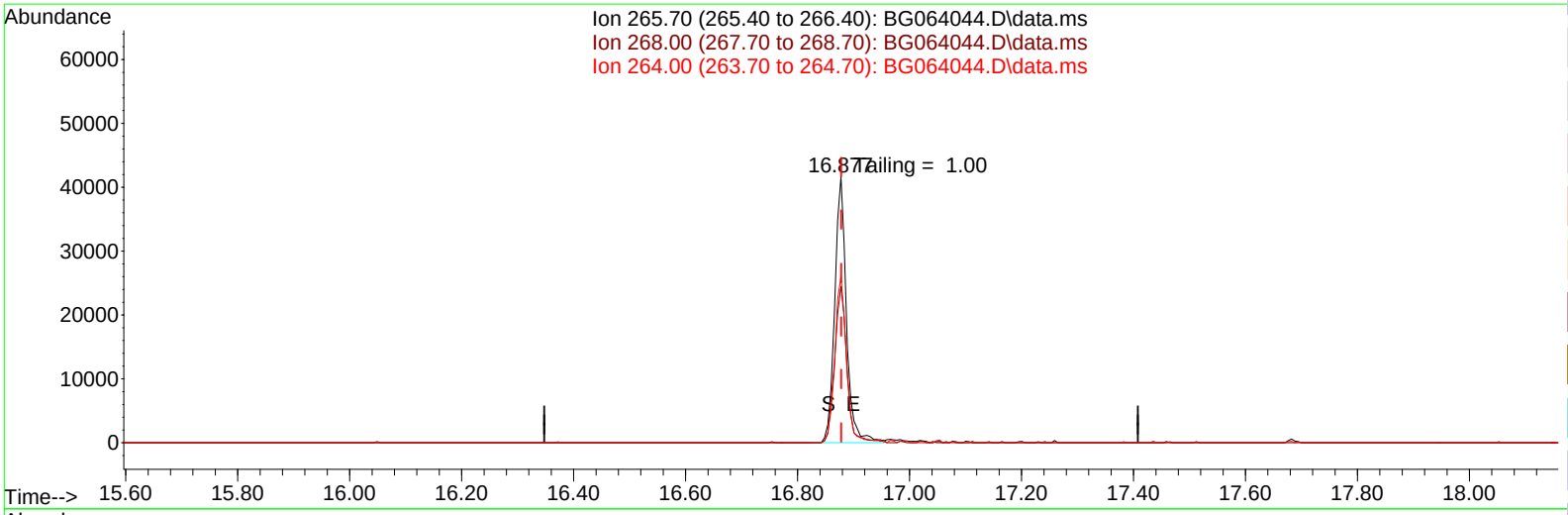
AutoFind: Scans 2483, 2484, 2485; Background Corrected with Scan 2476

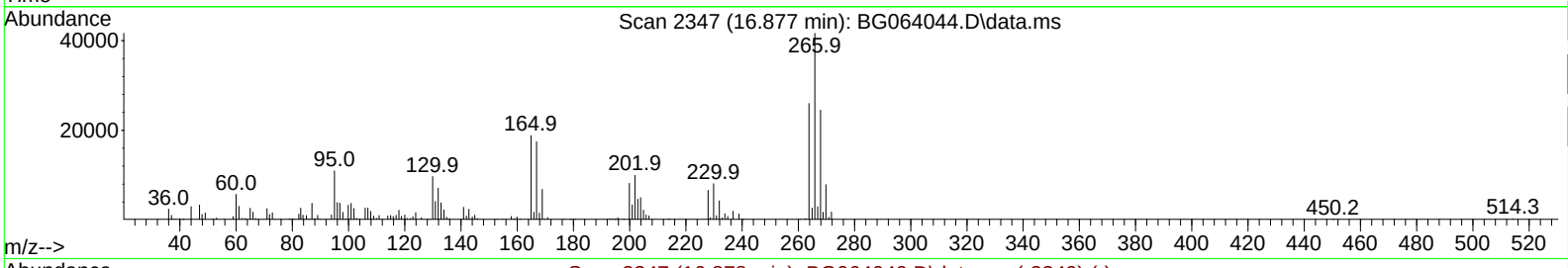
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	55.3	52392	PASS
68	69	0.00	2	1.1	386	PASS
69	198	0.00	100	38.0	35944	PASS
70	69	0.00	2	0.5	177	PASS
127	198	10	80	47.0	44448	PASS
197	198	0.00	2	0.6	541	PASS
198	198	100	100	100.0	94661	PASS
199	198	5	9	6.4	6065	PASS
275	198	10	60	26.2	24824	PASS
365	198	1	100	4.5	4228	PASS
441	198	0.01	100	13.7	12975	PASS
442	442	50	100	100.0	80851	PASS
443	442	15	24	20.2	16317	PASS

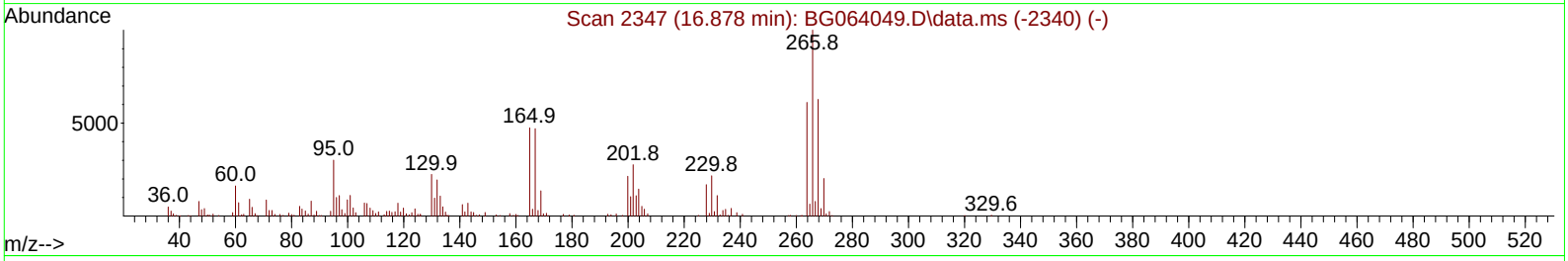
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064044.D
Acq On : 5 Mar 2025 8:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Mar 05 15:40:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064044.D\data.ms

(70) Pentachlorophenol (C)

16.877min (-0.001) 14067.66 ng

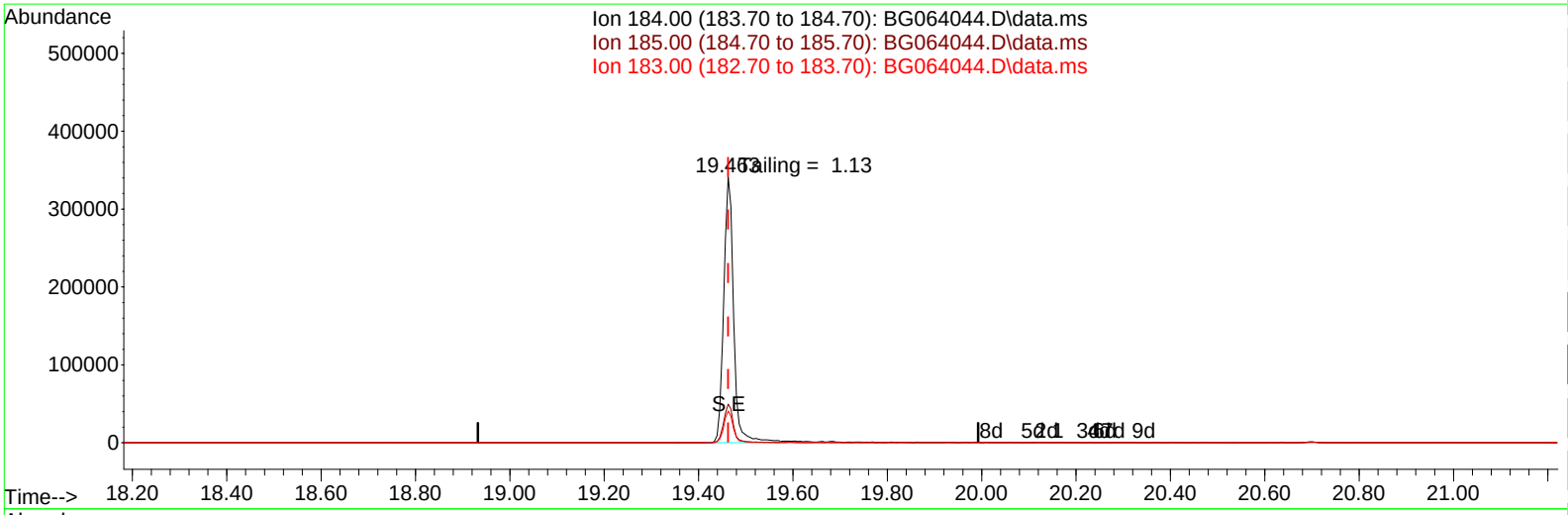
response 60892

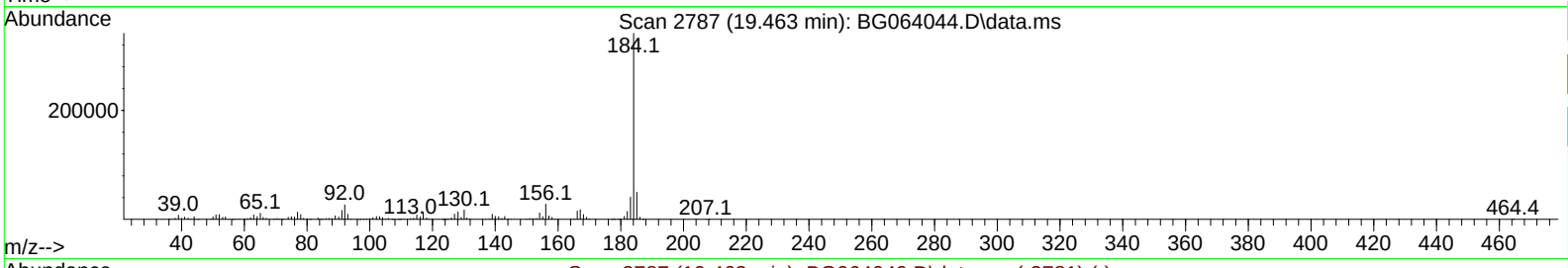
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.80	58.85
264.00	61.10	62.43
0.00	0.00	0.00

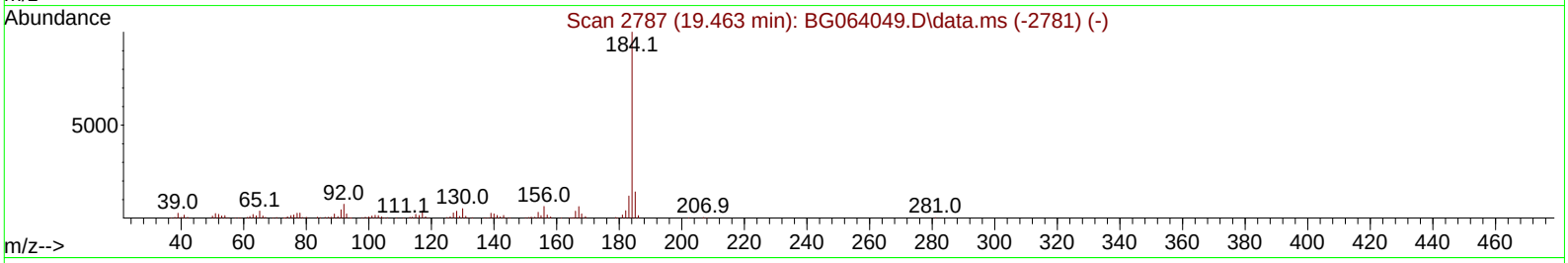
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030525\
Data File : BG064044.D
Acq On : 5 Mar 2025 8:15
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Mar 05 15:40:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064044.D\data.ms

(77) Benzidine

19.463min (-0.000) 687177.88 ng m

response 523350

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.57
183.00	11.90	11.97
0.00	0.00	0.00

Instrument :
BNA_G
ClientSampleId :
DFTPP

DDT Breakdown

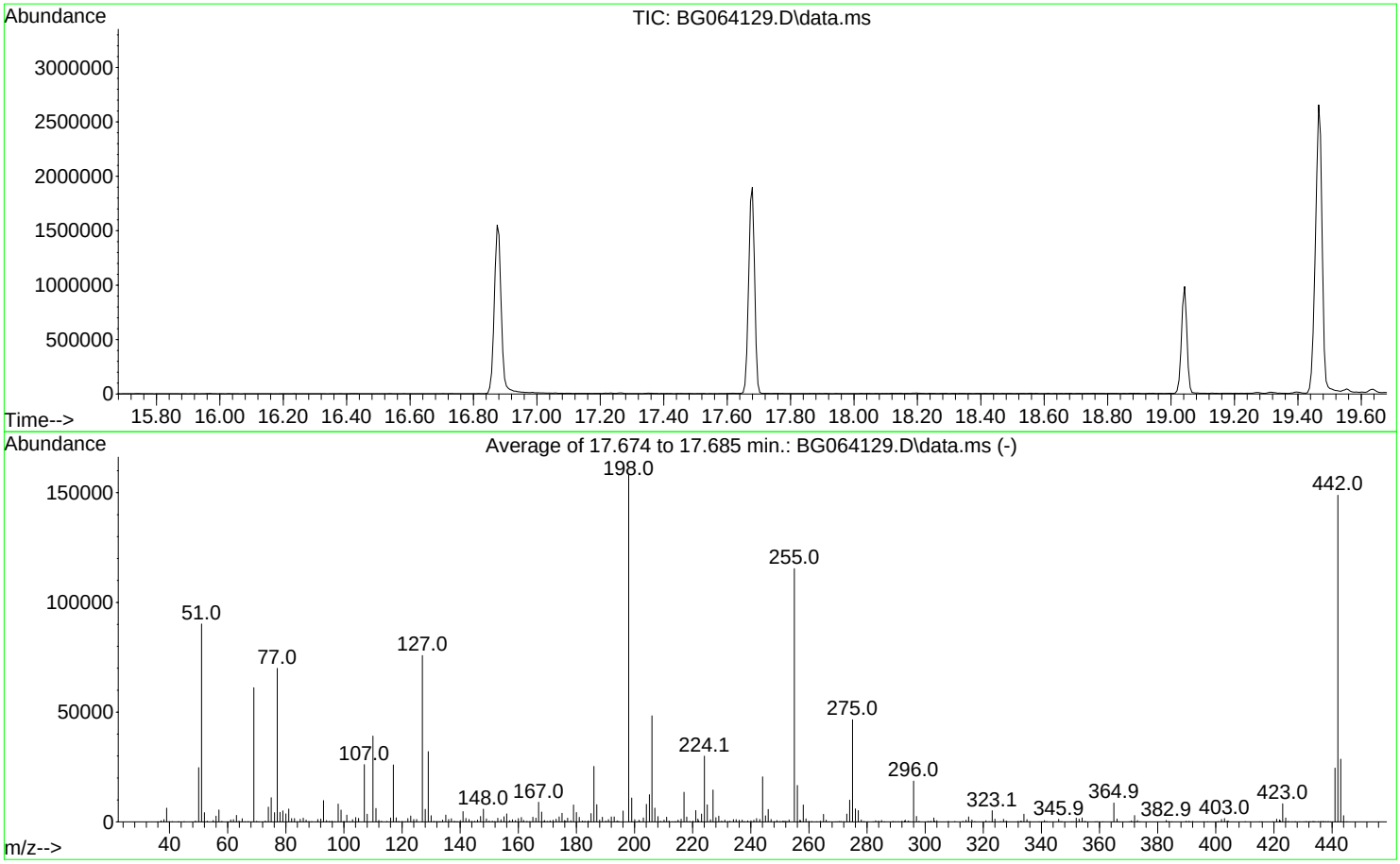
Date	Instrument Name	DFTPP Data File
3/5/2025	BNA_G	BG064044.D
Compound Name	**Response**	**Retention Time**
DDT	173171	20.702
DDD	5056	20.256
DDE	59	19.762
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5115	178286	2.87

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064129.D
Acq On : 1 Apr 2025 10:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025



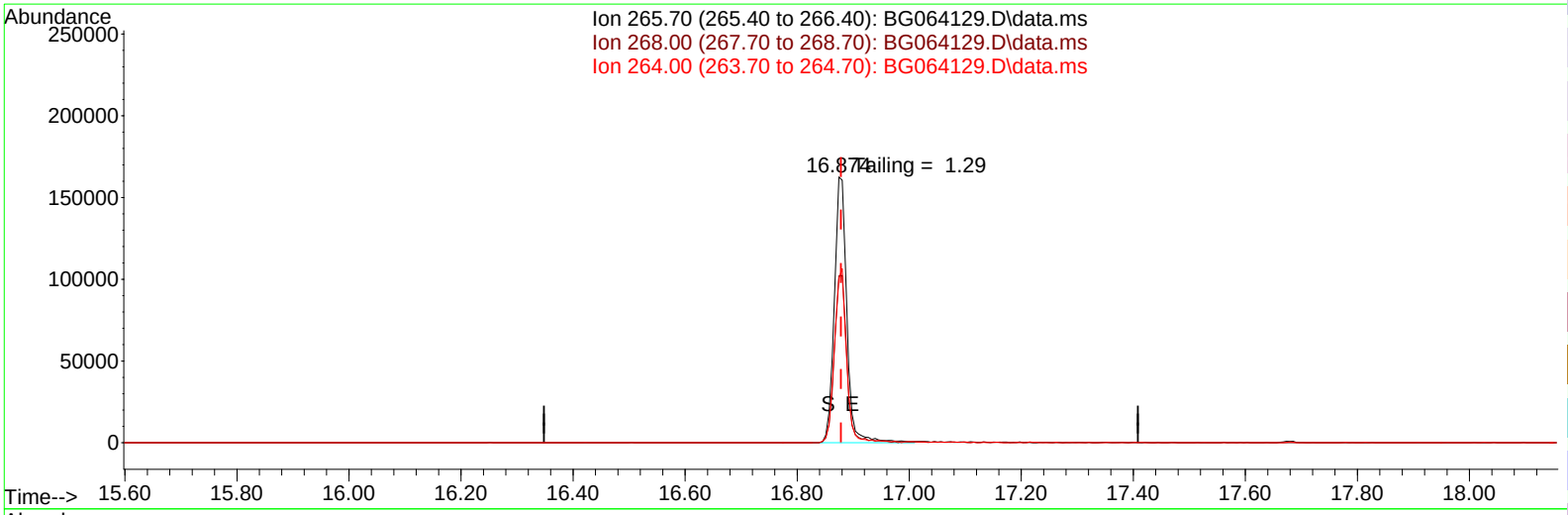
AutoFind: Scans 2482, 2483, 2484; Background Corrected with Scan 2475

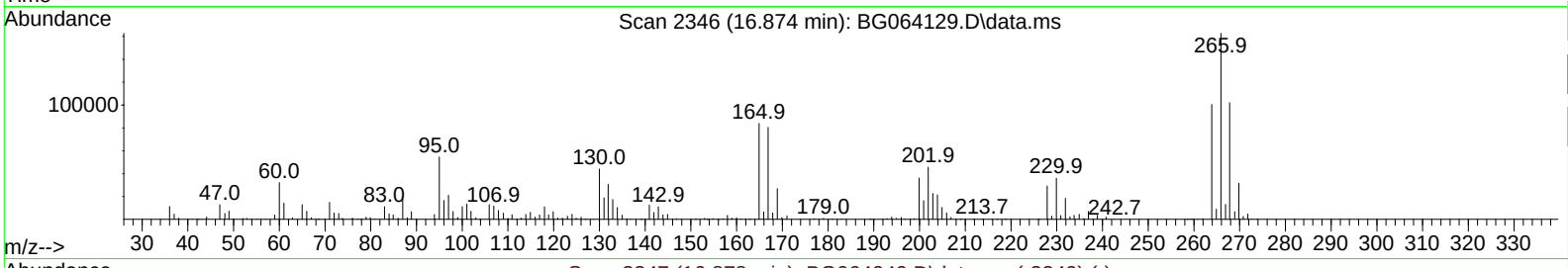
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	57.0	90163	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	38.6	61120	PASS
70	69	0.00	2	0.5	294	PASS
127	198	10	80	47.9	75825	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	158291	PASS
199	198	5	9	6.9	10872	PASS
275	198	10	60	29.4	46560	PASS
365	198	1	100	5.4	8613	PASS
441	198	0.01	100	15.5	24488	PASS
442	442	50	100	100.0	148856	PASS
443	442	15	24	19.2	28603	PASS

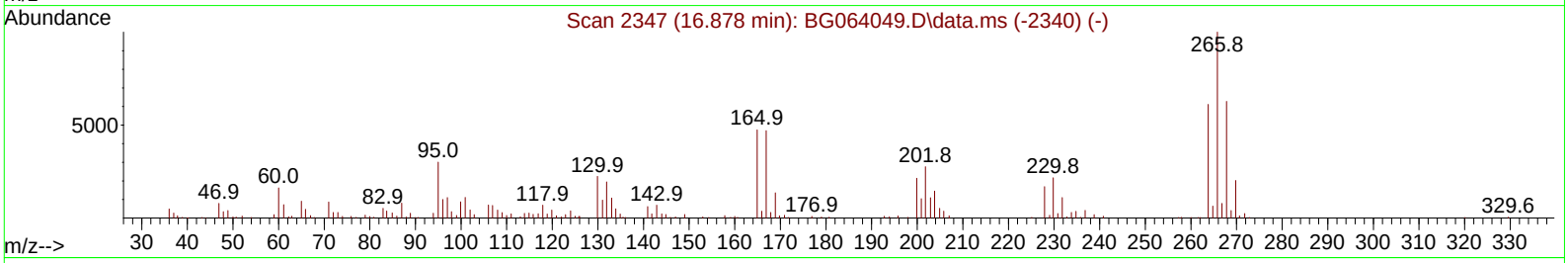
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064129.D
Acq On : 1 Apr 2025 10:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Apr 01 12:38:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064129.D\data.ms

(70) Pentachlorophenol (C)

16.874min (-0.004) 18192.74 ng

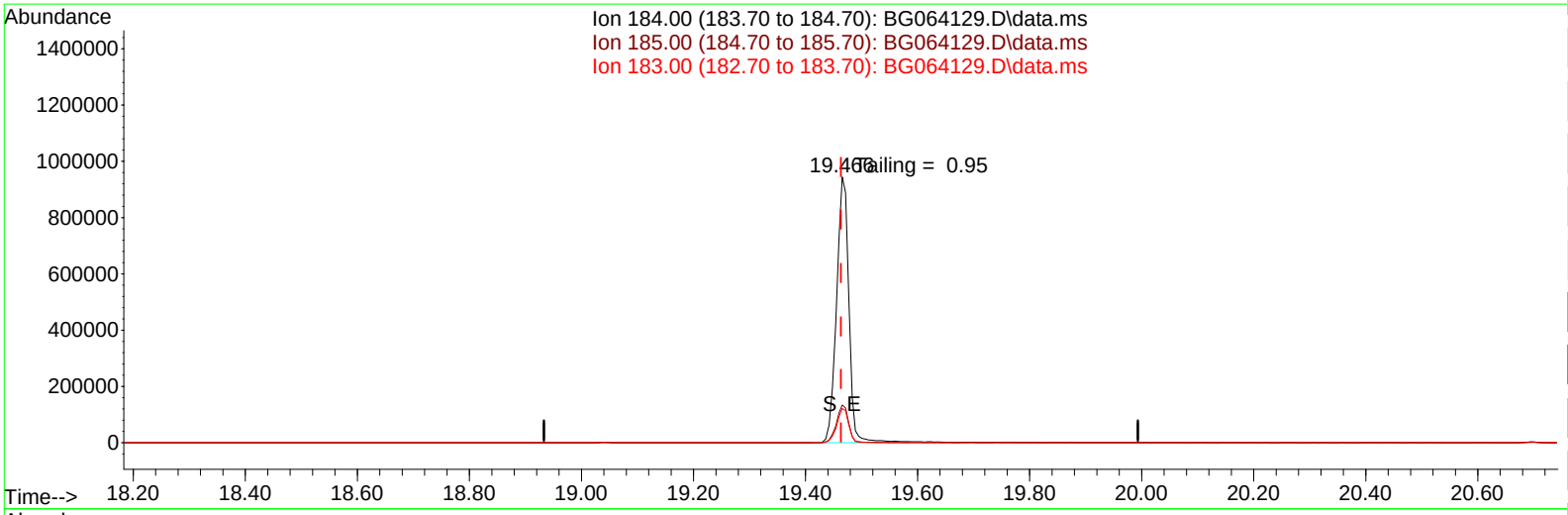
response 250619

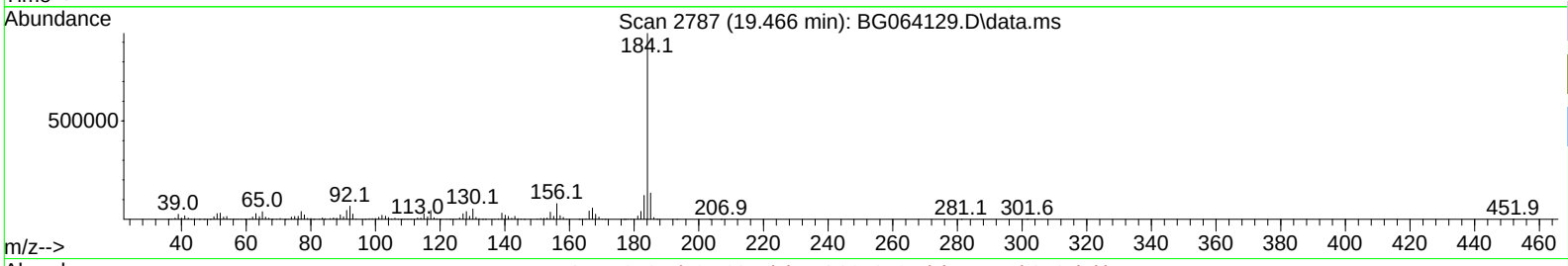
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.80	62.76
264.00	61.10	61.79
0.00	0.00	0.00

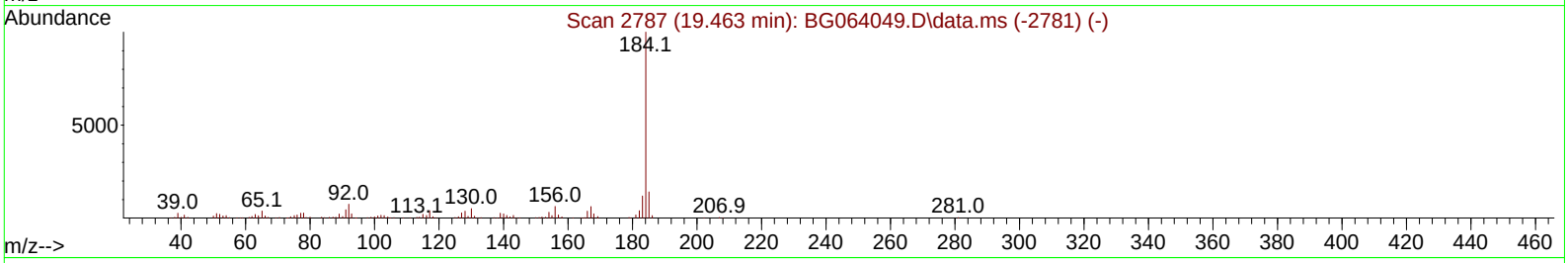
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064129.D
Acq On : 1 Apr 2025 10:13
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Apr 01 12:38:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064129.D\data.ms

(77) Benzidine

19.466min (+ 0.003) 44246.31 ng

response 1453902

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.18
183.00	11.90	12.89
0.00	0.00	0.00

Instrument :
BNA_G
ClientSampleId :
DFTPP

DDT Breakdown

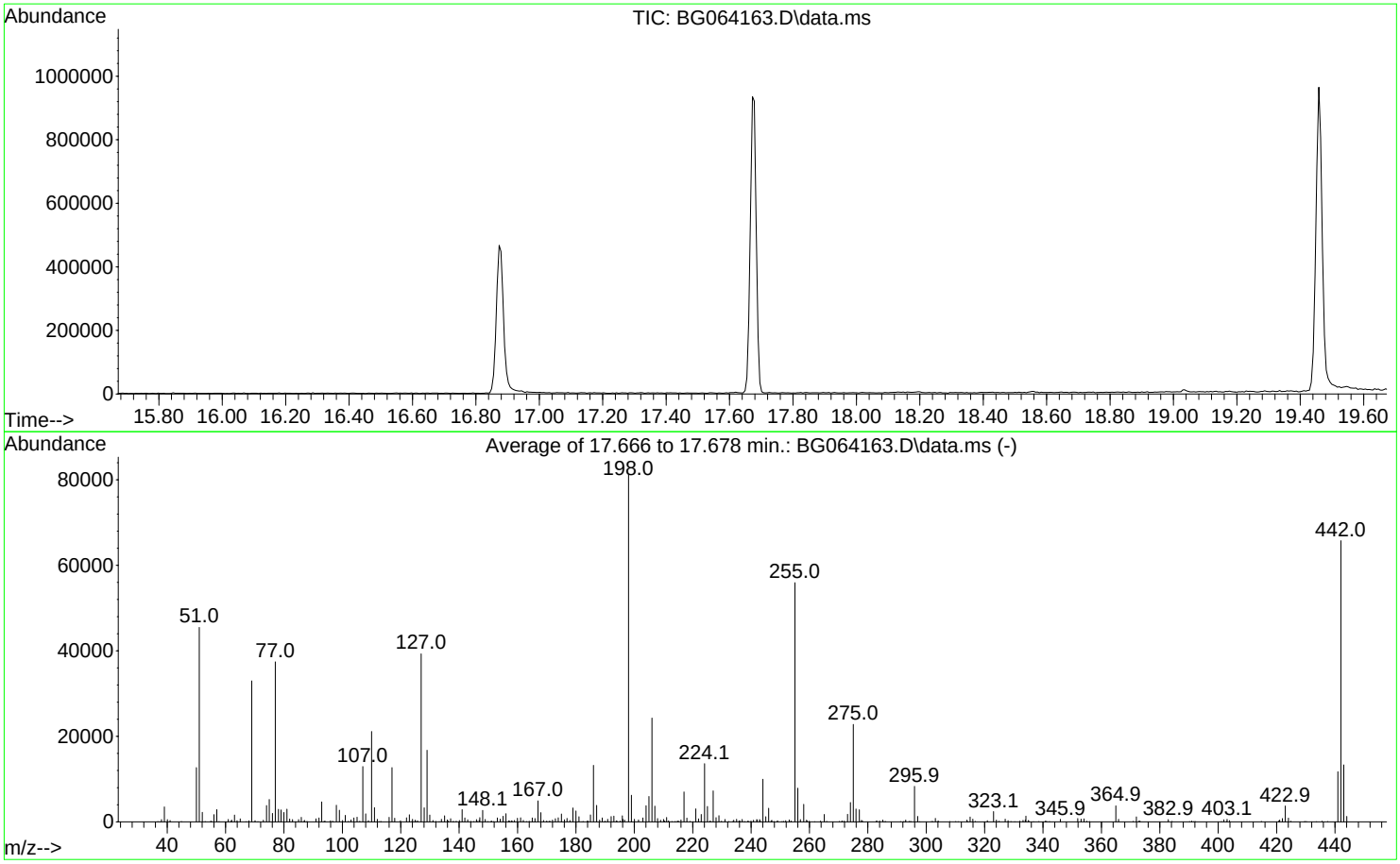
Date	Instrument Name	DFTPP Data File
4/1/2025	BNA_G	BG064129.D
Compound Name	**Response**	**Retention Time**
DDT	689196	20.699
DDD	16001	20.259
DDE	856	19.753
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
16857	706053	2.39

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064163.D
Acq On : 3 Apr 2025 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025



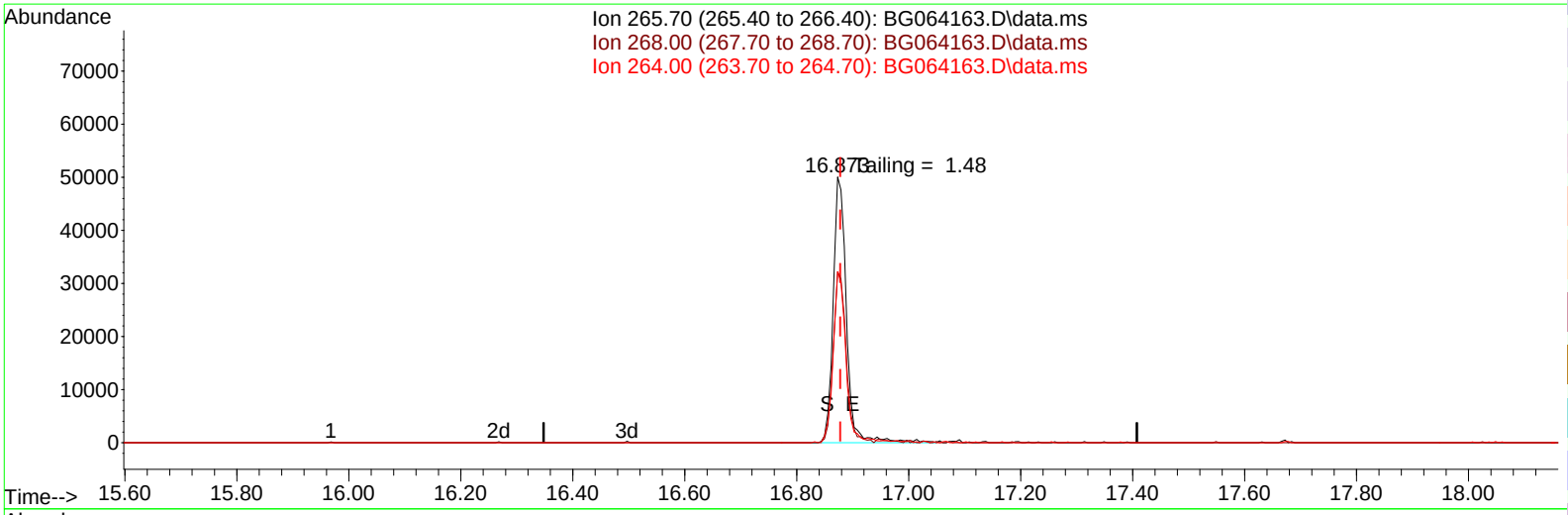
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2475

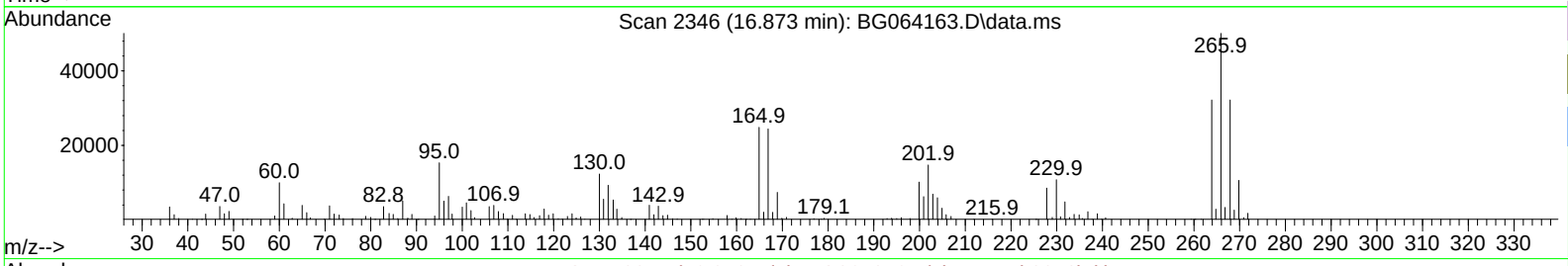
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	56.0	45483	PASS
68	69	0.00	2	0.8	258	PASS
69	198	0.00	100	40.6	32958	PASS
70	69	0.00	2	0.8	268	PASS
127	198	10	80	48.4	39301	PASS
197	198	0.00	2	0.5	417	PASS
198	198	100	100	100.0	81243	PASS
199	198	5	9	7.7	6234	PASS
275	198	10	60	28.1	22810	PASS
365	198	1	100	4.6	3760	PASS
441	198	0.01	100	14.4	11719	PASS
442	442	50	100	100.0	65776	PASS
443	442	15	24	20.2	13319	PASS

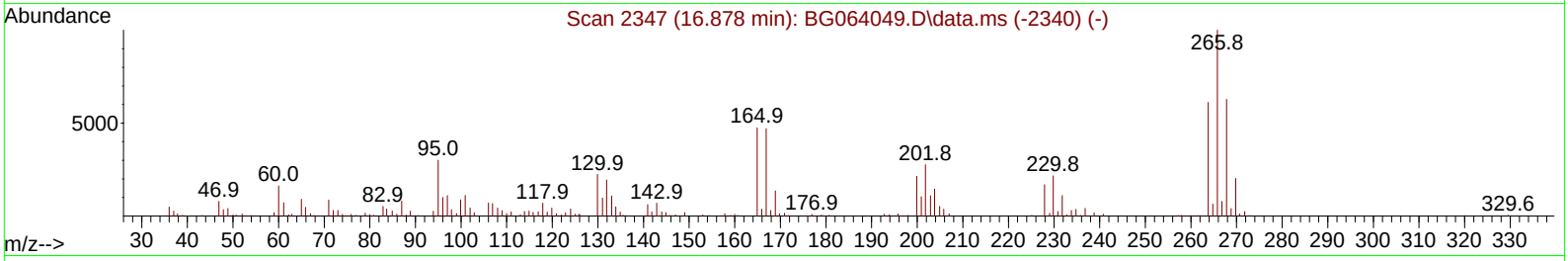
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064163.D
Acq On : 3 Apr 2025 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Apr 03 13:51:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064163.D\data.ms

(70) Pentachlorophenol (C)

16.873min (-0.005) 143328.78 ng m

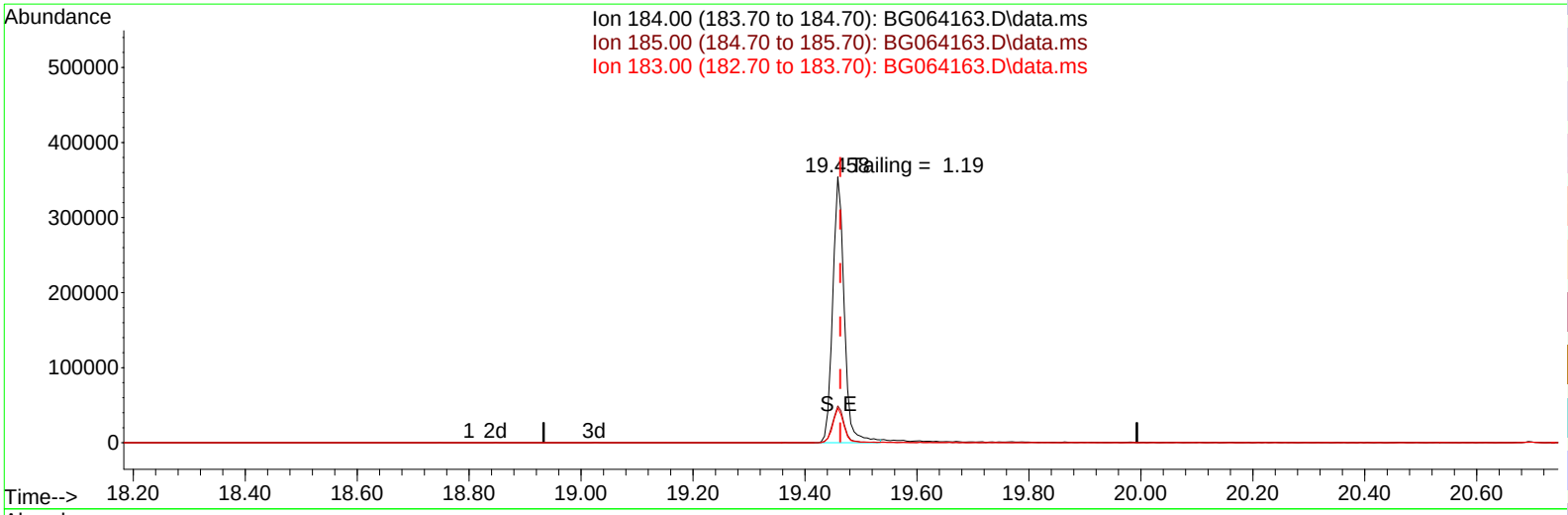
response 82652

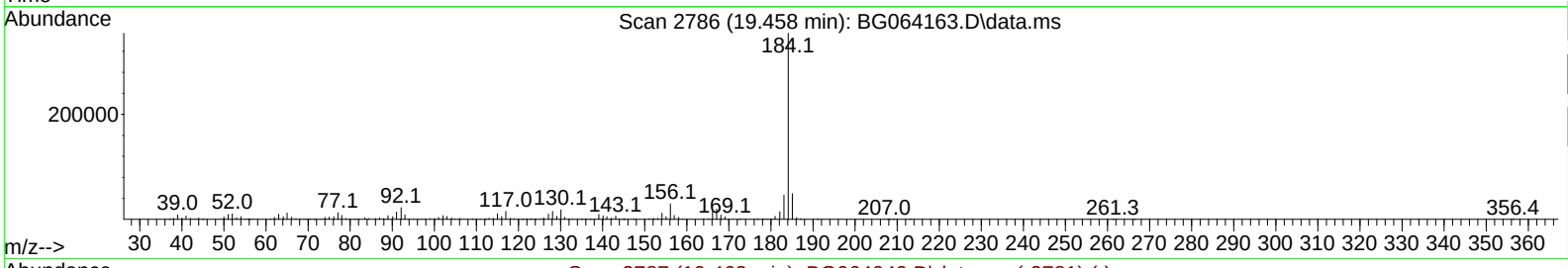
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.80	64.32
264.00	61.10	64.32
0.00	0.00	0.00

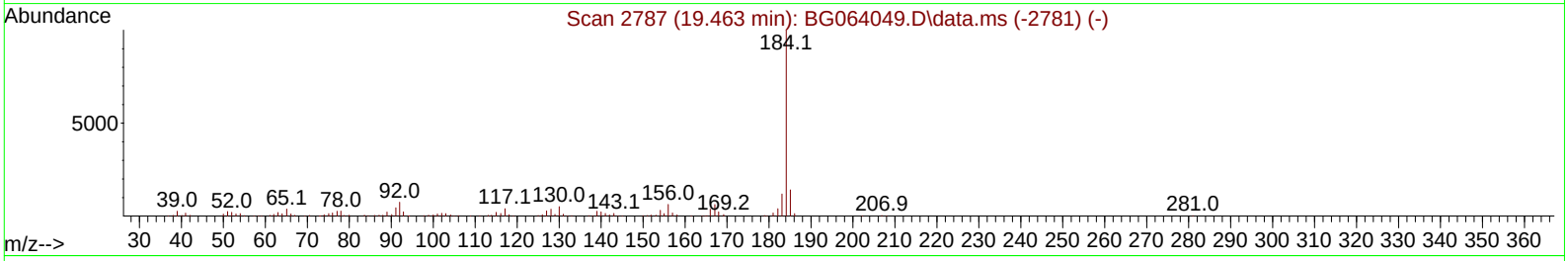
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064163.D
Acq On : 3 Apr 2025 12:24
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
DFTPP

Quant Time: Apr 03 13:51:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration







TIC: BG064163.D\data.ms

(77) Benzidine

19.458min (-0.005) 9423.30 ng m

response 527163

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	13.84
183.00	11.90	13.02
0.00	0.00	0.00

Instrument :
BNA_G
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
4/3/2025	BNA_G	BG064163.D
Compound Name	**Response**	**Retention Time**
DDT	247452	20.698
DDD	6772	20.257
DDE	773	19.752
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
7545	254997	2.96

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB167393BL			SDG No.:	Q1664
Lab Sample ID:	PB167393BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064171.D	1	03/31/25 11:00	04/03/25 17:56	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB167393BL	SDG No.:	Q1664
Lab Sample ID:	PB167393BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064171.D	1	03/31/25 11:00	04/03/25 17:56	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB167393BL			SDG No.:	Q1664
Lab Sample ID:	PB167393BL			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064171.D	1	03/31/25 11:00	04/03/25 17:56	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	138		10 - 139	92%	SPK: 150
13127-88-3	Phenol-d6	139		10 - 134	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.8		49 - 133	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.7		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	164		44 - 137	109%	SPK: 150
1718-51-0	Terphenyl-d14	91.8		48 - 125	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	25700	7.862			
1146-65-2	Naphthalene-d8	119000	10.646			
15067-26-2	Acenaphthene-d10	97300	14.483			
1517-22-2	Phenanthrene-d10	235000	17.221			
1719-03-5	Chrysene-d12	246000	21.451			
1520-96-3	Perylene-d12	259000	24.466			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064171.D
Acq On : 3 Apr 2025 17:56
Operator : RC/JU
Sample : PB167393BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Quant Time: Apr 04 01:44:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

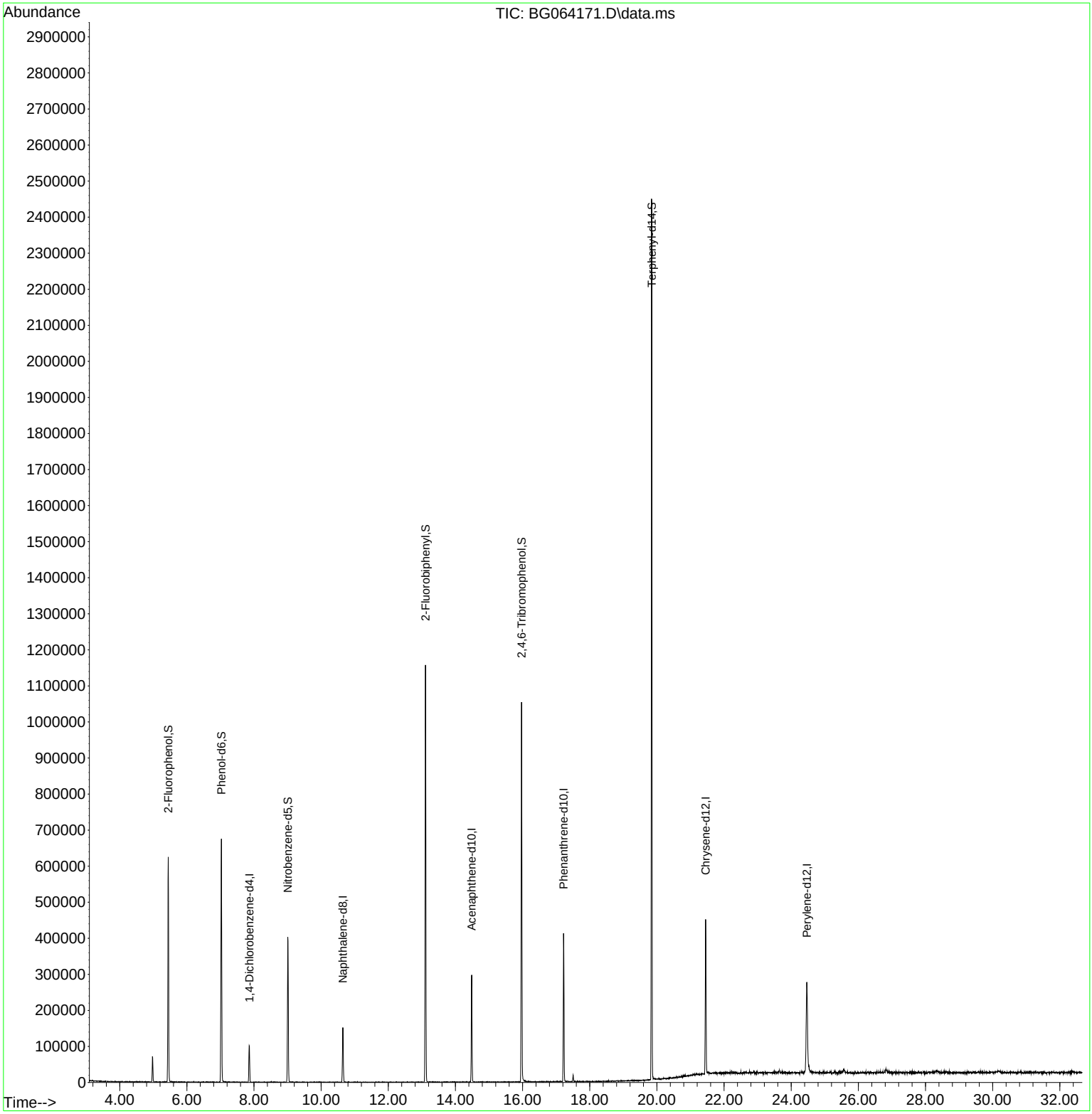
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.862	152	25692	20.000	ng	0.00
21) Naphthalene-d8	10.646	136	118561	20.000	ng	0.00
39) Acenaphthene-d10	14.483	164	97336	20.000	ng	0.00
64) Phenanthrene-d10	17.221	188	234504	20.000	ng	0.00
76) Chrysene-d12	21.451	240	246421	20.000	ng	0.00
86) Perylene-d12	24.466	264	258720	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.447	112	226578	137.704	ng	0.00
7) Phenol-d6	7.027	99	311166	139.014	ng	0.00
23) Nitrobenzene-d5	9.007	82	211883	98.760	ng	0.00
42) 2,4,6-Tribromophenol	15.970	330	177238	163.812	ng	0.00
45) 2-Fluorobiphenyl	13.108	172	549402	85.675	ng	0.00
79) Terphenyl-d14	19.847	244	1118423	91.772	ng	0.00
Target Compounds						Qvalue

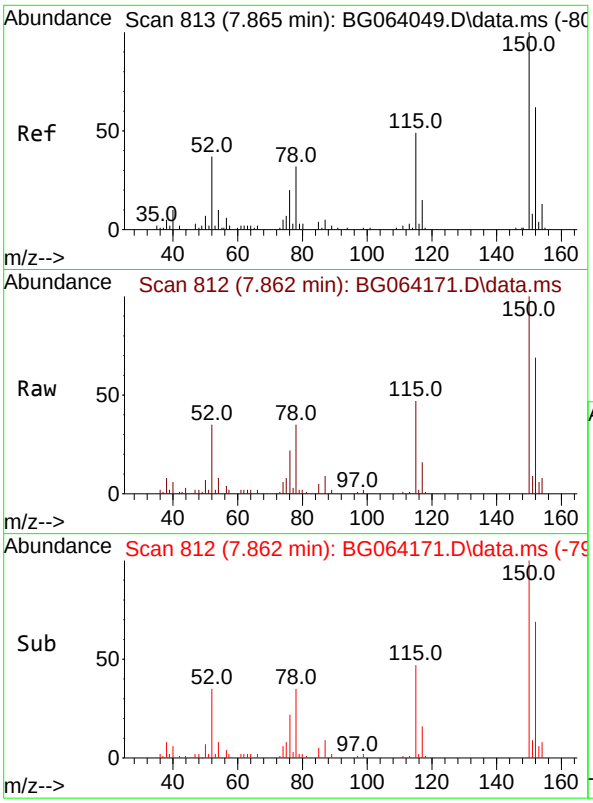
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064171.D
Acq On : 3 Apr 2025 17:56
Operator : RC/JU
Sample : PB167393BL
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Quant Time: Apr 04 01:44:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



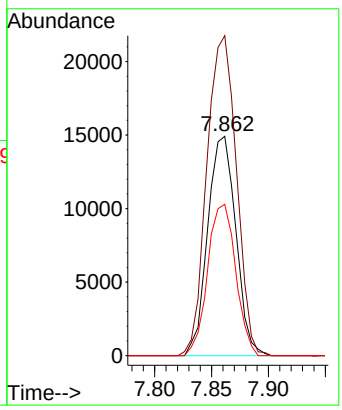


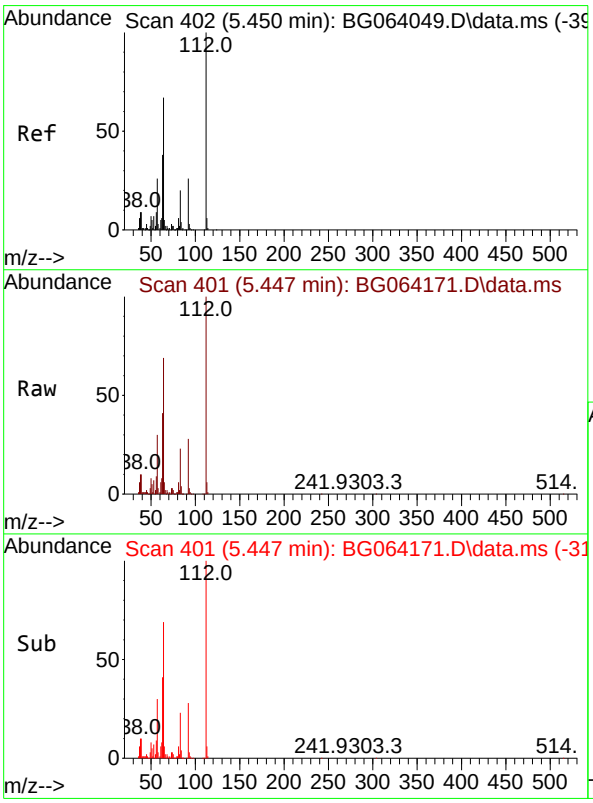
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.862 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion:152 Resp: 25692

Ion	Ratio	Lower	Upper
152	100		
150	145.9	129.2	193.8
115	69.0	63.0	94.6

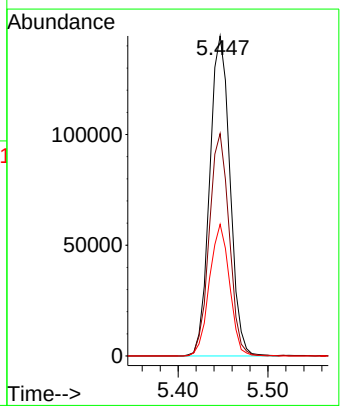


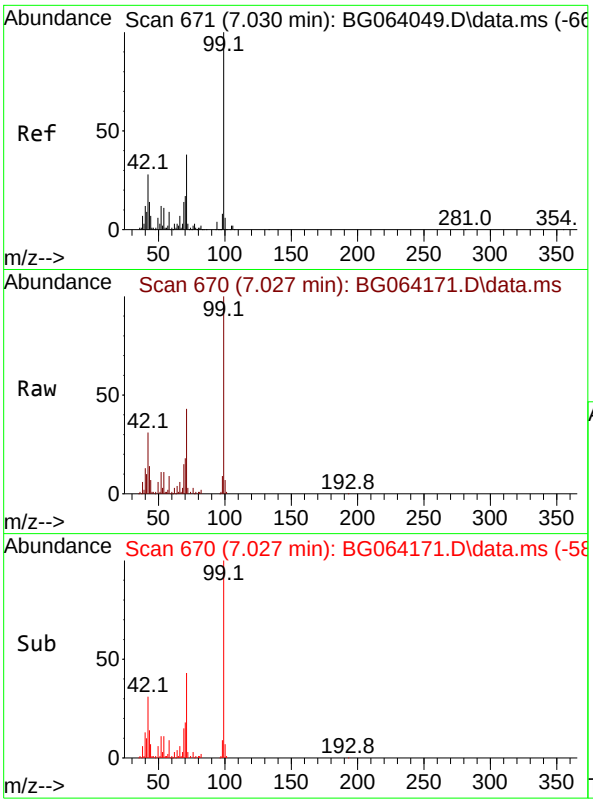


#5
2-Fluorophenol
Concen: 137.704 ng
RT: 5.447 min Scan# 401
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:112 Resp: 226578

Ion	Ratio	Lower	Upper
112	100		
64	69.5	53.7	80.5
63	41.1	30.2	45.4



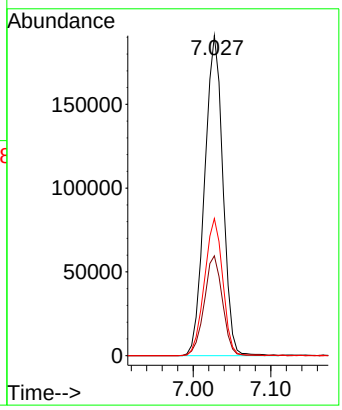


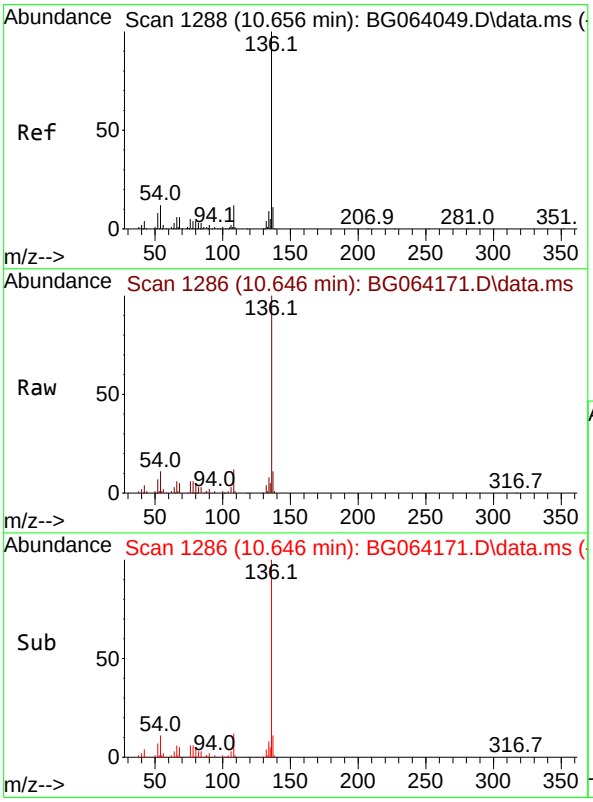
#7
Phenol-d6
Concen: 139.014 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion: 99 Resp: 311166

Ion	Ratio	Lower	Upper
99	100		
42	31.2	22.7	34.1
71	42.8	30.6	46.0

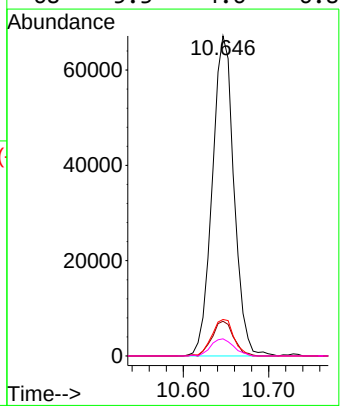


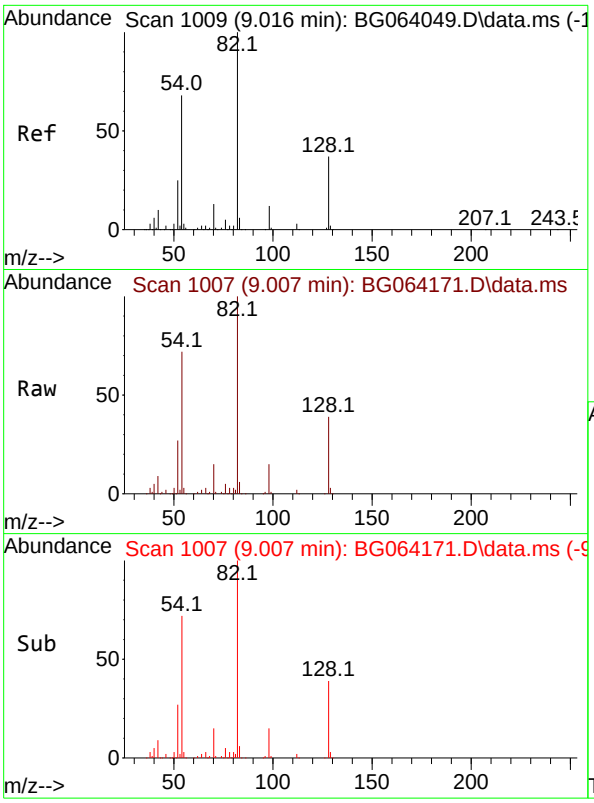


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.646 min Scan# 1286
Delta R.T. -0.010 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:136 Resp: 118561

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	11.4	9.9	14.9
68	5.3	4.6	6.8



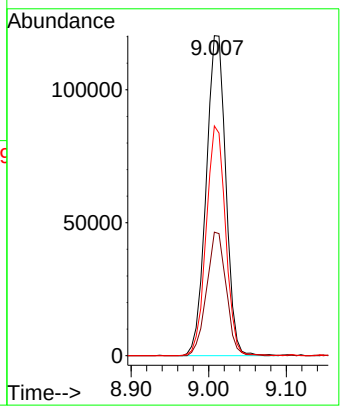


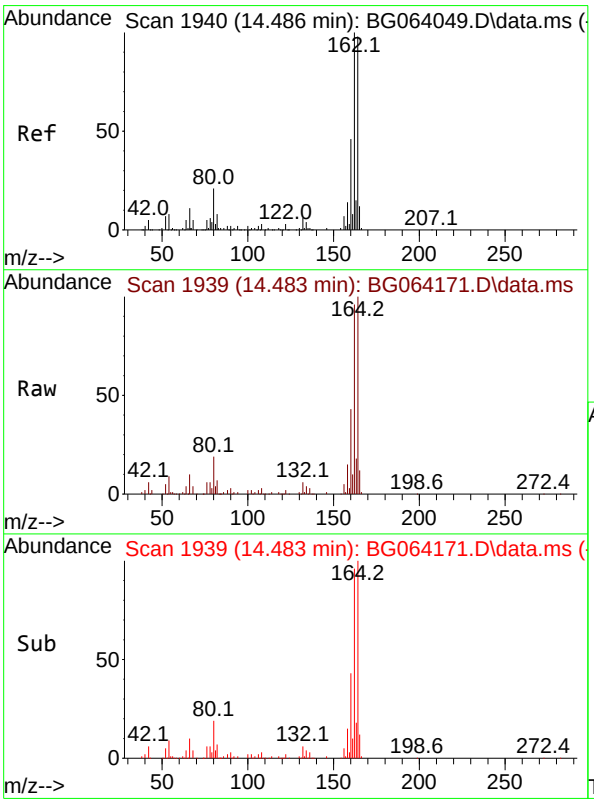
#23
Nitrobenzene-d5
Concen: 98.760 ng
RT: 9.007 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion: 82 Resp: 211883

Ion	Ratio	Lower	Upper
82	100		
128	38.6	30.0	45.0
54	71.8	54.7	82.1

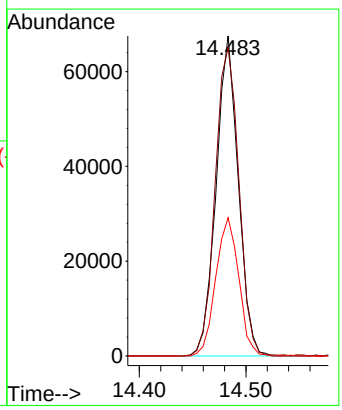


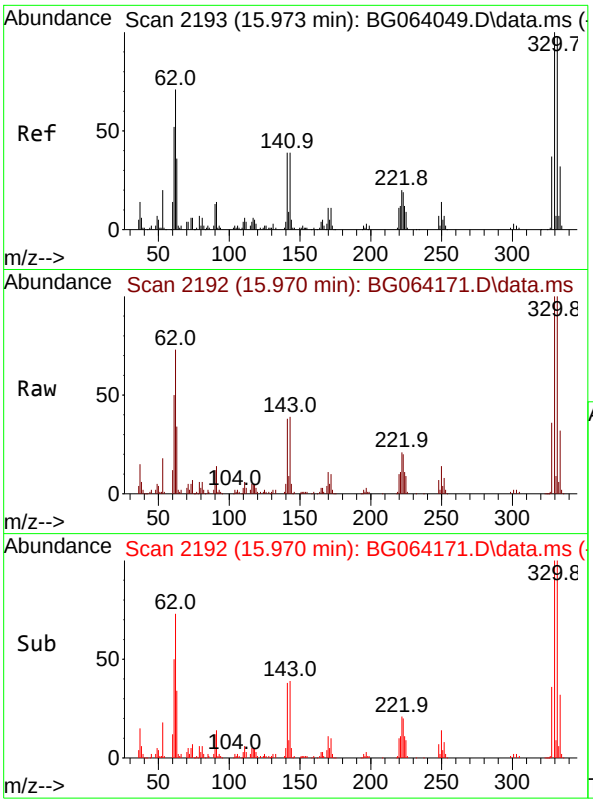


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:164 Resp: 97336

Ion	Ratio	Lower	Upper
164	100		
162	96.4	81.4	122.0
160	43.2	37.0	55.6



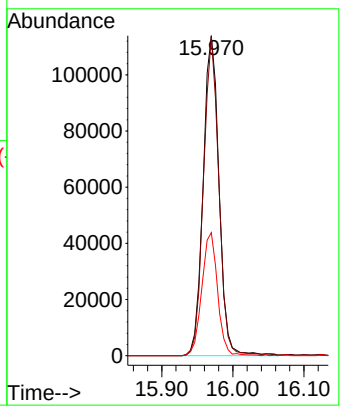


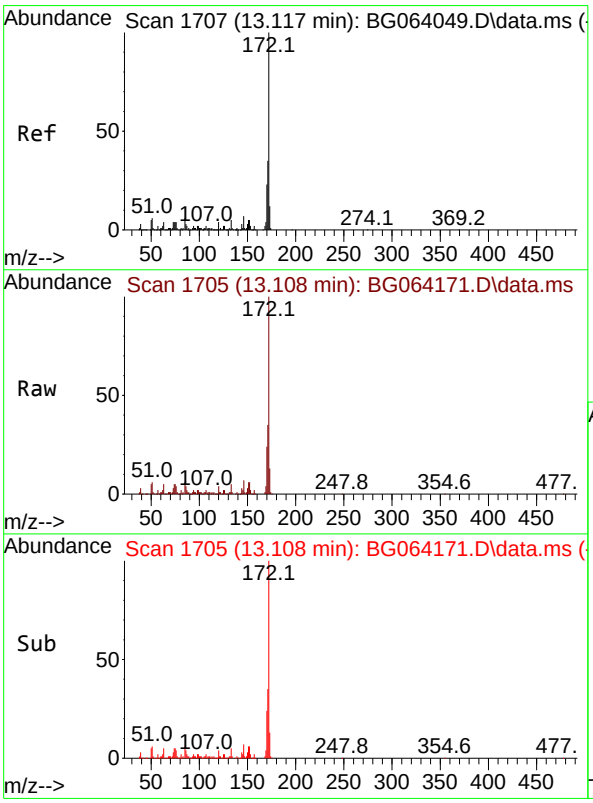
#42
2,4,6-Tribromophenol
Concen: 163.812 ng
RT: 15.970 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion:330 Resp: 177238

Ion	Ratio	Lower	Upper
330	100		
332	95.9	76.7	115.1
141	38.2	29.7	44.5

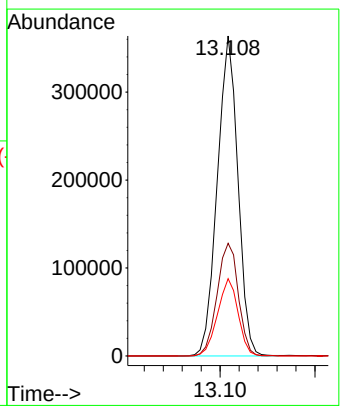


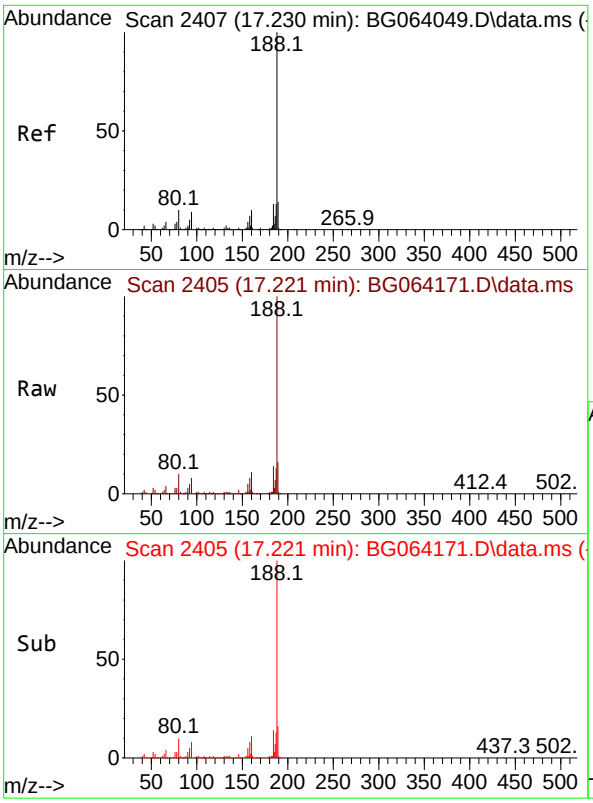


#45
2-Fluorobiphenyl
Concen: 85.675 ng
RT: 13.108 min Scan# 1705
Delta R.T. -0.009 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:172 Resp: 549402

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.0	42.0
170	24.2	18.7	28.1



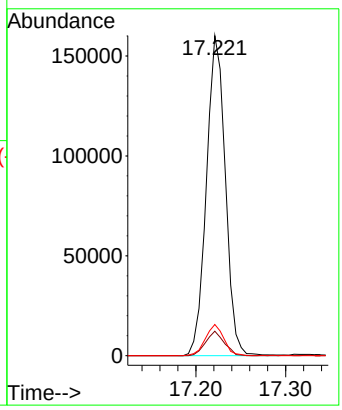


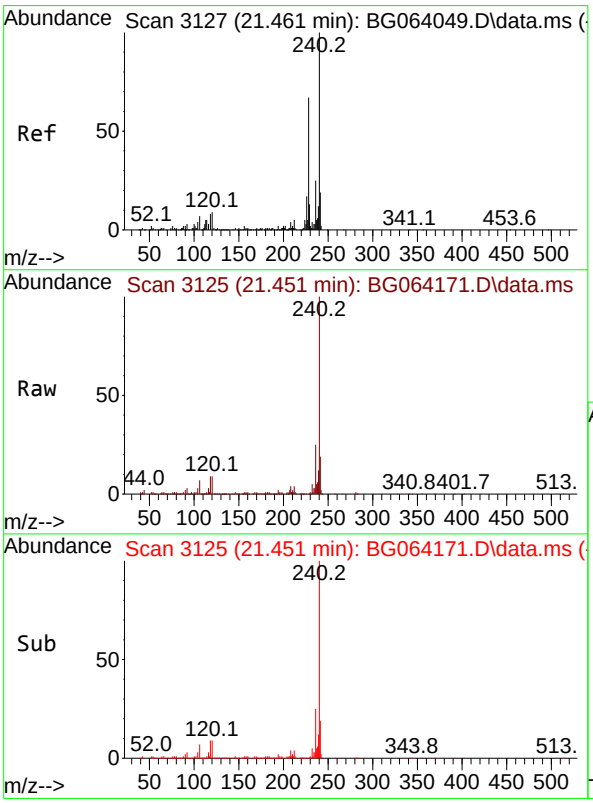
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.221 min Scan# 24
Delta R.T. -0.009 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion:188 Resp: 234504

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.9	10.3
80	9.7	8.1	12.1

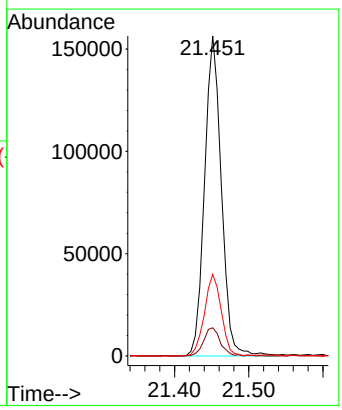


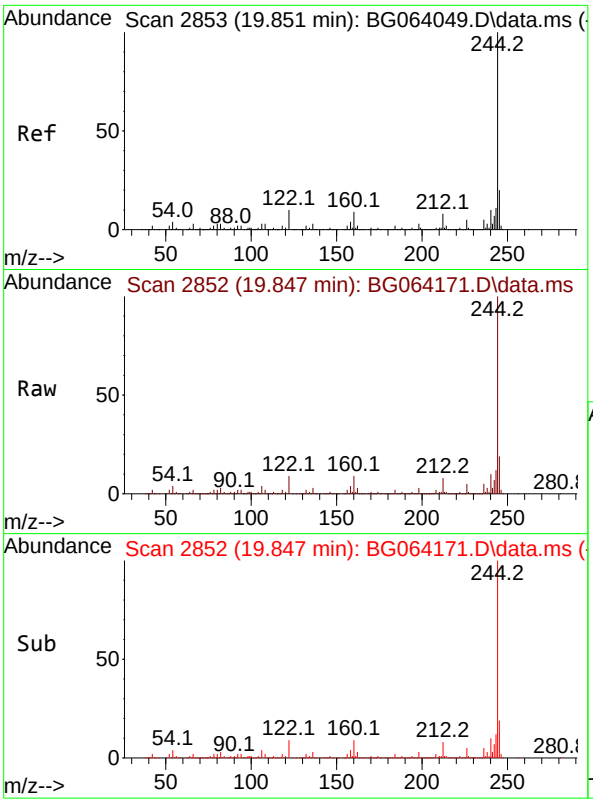


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.451 min Scan# 3125
Delta R.T. -0.009 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:240 Resp: 246421

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.2	10.8
236	25.5	20.2	30.2



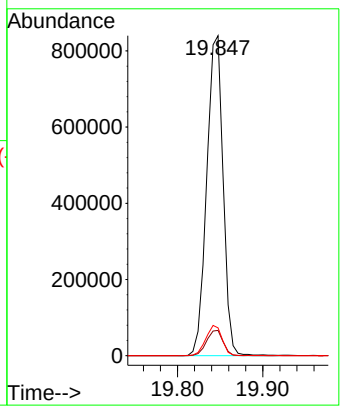


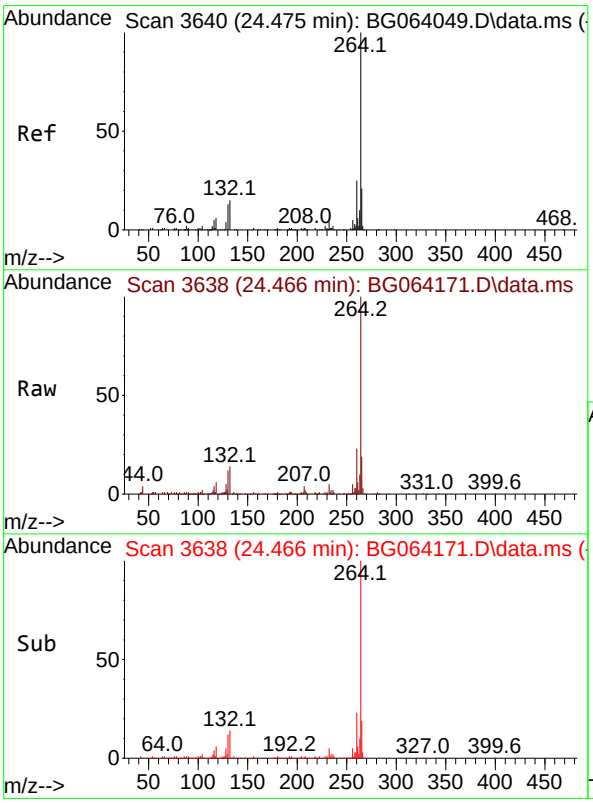
#79
Terphenyl-d14
Concen: 91.772 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Instrument :
BNA_G
ClientSampleId :
PB167393BL

Tgt Ion:244 Resp: 1118423

Ion	Ratio	Lower	Upper
244	100		
212	7.9	6.2	9.4
122	8.7	8.0	12.0

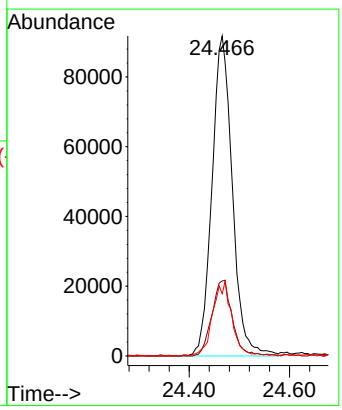




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.466 min Scan# 3638
Delta R.T. -0.009 min
Lab File: BG064171.D
Acq: 3 Apr 2025 17:56

Tgt Ion:264 Resp: 258720

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.6	29.4
265	19.5	16.6	25.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 905	Date Received:	
Client Sample ID:	PB167393BS	SDG No.:	Q1664
Lab Sample ID:	PB167393BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064173.D	1	03/31/25 11:00	04/03/25 19:17	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	44.2		3.90	10.0	ug/L
108-95-2	Phenol	51.7		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	43.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	51.6		0.58	5.00	ug/L
95-48-7	2-Methylphenol	53.6		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.6		1.30	5.00	ug/L
98-86-2	Acetophenone	42.2		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	54.3		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.6		1.40	2.50	ug/L
67-72-1	Hexachloroethane	52.8		0.65	5.00	ug/L
98-95-3	Nitrobenzene	48.0		0.76	5.00	ug/L
78-59-1	Isophorone	46.4		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	58.8		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	71.2		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.9		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	53.9		0.52	5.00	ug/L
91-20-3	Naphthalene	44.0		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	11.0		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.2		0.54	5.00	ug/L
105-60-2	Caprolactam	54.6		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	55.4		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	43.1		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	230	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.7		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	53.5		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	44.4		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	44.9		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	52.9		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	47.5		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB167393BS			SDG No.:	Q1664
Lab Sample ID:	PB167393BS			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064173.D	1	03/31/25 11:00	04/03/25 19:17	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	49.4		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.7		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	20.6		1.10	5.00	ug/L
83-32-9	Acenaphthene	45.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	140	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	110	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	44.1		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	54.2		1.20	5.00	ug/L
84-66-2	Diethylphthalate	48.4		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.3		0.68	5.00	ug/L
86-73-7	Fluorene	47.0		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	50.5		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	66.5		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.6		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.8		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	48.8		0.52	5.00	ug/L
1912-24-9	Atrazine	67.3		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	47.4		0.50	5.00	ug/L
120-12-7	Anthracene	49.3		0.61	5.00	ug/L
86-74-8	Carbazole	46.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	49.4		1.20	5.00	ug/L
206-44-0	Fluoranthene	45.8		0.82	5.00	ug/L
129-00-0	Pyrene	47.4		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.8		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	23.4		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	48.1		0.45	5.00	ug/L
218-01-9	Chrysene	45.7		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	54.5		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	54.4		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.7		0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 905			Date Received:	
Client Sample ID:	PB167393BS			SDG No.:	Q1664
Lab Sample ID:	PB167393BS			Matrix:	Water
Analytical Method:	SW8270			% Solid:	0
Sample Wt/Vol:	1000	Units: mL		Final Vol:	1000 uL
Soil Aliquot Vol:		uL		Test:	SPLP BNA
Extraction Type :		Decanted : N		Level :	LOW
Injection Volume :		GPC Factor : 1.0		GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064173.D	1	03/31/25 11:00	04/03/25 19:17	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	45.3		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	51.0		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.8		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	47.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.3		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	28.2		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	55.5		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	143		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	141		10 - 134	94%	SPK: 150
4165-60-0	Nitrobenzene-d5	97.8		49 - 133	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.6		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	171		44 - 137	114%	SPK: 150
1718-51-0	Terphenyl-d14	93.3		48 - 125	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	28300	7.858			
1146-65-2	Naphthalene-d8	137000	10.649			
15067-26-2	Acenaphthene-d10	107000	14.48			
1517-22-2	Phenanthrene-d10	249000	17.224			
1719-03-5	Chrysene-d12	249000	21.454			
1520-96-3	Perylene-d12	264000	24.468			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064173.D
Acq On : 3 Apr 2025 19:17
Operator : RC/JU
Sample : PB167393BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 01:45:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.858	152	28326	20.000	ng		0.00
21) Naphthalene-d8	10.649	136	137392	20.000	ng		0.00
39) Acenaphthene-d10	14.480	164	107393	20.000	ng		0.00
64) Phenanthrene-d10	17.224	188	248813	20.000	ng		0.00
76) Chrysene-d12	21.454	240	248832	20.000	ng		0.00
86) Perylene-d12	24.468	264	264036	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.450	112	260103	143.379	ng		0.00
7) Phenol-d6	7.030	99	347089	140.643	ng		0.00
23) Nitrobenzene-d5	9.010	82	243149	97.800	ng		0.00
42) 2,4,6-Tribromophenol	15.972	330	204481	171.293	ng		0.00
45) 2-Fluorobiphenyl	13.111	172	605724	85.612	ng		0.00
79) Terphenyl-d14	19.844	244	1147666	93.259	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.358	88	23146	28.153	ng		95
3) Pyridine	3.746	79	69029	34.524	ng		94
4) n-Nitrosodimethylamine	3.663	42	58435	40.905	ng		94
6) Aniline	7.183	93	84082	34.721	ng		99
8) 2-Chlorophenol	7.424	128	100517	51.591	ng		95
9) Benzaldehyde	6.995	77	63458	44.213	ng		97
10) Phenol	7.054	94	130559	51.672	ng		97
11) bis(2-Chloroethyl)ether	7.283	93	86962	43.900	ng		99
12) 1,3-Dichlorobenzene	7.753	146	97597	45.616	ng		95
13) 1,4-Dichlorobenzene	7.894	146	99360	45.307	ng		99
14) 1,2-Dichlorobenzene	8.211	146	99453	47.030	ng		97
15) Benzyl Alcohol	8.093	79	103300	54.167	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.387	45	207476	46.580	ng		99
17) 2-Methylphenol	8.299	107	89909	53.615	ng		98
18) Hexachloroethane	8.940	117	40527	52.819	ng		94
19) n-Nitroso-di-n-propyla...	8.663	70	82417	47.586	ng		97
20) 3+4-Methylphenols	8.628	107	125453	54.340	ng		95
22) Acetophenone	8.675	105	159135	42.244	ng	#	96
24) Nitrobenzene	9.051	77	123254	47.970	ng		99
25) Isophorone	9.574	82	230706	46.361	ng		95
26) 2-Nitrophenol	9.762	139	54963	58.817	ng	#	93
27) 2,4-Dimethylphenol	9.827	122	106232	71.211	ng		95
28) bis(2-Chloroethoxy)met...	10.062	93	135542	44.926	ng		100
29) 2,4-Dichlorophenol	10.297	162	101564	53.917	ng		99
30) 1,2,4-Trichlorobenzene	10.508	180	103648	45.580	ng		98
31) Naphthalene	10.696	128	325687	43.961	ng		99
32) Benzoic acid	9.968	122	75930m	54.083	ng		
33) 4-Chloroaniline	10.802	127	29877	11.034	ng	#	89
34) Hexachlorobutadiene	10.990	225	70355	47.202	ng		96
35) Caprolactam	11.578	113	39436m	54.631	ng		
36) 4-Chloro-3-methylphenol	11.930	107	136856	55.426	ng		99
37) 2-Methylnaphthalene	12.306	142	225381	43.093	ng		97
38) 1-Methylnaphthalene	12.524	142	243729	47.566	ng		97
40) 1,2,4,5-Tetrachloroben...	12.676	216	132670	43.271	ng	#	97
41) Hexachlorocyclopentadiene	12.659	237	194898	225.856	ng		95
43) 2,4,6-Trichlorophenol	12.917	196	93345	51.657	ng		92

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064173.D
Acq On : 3 Apr 2025 19:17
Operator : RC/JU
Sample : PB167393BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 04 01:45:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	107368	53.475	ng		97
46) 1,1'-Biphenyl	13.323	154	360456	44.426	ng		95
47) 2-Chloronaphthalene	13.358	162	265674	44.896	ng		97
48) 2-Nitroaniline	13.558	65	106132	52.905	ng		96
49) Acenaphthylene	14.204	152	462687	49.433	ng		99
50) Dimethylphthalate	13.945	163	376489	47.492	ng		100
51) 2,6-Dinitrotoluene	14.057	165	80098	49.677	ng		94
52) Acenaphthene	14.551	154	282611	44.991	ng		94
53) 3-Nitroaniline	14.380	138	31565	20.602	ng		91
54) 2,4-Dinitrophenol	14.592	184	100093	142.446	ng	#	72
55) Dibenzofuran	14.886	168	448500	44.074	ng		98
56) 4-Nitrophenol	14.698	139	144648	112.568	ng		87
57) 2,4-Dinitrotoluene	14.844	165	121433	54.211	ng	#	94
58) Fluorene	15.532	166	372397	46.987	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.109	232	108606	55.484	ng		94
60) Diethylphthalate	15.309	149	416605	48.408	ng		99
61) 4-Chlorophenyl-phenyle...	15.526	204	182439	46.321	ng	#	88
62) 4-Nitroaniline	15.549	138	83572	50.522	ng		90
63) Azobenzene	15.820	77	410884	44.742	ng		98
65) 4,6-Dinitro-2-methylph...	15.608	198	75522	66.467	ng		98
66) n-Nitrosodiphenylamine	15.743	169	342099	48.573	ng		99
67) 4-Bromophenyl-phenylether	16.419	248	129419	50.786	ng		96
68) Hexachlorobenzene	16.537	284	139145	48.772	ng		96
69) Atrazine	16.695	200	139441	67.290	ng		97
70) Pentachlorophenol	16.877	266	183831	103.779	ng		97
71) Phenanthrene	17.271	178	629352	47.423	ng		99
72) Anthracene	17.359	178	650102	49.264	ng		99
73) Carbazole	17.624	167	575340	46.696	ng		99
74) Di-n-butylphthalate	18.193	149	717070	49.443	ng		99
75) Fluoranthene	19.275	202	732555	45.787	ng		97
77) Benzidine	19.457	184	173862	50.459	ng		99
78) Pyrene	19.639	202	759775	47.367	ng		99
80) Butylbenzylphthalate	20.538	149	326610	53.789	ng		97
81) Benzo(a)anthracene	21.437	228	766772	48.105	ng		98
82) 3,3'-Dichlorobenzidine	21.360	252	120638	23.386	ng		98
83) Chrysene	21.501	228	727012	45.731	ng		100
84) Bis(2-ethylhexyl)phtha...	21.366	149	469749	54.493	ng		100
85) Di-n-octyl phthalate	22.512	149	808712	54.390	ng		98
87) Indeno(1,2,3-cd)pyrene	27.870	276	898254	50.846	ng	#	96
88) Benzo(b)fluoranthene	23.522	252	761654	47.717	ng		98
89) Benzo(k)fluoranthene	23.581	252	725723	45.321	ng		98
90) Benzo(a)pyrene	24.327	252	724310	50.952	ng		97
91) Dibenzo(a,h)anthracene	27.929	278	747239	51.021	ng		98
92) Benzo(g,h,i)perylene	28.922	276	708548	47.120	ng		97

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

Quantitation Report (QT Reviewed)

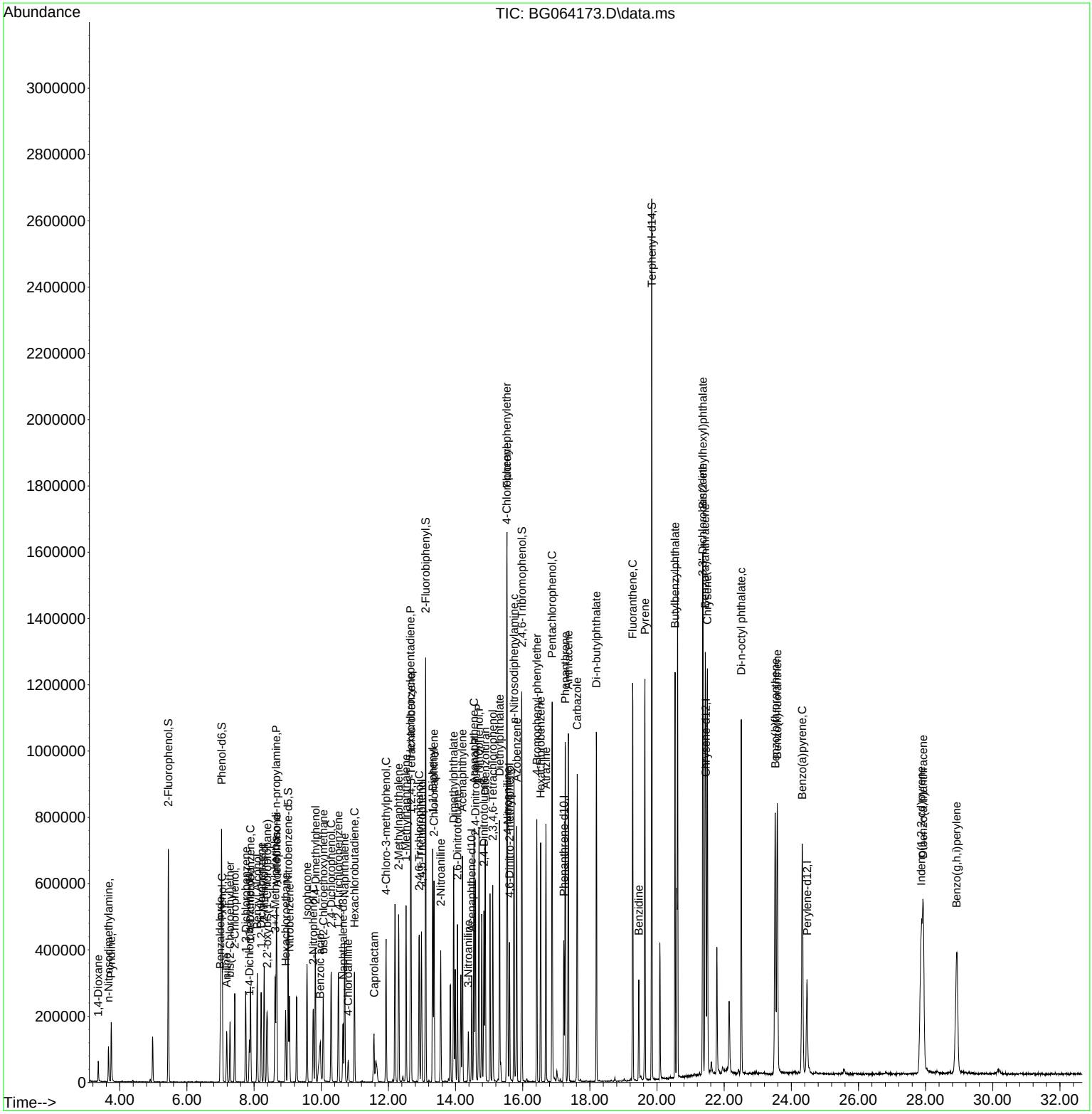
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040325\
Data File : BG064173.D
Acq On : 3 Apr 2025 19:17
Operator : RC/JU
Sample : PB167393BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

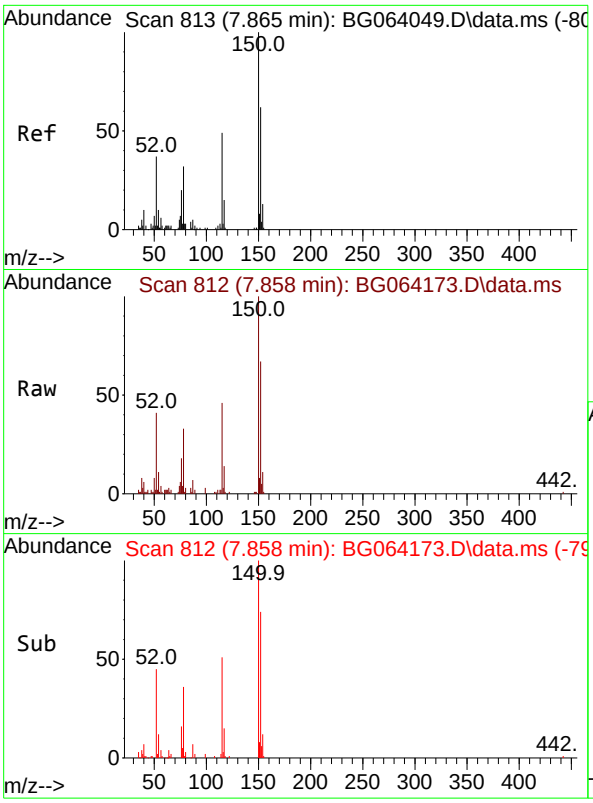
Quant Time: Apr 04 01:45:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

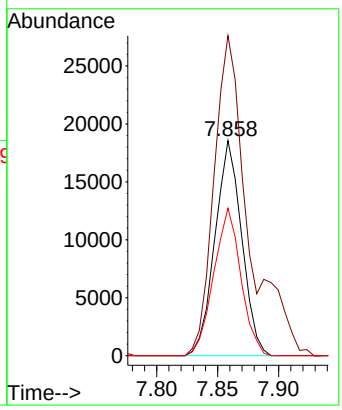




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.858 min Scan# 8
Delta R.T. -0.007 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:152 Resp: 2832

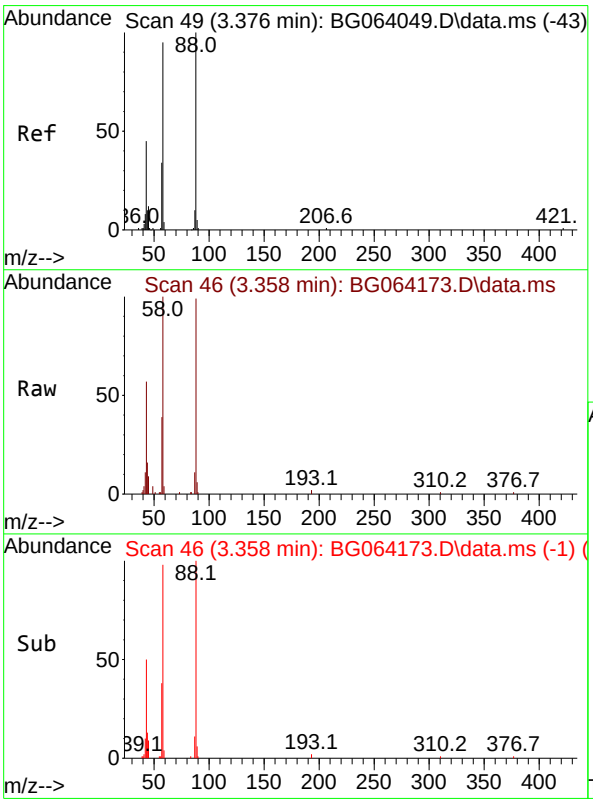
Ion	Ratio	Lower	Upper
152	100		
150	148.8	129.2	193.8
115	68.6	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

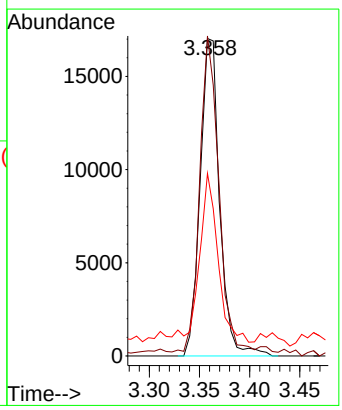
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

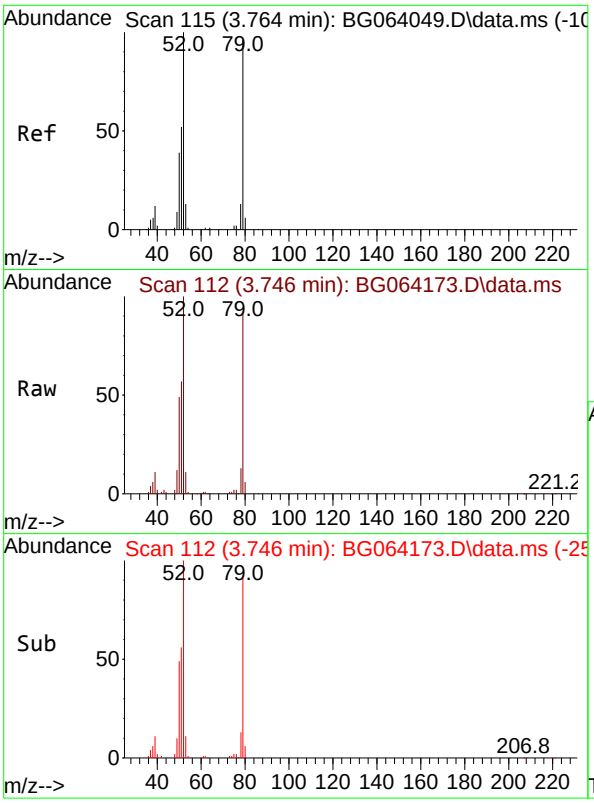


#2
1,4-Dioxane
Concen: 28.153 ng
RT: 3.358 min Scan# 46
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 88 Resp: 23146

Ion	Ratio	Lower	Upper
88	100		
58	96.0	74.6	111.8
43	50.0	35.5	53.3

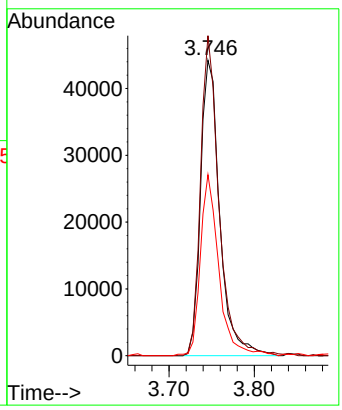




#3
Pyridine
Concen: 34.524 ng
RT: 3.746 min Scan# 1
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 79 Resp: 6902

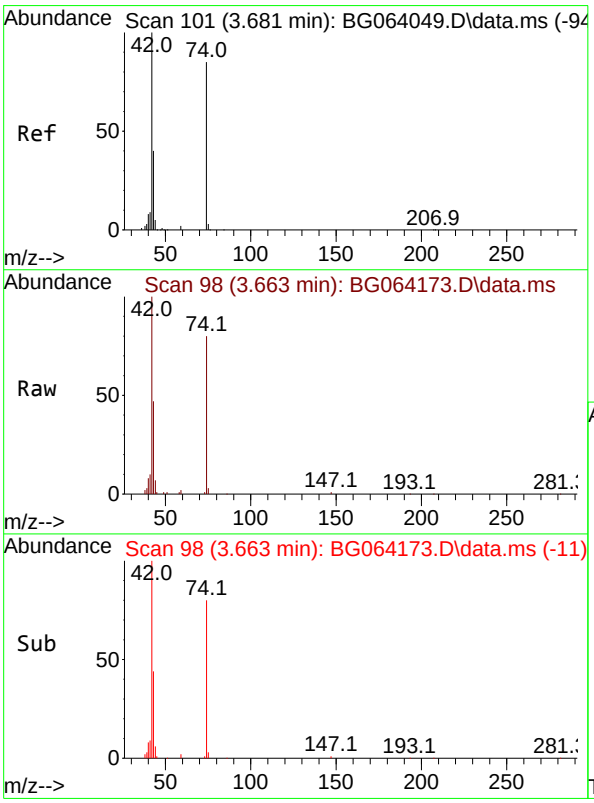
Ion	Ratio	Lower	Upper
79	100		
52	108.3	83.0	124.6
51	61.2	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

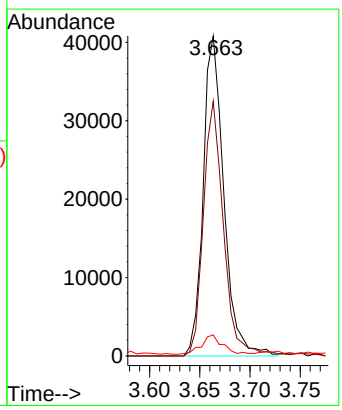
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

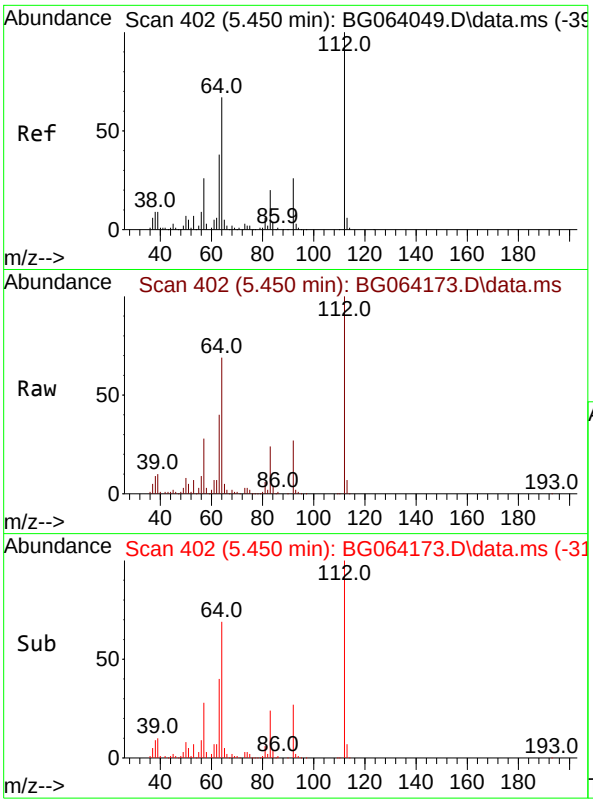


#4
n-Nitrosodimethylamine
Concen: 40.905 ng
RT: 3.663 min Scan# 98
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 42 Resp: 58435

Ion	Ratio	Lower	Upper
42	100		
74	79.6	68.0	102.0
44	6.6	4.9	7.3

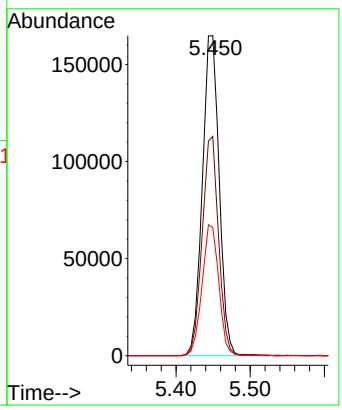




#5
2-Fluorophenol
Concen: 143.379 ng
RT: 5.450 min Scan# 4(
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:112 Resp: 26010

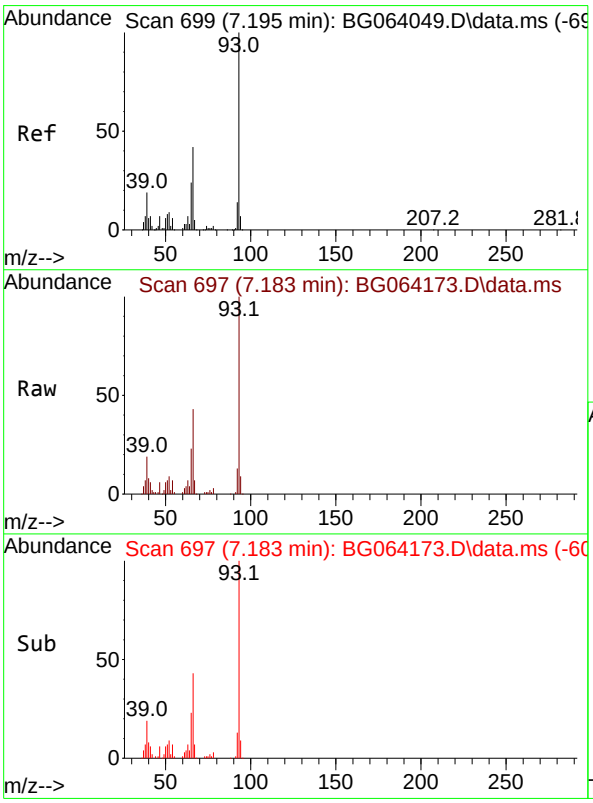
Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.7	80.5
63	40.1	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

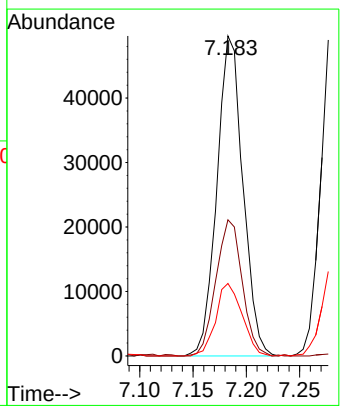
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

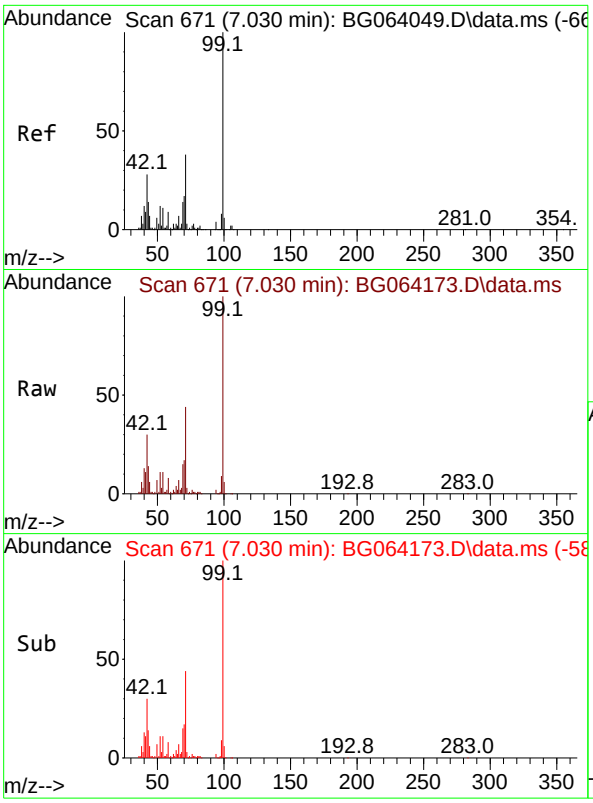


#6
Aniline
Concen: 34.721 ng
RT: 7.183 min Scan# 697
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 93 Resp: 84082

Ion	Ratio	Lower	Upper
93	100		
66	42.6	33.7	50.5
65	22.6	19.1	28.7

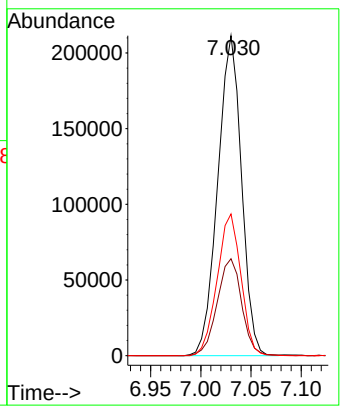




#7
Phenol-d6
Concen: 140.643 ng
RT: 7.030 min Scan# 6
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 99 Resp: 34708

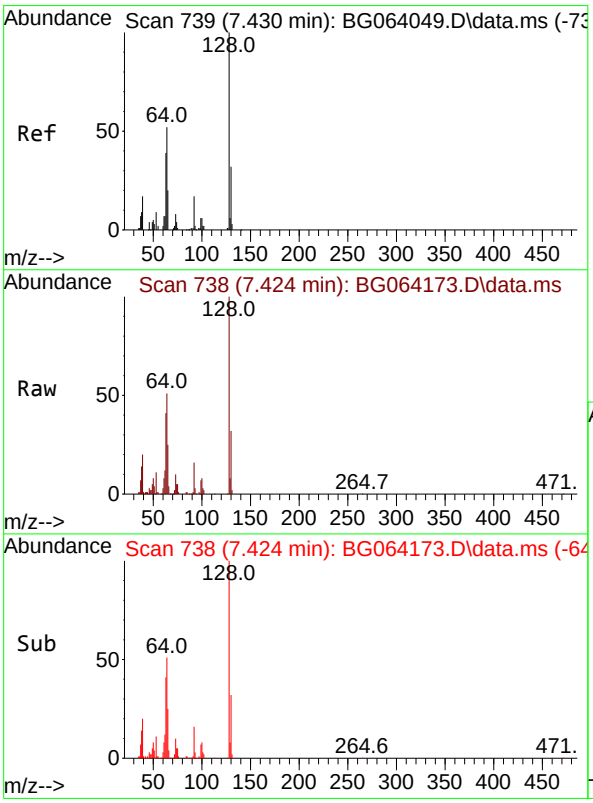
Ion	Ratio	Lower	Upper
99	100		
42	30.3	22.7	34.1
71	44.3	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

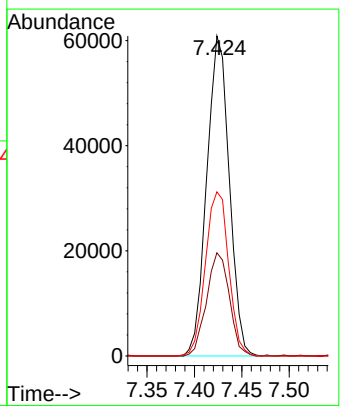
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

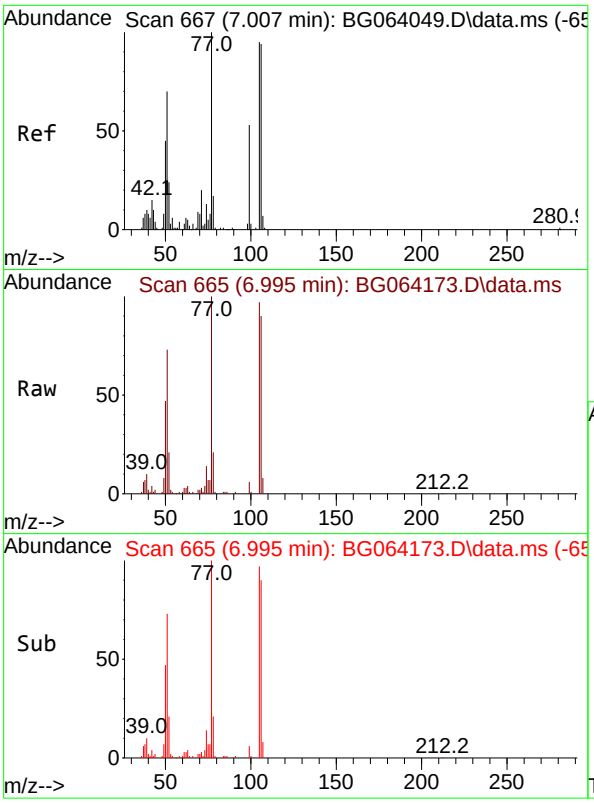


#8
2-Chlorophenol
Concen: 51.591 ng
RT: 7.424 min Scan# 738
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:128 Resp: 100517

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.3	52.3
64	51.3	37.0	77.0

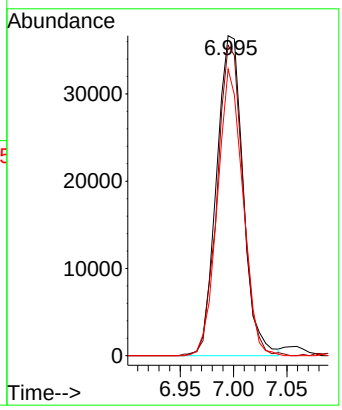




#9
Benzaldehyde
Concen: 44.213 ng
RT: 6.995 min Scan# 6
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 77 Resp: 6345

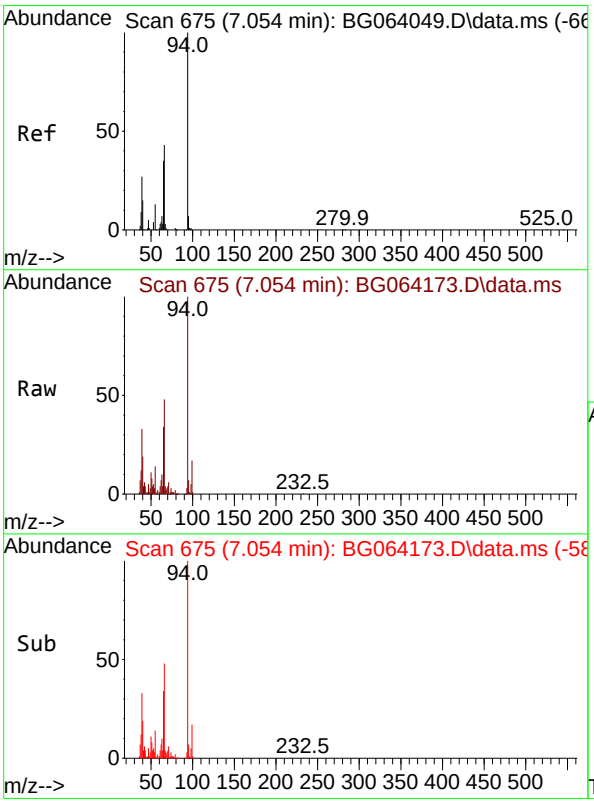
Ion	Ratio	Lower	Upper
77	100		
105	97.0	75.5	115.5
106	89.6	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

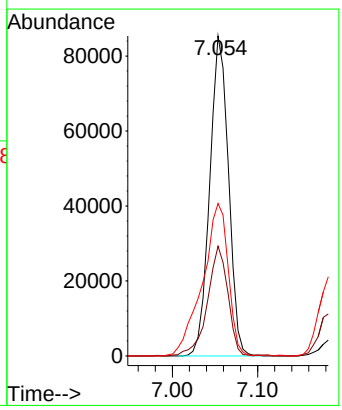
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

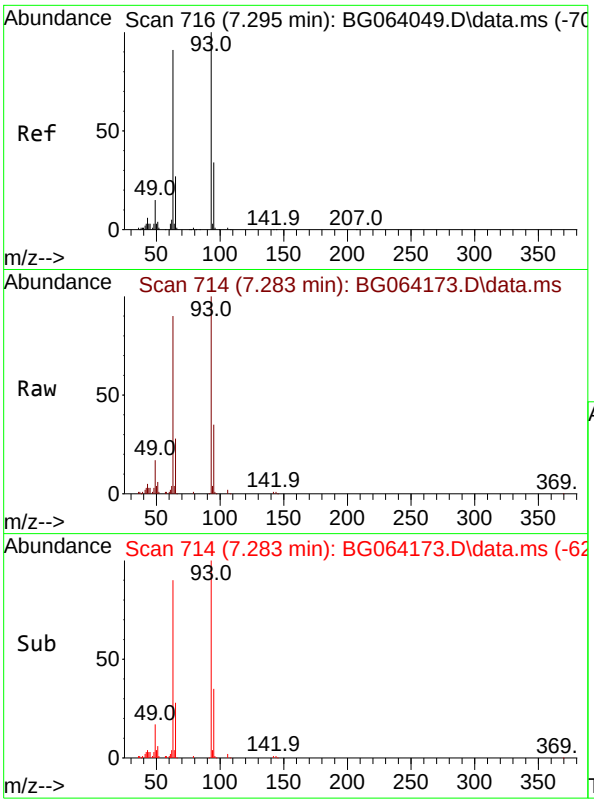


#10
Phenol
Concen: 51.672 ng
RT: 7.054 min Scan# 675
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 94 Resp: 130559

Ion	Ratio	Lower	Upper
94	100		
65	34.3	15.2	55.2
66	47.6	25.1	65.1

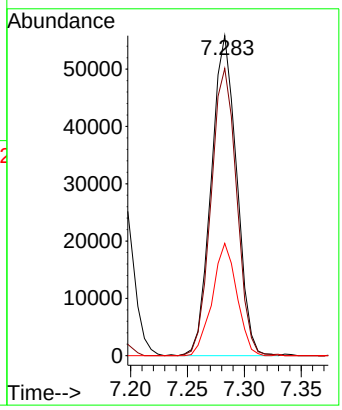




#11
bis(2-Chloroethyl)ether
Concen: 43.900 ng
RT: 7.283 min Scan# 7
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 93 Resp: 8696

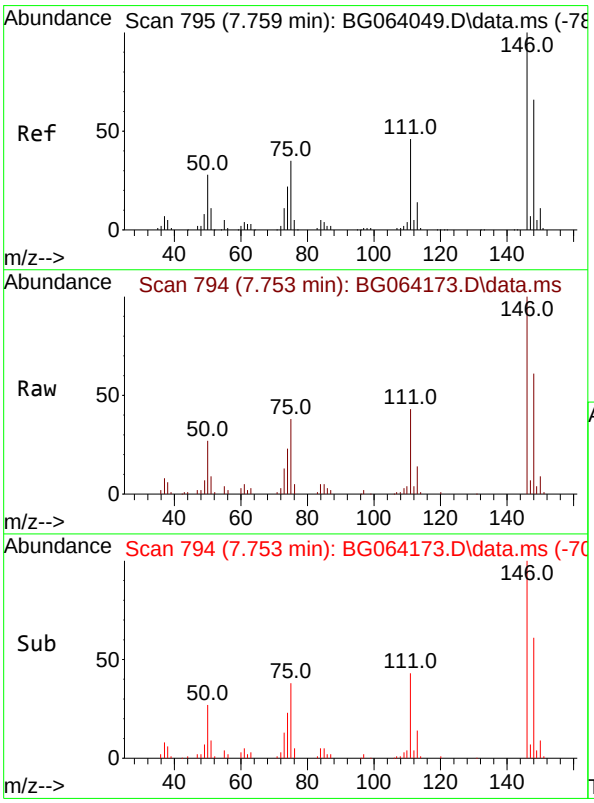
Ion	Ratio	Lower	Upper
93	100		
63	89.8	70.0	110.0
95	35.1	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

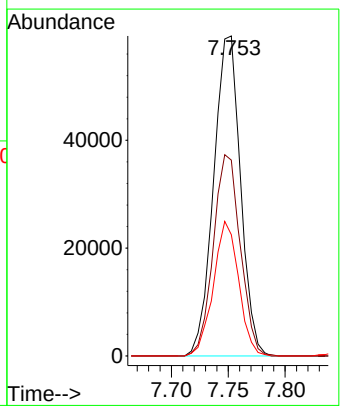
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

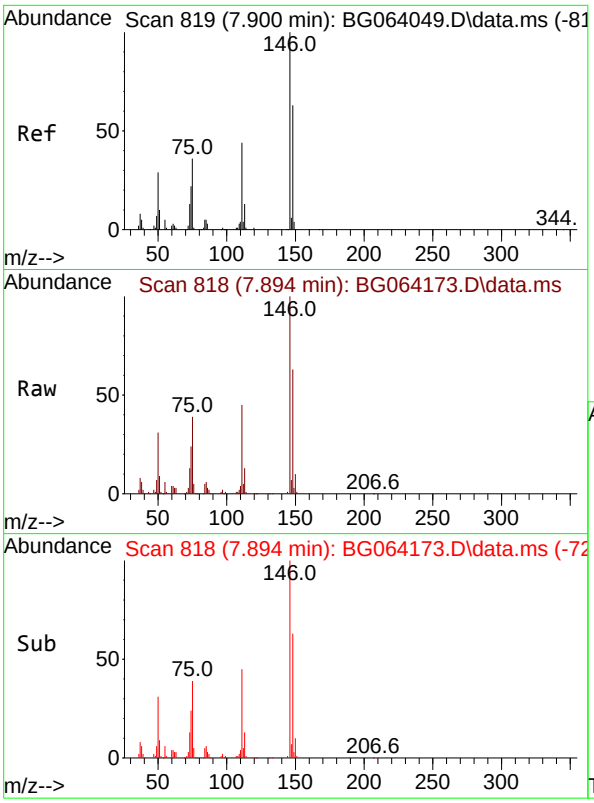


#12
1,3-Dichlorobenzene
Concen: 45.616 ng
RT: 7.753 min Scan# 794
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:146 Resp: 97597

Ion	Ratio	Lower	Upper
146	100		
148	61.2	52.6	78.8
75	37.9	28.1	42.1

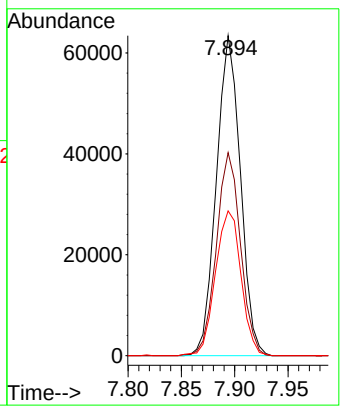




#13
1,4-Dichlorobenzene
Concen: 45.307 ng
RT: 7.894 min Scan# 81
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:146 Resp: 9936

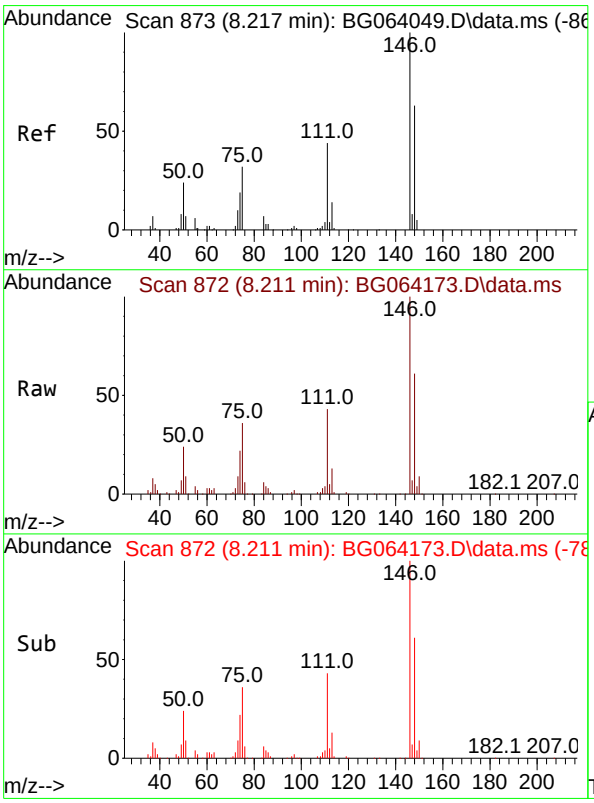
Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.6	75.8
111	45.3	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

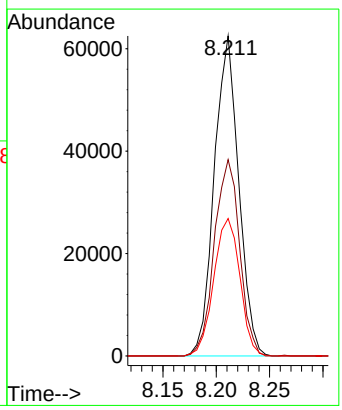
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

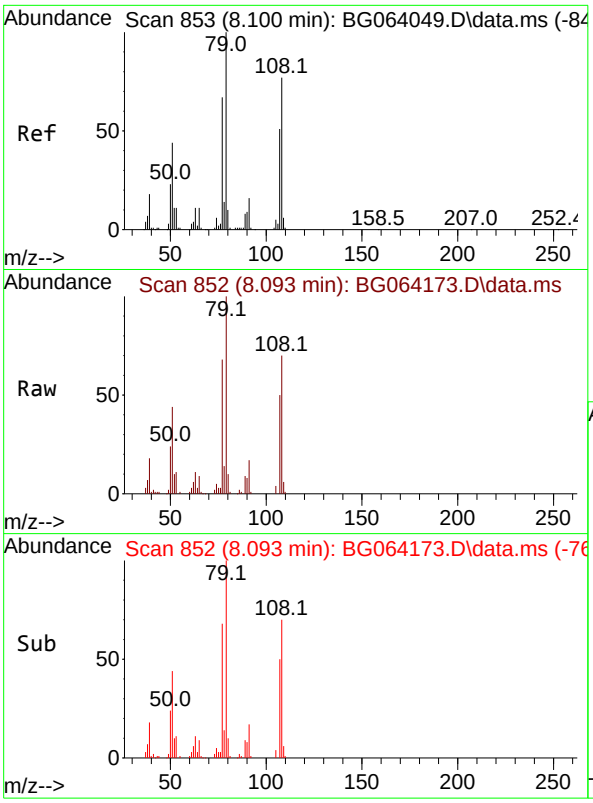


#14
1,2-Dichlorobenzene
Concen: 47.030 ng
RT: 8.211 min Scan# 872
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:146 Resp: 99453

Ion	Ratio	Lower	Upper
146	100		
148	61.3	50.2	75.2
111	42.9	36.4	54.6

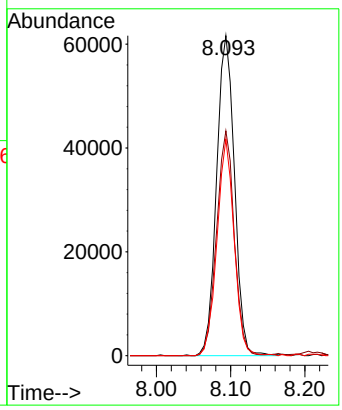




#15
Benzyl Alcohol
Concen: 54.167 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 79 Resp: 10330

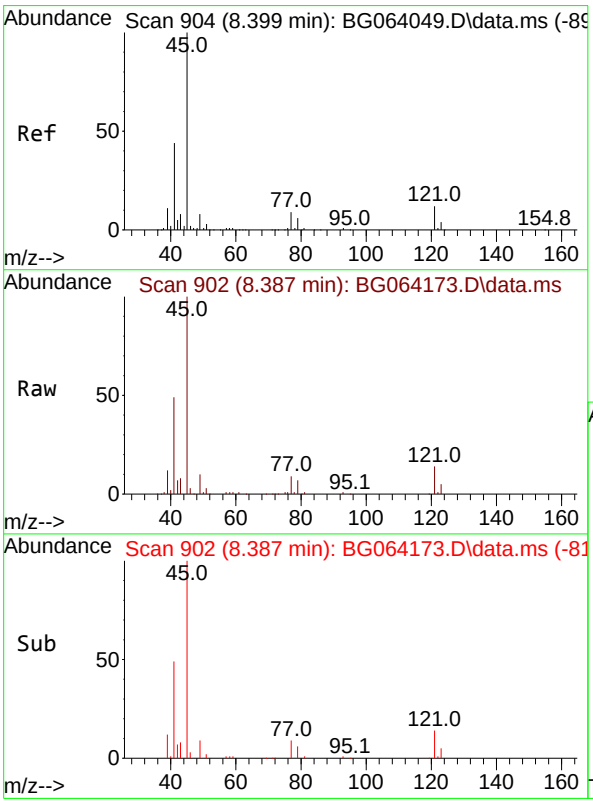
Ion	Ratio	Lower	Upper
79	100		
108	70.3	61.7	92.5
77	67.7	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

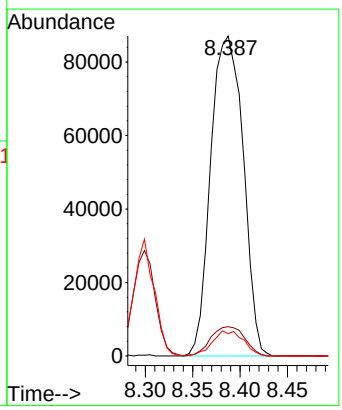
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

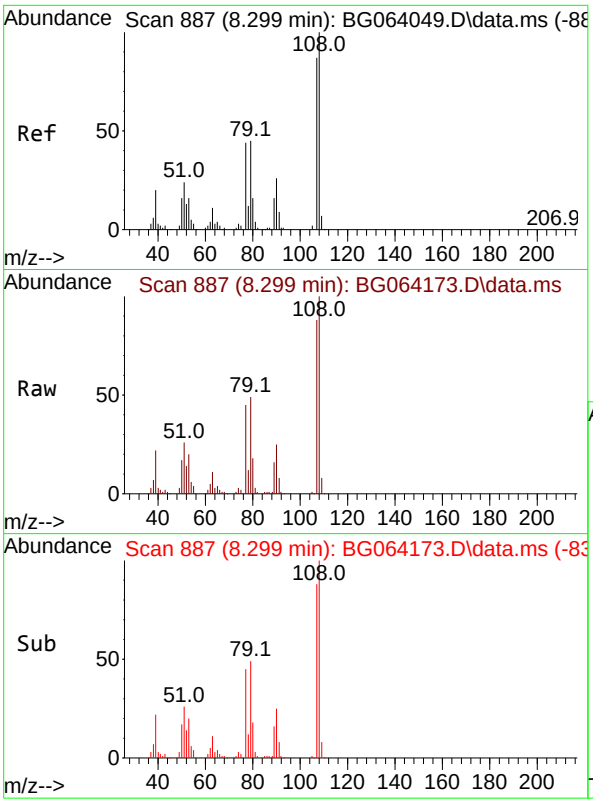


#16
2,2'-oxybis(1-Chloropropane)
Concen: 46.580 ng
RT: 8.387 min Scan# 902
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 45 Resp: 207476

Ion	Ratio	Lower	Upper
45	100		
77	9.1	0.0	29.0
79	6.9	0.0	26.6

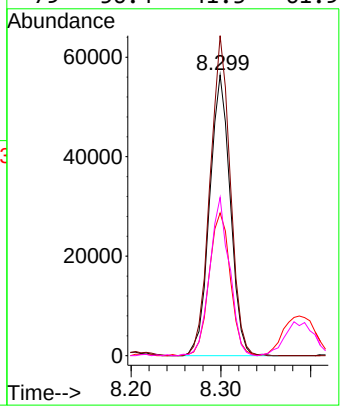




#17
2-Methylphenol
Concen: 53.615 ng
RT: 8.299 min Scan# 8
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:107 Resp: 8990

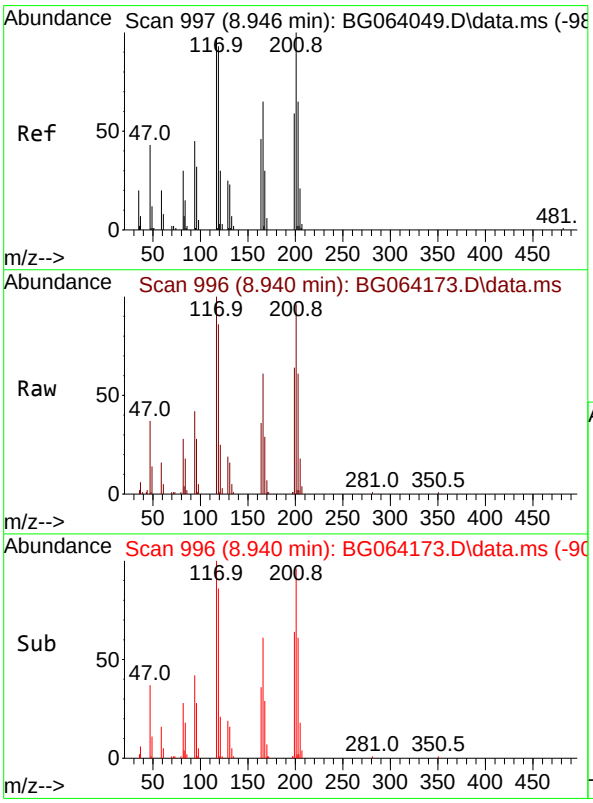
Ion	Ratio	Lower	Upper
107	100		
108	114.0	92.5	138.7
77	50.9	40.5	60.7
79	56.4	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

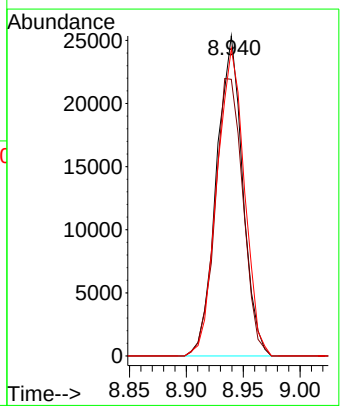
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

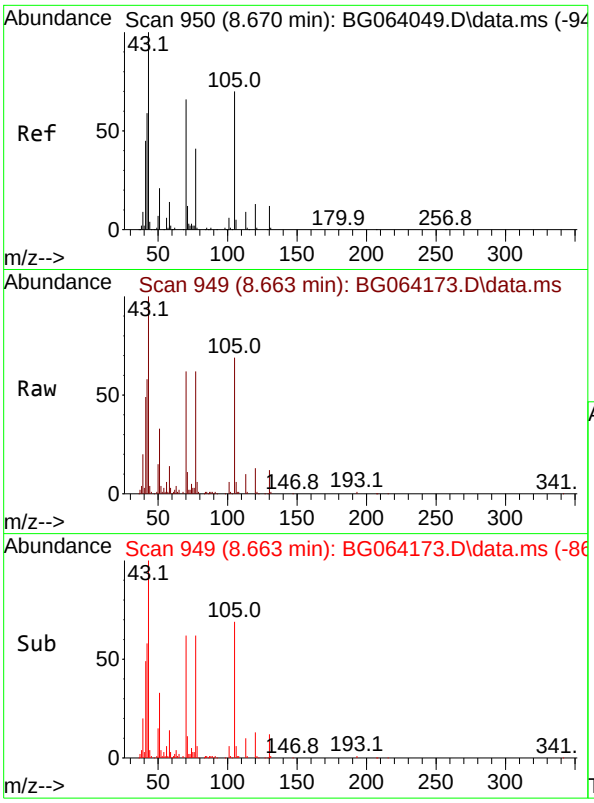


#18
Hexachloroethane
Concen: 52.819 ng
RT: 8.940 min Scan# 996
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:117 Resp: 40527

Ion	Ratio	Lower	Upper
117	100		
119	86.5	76.2	114.2
201	98.4	81.5	122.3

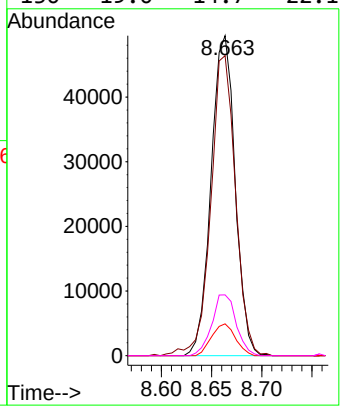




#19
n-Nitroso-di-n-propylamine
Concen: 47.586 ng
RT: 8.663 min Scan# 94
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 70 Resp: 8241

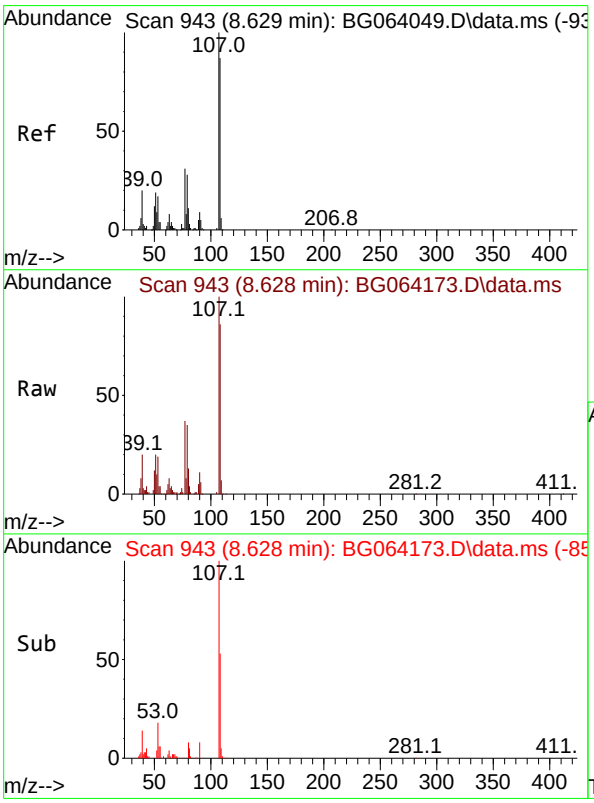
Ion	Ratio	Lower	Upper
70	100		
42	93.7	72.1	108.1
101	10.0	7.2	10.8
130	19.0	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

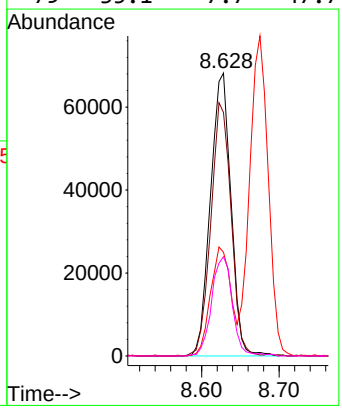
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

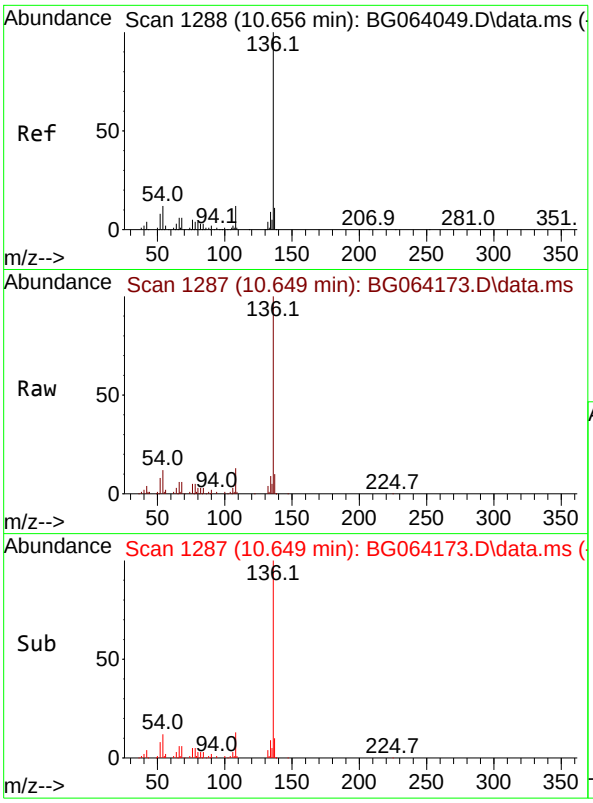


#20
3+4-Methylphenols
Concen: 54.340 ng
RT: 8.628 min Scan# 943
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:107 Resp: 125453

Ion	Ratio	Lower	Upper
107	100		
108	86.1	67.0	107.0
77	36.7	11.2	51.2
79	35.1	7.7	47.7

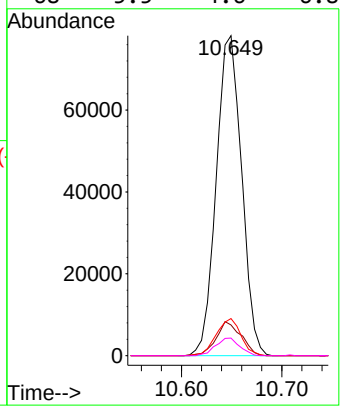




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:136 Resp: 13739

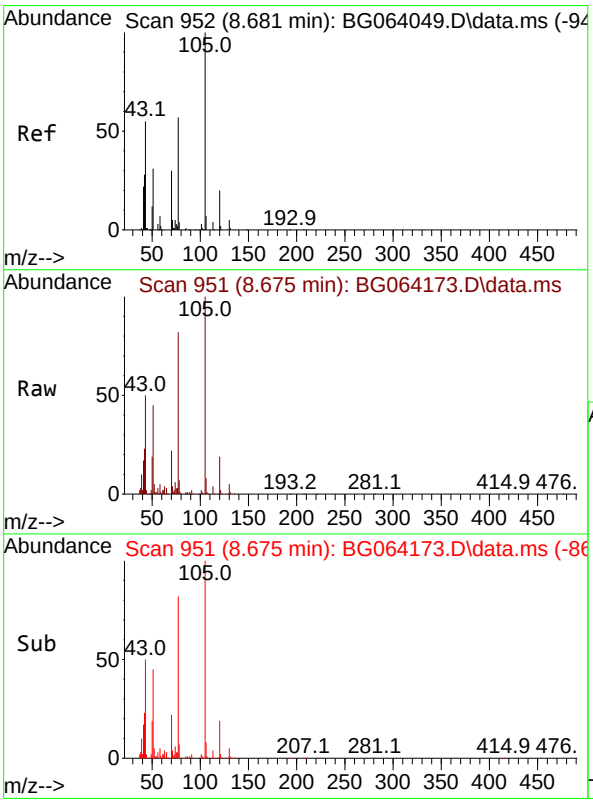
Ion	Ratio	Lower	Upper
136	100		
137	9.6	8.5	12.7
54	11.6	9.9	14.9
68	5.5	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

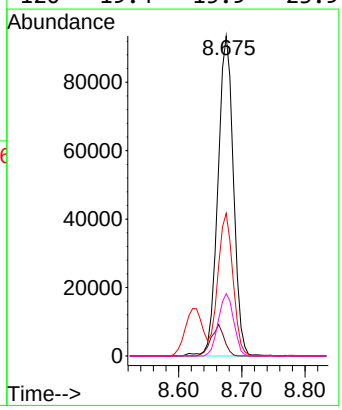
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

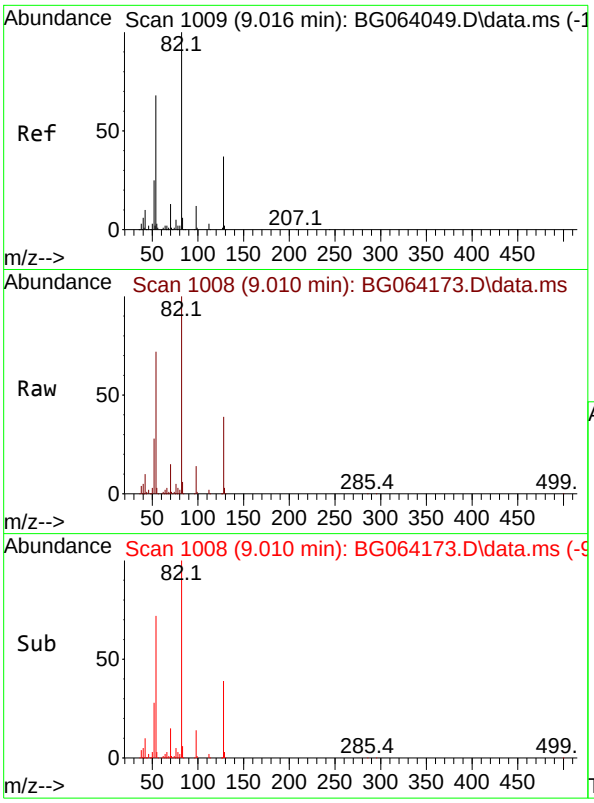


#22
Acetophenone
Concen: 42.244 ng
RT: 8.675 min Scan# 951
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:105 Resp: 159135

Ion	Ratio	Lower	Upper
105	100		
71	3.6	4.2	6.4#
51	44.5	33.3	49.9
120	19.4	15.9	23.9

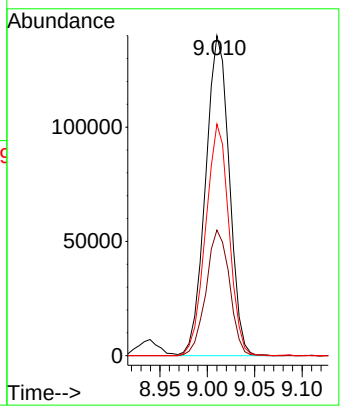




#23
Nitrobenzene-d5
Concen: 97.800 ng
RT: 9.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 82 Resp: 24314

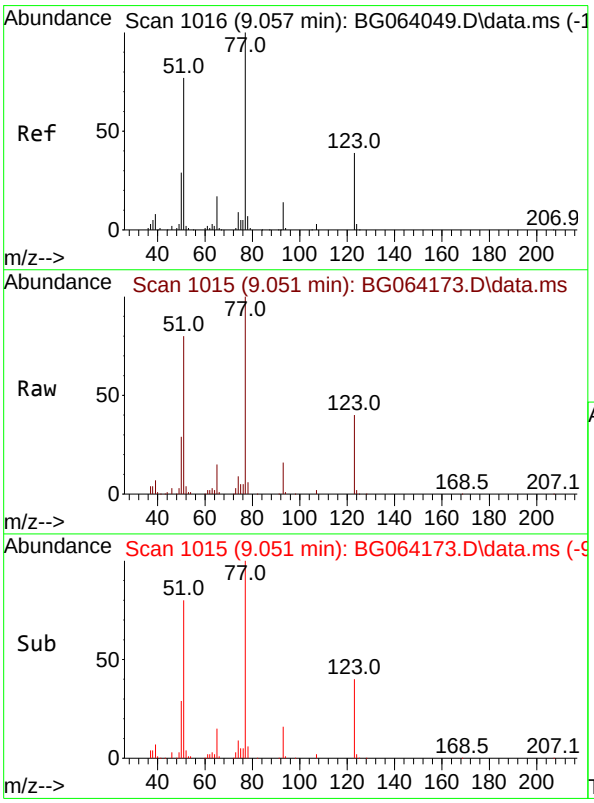
Ion	Ratio	Lower	Upper
82	100		
128	39.3	30.0	45.0
54	72.4	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

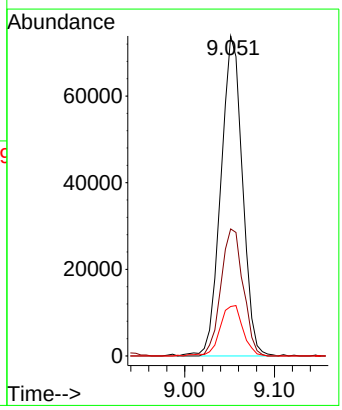
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

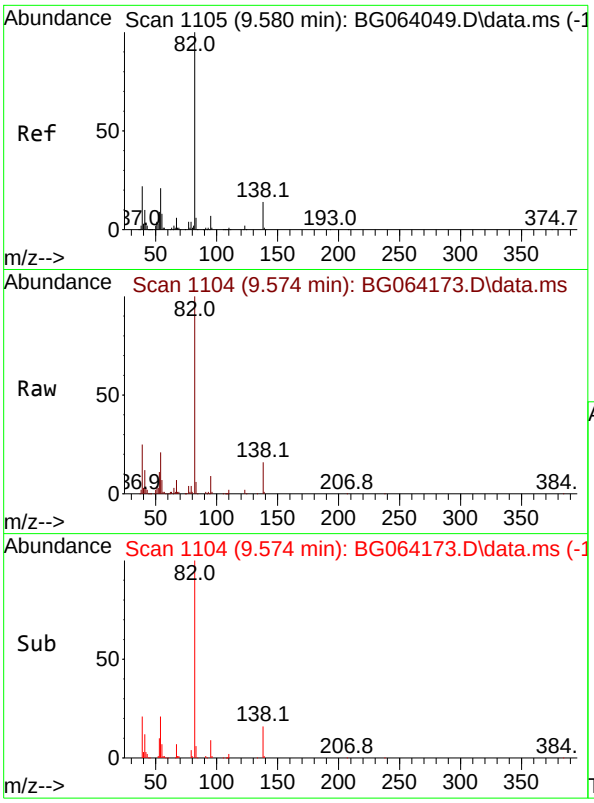


#24
Nitrobenzene
Concen: 47.970 ng
RT: 9.051 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 77 Resp: 123254

Ion	Ratio	Lower	Upper
77	100		
123	39.7	31.4	47.2
65	15.4	13.4	20.0

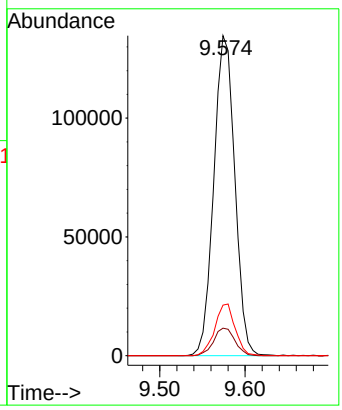




#25
Isophorone
Concen: 46.361 ng
RT: 9.574 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 82 Resp: 23070

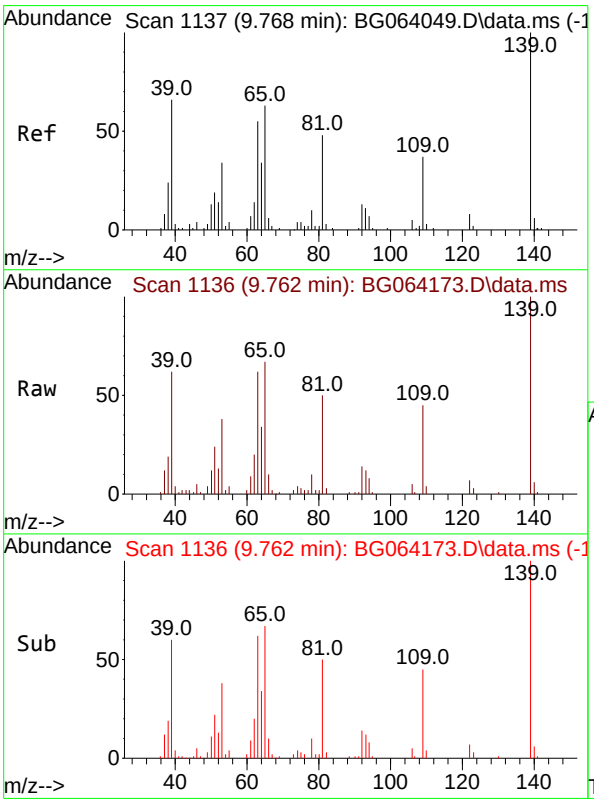
Ion	Ratio	Lower	Upper
82	100		
95	8.6	5.8	8.8
138	15.8	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

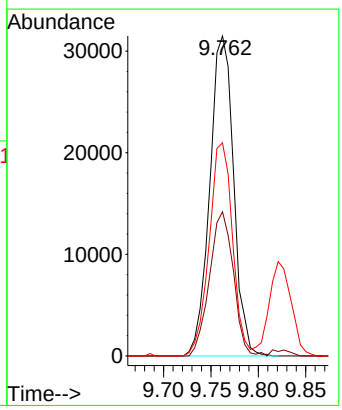
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

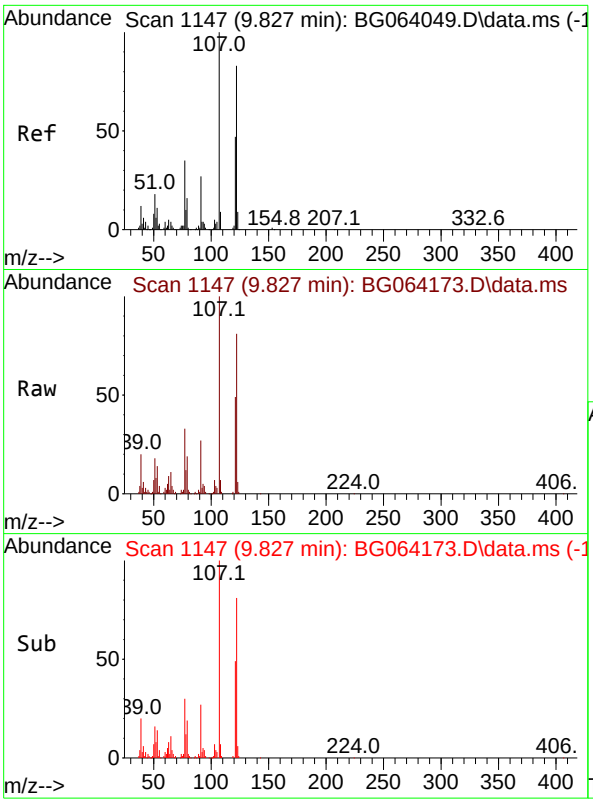


#26
2-Nitrophenol
Concen: 58.817 ng
RT: 9.762 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:139 Resp: 54963

Ion	Ratio	Lower	Upper
139	100		
109	45.1	29.9	44.9#
65	66.6	50.6	76.0

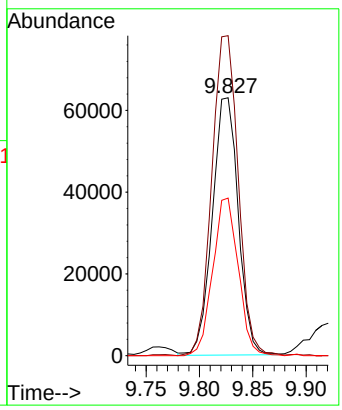




#27
2,4-Dimethylphenol
Concen: 71.211 ng
RT: 9.827 min Scan# 11
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:122 Resp: 10623

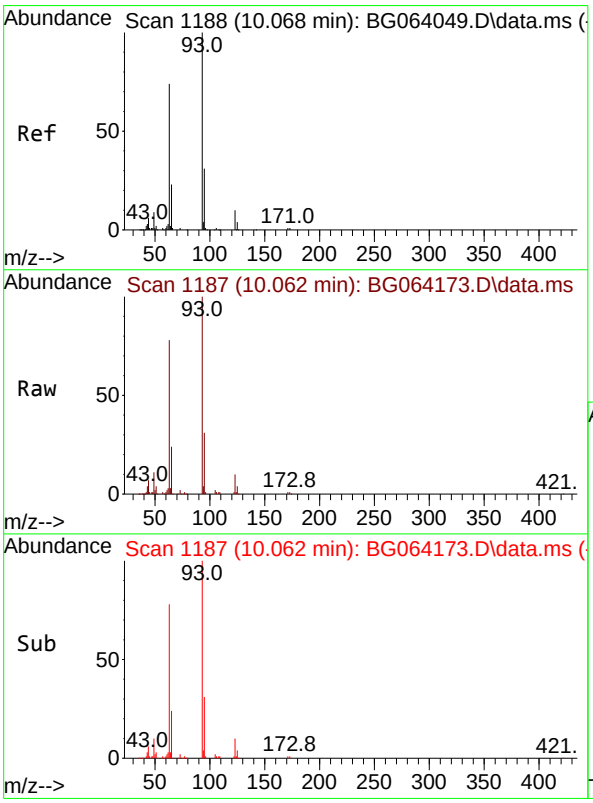
Ion	Ratio	Lower	Upper
122	100		
107	124.0	95.4	143.0
121	61.1	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

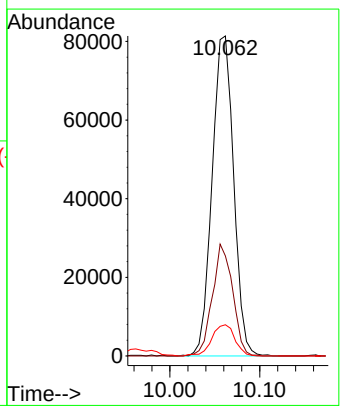
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

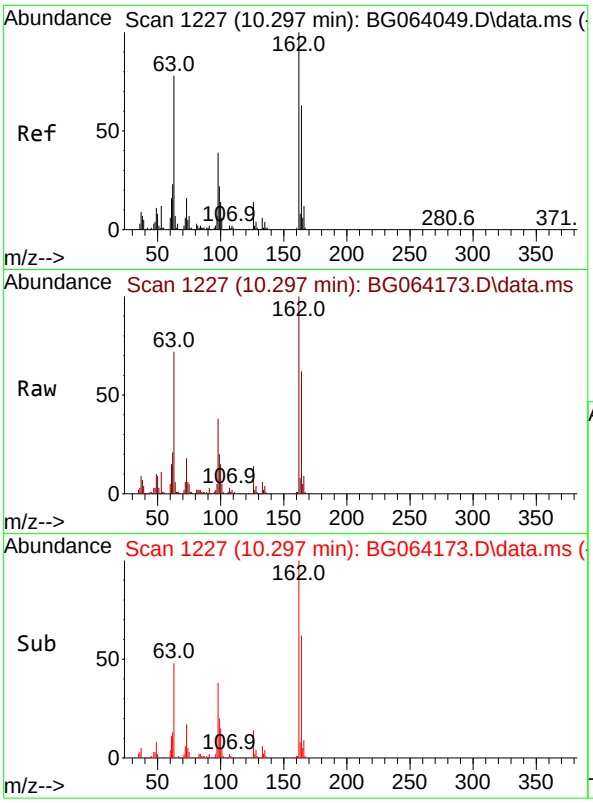


#28
bis(2-Chloroethoxy)methane
Concen: 44.926 ng
RT: 10.062 min Scan# 1187
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 93 Resp: 135542

Ion	Ratio	Lower	Upper
93	100		
95	31.3	25.0	37.4
123	9.8	7.6	11.4

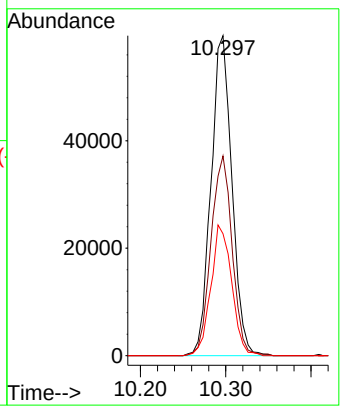




#29
2,4-Dichlorophenol
Concen: 53.917 ng
RT: 10.297 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:162 Resp: 10156

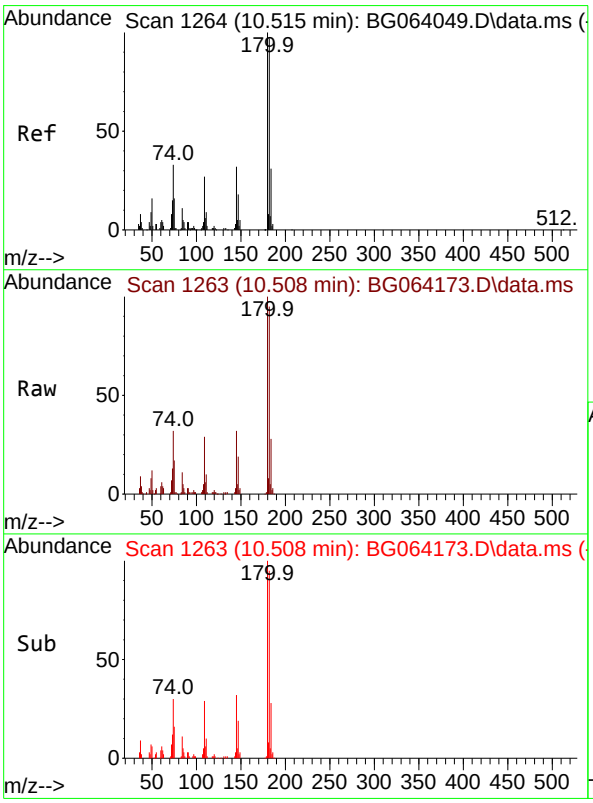
Ion	Ratio	Lower	Upper
162	100		
164	62.4	42.8	82.8
98	38.1	19.1	59.1



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

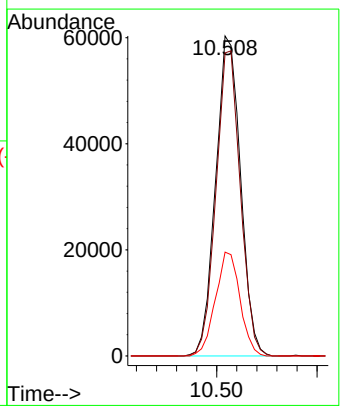
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

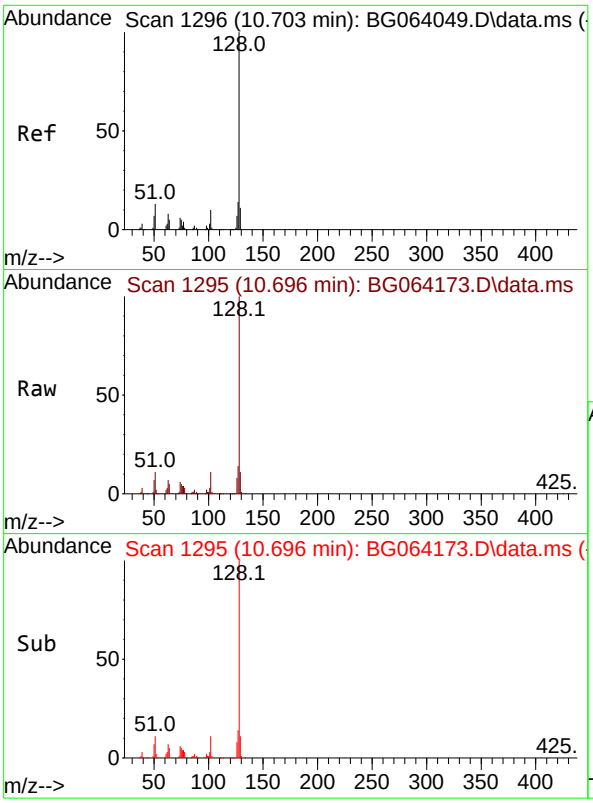


#30
1,2,4-Trichlorobenzene
Concen: 45.580 ng
RT: 10.508 min Scan# 1263
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:180 Resp: 103648

Ion	Ratio	Lower	Upper
180	100		
182	94.7	77.3	115.9
145	32.4	25.2	37.8

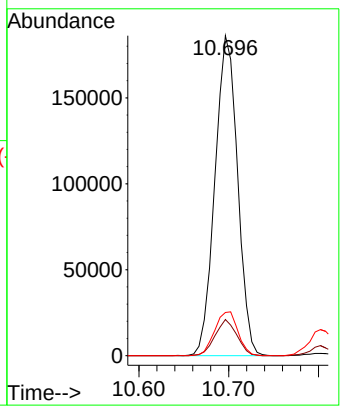




#31
Naphthalene
Concen: 43.961 ng
RT: 10.696 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:128 Resp: 32568

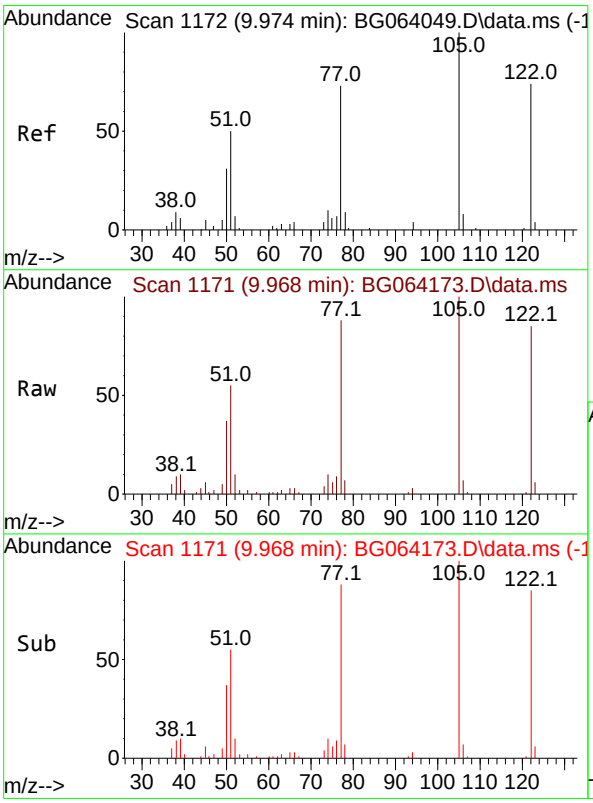
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.4	12.6
127	13.5	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED

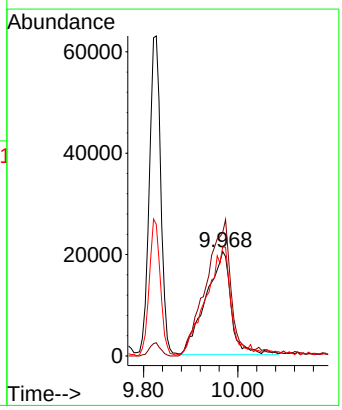
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

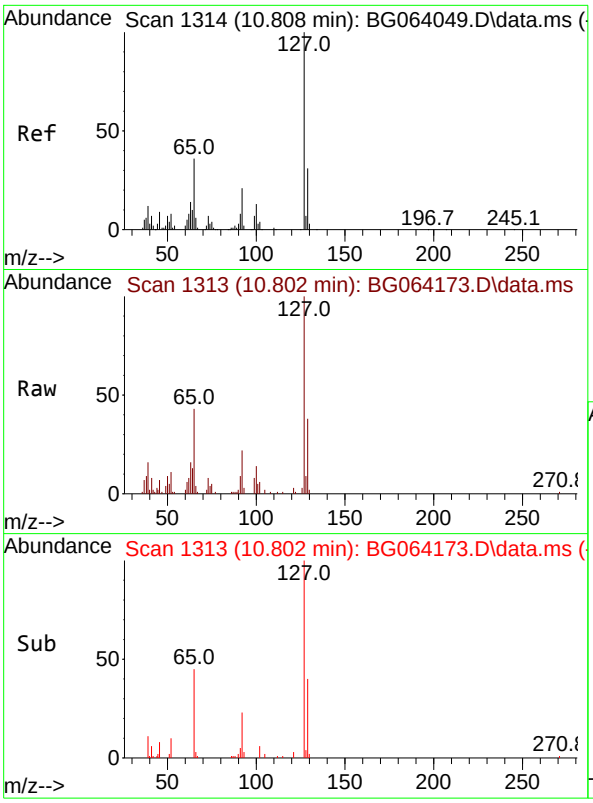


#32
Benzoic acid
Concen: 54.083 ng m
RT: 9.968 min Scan# 1171
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:122 Resp: 75930

Ion	Ratio	Lower	Upper
122	100		
105	118.0	115.0	155.0
77	104.3	80.9	120.9

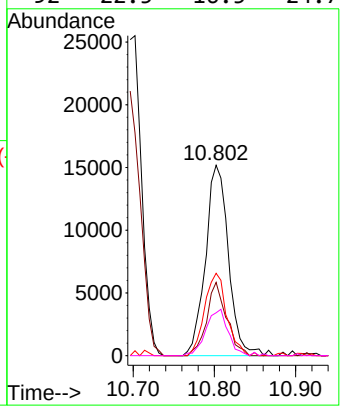




#33
4-Chloroaniline
Concen: 11.034 ng
RT: 10.802 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:127 Resp: 2987

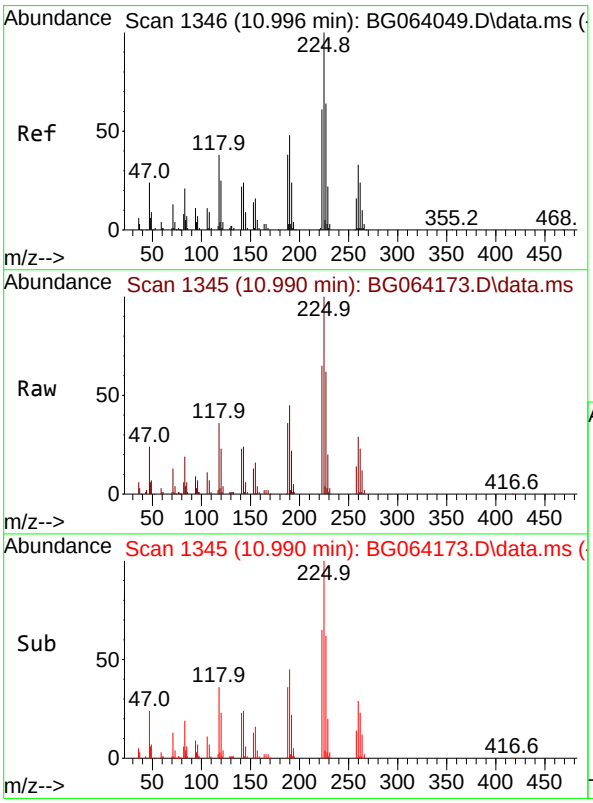
Ion	Ratio	Lower	Upper
127	100		
129	38.5	25.0	37.4#
65	43.3	28.5	42.7#
92	22.5	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

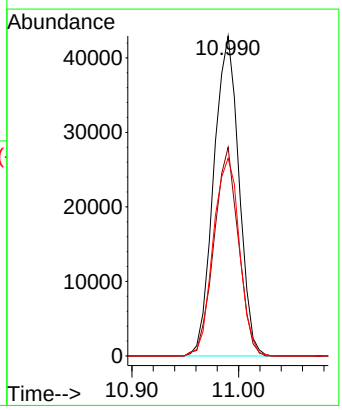
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

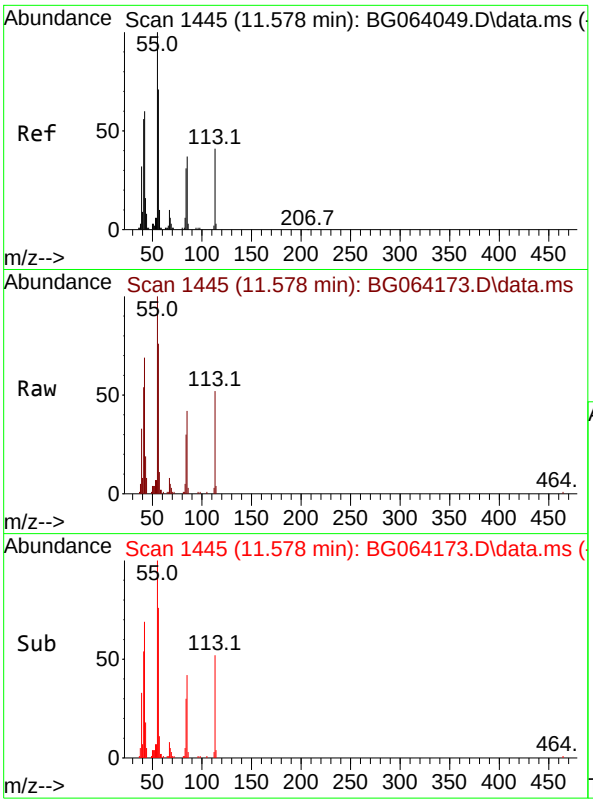


#34
Hexachlorobutadiene
Concen: 47.202 ng
RT: 10.990 min Scan# 1345
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:225 Resp: 70355

Ion	Ratio	Lower	Upper
225	100		
223	65.2	48.5	72.7
227	61.8	51.0	76.6





#35
Caprolactam
Concen: 54.631 ng m
RT: 11.578 min Scan# 14
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

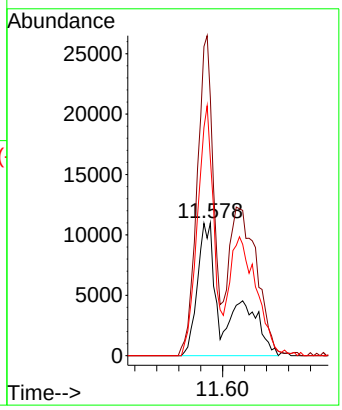
Tgt Ion:113 Resp: 3943

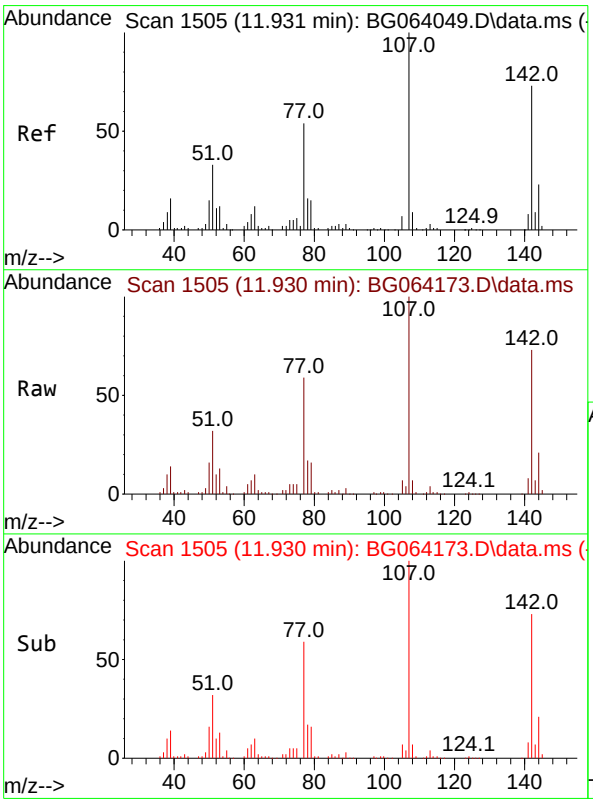
Ion	Ratio	Lower	Upper
113	100		
55	194.0	225.2	265.2#
56	148.2	153.4	193.4#

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

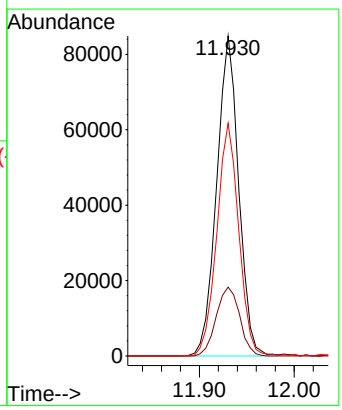


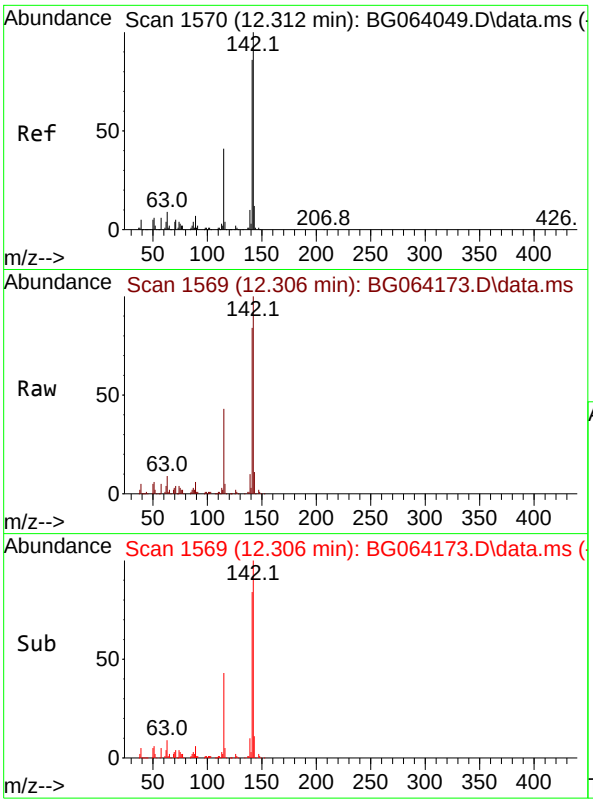


#36
4-Chloro-3-methylphenol
Concen: 55.426 ng
RT: 11.930 min Scan# 1505
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:107 Resp: 136856

Ion	Ratio	Lower	Upper
107	100		
144	21.5	18.6	28.0
142	72.7	58.0	87.0

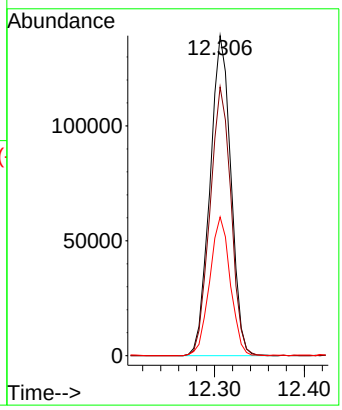




#37
2-Methylnaphthalene
Concen: 43.093 ng
RT: 12.306 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:142 Resp: 22538

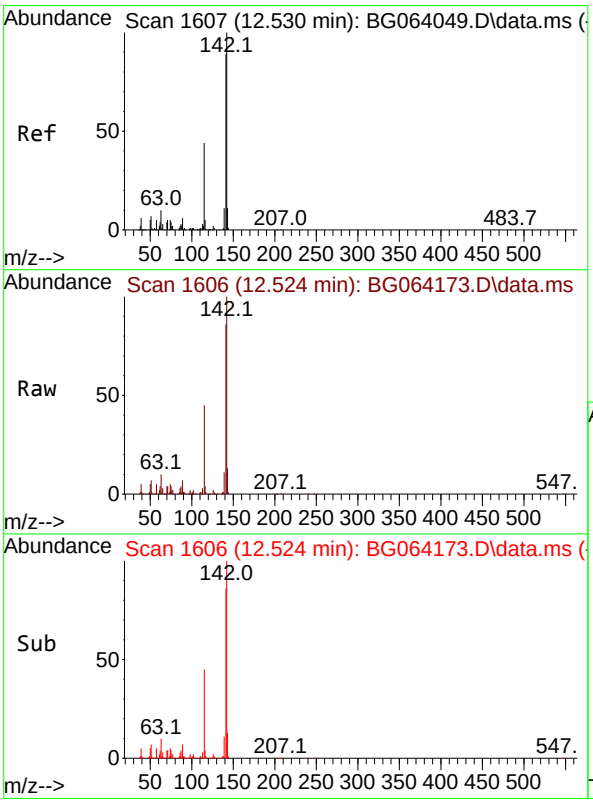
Ion	Ratio	Lower	Upper
142	100		
141	84.0	68.6	103.0
115	43.3	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED

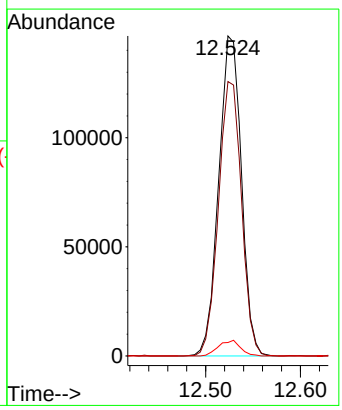
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

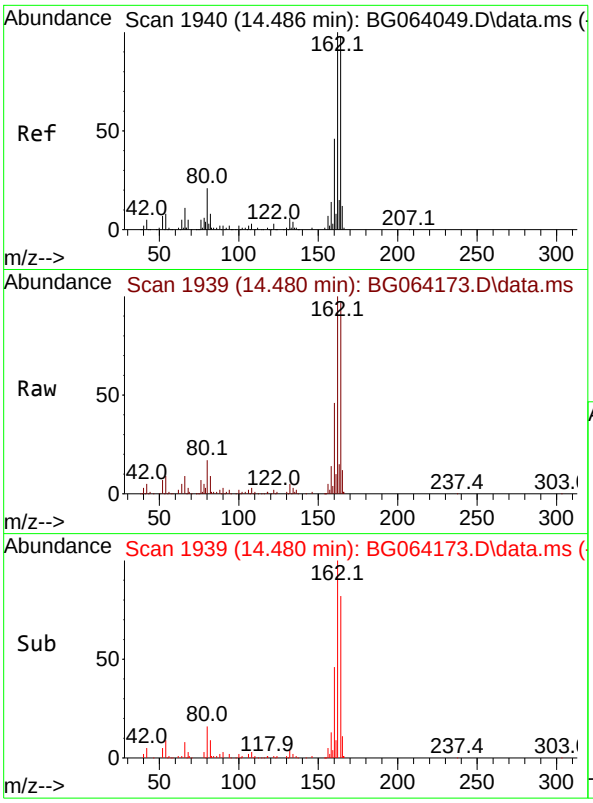


#38
1-Methylnaphthalene
Concen: 47.566 ng
RT: 12.524 min Scan# 1606
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:142 Resp: 243729

Ion	Ratio	Lower	Upper
142	100		
141	85.8	71.2	106.8
116	4.2	3.6	5.4

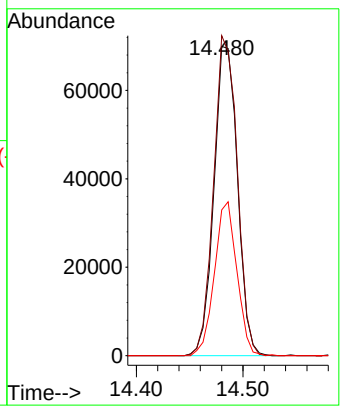




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.480 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:164 Resp: 10739

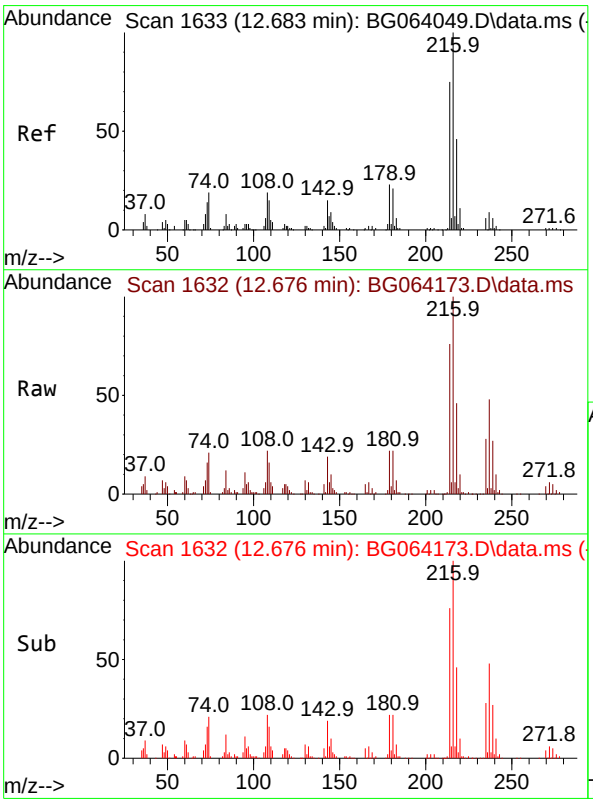
Ion	Ratio	Lower	Upper
164	100		
162	103.5	81.4	122.0
160	47.2	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

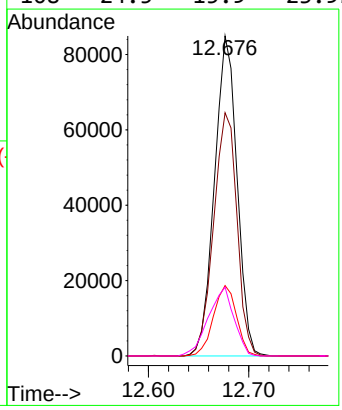
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

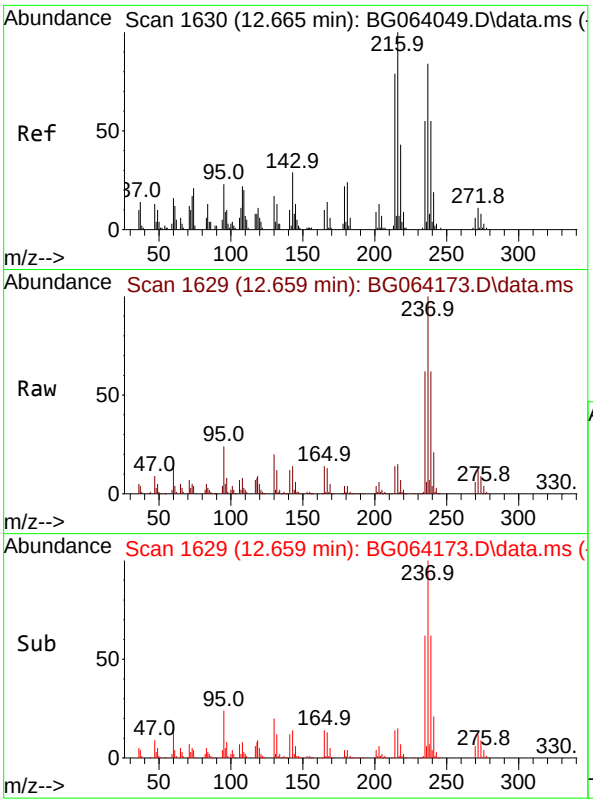


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.271 ng
RT: 12.676 min Scan# 1632
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:216 Resp: 132670

Ion	Ratio	Lower	Upper
216	100		
214	78.3	61.7	92.5
179	22.5	17.9	26.9
108	24.5	15.9	23.9#

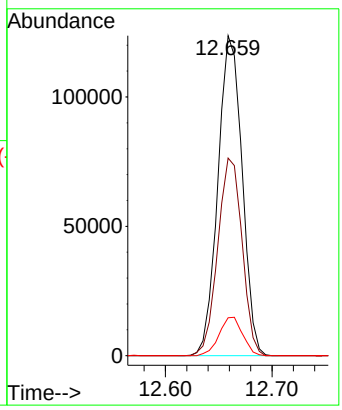




#41
Hexachlorocyclopentadiene
Concen: 225.856 ng
RT: 12.659 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:237 Resp: 19489

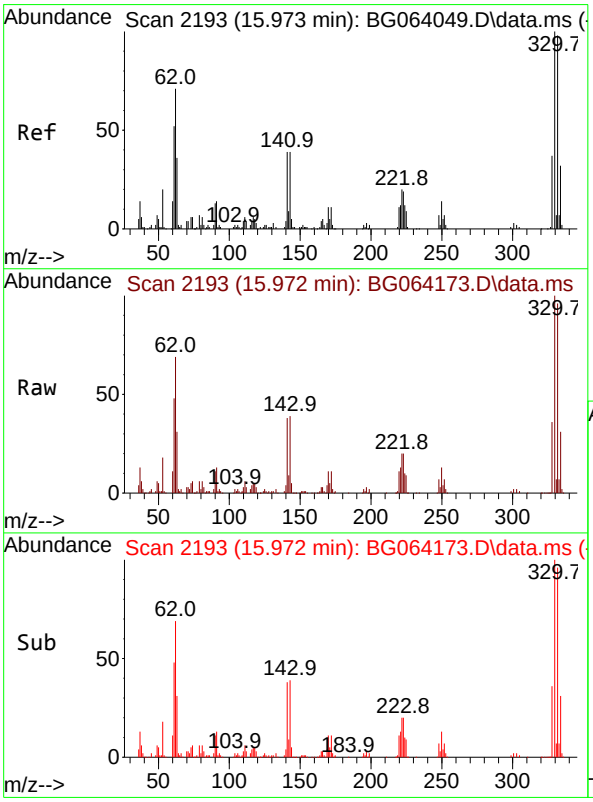
Ion	Ratio	Lower	Upper
237	100		
235	61.8	46.0	86.0
272	11.8	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

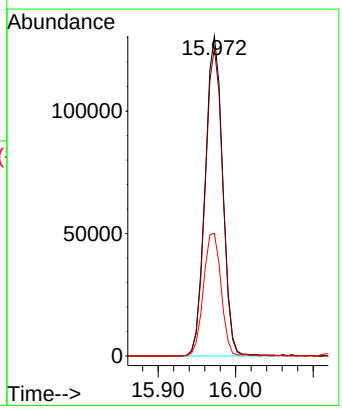
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

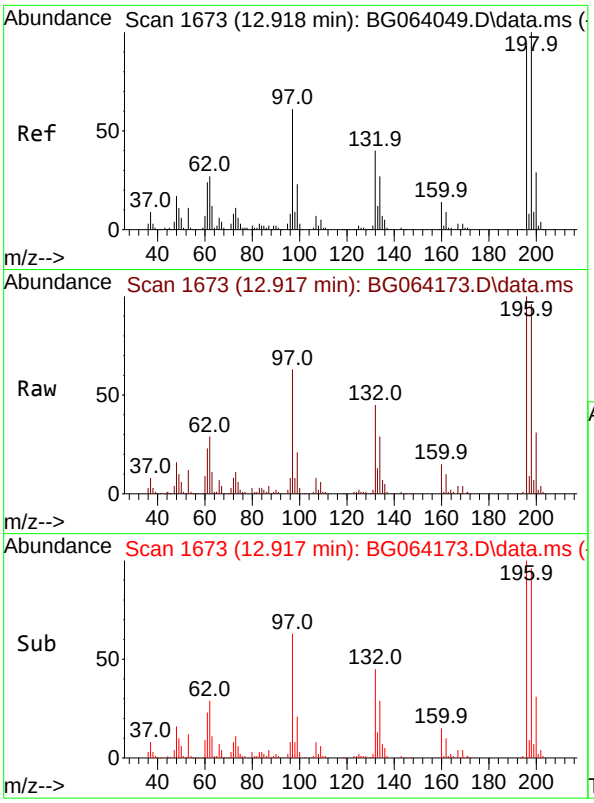


#42
2,4,6-Tribromophenol
Concen: 171.293 ng
RT: 15.972 min Scan# 2193
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:330 Resp: 204481

Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.7	115.1
141	38.8	29.7	44.5

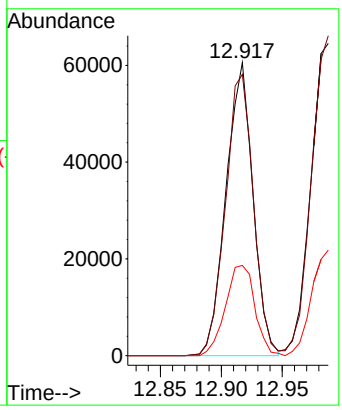




#43
2,4,6-Trichlorophenol
Concen: 51.657 ng
RT: 12.917 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:196 Resp: 9334

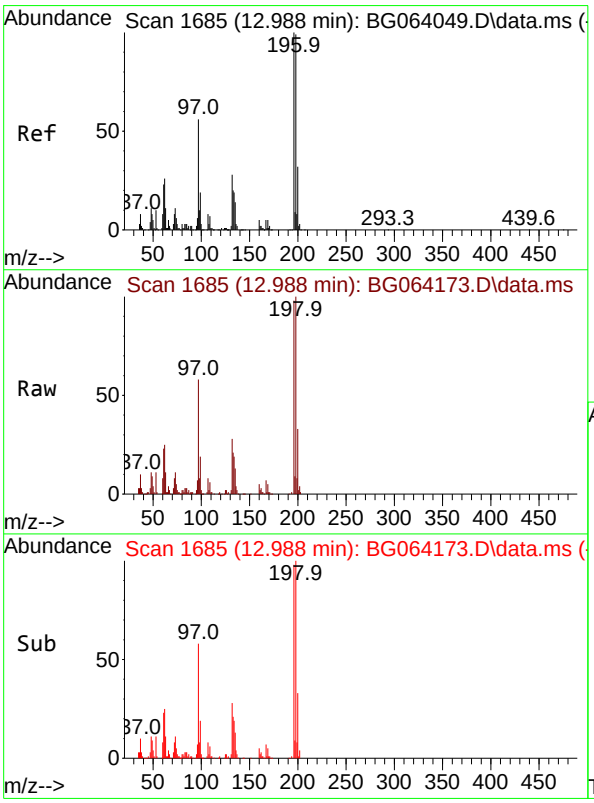
Ion	Ratio	Lower	Upper
196	100		
198	96.0	85.6	128.4
200	30.8	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

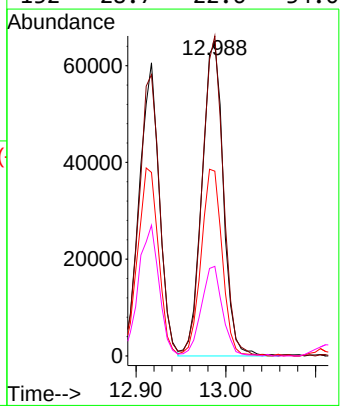
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

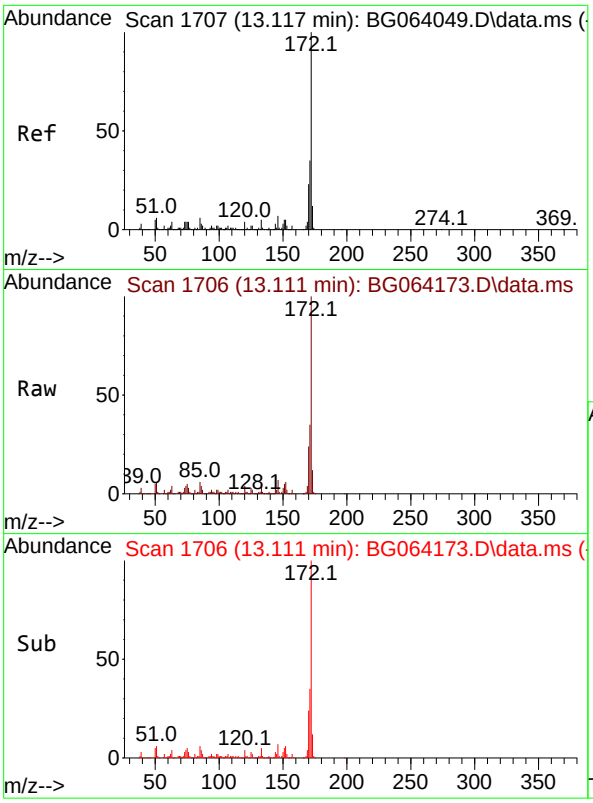


#44
2,4,5-Trichlorophenol
Concen: 53.475 ng
RT: 12.988 min Scan# 1685
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:196 Resp: 107368

Ion	Ratio	Lower	Upper
196	100		
198	102.5	79.5	119.3
97	59.2	45.2	67.8
132	28.7	22.6	34.0

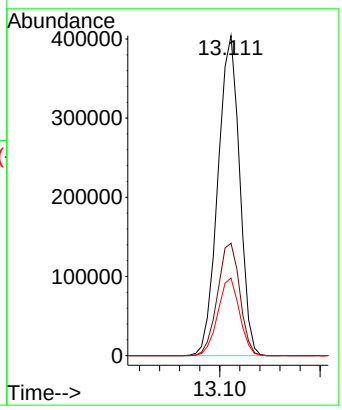




#45
2-Fluorobiphenyl
Concen: 85.612 ng
RT: 13.111 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:172 Resp: 60572

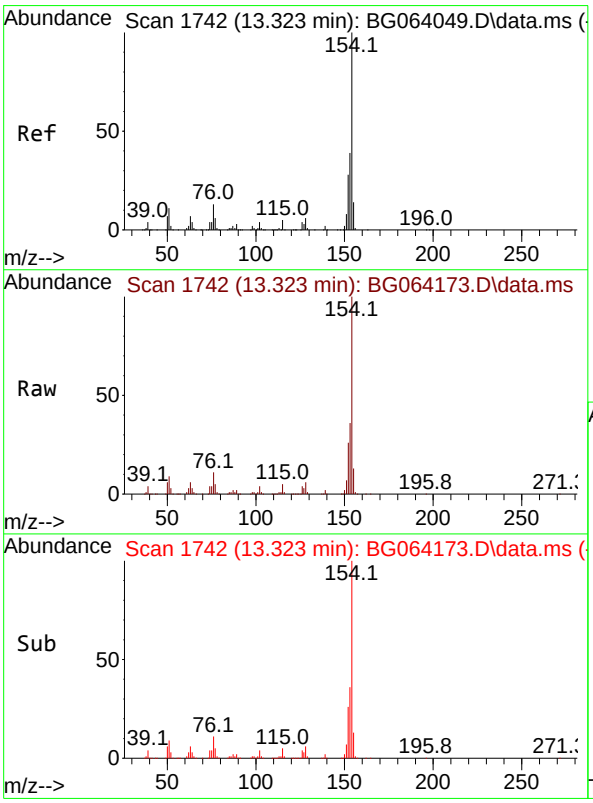
Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.0	42.0
170	24.2	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED

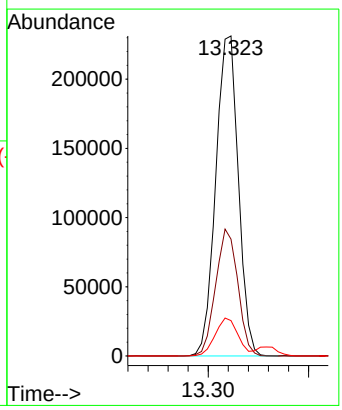
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

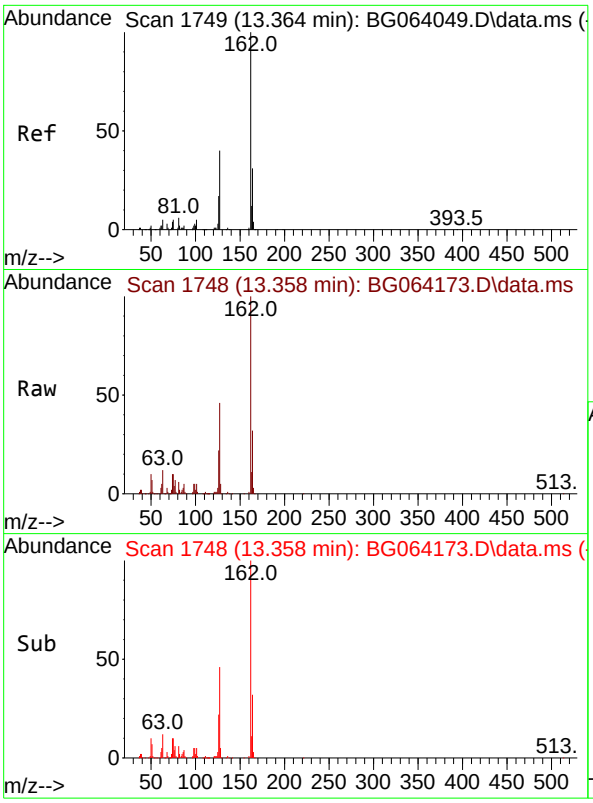


#46
1,1'-Biphenyl
Concen: 44.426 ng
RT: 13.323 min Scan# 1742
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:154 Resp: 360456

Ion	Ratio	Lower	Upper
154	100		
153	36.5	19.5	59.5
76	11.0	0.0	33.5

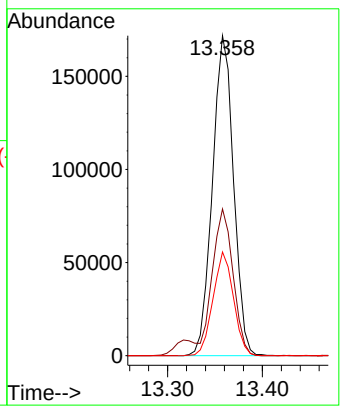




#47
2-Chloronaphthalene
Concen: 44.896 ng
RT: 13.358 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:162 Resp: 26567

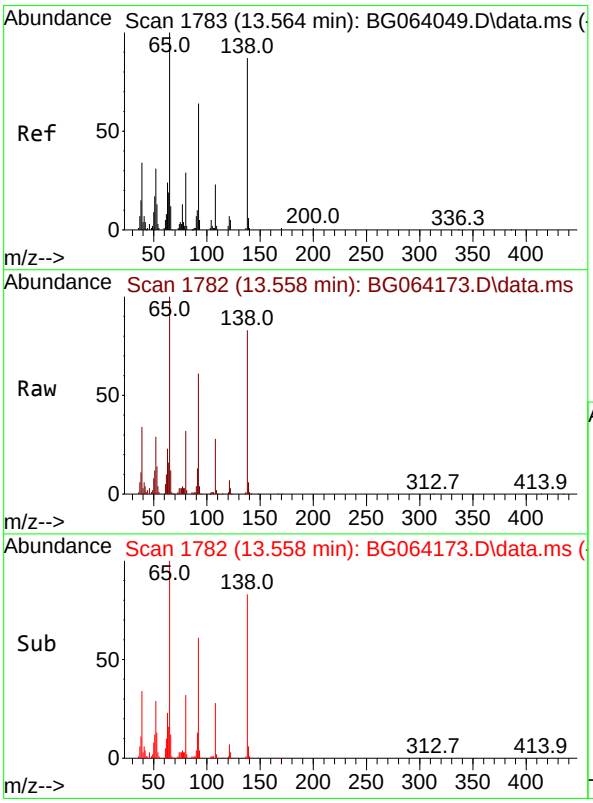
Ion	Ratio	Lower	Upper
162	100		
127	45.9	35.0	52.4
164	32.4	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

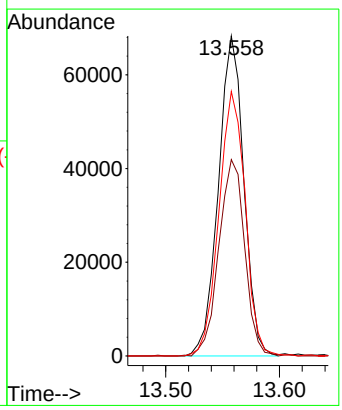
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

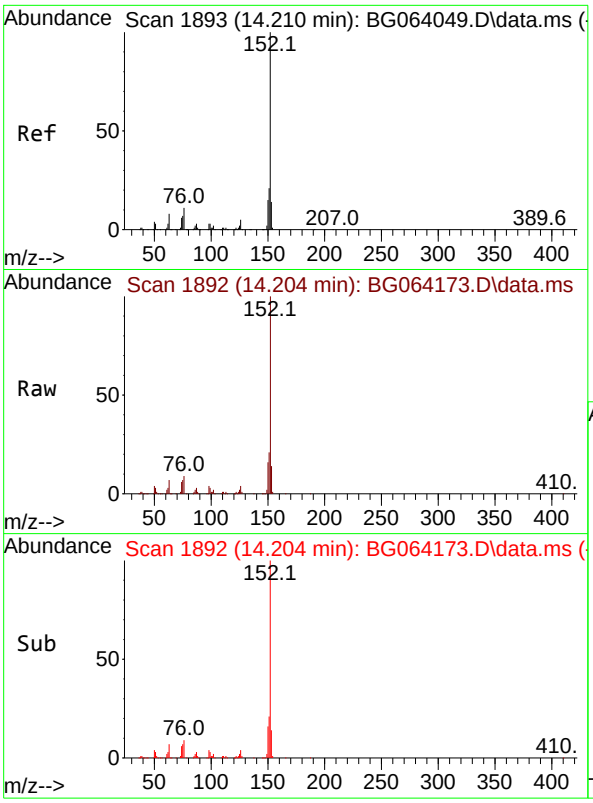


#48
2-Nitroaniline
Concen: 52.905 ng
RT: 13.558 min Scan# 1782
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 65 Resp: 106132

Ion	Ratio	Lower	Upper
65	100		
92	61.3	51.2	76.8
138	82.7	69.4	104.2

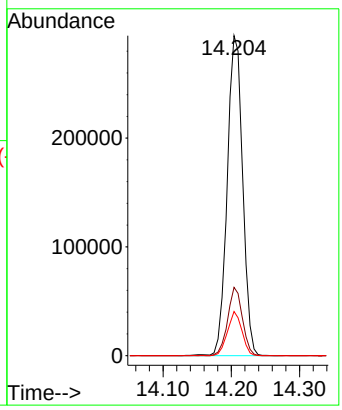




#49
Acenaphthylene
Concen: 49.433 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:152 Resp: 46268

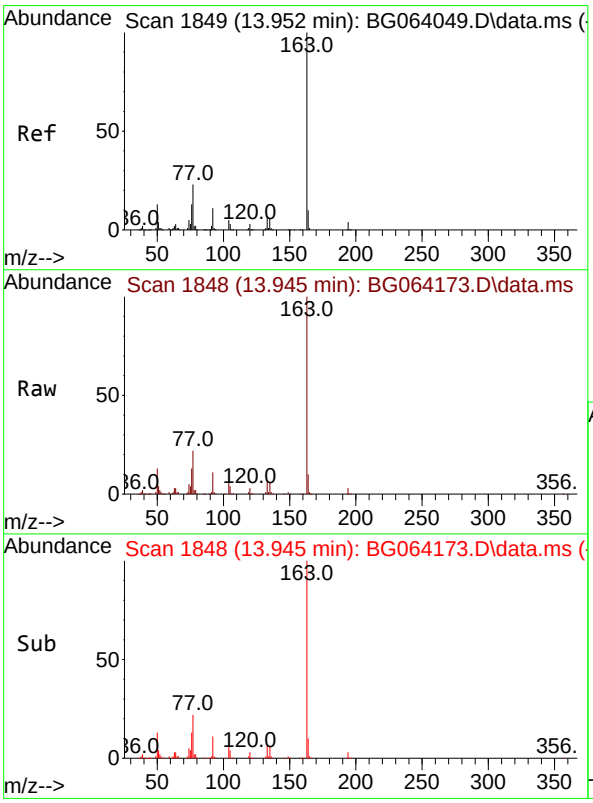
Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.4	24.6
153	13.8	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations APPROVED

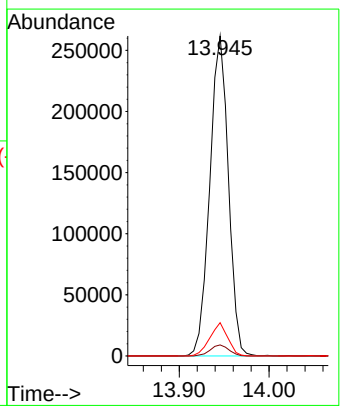
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

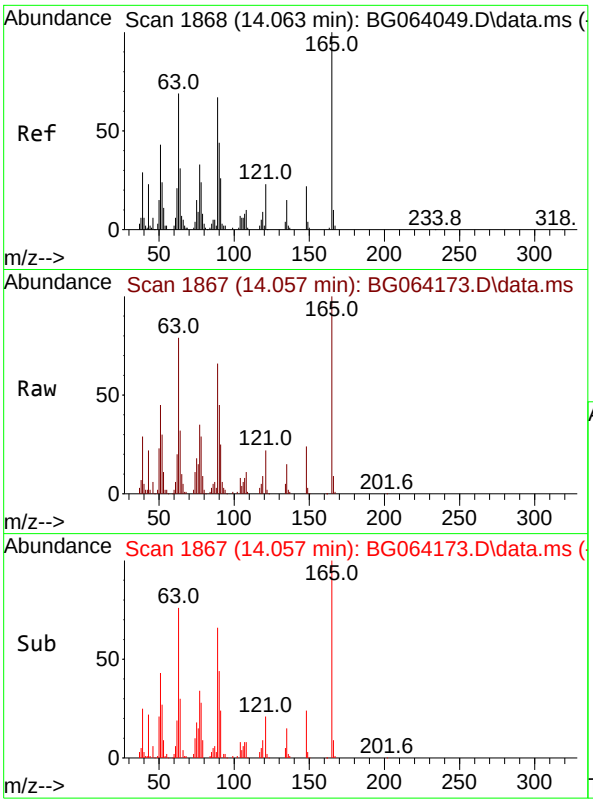


#50
Dimethylphthalate
Concen: 47.492 ng
RT: 13.945 min Scan# 1848
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:163 Resp: 376489

Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.8	4.2
164	10.4	8.2	12.2

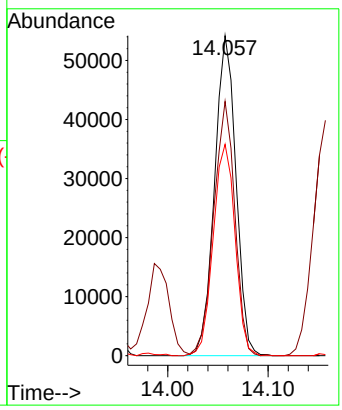




#51
2,6-Dinitrotoluene
Concen: 49.677 ng
RT: 14.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:165 Resp: 8009

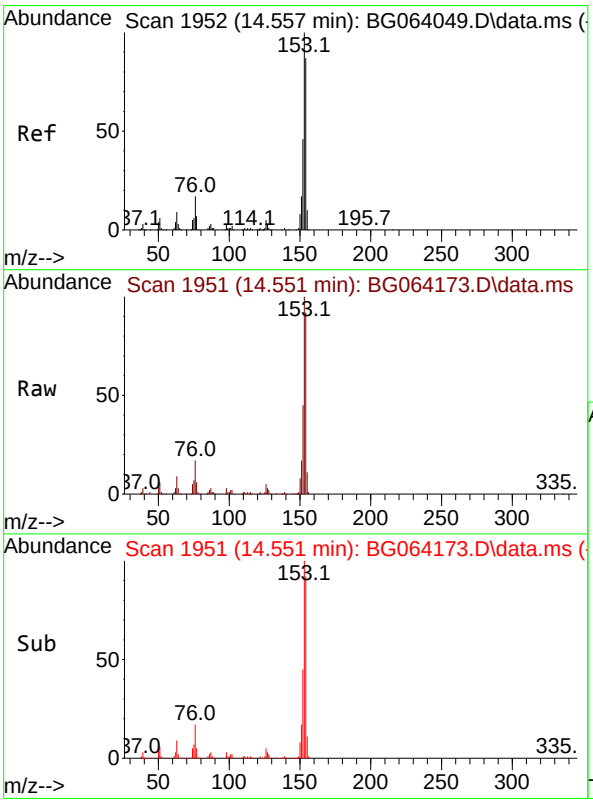
Ion	Ratio	Lower	Upper
165	100		
63	79.5	56.7	85.1
89	66.1	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

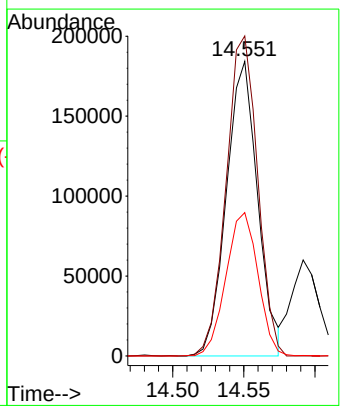
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

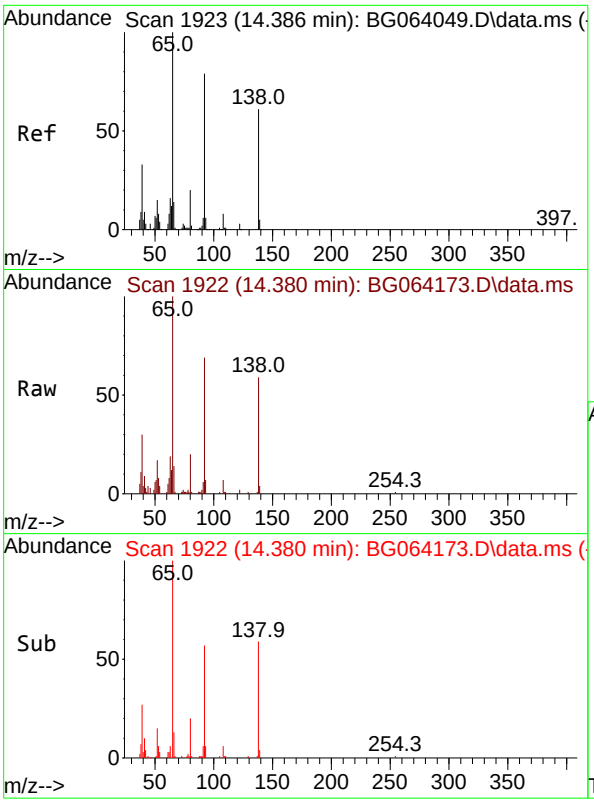


#52
Acenaphthene
Concen: 44.991 ng
RT: 14.551 min Scan# 1951
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:154 Resp: 282611

Ion	Ratio	Lower	Upper
154	100		
153	108.6	91.6	137.4
152	48.7	42.5	63.7





#53
3-Nitroaniline
Concen: 20.602 ng
RT: 14.380 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

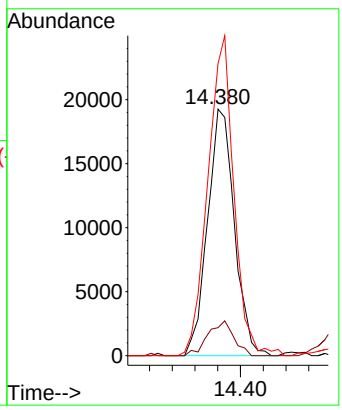
Tgt Ion:138 Resp: 3156

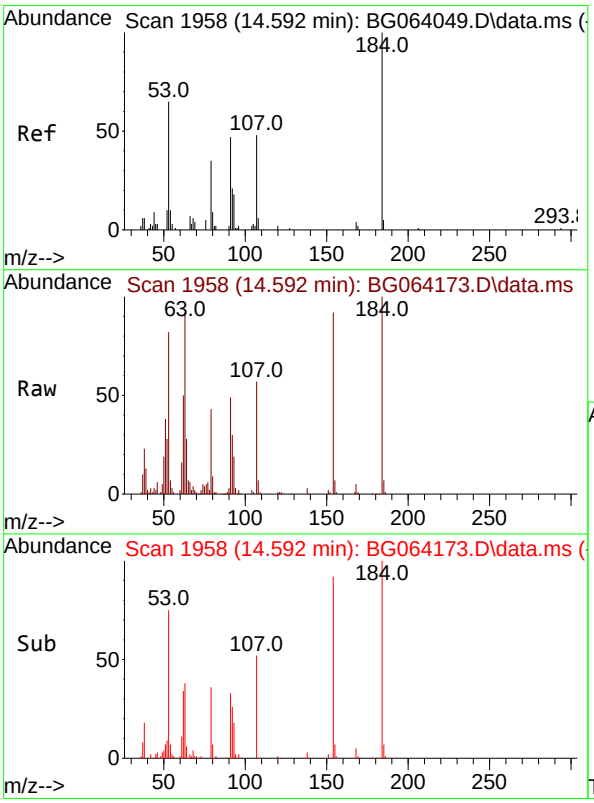
Ion	Ratio	Lower	Upper
138	100		
108	11.3	10.1	15.1
92	118.4	104.1	156.1

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

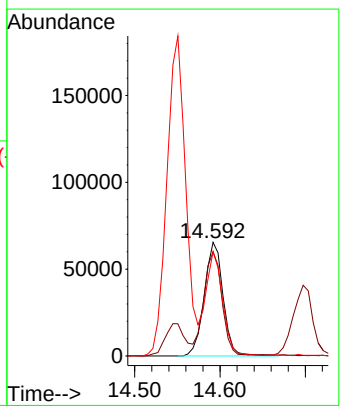


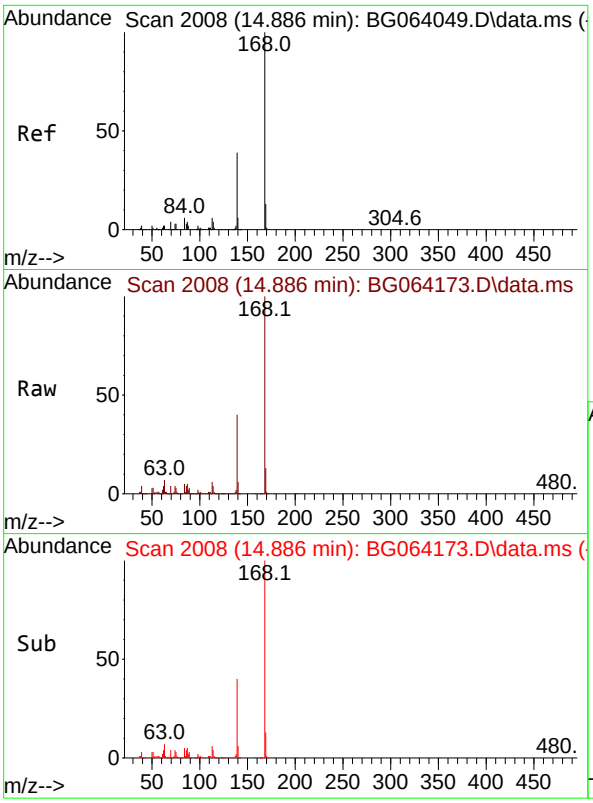


#54
2,4-Dinitrophenol
Concen: 142.446 ng
RT: 14.592 min Scan# 1958
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:184 Resp: 100093

Ion	Ratio	Lower	Upper
184	100		
63	91.8	57.5	86.3#
154	91.9	52.3	78.5#

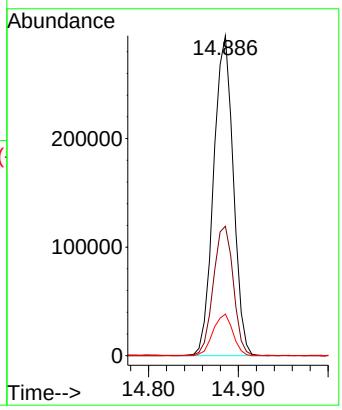




#55
Dibenzofuran
Concen: 44.074 ng
RT: 14.886 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:168 Resp: 44850

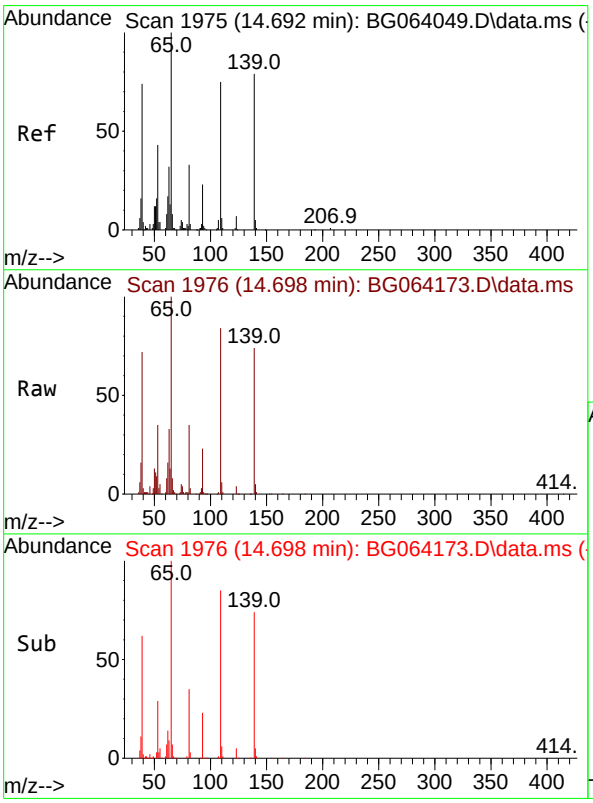
Ion	Ratio	Lower	Upper
168	100		
139	40.4	31.1	46.7
169	13.0	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

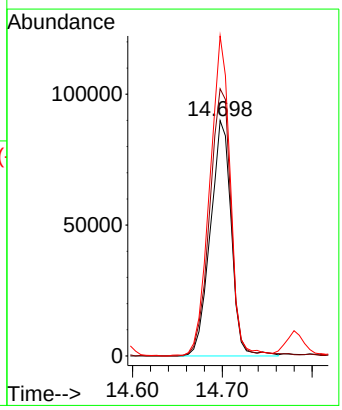
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

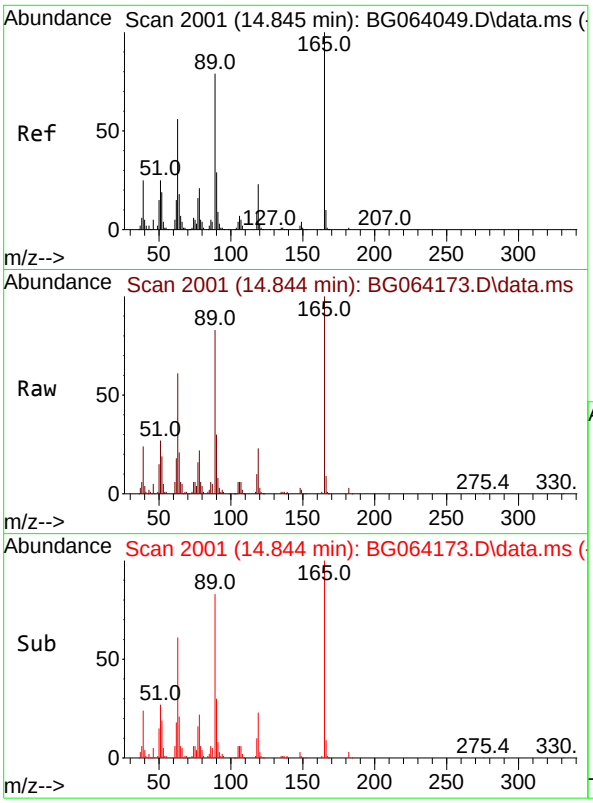


#56
4-Nitrophenol
Concen: 112.568 ng
RT: 14.698 min Scan# 1976
Delta R.T. 0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:139 Resp: 144648

Ion	Ratio	Lower	Upper
139	100		
109	113.5	74.9	114.9
65	135.9	106.8	146.8

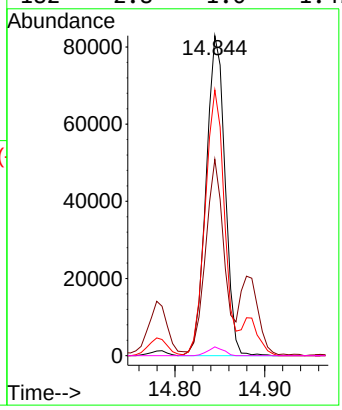




#57
2,4-Dinitrotoluene
Concen: 54.211 ng
RT: 14.844 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:165 Resp: 12143

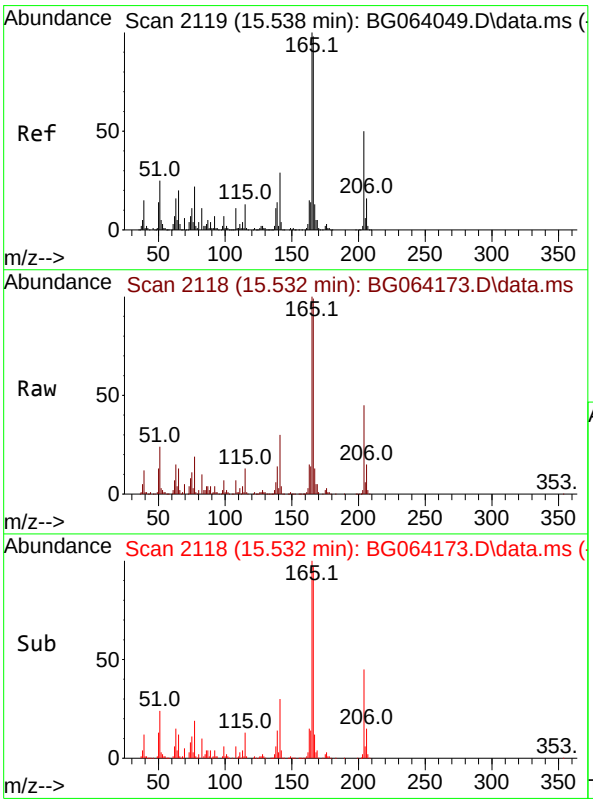
Ion	Ratio	Lower	Upper
165	100		
63	61.4	45.0	67.6
89	83.0	63.1	94.7
182	2.8	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

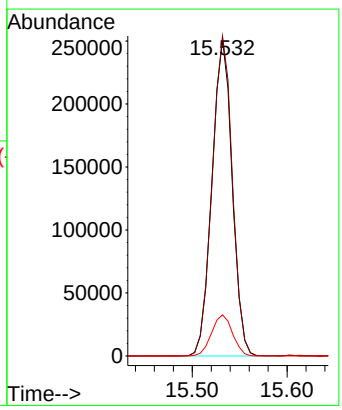
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

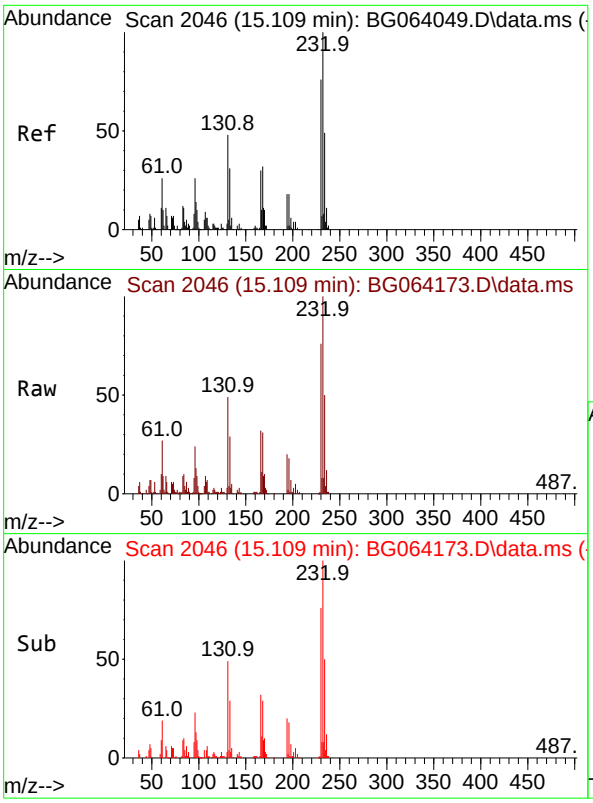


#58
Fluorene
Concen: 46.987 ng
RT: 15.532 min Scan# 2118
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:166 Resp: 372397

Ion	Ratio	Lower	Upper
166	100		
165	101.1	81.8	122.8
167	13.0	10.8	16.2

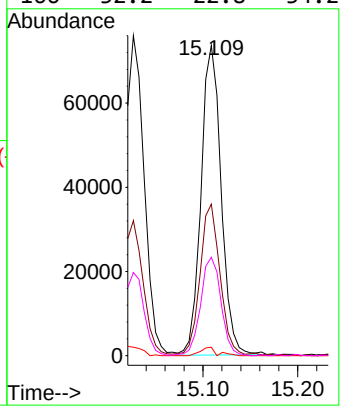




#59
2,3,4,6-Tetrachlorophenol
Concen: 55.484 ng
RT: 15.109 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:232 Resp: 10860

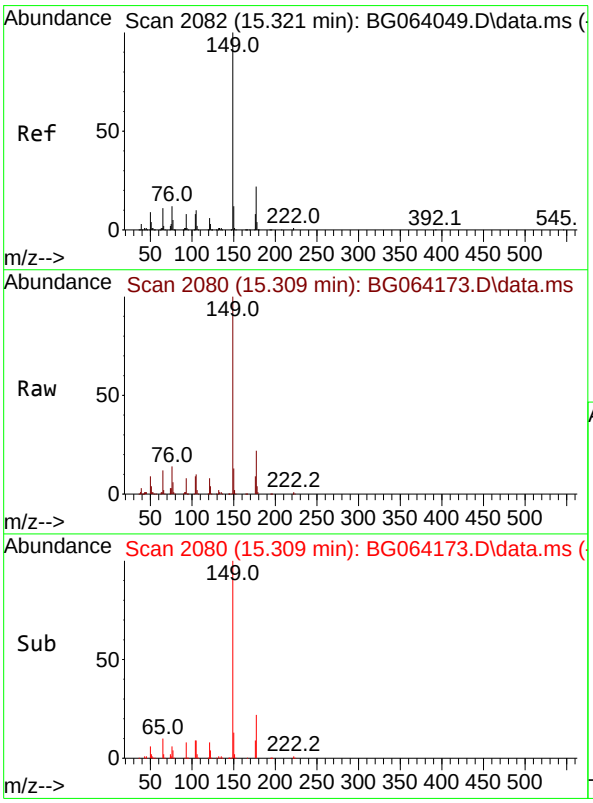
Ion	Ratio	Lower	Upper
232	100		
131	49.2	36.3	54.5
130	2.2	1.9	2.9
166	32.2	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

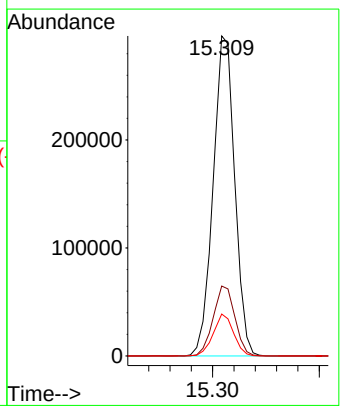
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

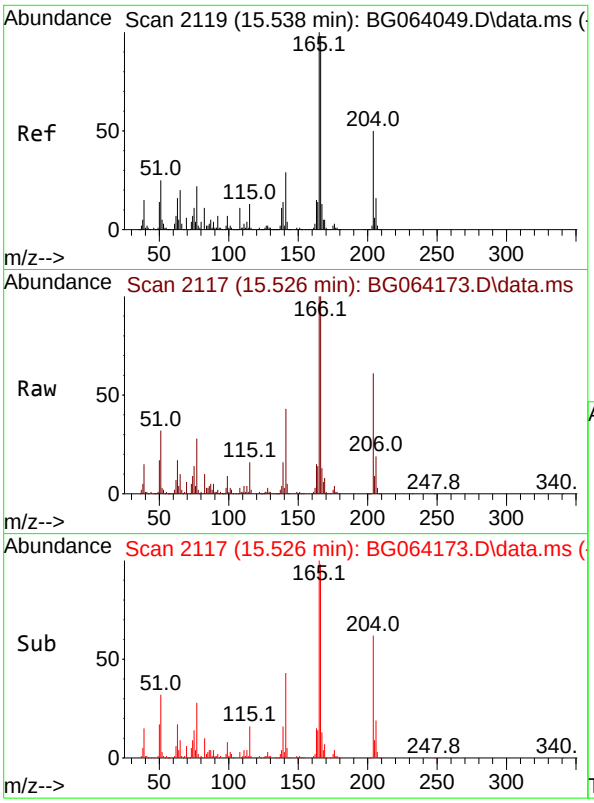


#60
Diethylphthalate
Concen: 48.408 ng
RT: 15.309 min Scan# 2080
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 416605

Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.4	26.2
150	13.1	9.4	14.2

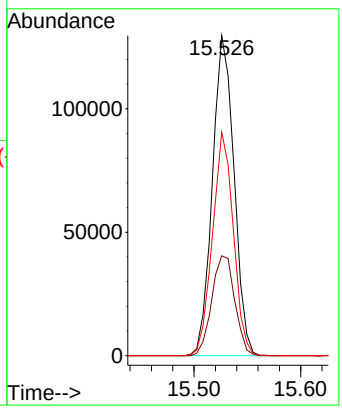




#61
4-Chlorophenyl-phenylether
Concen: 46.321 ng
RT: 15.526 min Scan# 21
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:204 Resp: 18243

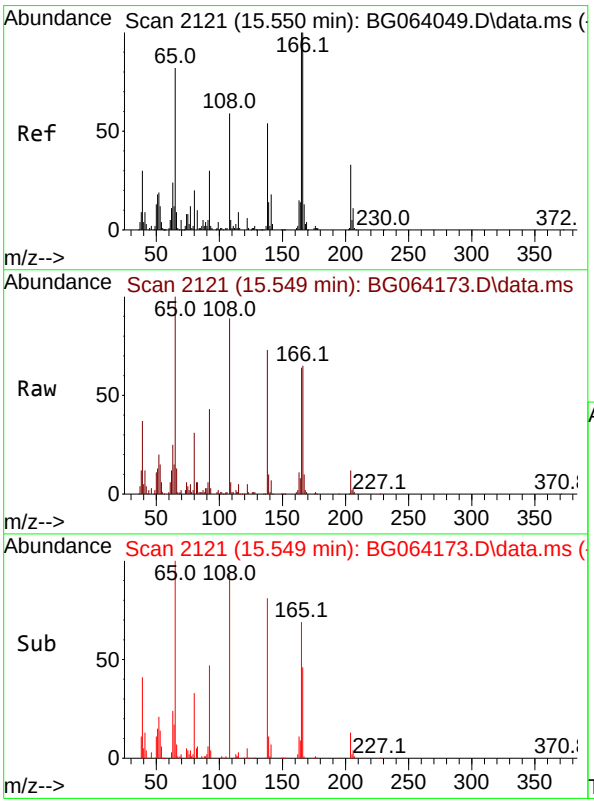
Ion	Ratio	Lower	Upper
204	100		
206	31.2	25.5	38.3
141	69.9	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

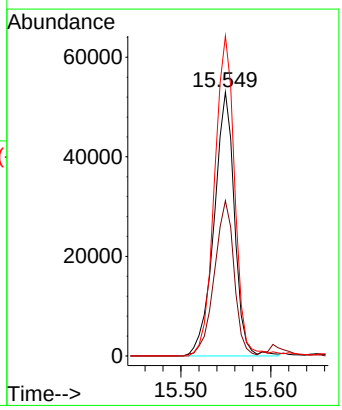
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

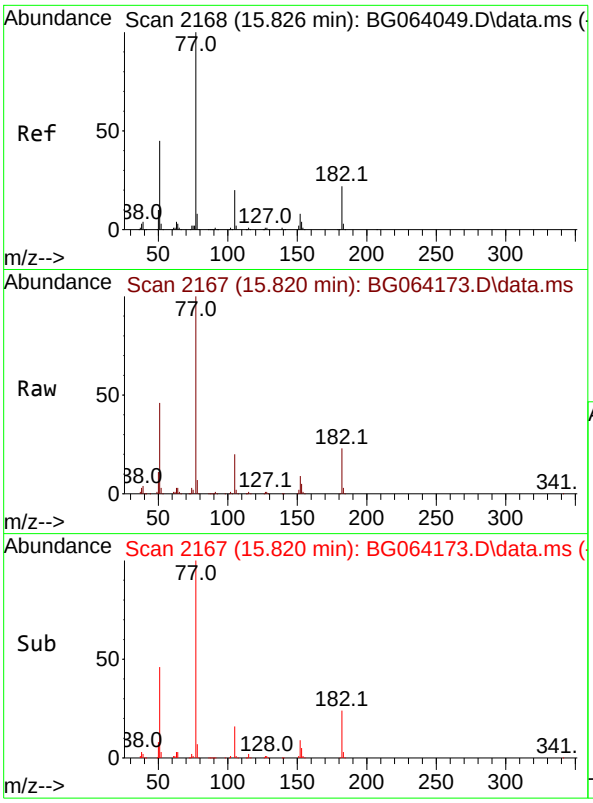


#62
4-Nitroaniline
Concen: 50.522 ng
RT: 15.549 min Scan# 2121
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:138 Resp: 83572

Ion	Ratio	Lower	Upper
138	100		
92	58.9	36.1	76.1
108	121.3	87.9	127.9

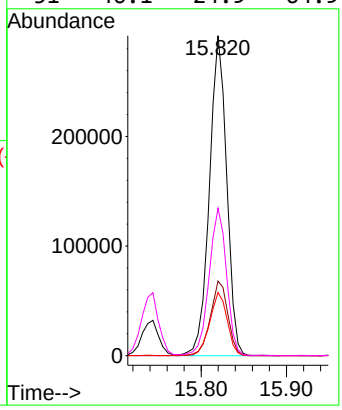




#63
Azobenzene
Concen: 44.742 ng
RT: 15.820 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion: 77 Resp: 41088

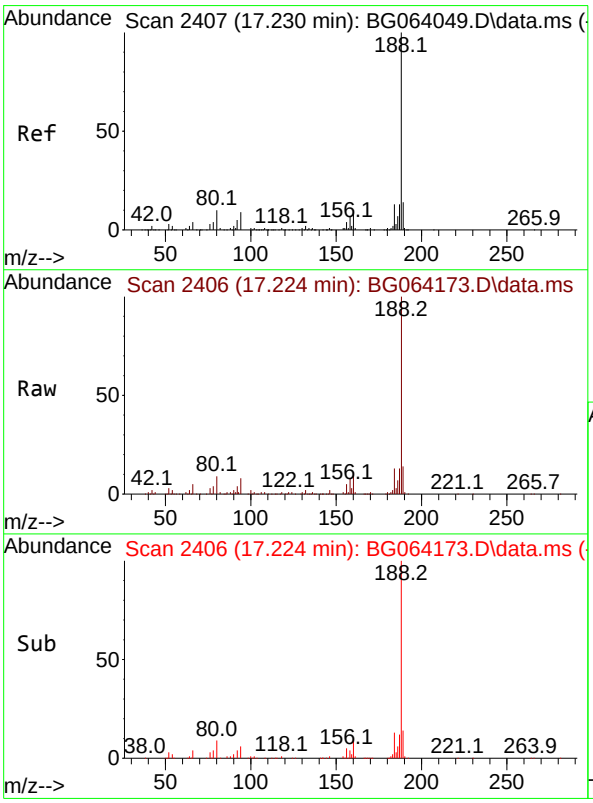
Ion	Ratio	Lower	Upper
77	100		
182	23.3	2.4	42.4
105	19.8	0.0	40.0
51	46.1	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

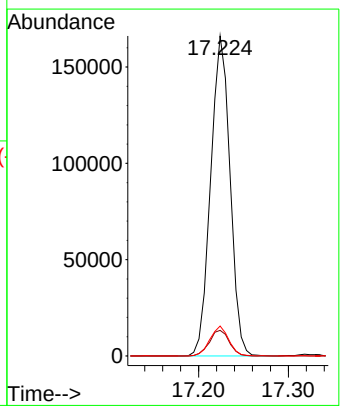
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

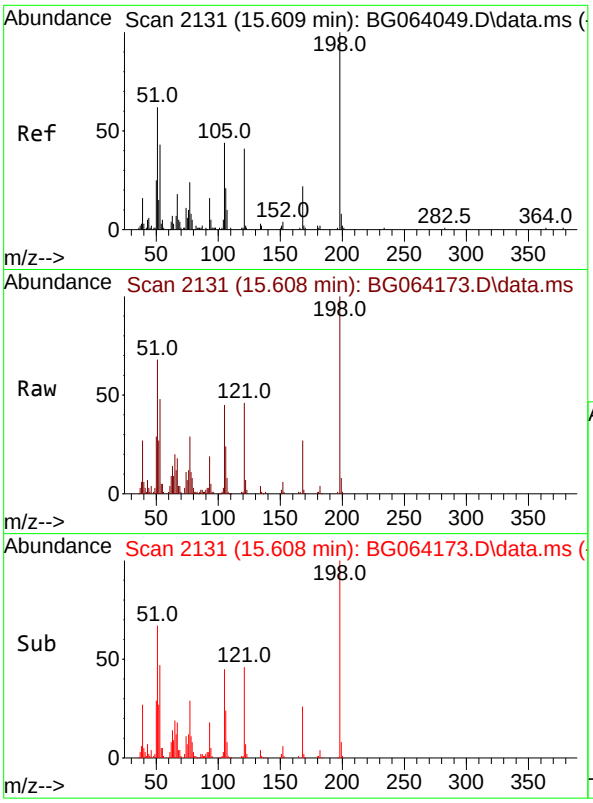


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 2406
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:188 Resp: 248813

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.9	10.3
80	9.3	8.1	12.1

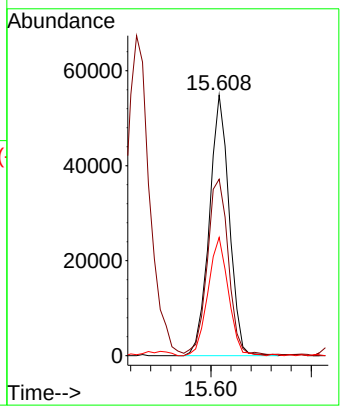




#65
4,6-Dinitro-2-methylphenol
Concen: 66.467 ng
RT: 15.608 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:198 Resp: 7552

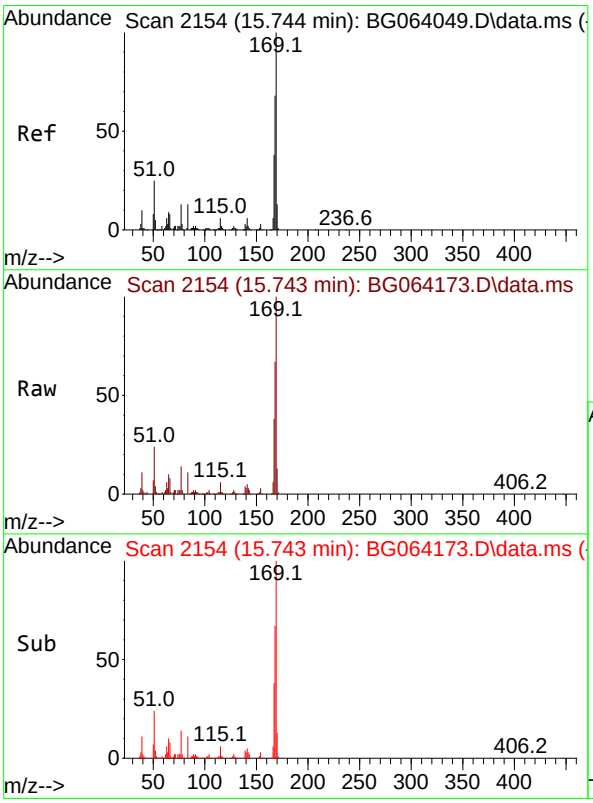
Ion	Ratio	Lower	Upper
198	100		
51	67.7	45.6	85.6
105	45.4	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

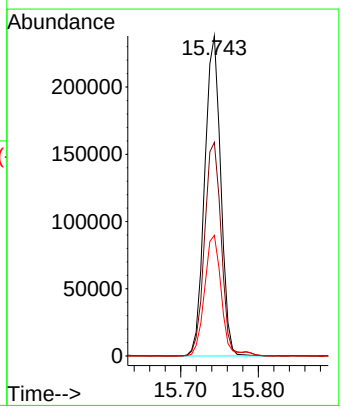
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

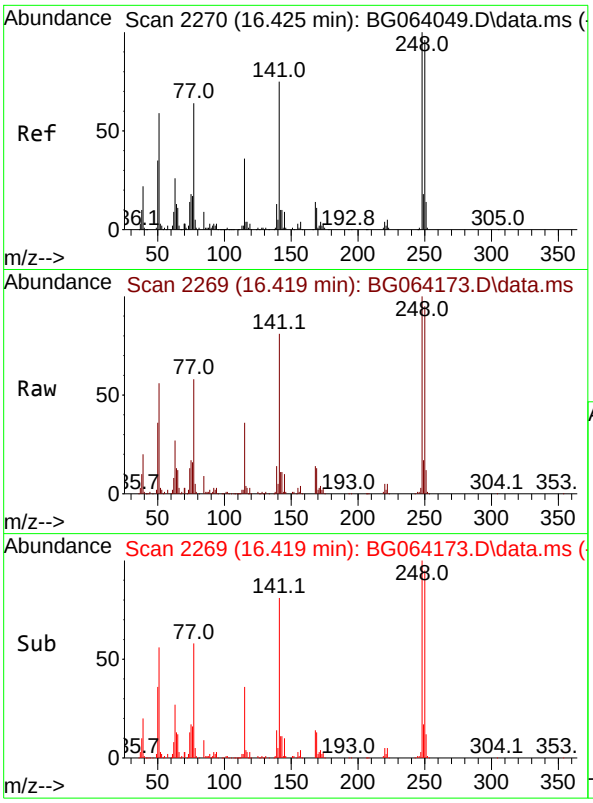


#66
n-Nitrosodiphenylamine
Concen: 48.573 ng
RT: 15.743 min Scan# 2154
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:169 Resp: 342099

Ion	Ratio	Lower	Upper
169	100		
168	66.7	54.1	81.1
167	37.7	30.3	45.5





#67
4-Bromophenyl-phenylether
Concen: 50.786 ng
RT: 16.419 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

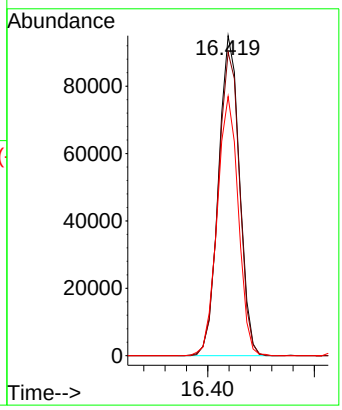
Tgt Ion:248 Resp: 12941

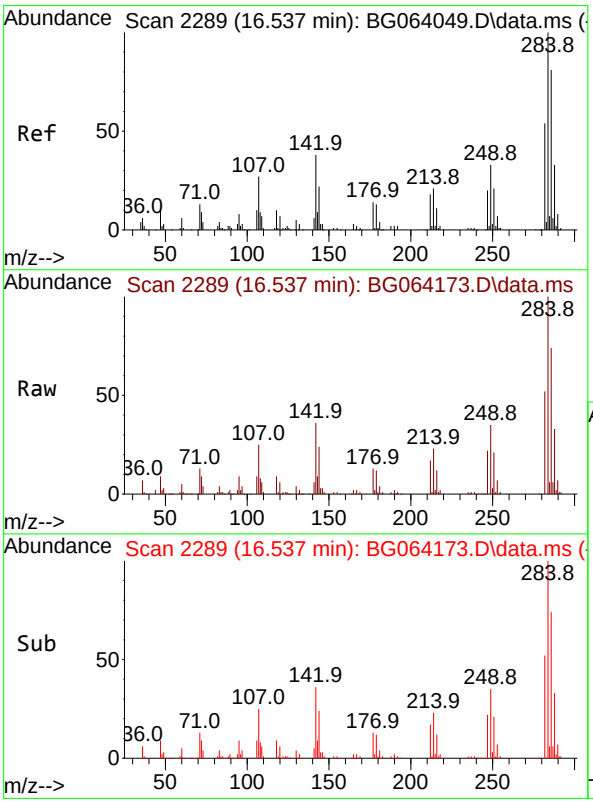
Ion	Ratio	Lower	Upper
248	100		
250	94.8	77.1	115.7
141	81.0	59.8	89.8

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

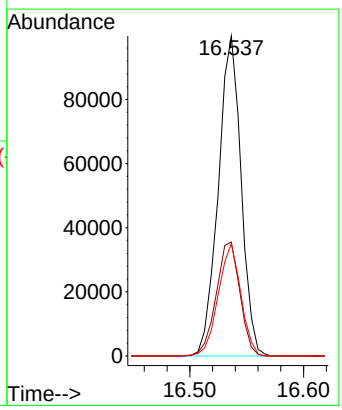


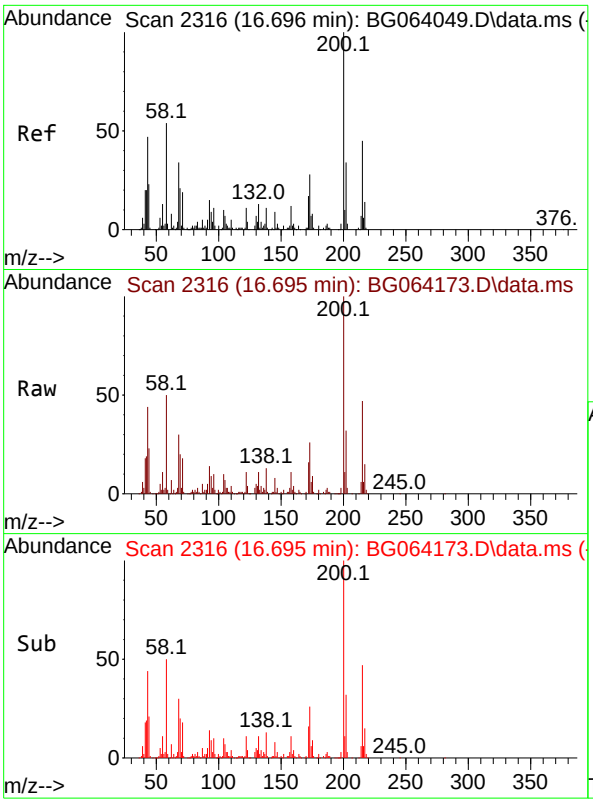


#68
Hexachlorobenzene
Concen: 48.772 ng
RT: 16.537 min Scan# 2289
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:284 Resp: 139145

Ion	Ratio	Lower	Upper
284	100		
142	35.6	30.6	45.8
249	35.1	26.6	39.8





#69
Atrazine
Concen: 67.290 ng
RT: 16.695 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

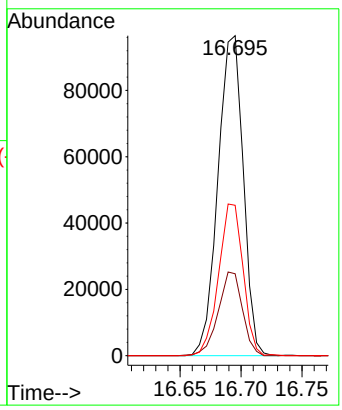
Tgt Ion:200 Resp: 13944

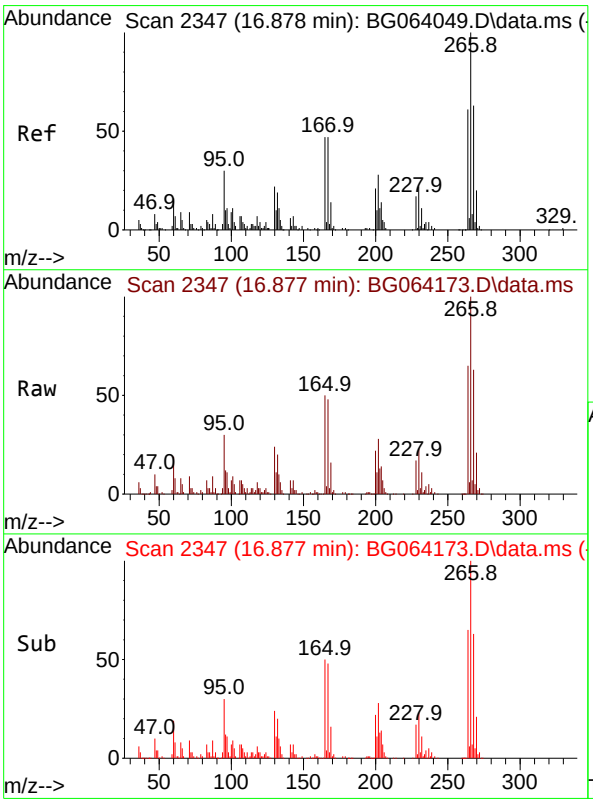
Ion	Ratio	Lower	Upper
200	100		
173	25.6	8.2	48.2
215	47.0	25.5	65.5

Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

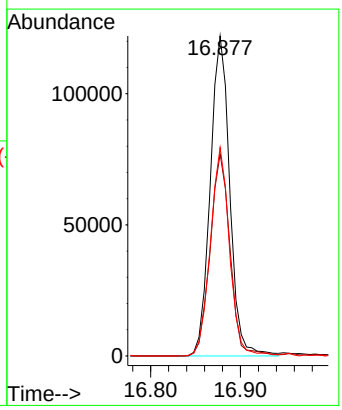


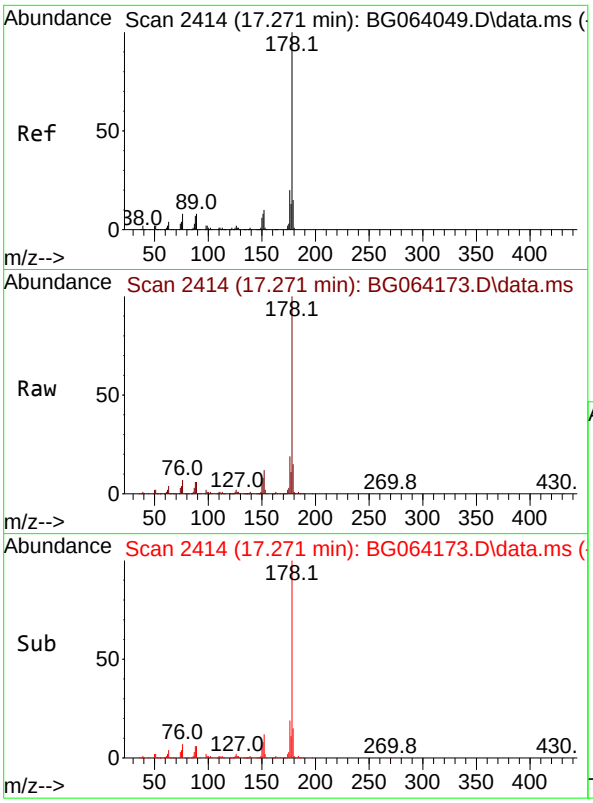


#70
Pentachlorophenol
Concen: 103.779 ng
RT: 16.877 min Scan# 2347
Delta R.T. -0.001 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:266 Resp: 183831

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.2	75.4
264	65.2	48.9	73.3

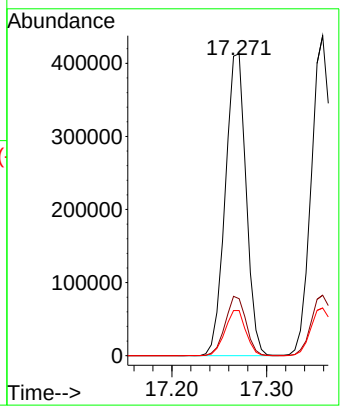




#71
Phenanthrene
Concen: 47.423 ng
RT: 17.271 min Scan# 24
Delta R.T. -0.000 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:178 Resp: 62935

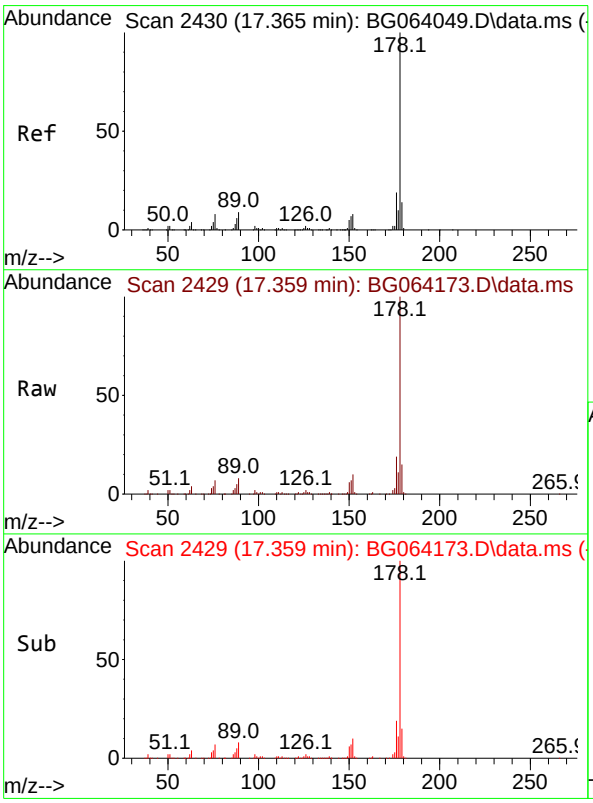
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.0	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

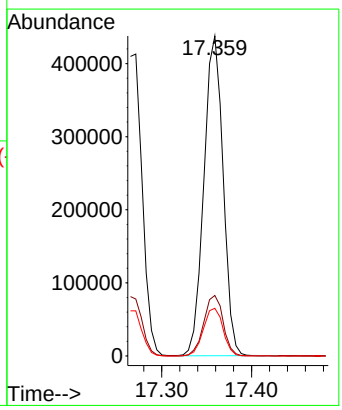
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

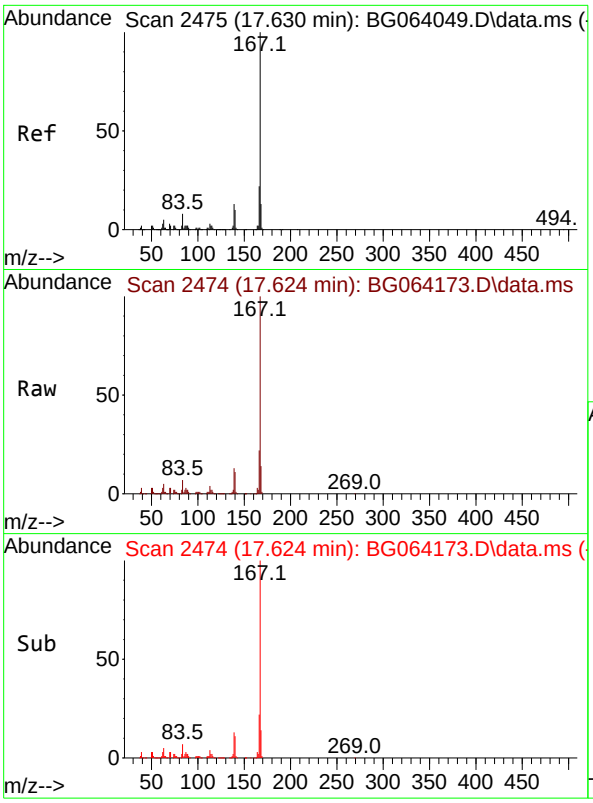


#72
Anthracene
Concen: 49.264 ng
RT: 17.359 min Scan# 2429
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:178 Resp: 650102

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.8	22.2
179	14.9	11.5	17.3

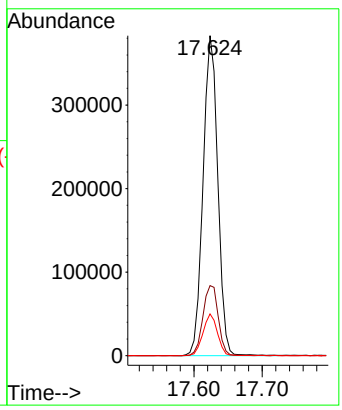




#73
Carbazole
Concen: 46.696 ng
RT: 17.624 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:167 Resp: 57534

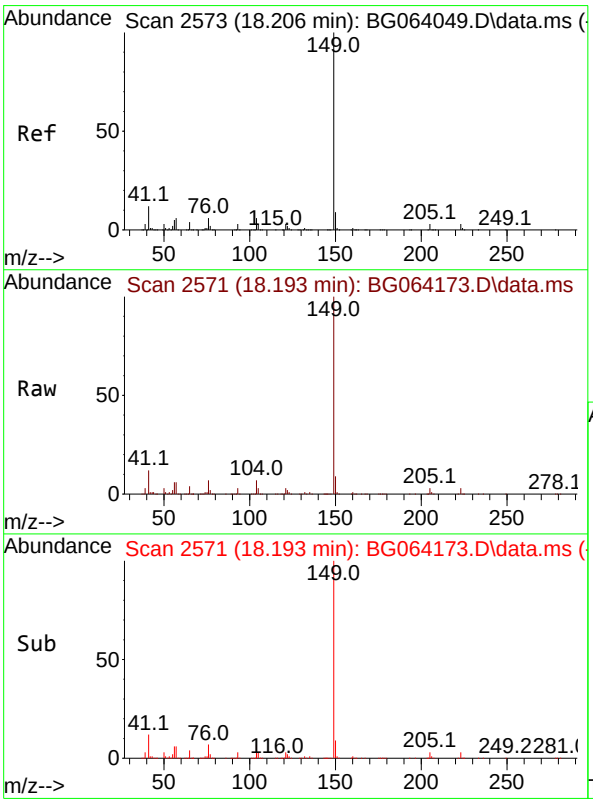
Ion	Ratio	Lower	Upper
167	100		
166	21.9	18.0	27.0
139	13.1	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

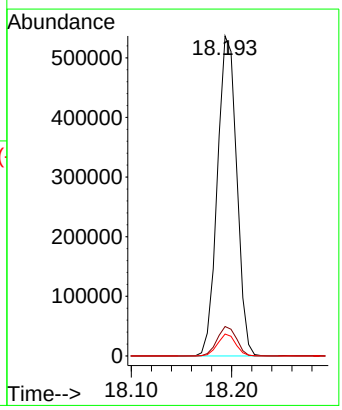
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

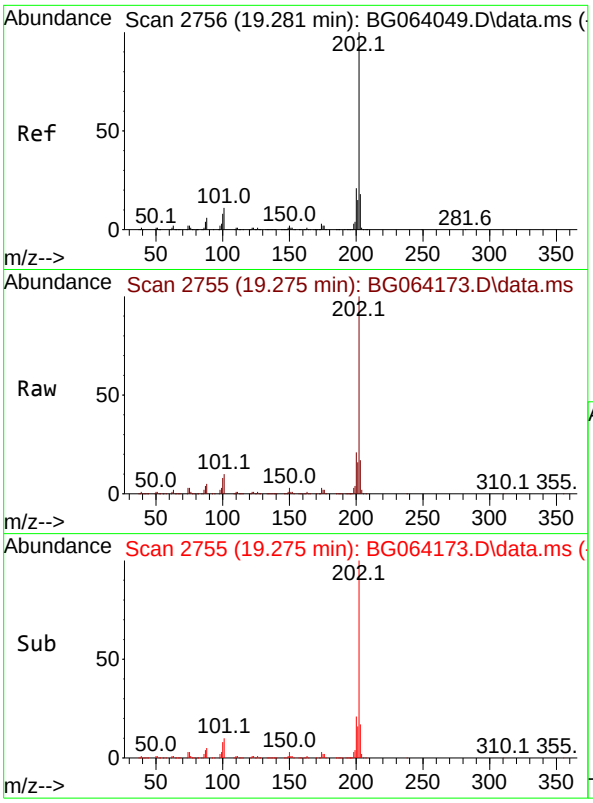


#74
Di-n-butylphthalate
Concen: 49.443 ng
RT: 18.193 min Scan# 2571
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 717070

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.0
104	6.9	5.0	7.6

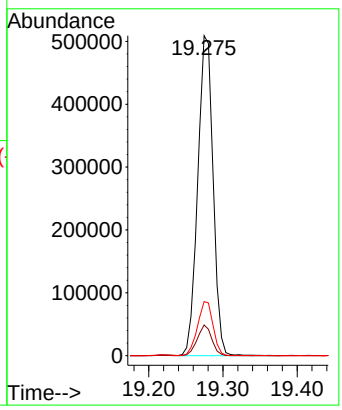




#75
Fluoranthene
Concen: 45.787 ng
RT: 19.275 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:202 Resp: 73255

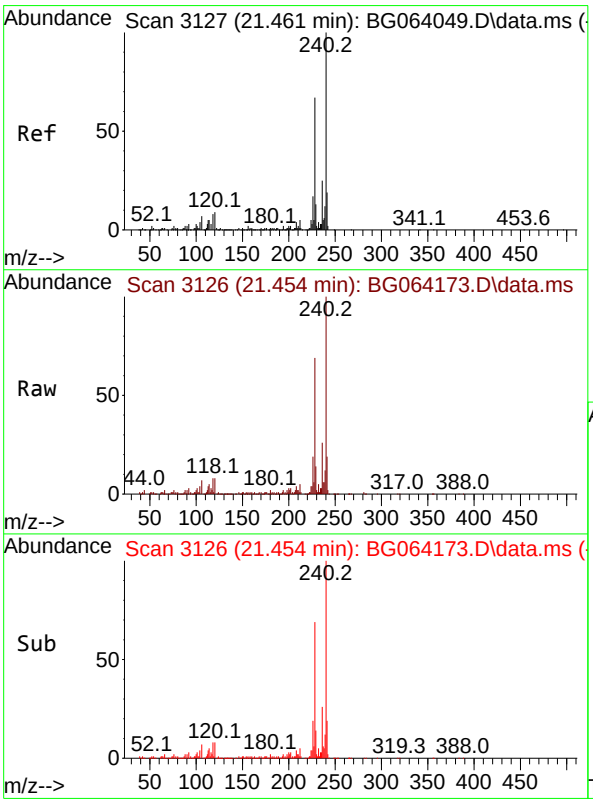
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	30.5
203	16.9	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

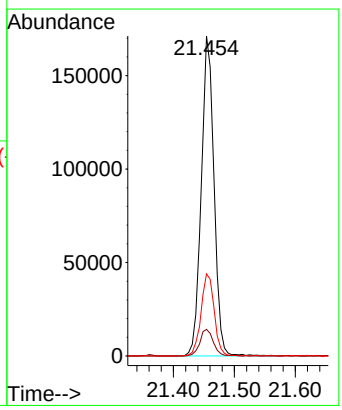
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

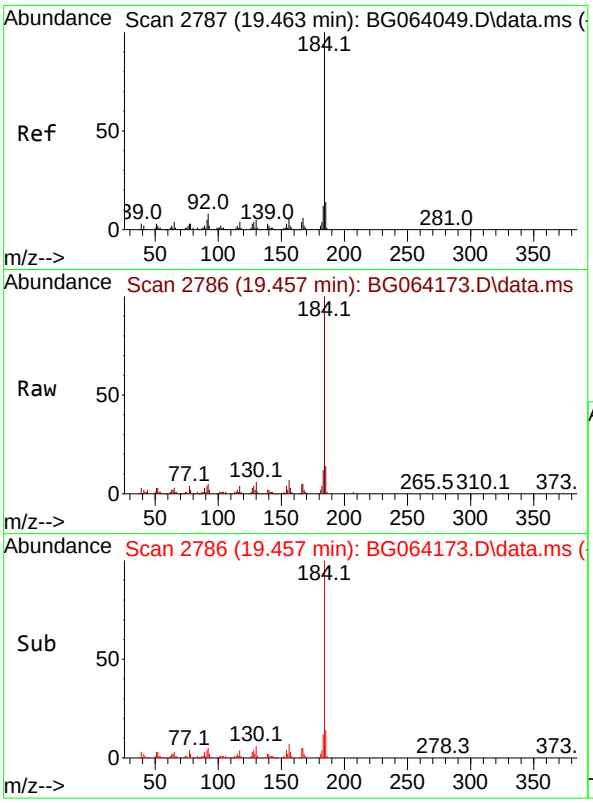


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:240 Resp: 248832

Ion	Ratio	Lower	Upper
240	100		
120	8.3	7.2	10.8
236	25.7	20.2	30.2

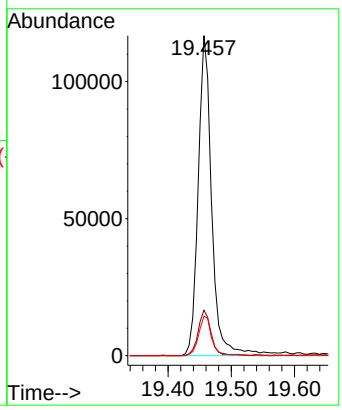




#77
Benzidine
Concen: 50.459 ng
RT: 19.457 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:184 Resp: 17386

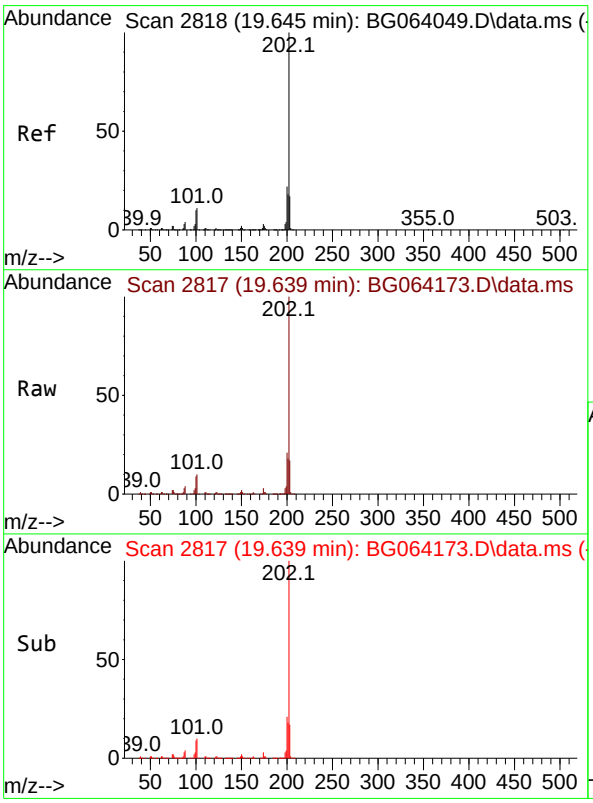
Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.3	16.9
183	12.4	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

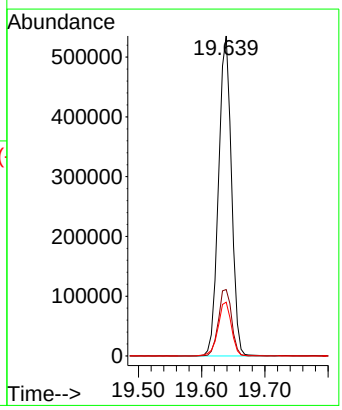
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

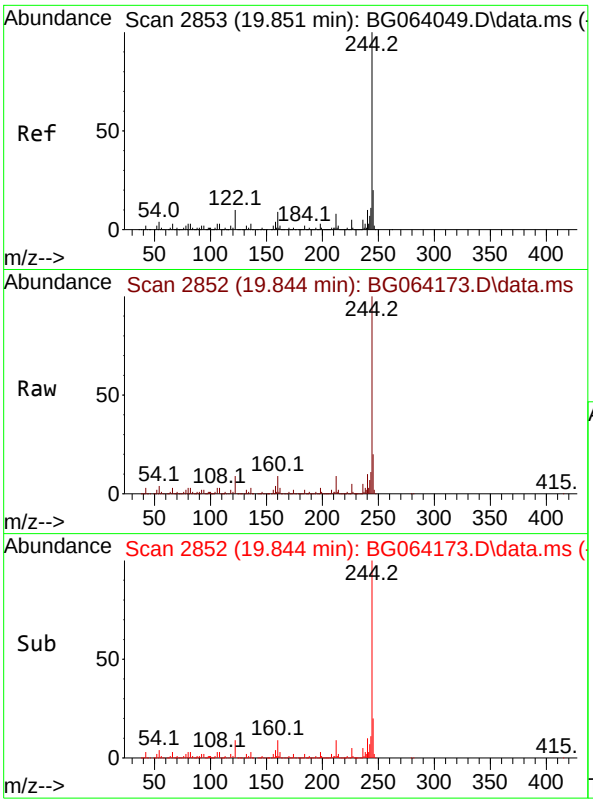


#78
Pyrene
Concen: 47.367 ng
RT: 19.639 min Scan# 2817
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:202 Resp: 759775

Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.3	25.9
203	16.8	13.6	20.4

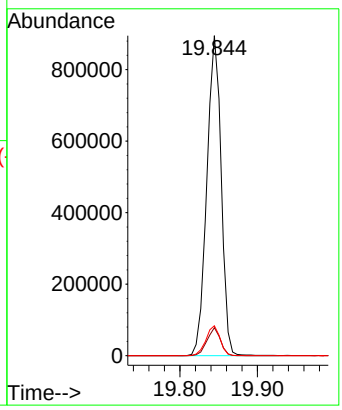




#79
Terphenyl-d14
Concen: 93.259 ng
RT: 19.844 min Scan# 2
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:244 Resp: 114766

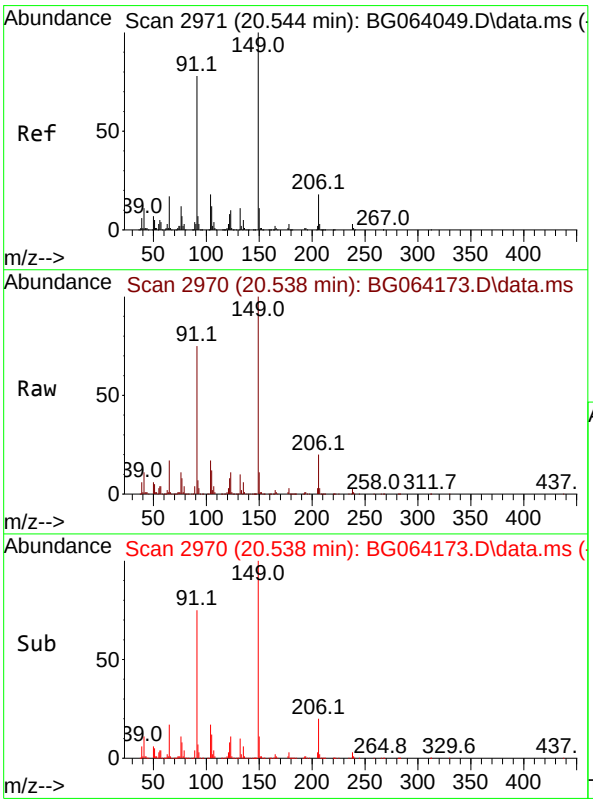
Ion	Ratio	Lower	Upper
244	100		
212	8.8	6.2	9.4
122	9.3	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

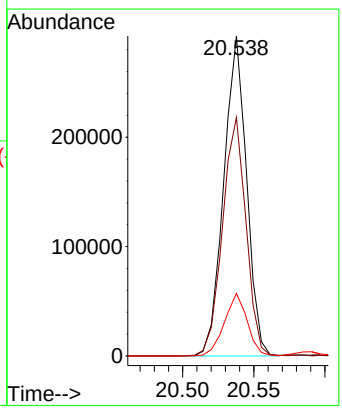
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

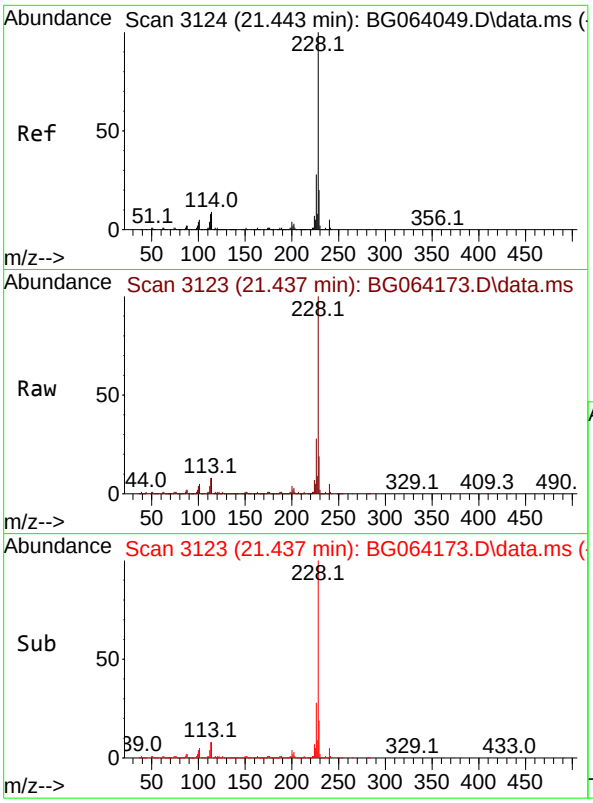


#80
Butylbenzylphthalate
Concen: 53.789 ng
RT: 20.538 min Scan# 2970
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 326610

Ion	Ratio	Lower	Upper
149	100		
91	74.5	62.0	93.0
206	19.5	14.6	21.8

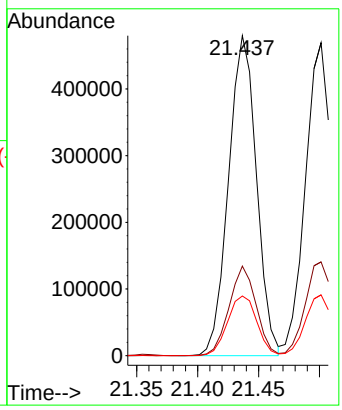




#81
Benzo(a)anthracene
Concen: 48.105 ng
RT: 21.437 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:228 Resp: 76677

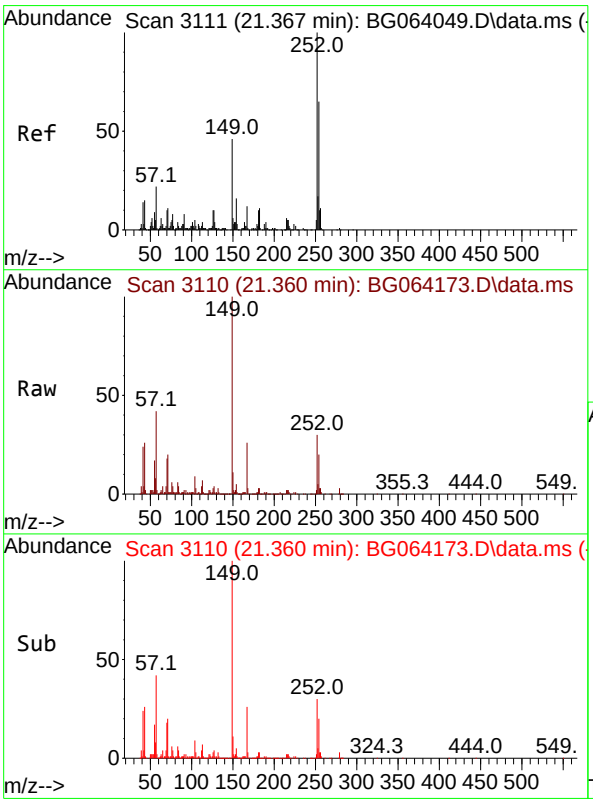
Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.2
229	18.7	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

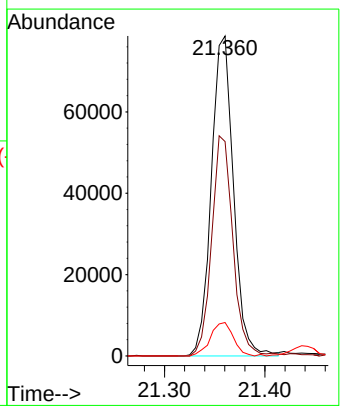
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

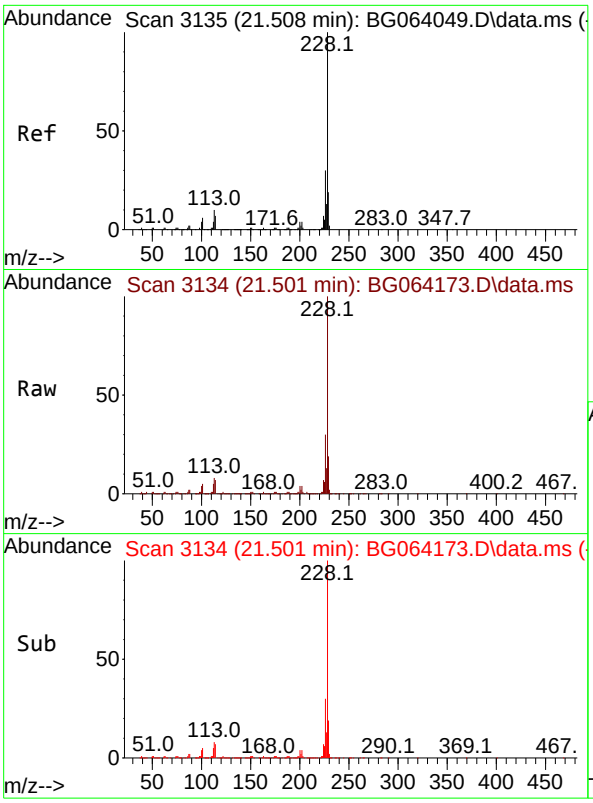


#82
3,3'-Dichlorobenzidine
Concen: 23.386 ng
RT: 21.360 min Scan# 3110
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 120638

Ion	Ratio	Lower	Upper
252	100		
254	67.0	52.1	78.1
126	10.4	7.8	11.8

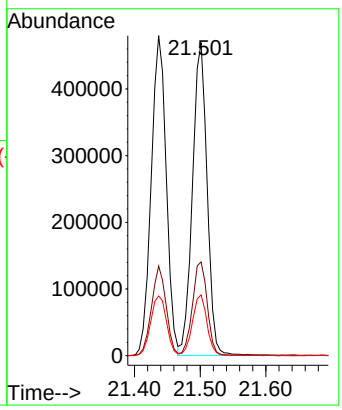




#83
Chrysene
Concen: 45.731 ng
RT: 21.501 min Scan# 3
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:228 Resp: 72701

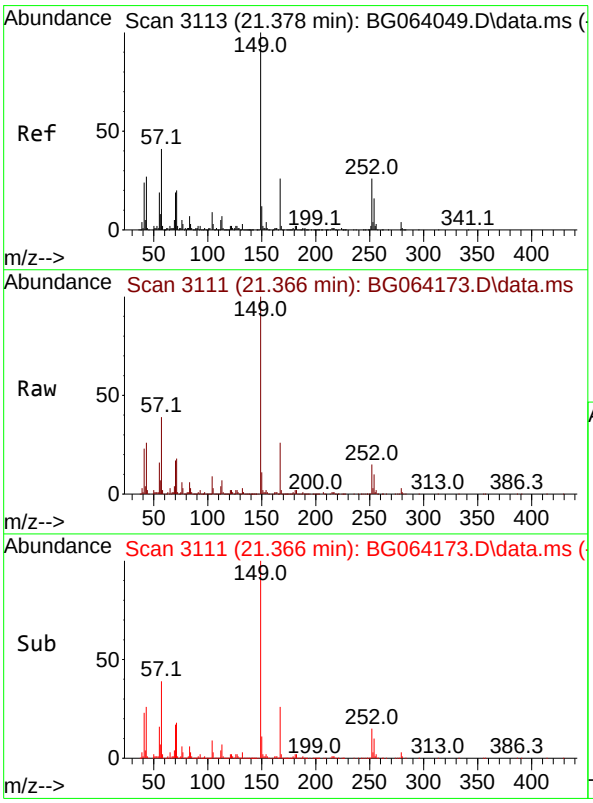
Ion	Ratio	Lower	Upper
228	100		
226	30.0	23.9	35.9
229	19.4	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

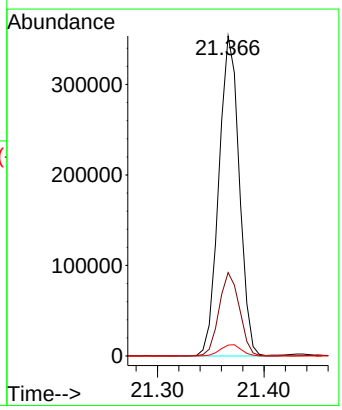
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

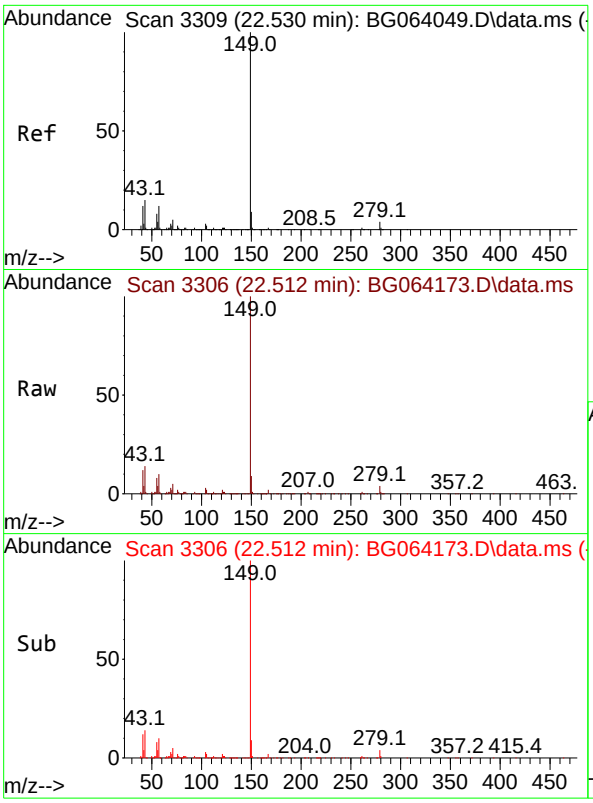


#84
Bis(2-ethylhexyl)phthalate
Concen: 54.493 ng
RT: 21.366 min Scan# 3111
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 469749

Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.6
279	3.4	2.8	4.2

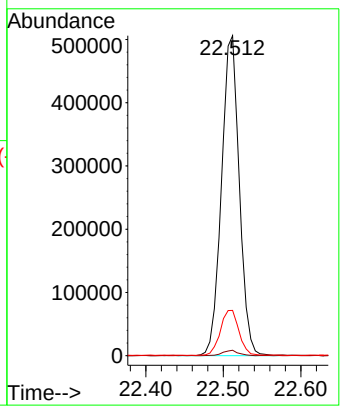




#85
Di-n-octyl phthalate
Concen: 54.390 ng
RT: 22.512 min Scan# 3
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:149 Resp: 80871

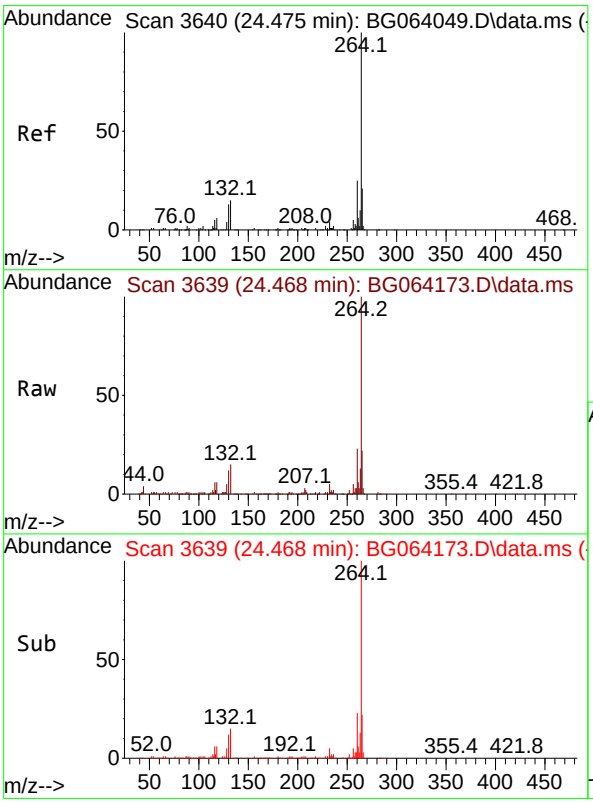
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	14.7	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

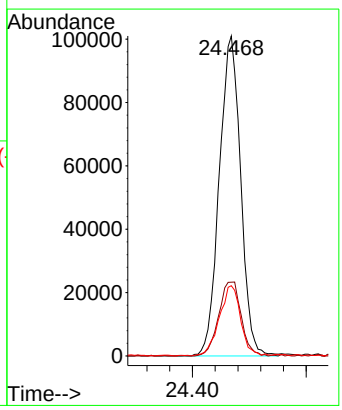
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

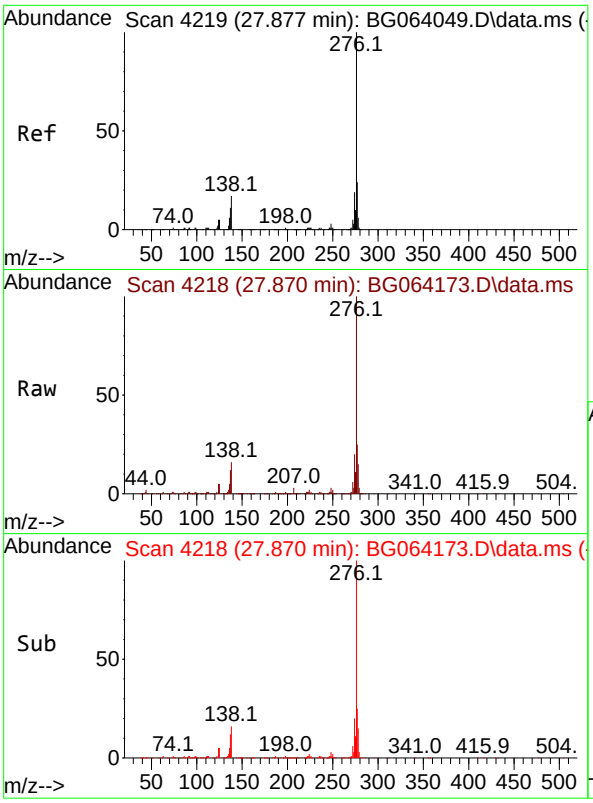


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.468 min Scan# 3639
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:264 Resp: 264036

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.6	29.4
265	22.0	16.6	25.0

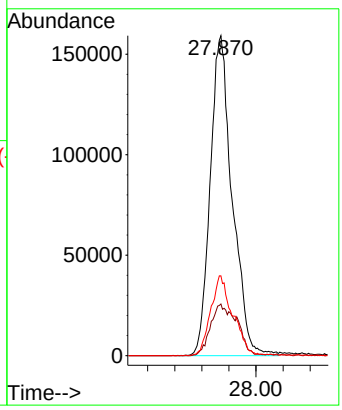




#87
Indeno(1,2,3-cd)pyrene
Concen: 50.846 ng
RT: 27.870 min Scan# 4
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:276 Resp: 89825

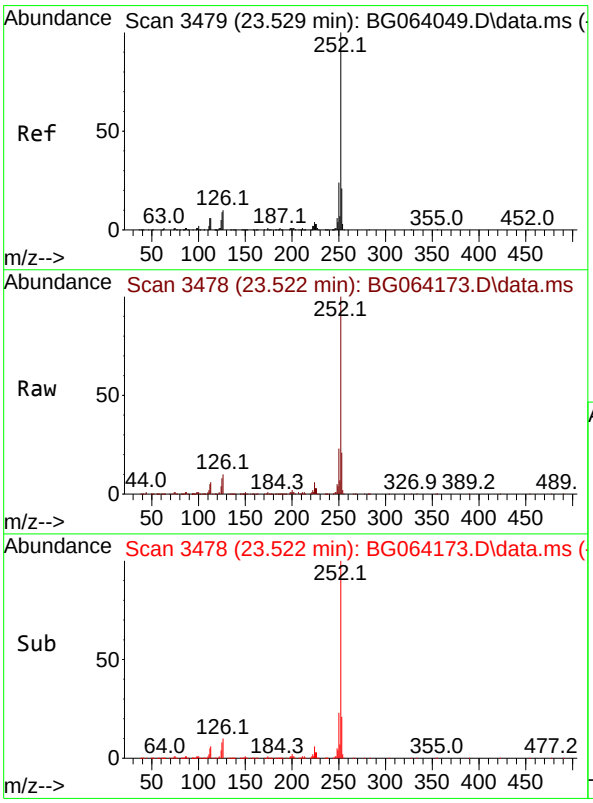
Ion	Ratio	Lower	Upper
276	100		
138	19.5	12.1	18.1
277	25.2	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

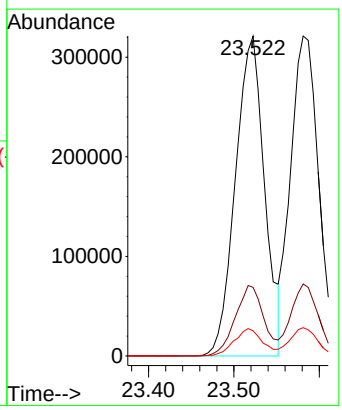
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

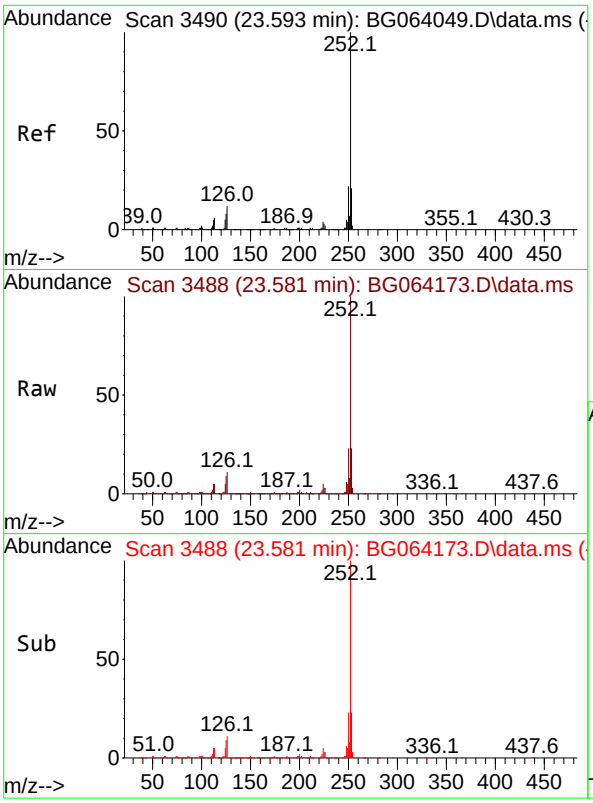


#88
Benzo(b)fluoranthene
Concen: 47.717 ng
RT: 23.522 min Scan# 3478
Delta R.T. -0.006 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 761654

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.0	25.4
125	7.9	7.4	11.2

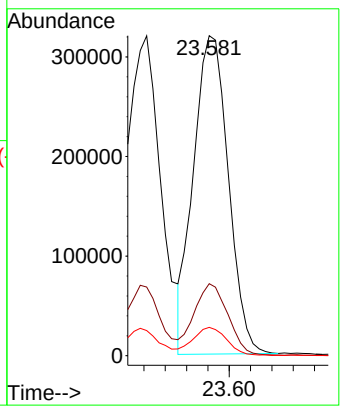




#89
Benzo(k)fluoranthene
Concen: 45.321 ng
RT: 23.581 min Scan# 34
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 72572

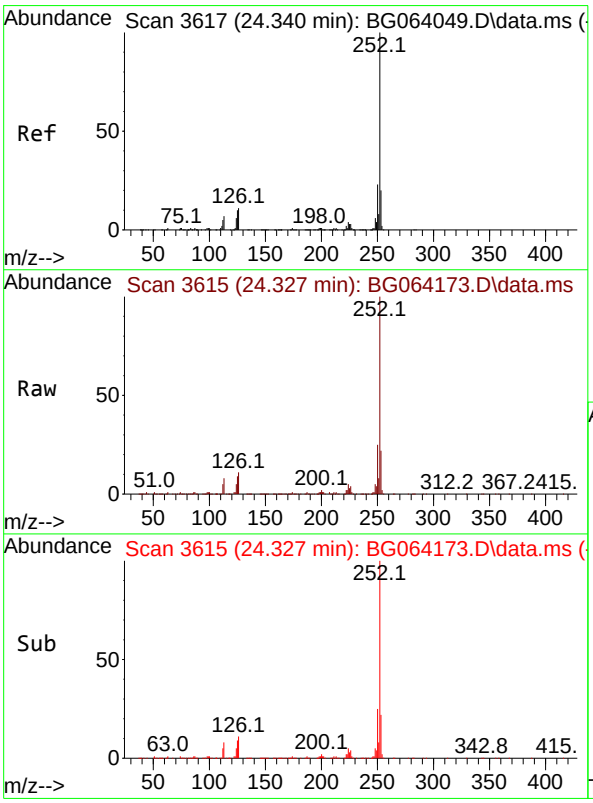
Ion	Ratio	Lower	Upper
252	100		
253	22.5	16.8	25.2
125	8.9	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

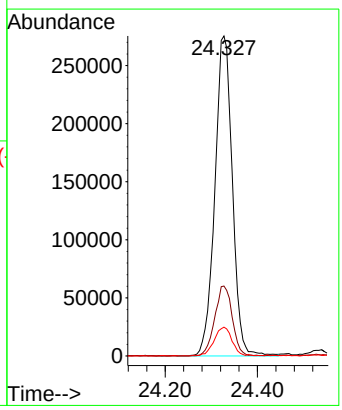
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025

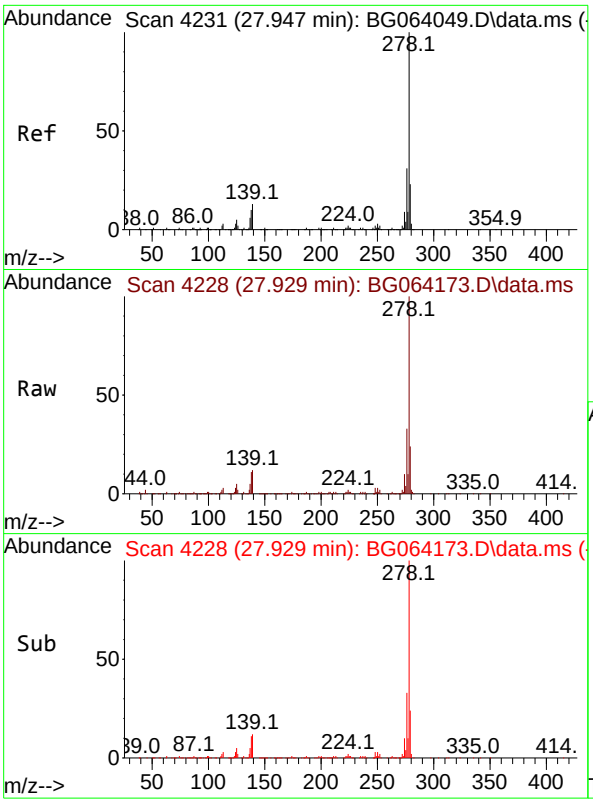


#90
Benzo(a)pyrene
Concen: 50.952 ng
RT: 24.327 min Scan# 3615
Delta R.T. -0.012 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:252 Resp: 724310

Ion	Ratio	Lower	Upper
252	100		
253	21.9	16.2	24.2
125	9.0	7.8	11.6

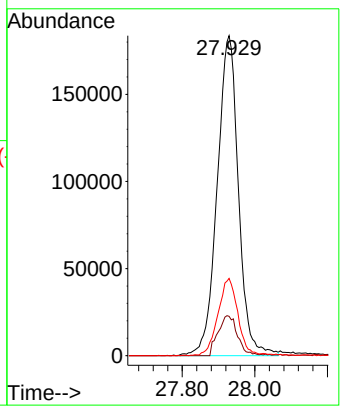




#91
Dibenzo(a,h)anthracene
Concen: 51.021 ng
RT: 27.929 min Scan# 4
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:278 Resp: 74723

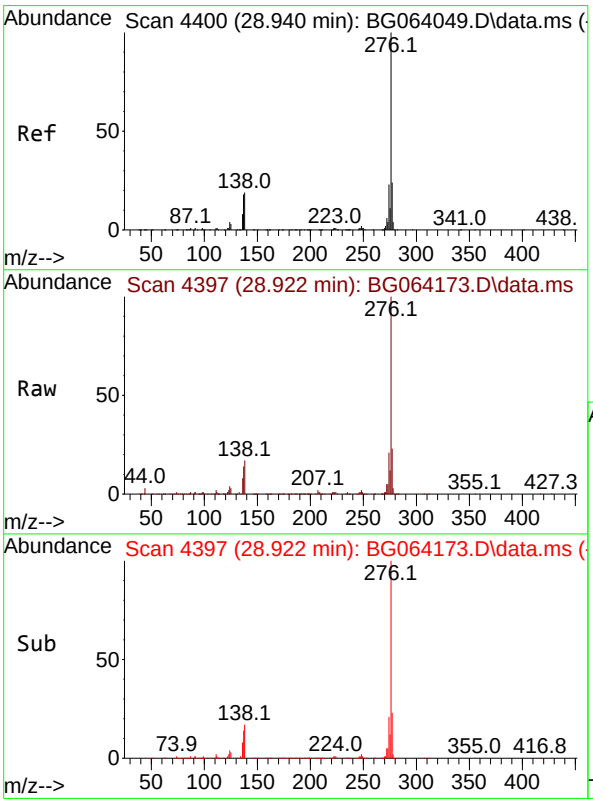
Ion	Ratio	Lower	Upper
278	100		
139	12.3	10.2	15.2
279	24.1	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
PB167393BS

Manual Integrations
APPROVED

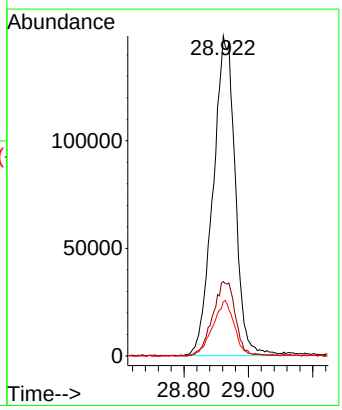
Reviewed By :Rahul Chavli 04/04/2025
Supervised By :Jagrut Upadhyay 04/04/2025



#92
Benzo(g,h,i)perylene
Concen: 47.120 ng
RT: 28.922 min Scan# 4397
Delta R.T. -0.018 min
Lab File: BG064173.D
Acq: 3 Apr 2025 19:17

Tgt Ion:276 Resp: 708548

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.5	29.3
138	16.9	15.4	23.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-05MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064135.D	1	03/31/25 11:00	04/01/25 15:03	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	46.4		3.90	10.0	ug/L
108-95-2	Phenol	12.9		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	46.5		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	38.6		0.58	5.00	ug/L
95-48-7	2-Methylphenol	32.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	44.3		1.30	5.00	ug/L
98-86-2	Acetophenone	50.9		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	29.0		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.7		1.40	2.50	ug/L
67-72-1	Hexachloroethane	38.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	55.6		0.76	5.00	ug/L
78-59-1	Isophorone	54.7		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	59.0		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	65.4		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	51.1		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	52.3		0.52	5.00	ug/L
91-20-3	Naphthalene	45.7		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	21.1		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.2		0.54	5.00	ug/L
105-60-2	Caprolactam	9.40	J	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	47.8		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.4		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	230	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	61.6		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	61.5		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	53.0		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	53.4		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	59.1		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	54.8		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-05MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064135.D	1	03/31/25 11:00	04/01/25 15:03	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	56.3		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	55.4		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	27.7		1.10	5.00	ug/L
83-32-9	Acenaphthene	53.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	140	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	36.4		2.40	10.0	ug/L
132-64-9	Dibenzofuran	50.6		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	59.5		1.20	5.00	ug/L
84-66-2	Diethylphthalate	52.9		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	51.1		0.68	5.00	ug/L
86-73-7	Fluorene	53.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	53.7		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	70.3		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	55.9		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	57.4		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	55.4		0.52	5.00	ug/L
1912-24-9	Atrazine	79.3		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	130	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	56.7		0.50	5.00	ug/L
120-12-7	Anthracene	57.6		0.61	5.00	ug/L
86-74-8	Carbazole	58.7		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	60.0		1.20	5.00	ug/L
206-44-0	Fluoranthene	58.8		0.82	5.00	ug/L
129-00-0	Pyrene	53.3		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	61.4		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.0		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	57.2		0.45	5.00	ug/L
218-01-9	Chrysene	54.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	65.3		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	64.8		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	56.0		0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-05MS	SDG No.:	Q1664
Lab Sample ID:	Q1664-05MS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064135.D	1	03/31/25 11:00	04/01/25 15:03	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	55.4		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	60.0		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	59.7		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	60.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	56.7		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.9		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	15.1		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	60.9		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	59.4		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	33.5		10 - 134	22%	SPK: 150
4165-60-0	Nitrobenzene-d5	114		49 - 133	114%	SPK: 100
321-60-8	2-Fluorobiphenyl	105		52 - 132	105%	SPK: 100
118-79-6	2,4,6-Tribromophenol	184		44 - 137	123%	SPK: 150
1718-51-0	Terphenyl-d14	102		48 - 125	102%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35800	7.861			
1146-65-2	Naphthalene-d8	150000	10.646			
15067-26-2	Acenaphthene-d10	102000	14.483			
1517-22-2	Phenanthrene-d10	229000	17.227			
1719-03-5	Chrysene-d12	260000	21.457			
1520-96-3	Perylene-d12	281000	24.465			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064135.D
Acq On : 1 Apr 2025 15:03
Operator : RC/JU
Sample : Q1664-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 01 15:44:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.861	152	35803	20.000	ng		0.00
21) Naphthalene-d8	10.646	136	150441	20.000	ng		0.00
39) Acenaphthene-d10	14.483	164	102278	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	228948	20.000	ng		0.00
76) Chrysene-d12	21.457	240	259874	20.000	ng		0.00
86) Perylene-d12	24.465	264	281028	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.452	112	136162	59.383	ng		0.00
7) Phenol-d6	7.021	99	104425	33.477	ng		0.00
23) Nitrobenzene-d5	9.013	82	311190	114.310	ng		0.00
42) 2,4,6-Tribromophenol	15.975	330	209437	184.219	ng		0.00
45) 2-Fluorobiphenyl	13.108	172	704640	104.574	ng		0.00
79) Terphenyl-d14	19.847	244	1310703	101.982	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.372	88	15647	15.057	ng		93
3) Pyridine	3.760	79	42568	16.844	ng		98
4) n-Nitrosodimethylamine	3.672	42	33665	18.644	ng		99
6) Aniline	7.186	93	68184	22.276	ng		98
8) 2-Chlorophenol	7.426	128	95098	38.616	ng		99
9) Benzaldehyde	6.998	77	84178m	46.401	ng		
10) Phenol	7.050	94	41238	12.912	ng		98
11) bis(2-Chloroethyl)ether	7.285	93	116365	46.476	ng		99
12) 1,3-Dichlorobenzene	7.750	146	96360	35.632	ng		94
13) 1,4-Dichlorobenzene	7.896	146	99652	35.951	ng		99
14) 1,2-Dichlorobenzene	8.214	146	99999	37.413	ng		98
15) Benzyl Alcohol	8.090	79	79663	33.049	ng		94
16) 2,2'-oxybis(1-Chloropr...	8.384	45	249131m	44.251	ng		
17) 2-Methylphenol	8.302	107	69790	32.926	ng		98
18) Hexachloroethane	8.942	117	36819	37.965	ng		92
19) n-Nitroso-di-n-propyla...	8.666	70	108785	49.693	ng		97
20) 3+4-Methylphenols	8.625	107	84543	28.972	ng		96
22) Acetophenone	8.672	105	209755	50.852	ng		97
24) Nitrobenzene	9.054	77	156461	55.613	ng		96
25) Isophorone	9.577	82	297922	54.676	ng	#	94
26) 2-Nitrophenol	9.759	139	60363	58.957	ng		95
27) 2,4-Dimethylphenol	9.824	122	106888	65.436	ng		91
28) bis(2-Chloroethoxy)met...	10.059	93	168759	51.085	ng	#	98
29) 2,4-Dichlorophenol	10.294	162	107792	52.260	ng		99
30) 1,2,4-Trichlorobenzene	10.511	180	112022	44.990	ng		94
31) Naphthalene	10.699	128	370640	45.689	ng		99
32) Benzoic acid	9.912	122	20796m	20.044	ng		
33) 4-Chloroaniline	10.805	127	62684	21.142	ng		98
34) Hexachlorobutadiene	10.993	225	68809	42.161	ng		97
35) Caprolactam	11.569	113	7437m	9.409	ng		
36) 4-Chloro-3-methylphenol	11.927	107	129320	47.831	ng		99
37) 2-Methylnaphthalene	12.309	142	259968	45.394	ng		98
38) 1-Methylnaphthalene	12.526	142	276960	49.363	ng		94
40) 1,2,4,5-Tetrachloroben...	12.679	216	148692	50.923	ng		98
41) Hexachlorocyclopentadiene	12.661	237	187016	227.561	ng		97
43) 2,4,6-Trichlorophenol	12.914	196	106053	61.625	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064135.D
Acq On : 1 Apr 2025 15:03
Operator : RC/JU
Sample : Q1664-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 01 15:44:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.985	196	117523	61.460	ng		97
46) 1,1'-Biphenyl	13.320	154	409560	53.002	ng		99
47) 2-Chloronaphthalene	13.361	162	301152	53.437	ng		98
48) 2-Nitroaniline	13.560	65	115806	59.139	ng		96
49) Acenaphthylene	14.207	152	501655	56.277	ng		99
50) Dimethylphthalate	13.948	163	413521	54.772	ng		98
51) 2,6-Dinitrotoluene	14.060	165	85641	55.360	ng		97
52) Acenaphthene	14.547	154	317199	53.023	ng		97
53) 3-Nitroaniline	14.383	138	40418	27.699	ng		98
54) 2,4-Dinitrophenol	14.589	184	90826	136.095	ng	#	75
55) Dibenzofuran	14.882	168	490801	50.643	ng		98
56) 4-Nitrophenol	14.688	139	44577	36.426	ng	#	86
57) 2,4-Dinitrotoluene	14.841	165	127681	59.472	ng	#	96
58) Fluorene	15.535	166	405019	53.658	ng		95
59) 2,3,4,6-Tetrachlorophenol	15.106	232	113519	60.895	ng	#	95
60) Diethylphthalate	15.311	149	433728	52.918	ng		98
61) 4-Chlorophenyl-phenyle...	15.529	204	191821	51.139	ng		92
62) 4-Nitroaniline	15.546	138	84625	53.717	ng		87
63) Azobenzene	15.822	77	449563	51.402	ng		98
65) 4,6-Dinitro-2-methylph...	15.605	198	74083	70.318	ng		98
66) n-Nitrosodiphenylamine	15.740	169	362322	55.908	ng		99
67) 4-Bromophenyl-phenylether	16.422	248	134537	57.375	ng		97
68) Hexachlorobenzene	16.533	284	145556	55.446	ng		98
69) Atrazine	16.692	200	151192	79.291	ng		93
70) Pentachlorophenol	16.874	266	215982	132.509	ng		98
71) Phenanthrene	17.268	178	692975	56.747	ng		99
72) Anthracene	17.356	178	699296	57.590	ng		98
73) Carbazole	17.626	167	665337	58.686	ng		100
74) Di-n-butylphthalate	18.196	149	801167	60.035	ng		100
75) Fluoranthene	19.277	202	865791	58.810	ng		96
77) Benzidine	19.459	184	92570	25.725	ng		98
78) Pyrene	19.636	202	893089	53.312	ng		99
80) Butylbenzylphthalate	20.540	149	393024	61.422	ng		98
81) Benzo(a)anthracene	21.439	228	952154	57.198	ng		98
82) 3,3'-Dichlorobenzidine	21.357	252	178034	33.046	ng		99
83) Chrysene	21.504	228	909095	54.755	ng		99
84) Bis(2-ethylhexyl)phtha...	21.369	149	587683	65.277	ng		99
85) Di-n-octyl phthalate	22.515	149	1006791	64.835	ng		99
87) Indeno(1,2,3-cd)pyrene	27.867	276	1122971	59.723	ng		99
88) Benzo(b)fluoranthene	23.525	252	951807	56.024	ng		99
89) Benzo(k)fluoranthene	23.590	252	944410	55.411	ng		100
90) Benzo(a)pyrene	24.330	252	908180	60.023	ng		96
91) Dibenzo(a,h)anthracene	27.932	278	934889	59.974	ng		98
92) Benzo(g,h,i)perylene	28.931	276	907435	56.698	ng		97

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

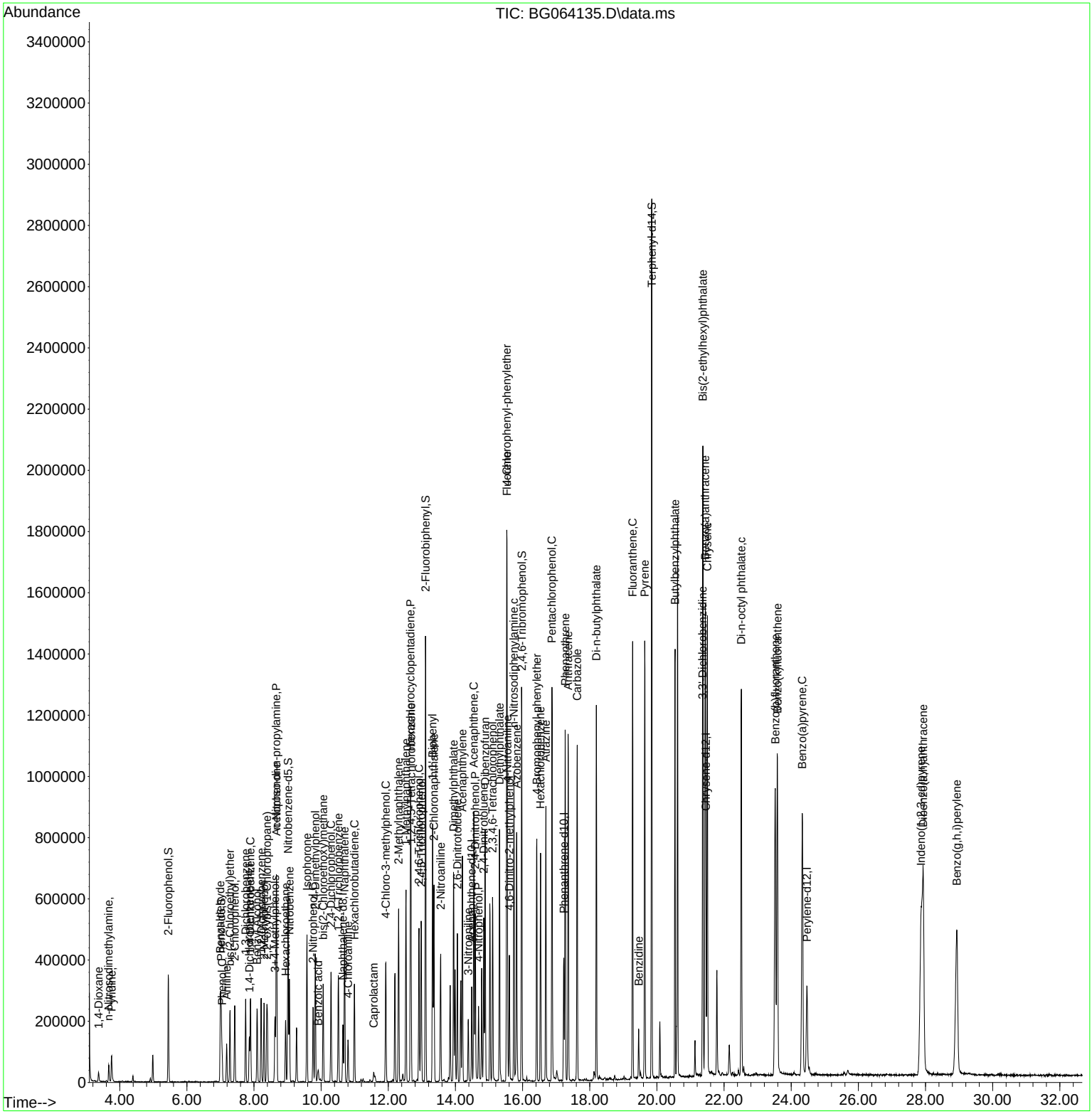
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064135.D
Acq On : 1 Apr 2025 15:03
Operator : RC/JU
Sample : Q1664-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

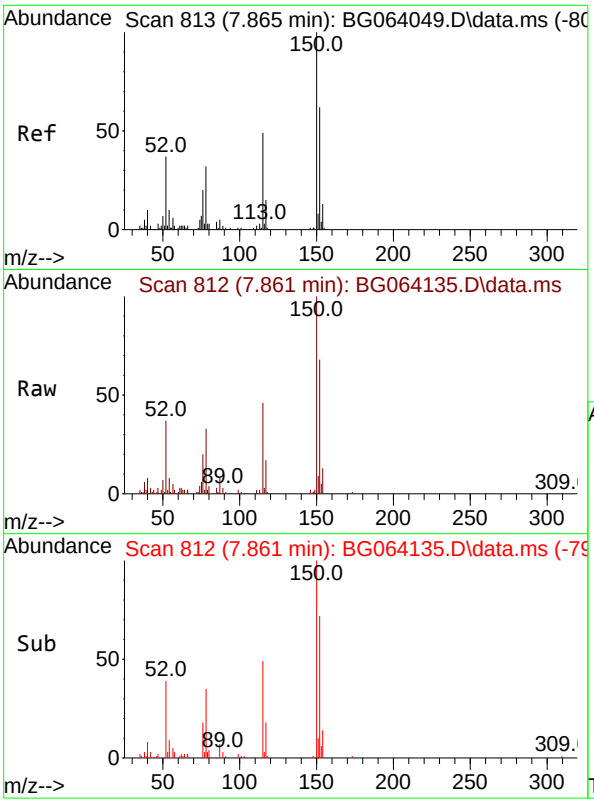
Quant Time: Apr 01 15:44:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

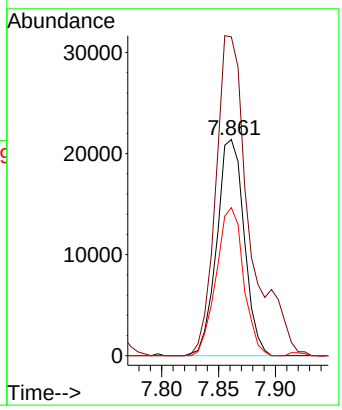




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:152 Resp: 3580

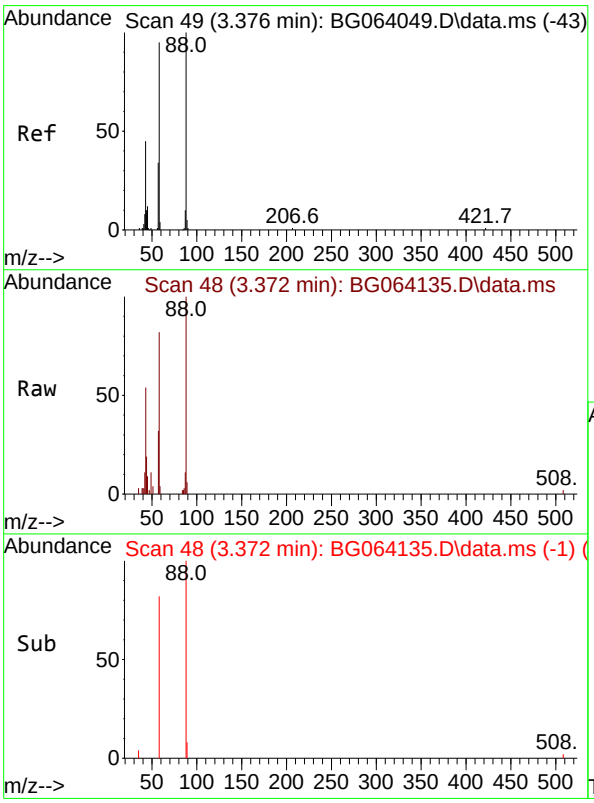
Ion	Ratio	Lower	Upper
152	100		
150	147.5	129.2	193.8
115	68.5	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

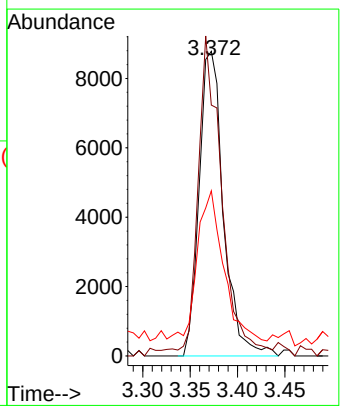
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

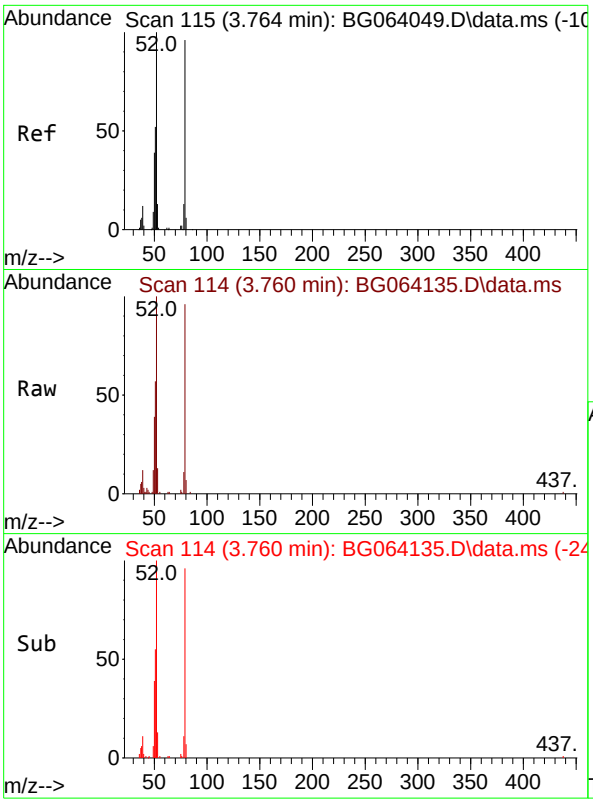


#2
1,4-Dioxane
Concen: 15.057 ng
RT: 3.372 min Scan# 48
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 88 Resp: 15647

Ion	Ratio	Lower	Upper
88	100		
58	97.4	74.6	111.8
43	52.6	35.5	53.3

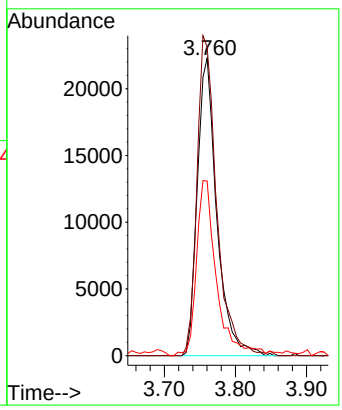




#3
Pyridine
Concen: 16.844 ng
RT: 3.760 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 79 Resp: 4256

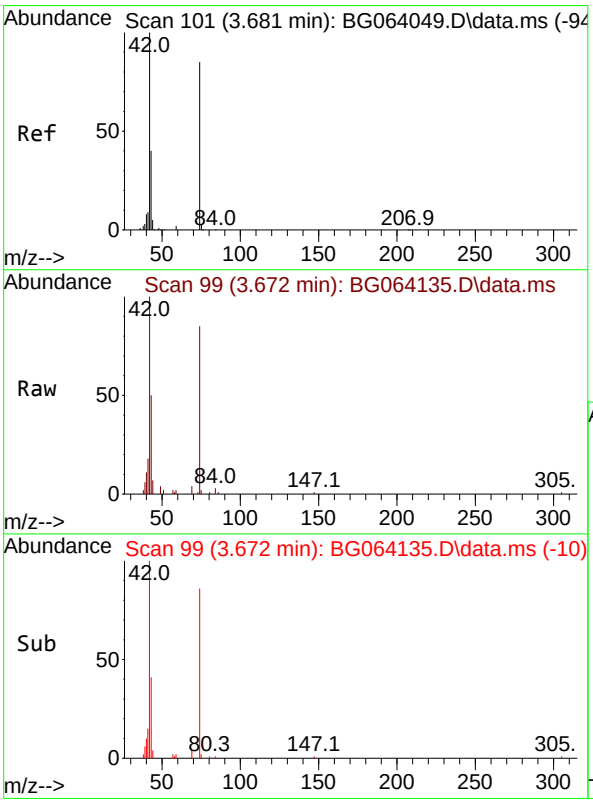
Ion	Ratio	Lower	Upper
79	100		
52	103.7	83.0	124.6
51	58.7	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

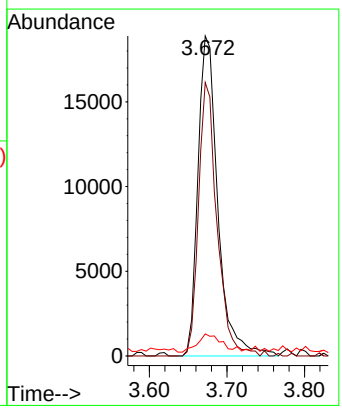
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

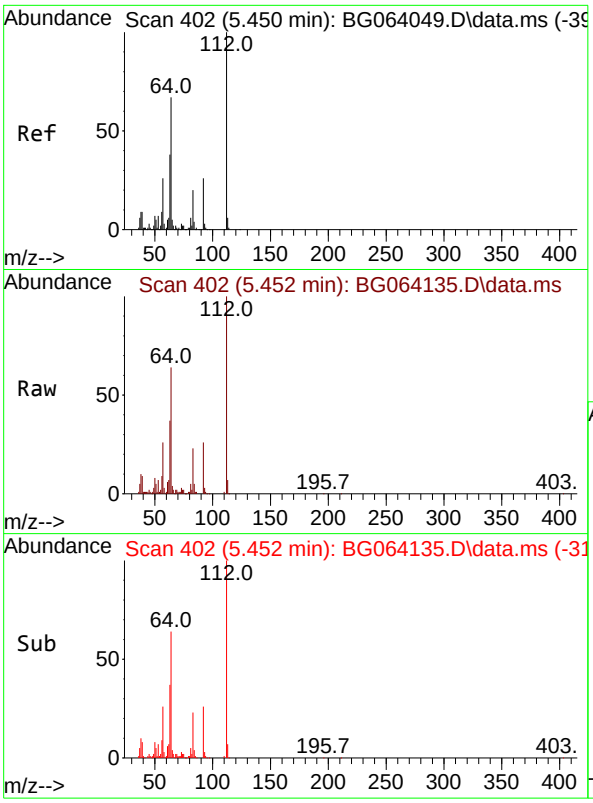


#4
n-Nitrosodimethylamine
Concen: 18.644 ng
RT: 3.672 min Scan# 99
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 42 Resp: 33665

Ion	Ratio	Lower	Upper
42	100		
74	85.5	68.0	102.0
44	6.9	4.9	7.3

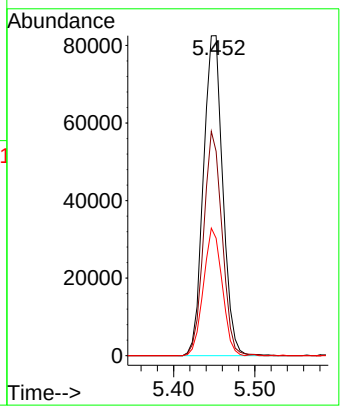




#5
2-Fluorophenol
Concen: 59.383 ng
RT: 5.452 min Scan# 4
Delta R.T. 0.002 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:112 Resp: 13616

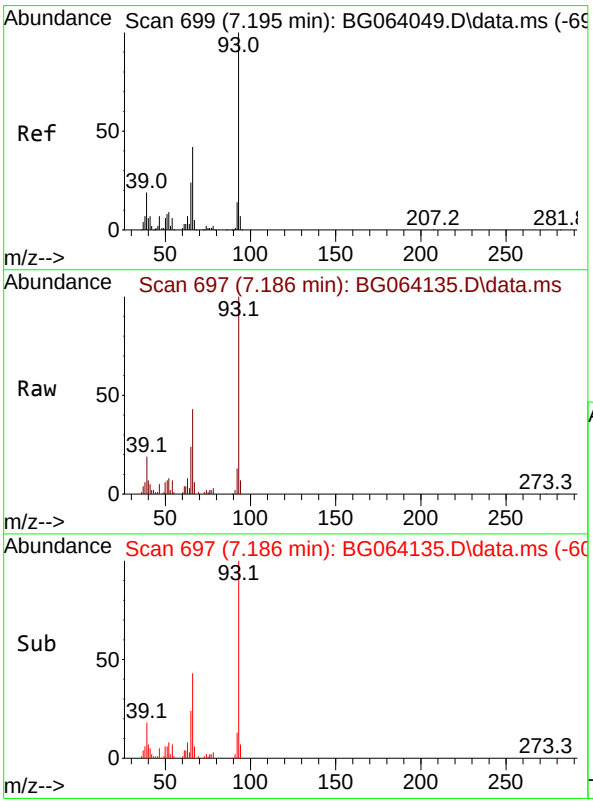
Ion	Ratio	Lower	Upper
112	100		
64	63.8	53.7	80.5
63	36.7	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

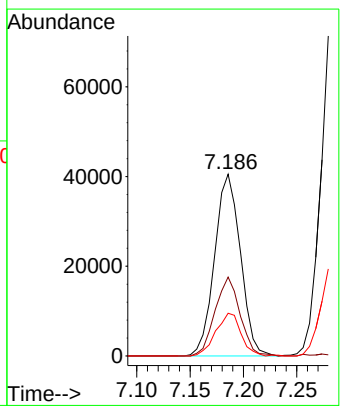
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

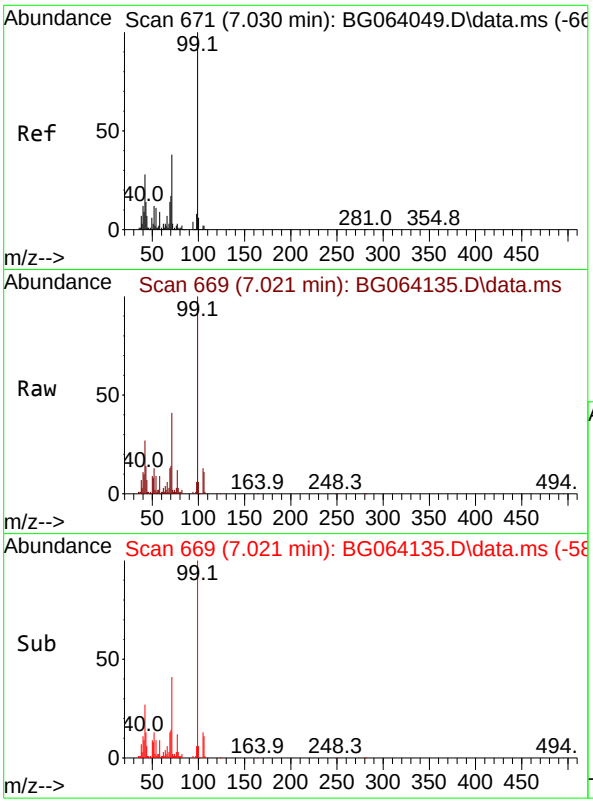


#6
Aniline
Concen: 22.276 ng
RT: 7.186 min Scan# 697
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 93 Resp: 68184

Ion	Ratio	Lower	Upper
93	100		
66	43.4	33.7	50.5
65	23.5	19.1	28.7

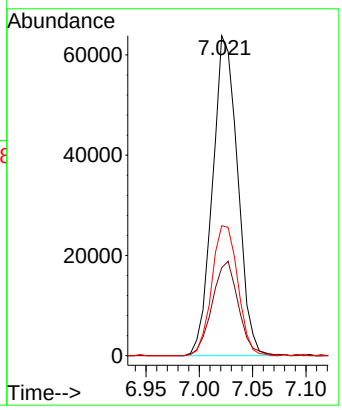




#7
Phenol-d6
Concen: 33.477 ng
RT: 7.021 min Scan# 6
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 99 Resp: 10442

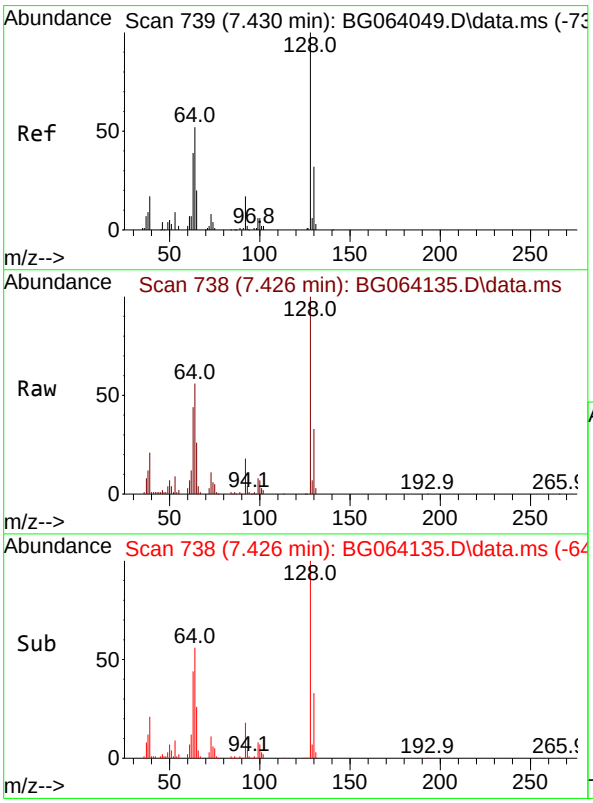
Ion	Ratio	Lower	Upper
99	100		
42	27.5	22.7	34.1
71	40.6	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

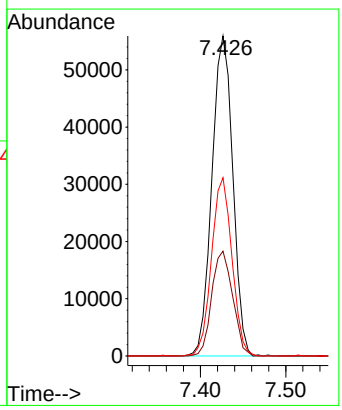
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

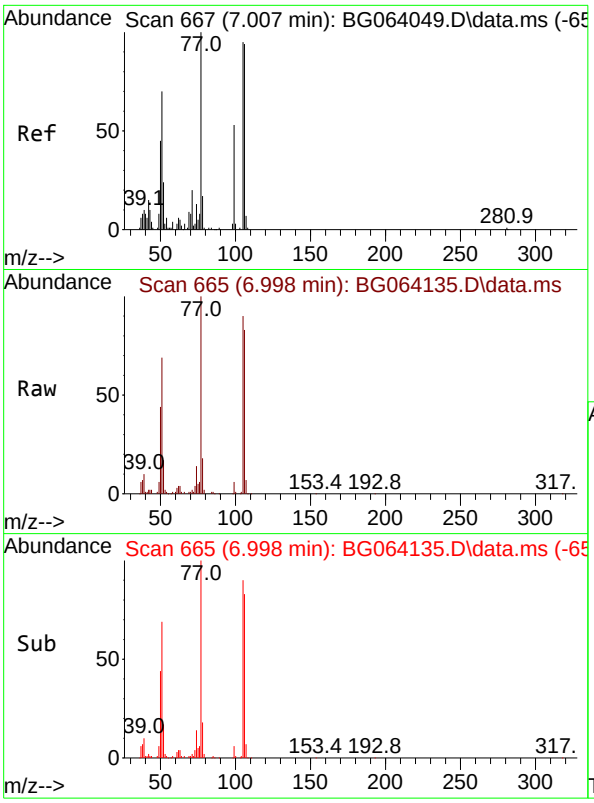


#8
2-Chlorophenol
Concen: 38.616 ng
RT: 7.426 min Scan# 738
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:128 Resp: 95098

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.3	52.3
64	55.7	37.0	77.0

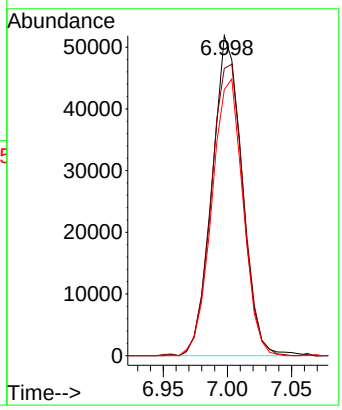




#9
Benzaldehyde
Concen: 46.401 ng m
RT: 6.998 min Scan# 6
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 77 Resp: 8417

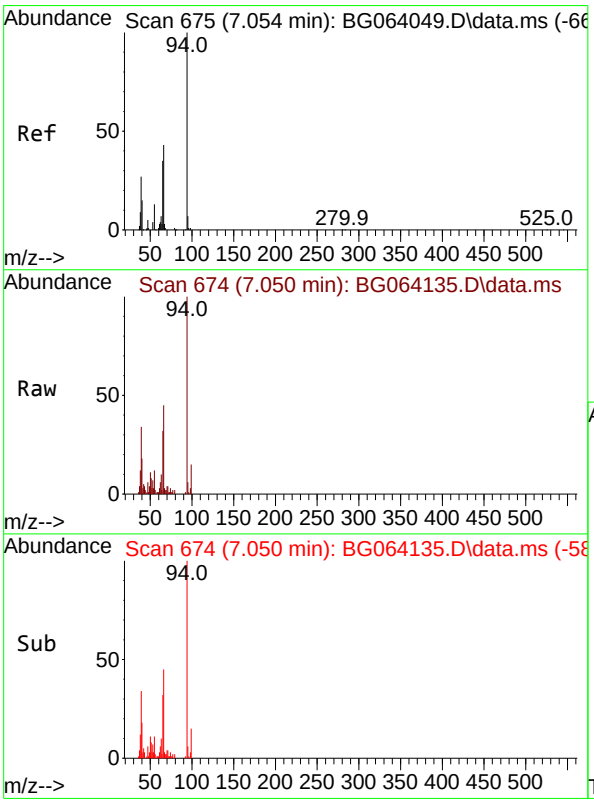
Ion	Ratio	Lower	Upper
77	100		
105	89.7	75.5	115.5
106	83.2	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

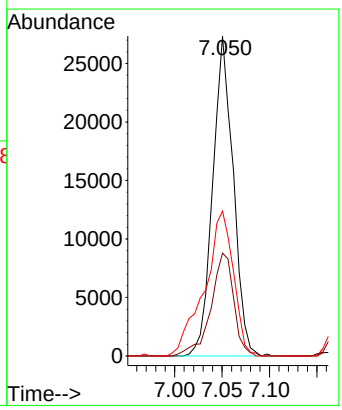
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

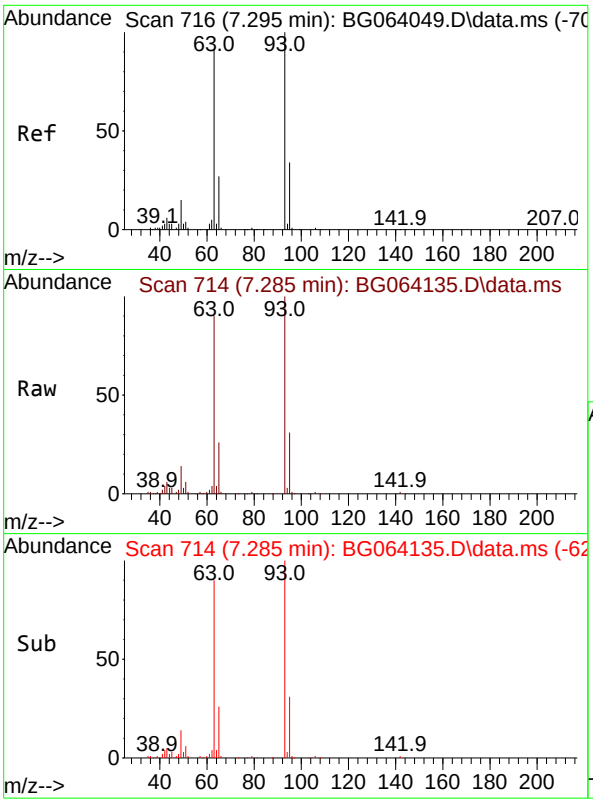


#10
Phenol
Concen: 12.912 ng
RT: 7.050 min Scan# 674
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 94 Resp: 41238

Ion	Ratio	Lower	Upper
94	100		
65	32.2	15.2	55.2
66	45.3	25.1	65.1





#11
bis(2-Chloroethyl)ether
Concen: 46.476 ng
RT: 7.285 min Scan# 7
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

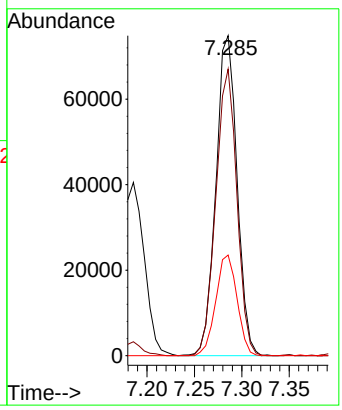
Tgt Ion: 93 Resp: 11636

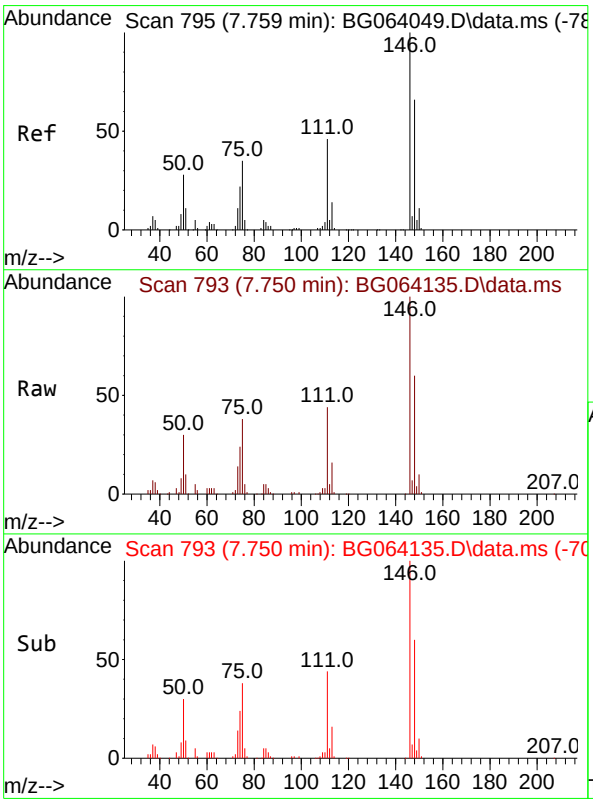
Ion	Ratio	Lower	Upper
93	100		
63	89.6	70.0	110.0
95	31.4	13.7	53.7

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

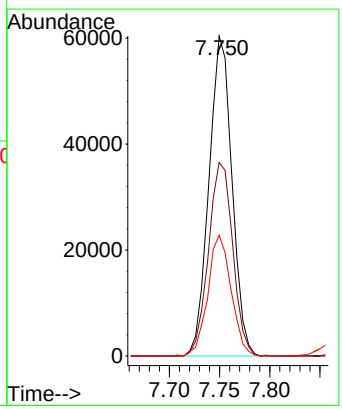


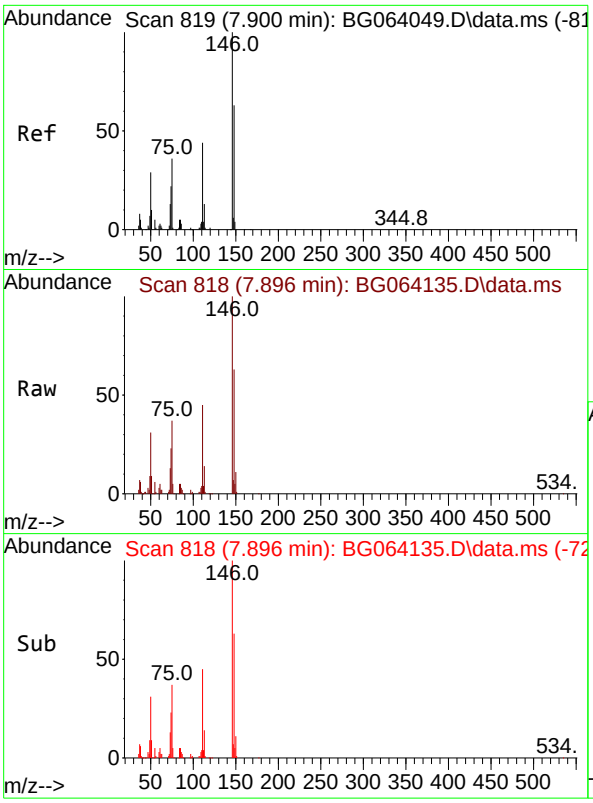


#12
1,3-Dichlorobenzene
Concen: 35.632 ng
RT: 7.750 min Scan# 793
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:146 Resp: 96360

Ion	Ratio	Lower	Upper
146	100		
148	60.4	52.6	78.8
75	37.7	28.1	42.1

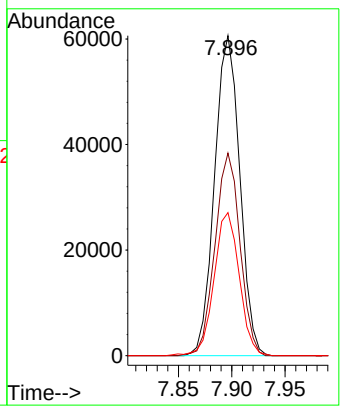




#13
1,4-Dichlorobenzene
Concen: 35.951 ng
RT: 7.896 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:146 Resp: 9965

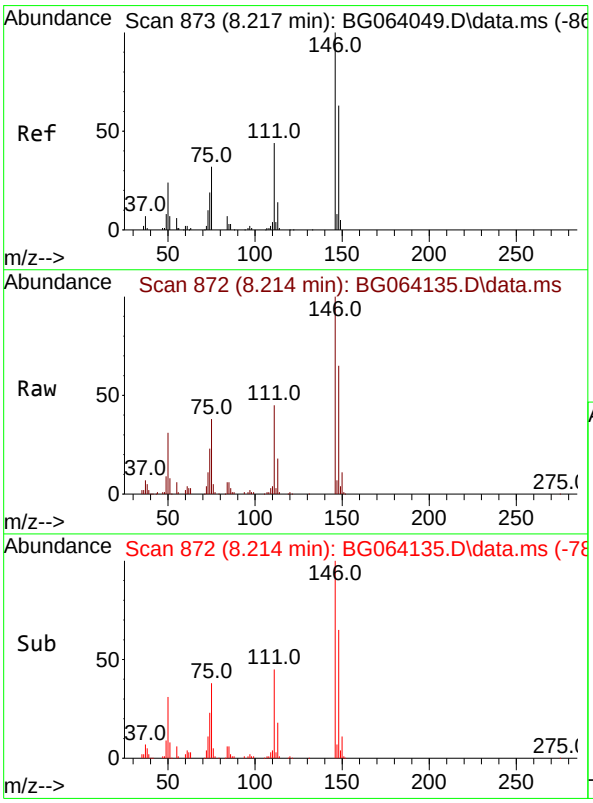
Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	75.8
111	44.7	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

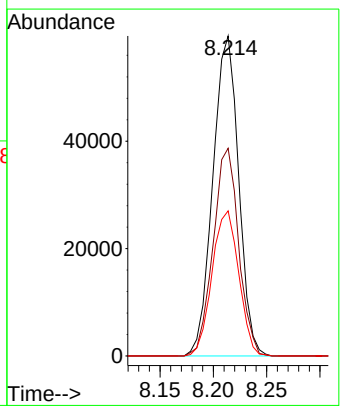
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

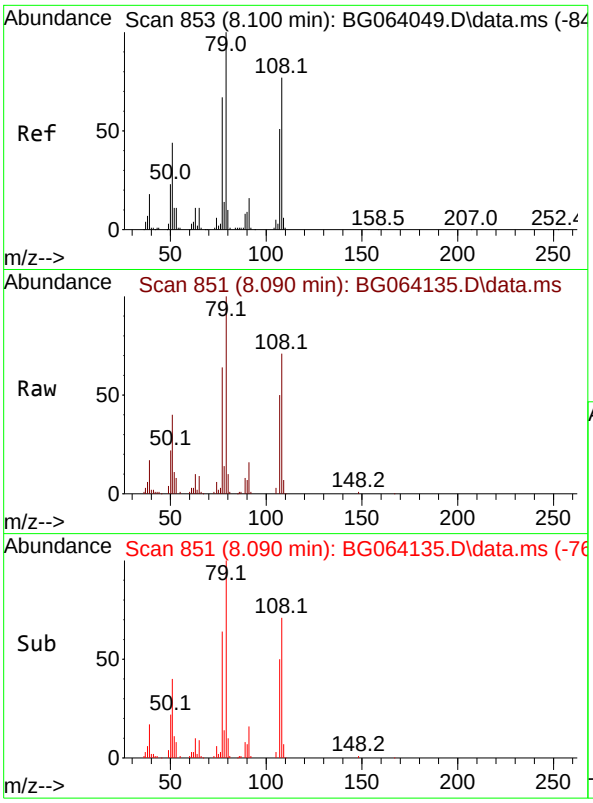


#14
1,2-Dichlorobenzene
Concen: 37.413 ng
RT: 8.214 min Scan# 872
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:146 Resp: 99999

Ion	Ratio	Lower	Upper
146	100		
148	64.9	50.2	75.2
111	45.4	36.4	54.6





#15
Benzyl Alcohol
Concen: 33.049 ng
RT: 8.090 min Scan# 8
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

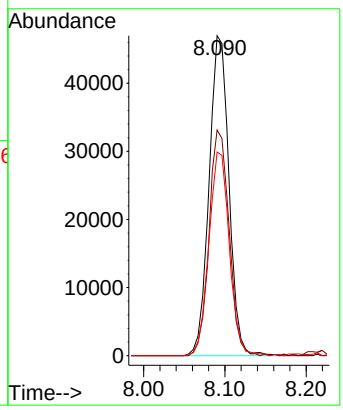
Tgt Ion: 79 Resp: 7966

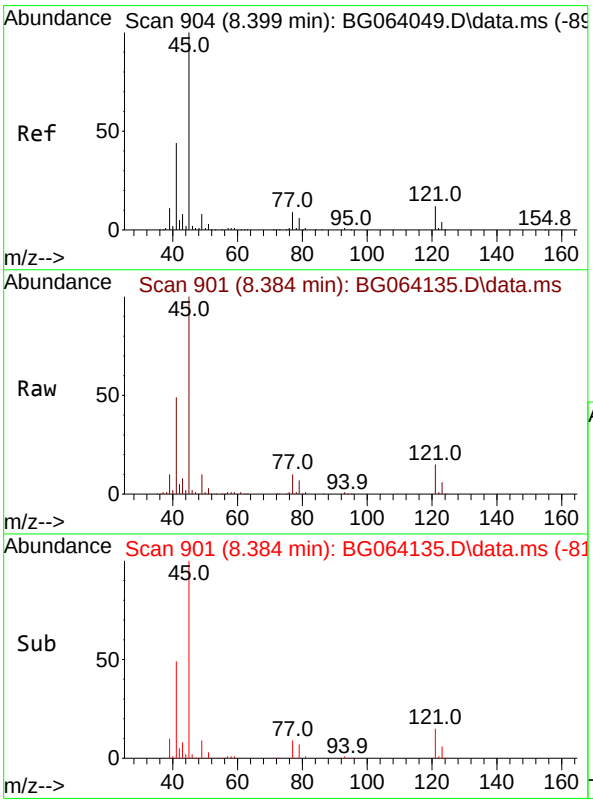
Ion	Ratio	Lower	Upper
79	100		
108	70.5	61.7	92.5
77	63.7	53.9	80.9

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

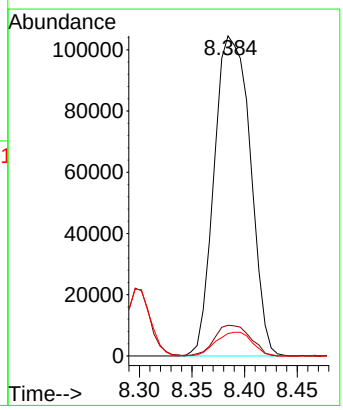


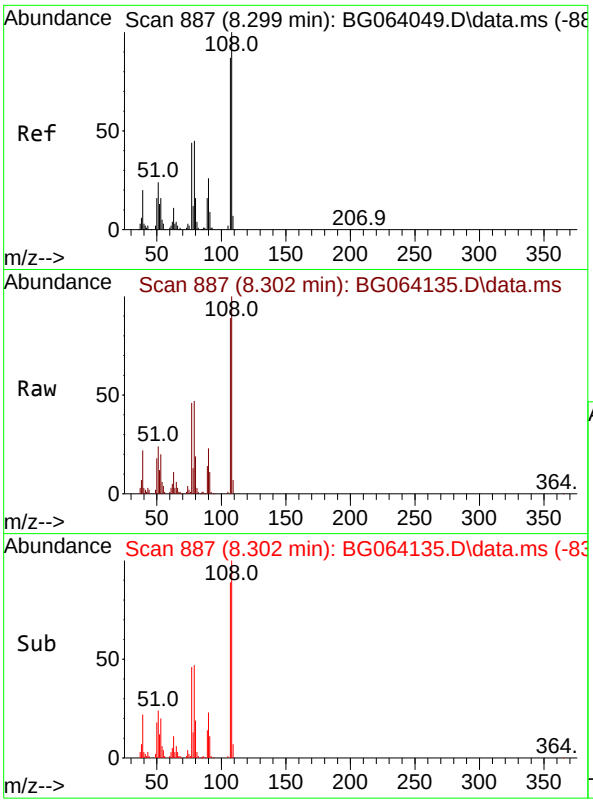


#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.251 ng m
RT: 8.384 min Scan# 901
Delta R.T. -0.015 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 45 Resp: 249131

Ion	Ratio	Lower	Upper
45	100		
77	9.6	0.0	29.0
79	7.0	0.0	26.6

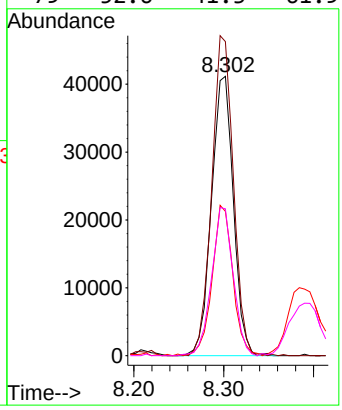




#17
2-Methylphenol
Concen: 32.926 ng
RT: 8.302 min Scan# 8
Delta R.T. 0.002 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:107 Resp: 6979

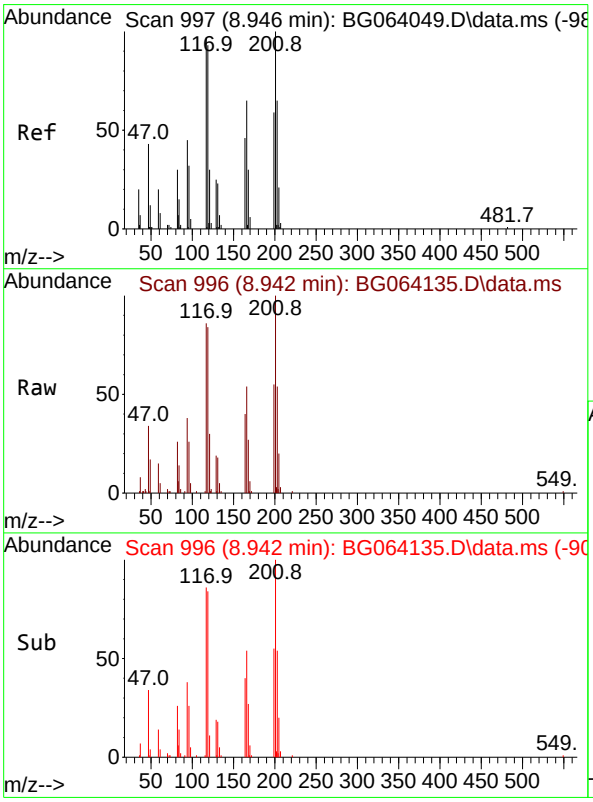
Ion	Ratio	Lower	Upper
107	100		
108	112.5	92.5	138.7
77	51.7	40.5	60.7
79	52.6	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

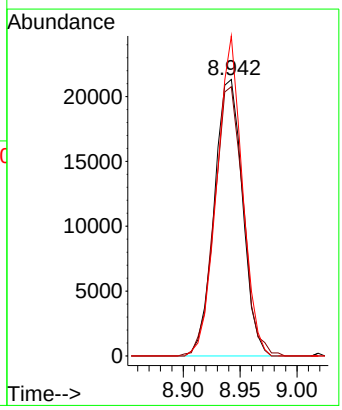
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

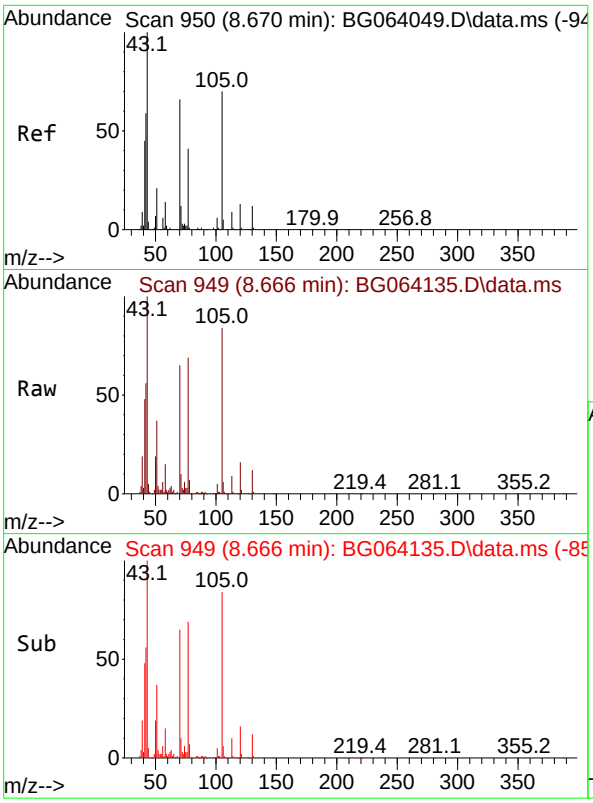


#18
Hexachloroethane
Concen: 37.965 ng
RT: 8.942 min Scan# 996
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:117 Resp: 36819

Ion	Ratio	Lower	Upper
117	100		
119	97.4	76.2	114.2
201	115.7	81.5	122.3

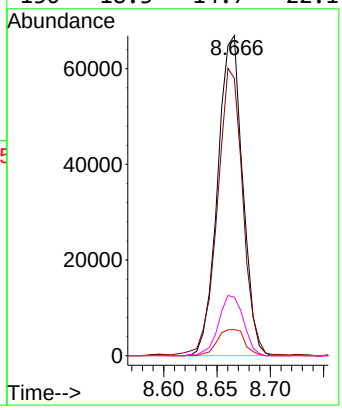




#19
n-Nitroso-di-n-propylamine
Concen: 49.693 ng
RT: 8.666 min Scan# 94
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 70 Resp: 10878

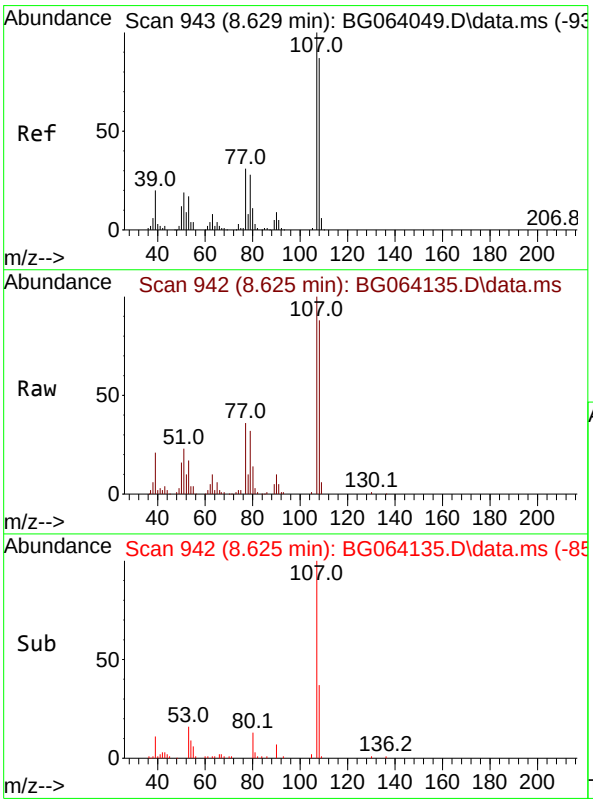
Ion	Ratio	Lower	Upper
70	100		
42	86.7	72.1	108.1
101	8.1	7.2	10.8
130	18.3	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

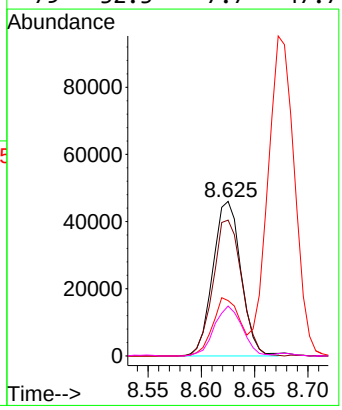
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

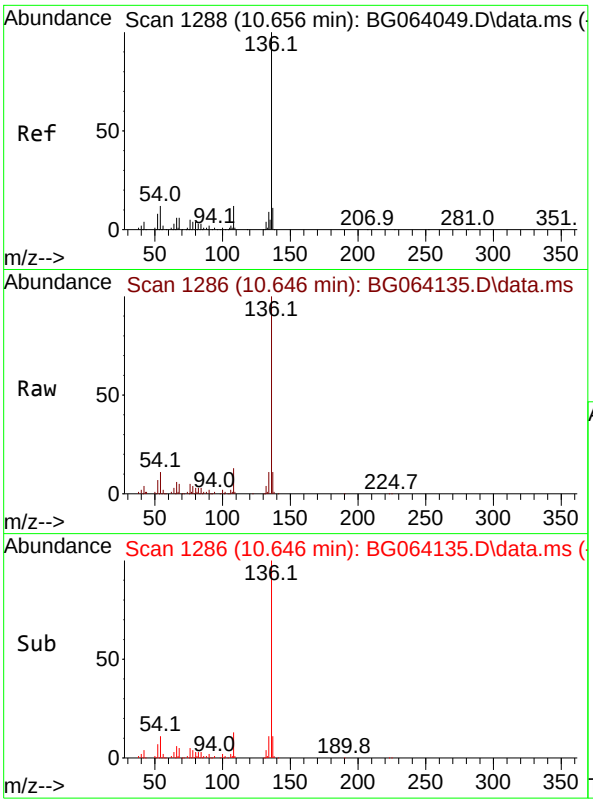


#20
3+4-Methylphenols
Concen: 28.972 ng
RT: 8.625 min Scan# 942
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:107 Resp: 84543

Ion	Ratio	Lower	Upper
107	100		
108	87.9	67.0	107.0
77	35.9	11.2	51.2
79	32.3	7.7	47.7

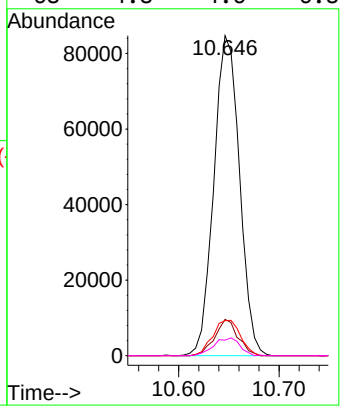




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.646 min Scan# 1
Delta R.T. -0.010 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:136 Resp: 15044

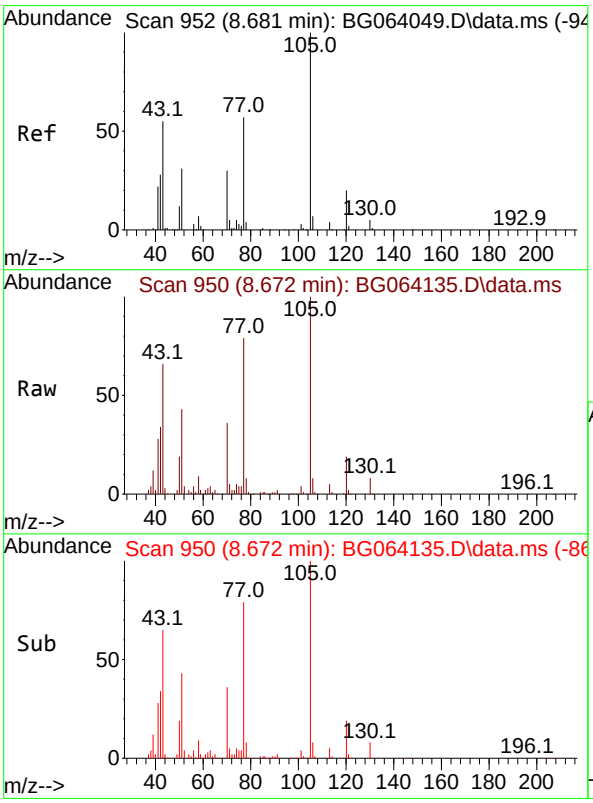
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.5	12.7
54	11.0	9.9	14.9
68	4.8	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

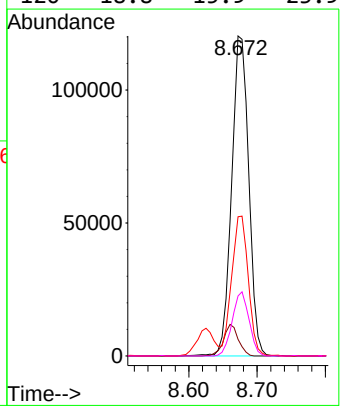
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

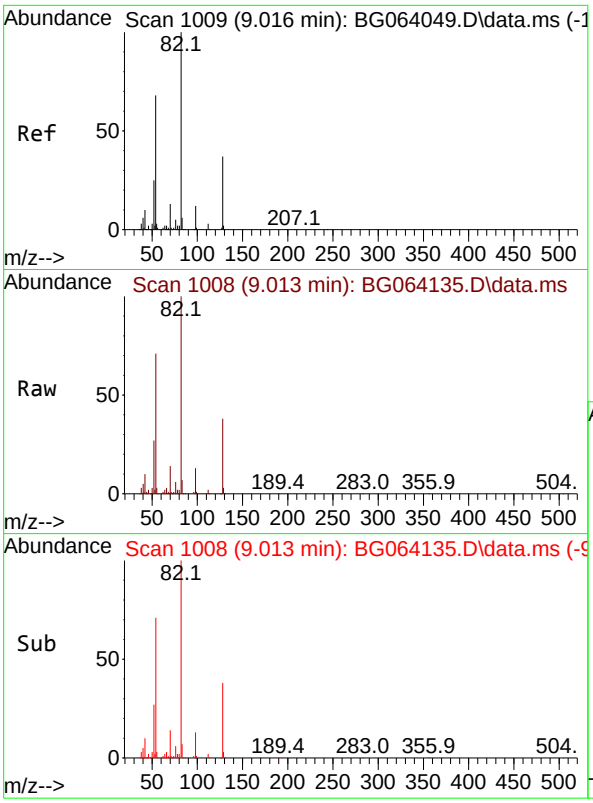


#22
Acetophenone
Concen: 50.852 ng
RT: 8.672 min Scan# 950
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:105 Resp: 209755

Ion	Ratio	Lower	Upper
105	100		
71	5.2	4.2	6.4
51	43.5	33.3	49.9
120	18.8	15.9	23.9

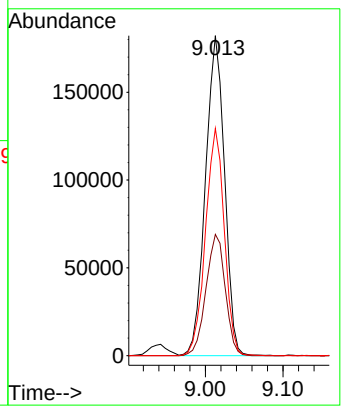




#23
Nitrobenzene-d5
Concen: 114.310 ng
RT: 9.013 min Scan# 1(
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 82 Resp: 31119(

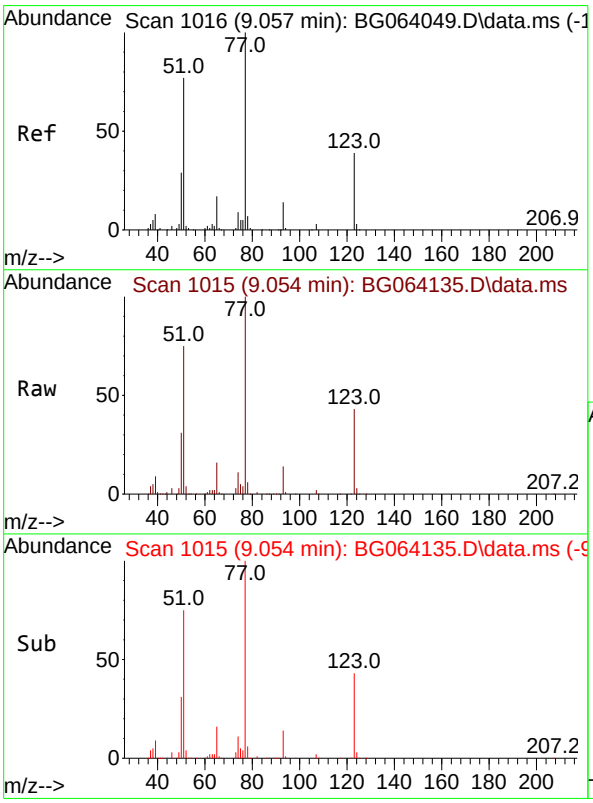
Ion	Ratio	Lower	Upper
82	100		
128	37.9	30.0	45.0
54	71.0	54.7	82.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

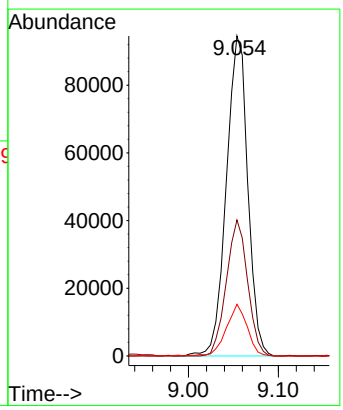
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

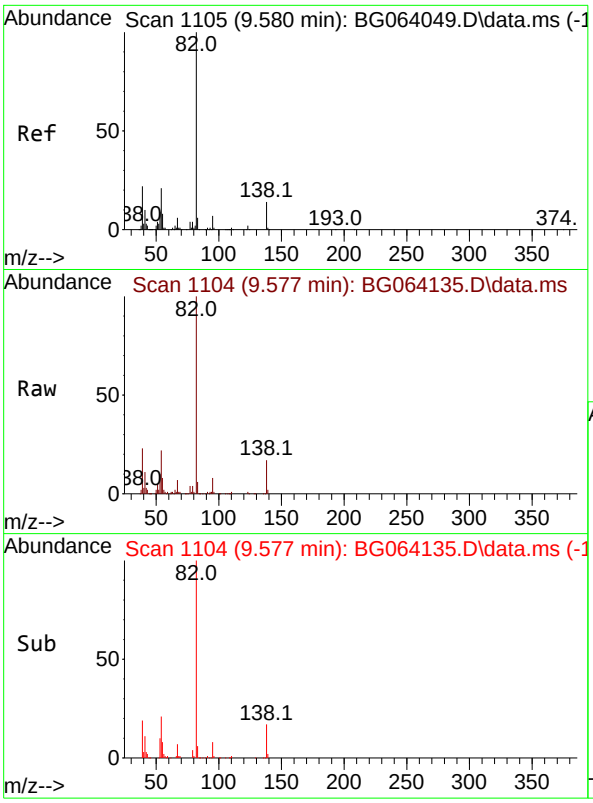


#24
Nitrobenzene
Concen: 55.613 ng
RT: 9.054 min Scan# 1015
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 77 Resp: 156461

Ion	Ratio	Lower	Upper
77	100		
123	42.5	31.4	47.2
65	16.1	13.4	20.0

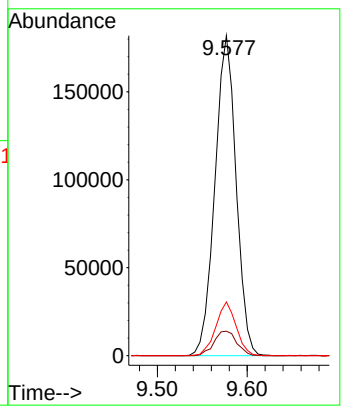




#25
Isophorone
Concen: 54.676 ng
RT: 9.577 min Scan# 11
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 82 Resp: 29792

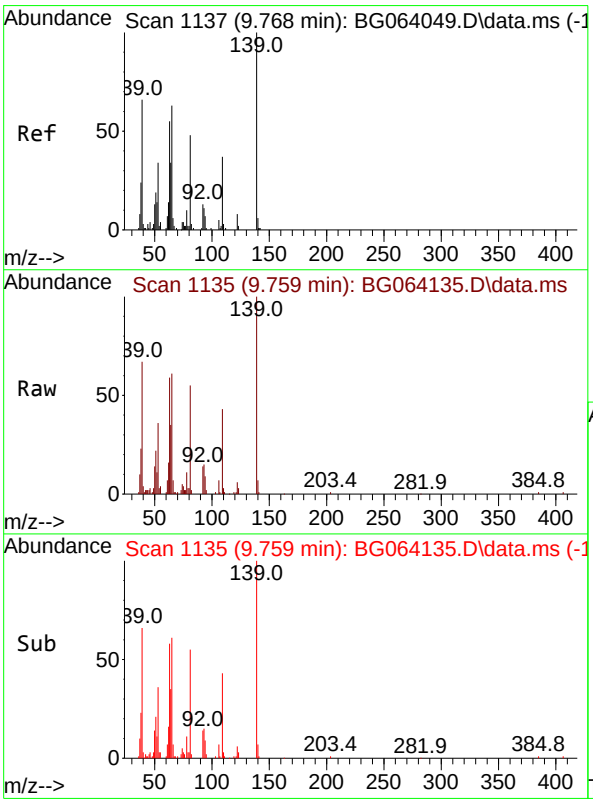
Ion	Ratio	Lower	Upper
82	100		
95	7.7	5.8	8.8
138	16.8	10.9	16.3#



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

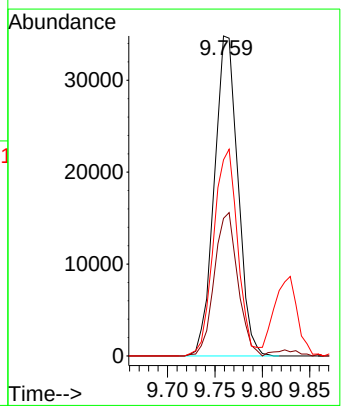
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

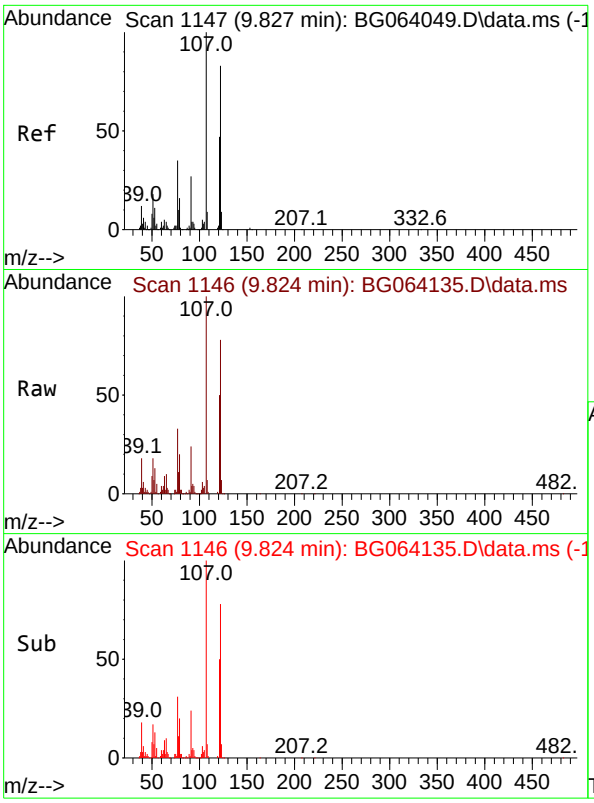


#26
2-Nitrophenol
Concen: 58.957 ng
RT: 9.759 min Scan# 1135
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:139 Resp: 60363

Ion	Ratio	Lower	Upper
139	100		
109	43.0	29.9	44.9
65	61.3	50.6	76.0

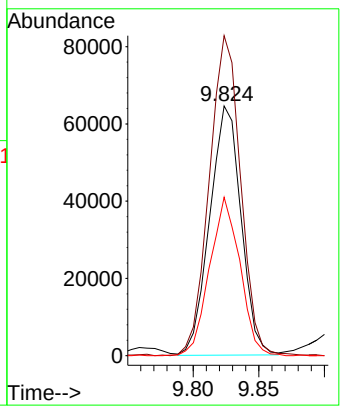




#27
2,4-Dimethylphenol
Concen: 65.436 ng
RT: 9.824 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:122 Resp: 10688

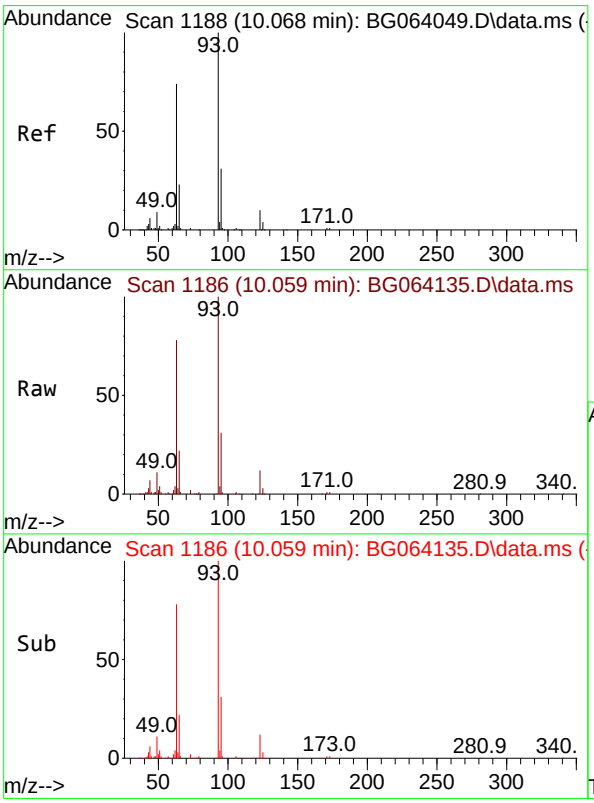
Ion	Ratio	Lower	Upper
122	100		
107	128.1	95.4	143.0
121	63.4	44.9	67.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

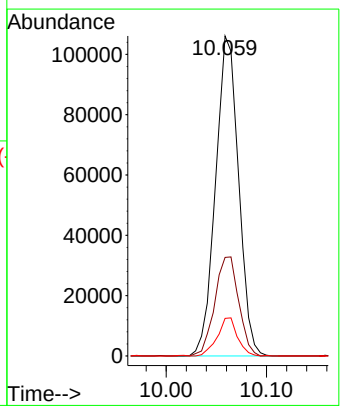
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

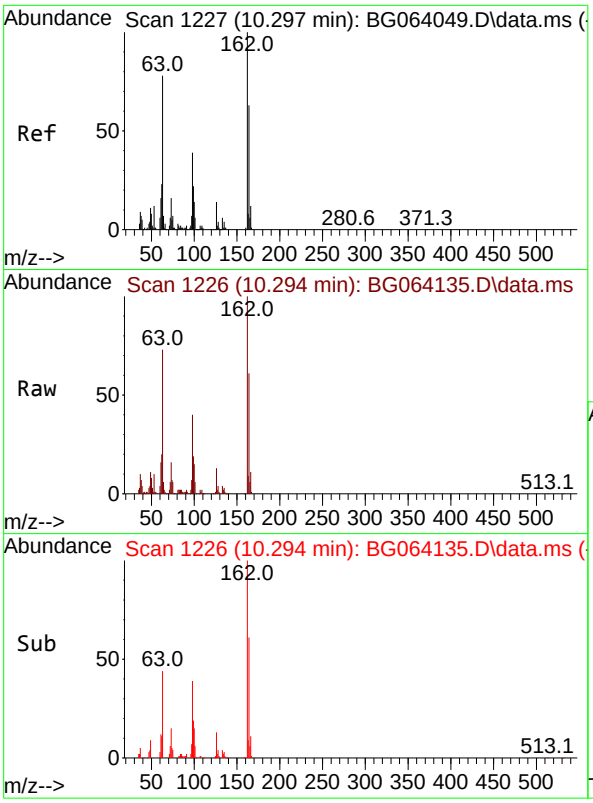


#28
bis(2-Chloroethoxy)methane
Concen: 51.085 ng
RT: 10.059 min Scan# 1186
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 93 Resp: 168759

Ion	Ratio	Lower	Upper
93	100		
95	30.8	25.0	37.4
123	11.7	7.6	11.4#





#29
2,4-Dichlorophenol
Concen: 52.260 ng
RT: 10.294 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

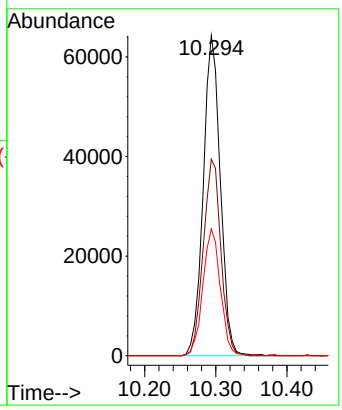
Tgt Ion:162 Resp: 10779

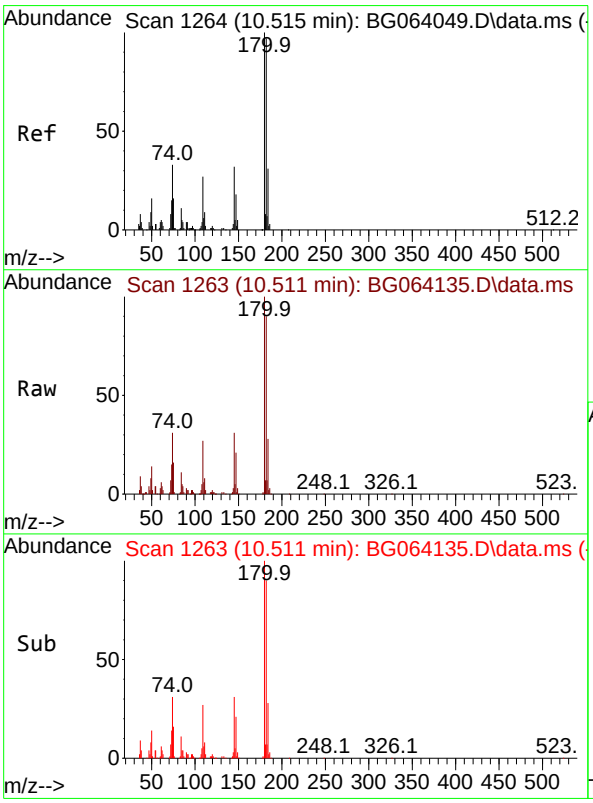
Ion	Ratio	Lower	Upper
162	100		
164	61.4	42.8	82.8
98	39.6	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

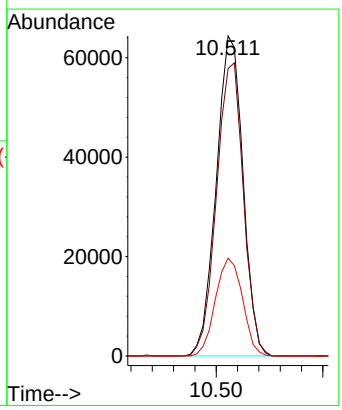


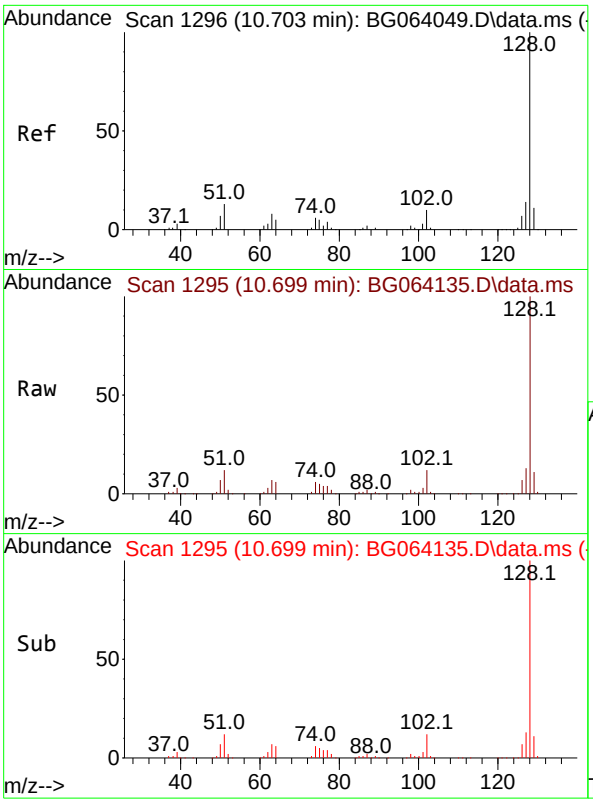


#30
1,2,4-Trichlorobenzene
Concen: 44.990 ng
RT: 10.511 min Scan# 1263
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:180 Resp: 112022

Ion	Ratio	Lower	Upper
180	100		
182	89.9	77.3	115.9
145	30.5	25.2	37.8

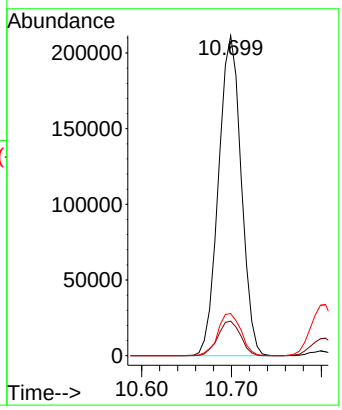




#31
Naphthalene
Concen: 45.689 ng
RT: 10.699 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:128 Resp: 370640

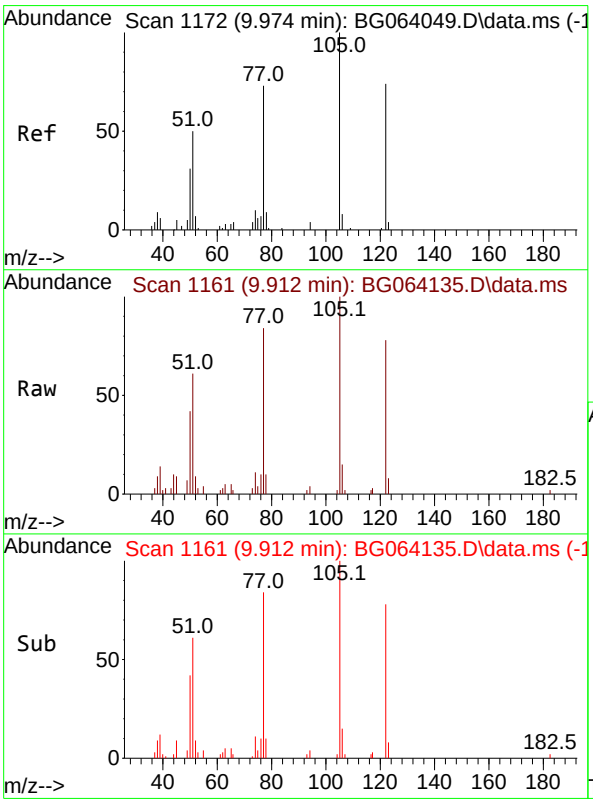
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.4	12.6
127	13.2	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

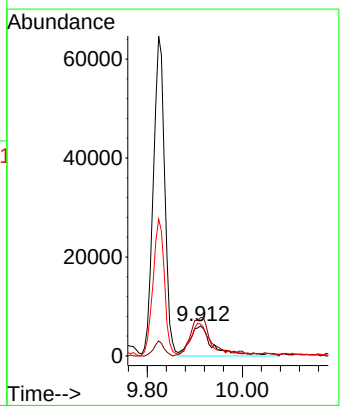
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

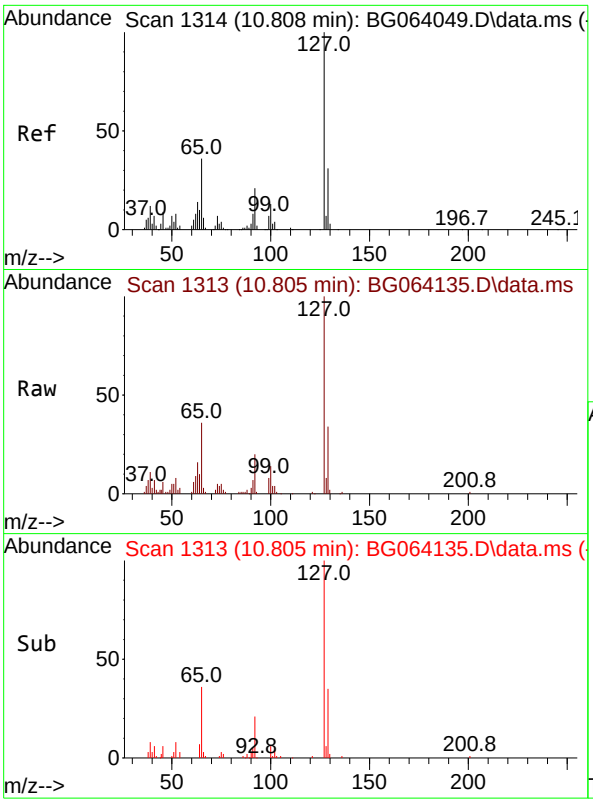


#32
Benzoic acid
Concen: 20.044 ng m
RT: 9.912 min Scan# 1161
Delta R.T. -0.062 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:122 Resp: 20796

Ion	Ratio	Lower	Upper
122	100		
105	127.8	115.0	155.0
77	107.1	80.9	120.9

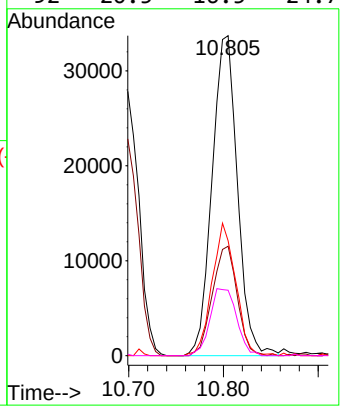




#33
4-Chloroaniline
Concen: 21.142 ng
RT: 10.805 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:127 Resp: 6268

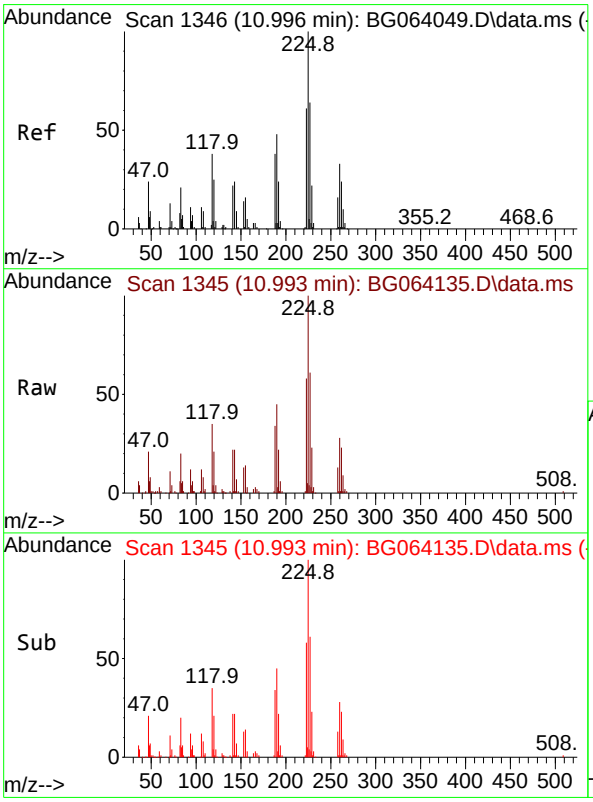
Ion	Ratio	Lower	Upper
127	100		
129	34.2	25.0	37.4
65	35.9	28.5	42.7
92	20.5	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

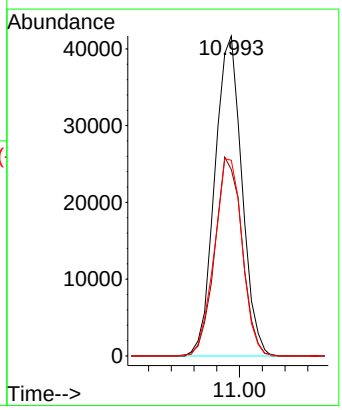
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

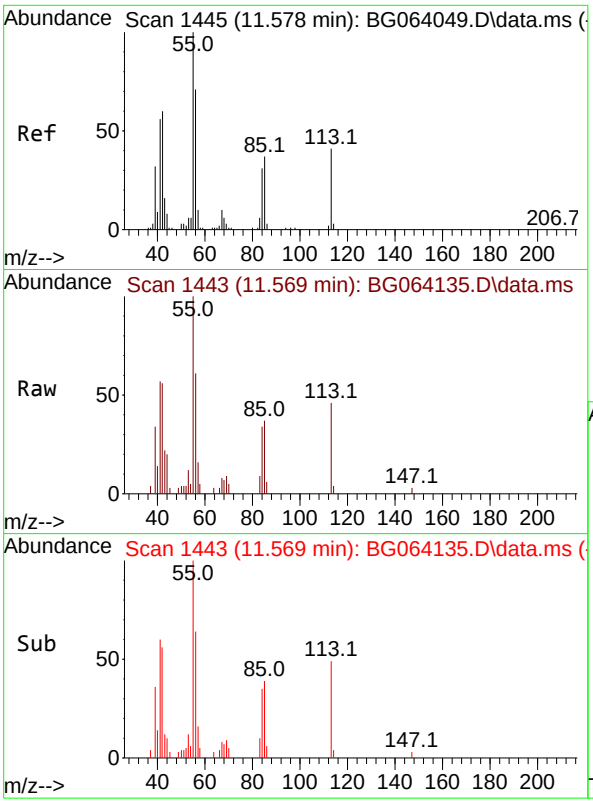


#34
Hexachlorobutadiene
Concen: 42.161 ng
RT: 10.993 min Scan# 1345
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:225 Resp: 68809

Ion	Ratio	Lower	Upper
225	100		
223	58.2	48.5	72.7
227	61.2	51.0	76.6

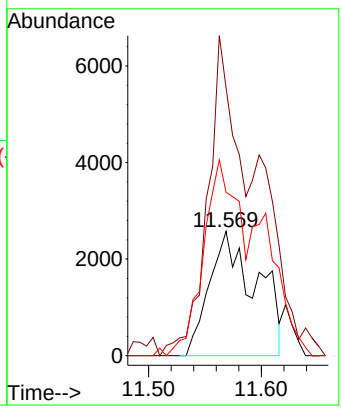




#35
Caprolactam
Concen: 9.409 ng m
RT: 11.569 min Scan# 14
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:113 Resp: 743

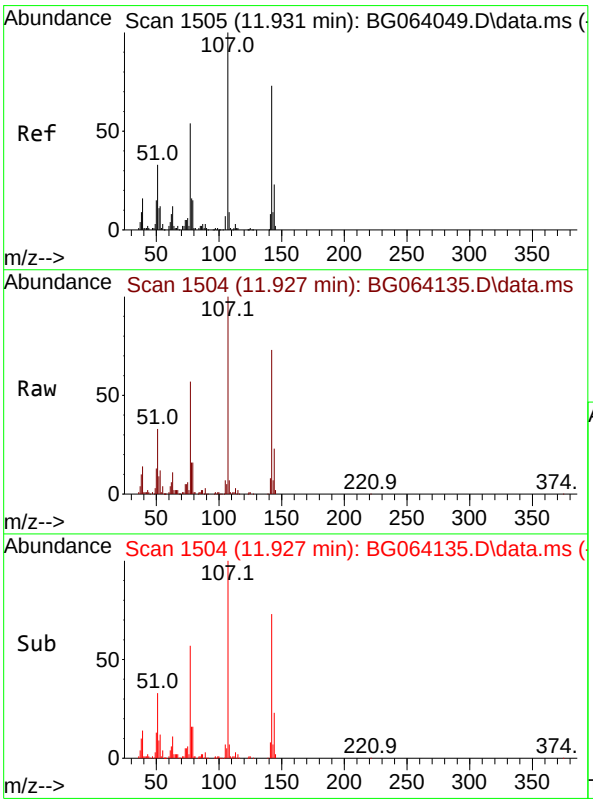
Ion	Ratio	Lower	Upper
113	100		
55	215.8	225.2	265.2#
56	131.6	153.4	193.4#



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

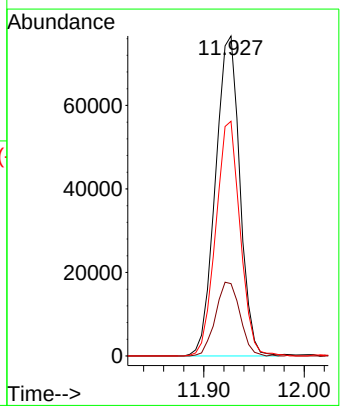
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

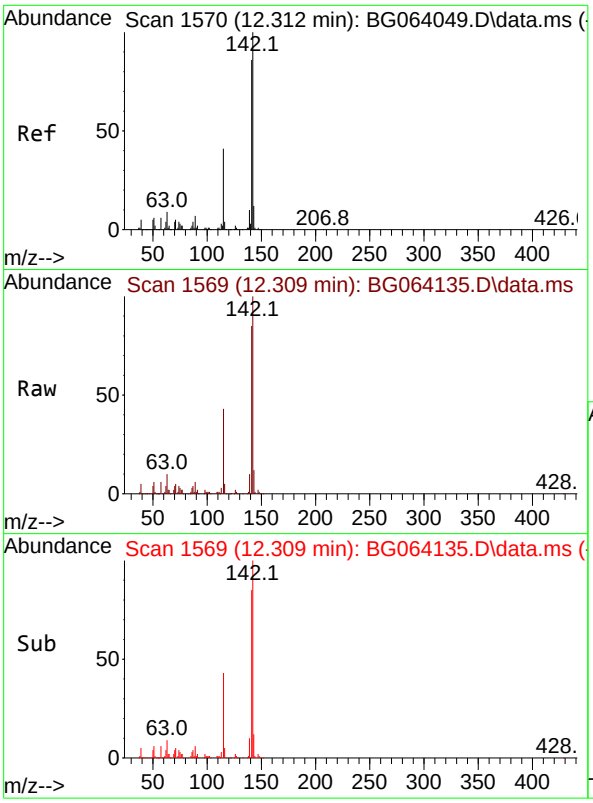


#36
4-Chloro-3-methylphenol
Concen: 47.831 ng
RT: 11.927 min Scan# 1504
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:107 Resp: 129320

Ion	Ratio	Lower	Upper
107	100		
144	22.6	18.6	28.0
142	73.3	58.0	87.0

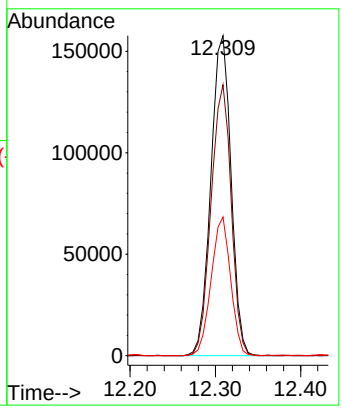




#37
2-Methylnaphthalene
Concen: 45.394 ng
RT: 12.309 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:142 Resp: 25996

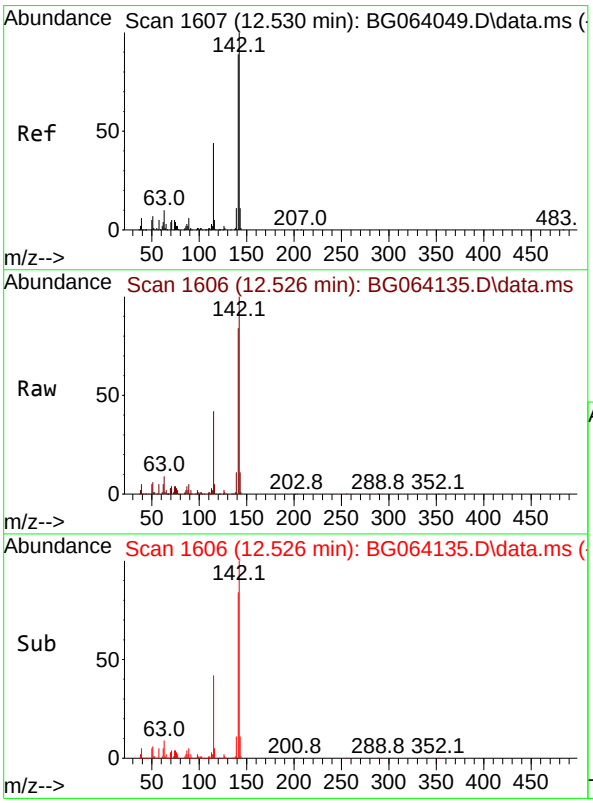
Ion	Ratio	Lower	Upper
142	100		
141	84.7	68.6	103.0
115	43.3	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

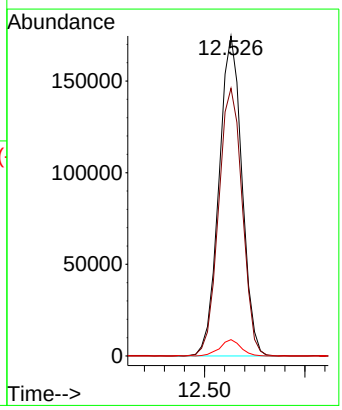
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

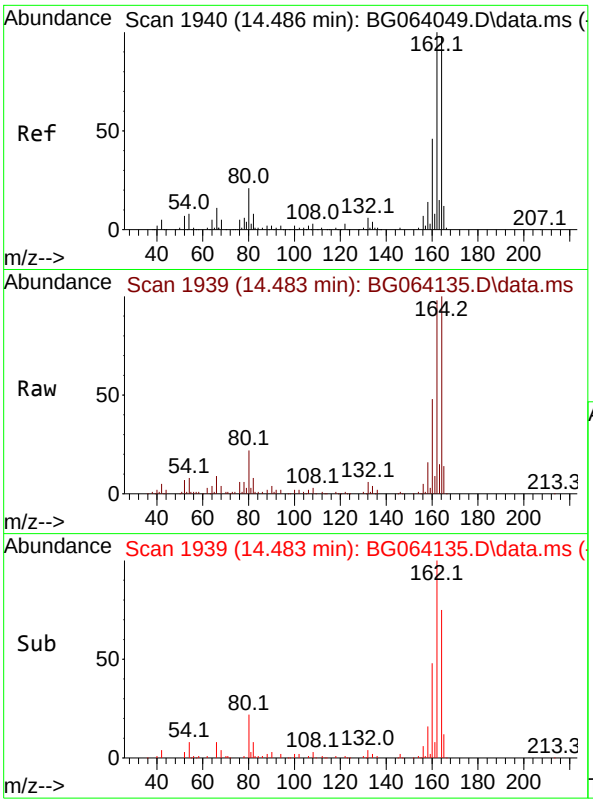


#38
1-Methylnaphthalene
Concen: 49.363 ng
RT: 12.526 min Scan# 1606
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:142 Resp: 276960

Ion	Ratio	Lower	Upper
142	100		
141	83.7	71.2	106.8
116	5.1	3.6	5.4

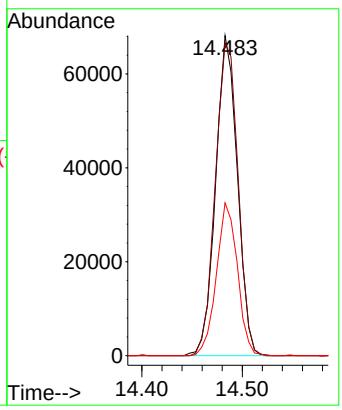




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:164 Resp: 10227

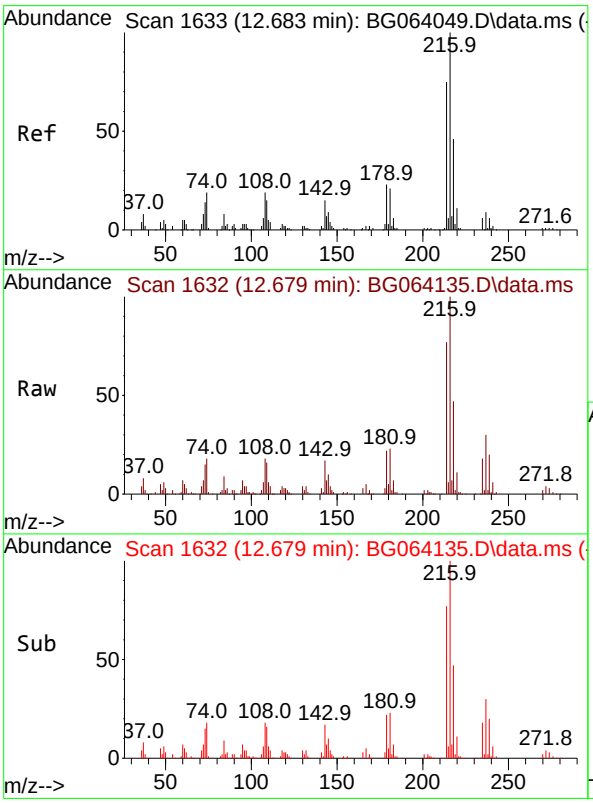
Ion	Ratio	Lower	Upper
164	100		
162	97.8	81.4	122.0
160	47.7	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

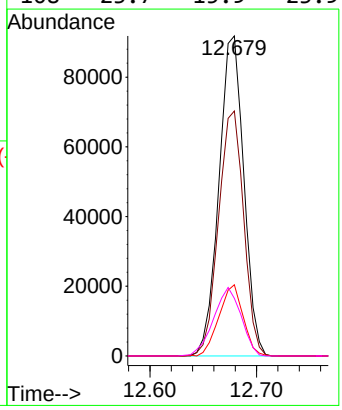
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

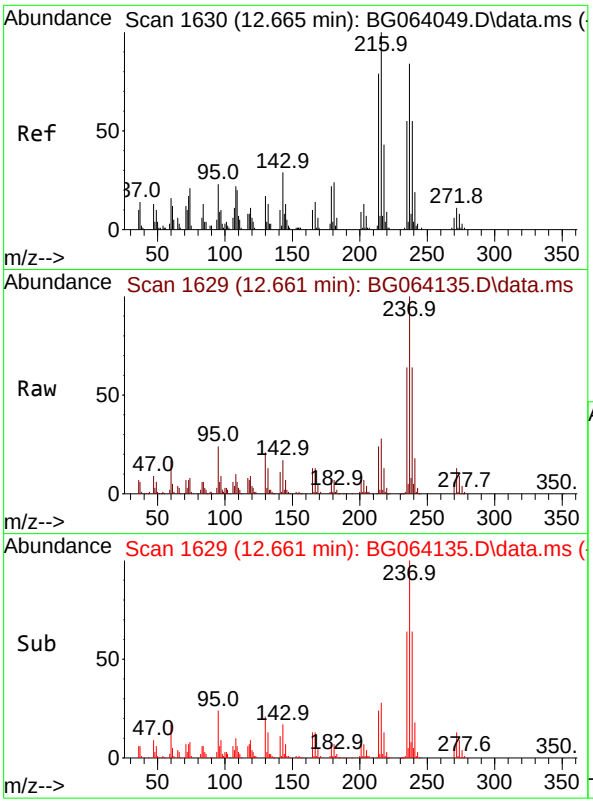


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.923 ng
RT: 12.679 min Scan# 1632
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:216 Resp: 148692

Ion	Ratio	Lower	Upper
216	100		
214	77.3	61.7	92.5
179	21.7	17.9	26.9
108	23.7	15.9	23.9

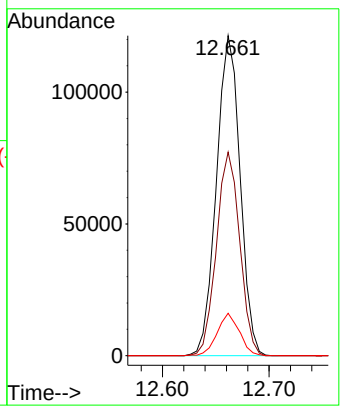




#41
Hexachlorocyclopentadiene
Concen: 227.561 ng
RT: 12.661 min Scan# 1(
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:237 Resp: 18701(

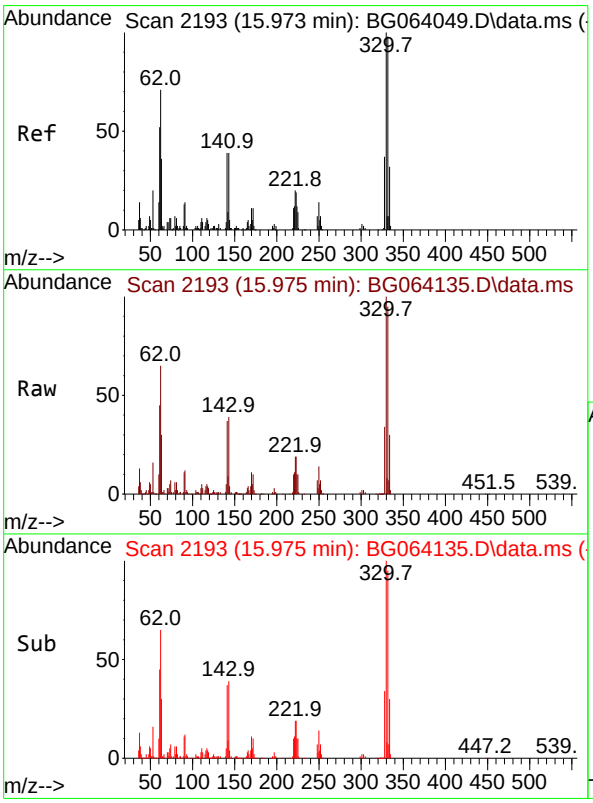
Ion	Ratio	Lower	Upper
237	100		
235	63.6	46.0	86.0
272	13.2	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

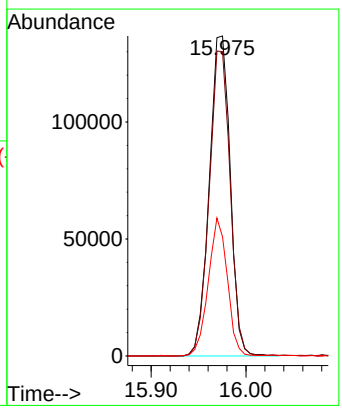
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

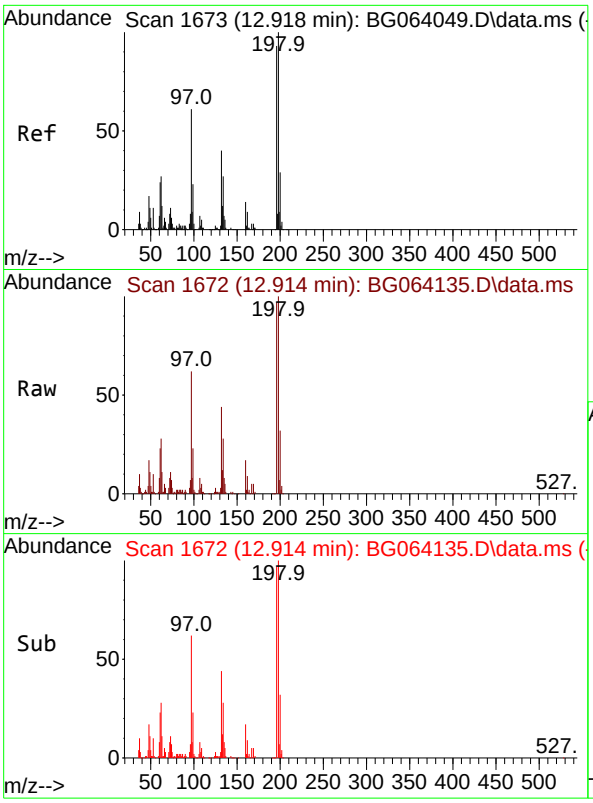


#42
2,4,6-Tribromophenol
Concen: 184.219 ng
RT: 15.975 min Scan# 2193
Delta R.T. 0.002 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:330 Resp: 209437

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.7	115.1
141	39.3	29.7	44.5





#43
2,4,6-Trichlorophenol
Concen: 61.625 ng
RT: 12.914 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

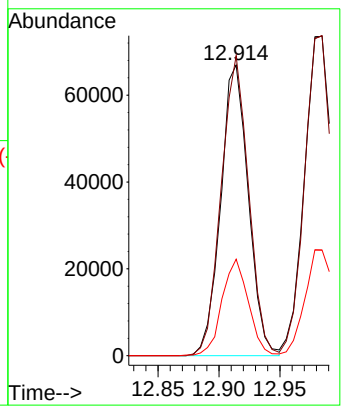
Tgt Ion:196 Resp: 10605

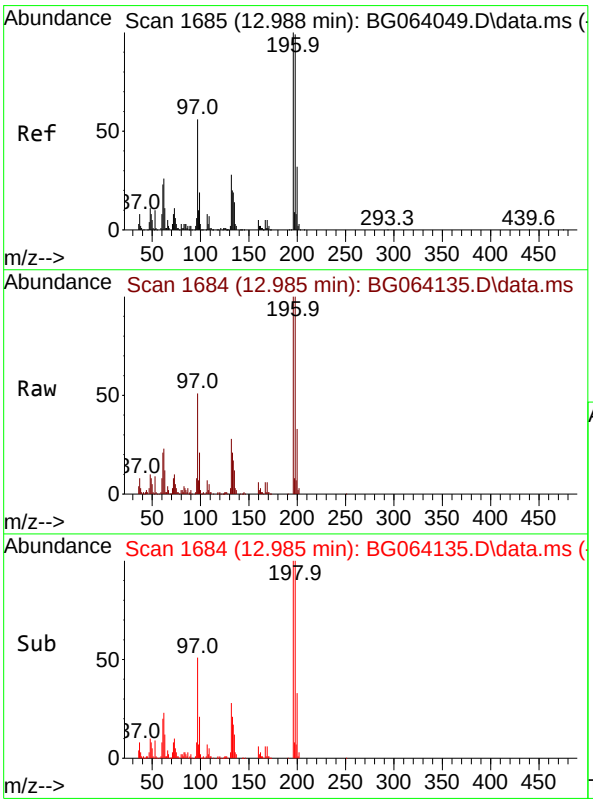
Ion	Ratio	Lower	Upper
196	100		
198	103.2	85.6	128.4
200	33.2	24.6	37.0

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

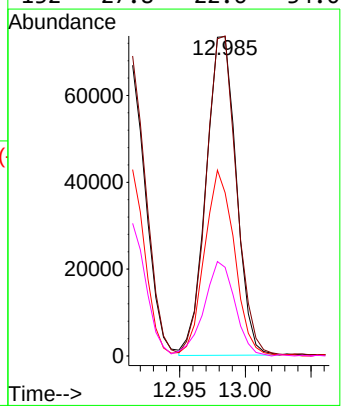


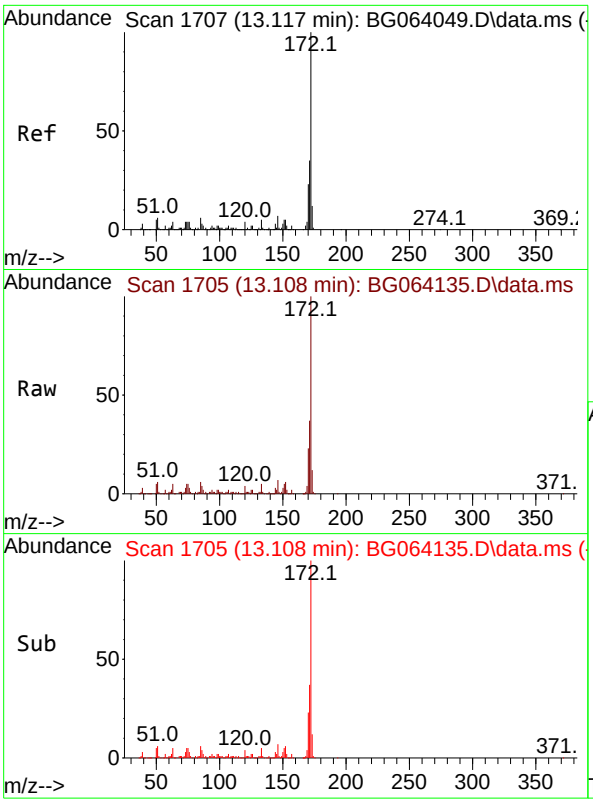


#44
2,4,5-Trichlorophenol
Concen: 61.460 ng
RT: 12.985 min Scan# 1684
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:196 Resp: 117523

Ion	Ratio	Lower	Upper
196	100		
198	100.2	79.5	119.3
97	51.1	45.2	67.8
132	27.8	22.6	34.0

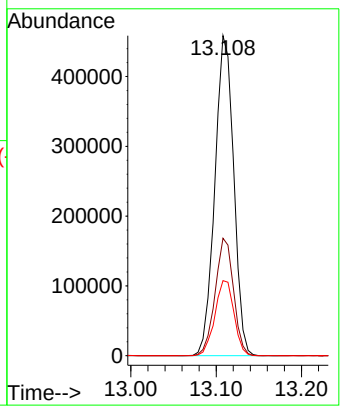




#45
2-Fluorobiphenyl
Concen: 104.574 ng
RT: 13.108 min Scan# 1
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:172 Resp: 70464

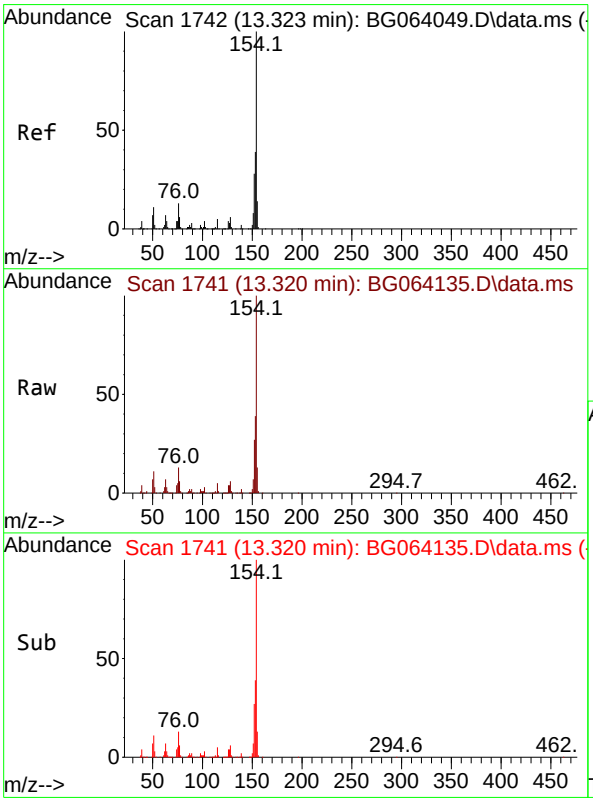
Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.0	42.0
170	23.5	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

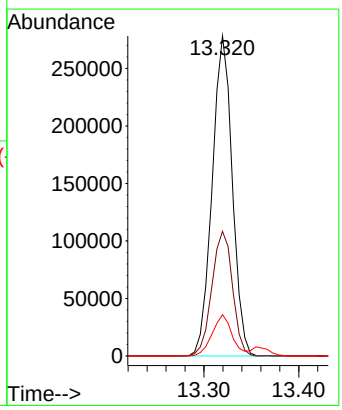
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

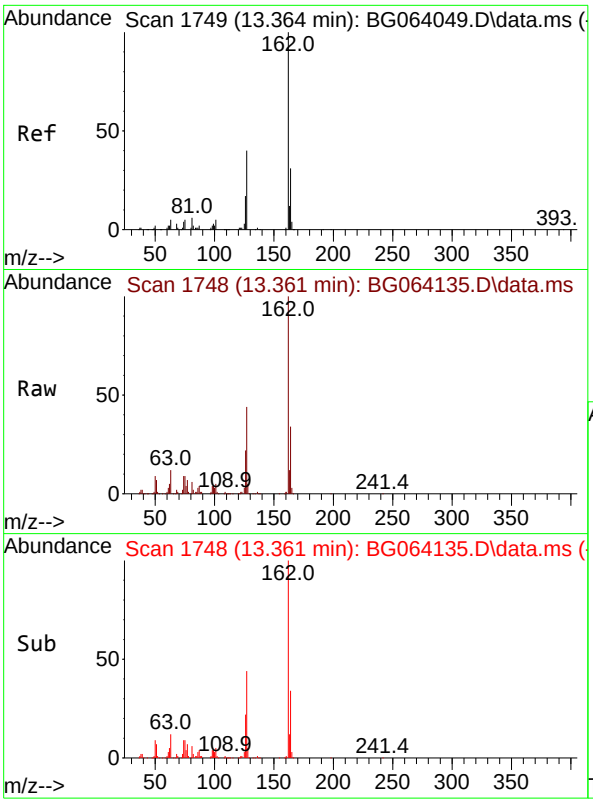


#46
1,1'-Biphenyl
Concen: 53.002 ng
RT: 13.320 min Scan# 1741
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:154 Resp: 409560

Ion	Ratio	Lower	Upper
154	100		
153	39.0	19.5	59.5
76	12.9	0.0	33.5

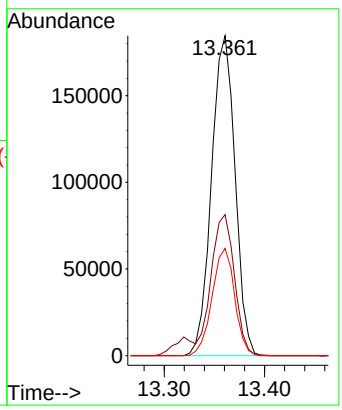




#47
2-Chloronaphthalene
Concen: 53.437 ng
RT: 13.361 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:162 Resp: 30115

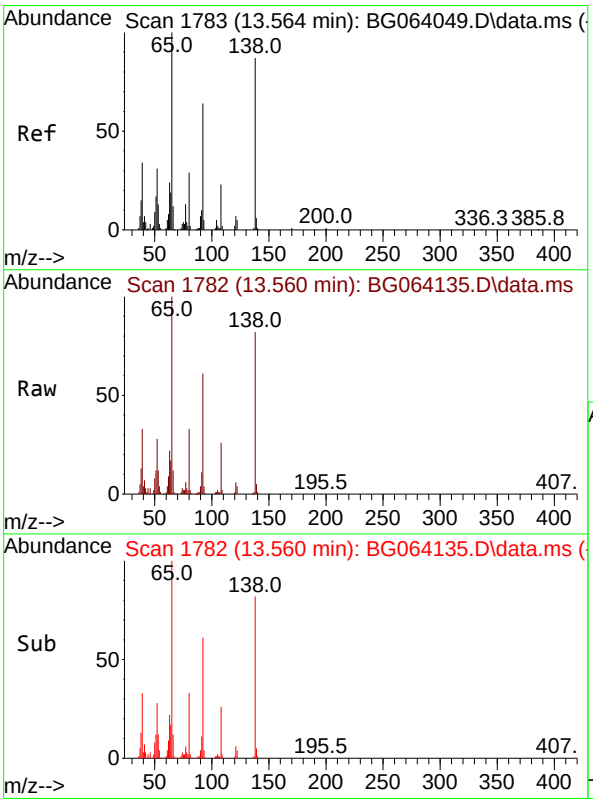
Ion	Ratio	Lower	Upper
162	100		
127	44.1	35.0	52.4
164	33.6	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

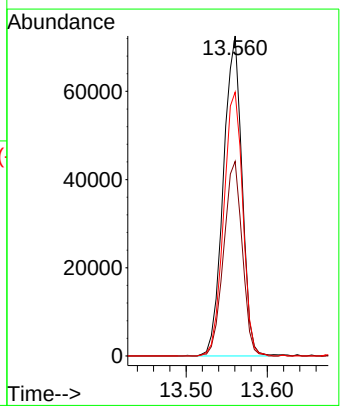
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

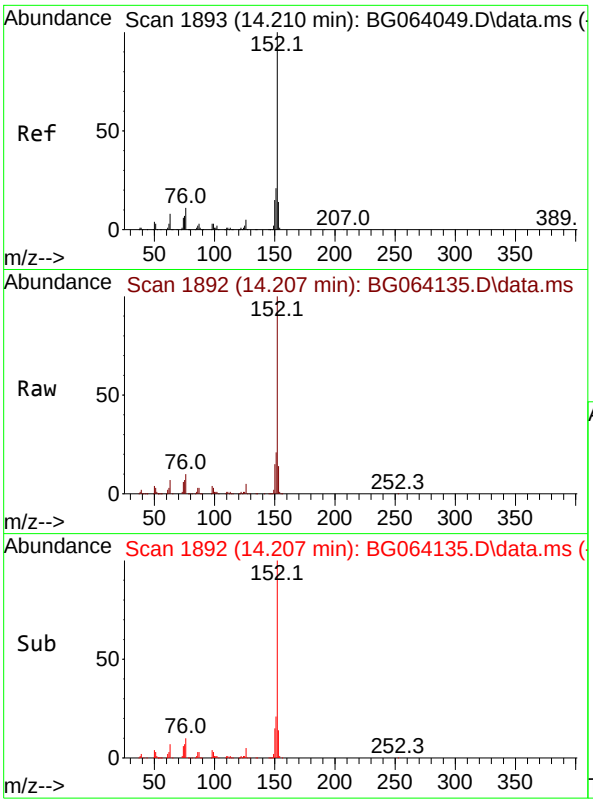


#48
2-Nitroaniline
Concen: 59.139 ng
RT: 13.560 min Scan# 1782
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 65 Resp: 115806

Ion	Ratio	Lower	Upper
65	100		
92	60.8	51.2	76.8
138	82.5	69.4	104.2

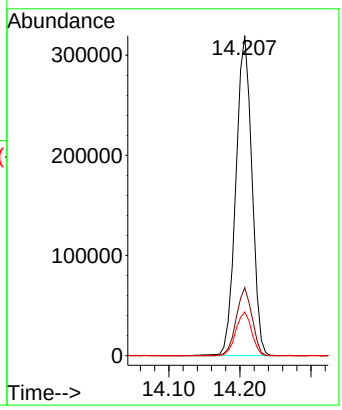




#49
Acenaphthylene
Concen: 56.277 ng
RT: 14.207 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:152 Resp: 50165

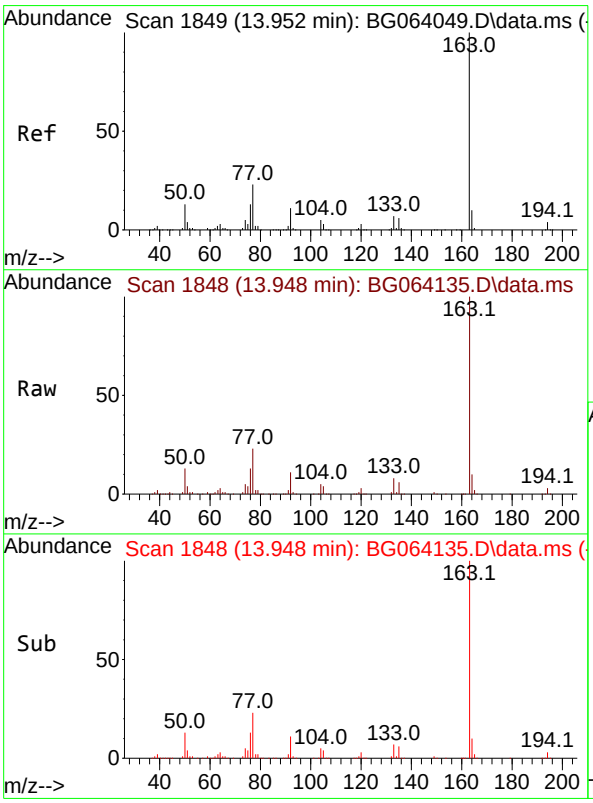
Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.4	24.6
153	13.7	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

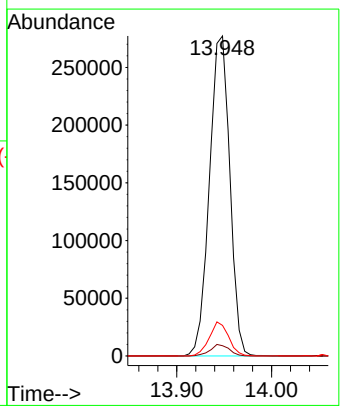
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

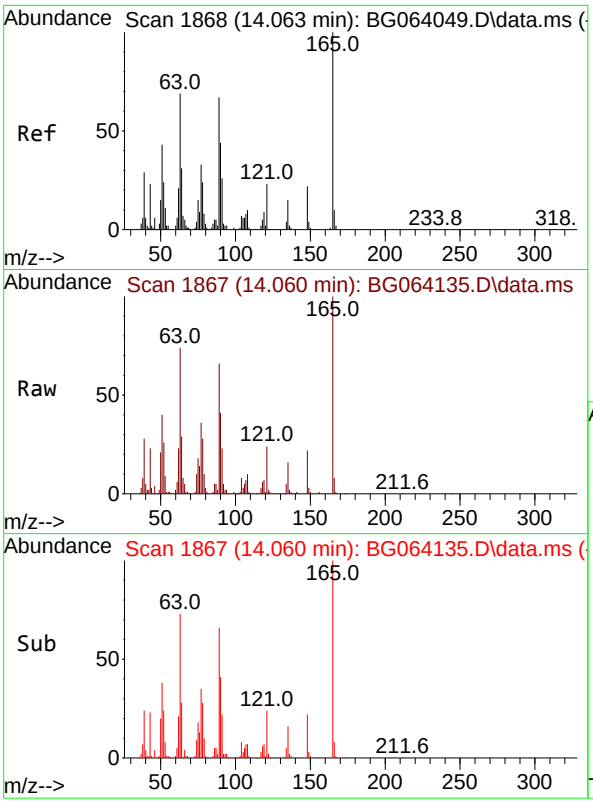


#50
Dimethylphthalate
Concen: 54.772 ng
RT: 13.948 min Scan# 1848
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:163 Resp: 413521

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	9.6	8.2	12.2

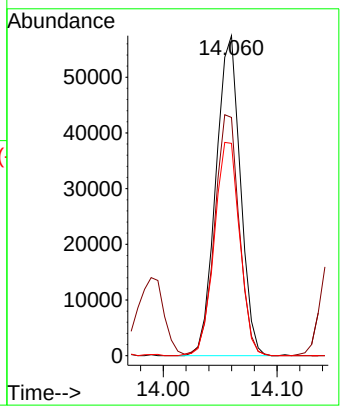




#51
2,6-Dinitrotoluene
Concen: 55.360 ng
RT: 14.060 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

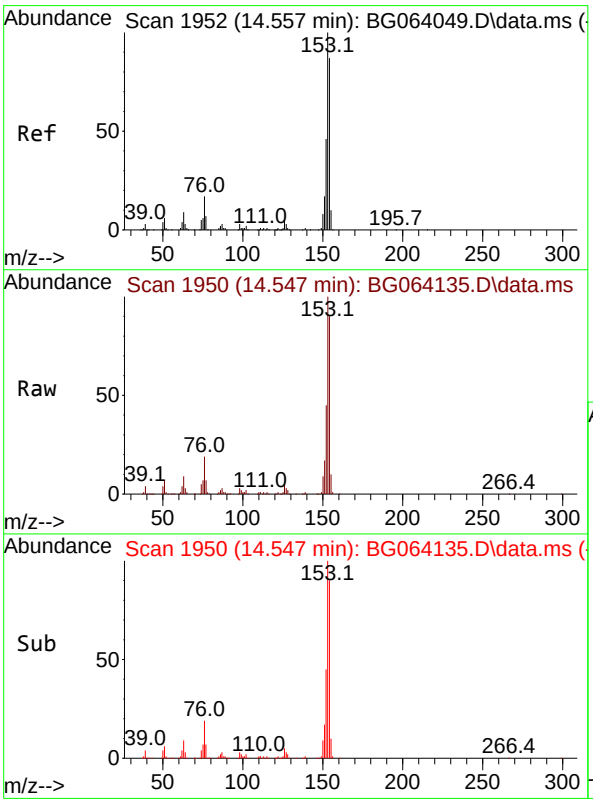
Tgt Ion:165 Resp: 8564

Ion	Ratio	Lower	Upper
165	100		
63	74.5	56.7	85.1
89	66.3	53.7	80.5



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

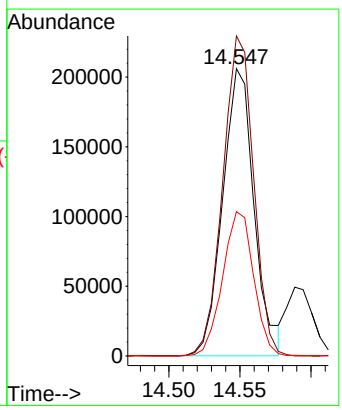
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

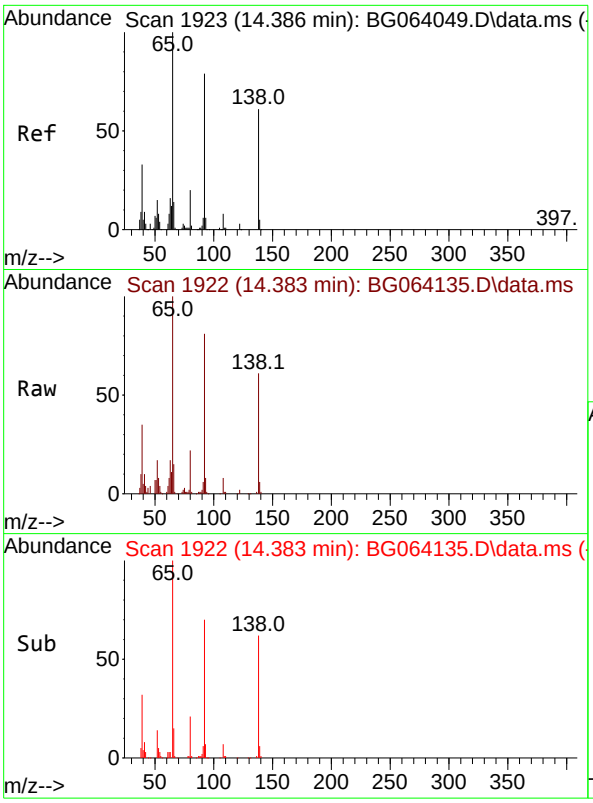


#52
Acenaphthene
Concen: 53.023 ng
RT: 14.547 min Scan# 1950
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:154 Resp: 317199

Ion	Ratio	Lower	Upper
154	100		
153	111.4	91.6	137.4
152	50.2	42.5	63.7

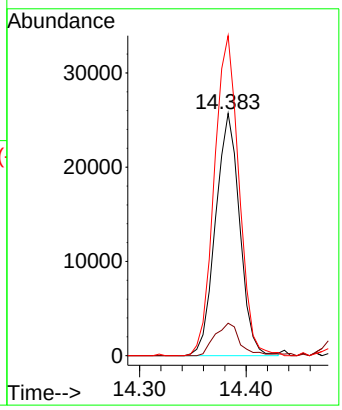




#53
3-Nitroaniline
Concen: 27.699 ng
RT: 14.383 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:138 Resp: 4041

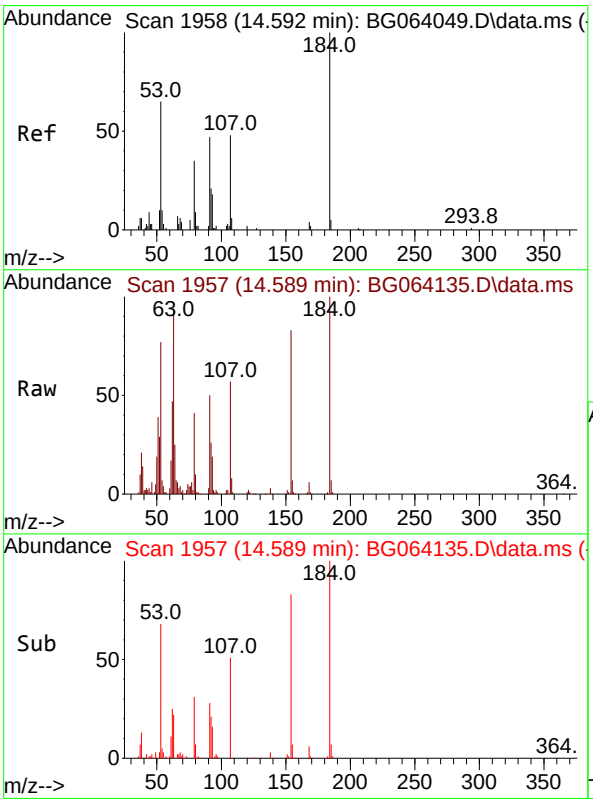
Ion	Ratio	Lower	Upper
138	100		
108	13.4	10.1	15.1
92	132.1	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

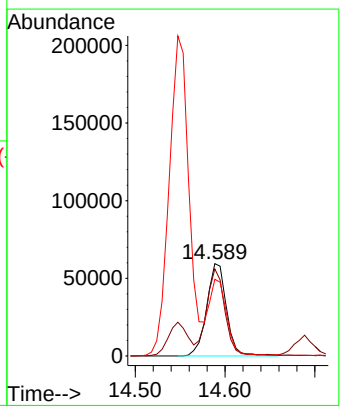
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

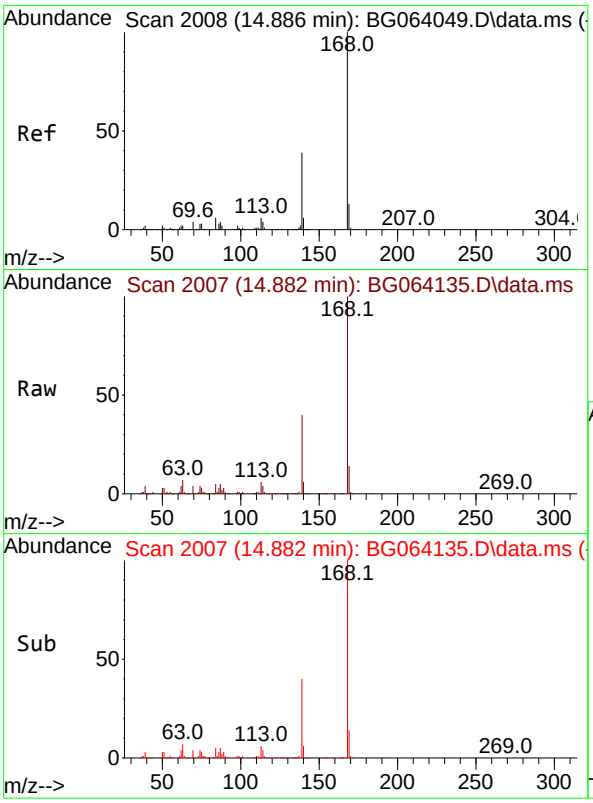


#54
2,4-Dinitrophenol
Concen: 136.095 ng
RT: 14.589 min Scan# 1957
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:184 Resp: 90826

Ion	Ratio	Lower	Upper
184	100		
63	94.4	57.5	86.3#
154	83.1	52.3	78.5#

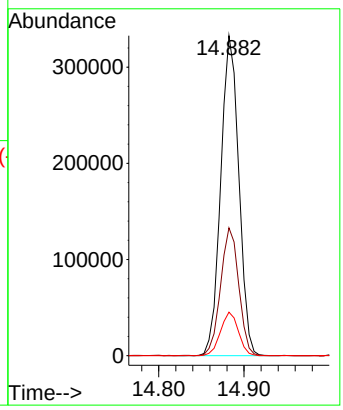




#55
Dibenzofuran
Concen: 50.643 ng
RT: 14.882 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:168 Resp: 49080

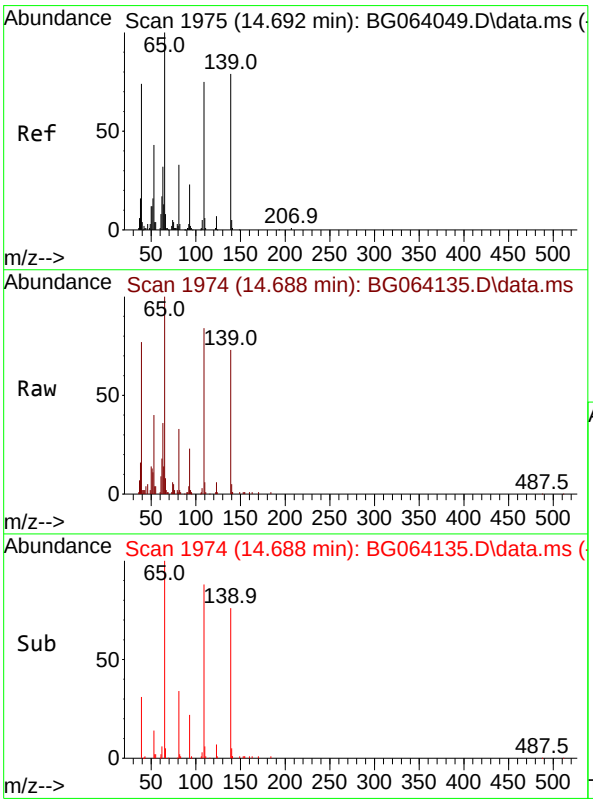
Ion	Ratio	Lower	Upper
168	100		
139	39.9	31.1	46.7
169	13.6	10.5	15.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

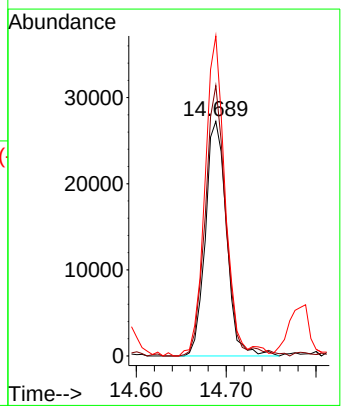
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

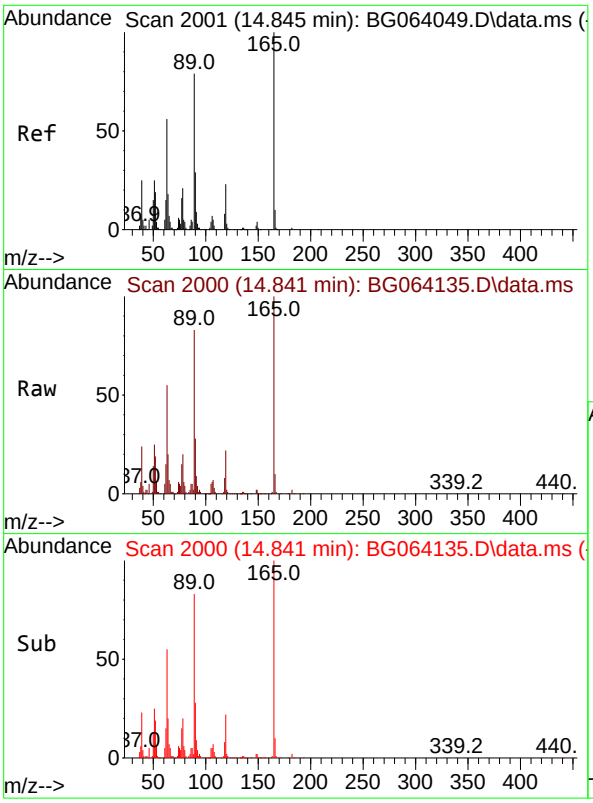


#56
4-Nitrophenol
Concen: 36.426 ng
RT: 14.688 min Scan# 1974
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:139 Resp: 44577

Ion	Ratio	Lower	Upper
139	100		
109	115.2	74.9	114.9#
65	136.4	106.8	146.8

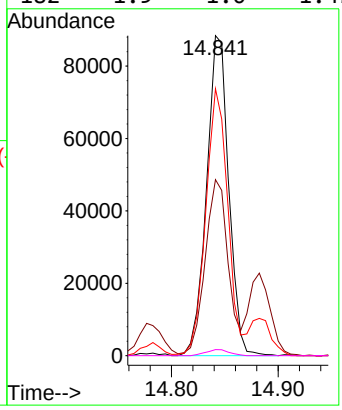




#57
2,4-Dinitrotoluene
Concen: 59.472 ng
RT: 14.841 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:165 Resp: 12768

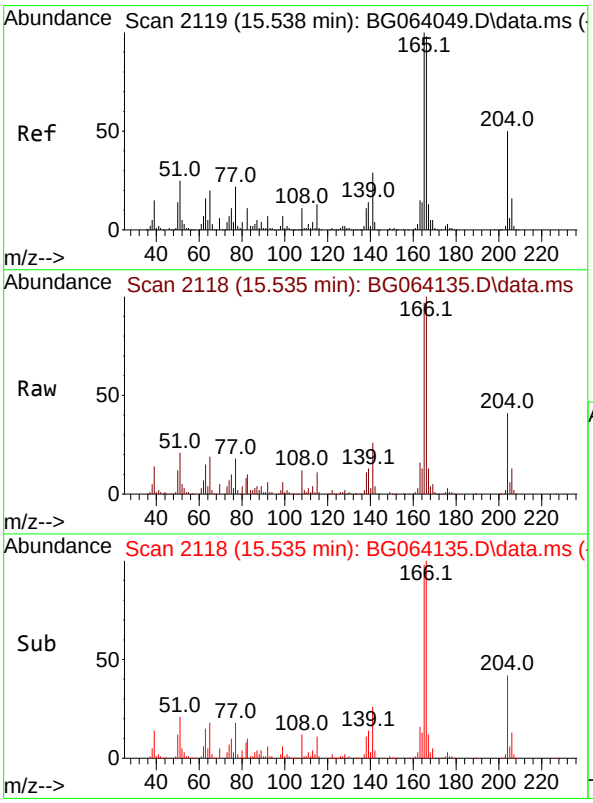
Ion	Ratio	Lower	Upper
165	100		
63	55.0	45.0	67.6
89	83.4	63.1	94.7
182	1.9	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

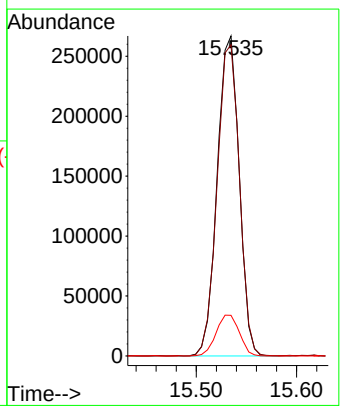
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

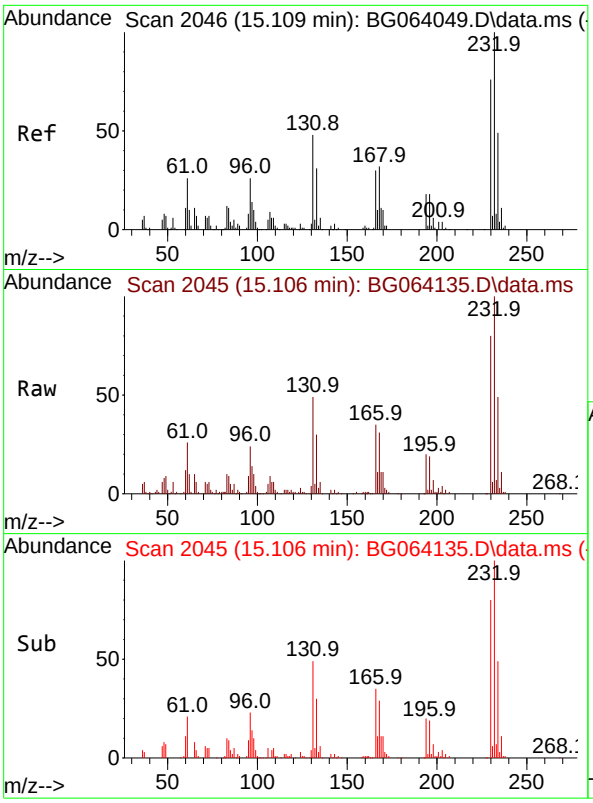


#58
Fluorene
Concen: 53.658 ng
RT: 15.535 min Scan# 2118
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:166 Resp: 405019

Ion	Ratio	Lower	Upper
166	100		
165	97.3	81.8	122.8
167	12.7	10.8	16.2

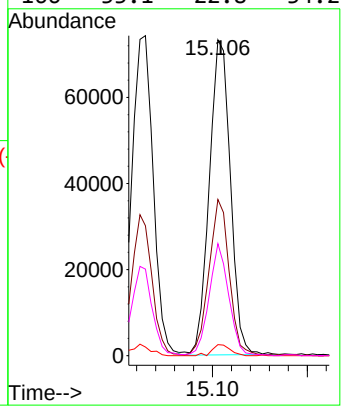




#59
2,3,4,6-Tetrachlorophenol
Concen: 60.895 ng
RT: 15.106 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

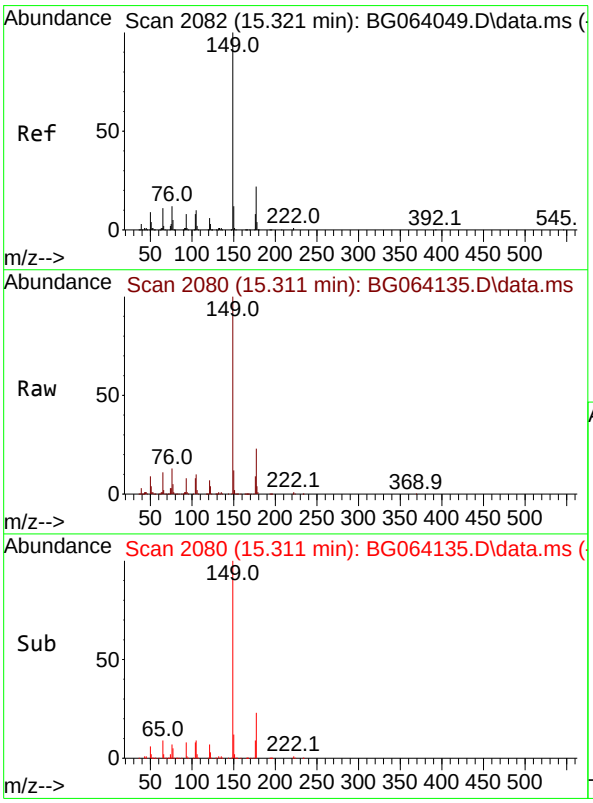
Tgt Ion:232 Resp: 11351

Ion	Ratio	Lower	Upper
232	100		
131	47.3	36.3	54.5
130	3.0	1.9	2.9
166	33.1	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

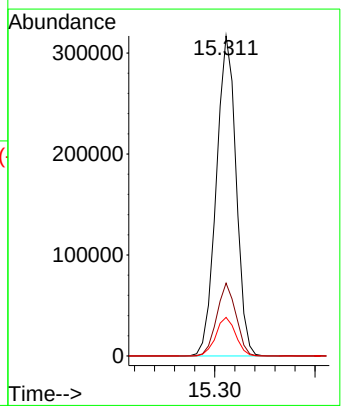
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

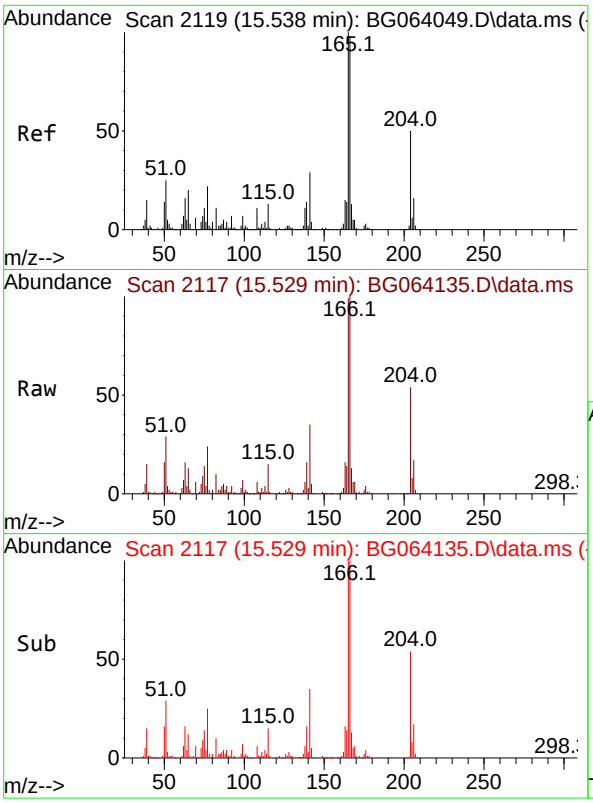


#60
Diethylphthalate
Concen: 52.918 ng
RT: 15.311 min Scan# 2080
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:149 Resp: 433728

Ion	Ratio	Lower	Upper
149	100		
177	22.8	17.4	26.2
150	12.1	9.4	14.2





#61
4-Chlorophenyl-phenylether
Concen: 51.139 ng
RT: 15.529 min Scan# 2
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

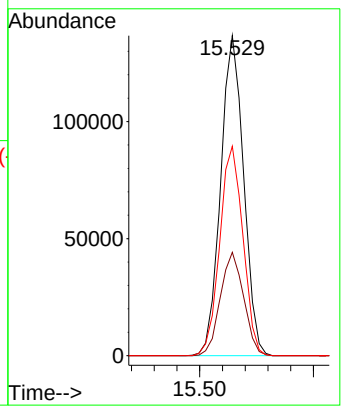
Tgt Ion:204 Resp: 19182

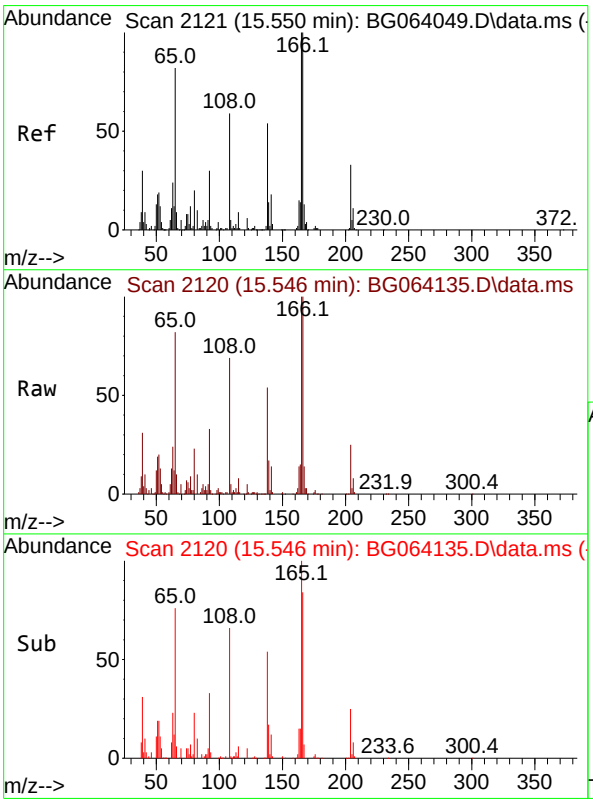
Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.5	38.3
141	65.4	45.4	68.0

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

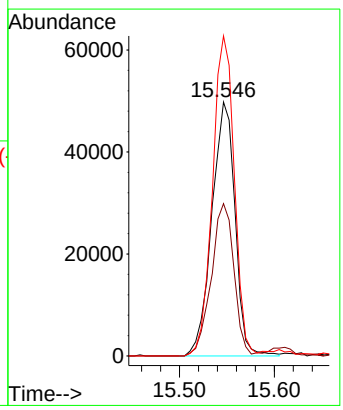


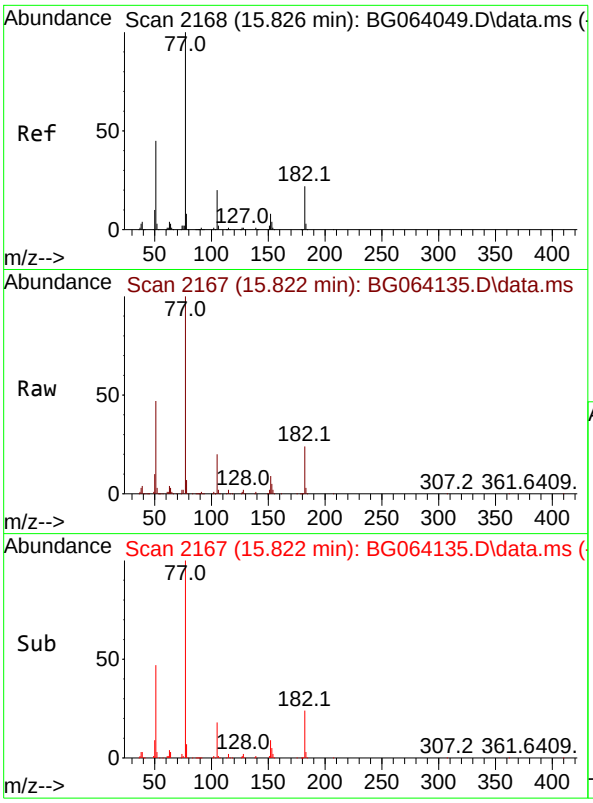


#62
4-Nitroaniline
Concen: 53.717 ng
RT: 15.546 min Scan# 2120
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:138 Resp: 84625

Ion	Ratio	Lower	Upper
138	100		
92	60.0	36.1	76.1
108	126.0	87.9	127.9

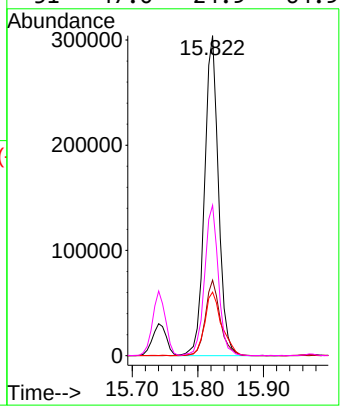




#63
Azobenzene
Concen: 51.402 ng
RT: 15.822 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion: 77 Resp: 44956

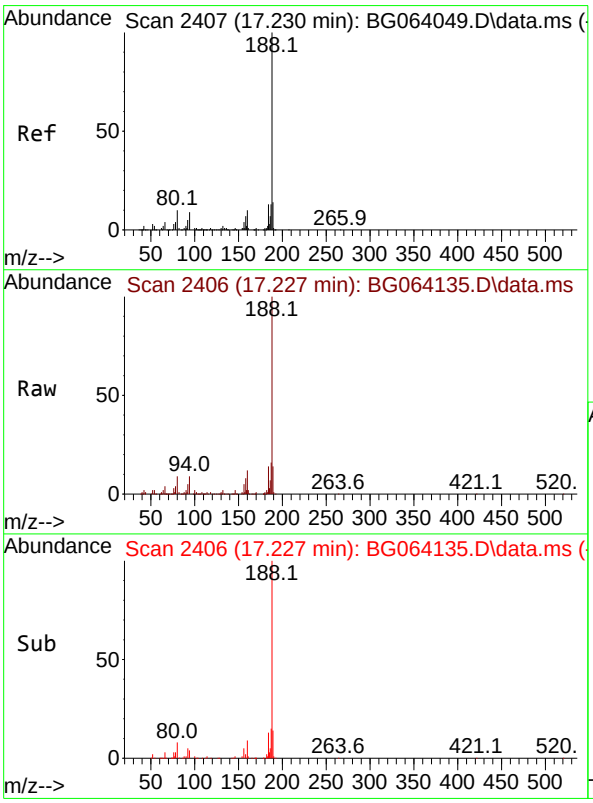
Ion	Ratio	Lower	Upper
77	100		
182	23.6	2.4	42.4
105	19.8	0.0	40.0
51	47.0	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

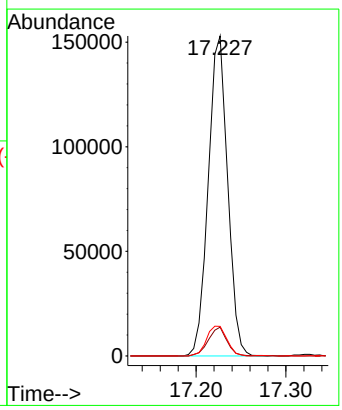
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

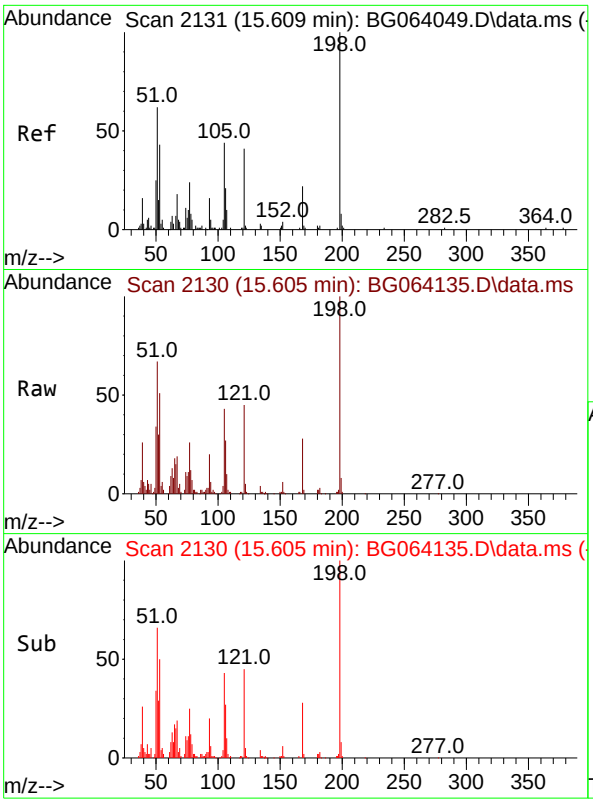


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:188 Resp: 228948

Ion	Ratio	Lower	Upper
188	100		
94	9.0	6.9	10.3
80	9.3	8.1	12.1





#65
4,6-Dinitro-2-methylphenol
Concen: 70.318 ng
RT: 15.605 min Scan# 21
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

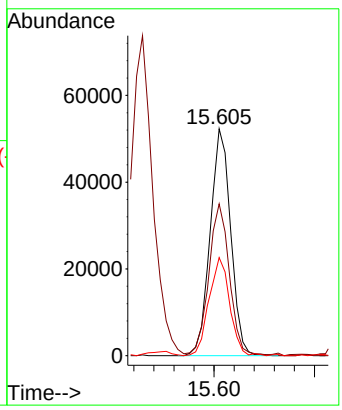
Tgt Ion:198 Resp: 7408

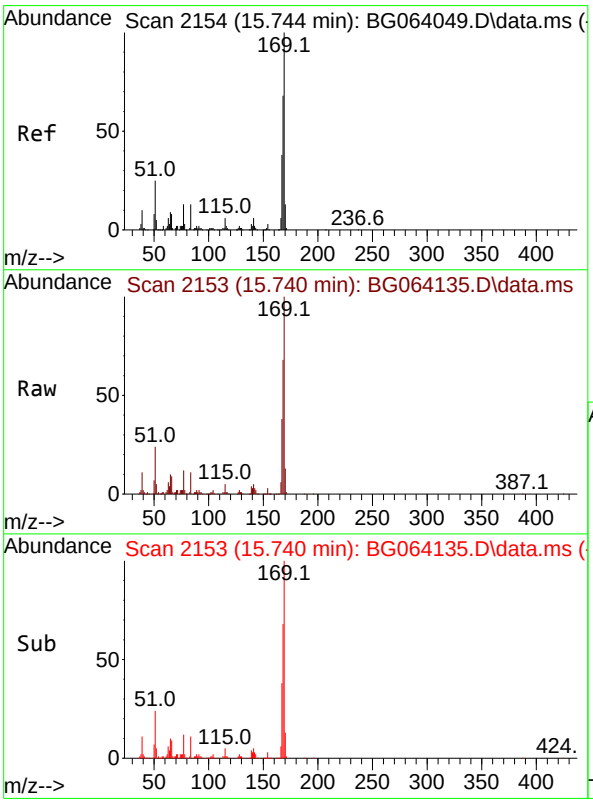
Ion	Ratio	Lower	Upper
198	100		
51	66.9	45.6	85.6
105	43.2	25.3	65.3

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

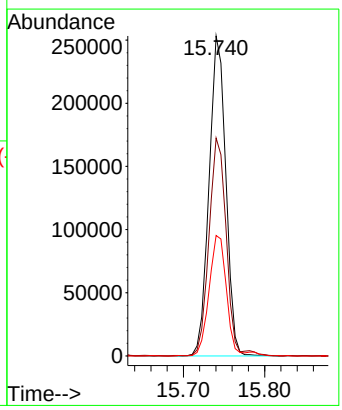


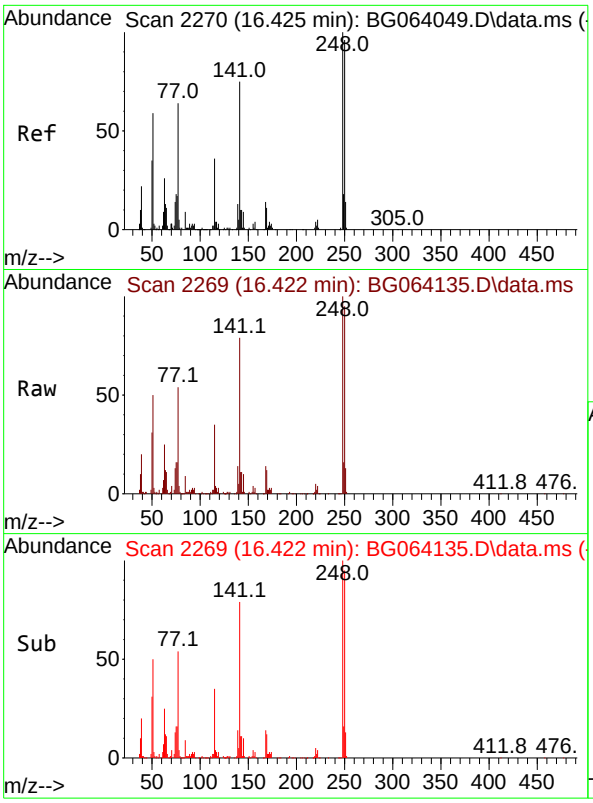


#66
n-Nitrosodiphenylamine
Concen: 55.908 ng
RT: 15.740 min Scan# 2153
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:169 Resp: 362322

Ion	Ratio	Lower	Upper
169	100		
168	68.1	54.1	81.1
167	37.6	30.3	45.5

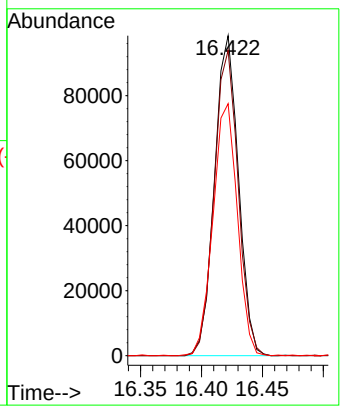




#67
4-Bromophenyl-phenylether
Concen: 57.375 ng
RT: 16.422 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:248 Resp: 13453

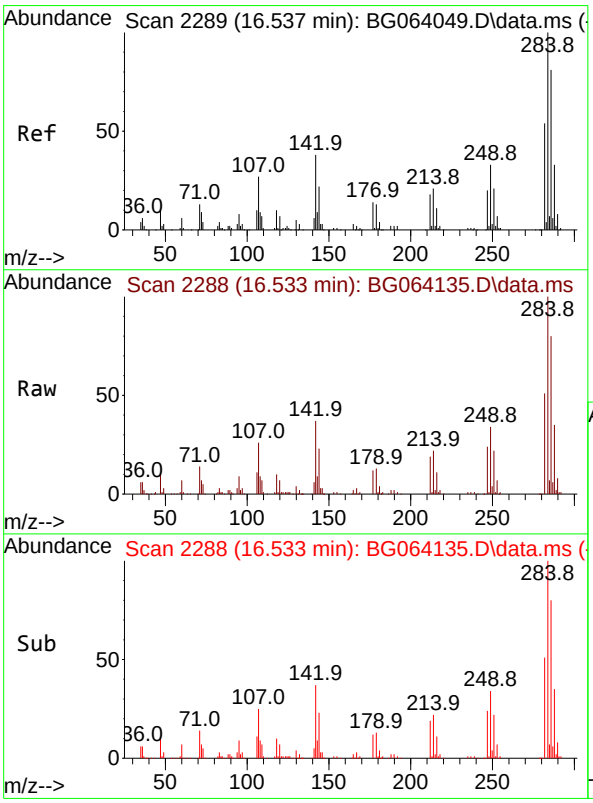
Ion	Ratio	Lower	Upper
248	100		
250	95.4	77.1	115.7
141	78.8	59.8	89.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

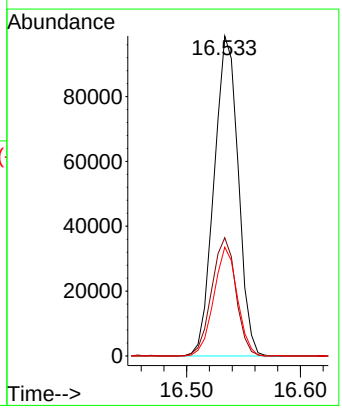
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

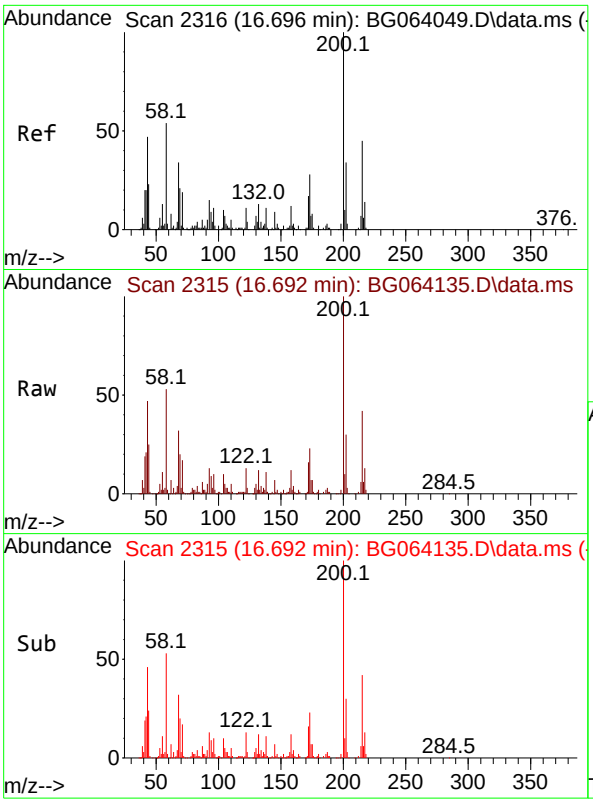


#68
Hexachlorobenzene
Concen: 55.446 ng
RT: 16.533 min Scan# 2288
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:284 Resp: 145556

Ion	Ratio	Lower	Upper
284	100		
142	37.0	30.6	45.8
249	34.0	26.6	39.8

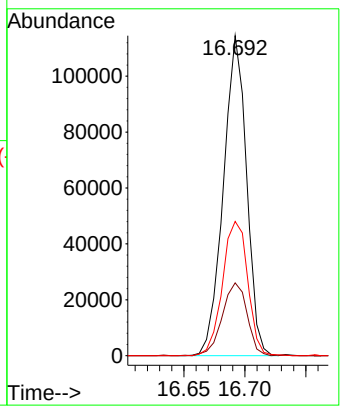




#69
Atrazine
Concen: 79.291 ng
RT: 16.692 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:200 Resp: 15119

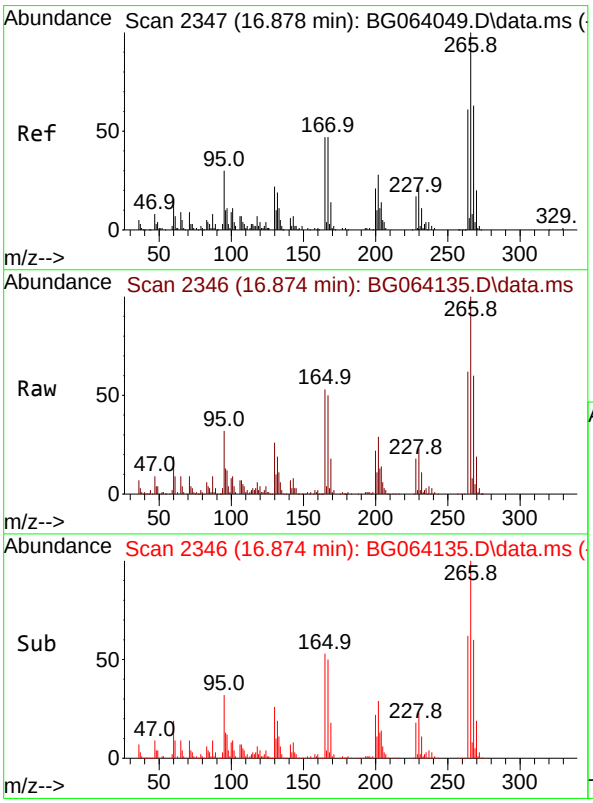
Ion	Ratio	Lower	Upper
200	100		
173	22.8	8.2	48.2
215	42.0	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

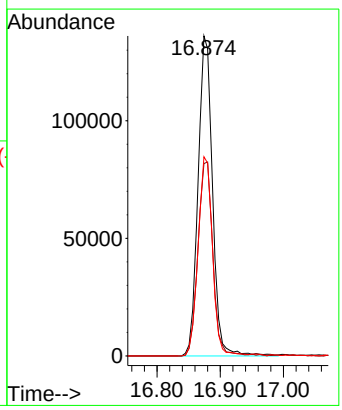
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

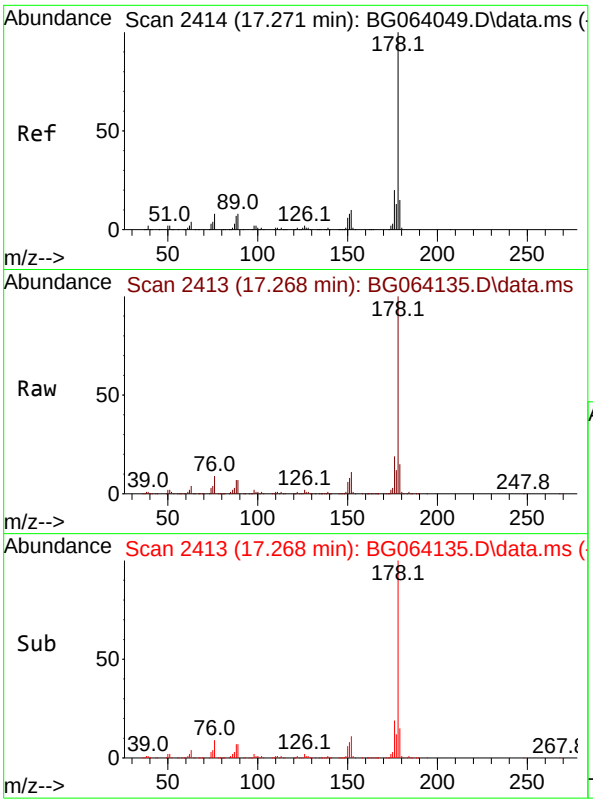


#70
Pentachlorophenol
Concen: 132.509 ng
RT: 16.874 min Scan# 2346
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:266 Resp: 215982

Ion	Ratio	Lower	Upper
266	100		
268	60.2	50.2	75.4
264	62.3	48.9	73.3





#71
Phenanthrene
Concen: 56.747 ng
RT: 17.268 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

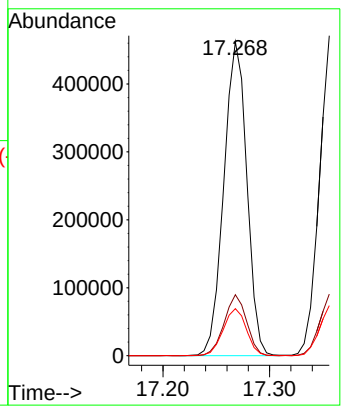
Tgt Ion:178 Resp: 69297

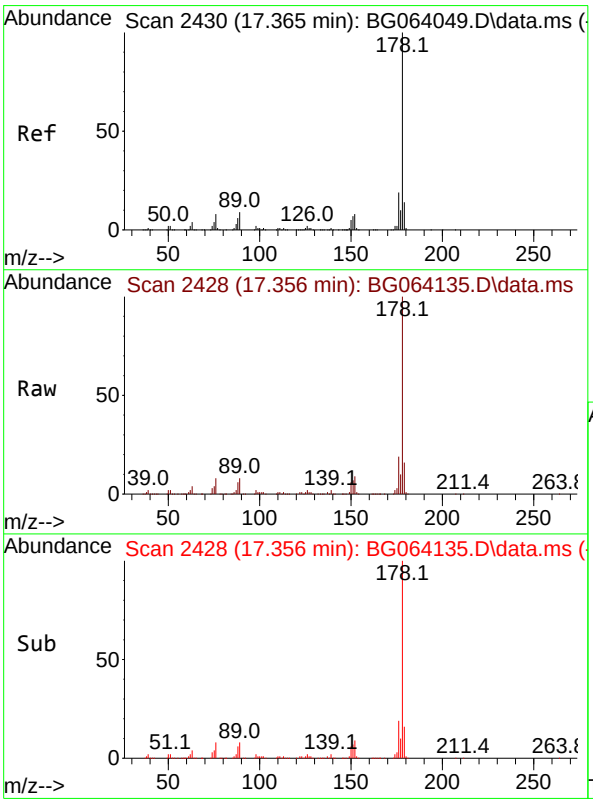
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.9	23.9
179	15.0	12.2	18.2

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

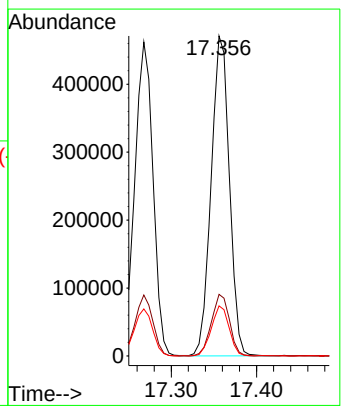


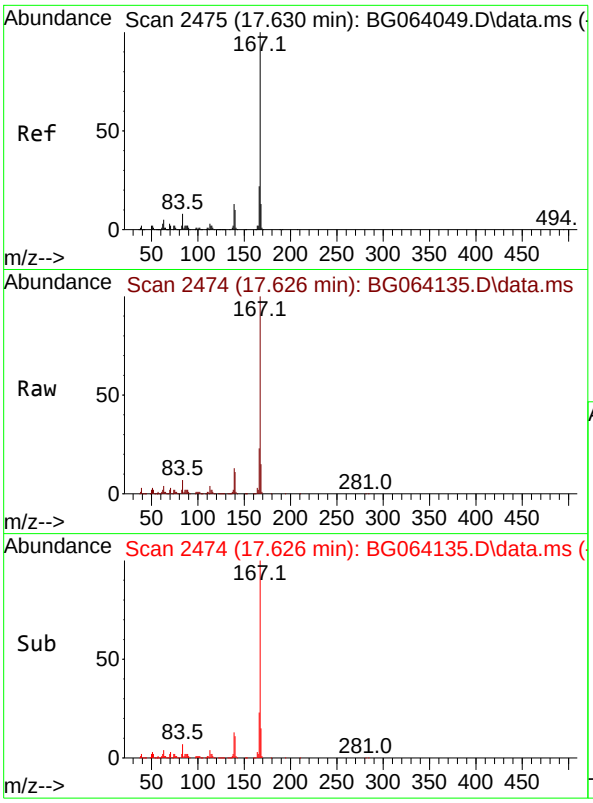


#72
Anthracene
Concen: 57.590 ng
RT: 17.356 min Scan# 2428
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:178 Resp: 699296

Ion	Ratio	Lower	Upper
178	100		
176	19.3	14.8	22.2
179	15.7	11.5	17.3

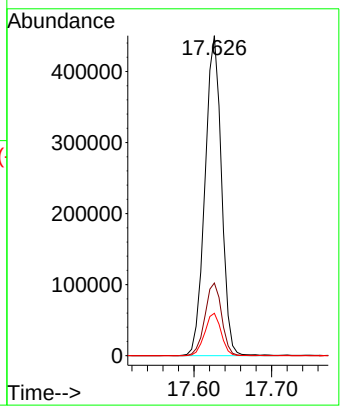




#73
Carbazole
Concen: 58.686 ng
RT: 17.626 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:167 Resp: 66533

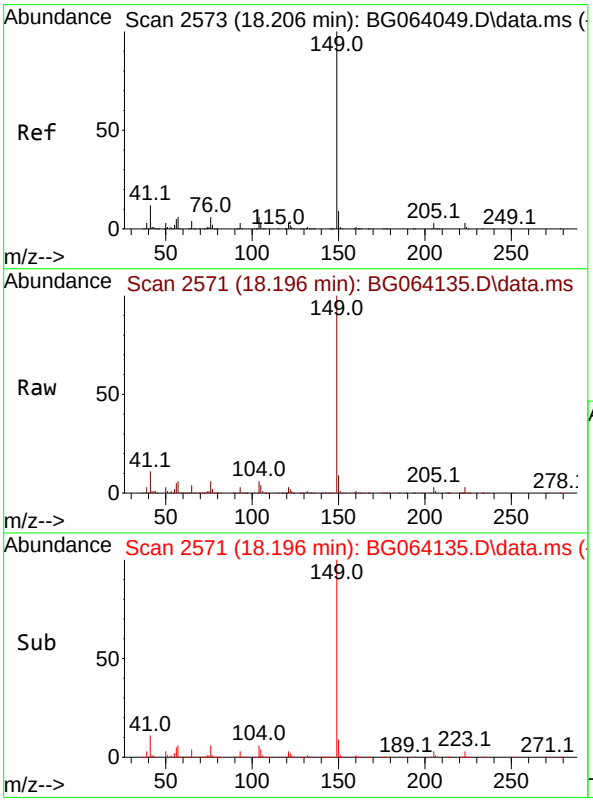
Ion	Ratio	Lower	Upper
167	100		
166	22.7	18.0	27.0
139	13.2	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

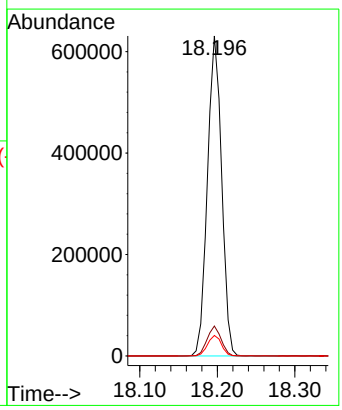
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

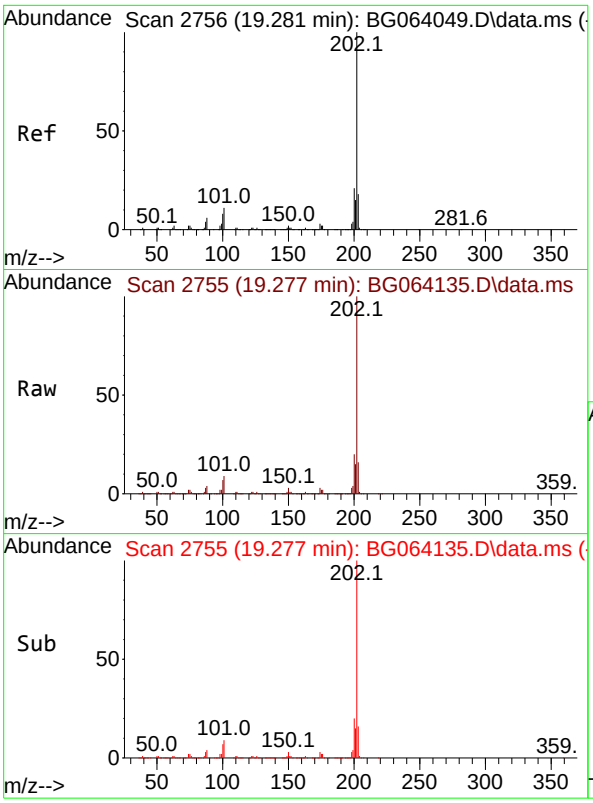


#74
Di-n-butylphthalate
Concen: 60.035 ng
RT: 18.196 min Scan# 2571
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:149 Resp: 801167

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.0
104	6.4	5.0	7.6

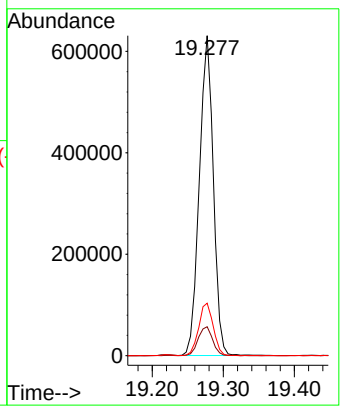




#75
Fluoranthene
Concen: 58.810 ng
RT: 19.277 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:202 Resp: 86579

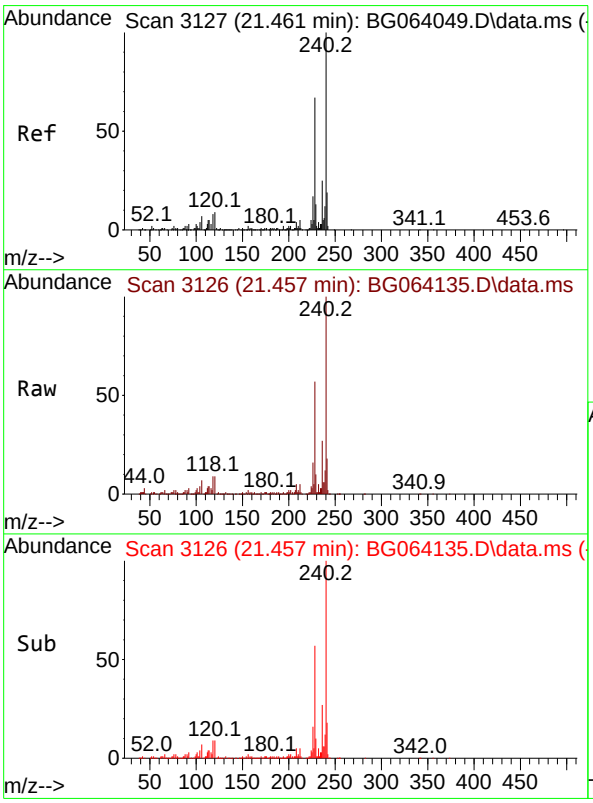
Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	30.5
203	16.4	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

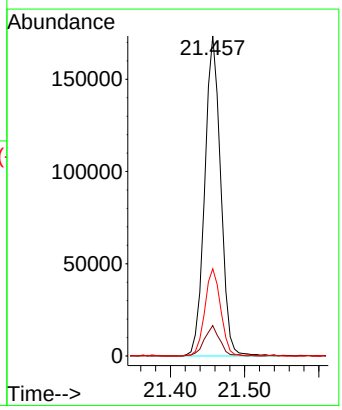
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

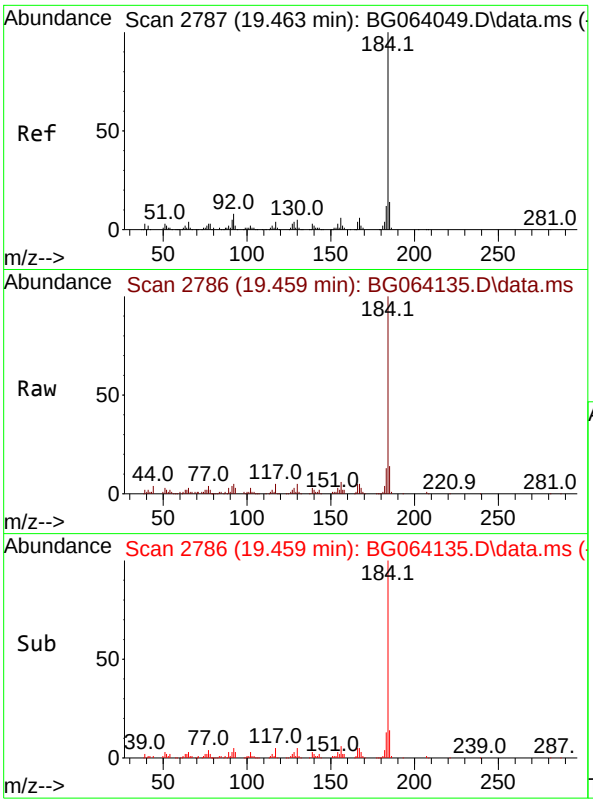


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:240 Resp: 259874

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.2	10.8
236	27.2	20.2	30.2

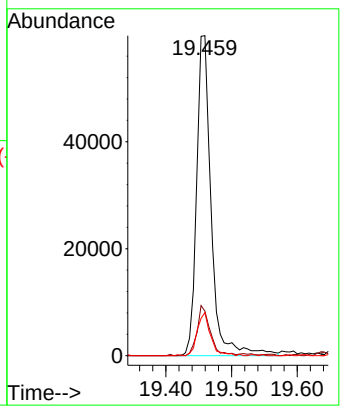




#77
Benzidine
Concen: 25.725 ng
RT: 19.459 min Scan# 2
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:184 Resp: 9257

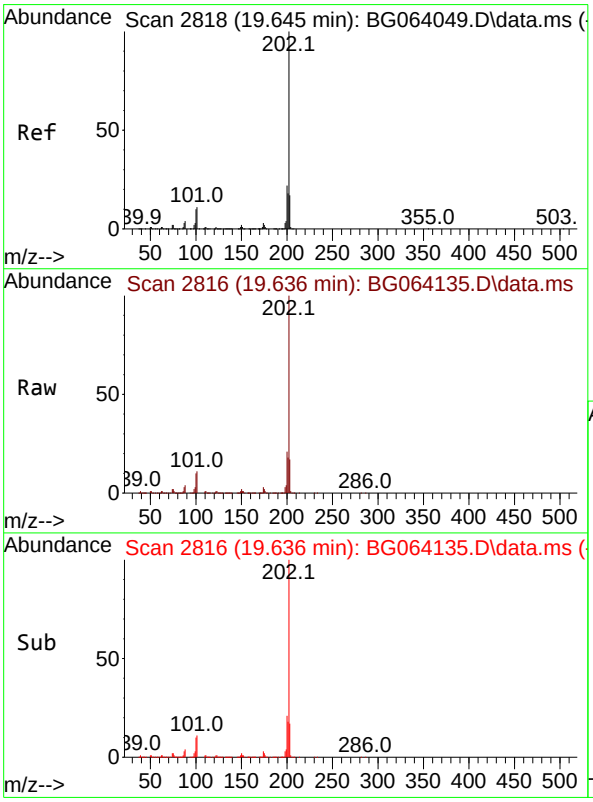
Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.3	16.9
183	13.5	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

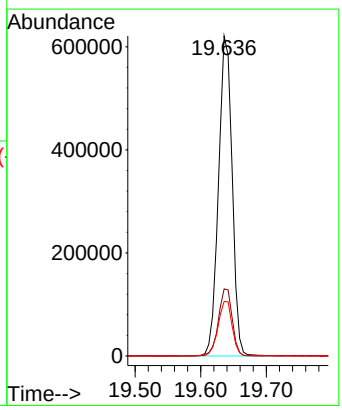
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

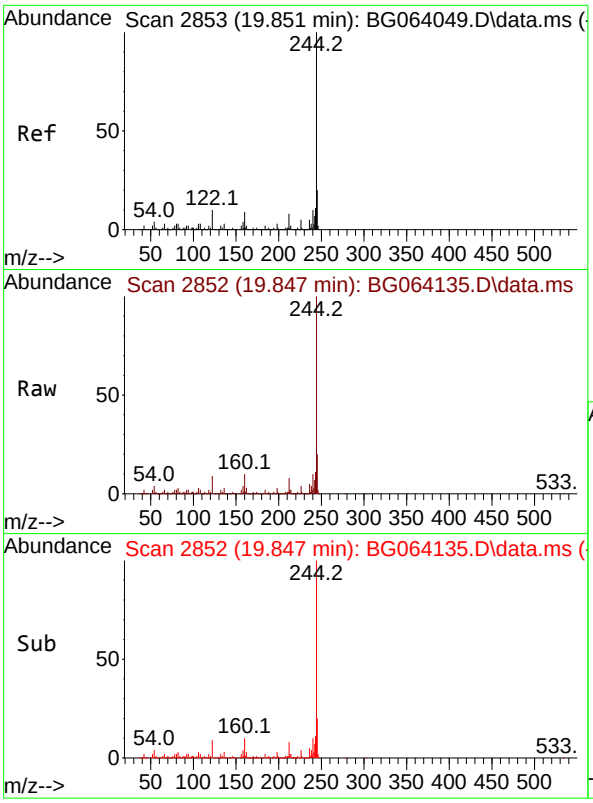


#78
Pyrene
Concen: 53.312 ng
RT: 19.636 min Scan# 2816
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:202 Resp: 893089

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	17.0	13.6	20.4

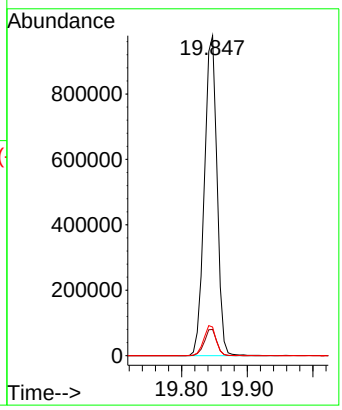




#79
Terphenyl-d14
Concen: 101.982 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:244 Resp: 131070

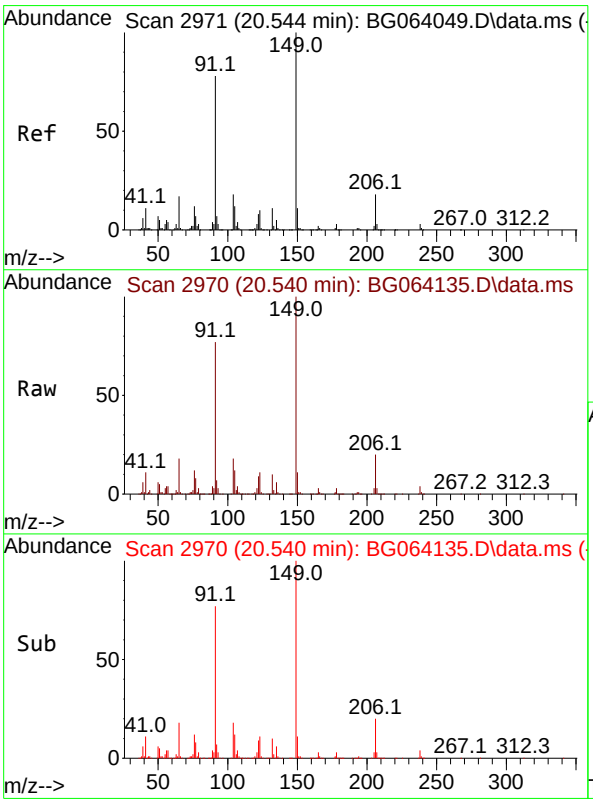
Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.2	9.4
122	9.0	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

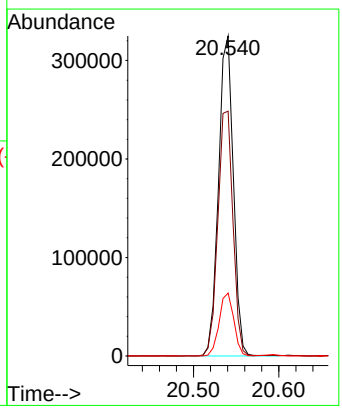
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

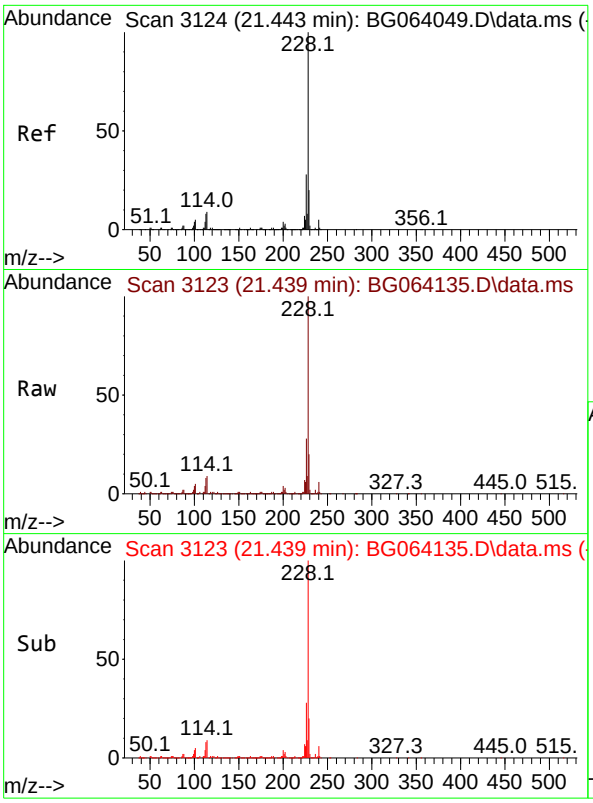


#80
Butylbenzylphthalate
Concen: 61.422 ng
RT: 20.540 min Scan# 2970
Delta R.T. -0.004 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:149 Resp: 393024

Ion	Ratio	Lower	Upper
149	100		
91	76.5	62.0	93.0
206	19.6	14.6	21.8

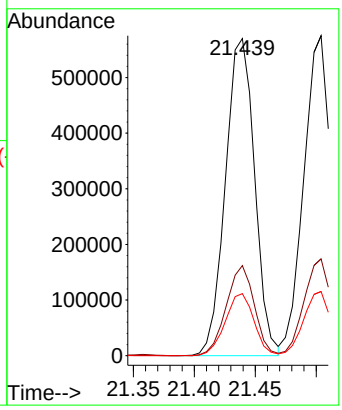




#81
Benzo(a)anthracene
Concen: 57.198 ng
RT: 21.439 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:228 Resp: 95215

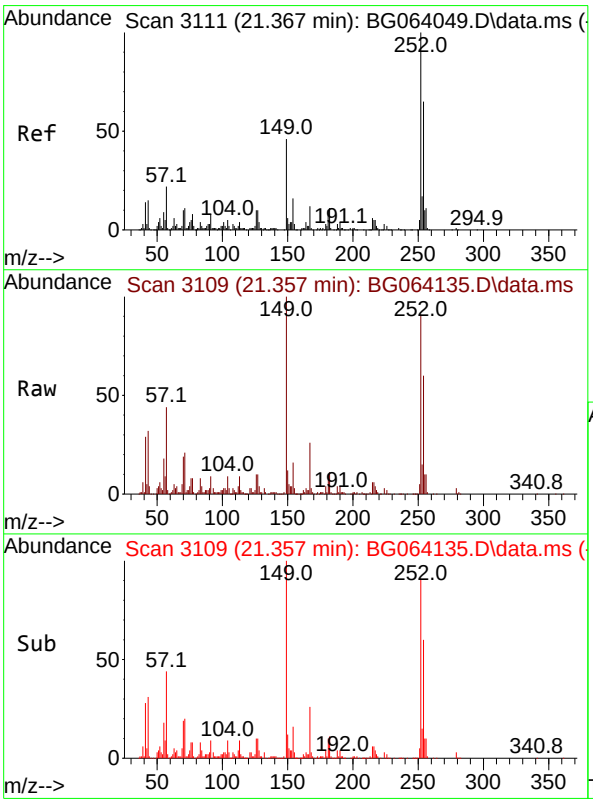
Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.2	33.2
229	19.6	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

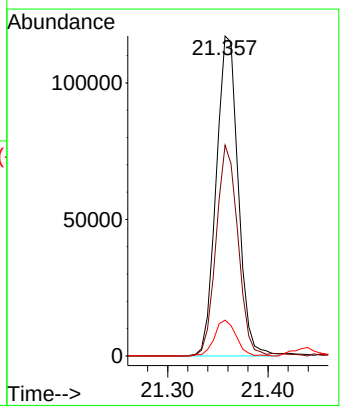
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

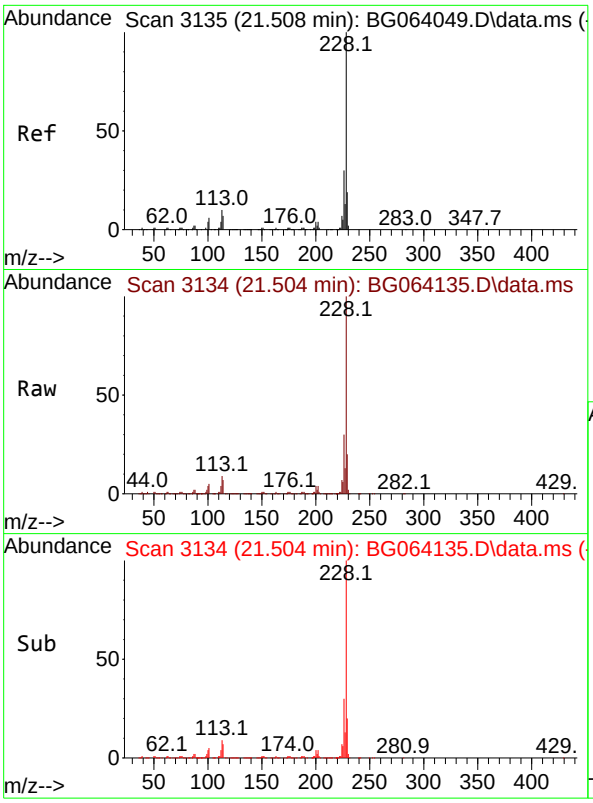


#82
3,3'-Dichlorobenzidine
Concen: 33.046 ng
RT: 21.357 min Scan# 3109
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:252 Resp: 178034

Ion	Ratio	Lower	Upper
252	100		
254	65.9	52.1	78.1
126	11.2	7.8	11.8

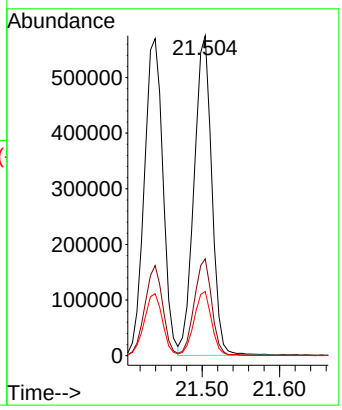




#83
Chrysene
Concen: 54.755 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:228 Resp: 90909

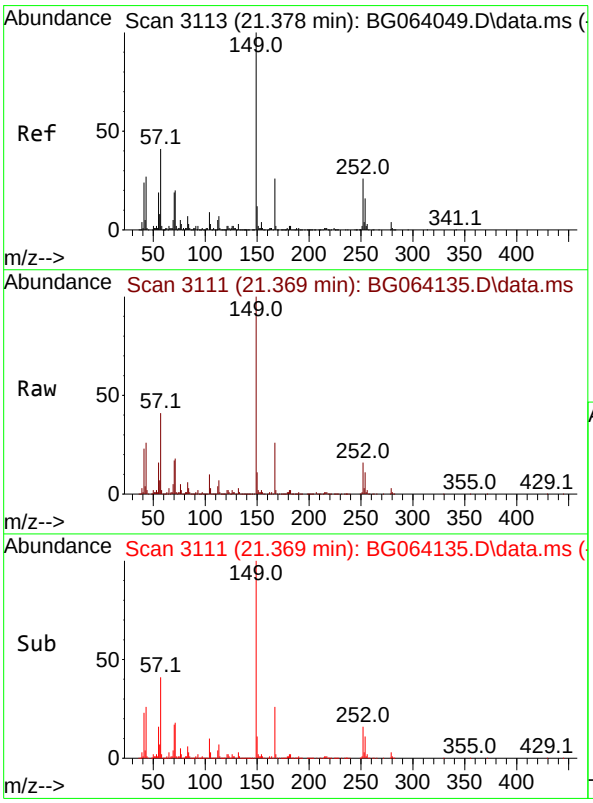
Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	20.0	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

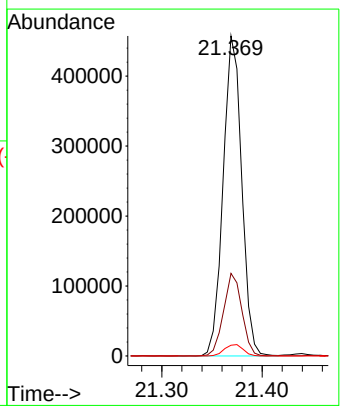
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

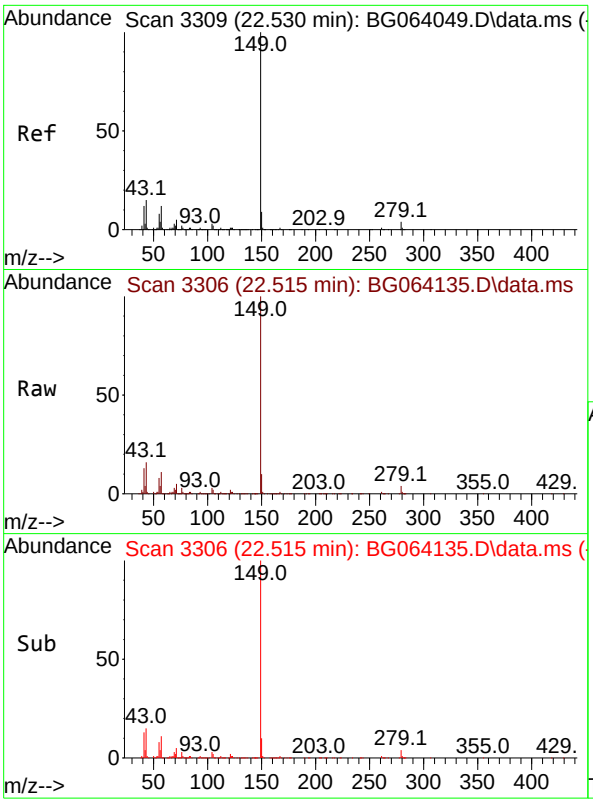


#84
Bis(2-ethylhexyl)phthalate
Concen: 65.277 ng
RT: 21.369 min Scan# 3111
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:149 Resp: 587683

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.0	31.6
279	3.4	2.8	4.2





#85
Di-n-octyl phthalate
Concen: 64.835 ng
RT: 22.515 min Scan# 3
Delta R.T. -0.015 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

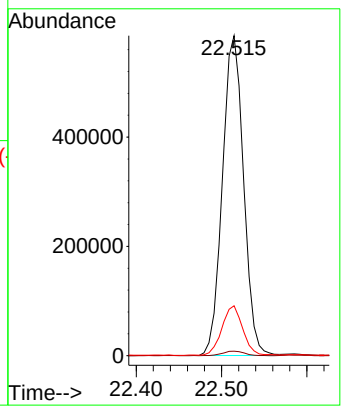
Tgt Ion:149 Resp: 100679

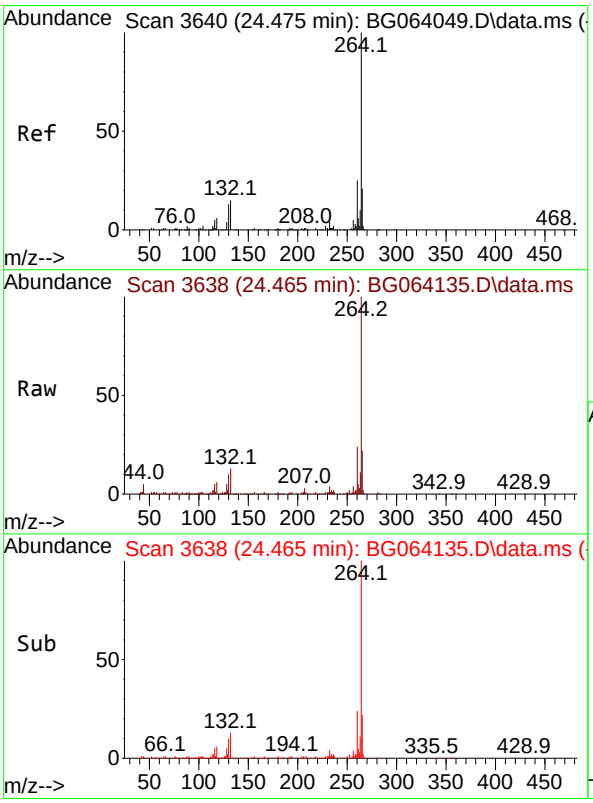
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	15.3	12.6	19.0

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

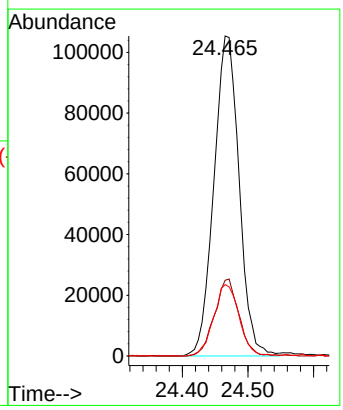


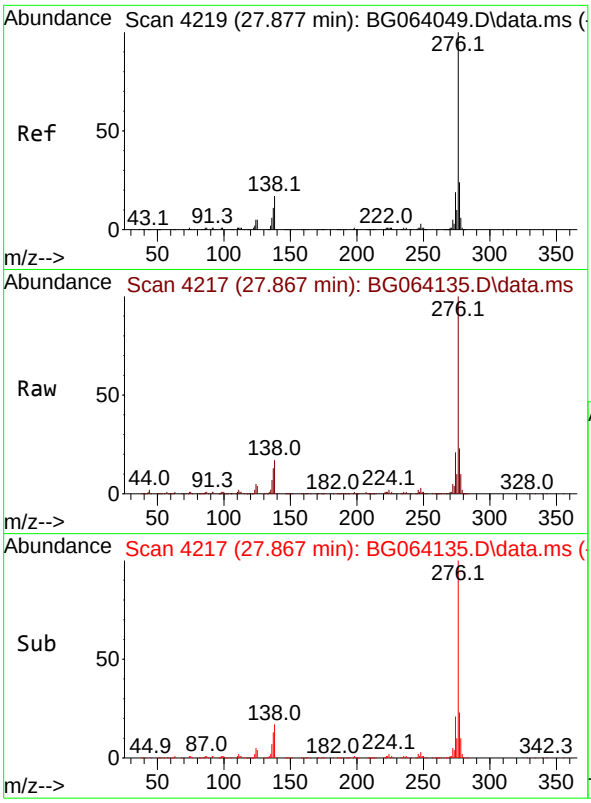


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.465 min Scan# 3638
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:264 Resp: 281028

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.6	29.4
265	22.3	16.6	25.0

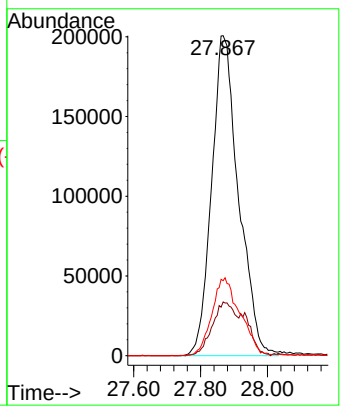




#87
Indeno(1,2,3-cd)pyrene
Concen: 59.723 ng
RT: 27.867 min Scan# 4
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:276 Resp: 112297

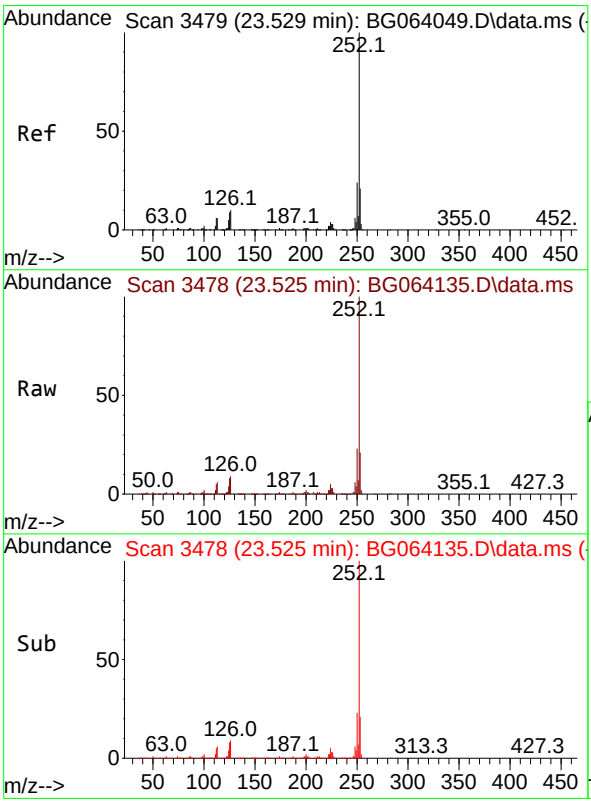
Ion	Ratio	Lower	Upper
276	100		
138	14.7	12.1	18.1
277	25.5	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations
APPROVED

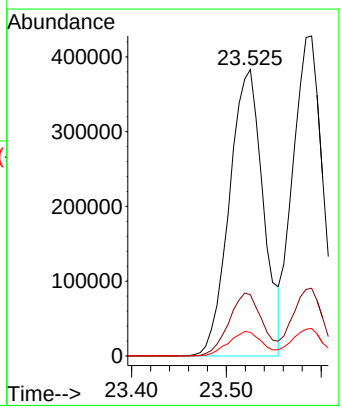
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

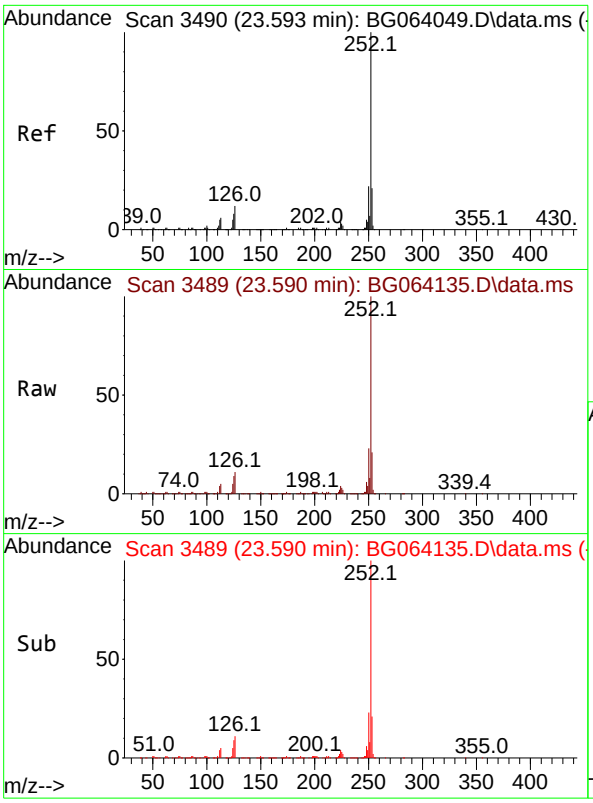


#88
Benzo(b)fluoranthene
Concen: 56.024 ng
RT: 23.525 min Scan# 3478
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:252 Resp: 951807

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.0	25.4
125	8.3	7.4	11.2

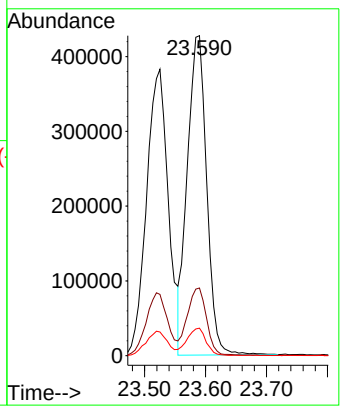




#89
Benzo(k)fluoranthene
Concen: 55.411 ng
RT: 23.590 min Scan# 34
Delta R.T. -0.003 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

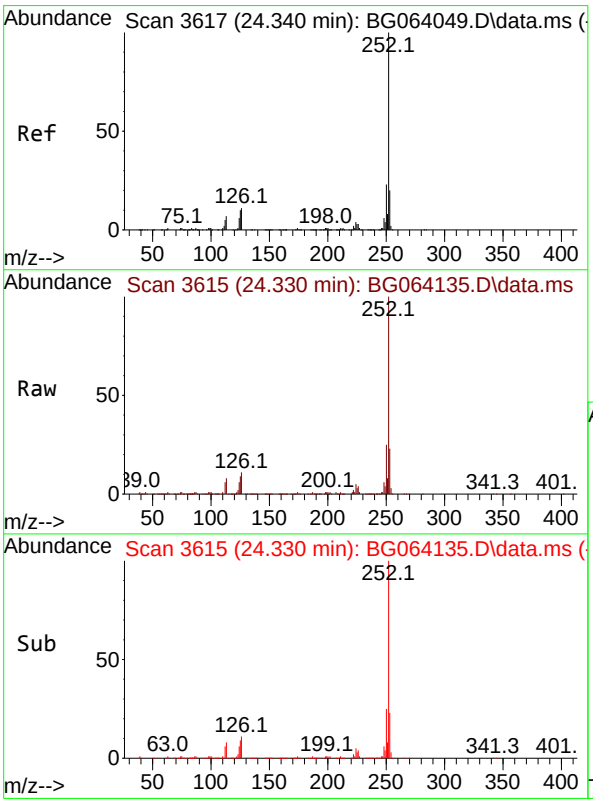
Tgt Ion:252 Resp: 94441

Ion	Ratio	Lower	Upper
252	100		
253	21.1	16.8	25.2
125	8.6	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

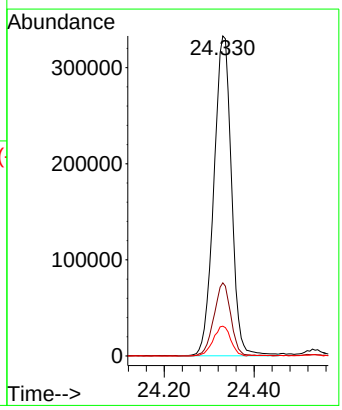
Manual Integrations
APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

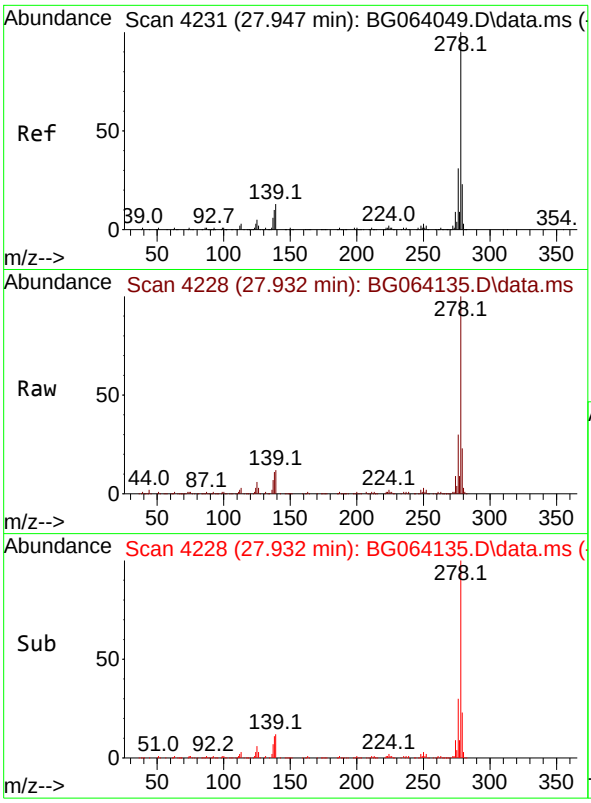


#90
Benzo(a)pyrene
Concen: 60.023 ng
RT: 24.330 min Scan# 3615
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:252 Resp: 908180

Ion	Ratio	Lower	Upper
252	100		
253	22.9	16.2	24.2
125	9.3	7.8	11.6

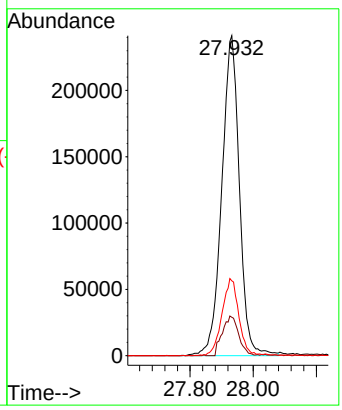




#91
Dibenzo(a,h)anthracene
Concen: 59.974 ng
RT: 27.932 min Scan# 4
Delta R.T. -0.015 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:278 Resp: 93488

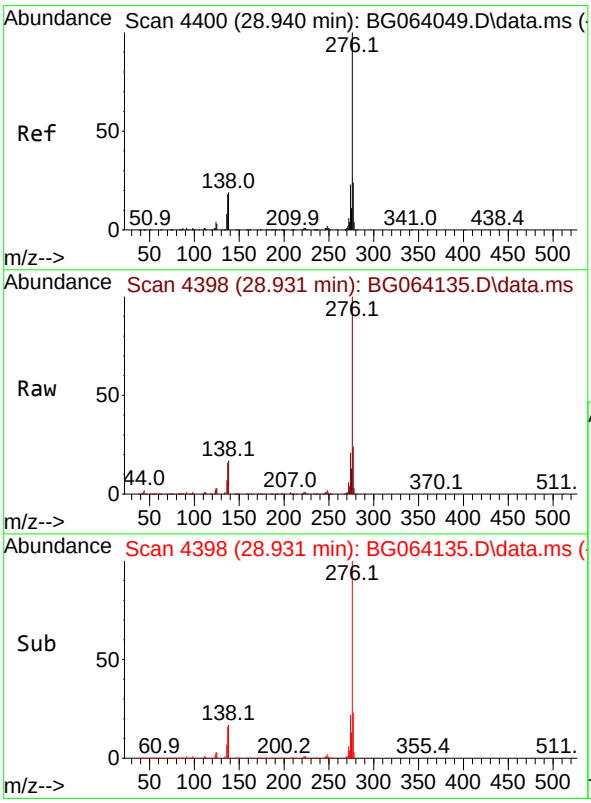
Ion	Ratio	Lower	Upper
278	100		
139	12.0	10.2	15.2
279	23.4	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-05MS

Manual Integrations APPROVED

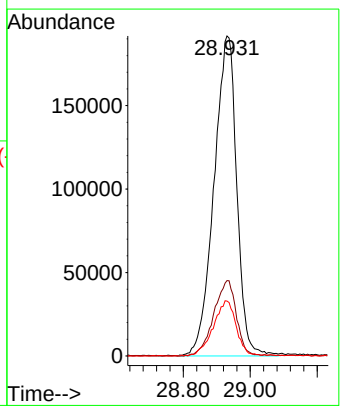
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#92
Benzo(g,h,i)perylene
Concen: 56.698 ng
RT: 28.931 min Scan# 4398
Delta R.T. -0.009 min
Lab File: BG064135.D
Acq: 1 Apr 2025 15:03

Tgt Ion:276 Resp: 907435

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.5	29.3
138	17.1	15.4	23.0



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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-06MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064136.D	1	03/31/25 11:00	04/01/25 15:44	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	51.2		3.90	10.0	ug/L
108-95-2	Phenol	13.8		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	47.0		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.2		0.58	5.00	ug/L
95-48-7	2-Methylphenol	35.2		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	47.3		1.30	5.00	ug/L
98-86-2	Acetophenone	51.4		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	30.6		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	53.0		1.40	2.50	ug/L
67-72-1	Hexachloroethane	38.4		0.65	5.00	ug/L
98-95-3	Nitrobenzene	56.9		0.76	5.00	ug/L
78-59-1	Isophorone	56.1		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	60.6		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	67.8		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	51.4		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	55.7		0.52	5.00	ug/L
91-20-3	Naphthalene	46.6		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	21.6		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.7		0.54	5.00	ug/L
105-60-2	Caprolactam	10.2		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	49.7		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.8		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	240	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	63.4		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	62.4		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	54.2		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	53.6		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	62.1		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	57.2		0.61	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-06MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064136.D	1	03/31/25 11:00	04/01/25 15:44	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	59.4		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	60.0		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	30.5		1.10	5.00	ug/L
83-32-9	Acenaphthene	53.7		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	150	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	40.0		2.40	10.0	ug/L
132-64-9	Dibenzofuran	52.5		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	62.7		1.20	5.00	ug/L
84-66-2	Diethylphthalate	56.3		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	54.2		0.68	5.00	ug/L
86-73-7	Fluorene	56.1		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	59.3		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	71.3		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	55.7		0.58	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	57.3		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	56.1		0.52	5.00	ug/L
1912-24-9	Atrazine	82.2	E	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	130	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	58.2		0.50	5.00	ug/L
120-12-7	Anthracene	59.1		0.61	5.00	ug/L
86-74-8	Carbazole	60.3		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	62.3		1.20	5.00	ug/L
206-44-0	Fluoranthene	58.6		0.82	5.00	ug/L
129-00-0	Pyrene	54.7		0.50	5.00	ug/L
85-68-7	Butylbenzylphthalate	61.7		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.8		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	57.9		0.45	5.00	ug/L
218-01-9	Chrysene	54.8		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	65.1		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	65.5		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	54.7		0.49	5.00	ug/L

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	03/26/25
Project:	RFP 905	Date Received:	03/27/25
Client Sample ID:	P001-BBDGA-001-01-06MSD	SDG No.:	Q1664
Lab Sample ID:	Q1664-06MSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG064136.D	1	03/31/25 11:00	04/01/25 15:44	PB167393

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	55.7		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	59.9		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	59.3		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	59.0		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	56.3		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	51.7		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	16.0		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	64.5		0.72	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	62.2		10 - 139	41%	SPK: 150
13127-88-3	Phenol-d6	35.4		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	117		49 - 133	117%	SPK: 100
321-60-8	2-Fluorobiphenyl	105		52 - 132	105%	SPK: 100
118-79-6	2,4,6-Tribromophenol	194		44 - 137	129%	SPK: 150
1718-51-0	Terphenyl-d14	105		48 - 125	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32400	7.864			
1146-65-2	Naphthalene-d8	142000	10.649			
15067-26-2	Acenaphthene-d10	97600	14.486			
1517-22-2	Phenanthrene-d10	230000	17.224			
1719-03-5	Chrysene-d12	254000	21.454			
1520-96-3	Perylene-d12	279000	24.462			

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064136.D
Acq On : 1 Apr 2025 15:44
Operator : RC/JU
Sample : Q1664-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 01 16:29:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	32445	20.000	ng		0.00
21) Naphthalene-d8	10.649	136	141900	20.000	ng		0.00
39) Acenaphthene-d10	14.486	164	97582	20.000	ng		0.00
64) Phenanthrene-d10	17.224	188	230185	20.000	ng		0.00
76) Chrysene-d12	21.454	240	254217	20.000	ng		0.00
86) Perylene-d12	24.462	264	279147	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.449	112	129339	62.246	ng		0.00
7) Phenol-d6	7.024	99	100183	35.441	ng		0.00
23) Nitrobenzene-d5	9.010	82	299411	116.603	ng		0.00
42) 2,4,6-Tribromophenol	15.972	330	210031	193.632	ng		0.00
45) 2-Fluorobiphenyl	13.111	172	672154	104.553	ng		0.00
79) Terphenyl-d14	19.844	244	1323945	105.304	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.369	88	15089	16.023	ng		93
3) Pyridine	3.757	79	40455	17.664	ng		95
4) n-Nitrosodimethylamine	3.669	42	30671	18.744	ng		98
6) Aniline	7.182	93	69093	24.909	ng		95
8) 2-Chlorophenol	7.423	128	94084	42.159	ng		96
9) Benzaldehyde	7.000	77	84183	51.206	ng		97
10) Phenol	7.047	94	40002	13.822	ng		95
11) bis(2-Chloroethyl)ether	7.282	93	106739	47.043	ng		95
12) 1,3-Dichlorobenzene	7.752	146	91380	37.288	ng		97
13) 1,4-Dichlorobenzene	7.899	146	95852	38.159	ng		97
14) 1,2-Dichlorobenzene	8.211	146	96765	39.950	ng		97
15) Benzyl Alcohol	8.093	79	78176	35.789	ng		93
16) 2,2'-oxybis(1-Chloropr...	8.387	45	241066m	47.251	ng		
17) 2-Methylphenol	8.299	107	67636	35.212	ng		94
18) Hexachloroethane	8.939	117	33724	38.373	ng		94
19) n-Nitroso-di-n-propyla...	8.663	70	105081	52.969	ng		95
20) 3+4-Methylphenols	8.622	107	80940	30.609	ng		95
22) Acetophenone	8.675	105	199860	51.370	ng	#	96
24) Nitrobenzene	9.051	77	151097	56.939	ng		97
25) Isophorone	9.580	82	288079	56.052	ng		96
26) 2-Nitrophenol	9.762	139	58921	60.582	ng	#	92
27) 2,4-Dimethylphenol	9.826	122	104437	67.783	ng		97
28) bis(2-Chloroethoxy)met...	10.061	93	160057	51.367	ng		98
29) 2,4-Dichlorophenol	10.290	162	108281	55.657	ng		97
30) 1,2,4-Trichlorobenzene	10.514	180	105376	44.868	ng		99
31) Naphthalene	10.696	128	356563	46.599	ng		99
32) Benzoic acid	9.909	122	21042m	20.869	ng		
33) 4-Chloroaniline	10.796	127	60514	21.638	ng		97
34) Hexachlorobutadiene	10.990	225	65720	42.692	ng		95
35) Caprolactam	11.565	113	7606m	10.202	ng		
36) 4-Chloro-3-methylphenol	11.924	107	126660	49.667	ng		100
37) 2-Methylnaphthalene	12.306	142	253060	46.848	ng		99
38) 1-Methylnaphthalene	12.529	142	265405	50.151	ng		98
40) 1,2,4,5-Tetrachloroben...	12.676	216	144027	51.699	ng		98
41) Hexachlorocyclopentadiene	12.664	237	186029	237.253	ng		92
43) 2,4,6-Trichlorophenol	12.911	196	104057	63.375	ng		93

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064136.D
Acq On : 1 Apr 2025 15:44
Operator : RC/JU
Sample : Q1664-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 01 16:29:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.981	196	113775	62.363	ng		99
46) 1,1'-Biphenyl	13.322	154	399444	54.181	ng		99
47) 2-Chloronaphthalene	13.357	162	288267	53.612	ng		96
48) 2-Nitroaniline	13.557	65	117324	62.103	ng		97
49) Acenaphthylene	14.209	152	505558	59.444	ng		98
50) Dimethylphthalate	13.945	163	411716	57.157	ng		98
51) 2,6-Dinitrotoluene	14.057	165	89010	60.006	ng		94
52) Acenaphthene	14.550	154	306320	53.668	ng		99
53) 3-Nitroaniline	14.380	138	42484	30.516	ng	#	95
54) 2,4-Dinitrophenol	14.591	184	94881	148.264	ng	#	70
55) Dibenzofuran	14.885	168	485853	52.546	ng		97
56) 4-Nitrophenol	14.691	139	46751	40.041	ng	#	87
57) 2,4-Dinitrotoluene	14.844	165	128791	62.667	ng	#	96
58) Fluorene	15.531	166	403841	56.077	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.108	232	114658	64.466	ng		94
60) Diethylphthalate	15.314	149	440628	56.347	ng		99
61) 4-Chlorophenyl-phenyle...	15.531	204	193862	54.171	ng		93
62) 4-Nitroaniline	15.549	138	89173	59.328	ng		94
63) Azobenzene	15.819	77	450900	54.036	ng		97
65) 4,6-Dinitro-2-methylph...	15.608	198	75669	71.307	ng		97
66) n-Nitrosodiphenylamine	15.743	169	363176	55.739	ng		98
67) 4-Bromophenyl-phenylether	16.419	248	135154	57.329	ng		94
68) Hexachlorobenzene	16.536	284	148071	56.101	ng		98
69) Atrazine	16.695	200	157650	82.233	ng		95
70) Pentachlorophenol	16.877	266	214754	131.048	ng		99
71) Phenanthrene	17.271	178	714802	58.220	ng		99
72) Anthracene	17.359	178	721645	59.111	ng		98
73) Carbazole	17.623	167	687587	60.323	ng		98
74) Di-n-butylphthalate	18.199	149	836411	62.339	ng		100
75) Fluoranthene	19.280	202	867550	58.612	ng		96
77) Benzidine	19.456	184	92624	26.312	ng		97
78) Pyrene	19.638	202	896907	54.732	ng		99
80) Butylbenzylphthalate	20.537	149	386471	61.723	ng		94
81) Benzo(a)anthracene	21.436	228	943149	57.917	ng		98
82) 3,3'-Dichlorobenzidine	21.360	252	178281	33.828	ng		99
83) Chrysene	21.501	228	890505	54.829	ng		98
84) Bis(2-ethylhexyl)phtha...	21.372	149	573663	65.138	ng		99
85) Di-n-octyl phthalate	22.511	149	995308	65.521	ng		98
87) Indeno(1,2,3-cd)pyrene	27.870	276	1108149	59.332	ng		99
88) Benzo(b)fluoranthene	23.522	252	922469	54.663	ng		98
89) Benzo(k)fluoranthene	23.581	252	943597	55.737	ng		99
90) Benzo(a)pyrene	24.333	252	899894	59.877	ng		98
91) Dibenzo(a,h)anthracene	27.929	278	912813	58.952	ng		99
92) Benzo(g,h,i)perylene	28.927	276	894624	56.274	ng		98

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

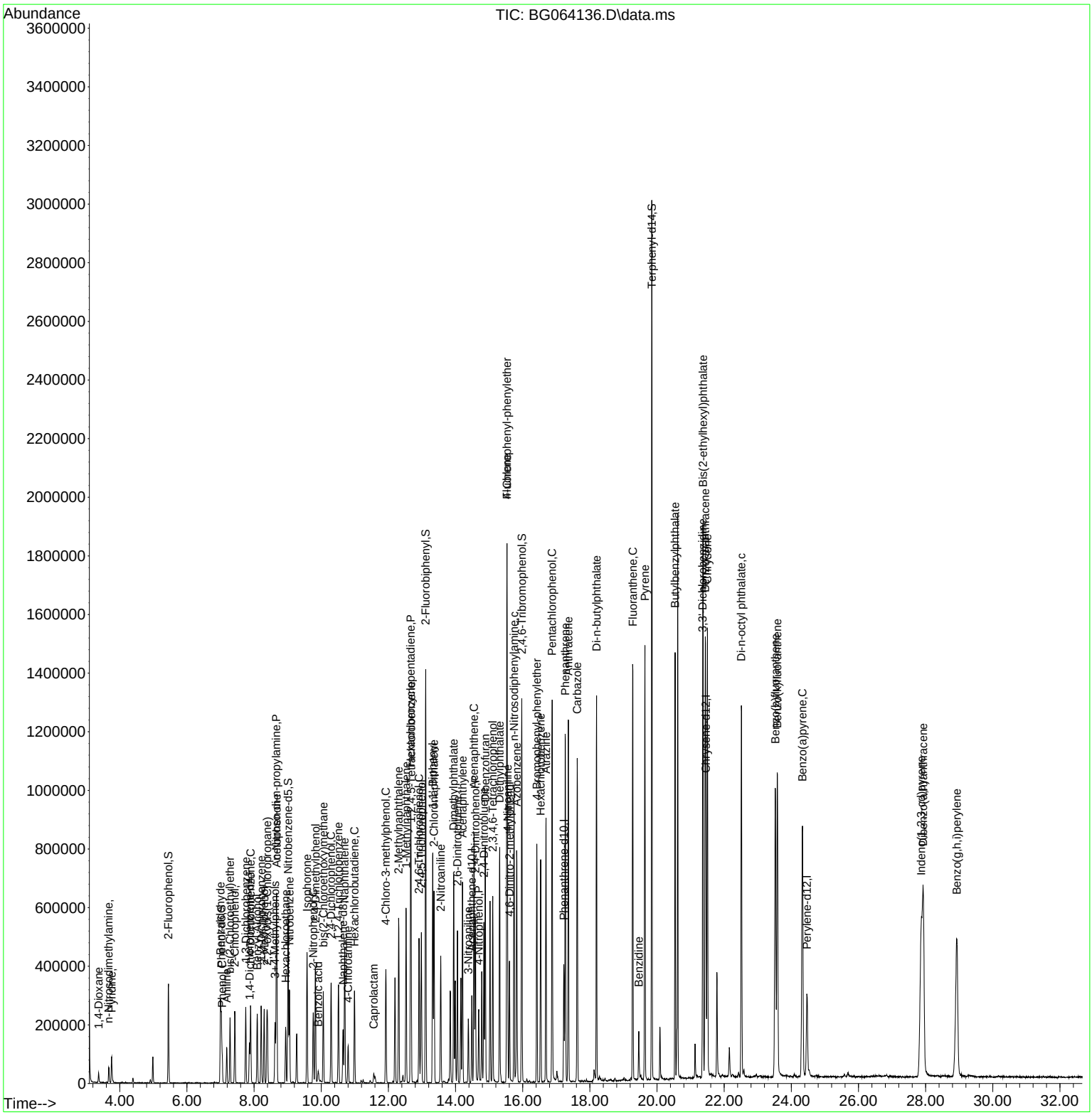
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG040125\
Data File : BG064136.D
Acq On : 1 Apr 2025 15:44
Operator : RC/JU
Sample : Q1664-06MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

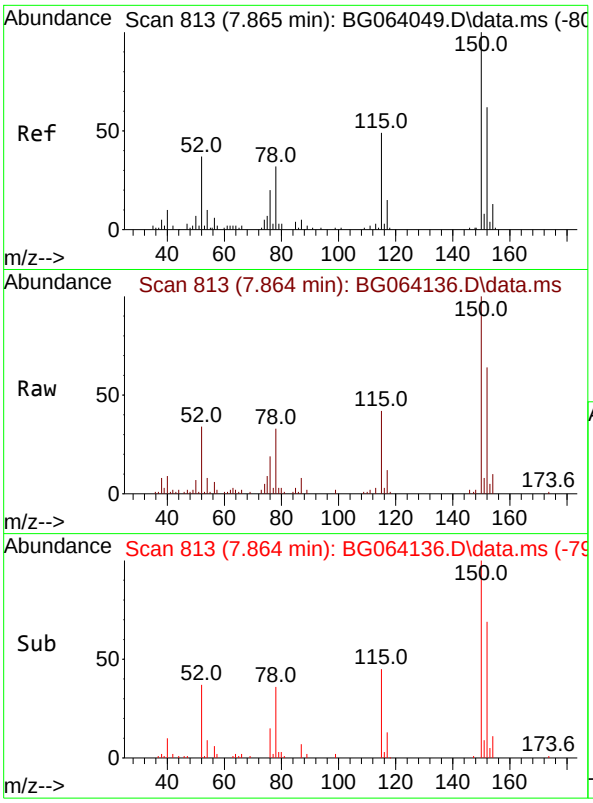
Quant Time: Apr 01 16:29:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

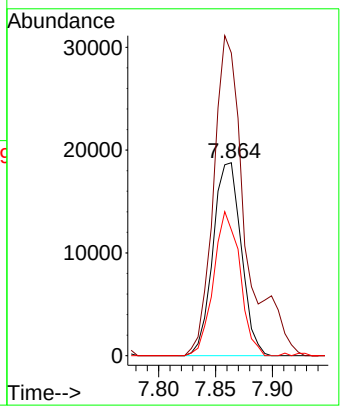




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:152 Resp: 3244

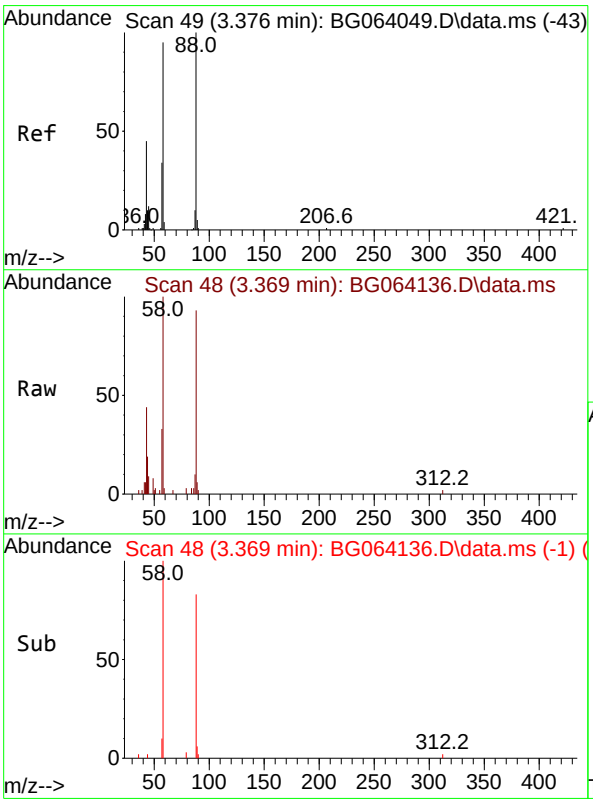
Ion	Ratio	Lower	Upper
152	100		
150	156.9	129.2	193.8
115	65.3	63.0	94.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

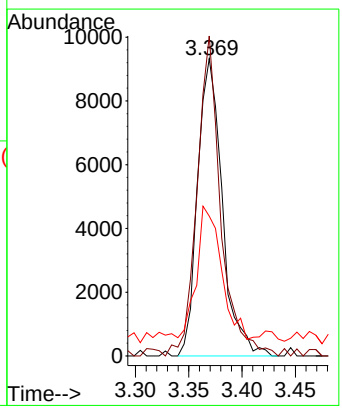
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

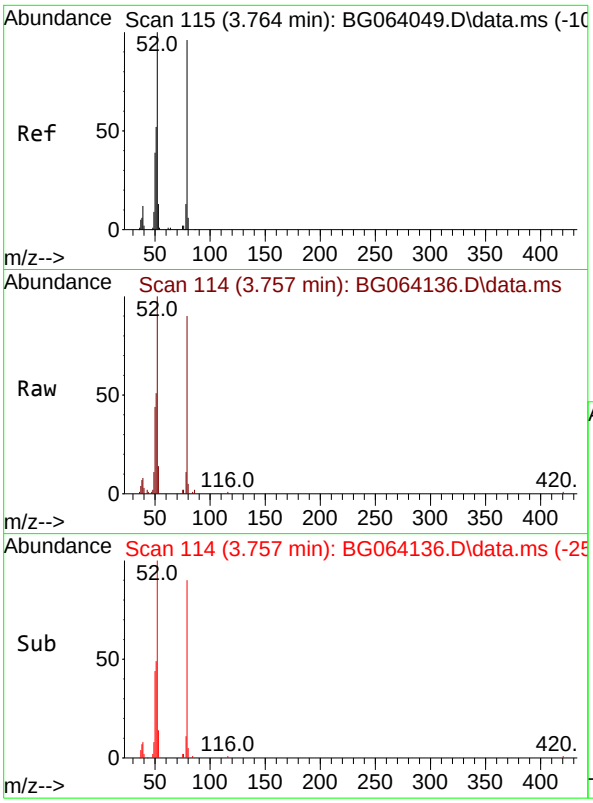


#2
1,4-Dioxane
Concen: 16.023 ng
RT: 3.369 min Scan# 48
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 88 Resp: 15089

Ion	Ratio	Lower	Upper
88	100		
58	102.7	74.6	111.8
43	43.1	35.5	53.3

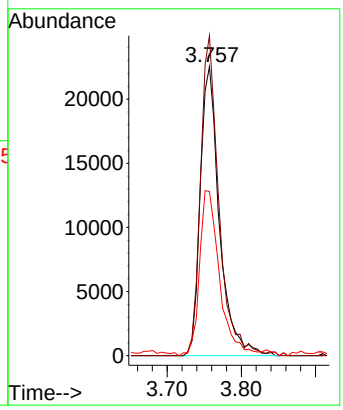




#3
Pyridine
Concen: 17.664 ng
RT: 3.757 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 79 Resp: 4045

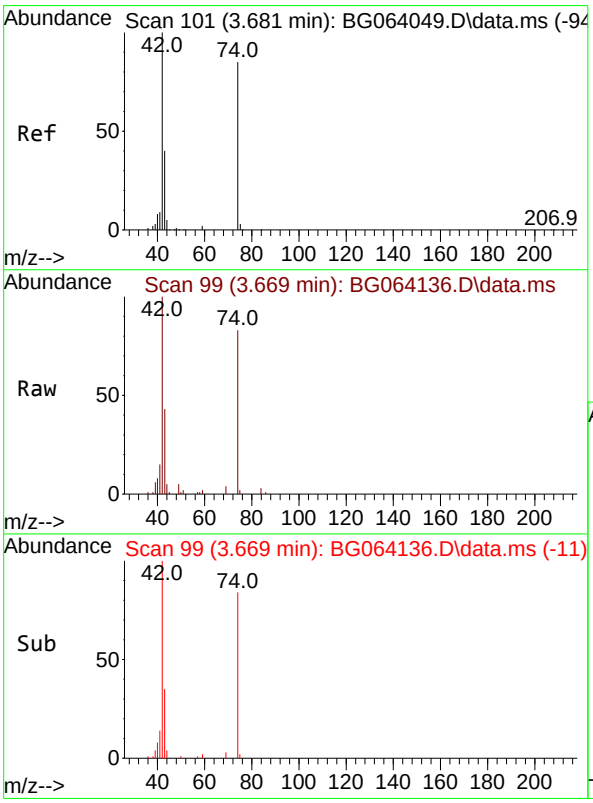
Ion	Ratio	Lower	Upper
79	100		
52	110.7	83.0	124.6
51	56.8	44.3	66.5



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

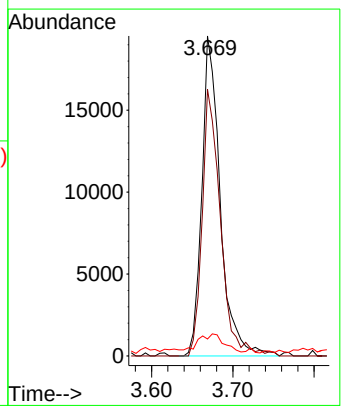
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

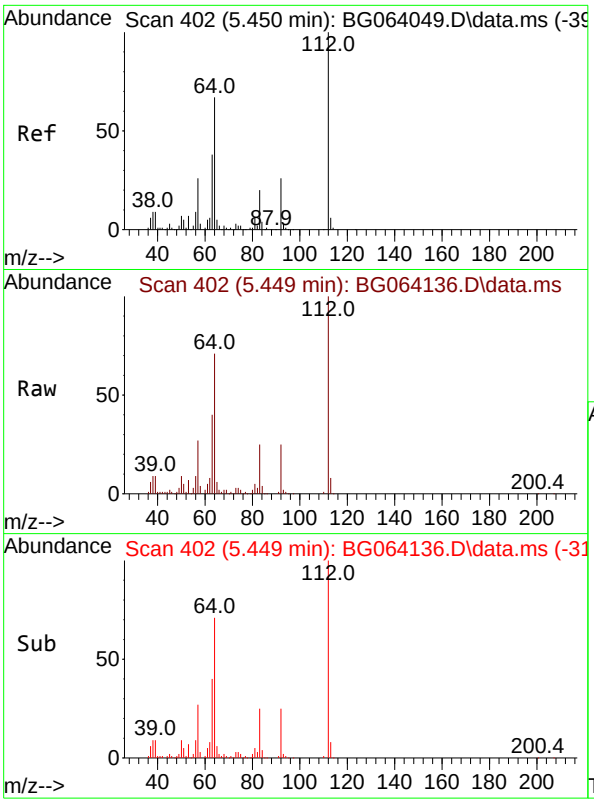


#4
n-Nitrosodimethylamine
Concen: 18.744 ng
RT: 3.669 min Scan# 99
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 42 Resp: 30671

Ion	Ratio	Lower	Upper
42	100		
74	83.3	68.0	102.0
44	5.3	4.9	7.3

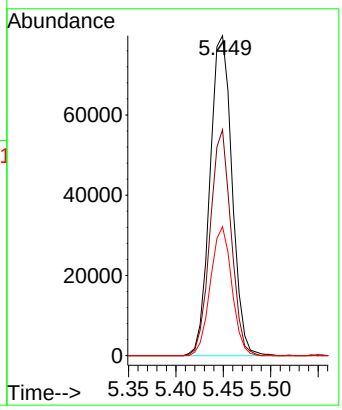




#5
2-Fluorophenol
Concen: 62.246 ng
RT: 5.449 min Scan# 4
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:112 Resp: 12933

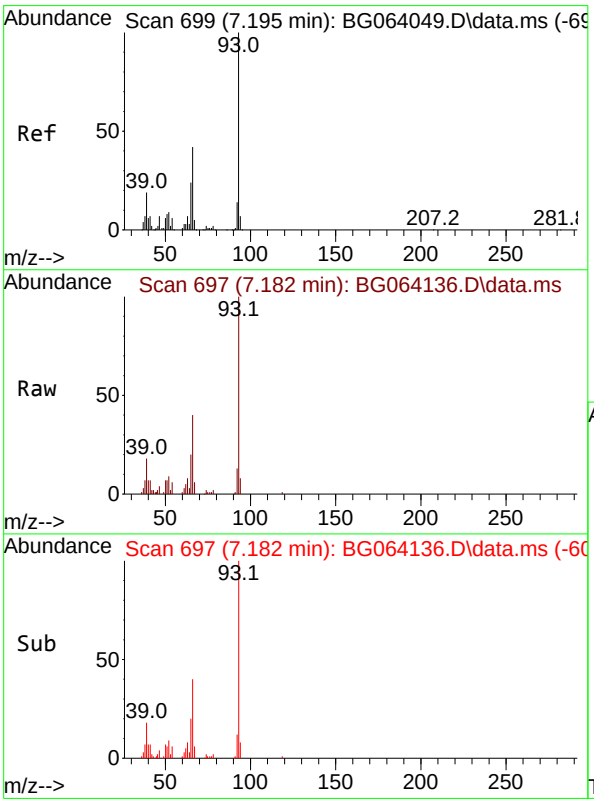
Ion	Ratio	Lower	Upper
112	100		
64	70.6	53.7	80.5
63	40.3	30.2	45.4



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

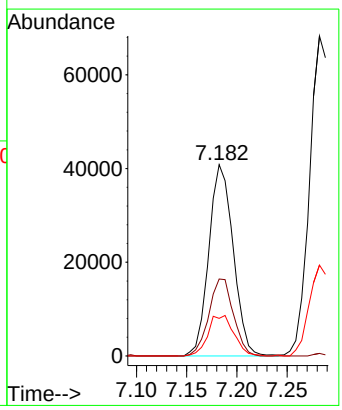
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

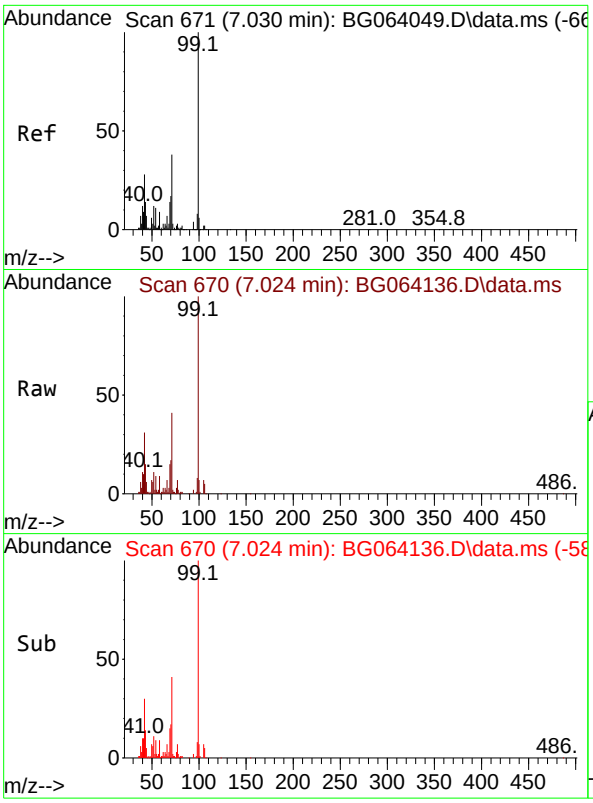


#6
Aniline
Concen: 24.909 ng
RT: 7.182 min Scan# 697
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 93 Resp: 69093

Ion	Ratio	Lower	Upper
93	100		
66	40.3	33.7	50.5
65	19.7	19.1	28.7

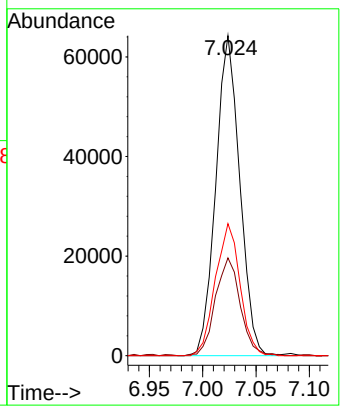




#7
Phenol-d6
Concen: 35.441 ng
RT: 7.024 min Scan# 6
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 99 Resp: 10018

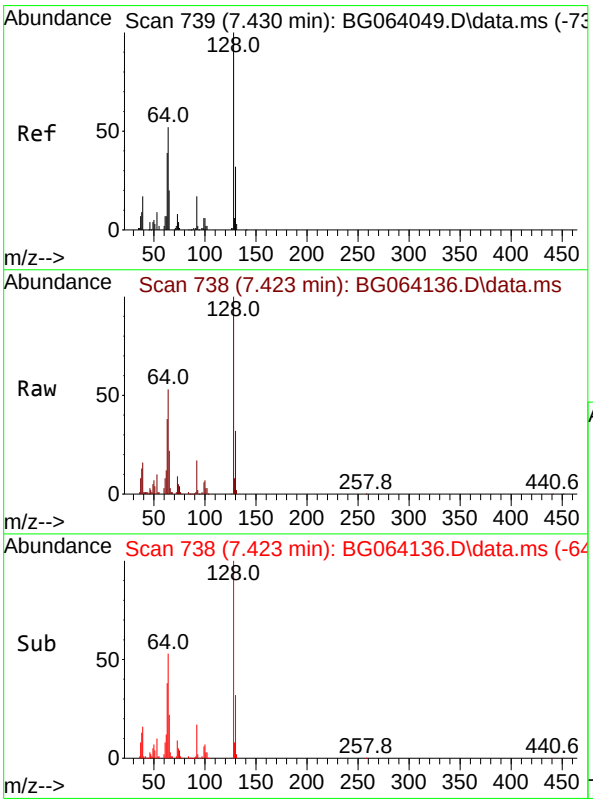
Ion	Ratio	Lower	Upper
99	100		
42	30.6	22.7	34.1
71	41.3	30.6	46.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

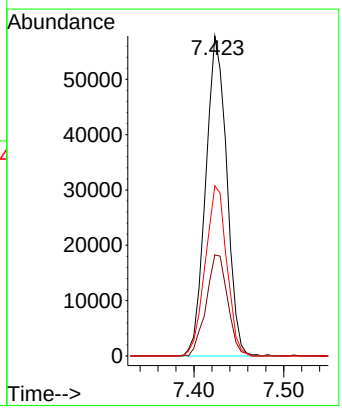
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

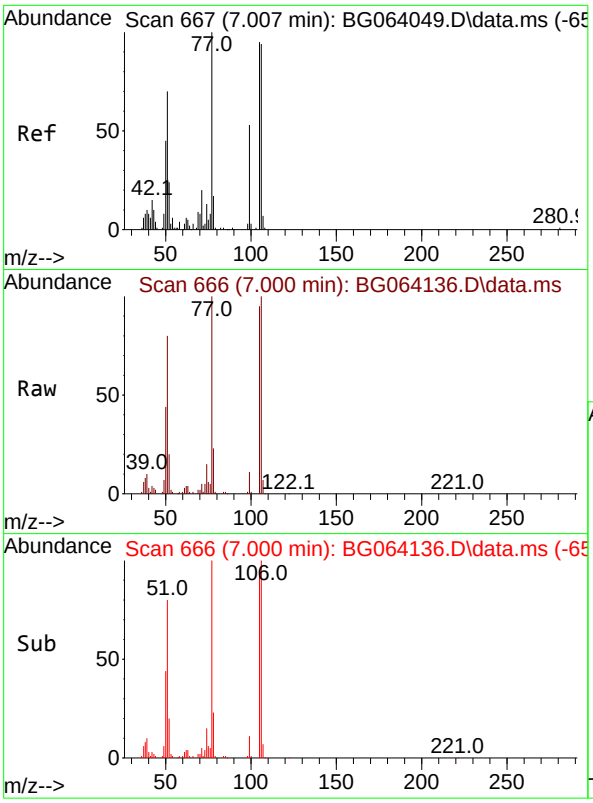


#8
2-Chlorophenol
Concen: 42.159 ng
RT: 7.423 min Scan# 738
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:128 Resp: 94084

Ion	Ratio	Lower	Upper
128	100		
130	31.6	12.3	52.3
64	53.2	37.0	77.0

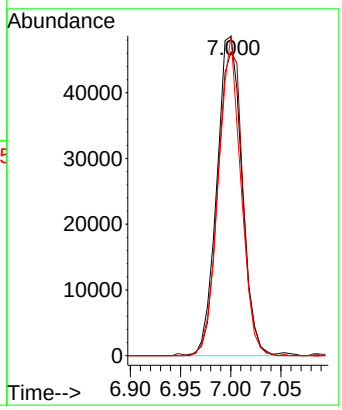




#9
Benzaldehyde
Concen: 51.206 ng
RT: 7.000 min Scan# 6
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 77 Resp: 8418

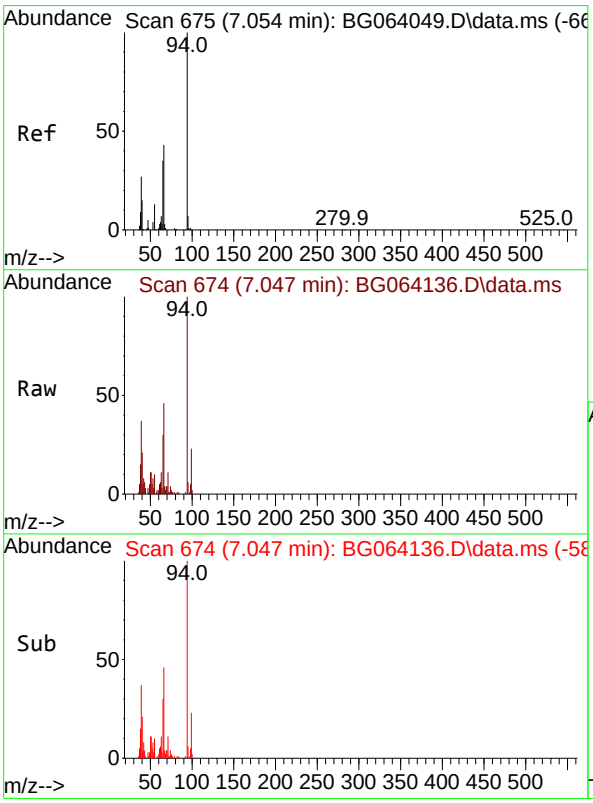
Ion	Ratio	Lower	Upper
77	100		
105	95.0	75.5	115.5
106	100.1	74.2	114.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

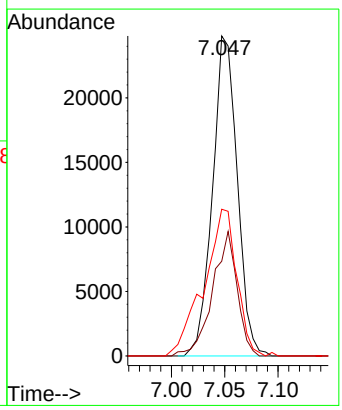
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

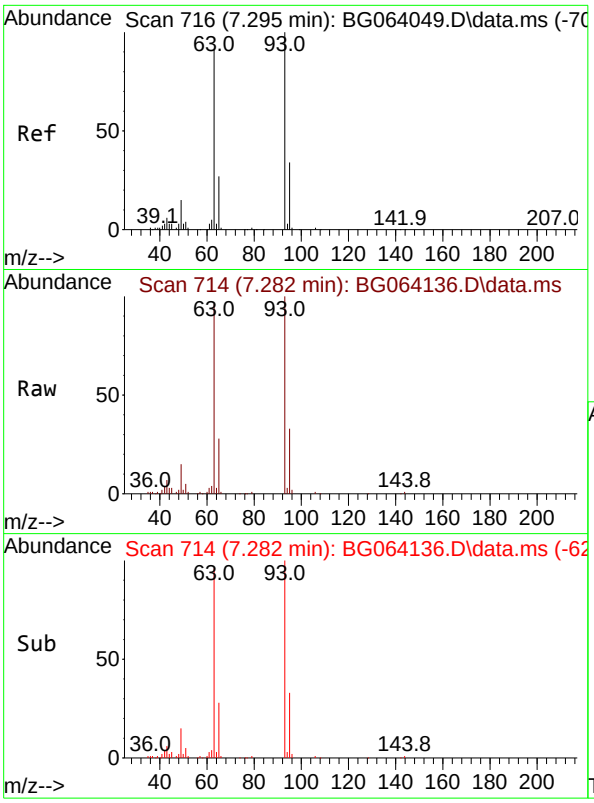


#10
Phenol
Concen: 13.822 ng
RT: 7.047 min Scan# 674
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 94 Resp: 40002

Ion	Ratio	Lower	Upper
94	100		
65	29.6	15.2	55.2
66	45.9	25.1	65.1

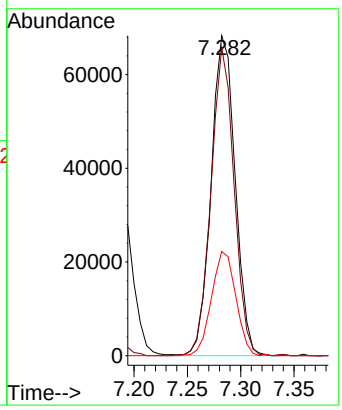




#11
bis(2-Chloroethyl)ether
Concen: 47.043 ng
RT: 7.282 min Scan# 7
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 93 Resp: 10673

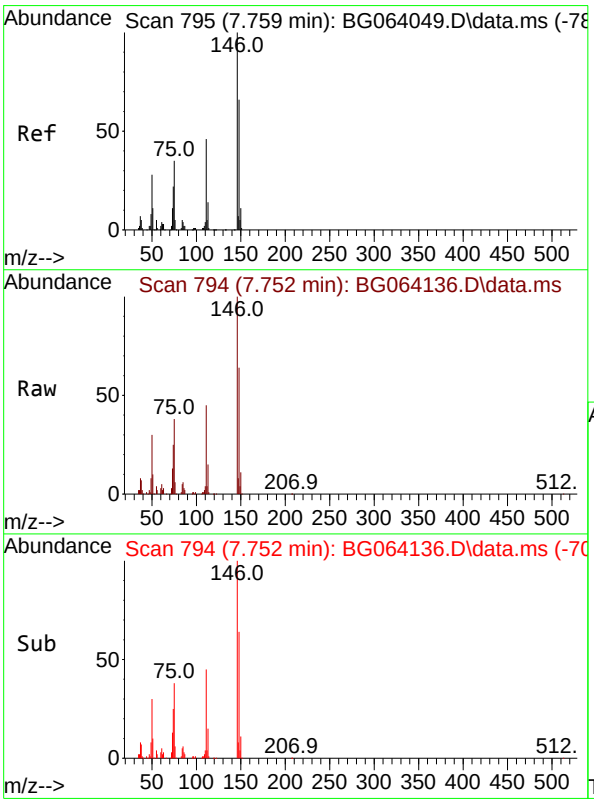
Ion	Ratio	Lower	Upper
93	100		
63	96.3	70.0	110.0
95	32.6	13.7	53.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

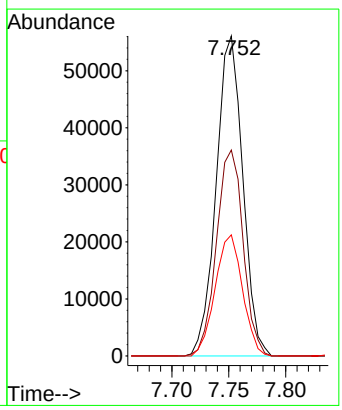
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

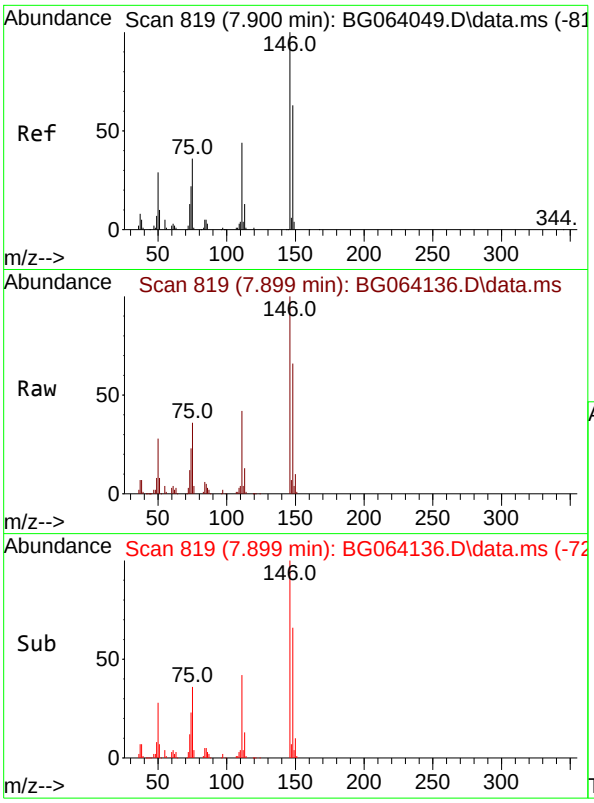


#12
1,3-Dichlorobenzene
Concen: 37.288 ng
RT: 7.752 min Scan# 794
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:146 Resp: 91380

Ion	Ratio	Lower	Upper
146	100		
148	64.4	52.6	78.8
75	37.9	28.1	42.1

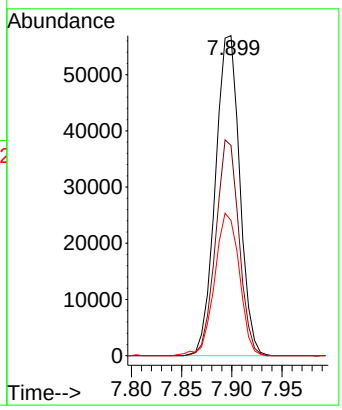




#13
1,4-Dichlorobenzene
Concen: 38.159 ng
RT: 7.899 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:146 Resp: 9585

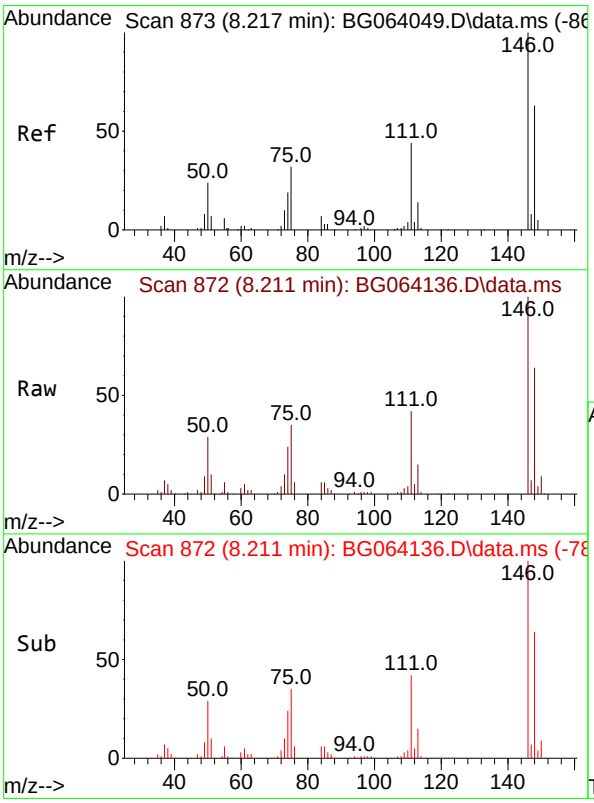
Ion	Ratio	Lower	Upper
146	100		
148	65.7	50.6	75.8
111	42.2	35.1	52.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

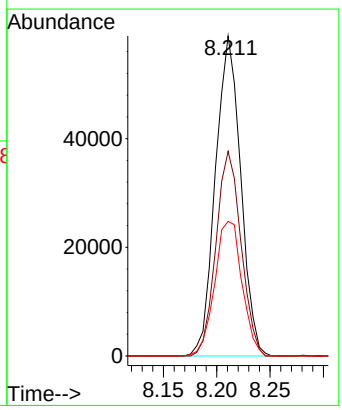
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

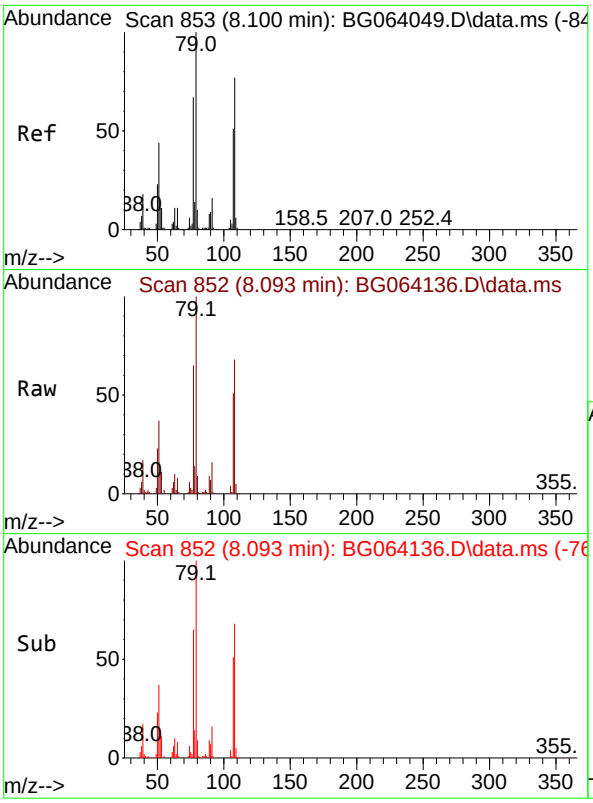


#14
1,2-Dichlorobenzene
Concen: 39.950 ng
RT: 8.211 min Scan# 872
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:146 Resp: 96765

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.2	75.2
111	42.1	36.4	54.6

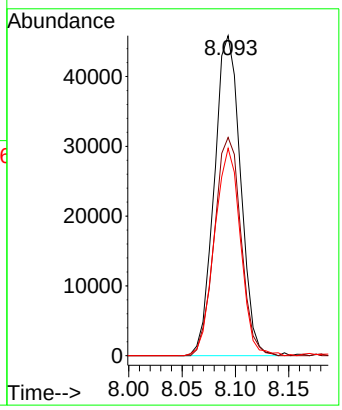




#15
Benzyl Alcohol
Concen: 35.789 ng
RT: 8.093 min Scan# 8
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 79 Resp: 7817

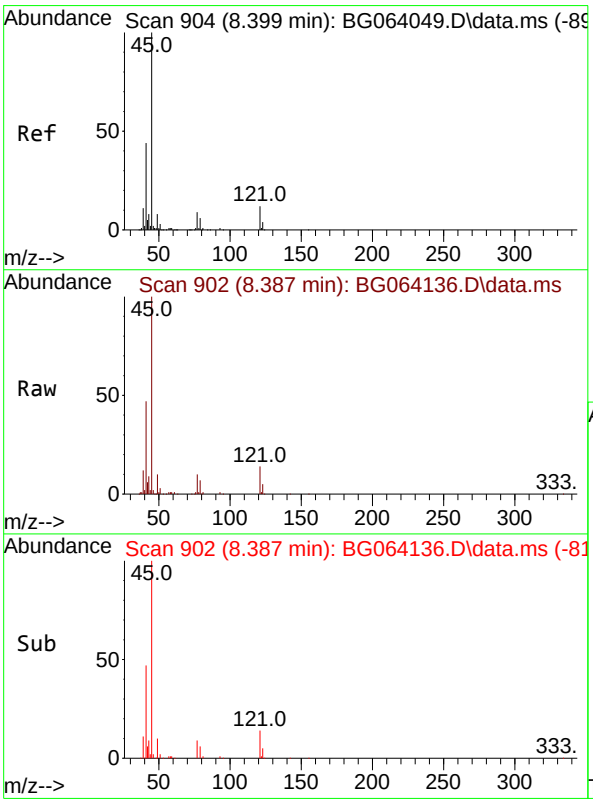
Ion	Ratio	Lower	Upper
79	100		
108	68.2	61.7	92.5
77	64.8	53.9	80.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

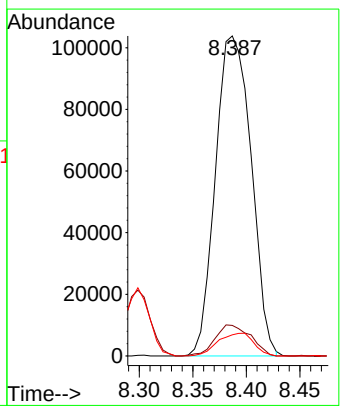
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

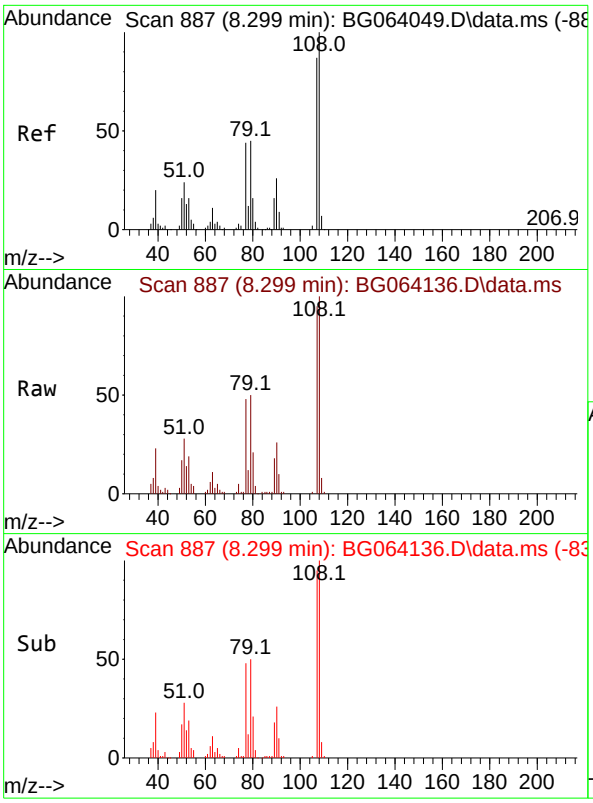


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.251 ng m
RT: 8.387 min Scan# 902
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 45 Resp: 241066

Ion	Ratio	Lower	Upper
45	100		
77	9.5	0.0	29.0
79	6.6	0.0	26.6

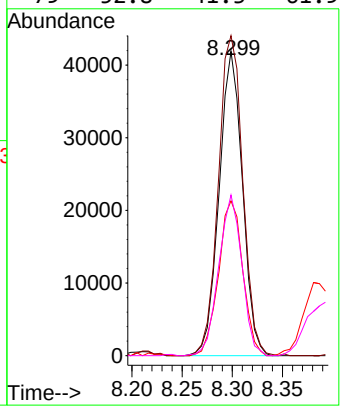




#17
2-Methylphenol
Concen: 35.212 ng
RT: 8.299 min Scan# 8
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:107 Resp: 6763

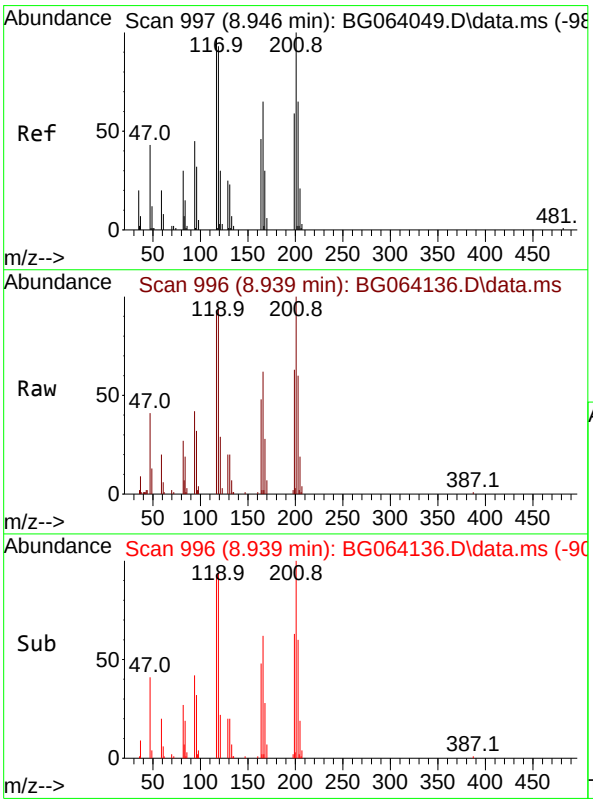
Ion	Ratio	Lower	Upper
107	100		
108	105.2	92.5	138.7
77	50.9	40.5	60.7
79	52.8	41.3	61.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

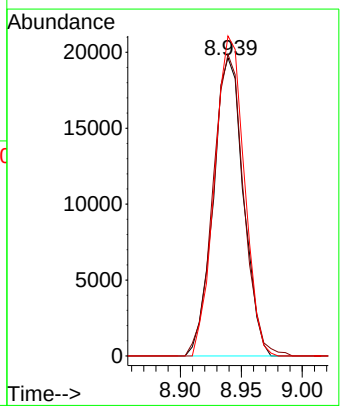
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

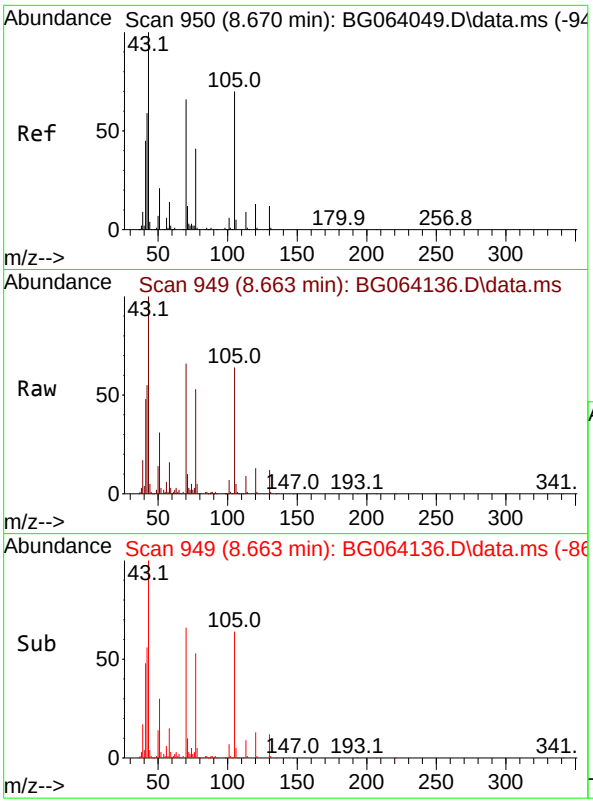


#18
Hexachloroethane
Concen: 38.373 ng
RT: 8.939 min Scan# 996
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:117 Resp: 33724

Ion	Ratio	Lower	Upper
117	100		
119	101.2	76.2	114.2
201	107.4	81.5	122.3

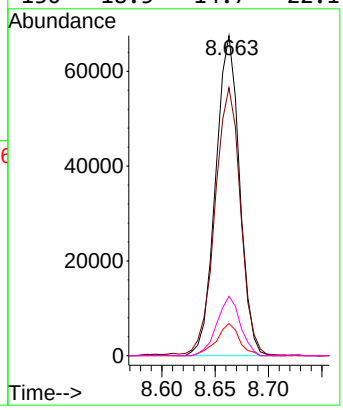




#19
n-Nitroso-di-n-propylamine
Concen: 52.969 ng
RT: 8.663 min Scan# 94
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 70 Resp: 10508

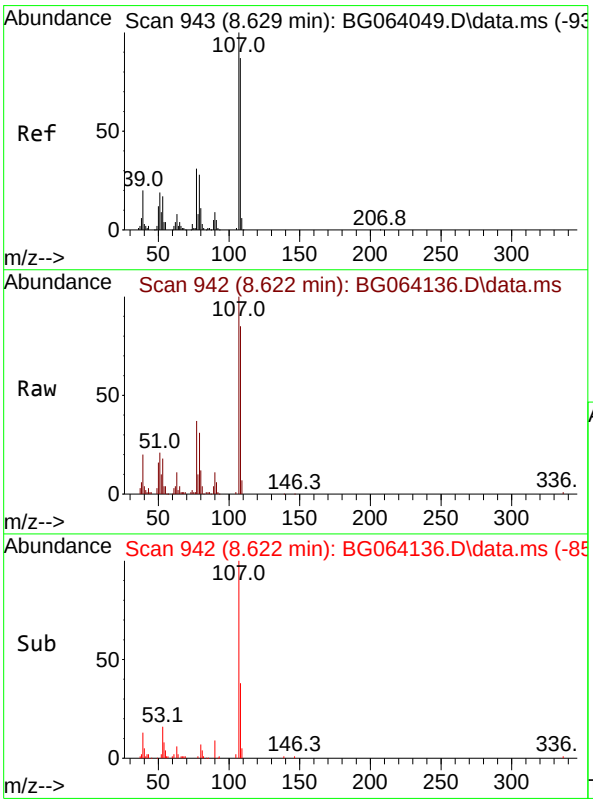
Ion	Ratio	Lower	Upper
70	100		
42	83.7	72.1	108.1
101	10.0	7.2	10.8
130	18.5	14.7	22.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

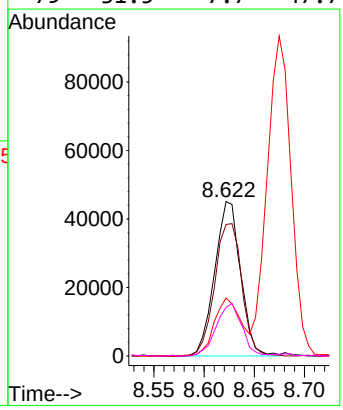
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

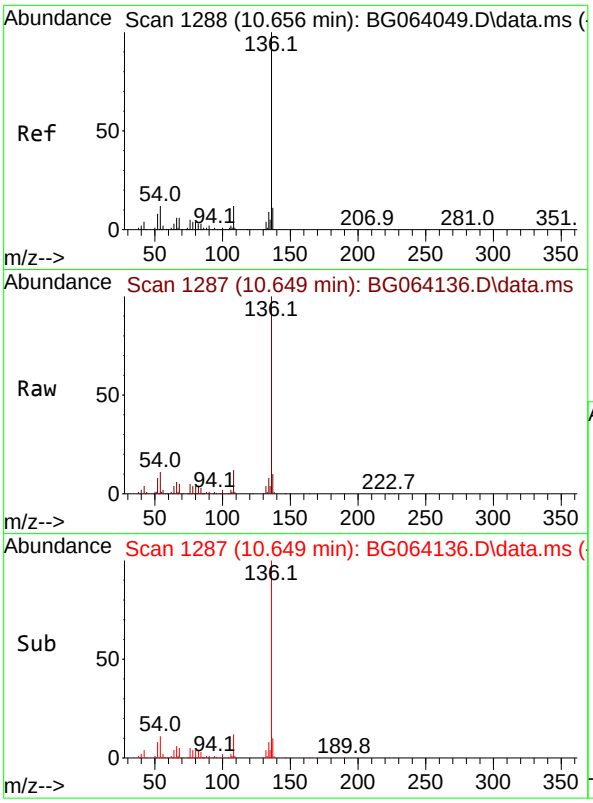


#20
3+4-Methylphenols
Concen: 30.609 ng
RT: 8.622 min Scan# 942
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:107 Resp: 80940

Ion	Ratio	Lower	Upper
107	100		
108	85.1	67.0	107.0
77	37.5	11.2	51.2
79	31.5	7.7	47.7

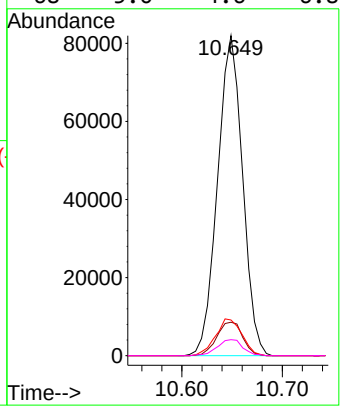




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:136 Resp: 14190

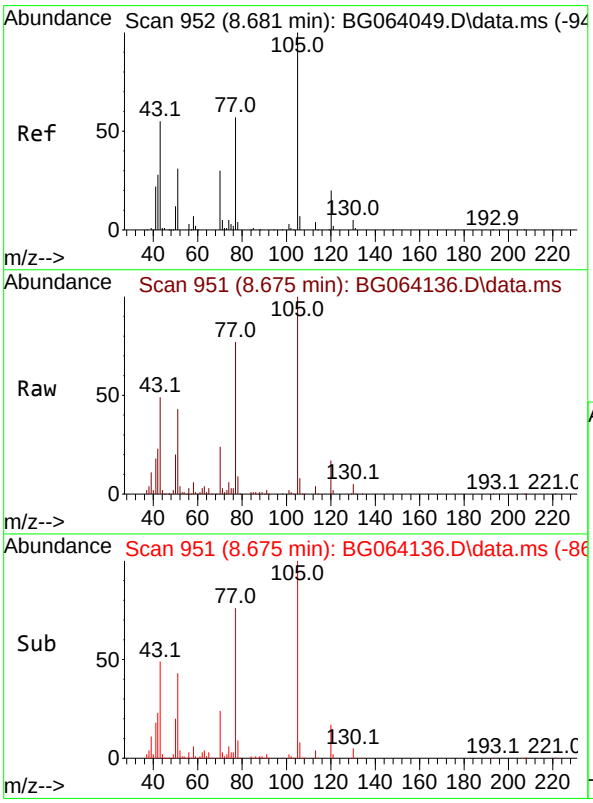
Ion	Ratio	Lower	Upper
136	100		
137	10.5	8.5	12.7
54	11.2	9.9	14.9
68	5.0	4.6	6.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

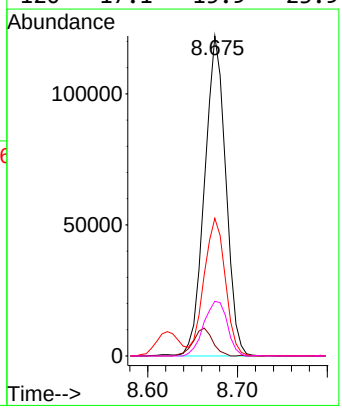
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

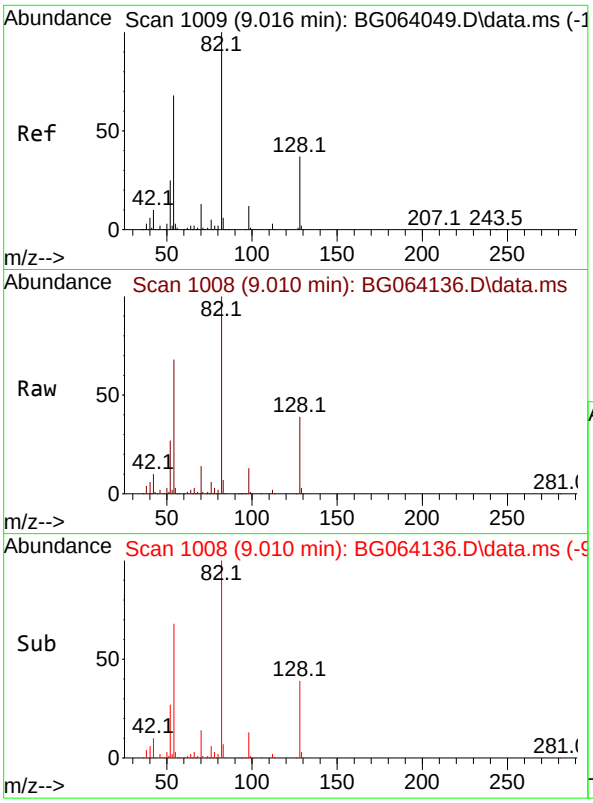


#22
Acetophenone
Concen: 51.370 ng
RT: 8.675 min Scan# 951
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:105 Resp: 199860

Ion	Ratio	Lower	Upper
105	100		
71	3.3	4.2	6.4#
51	43.0	33.3	49.9
120	17.1	15.9	23.9





#23
Nitrobenzene-d5
Concen: 116.603 ng
RT: 9.010 min Scan# 1(
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

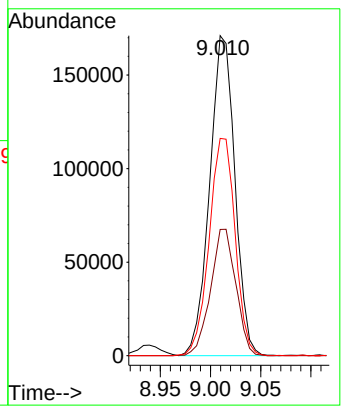
Tgt Ion: 82 Resp: 29941

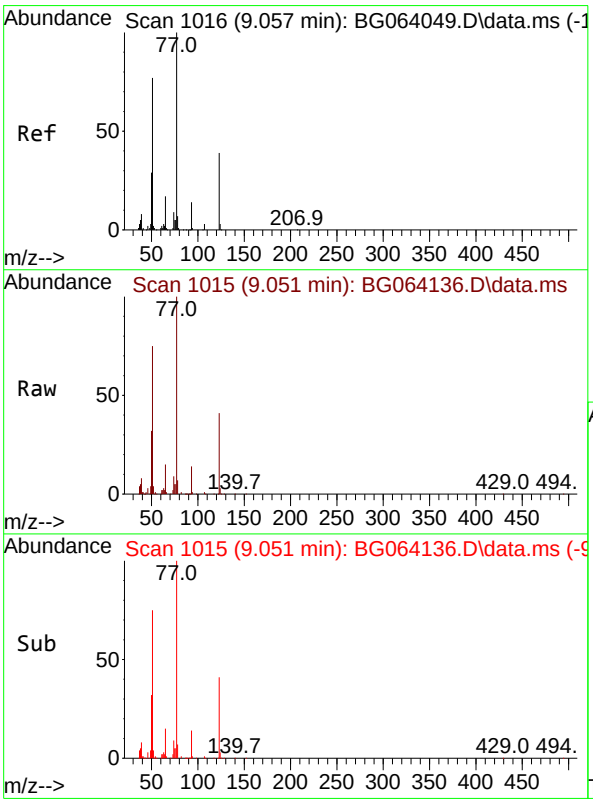
Ion	Ratio	Lower	Upper
82	100		
128	39.5	30.0	45.0
54	67.9	54.7	82.1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

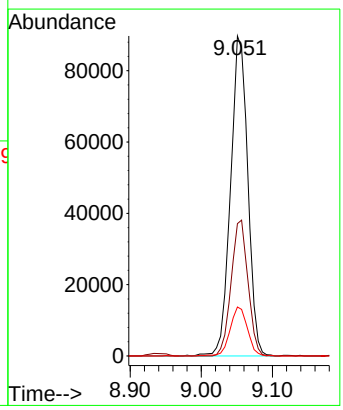


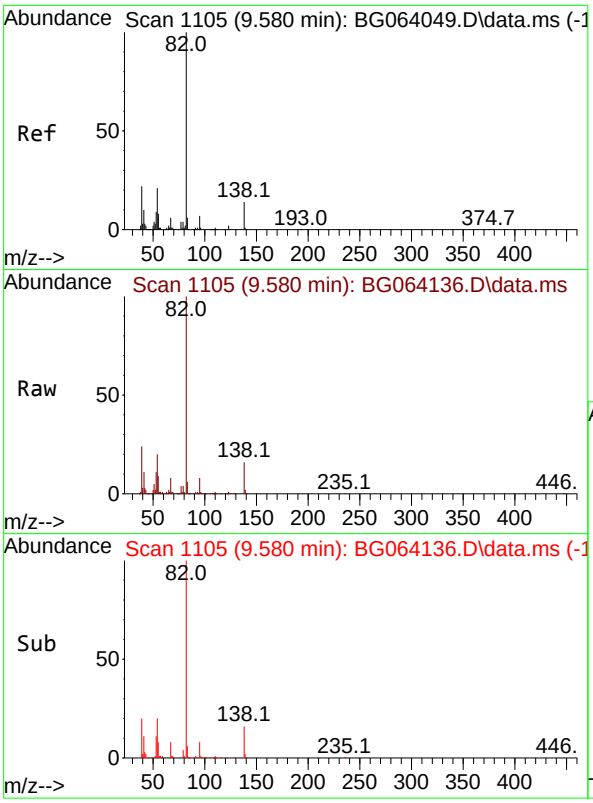


#24
Nitrobenzene
Concen: 56.939 ng
RT: 9.051 min Scan# 1015
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 77 Resp: 151097

Ion	Ratio	Lower	Upper
77	100		
123	41.3	31.4	47.2
65	15.3	13.4	20.0





#25
Isophorone
Concen: 56.052 ng
RT: 9.580 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

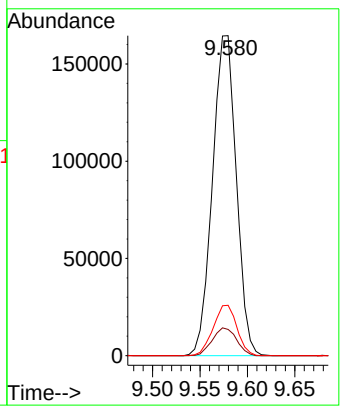
Tgt Ion: 82 Resp: 288079

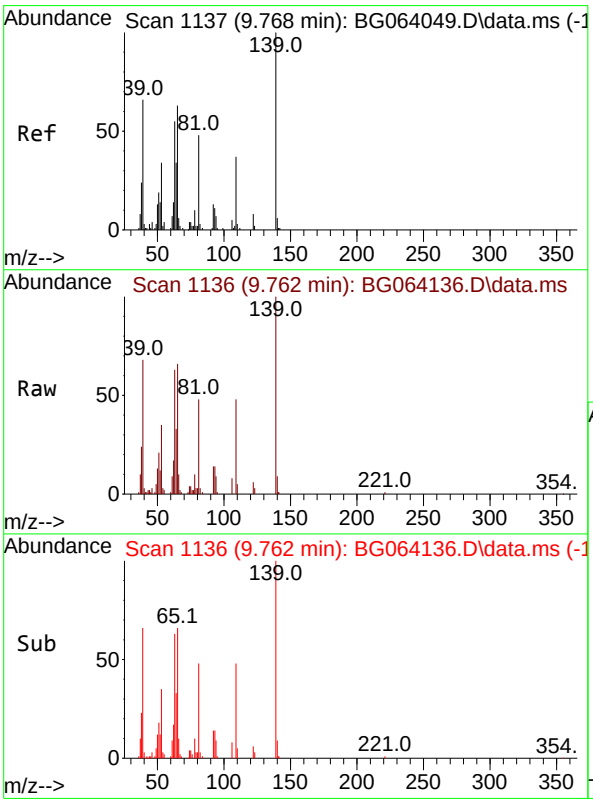
Ion	Ratio	Lower	Upper
82	100		
95	8.2	5.8	8.8
138	15.7	10.9	16.3

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

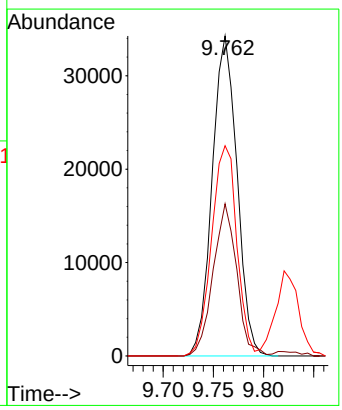


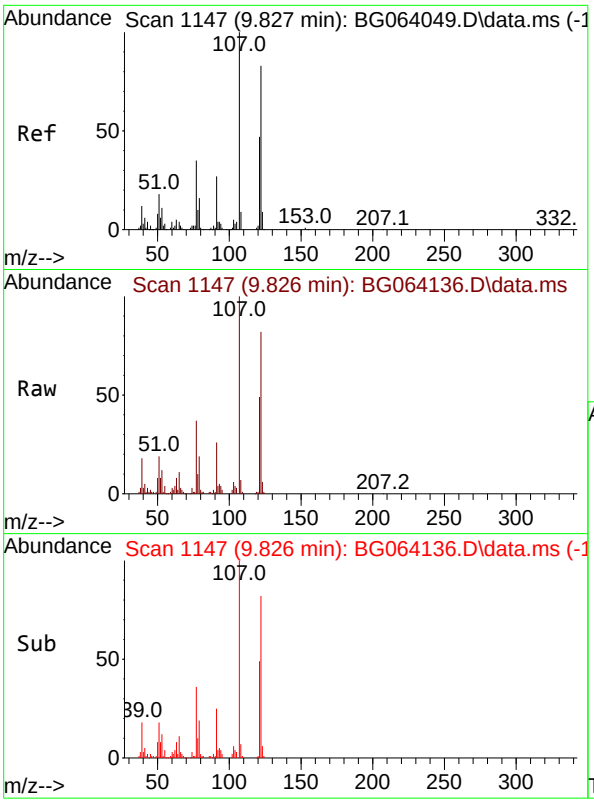


#26
2-Nitrophenol
Concen: 60.582 ng
RT: 9.762 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:139 Resp: 58921

Ion	Ratio	Lower	Upper
139	100		
109	47.5	29.9	44.9#
65	65.7	50.6	76.0





#27
2,4-Dimethylphenol
Concen: 67.783 ng
RT: 9.826 min Scan# 11
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

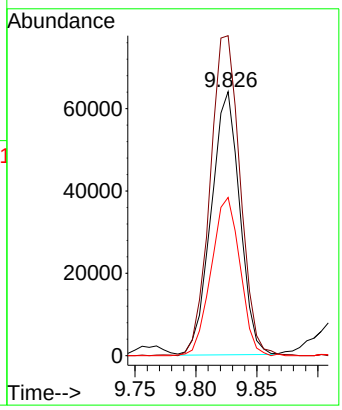
Tgt Ion:122 Resp: 10443

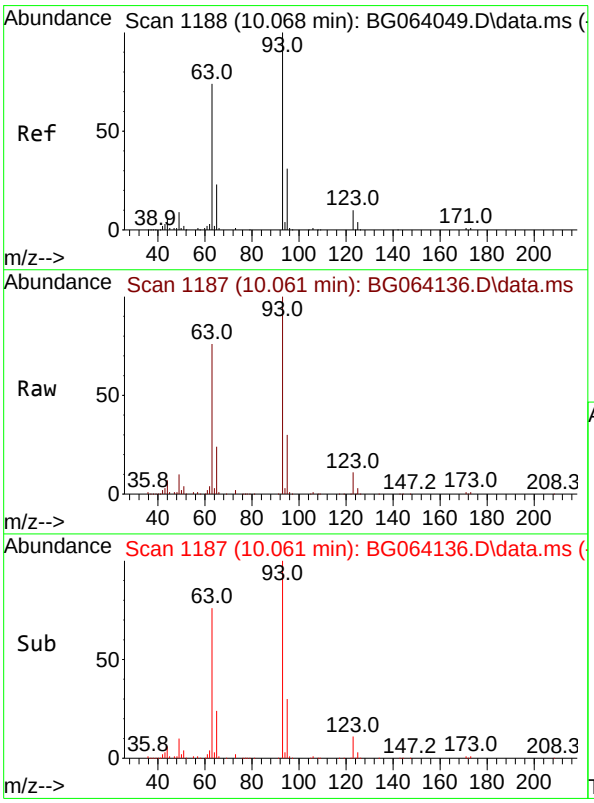
Ion	Ratio	Lower	Upper
122	100		
107	121.2	95.4	143.0
121	60.0	44.9	67.3

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

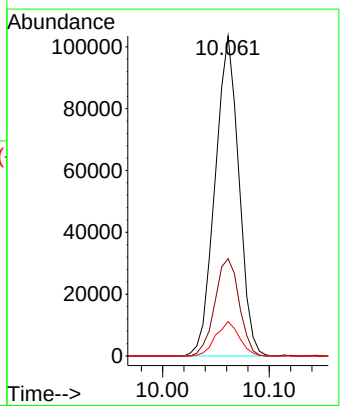


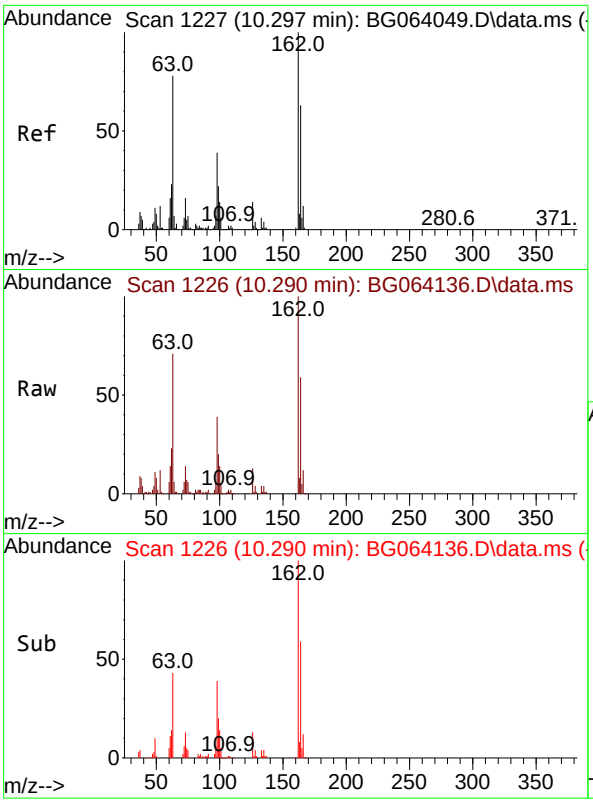


#28
bis(2-Chloroethoxy)methane
Concen: 51.367 ng
RT: 10.061 min Scan# 1187
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 93 Resp: 160057

Ion	Ratio	Lower	Upper
93	100		
95	30.4	25.0	37.4
123	10.8	7.6	11.4





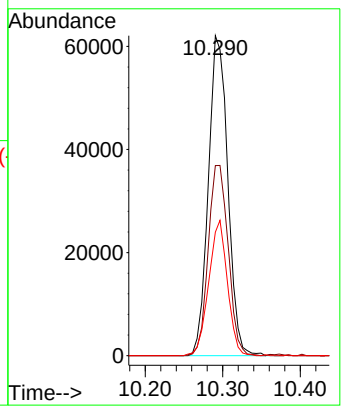
#29
2,4-Dichlorophenol
Concen: 55.657 ng
RT: 10.290 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

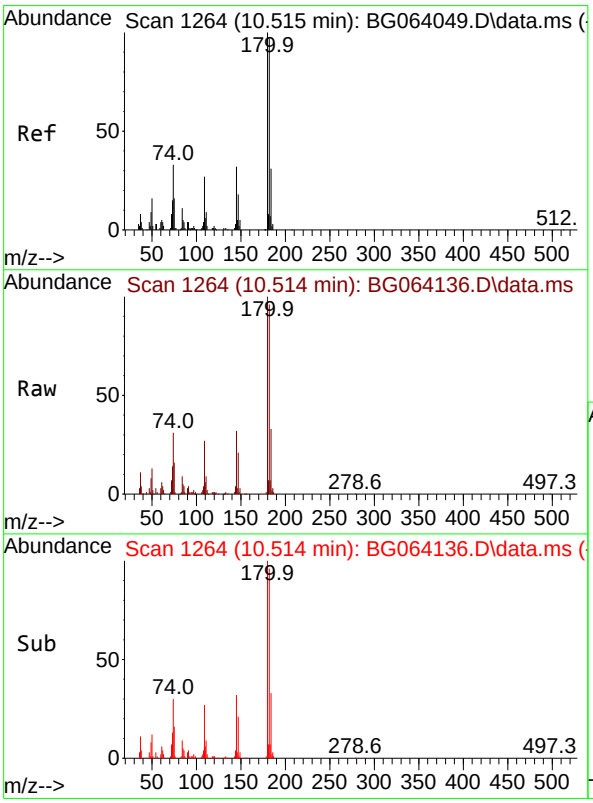
Tgt Ion:162 Resp: 10828

Ion	Ratio	Lower	Upper
162	100		
164	59.4	42.8	82.8
98	38.6	19.1	59.1

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

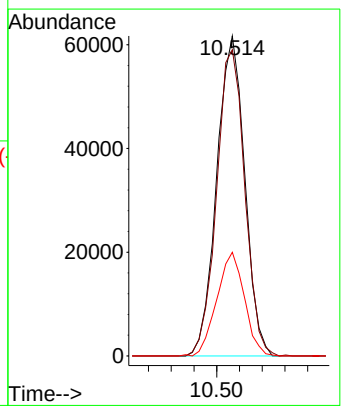


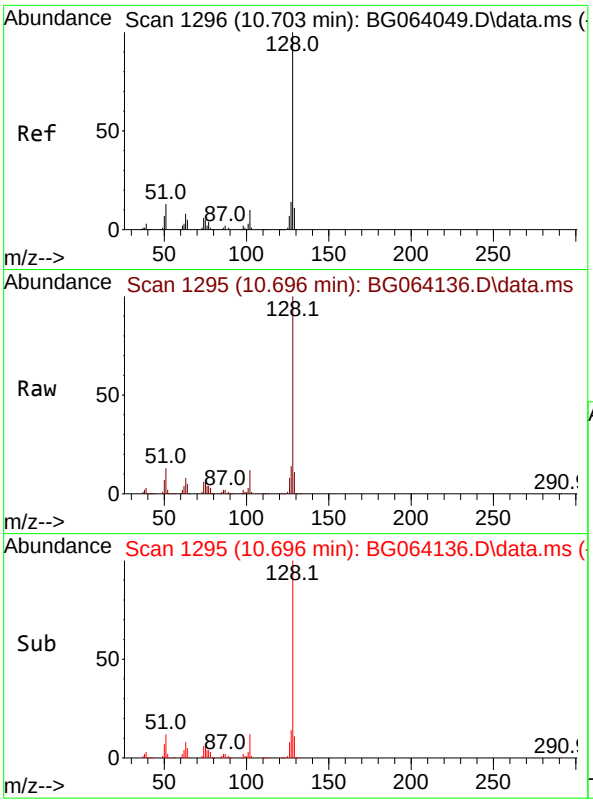


#30
1,2,4-Trichlorobenzene
Concen: 44.868 ng
RT: 10.514 min Scan# 1264
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:180 Resp: 105376

Ion	Ratio	Lower	Upper
180	100		
182	95.7	77.3	115.9
145	32.4	25.2	37.8

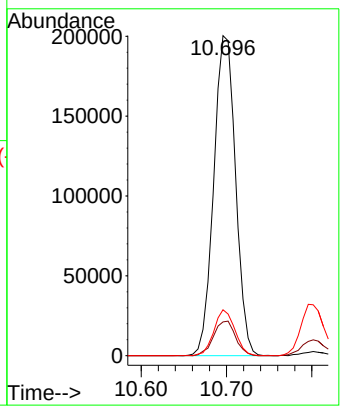




#31
Naphthalene
Concen: 46.599 ng
RT: 10.696 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:128 Resp: 35656

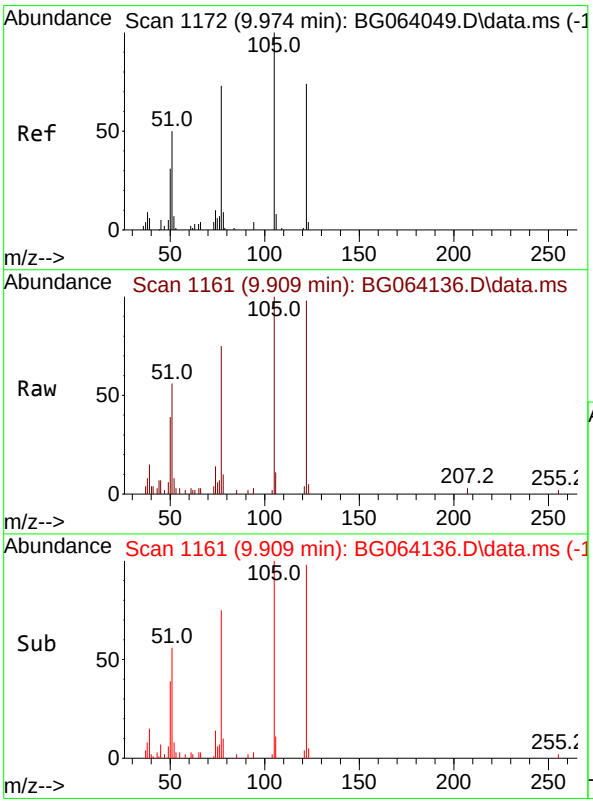
Ion	Ratio	Lower	Upper
128	100		
129	10.6	8.4	12.6
127	14.3	11.1	16.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

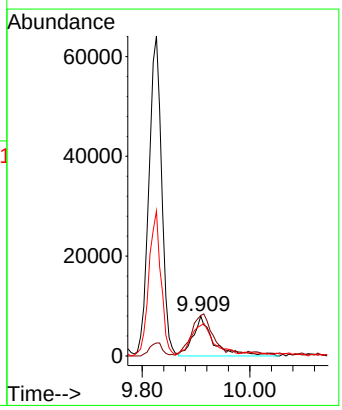
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

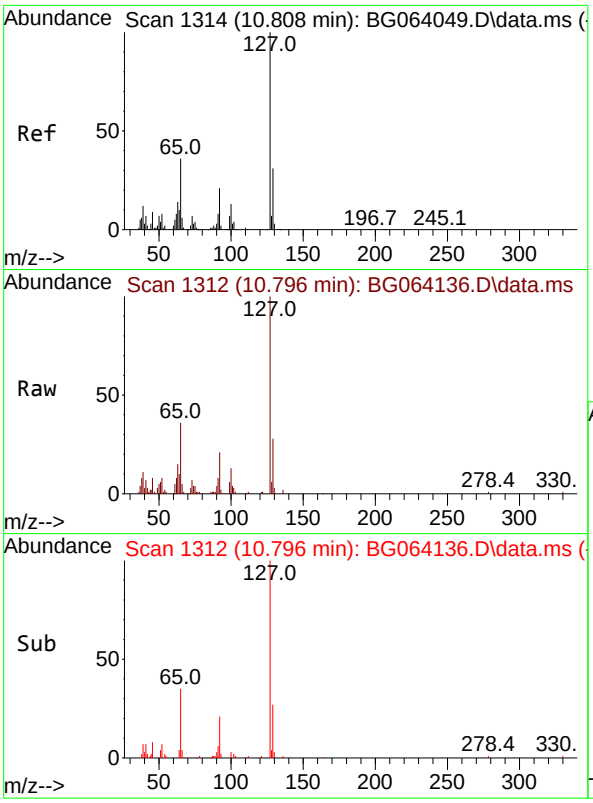


#32
Benzoic acid
Concen: 20.869 ng m
RT: 9.909 min Scan# 1161
Delta R.T. -0.065 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:122 Resp: 21042

Ion	Ratio	Lower	Upper
122	100		
105	101.5	115.0	155.0#
77	76.4	80.9	120.9#

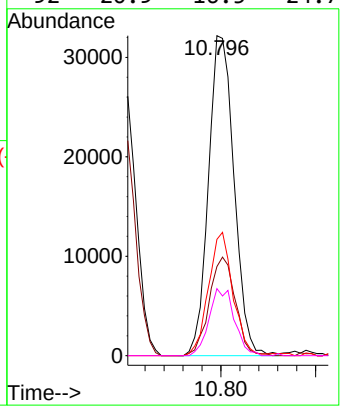




#33
4-Chloroaniline
Concen: 21.638 ng
RT: 10.796 min Scan# 1
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:127 Resp: 6051

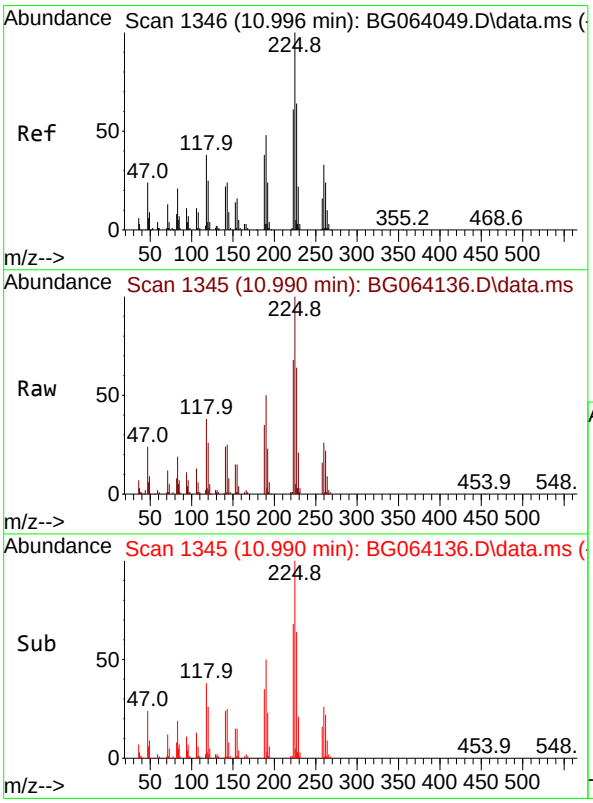
Ion	Ratio	Lower	Upper
127	100		
129	27.8	25.0	37.4
65	36.4	28.5	42.7
92	20.9	16.5	24.7



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

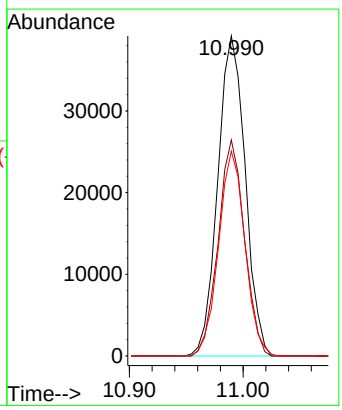
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

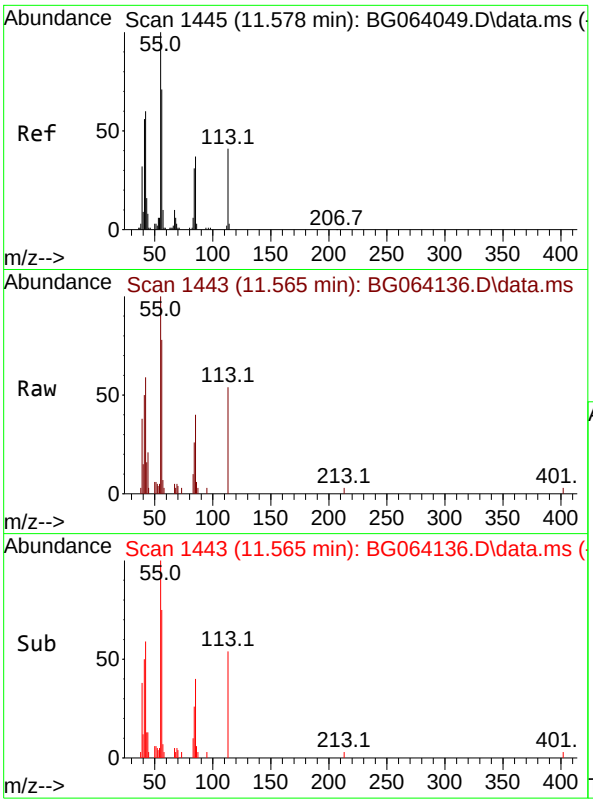


#34
Hexachlorobutadiene
Concen: 42.692 ng
RT: 10.990 min Scan# 1345
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:225 Resp: 65720

Ion	Ratio	Lower	Upper
225	100		
223	67.5	48.5	72.7
227	64.0	51.0	76.6





#35
Caprolactam
Concen: 10.202 ng m
RT: 11.565 min Scan# 14
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

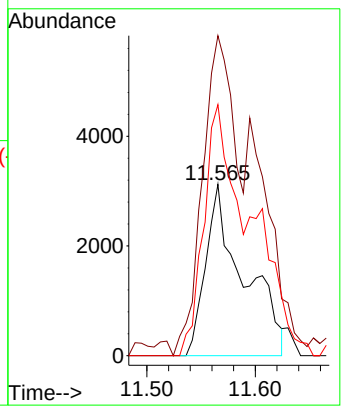
Tgt Ion:113 Resp: 760

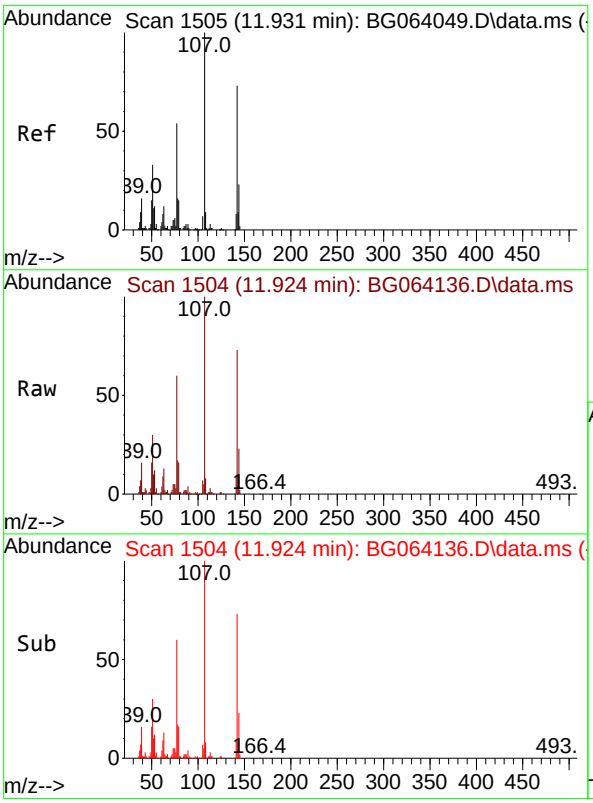
Ion	Ratio	Lower	Upper
113	100		
55	186.7	225.2	265.2#
56	146.5	153.4	193.4#

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

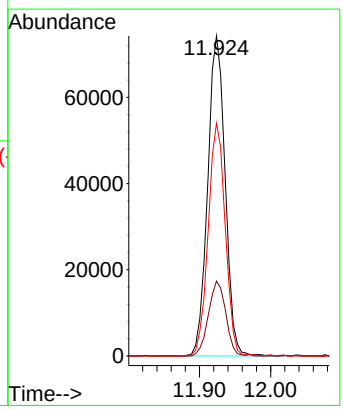


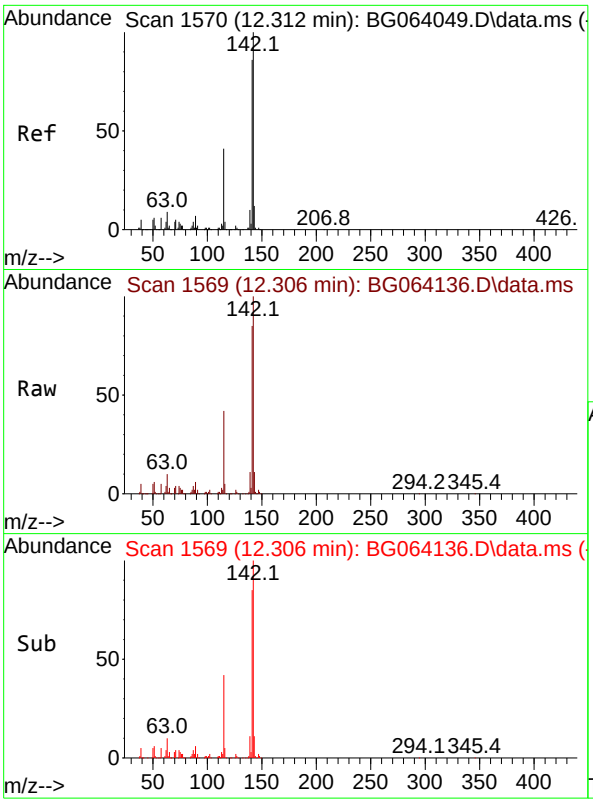


#36
4-Chloro-3-methylphenol
Concen: 49.667 ng
RT: 11.924 min Scan# 1504
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:107 Resp: 126660

Ion	Ratio	Lower	Upper
107	100		
144	23.4	18.6	28.0
142	72.8	58.0	87.0

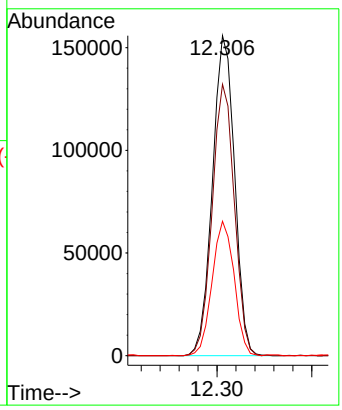




#37
2-Methylnaphthalene
Concen: 46.848 ng
RT: 12.306 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:142 Resp: 25306

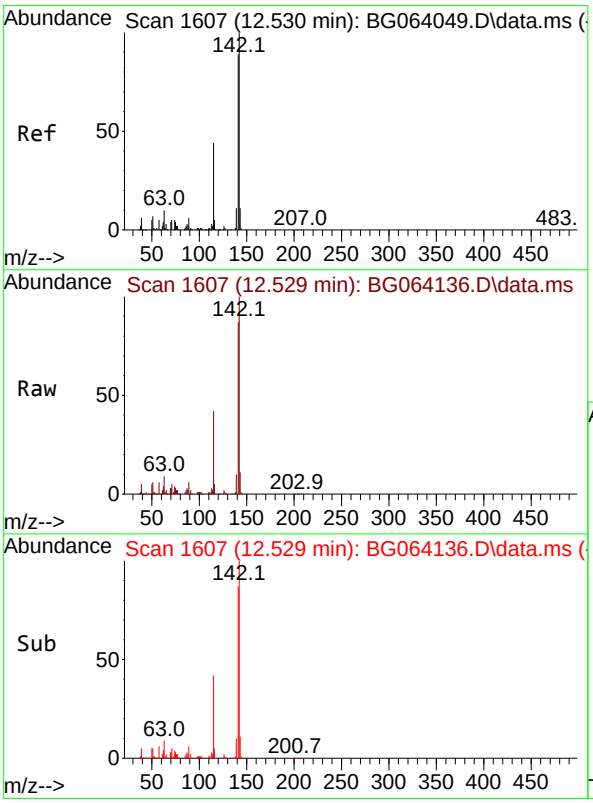
Ion	Ratio	Lower	Upper
142	100		
141	84.8	68.6	103.0
115	42.0	32.8	49.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

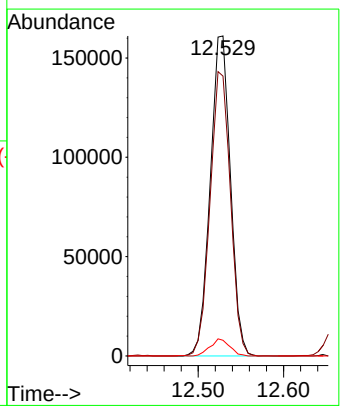
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

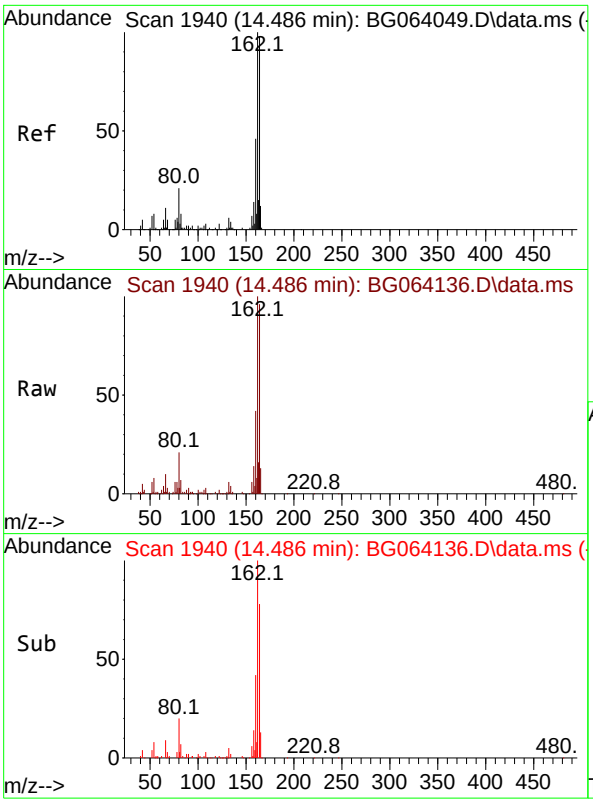


#38
1-Methylnaphthalene
Concen: 50.151 ng
RT: 12.529 min Scan# 1607
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:142 Resp: 265405

Ion	Ratio	Lower	Upper
142	100		
141	87.4	71.2	106.8
116	4.9	3.6	5.4

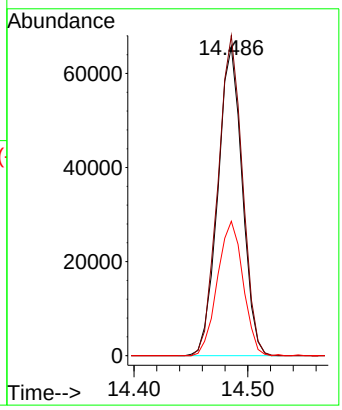




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:164 Resp: 9758

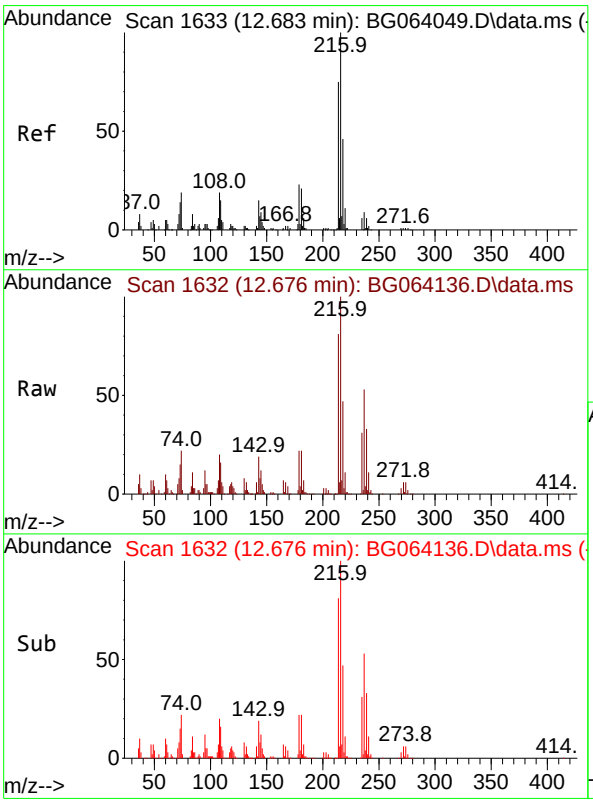
Ion	Ratio	Lower	Upper
164	100		
162	103.6	81.4	122.0
160	43.5	37.0	55.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

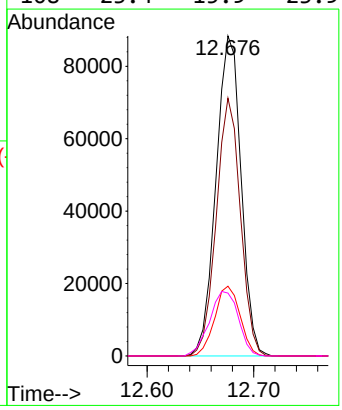
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

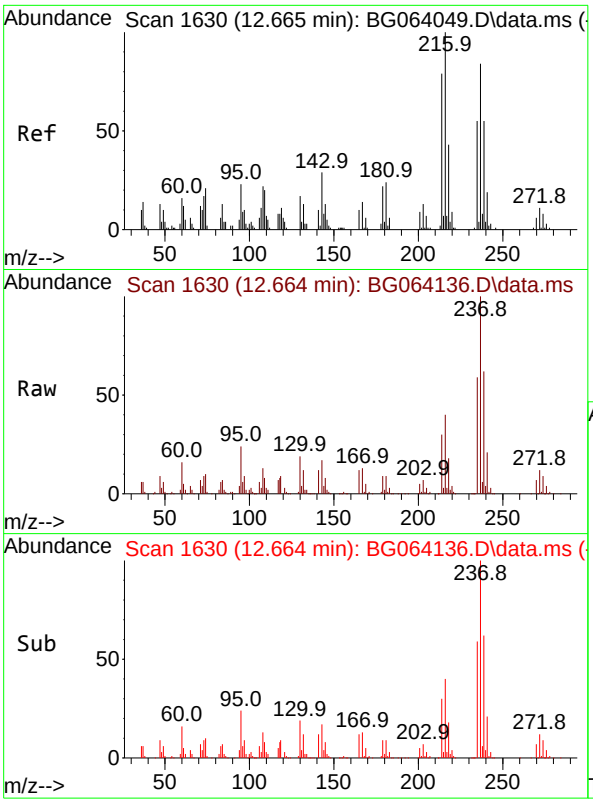


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.699 ng
RT: 12.676 min Scan# 1632
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:216 Resp: 144027

Ion	Ratio	Lower	Upper
216	100		
214	77.4	61.7	92.5
179	22.1	17.9	26.9
108	23.4	15.9	23.9

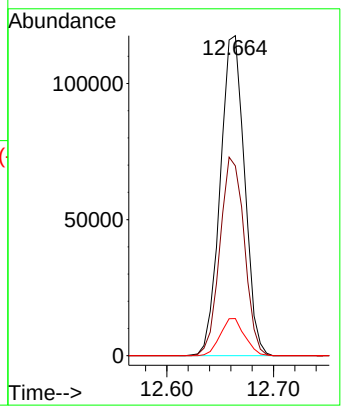




#41
Hexachlorocyclopentadiene
Concen: 237.253 ng
RT: 12.664 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:237 Resp: 18602

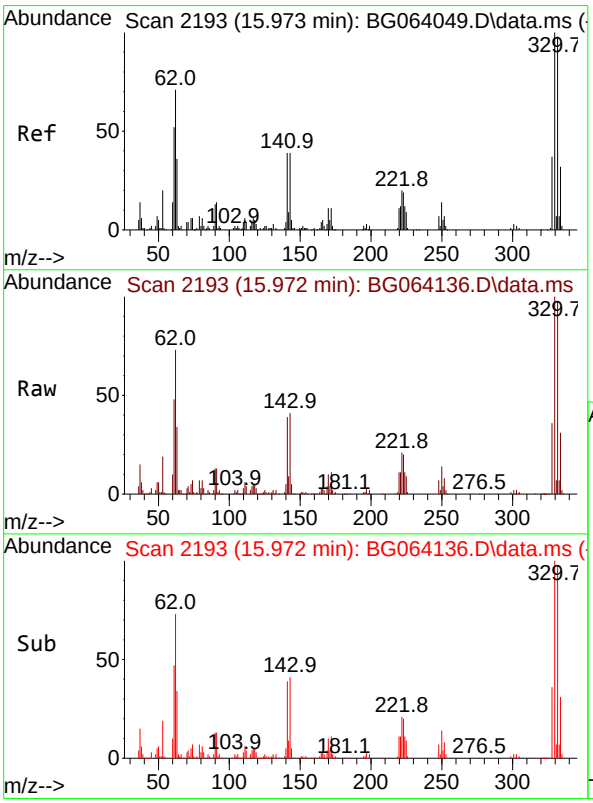
Ion	Ratio	Lower	Upper
237	100		
235	59.3	46.0	86.0
272	11.6	0.0	32.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

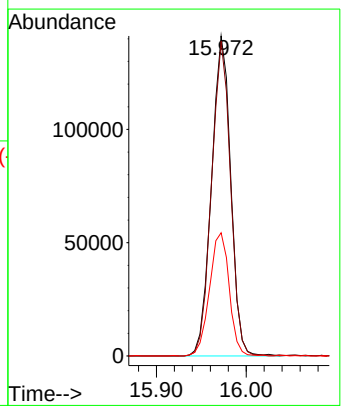
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

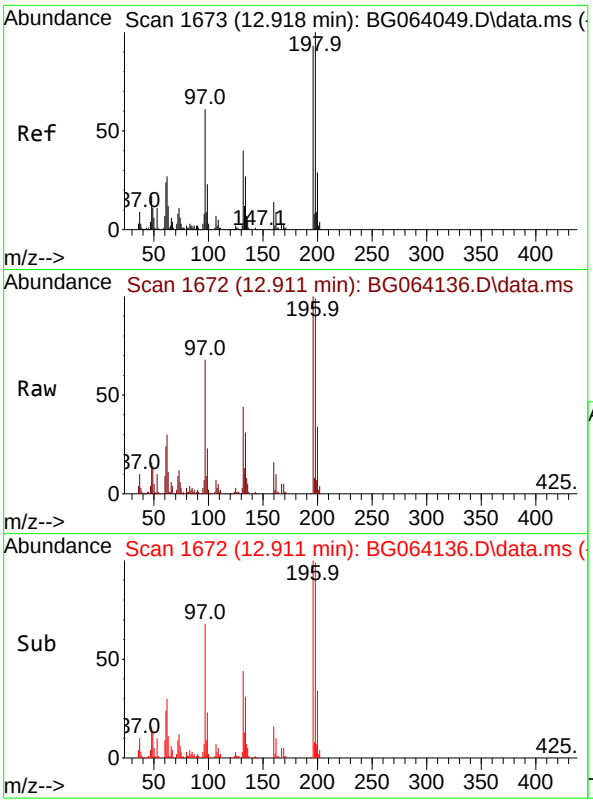


#42
2,4,6-Tribromophenol
Concen: 193.632 ng
RT: 15.972 min Scan# 2193
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:330 Resp: 210031

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.7	115.1
141	39.5	29.7	44.5

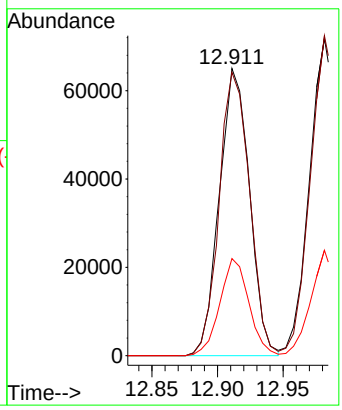




#43
2,4,6-Trichlorophenol
Concen: 63.375 ng
RT: 12.911 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:196 Resp: 10405

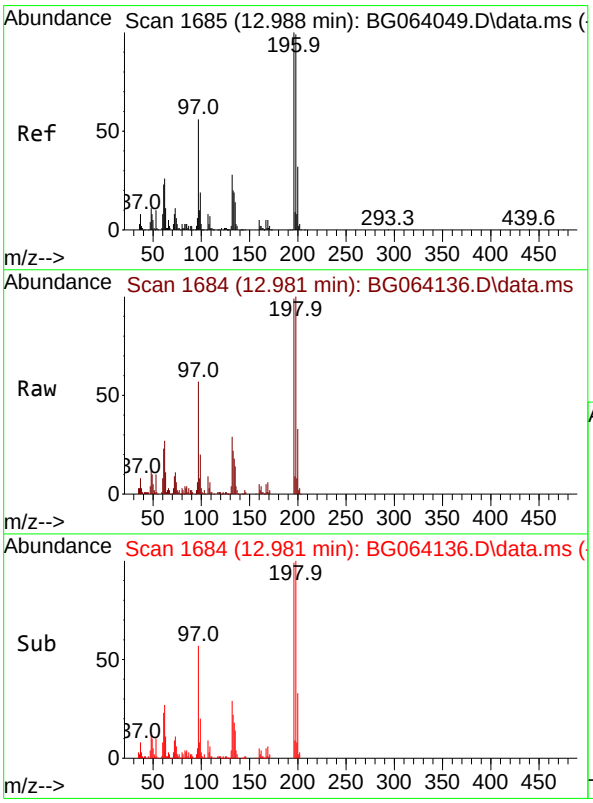
Ion	Ratio	Lower	Upper
196	100		
198	98.6	85.6	128.4
200	33.8	24.6	37.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

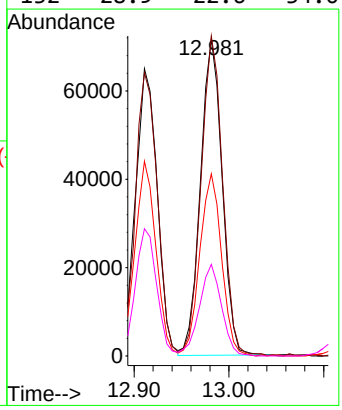
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

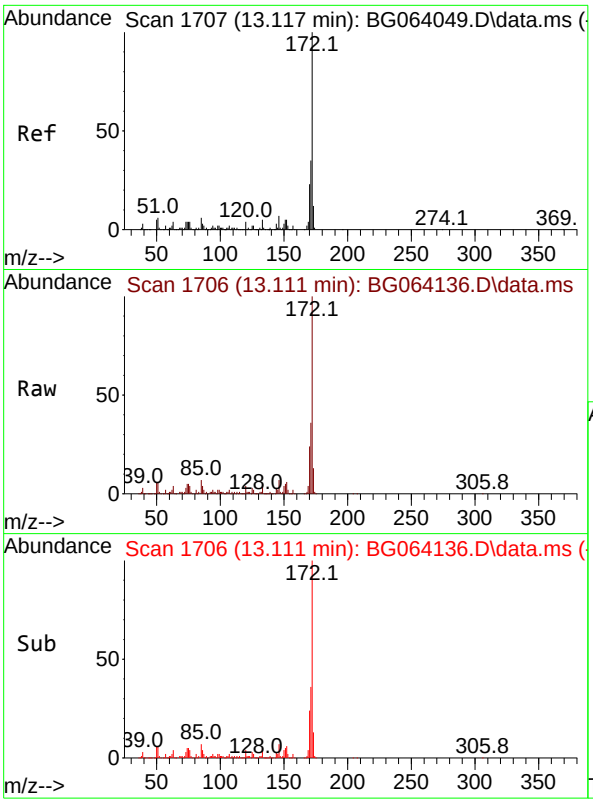


#44
2,4,5-Trichlorophenol
Concen: 62.363 ng
RT: 12.981 min Scan# 1684
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:196 Resp: 113775

Ion	Ratio	Lower	Upper
196	100		
198	100.9	79.5	119.3
97	57.4	45.2	67.8
132	28.9	22.6	34.0

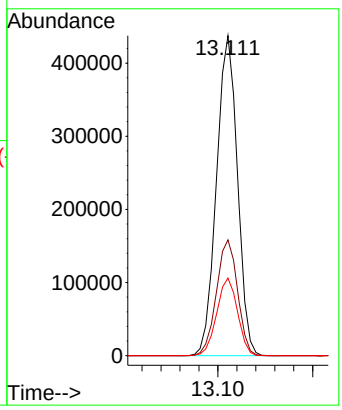




#45
2-Fluorobiphenyl
Concen: 104.553 ng
RT: 13.111 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:172 Resp: 67215

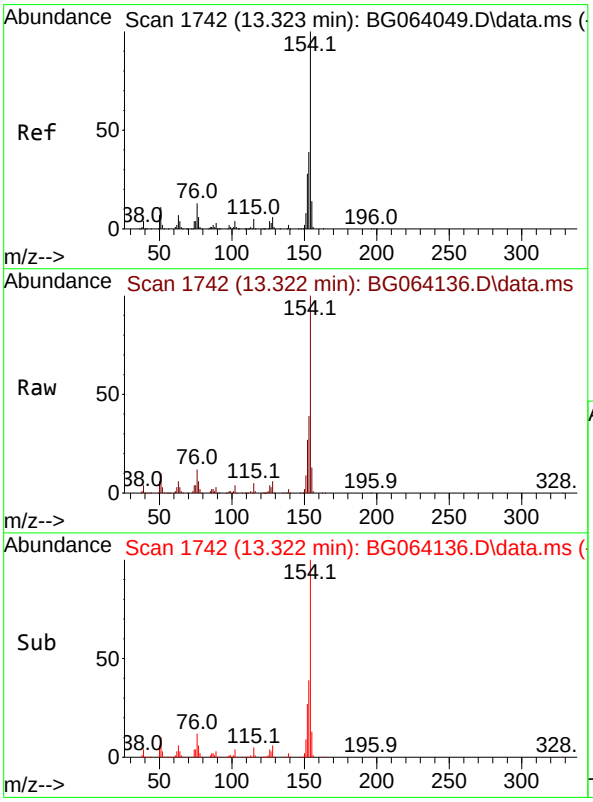
Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.0	42.0
170	24.2	18.7	28.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

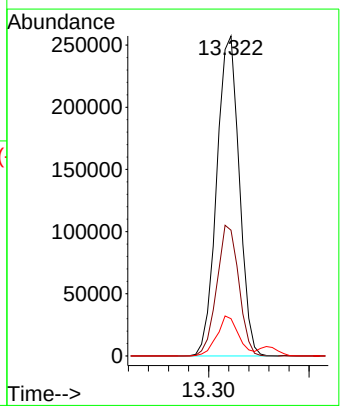
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

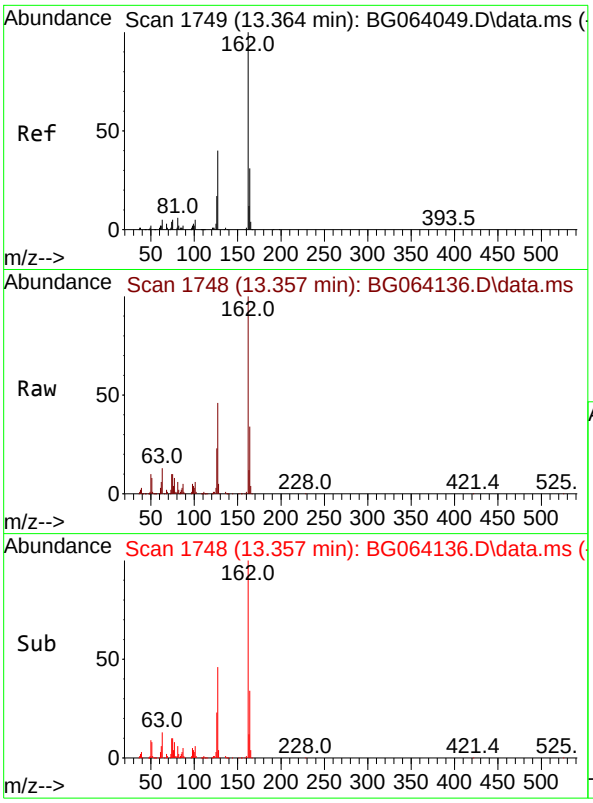


#46
1,1'-Biphenyl
Concen: 54.181 ng
RT: 13.322 min Scan# 1742
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:154 Resp: 399444

Ion	Ratio	Lower	Upper
154	100		
153	39.3	19.5	59.5
76	11.7	0.0	33.5

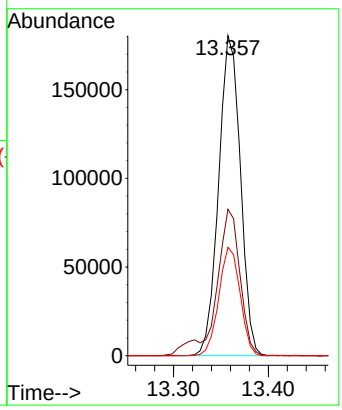




#47
2-Chloronaphthalene
Concen: 53.612 ng
RT: 13.357 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:162 Resp: 28826

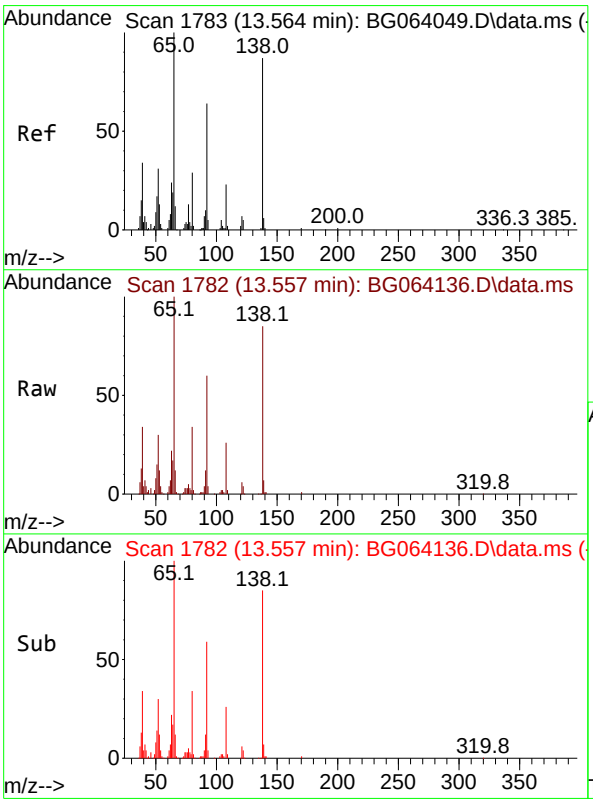
Ion	Ratio	Lower	Upper
162	100		
127	45.8	35.0	52.4
164	33.8	25.0	37.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

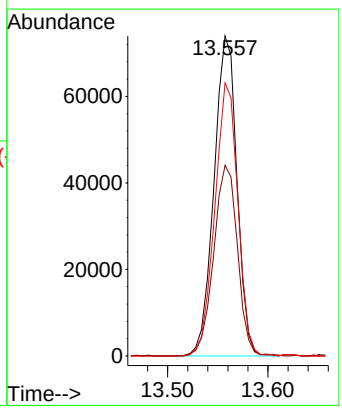
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

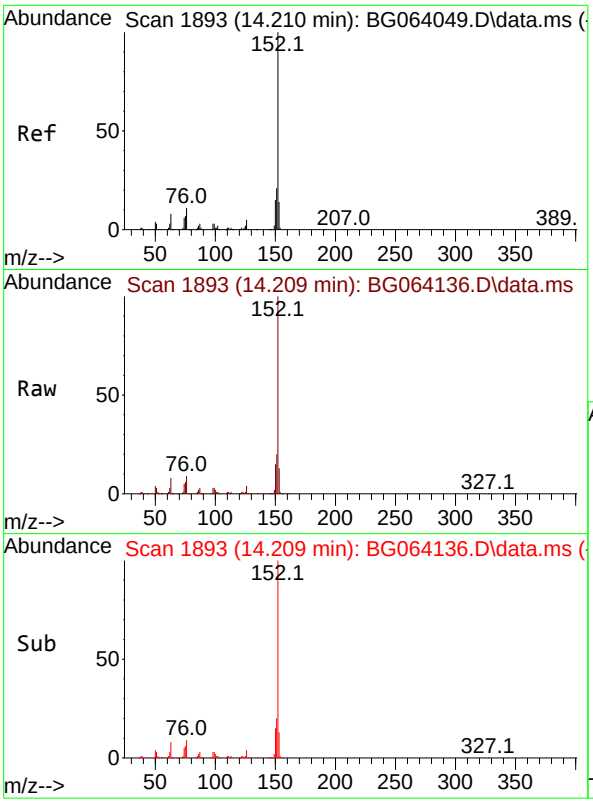


#48
2-Nitroaniline
Concen: 62.103 ng
RT: 13.557 min Scan# 1782
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 65 Resp: 117324

Ion	Ratio	Lower	Upper
65	100		
92	59.5	51.2	76.8
138	85.3	69.4	104.2

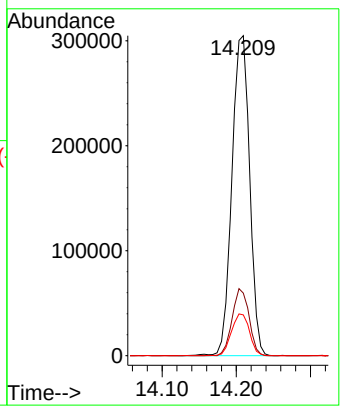




#49
Acenaphthylene
Concen: 59.444 ng
RT: 14.209 min Scan# 1
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:152 Resp: 50555

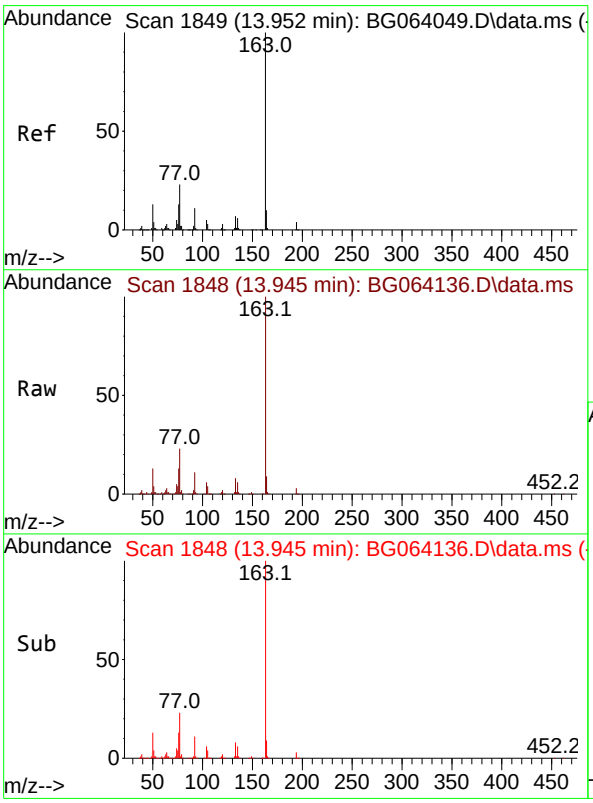
Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.4	24.6
153	12.7	10.9	16.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

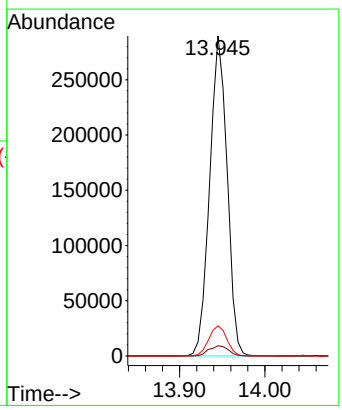
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

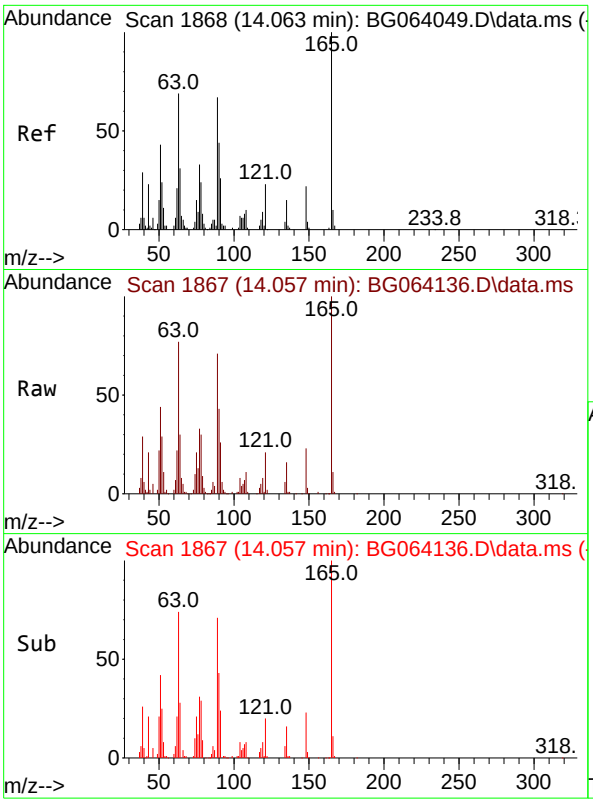


#50
Dimethylphthalate
Concen: 57.157 ng
RT: 13.945 min Scan# 1848
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:163 Resp: 411716

Ion	Ratio	Lower	Upper
163	100		
194	3.2	2.8	4.2
164	9.5	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 60.006 ng
RT: 14.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

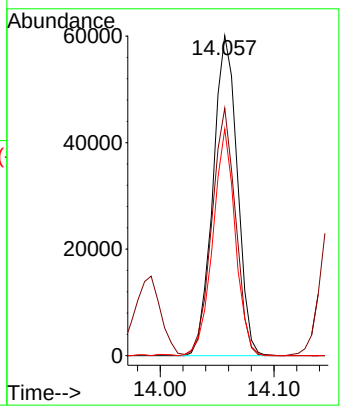
Tgt Ion:165 Resp: 8901

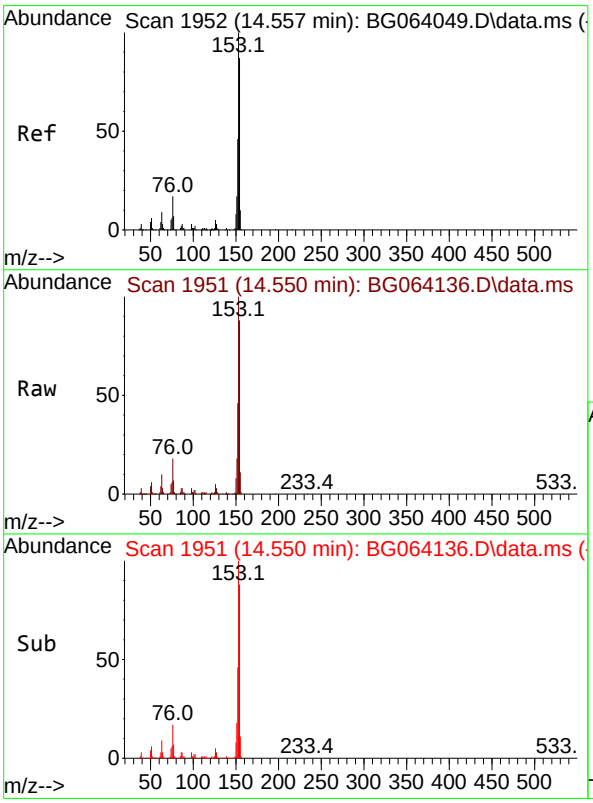
Ion	Ratio	Lower	Upper
165	100		
63	77.4	56.7	85.1
89	70.9	53.7	80.5

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

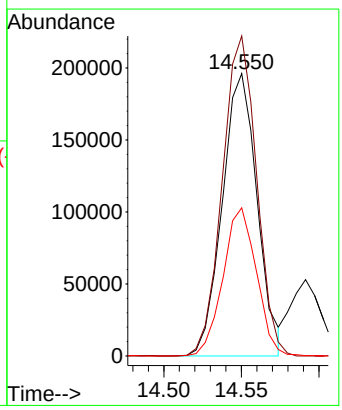


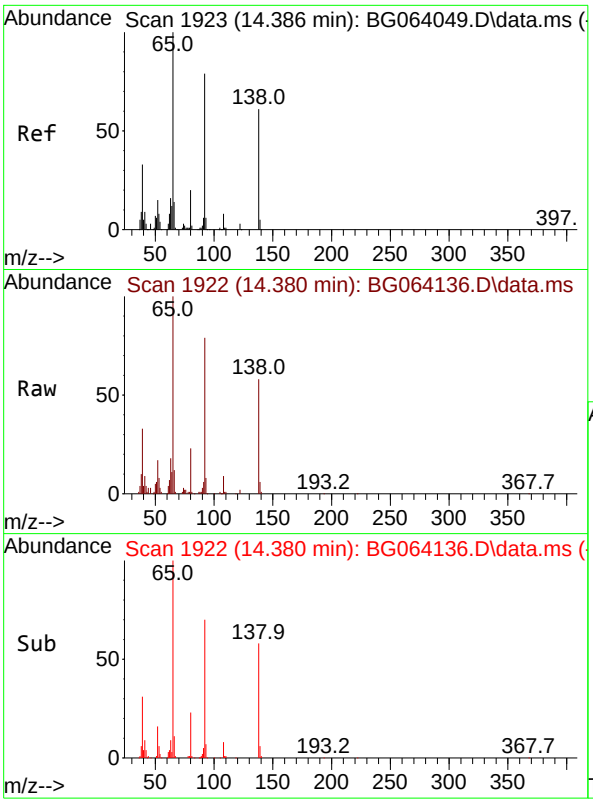


#52
Acenaphthene
Concen: 53.668 ng
RT: 14.550 min Scan# 1951
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:154 Resp: 306320

Ion	Ratio	Lower	Upper
154	100		
153	113.3	91.6	137.4
152	52.5	42.5	63.7

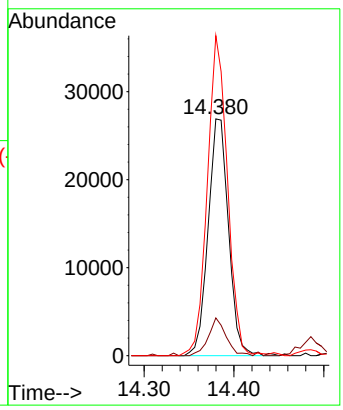




#53
3-Nitroaniline
Concen: 30.516 ng
RT: 14.380 min Scan# 1
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:138 Resp: 4248

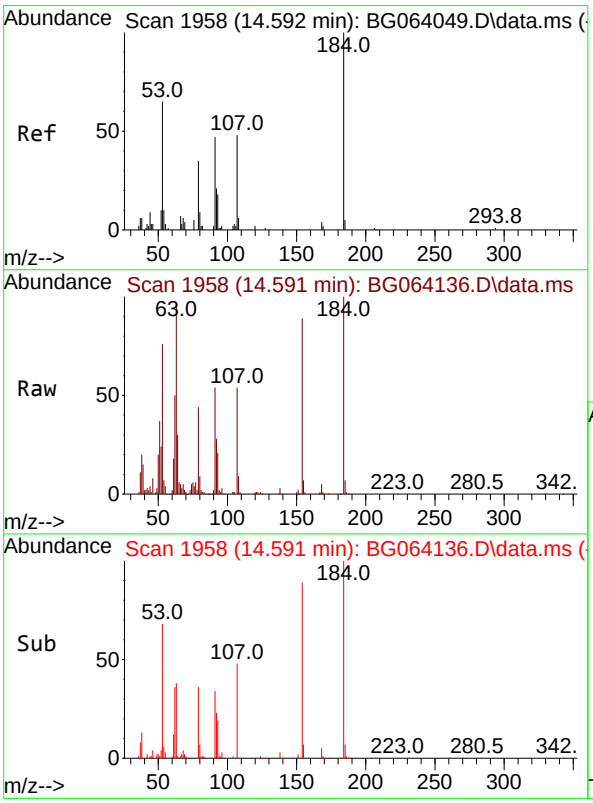
Ion	Ratio	Lower	Upper
138	100		
108	15.9	10.1	15.1#
92	135.1	104.1	156.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

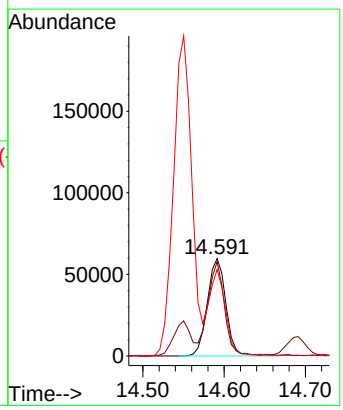
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

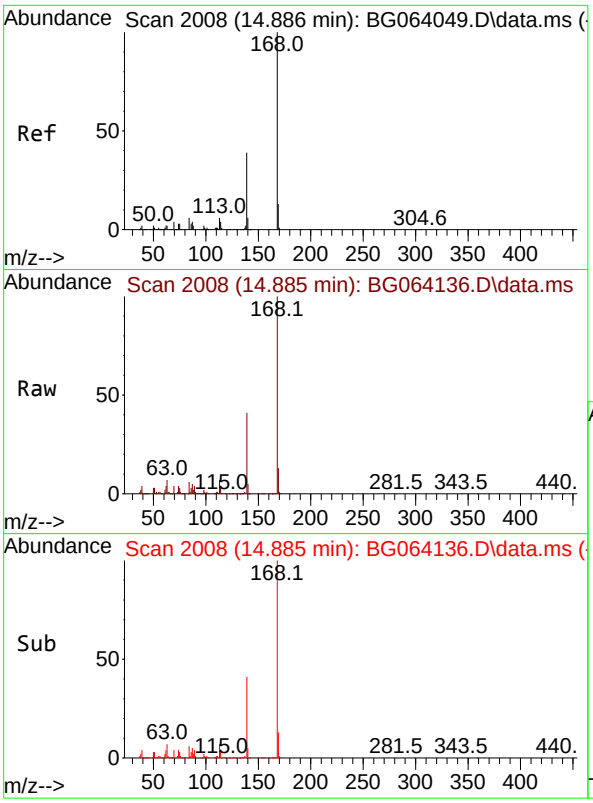


#54
2,4-Dinitrophenol
Concen: 148.264 ng
RT: 14.591 min Scan# 1958
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:184 Resp: 94881

Ion	Ratio	Lower	Upper
184	100		
63	96.6	57.5	86.3#
154	88.6	52.3	78.5#





#55
Dibenzofuran
Concen: 52.546 ng
RT: 14.885 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

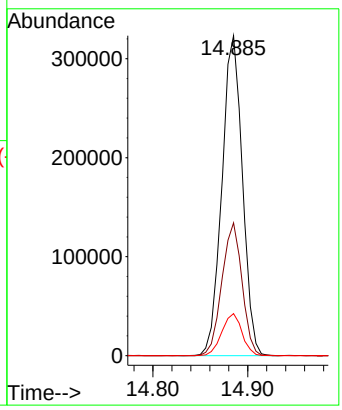
Tgt Ion:168 Resp: 48585

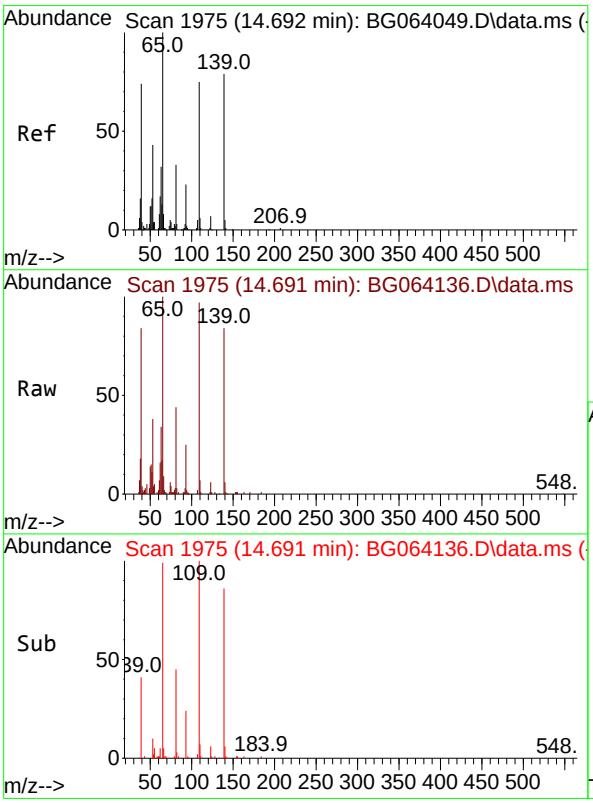
Ion	Ratio	Lower	Upper
168	100		
139	41.5	31.1	46.7
169	13.2	10.5	15.7

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

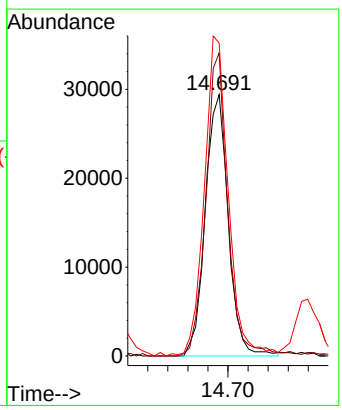


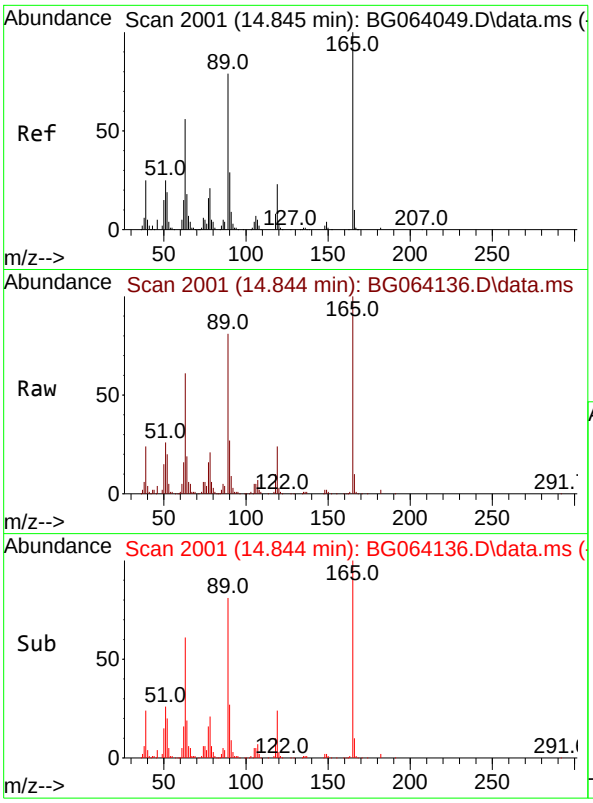


#56
4-Nitrophenol
Concen: 40.041 ng
RT: 14.691 min Scan# 1975
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:139 Resp: 46751

Ion	Ratio	Lower	Upper
139	100		
109	116.0	74.9	114.9#
65	119.7	106.8	146.8

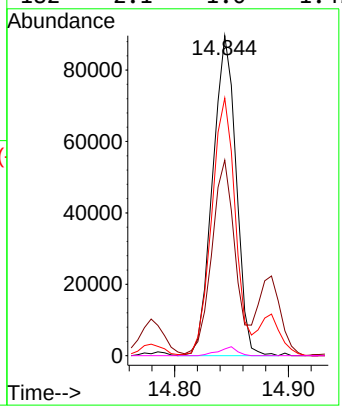




#57
2,4-Dinitrotoluene
Concen: 62.667 ng
RT: 14.844 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:165 Resp: 12879

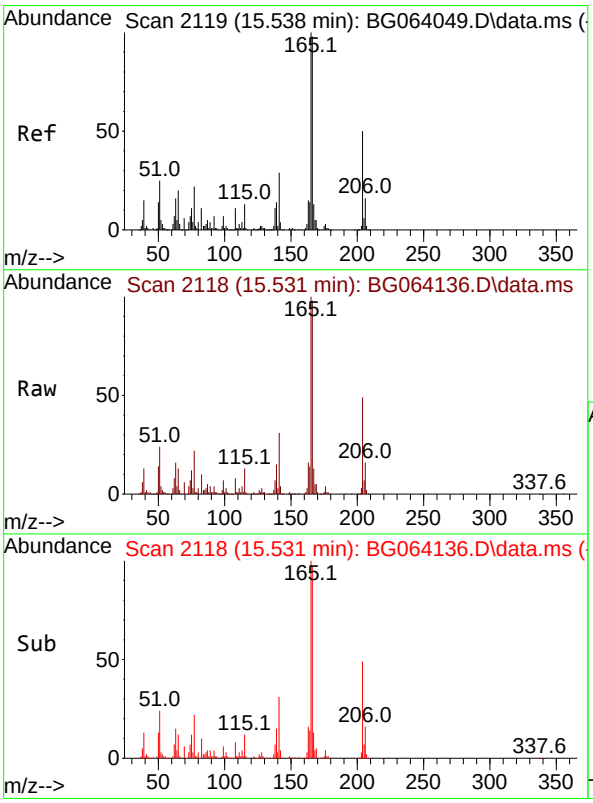
Ion	Ratio	Lower	Upper
165	100		
63	61.1	45.0	67.6
89	80.5	63.1	94.7
182	2.1	1.0	1.4#



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

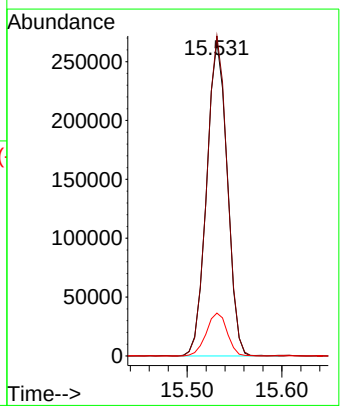
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

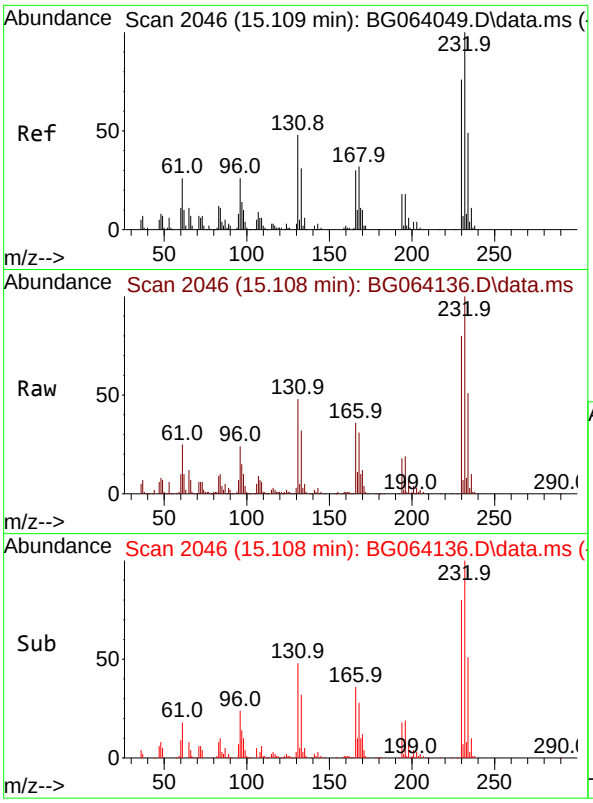


#58
Fluorene
Concen: 56.077 ng
RT: 15.531 min Scan# 2118
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:166 Resp: 403841

Ion	Ratio	Lower	Upper
166	100		
165	101.7	81.8	122.8
167	13.6	10.8	16.2

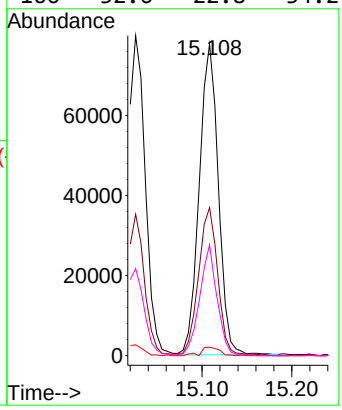




#59
2,3,4,6-Tetrachlorophenol
Concen: 64.466 ng
RT: 15.108 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:232 Resp: 11465

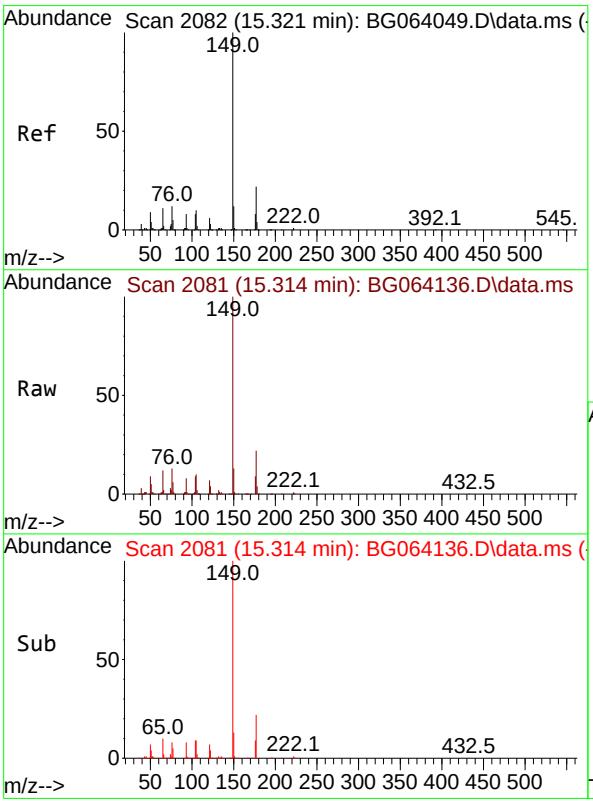
Ion	Ratio	Lower	Upper
232	100		
131	48.4	36.3	54.5
130	2.7	1.9	2.9
166	32.6	22.8	34.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

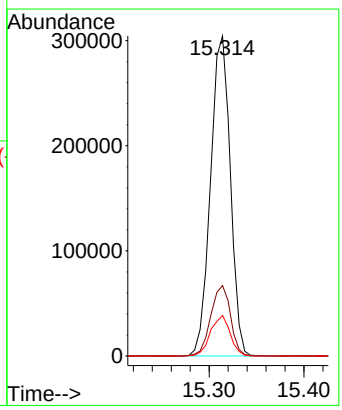
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

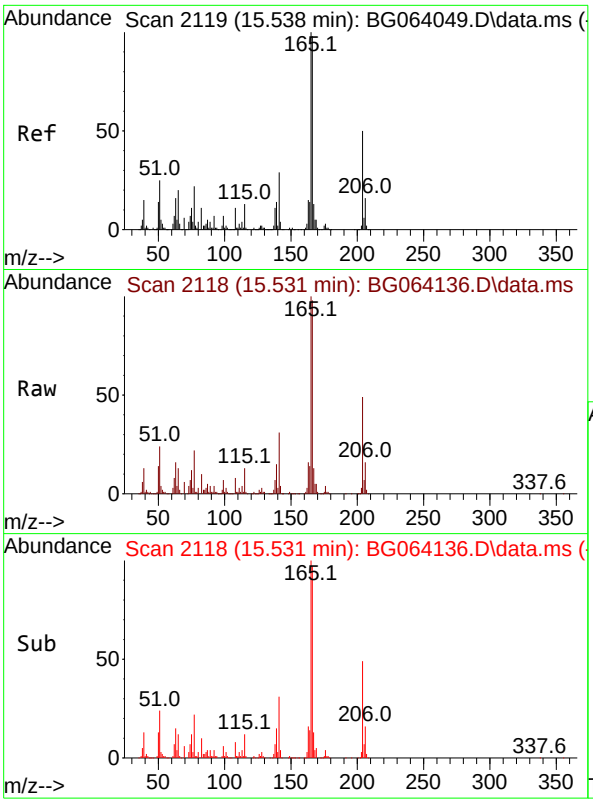


#60
Diethylphthalate
Concen: 56.347 ng
RT: 15.314 min Scan# 2081
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:149 Resp: 440628

Ion	Ratio	Lower	Upper
149	100		
177	22.0	17.4	26.2
150	12.7	9.4	14.2

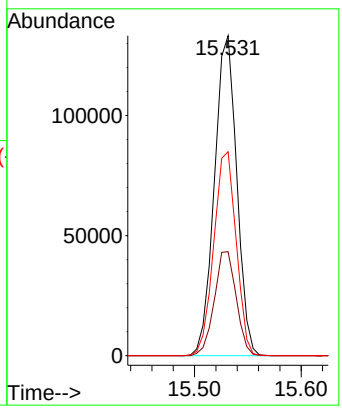




#61
4-Chlorophenyl-phenylether
Concen: 54.171 ng
RT: 15.531 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

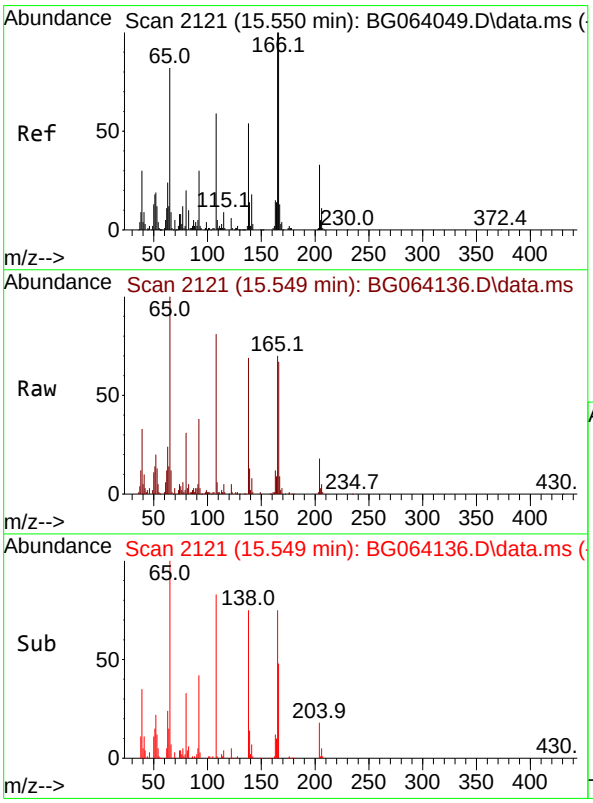
Tgt Ion:204 Resp: 19386

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.5	38.3
141	63.7	45.4	68.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

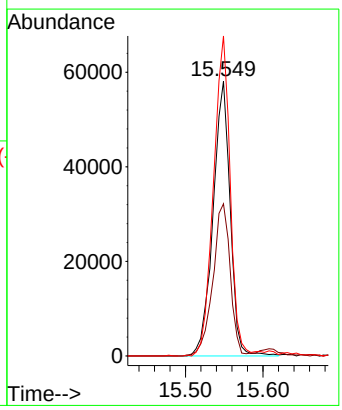
Manual Integrations APPROVED
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

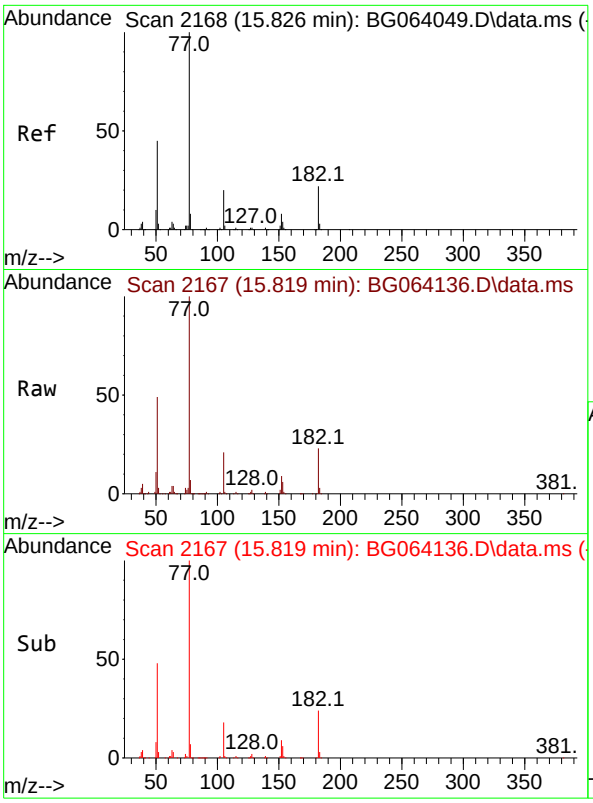


#62
4-Nitroaniline
Concen: 59.328 ng
RT: 15.549 min Scan# 2121
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:138 Resp: 89173

Ion	Ratio	Lower	Upper
138	100		
92	55.4	36.1	76.1
108	116.5	87.9	127.9

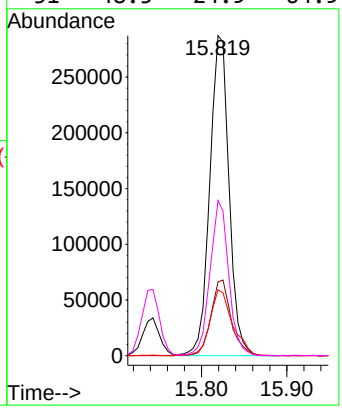




#63
Azobenzene
Concen: 54.036 ng
RT: 15.819 min Scan# 21
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion: 77 Resp: 45090

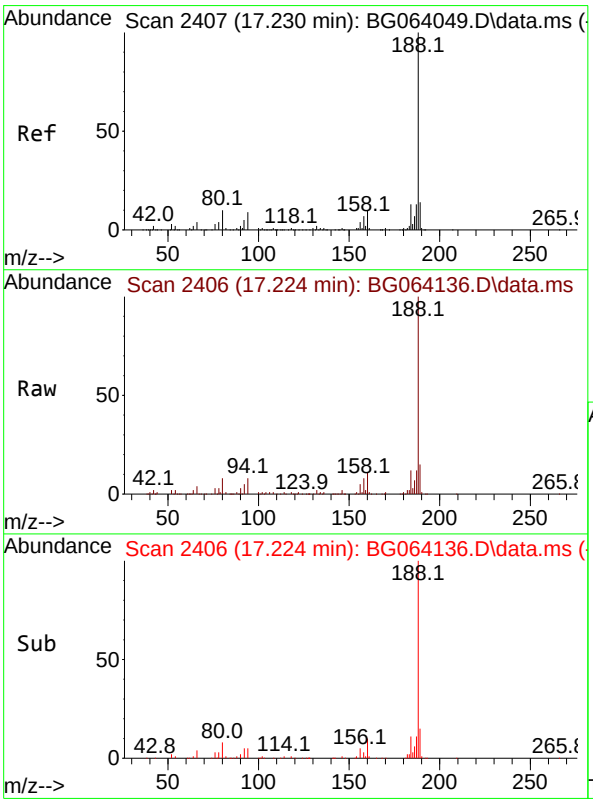
Ion	Ratio	Lower	Upper
77	100		
182	23.1	2.4	42.4
105	20.6	0.0	40.0
51	48.5	24.9	64.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

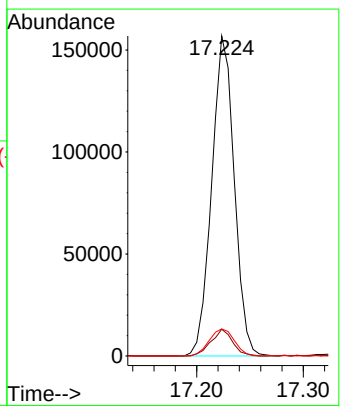
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

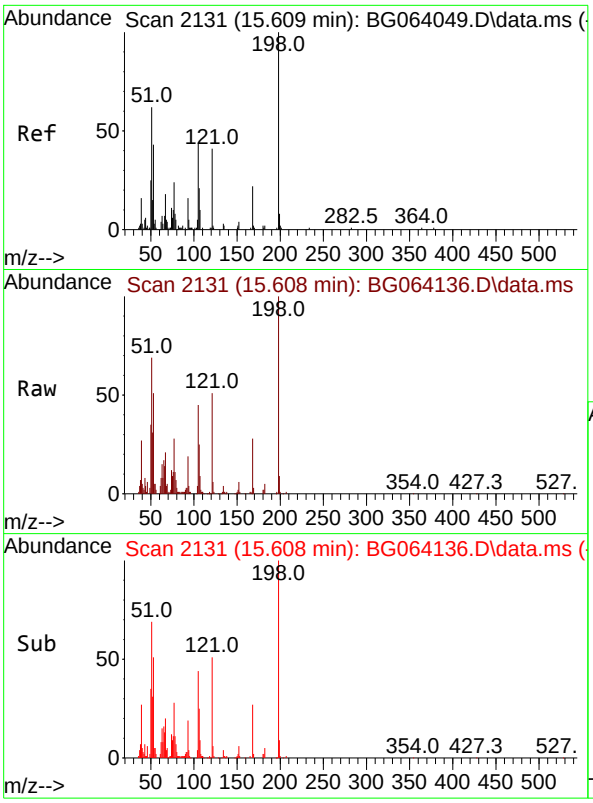


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 2406
Delta R.T. -0.006 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:188 Resp: 230185

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.9	10.3
80	8.5	8.1	12.1

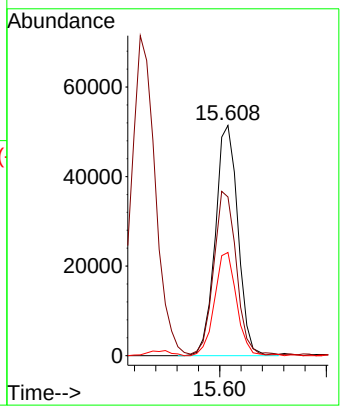




#65
4,6-Dinitro-2-methylphenol
Concen: 71.307 ng
RT: 15.608 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:198 Resp: 7566

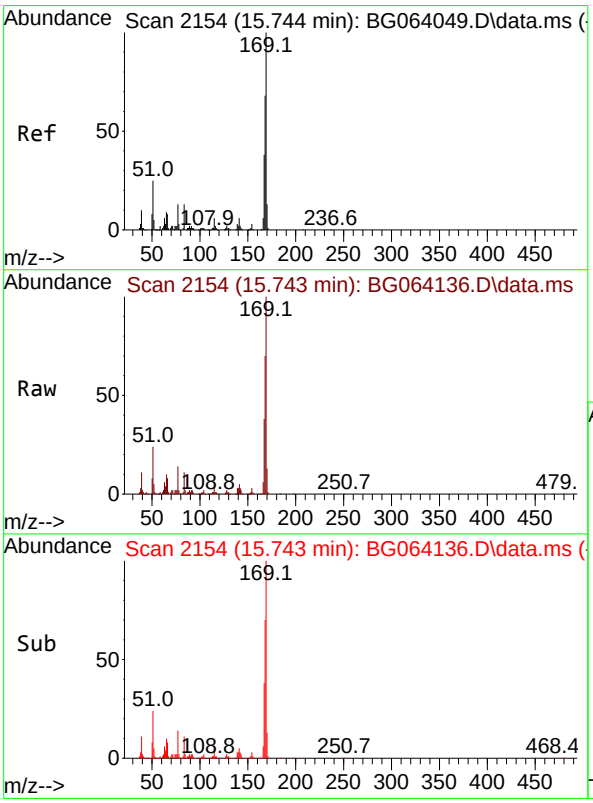
Ion	Ratio	Lower	Upper
198	100		
51	69.0	45.6	85.6
105	44.8	25.3	65.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

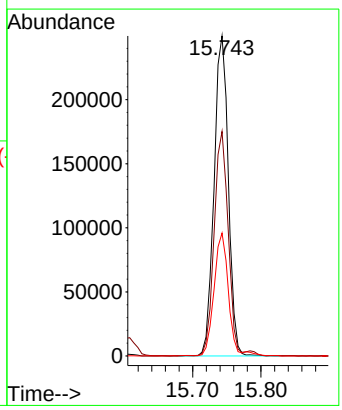
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

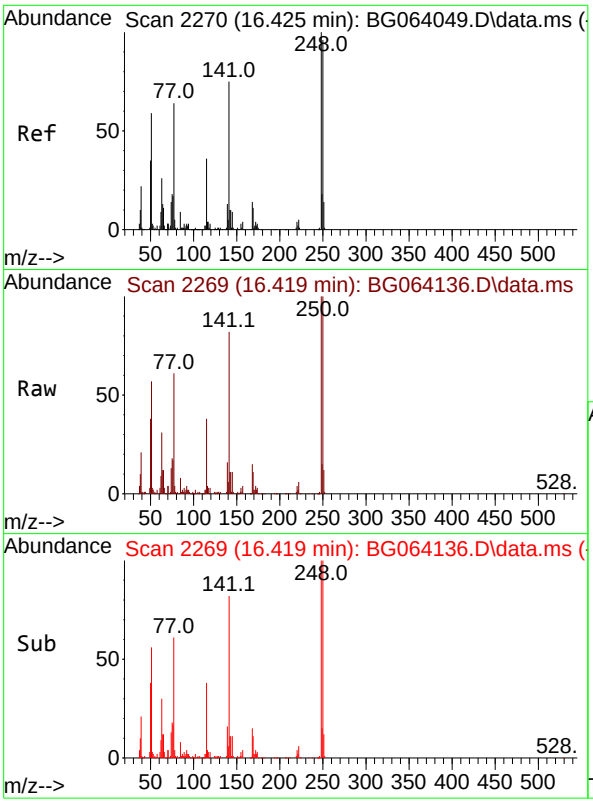


#66
n-Nitrosodiphenylamine
Concen: 55.739 ng
RT: 15.743 min Scan# 2154
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:169 Resp: 363176

Ion	Ratio	Lower	Upper
169	100		
168	70.1	54.1	81.1
167	38.4	30.3	45.5





#67
4-Bromophenyl-phenylether
Concen: 57.329 ng
RT: 16.419 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

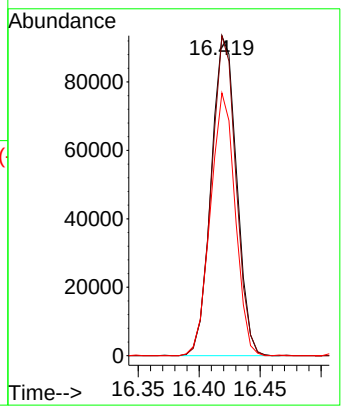
Tgt Ion:248 Resp: 13515

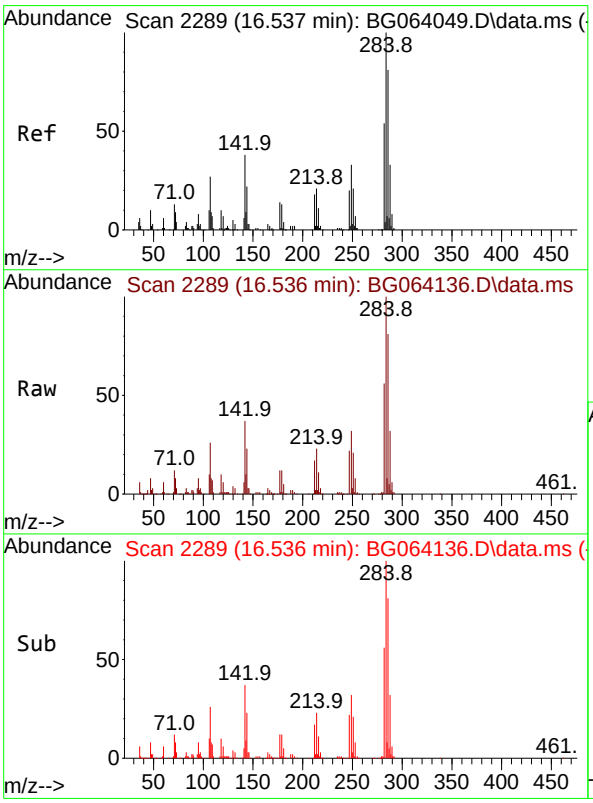
Ion	Ratio	Lower	Upper
248	100		
250	99.9	77.1	115.7
141	82.1	59.8	89.8

Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

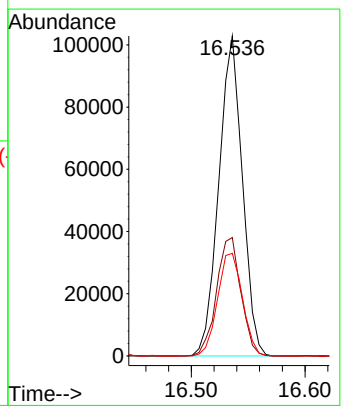


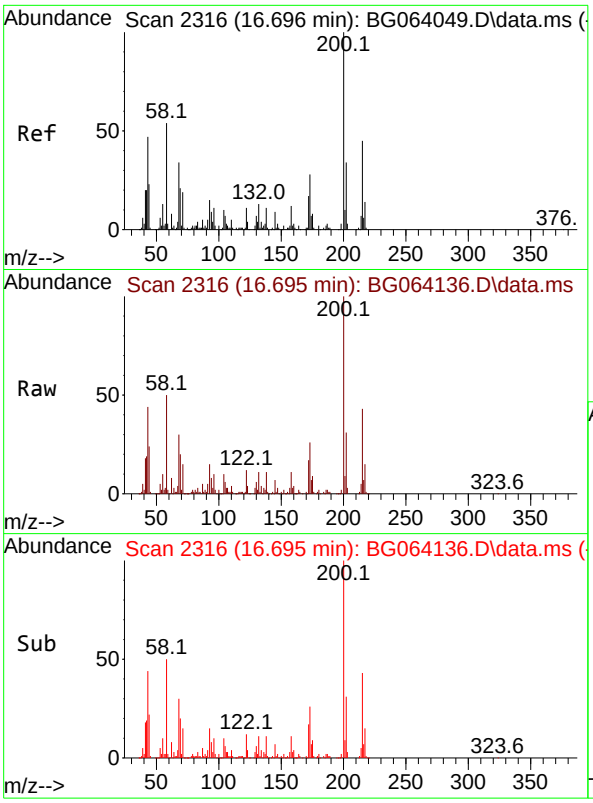


#68
Hexachlorobenzene
Concen: 56.101 ng
RT: 16.536 min Scan# 2289
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:284 Resp: 148071

Ion	Ratio	Lower	Upper
284	100		
142	37.0	30.6	45.8
249	32.0	26.6	39.8

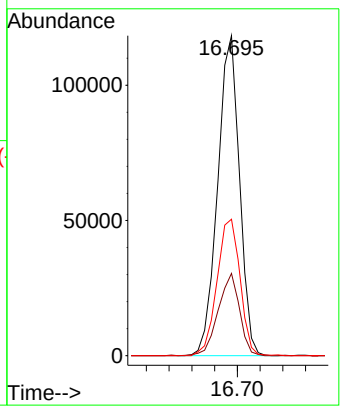




#69
Atrazine
Concen: 82.233 ng
RT: 16.695 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:200 Resp: 15765

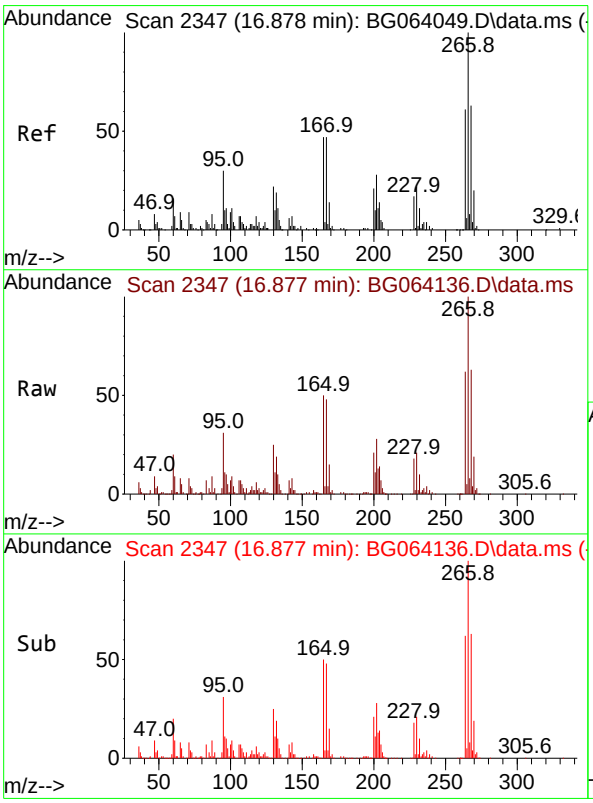
Ion	Ratio	Lower	Upper
200	100		
173	25.7	8.2	48.2
215	42.6	25.5	65.5



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

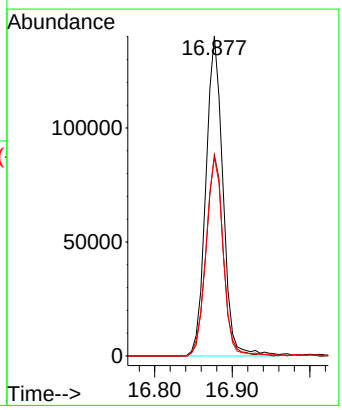
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

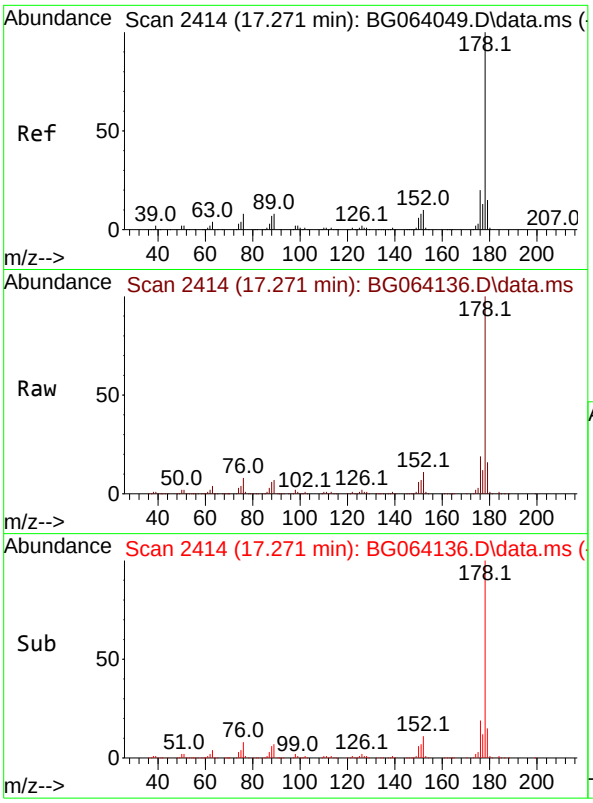


#70
Pentachlorophenol
Concen: 131.048 ng
RT: 16.877 min Scan# 2347
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:266 Resp: 214754

Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.2	75.4
264	62.0	48.9	73.3

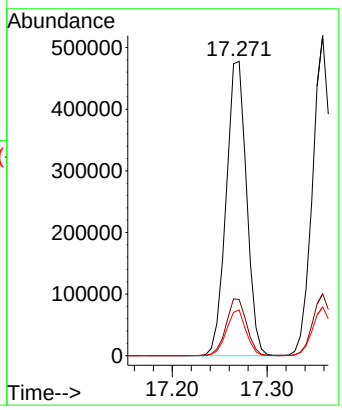




#71
Phenanthrene
Concen: 58.220 ng
RT: 17.271 min Scan# 24
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:178 Resp: 71480

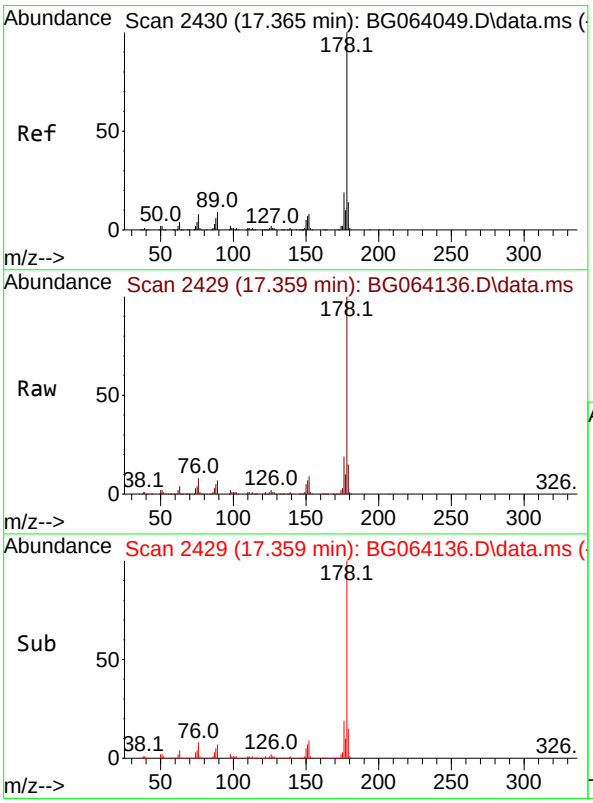
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.9	23.9
179	15.5	12.2	18.2



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

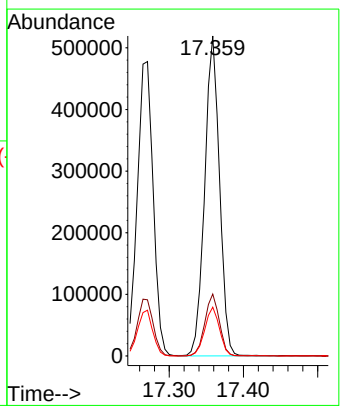
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

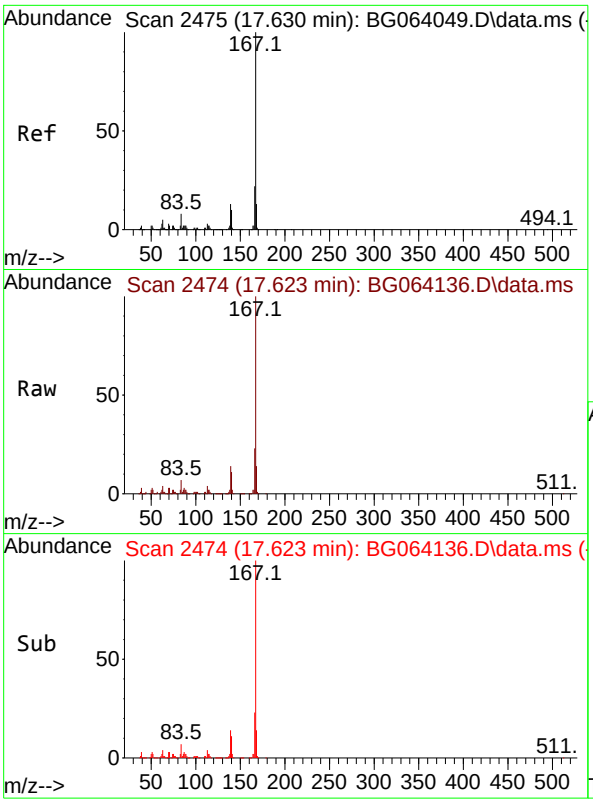


#72
Anthracene
Concen: 59.111 ng
RT: 17.359 min Scan# 2429
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:178 Resp: 721645

Ion	Ratio	Lower	Upper
178	100		
176	19.4	14.8	22.2
179	15.3	11.5	17.3

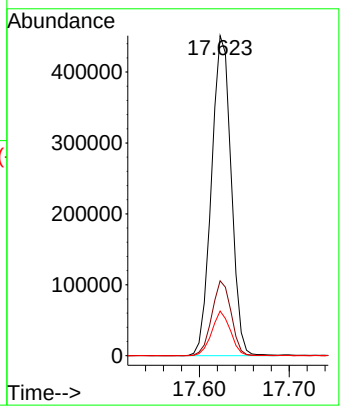




#73
Carbazole
Concen: 60.323 ng
RT: 17.623 min Scan# 24
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:167 Resp: 68758

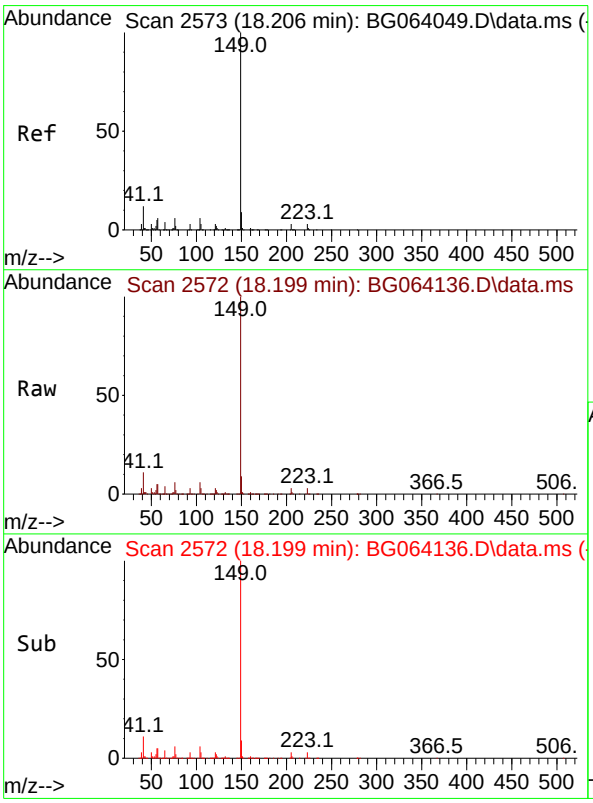
Ion	Ratio	Lower	Upper
167	100		
166	23.4	18.0	27.0
139	14.0	10.6	15.8



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

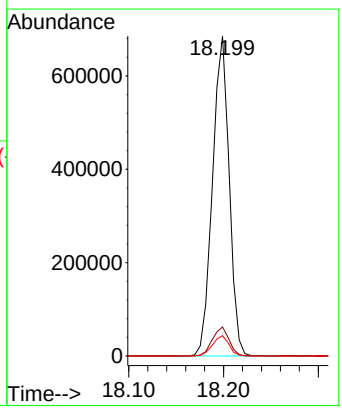
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

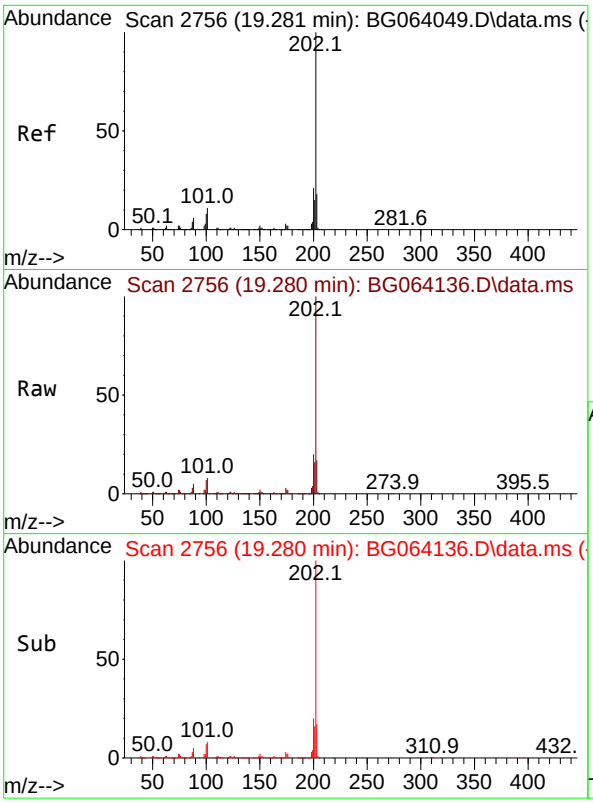


#74
Di-n-butylphthalate
Concen: 62.339 ng
RT: 18.199 min Scan# 2572
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:149 Resp: 836411

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.0
104	6.3	5.0	7.6

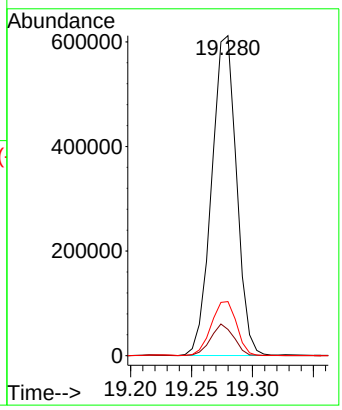




#75
Fluoranthene
Concen: 58.612 ng
RT: 19.280 min Scan# 2
Delta R.T. -0.001 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:202 Resp: 86755

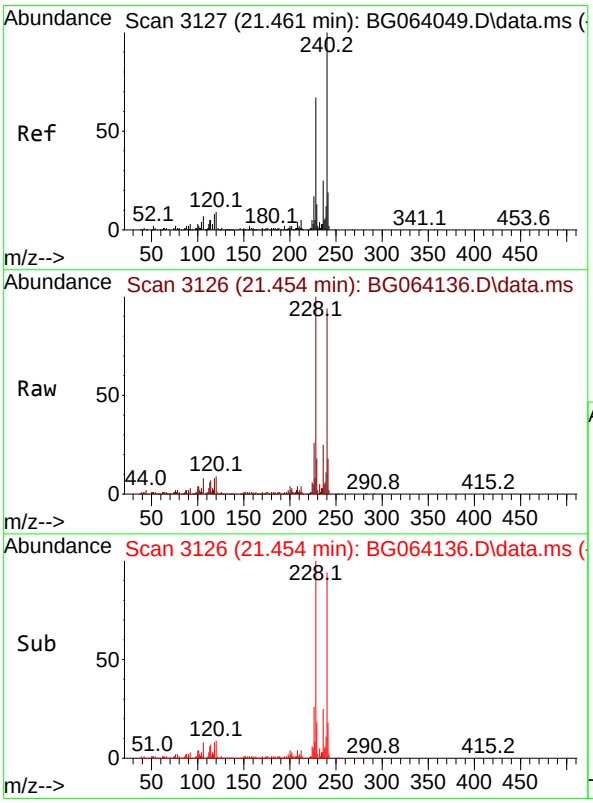
Ion	Ratio	Lower	Upper
202	100		
101	8.2	0.0	30.5
203	16.9	0.0	38.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

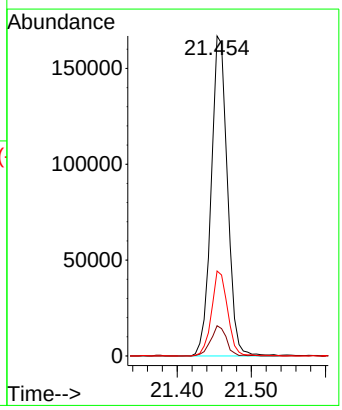
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

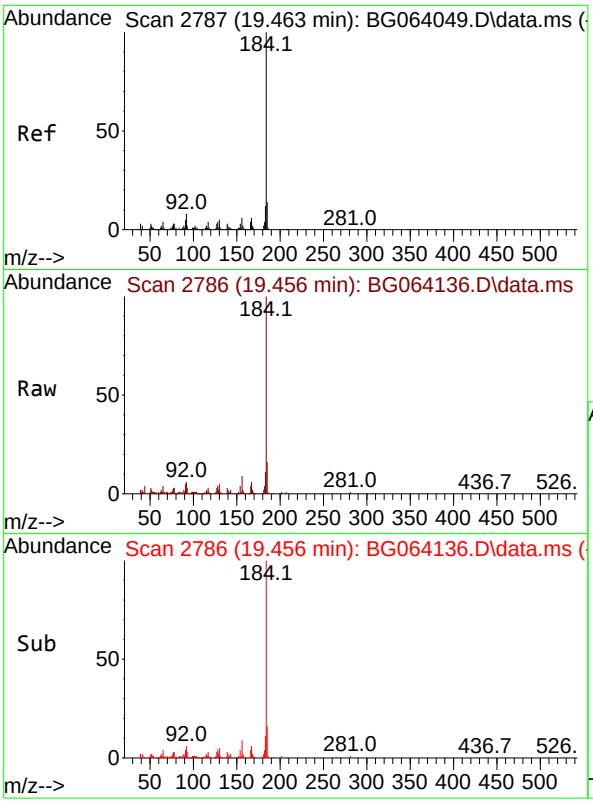


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.454 min Scan# 3126
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:240 Resp: 254217

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.2	10.8
236	26.5	20.2	30.2

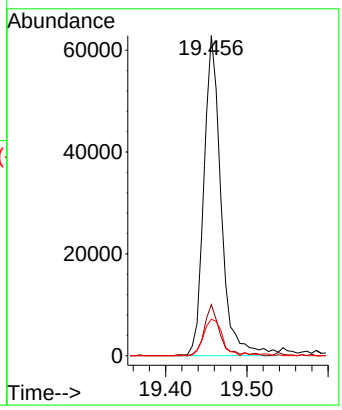




#77
Benzidine
Concen: 26.312 ng
RT: 19.456 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:184 Resp: 9262

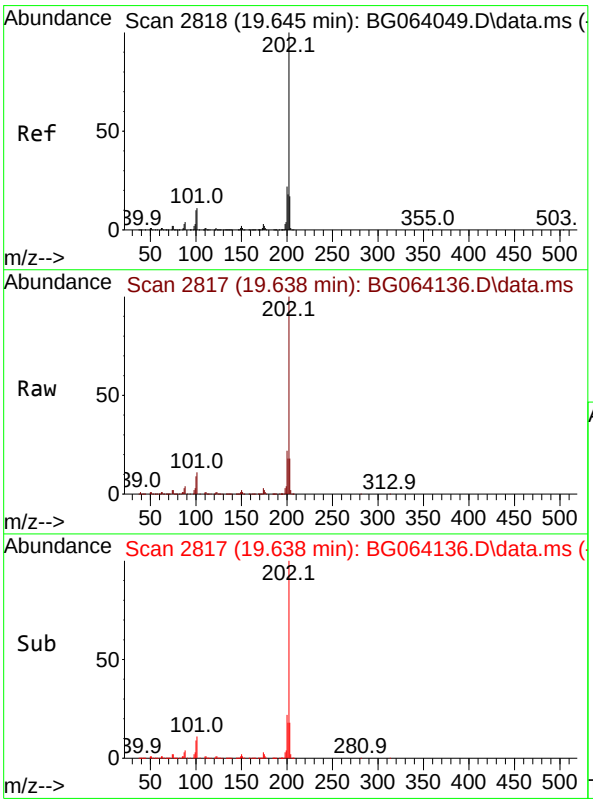
Ion	Ratio	Lower	Upper
184	100		
185	16.0	11.3	16.9
183	11.4	9.5	14.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

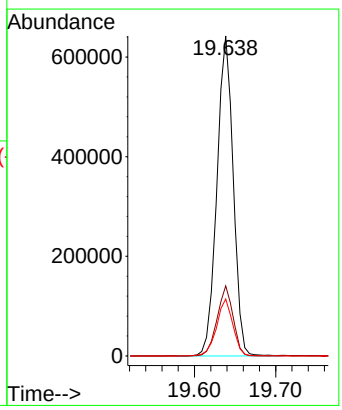
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

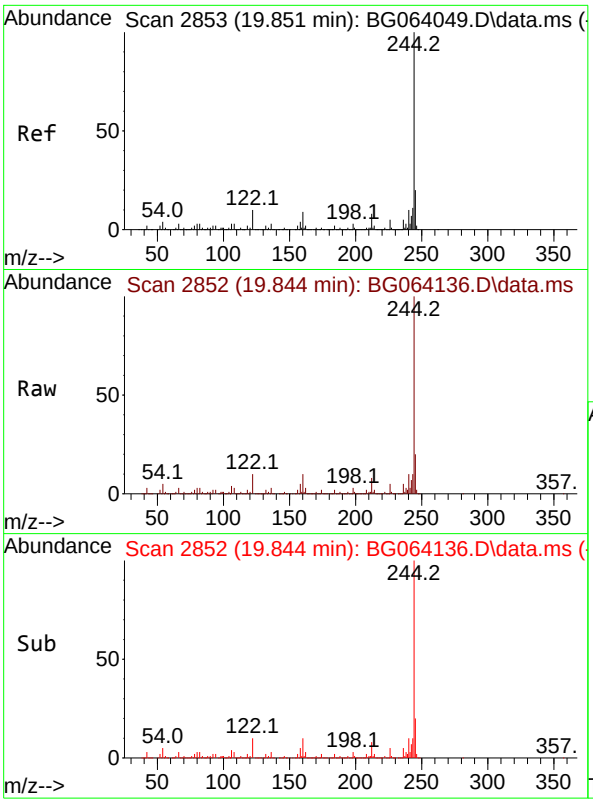


#78
Pyrene
Concen: 54.732 ng
RT: 19.638 min Scan# 2817
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:202 Resp: 896907

Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.3	25.9
203	17.8	13.6	20.4

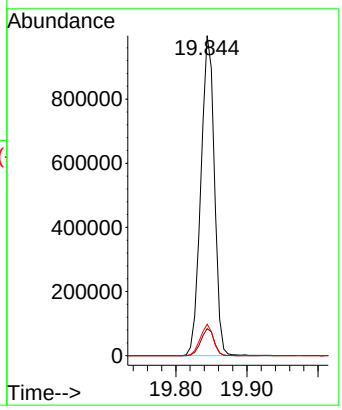




#79
Terphenyl-d14
Concen: 105.304 ng
RT: 19.844 min Scan# 2
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:244 Resp: 132394

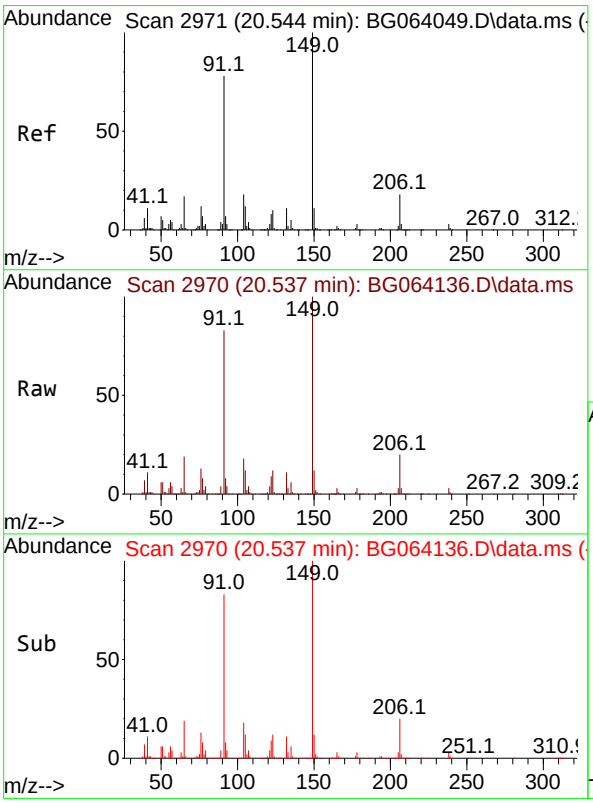
Ion	Ratio	Lower	Upper
244	100		
212	8.4	6.2	9.4
122	9.8	8.0	12.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

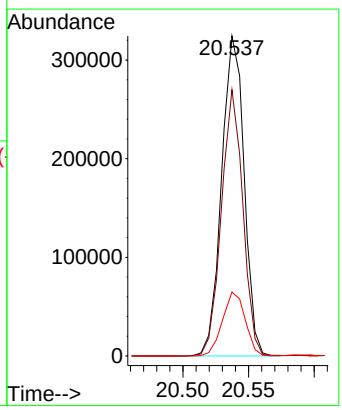
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

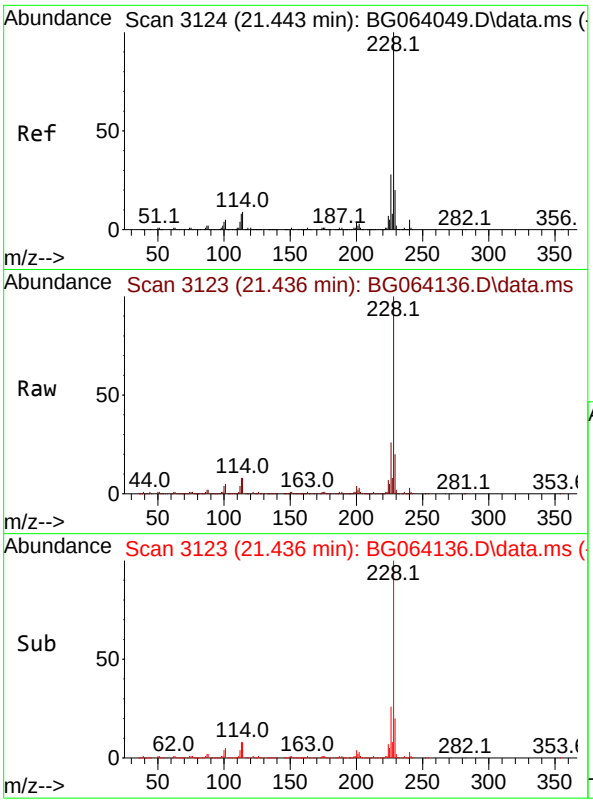


#80
Butylbenzylphthalate
Concen: 61.723 ng
RT: 20.537 min Scan# 2970
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:149 Resp: 386471

Ion	Ratio	Lower	Upper
149	100		
91	83.2	62.0	93.0
206	19.9	14.6	21.8

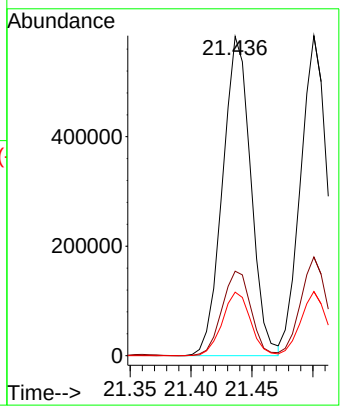




#81
Benzo(a)anthracene
Concen: 57.917 ng
RT: 21.436 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:228 Resp: 94314

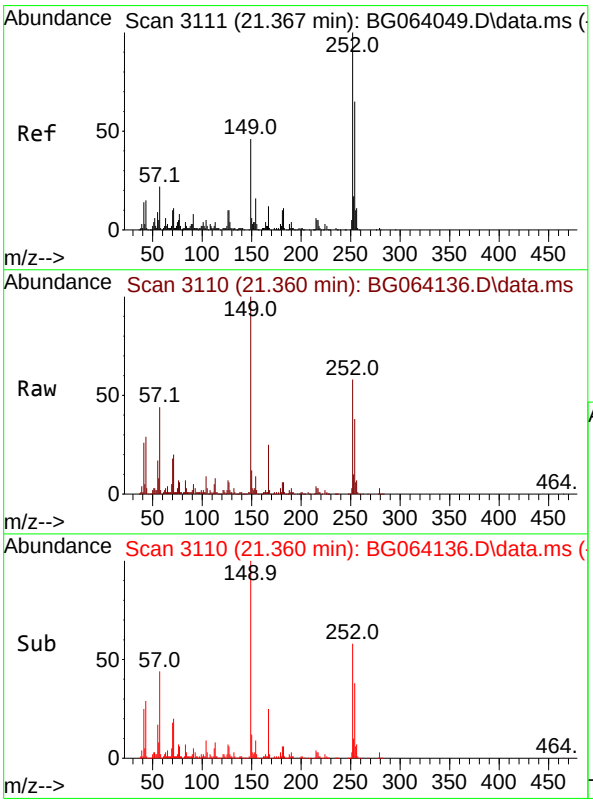
Ion	Ratio	Lower	Upper
228	100		
226	26.5	22.2	33.2
229	19.9	16.4	24.6



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

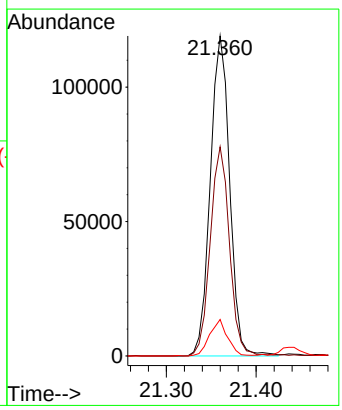
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

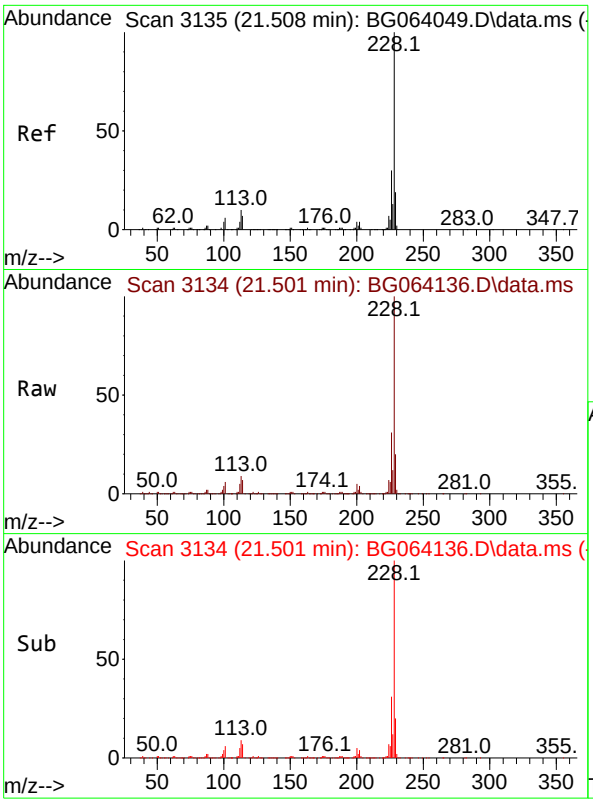


#82
3,3'-Dichlorobenzidine
Concen: 33.828 ng
RT: 21.360 min Scan# 3110
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 178281

Ion	Ratio	Lower	Upper
252	100		
254	65.4	52.1	78.1
126	11.4	7.8	11.8

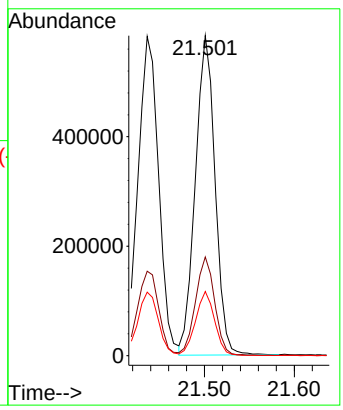




#83
Chrysene
Concen: 54.829 ng
RT: 21.501 min Scan# 3
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:228 Resp: 89050

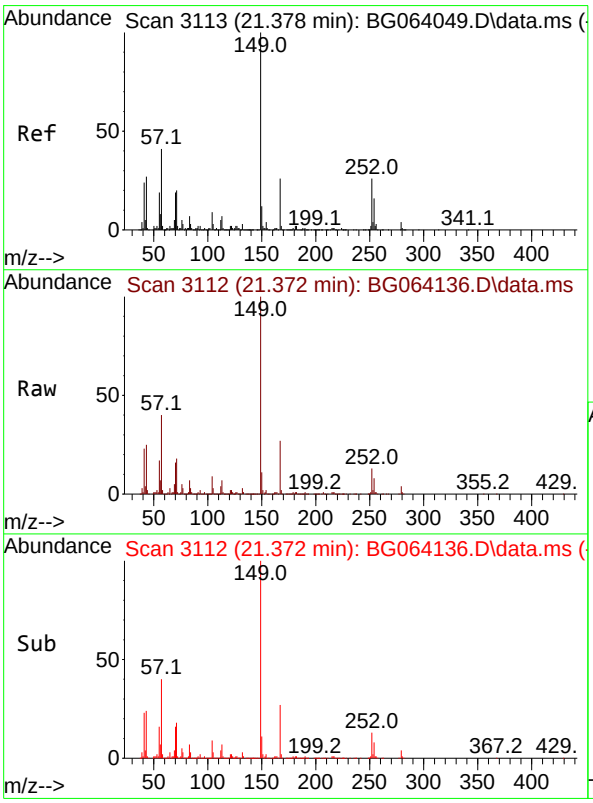
Ion	Ratio	Lower	Upper
228	100		
226	30.8	23.9	35.9
229	20.1	15.3	22.9



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations APPROVED

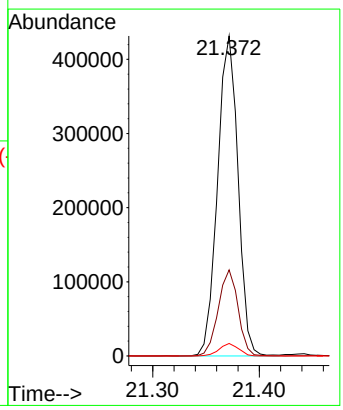
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

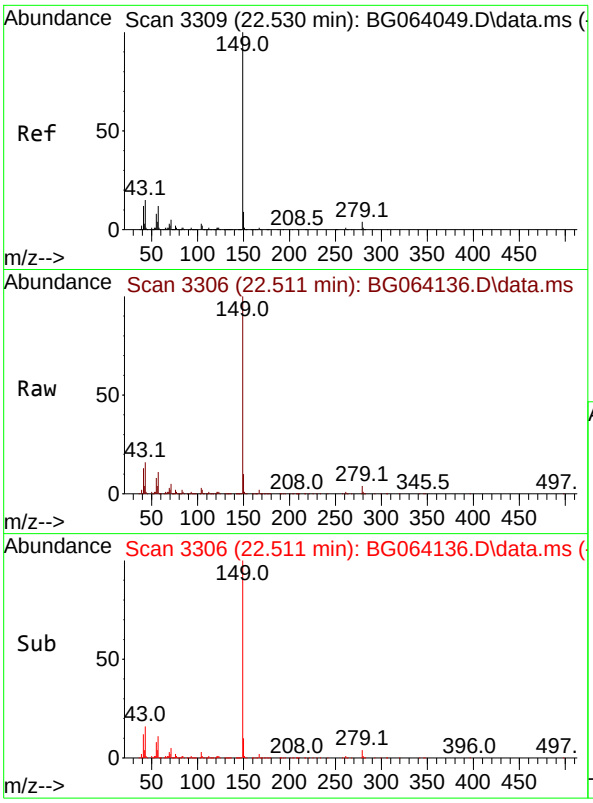


#84
Bis(2-ethylhexyl)phthalate
Concen: 65.138 ng
RT: 21.372 min Scan# 3112
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:149 Resp: 573663

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.0	31.6
279	3.9	2.8	4.2

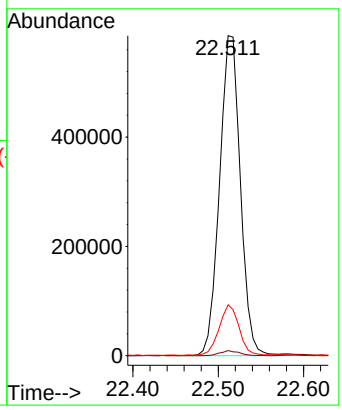




#85
Di-n-octyl phthalate
Concen: 65.521 ng
RT: 22.511 min Scan# 3
Delta R.T. -0.019 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:149 Resp: 99530

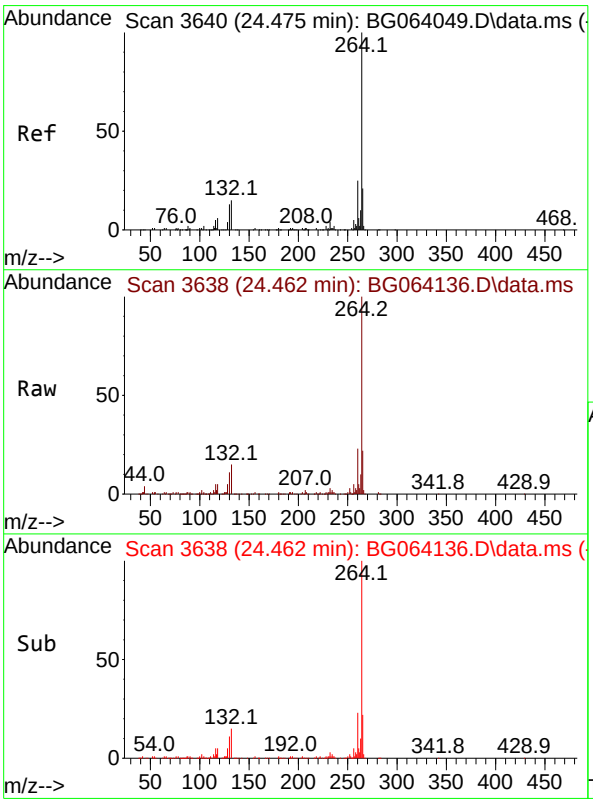
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	15.1	12.6	19.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

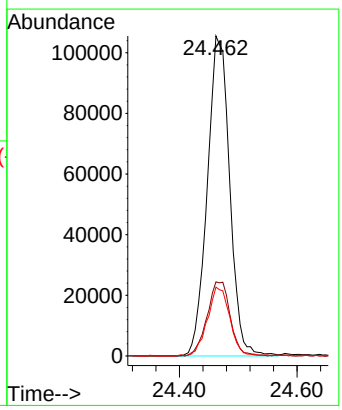
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

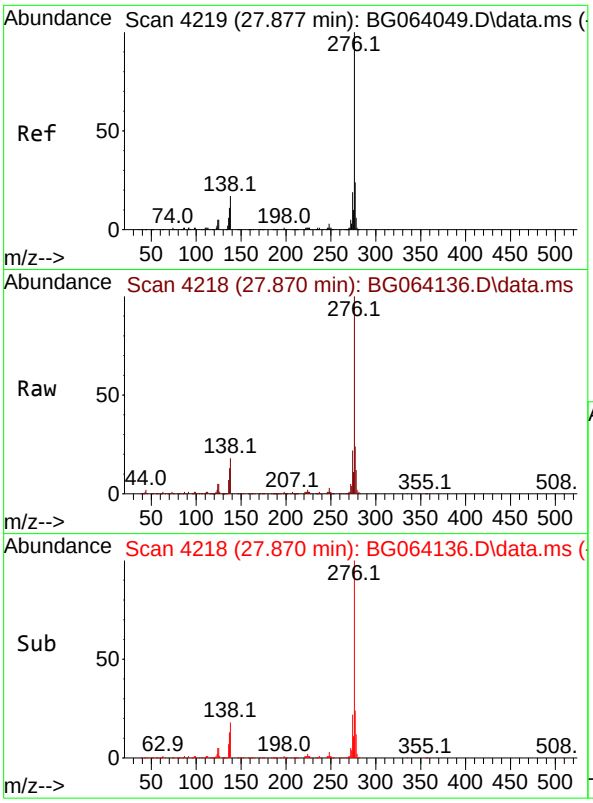


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.462 min Scan# 3638
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:264 Resp: 279147

Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.6	29.4
265	21.5	16.6	25.0

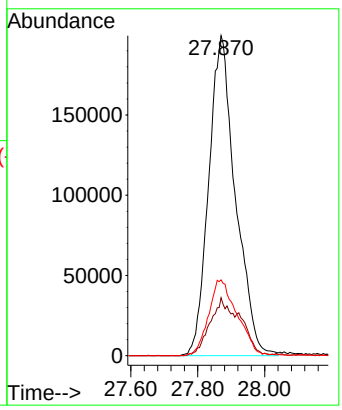




#87
Indeno(1,2,3-cd)pyrene
Concen: 59.332 ng
RT: 27.870 min Scan# 4
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:276 Resp: 110814

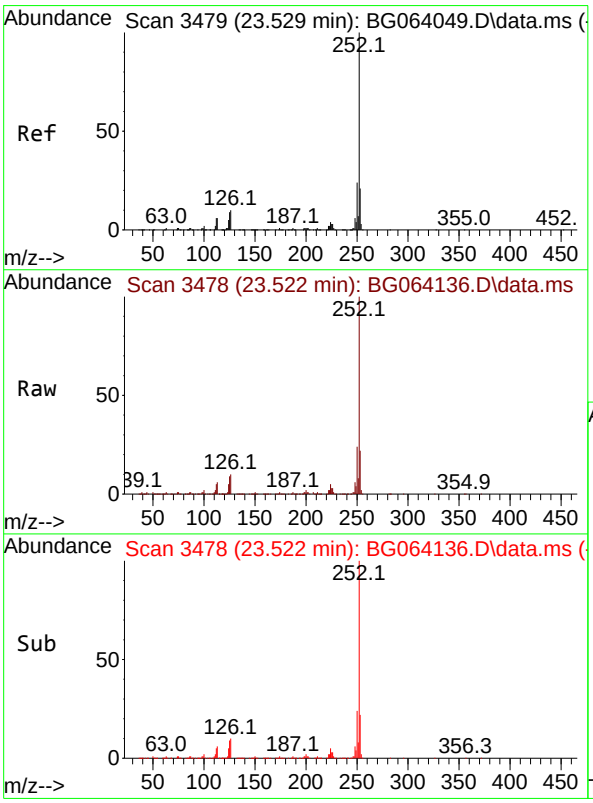
Ion	Ratio	Lower	Upper
276	100		
138	14.4	12.1	18.1
277	25.3	20.0	30.0



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

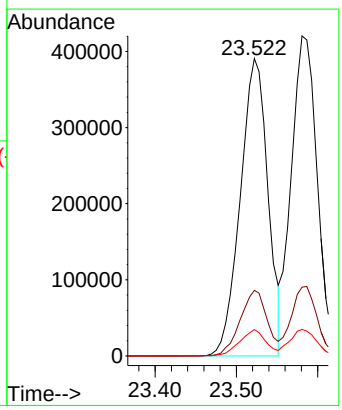
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

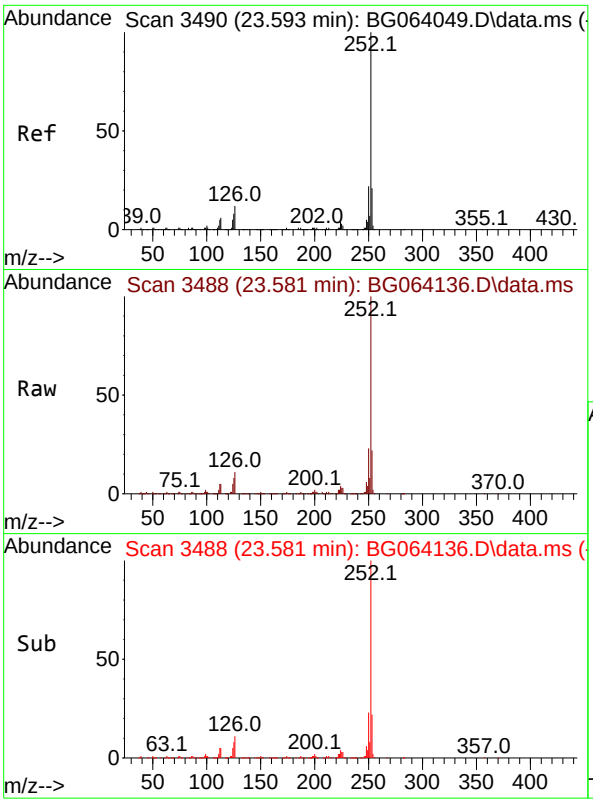


#88
Benzo(b)fluoranthene
Concen: 54.663 ng
RT: 23.522 min Scan# 3478
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 922469

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.0	25.4
125	8.9	7.4	11.2

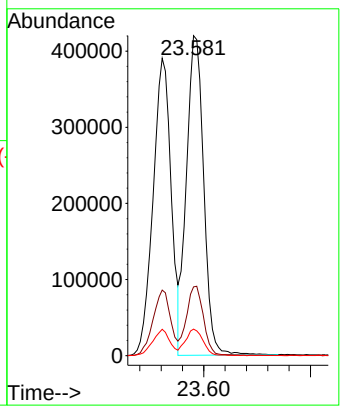




#89
Benzo(k)fluoranthene
Concen: 55.737 ng
RT: 23.581 min Scan# 34
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 94359

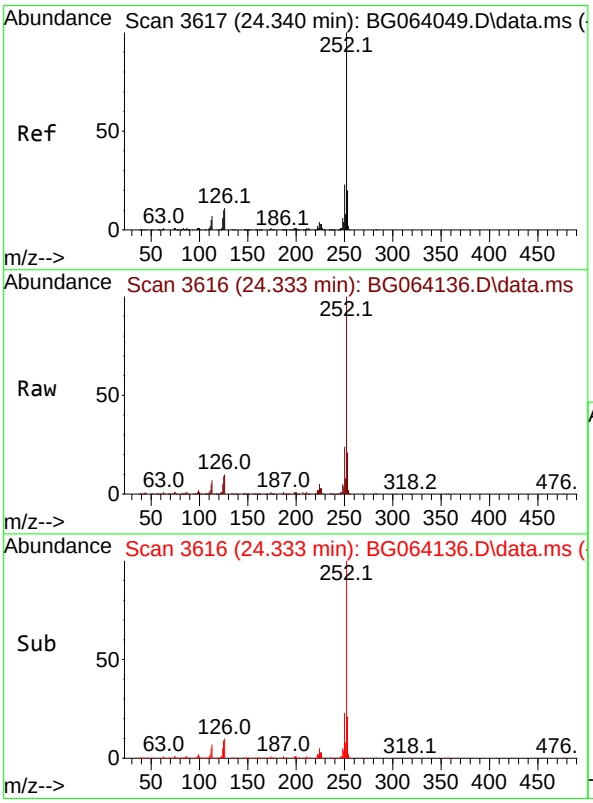
Ion	Ratio	Lower	Upper
252	100		
253	21.5	16.8	25.2
125	8.3	6.9	10.3



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

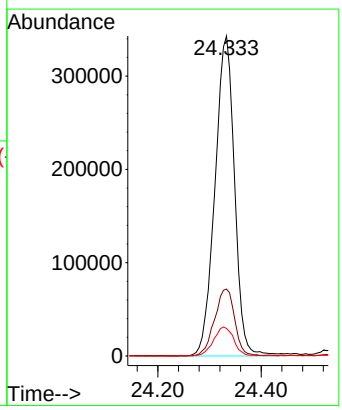
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025

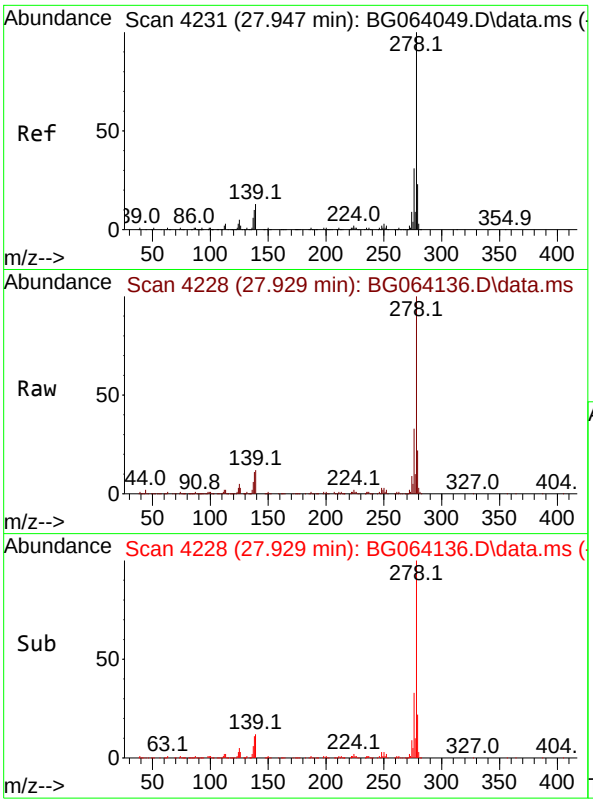


#90
Benzo(a)pyrene
Concen: 59.877 ng
RT: 24.333 min Scan# 3616
Delta R.T. -0.007 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:252 Resp: 899894

Ion	Ratio	Lower	Upper
252	100		
253	20.9	16.2	24.2
125	8.6	7.8	11.6

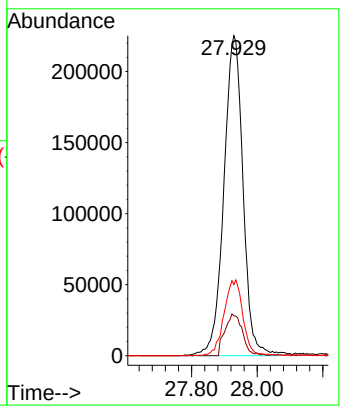




#91
Dibenzo(a,h)anthracene
Concen: 58.952 ng
RT: 27.929 min Scan# 4
Delta R.T. -0.018 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:278 Resp: 91281

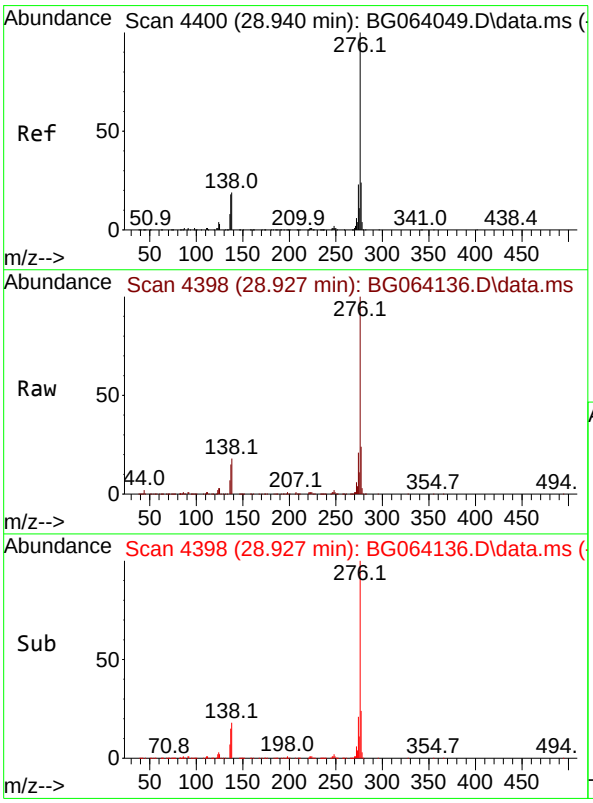
Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.2	15.2
279	22.2	18.1	27.1



Instrument :
BNA_G
ClientSampleId :
P001-BBDGA-001-01-06MSD

Manual Integrations
APPROVED

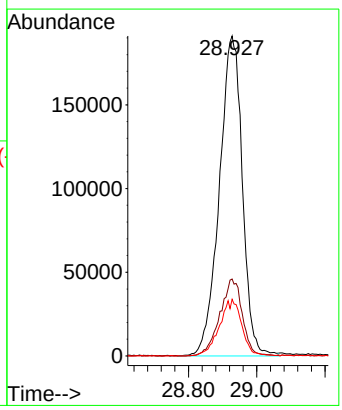
Reviewed By :Anahy Claudio 04/02/2025
Supervised By :Jagrut Upadhyay 04/02/2025



#92
Benzo(g,h,i)perylene
Concen: 56.274 ng
RT: 28.927 min Scan# 4398
Delta R.T. -0.013 min
Lab File: BG064136.D
Acq: 1 Apr 2025 15:44

Tgt Ion:276 Resp: 894624

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.5	29.3
138	17.7	15.4	23.0



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

Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BG064046.D	1,2-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	1,4-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	2,4,6-Trichlorophenol	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Acenaphthene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Benzidine	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Acenaphthene	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzaldehyde	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzidine	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzoic acid	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Acenaphthene	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzaldehyde	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzoic acid	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICCC040	BG064049.D	Acenaphthene	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BG064049.D	Benzoic acid	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Acenaphthene	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Benzoic acid	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC060	BG064051.D	Benzoic acid	Jagrut	3/6/2025 5:46:32 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC080	BG064052.D	Benzoic acid	Jagrut	3/6/2025 5:46:36 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Acenaphthene	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzaldehyde	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzoic acid	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bg040125	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BG064130.D	Acenaphthene	anahy	4/2/2025 10:04:54 AM	Jagrut	4/2/2025 10:55:16 AM	Peak Integrated by Software
SSTDCCC040	BG064130.D	Benzoic acid	anahy	4/2/2025 10:04:54 AM	Jagrut	4/2/2025 10:55:16 AM	Peak Integrated by Software
Q1664-05MS	BG064135.D	2,2"-oxybis(1-Chloropropane)	anahy	4/2/2025 10:06:19 AM	Jagrut	4/2/2025 10:55:19 AM	Peak Integrated by Software
Q1664-05MS	BG064135.D	Benzaldehyde	anahy	4/2/2025 10:06:19 AM	Jagrut	4/2/2025 10:55:19 AM	Peak Integrated by Software
Q1664-05MS	BG064135.D	Benzoic acid	anahy	4/2/2025 10:06:19 AM	Jagrut	4/2/2025 10:55:19 AM	Peak Integrated by Software
Q1664-05MS	BG064135.D	Caprolactam	anahy	4/2/2025 10:06:19 AM	Jagrut	4/2/2025 10:55:19 AM	Peak Integrated by Software
Q1664-06MSD	BG064136.D	2,2"-oxybis(1-Chloropropane)	anahy	4/2/2025 10:07:14 AM	Jagrut	4/2/2025 10:55:22 AM	Peak Integrated by Software
Q1664-06MSD	BG064136.D	Benzoic acid	anahy	4/2/2025 10:07:14 AM	Jagrut	4/2/2025 10:55:22 AM	Peak Integrated by Software
Q1664-06MSD	BG064136.D	Caprolactam	anahy	4/2/2025 10:07:14 AM	Jagrut	4/2/2025 10:55:22 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BG040325	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BG064164.D	Benzoic acid	anahy	4/4/2025 10:53:43 AM	Jagrut	4/4/2025 11:51:59 AM	Peak Integrated by Software
PB167393BS	BG064173.D	Benzoic acid	Rahul	4/4/2025 11:47:15 AM	Jagrut	4/4/2025 11:52:13 AM	Peak Integrated by Software
PB167393BS	BG064173.D	Caprolactam	Rahul	4/4/2025 11:47:15 AM	Jagrut	4/4/2025 11:52:13 AM	Peak Integrated by Software
SSTDCCC040	BG064180.D	2,3,4,6-Tetrachlorophenol	Rahul	4/4/2025 11:47:25 AM	Jagrut	4/4/2025 11:52:22 AM	Peak Integrated by Software
SSTDCCC040	BG064180.D	Benzoic acid	Rahul	4/4/2025 11:47:25 AM	Jagrut	4/4/2025 11:52:22 AM	Peak Integrated by Software

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG064044.D	5 Mar 2025 8:15	RC/JU	Ok
2	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02	RC/JU	Ok
3	SSTDICC005	BG064046.D	5 Mar 2025 9:42	RC/JU	Ok,M
4	SSTDICC010	BG064047.D	5 Mar 2025 10:22	RC/JU	Ok,M
5	SSTDICC020	BG064048.D	5 Mar 2025 11:03	RC/JU	Ok,M
6	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	RC/JU	Ok,M
7	SSTDICC050	BG064050.D	5 Mar 2025 12:23	RC/JU	Ok,M
8	SSTDICC060	BG064051.D	5 Mar 2025 13:04	RC/JU	Ok,M
9	SSTDICC080	BG064052.D	5 Mar 2025 13:44	RC/JU	Ok,M
10	SSTDICV040	BG064053.D	5 Mar 2025 15:10	RC/JU	Ok,M
11	PB166970BL	BG064054.D	5 Mar 2025 15:50	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040125

Review By	anahy	Review On	4/2/2025 10:09:51 AM		
Supervise By	Jagrut	Supervise On	4/2/2025 10:55:40 AM		
SubDirectory	BG040125	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG064129.D	1 Apr 2025 10:13	RC/JU	Ok
2	SSTDCCC040	BG064130.D	1 Apr 2025 11:38	RC/JU	Ok,M
3	PB167373TB	BG064131.D	1 Apr 2025 12:19	RC/JU	Ok
4	Q1666-01	BG064132.D	1 Apr 2025 13:02	RC/JU	Ok
5	Q1672-01	BG064133.D	1 Apr 2025 13:43	RC/JU	Ok
6	Q1664-04	BG064134.D	1 Apr 2025 14:23	RC/JU	Ok
7	Q1664-05MS	BG064135.D	1 Apr 2025 15:03	RC/JU	Ok,M
8	Q1664-06MSD	BG064136.D	1 Apr 2025 15:44	RC/JU	Ok,M
9	Q1664-08	BG064137.D	1 Apr 2025 16:24	RC/JU	Ok
10	Q1664-10	BG064138.D	1 Apr 2025 17:04	RC/JU	Ok
11	Q1664-12	BG064139.D	1 Apr 2025 17:45	RC/JU	Ok
12	Q1664-14	BG064140.D	1 Apr 2025 18:25	RC/JU	Ok
13	Q1664-16	BG064141.D	1 Apr 2025 19:05	RC/JU	Ok
14	Q1664-18	BG064142.D	1 Apr 2025 19:45	RC/JU	Ok
15	Q1664-20	BG064143.D	1 Apr 2025 20:26	RC/JU	Ok
16	Q1664-22	BG064144.D	1 Apr 2025 21:06	RC/JU	Ok
17	Q1687-01	BG064145.D	1 Apr 2025 21:46	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040325

Review By	Rahul	Review On	4/4/2025 11:48:21 AM		
Supervise By	Jagrut	Supervise On	4/4/2025 11:52:54 AM		
SubDirectory	BG040325	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG064163.D	3 Apr 2025 12:24	RC/JU	Ok
2	SSTDCCC040	BG064164.D	3 Apr 2025 13:04	RC/JU	Ok,M
3	PB167380BL	BG064165.D	3 Apr 2025 13:45	RC/JU	Ok
4	PB167380BS	BG064166.D	3 Apr 2025 14:25	RC/JU	Ok,M
5	PB167376BL	BG064167.D	3 Apr 2025 15:13	RC/JU	Ok
6	PB167417BS	BG064168.D	3 Apr 2025 15:54	RC/JU	Ok,M
7	PB167393TB	BG064169.D	3 Apr 2025 16:34	RC/JU	Ok
8	PB167376BS	BG064170.D	3 Apr 2025 17:15	RC/JU	Ok,M
9	PB167393BL	BG064171.D	3 Apr 2025 17:56	RC/JU	Ok
10	PB167376BSD	BG064172.D	3 Apr 2025 18:36	RC/JU	Ok,M
11	PB167393BS	BG064173.D	3 Apr 2025 19:17	RC/JU	Ok,M
12	PB167451BL	BG064174.D	3 Apr 2025 19:58	RC/JU	Ok
13	PB167451BS	BG064175.D	3 Apr 2025 20:38	RC/JU	Ok,M
14	PB167451BSD	BG064176.D	3 Apr 2025 21:19	RC/JU	Ok,M
15	PB167445BS	BG064177.D	3 Apr 2025 22:00	RC/JU	Ok,M
16	Q1690-01	BG064178.D	3 Apr 2025 22:40	RC/JU	Ok
17	DFTPP	BG064179.D	3 Apr 2025 23:21	RC/JU	Ok
18	SSTDCCC040	BG064180.D	4 Apr 2025 00:02	RC/JU	Ok,M
19	PB167445BL	BG064181.D	4 Apr 2025 00:42	RC/JU	Ok
20	PB167408TB	BG064182.D	4 Apr 2025 1:23	RC/JU	Ok
21	Q1680-04	BG064183.D	4 Apr 2025 2:04	RC/JU	Ok

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040325

Review By	Rahul	Review On	4/4/2025 11:48:21 AM		
Supervise By	Jagrut	Supervise On	4/4/2025 11:52:54 AM		
SubDirectory	BG040325	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1680-04MS	BG064184.D	4 Apr 2025 2:44	RC/JU	Ok,M
23	Q1680-04MSD	BG064185.D	4 Apr 2025 3:25	RC/JU	Ok,M
24	Q1681-04	BG064186.D	4 Apr 2025 4:05	RC/JU	Ok
25	Q1693-04	BG064187.D	4 Apr 2025 4:46	RC/JU	Ok
26	Q1693-08	BG064188.D	4 Apr 2025 5:26	RC/JU	Ok
27	Q1693-12	BG064189.D	4 Apr 2025 6:07	RC/JU	Ok
28	Q1694-04	BG064190.D	4 Apr 2025 6:47	RC/JU	Ok
29	Q1695-04	BG064191.D	4 Apr 2025 7:27	RC/JU	Ok
30	Q1695-08	BG064192.D	4 Apr 2025 8:08	RC/JU	Ok
31	Q1705-02	BG064193.D	4 Apr 2025 8:48	RC/JU	Ok
32	Q1705-01	BG064194.D	4 Apr 2025 9:28	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG064044.D	5 Mar 2025 8:15		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BG064046.D	5 Mar 2025 9:42	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BG064047.D	5 Mar 2025 10:22		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BG064048.D	5 Mar 2025 11:03	Compound#32,51,54,57,65,80 Kept on LR & Compound#26,48 Kept on QR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	Calibration is good for 8270 E and 8270 DOD. Benzidine failed in the Calibration.	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BG064050.D	5 Mar 2025 12:23		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BG064051.D	5 Mar 2025 13:04	Compound#69 removed from 60 ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BG064052.D	5 Mar 2025 13:44	Compound#9,69 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBG030525	BG064053.D	5 Mar 2025 15:10		RC/JU	Ok,M
11	PB166970BL	PB166970BL	BG064054.D	5 Mar 2025 15:50		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040125

Review By	anahy	Review On	4/2/2025 10:09:51 AM		
Supervise By	Jagrut	Supervise On	4/2/2025 10:55:40 AM		
SubDirectory	BG040125	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG064129.D	1 Apr 2025 10:13		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG064130.D	1 Apr 2025 11:38		RC/JU	Ok,M
3	PB167373TB	PB167373TB	BG064131.D	1 Apr 2025 12:19		RC/JU	Ok
4	Q1666-01	TW-WTS-05	BG064132.D	1 Apr 2025 13:02		RC/JU	Ok
5	Q1672-01	TP-8	BG064133.D	1 Apr 2025 13:43		RC/JU	Ok
6	Q1664-04	P001-BBDGA-001-01	BG064134.D	1 Apr 2025 14:23		RC/JU	Ok
7	Q1664-05MS	P001-BBDGA-001-01-0	BG064135.D	1 Apr 2025 15:03		RC/JU	Ok,M
8	Q1664-06MSD	P001-BBDGA-001-01-0	BG064136.D	1 Apr 2025 15:44		RC/JU	Ok,M
9	Q1664-08	P001-BBDGA-001-02	BG064137.D	1 Apr 2025 16:24		RC/JU	Ok
10	Q1664-10	P001-BBDGA-002-01	BG064138.D	1 Apr 2025 17:04		RC/JU	Ok
11	Q1664-12	P001-BBDGA-003-01	BG064139.D	1 Apr 2025 17:45		RC/JU	Ok
12	Q1664-14	P001-BBDGA-004-01	BG064140.D	1 Apr 2025 18:25		RC/JU	Ok
13	Q1664-16	P001-BBDGA-005-01	BG064141.D	1 Apr 2025 19:05		RC/JU	Ok
14	Q1664-18	P001-BBDGA-006-01	BG064142.D	1 Apr 2025 19:45		RC/JU	Ok
15	Q1664-20	P001-BBDGA-007-01	BG064143.D	1 Apr 2025 20:26		RC/JU	Ok
16	Q1664-22	P001-BBDGA-008-01	BG064144.D	1 Apr 2025 21:06		RC/JU	Ok
17	Q1687-01	72-12016	BG064145.D	1 Apr 2025 21:46		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040325

Review By	Rahul	Review On	4/4/2025 11:48:21 AM		
Supervise By	Jagrut	Supervise On	4/4/2025 11:52:54 AM		
SubDirectory	BG040325	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG064163.D	3 Apr 2025 12:24		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG064164.D	3 Apr 2025 13:04		RC/JU	Ok,M
3	PB167380BL	PB167380BL	BG064165.D	3 Apr 2025 13:45		RC/JU	Ok
4	PB167380BS	PB167380BS	BG064166.D	3 Apr 2025 14:25		RC/JU	Ok,M
5	PB167376BL	PB167376BL	BG064167.D	3 Apr 2025 15:13		RC/JU	Ok
6	PB167417BS	PB167417BS	BG064168.D	3 Apr 2025 15:54		RC/JU	Ok,M
7	PB167393TB	PB167393TB	BG064169.D	3 Apr 2025 16:34		RC/JU	Ok
8	PB167376BS	PB167376BS	BG064170.D	3 Apr 2025 17:15		RC/JU	Ok,M
9	PB167393BL	PB167393BL	BG064171.D	3 Apr 2025 17:56		RC/JU	Ok
10	PB167376BSD	PB167376BSD	BG064172.D	3 Apr 2025 18:36		RC/JU	Ok,M
11	PB167393BS	PB167393BS	BG064173.D	3 Apr 2025 19:17		RC/JU	Ok,M
12	PB167451BL	PB167451BL	BG064174.D	3 Apr 2025 19:58		RC/JU	Ok
13	PB167451BS	PB167451BS	BG064175.D	3 Apr 2025 20:38		RC/JU	Ok,M
14	PB167451BSD	PB167451BSD	BG064176.D	3 Apr 2025 21:19		RC/JU	Ok,M
15	PB167445BS	PB167445BS	BG064177.D	3 Apr 2025 22:00		RC/JU	Ok,M
16	Q1690-01	MW112010	BG064178.D	3 Apr 2025 22:40	Surrogate Fail	RC/JU	Ok
17	DFTPP	DFTPP	BG064179.D	3 Apr 2025 23:21		RC/JU	Ok
18	SSTDCCC040	SSTDCCC040	BG064180.D	4 Apr 2025 00:02		RC/JU	Ok,M

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG040325

Review By	Rahul	Review On	4/4/2025 11:48:21 AM		
Supervise By	Jagrut	Supervise On	4/4/2025 11:52:54 AM		
SubDirectory	BG040325	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12657,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PB167445BL	PB167445BL	BG064181.D	4 Apr 2025 00:42		RC/JU	Ok
20	PB167408TB	PB167408TB	BG064182.D	4 Apr 2025 1:23		RC/JU	Ok
21	Q1680-04	TP-4	BG064183.D	4 Apr 2025 2:04		RC/JU	Ok
22	Q1680-04MS	TP-4MS	BG064184.D	4 Apr 2025 2:44		RC/JU	Ok,M
23	Q1680-04MSD	TP-4MSD	BG064185.D	4 Apr 2025 3:25		RC/JU	Ok,M
24	Q1681-04	TP-12	BG064186.D	4 Apr 2025 4:05		RC/JU	Ok
25	Q1693-04	WCS-TP-3	BG064187.D	4 Apr 2025 4:46		RC/JU	Ok
26	Q1693-08	WCS-TP-2	BG064188.D	4 Apr 2025 5:26		RC/JU	Ok
27	Q1693-12	WCS-TP-1	BG064189.D	4 Apr 2025 6:07		RC/JU	Ok
28	Q1694-04	TP-18	BG064190.D	4 Apr 2025 6:47		RC/JU	Ok
29	Q1695-04	TT-2	BG064191.D	4 Apr 2025 7:27		RC/JU	Ok
30	Q1695-08	TT-3	BG064192.D	4 Apr 2025 8:08		RC/JU	Ok
31	Q1705-02	ETGI-275	BG064193.D	4 Apr 2025 8:48		RC/JU	Ok
32	Q1705-01	ETGI-327	BG064194.D	4 Apr 2025 9:28		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167372

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 115525

Start Prep Date : 03/28/2025 **Time :** 15:20

End Prep Date : 03/29/2025 **Time :** 09:50

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ TB

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : TB

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	N/A	WP110806
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP110804
pH Strips	W3172.	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

TUMBLER T-2 checked,30 rpm. Particle size reduction is not required. Matrix spikes are added after fiftration and before preservation.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/31/25 10:30	TB ICP ROOM	SIGN.
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB167372

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167372TB	LEB372	20	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q1664-04	P001-BBDGA-001-01	11	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1664-05	Q1664-04MS	11	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1664-06	Q1664-04MSD	11	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-2
Q1664-08	P001-BBDGA-001-02	12	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1664-10	P001-BBDGA-002-01	13	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1664-12	P001-BBDGA-003-01	14	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q1664-14	P001-BBDGA-004-01	15	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1664-16	P001-BBDGA-005-01	16	100.01	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1664-18	P001-BBDGA-006-01	17	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q1664-20	P001-BBDGA-007-01	18	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1664-22	P001-BBDGA-008-01	19	100.04	2000	N/A	N/A	N/A	7.6	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167372TB	LEB372	N/A	N/A	N/A	N/A	N/A	N/A
Q1664-04	P001-BBDGA-001-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-05	Q1664-04MS	N/A	N/A	N/A	N/A	100	N/A
Q1664-06	Q1664-04MSD	N/A	N/A	N/A	N/A	100	N/A
Q1664-08	P001-BBDGA-001-02	N/A	N/A	N/A	N/A	100	N/A
Q1664-10	P001-BBDGA-002-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-12	P001-BBDGA-003-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-14	P001-BBDGA-004-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-16	P001-BBDGA-005-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-18	P001-BBDGA-006-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-20	P001-BBDGA-007-01	N/A	N/A	N/A	N/A	100	N/A
Q1664-22	P001-BBDGA-008-01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

SPLP Fluid Determination

PB167372

Hot Block ID : WC S-1 /WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB167372TB	LEB372	N/A	N/A	N/A	N/A	#1	4.24
Q1664-04	P001-BBDGA-001-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-05	Q1664-04MS	N/A	N/A	N/A	N/A	#1	4.24
Q1664-06	Q1664-04MSD	N/A	N/A	N/A	N/A	#1	4.24
Q1664-08	P001-BBDGA-001-02	N/A	N/A	N/A	N/A	#1	4.24
Q1664-10	P001-BBDGA-002-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-12	P001-BBDGA-003-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-14	P001-BBDGA-004-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-16	P001-BBDGA-005-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-18	P001-BBDGA-006-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-20	P001-BBDGA-007-01	N/A	N/A	N/A	N/A	#1	4.24
Q1664-22	P001-BBDGA-008-01	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : SPLP Q1664 **WorkList ID :** 188612 **Department :** TCLP Extraction **Date :** 03-28-2025 12:15:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1664-04	P001-BBDGA-001-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-05	Q1664-04MS	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-06	Q1664-04MSD	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-08	P001-BBDGA-001-02	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-10	P001-BBDGA-002-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-12	P001-BBDGA-003-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-14	P001-BBDGA-004-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-16	P001-BBDGA-005-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-18	P001-BBDGA-006-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-20	P001-BBDGA-007-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312
Q1664-22	P001-BBDGA-008-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	I31	03/26/2025	1312

Date/Time 03/28/25 12:40

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 03/28/25 15:30

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167393

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 03/31/2025

Extraction Start Time : 11:00

Extraction End Date : 03/31/2025

Extraction End Time : 16:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6752
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3904
Baked Na2SO4	N/A	EP2597
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. p H Adjusted <2 with 1:1 H2SO4 & >11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
03/31/25	RP (Ext Lab)	ACSVOC
16:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167393

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/31/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167393BL	PB167393BL	SPLP BNA	1000	6	ritesh	rajesh	1			SEP-01
PB167393BS	PB167393BS	SPLP BNA	1000	6	ritesh	rajesh	1			2
PB167393TB	PB167393TB	SPLP BNA	1000	6	ritesh	rajesh	1			3
Q1664-04	P001-BBDGA-001-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		4
Q1664-05	Q1664-04MS	SPLP BNA	1000	6	ritesh	rajesh	1	A		5
Q1664-06	Q1664-04MSD	SPLP BNA	1000	6	ritesh	rajesh	1	A		6
Q1664-08	P001-BBDGA-001-02	SPLP BNA	1000	6	ritesh	rajesh	1	A		7
Q1664-10	P001-BBDGA-002-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		8
Q1664-12	P001-BBDGA-003-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		9
Q1664-14	P001-BBDGA-004-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		10
Q1664-16	P001-BBDGA-005-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		11
Q1664-18	P001-BBDGA-006-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		12
Q1664-20	P001-BBDGA-007-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		13
Q1664-22	P001-BBDGA-008-01	SPLP BNA	1000	6	ritesh	rajesh	1	A		14

* **Extracts relinquished on the same date as received.**

3/31/25

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

Prep Standard - Chemical Standard Summary

Order ID : Q1664

Test : SPLP BNA

Prepbatch ID : PB167393,

Sequence ID/Qc Batch ID: BG040125,BG040325,

Standard ID :
EP2559,EP2565,EP2597,SP6685,SP6686,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,SP6752,SP6754,SP6757,

Chemical ID :
10ul/1000ul sample,E3551,E3657,E3828,E3874,E3876,E3902,E3904,M5173,S10104,S10397,S10584,S11074,S11087,S11143,S11161,S11487,S11495,S11650,S11785,S11786,S11787,S11788,S12114,S12142,S12189,S12190,S12191,S12192,S12193,S12194,S12195,S12208,S12209,S12210,S12211,S12212,S12213,S12214,S12215,S12216,S12270,S12276,S12327,S12469,S12478,S12479,S12480,S12481,S12482,S12483,S12484,S12485,S12486,S12517,S12525,S12526,S12527,S12528,S12529,S12530,S12531,S12532,S12533,S12577,S12649,S12657,S12791,S12966,S12967,S12968,S12969,S12970,S12971,S12972,S12973,S12974,W3112,

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2559	11/14/2024	05/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 11/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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

Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2597	03/28/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	Evelyn Huang 03/28/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel 02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6752	03/10/2025	05/31/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/03/2025

FROM 0.10000ml of S12478 + 0.30000ml of S12525 + 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12533 + 0.40000ml of S12974 + 0.60000ml of S12486 + 0.80000ml of S12966 + 1.10000ml of S11788 + 1.20000ml of S11785 + 1.20000ml of S12483 + 1.20000ml of S12526 + 1.20000ml of S12967 + 1.20000ml of S12968 + 1.20000ml of S12970 + 1.20000ml of S12972 + 1.30000ml of S11786 + 1.30000ml of S12481 + 1.30000ml of S12482 + 1.30000ml of S12484 + 1.30000ml of S12528 + 1.30000ml of S12529 + 1.30000ml of S12531 + 1.30000ml of S12969 + 1.30000ml of S12973 + 1.40000ml of S11787 + 1.40000ml of S12479 + 1.40000ml of S12480 + 1.40000ml of S12485 + 1.40000ml of S12527 + 1.40000ml of S12530 + 1.40000ml of S12532 + 1.40000ml of S12971 + 163.00000ml of E3876 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6754	03/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/03/2025

FROM 1930.00000ml of E3902 + 2.60000ml of S12216 + 2.70000ml of S12195 + 5.20000ml of S12210 + 5.30000ml of S12192 + 5.30000ml of S12194 + 5.30000ml of S12209 + 5.30000ml of S12211 + 5.30000ml of S12212 + 5.30000ml of S12213 + 5.40000ml of S12190 + 5.40000ml of S12214 + 5.60000ml of S12191 + 5.60000ml of S12215 + 5.70000ml of S12193 = Final Quantity: 2000.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	08/25/2025	02/25/2025 /	02/12/2025 / Rajesh	E3876

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11786

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11787

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12190

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12192

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12193

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12194

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12209

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12210

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12211

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12212

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12214

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12215

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12479

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12480

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12481

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12482

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12483

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12484

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12485

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12527

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12528

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12529

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12530

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12531

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	10/01/2025	04/01/2025 / anahy	09/20/2024 / anahy	S12657

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12967

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12968

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12969

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12970

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12971

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12972

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12973

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0 **Page 1 of 1**

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione
Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22
S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622 µg/mL	Unstressed
	Purity 99%		+/- 905.6020 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 07/05/22 S10583 to S10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

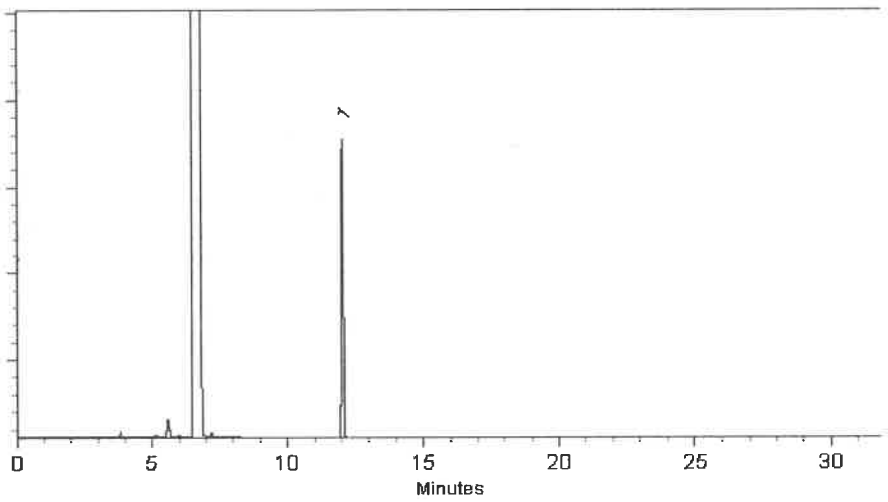
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

tes:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3902

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555870 **Lot No.:** A0200549

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

S11484 ↓ S11493 Y.P. 08/10/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

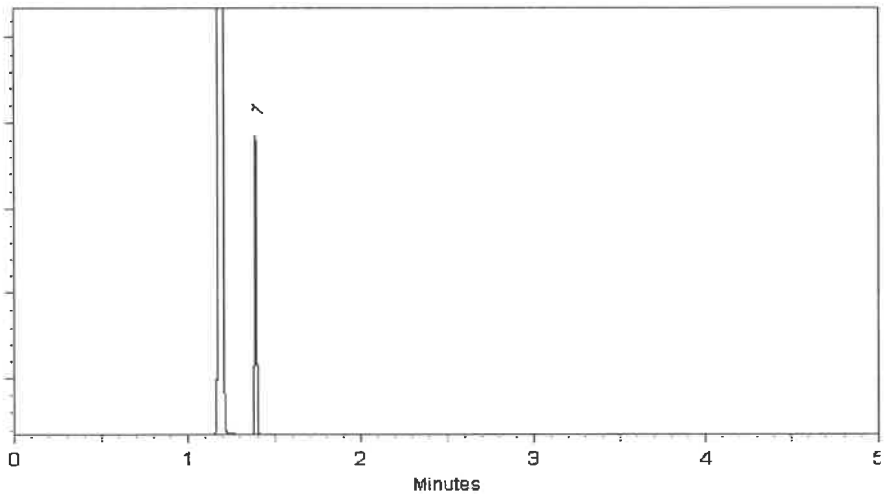
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

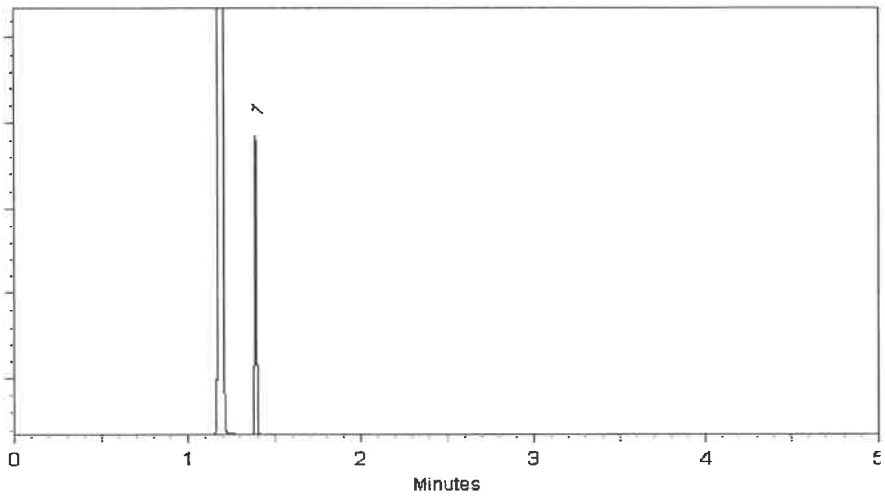
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

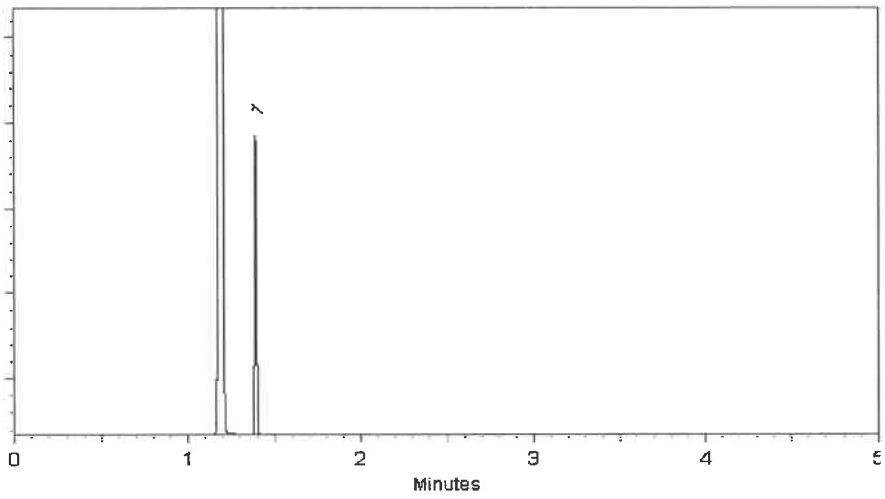
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

S11749 ↓ S11794 RC 11/30/23

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

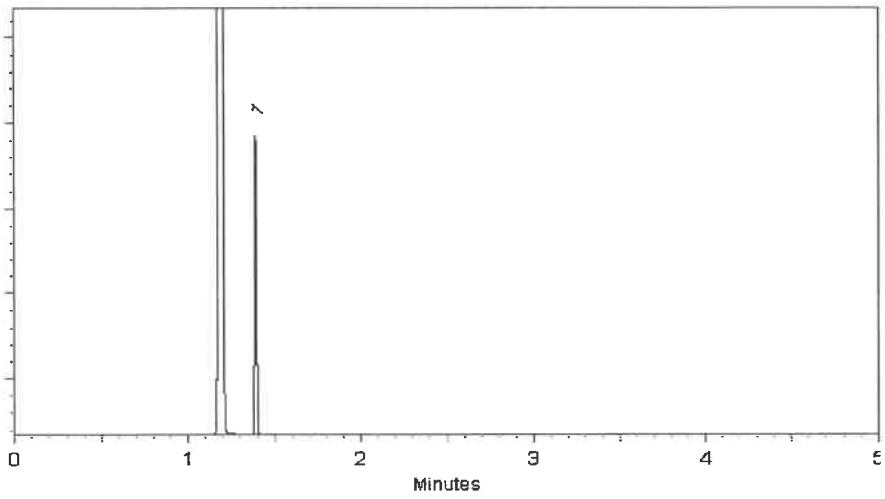
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/-	36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/-	36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/-	36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/-	36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/-	36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/-	36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/-	36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/-	36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/-	36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/-	36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/-	36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/-	36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/-	36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/-	36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/-	36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/-	36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/-	36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/-	36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/-	36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/-	36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/-	36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/-	36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/-	36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/-	36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/-	36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/-	36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/-	36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/-	36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/-	36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/-	36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/-	36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/-	36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/-	36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/-	36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/-	36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/-	36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

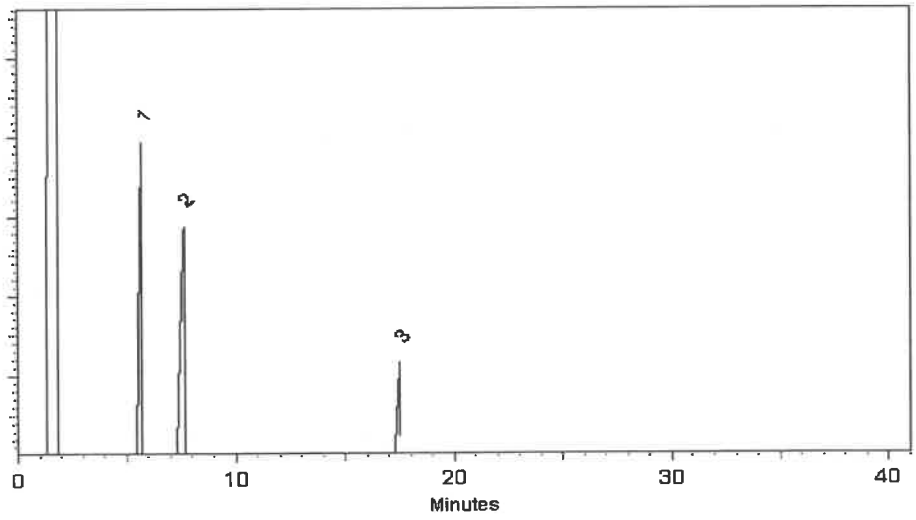
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

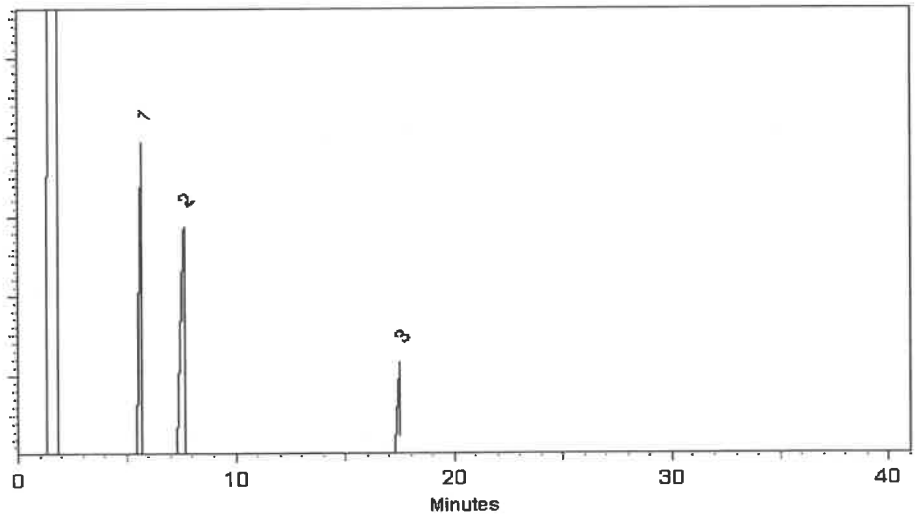
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

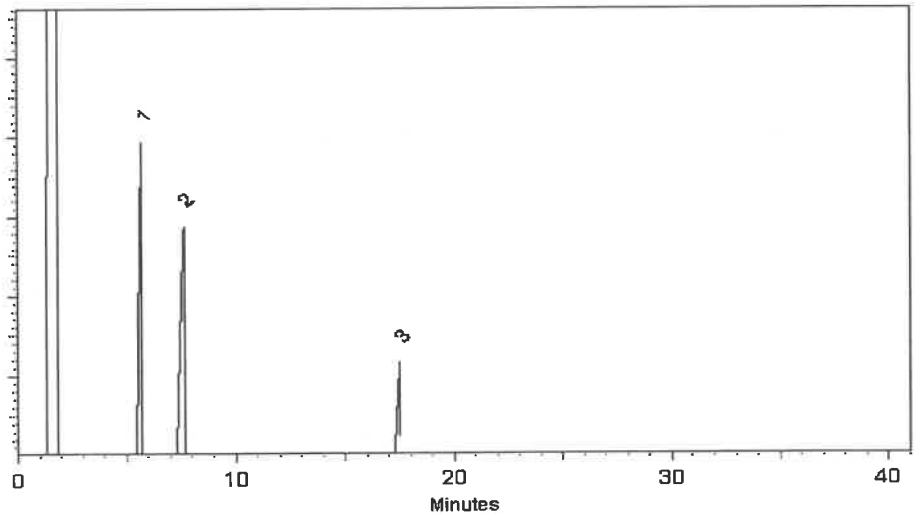
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

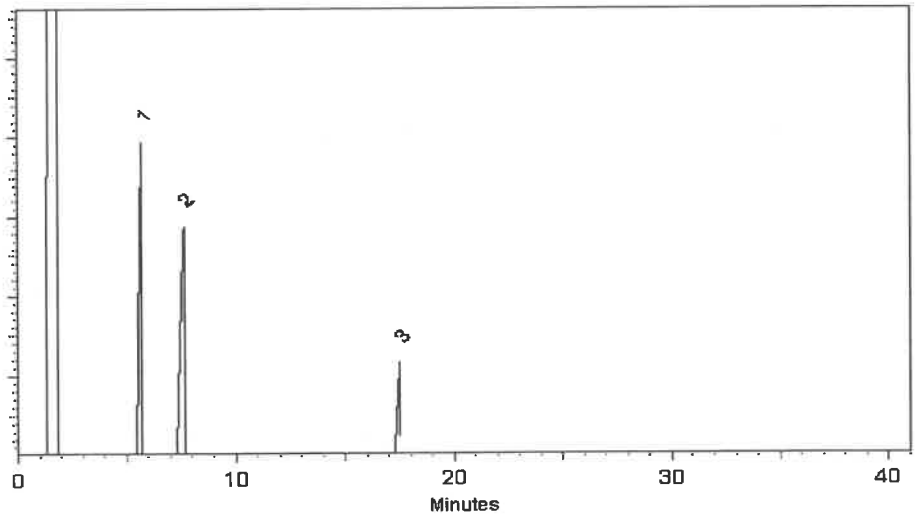
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

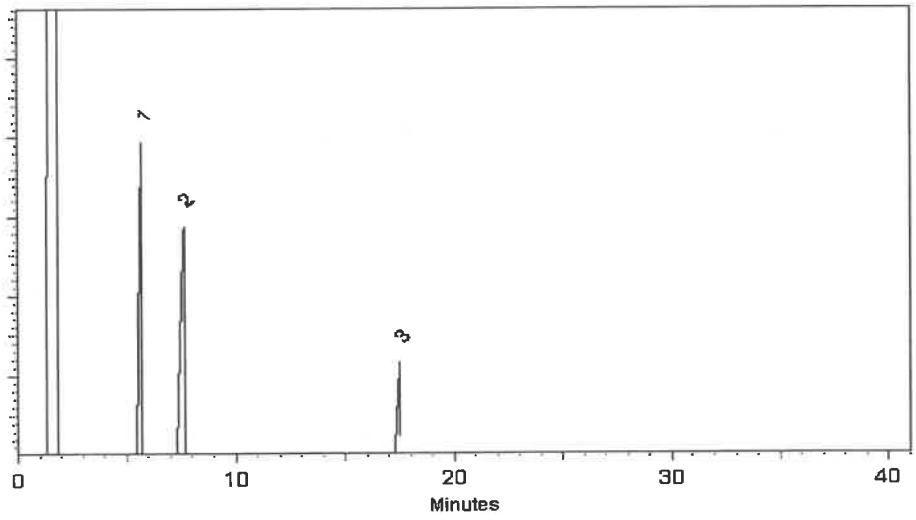
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

S12187 ↓ S12206 } RC/ 03/18/24

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

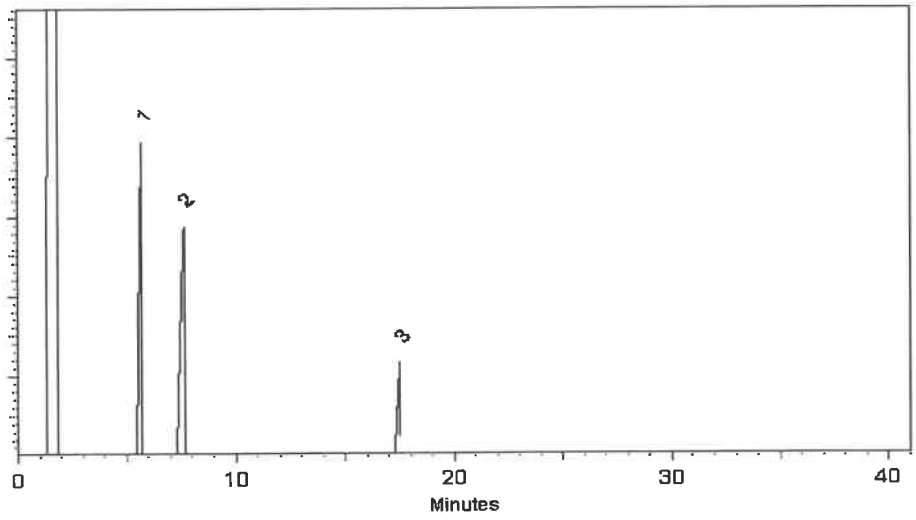
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

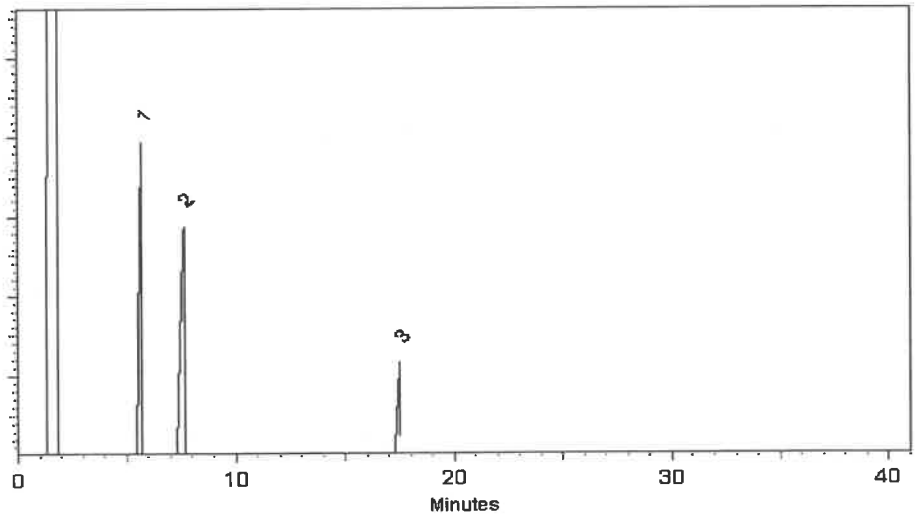
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

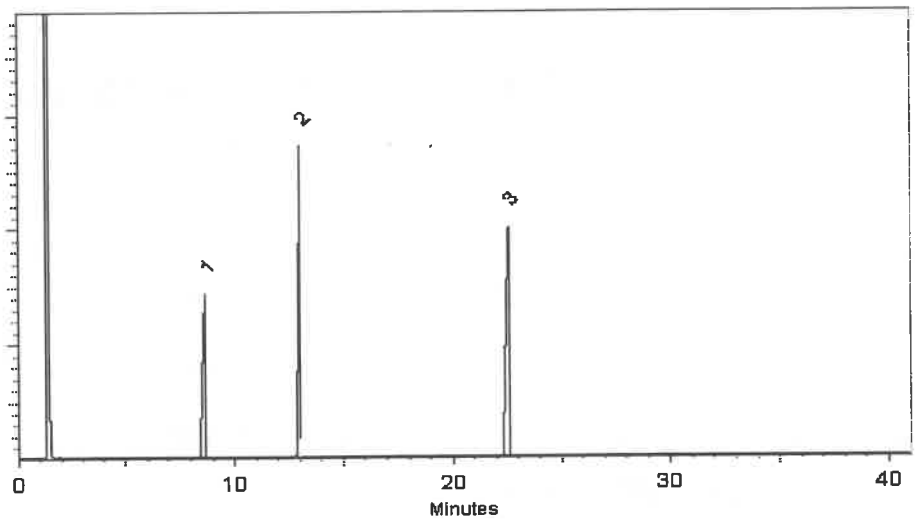
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

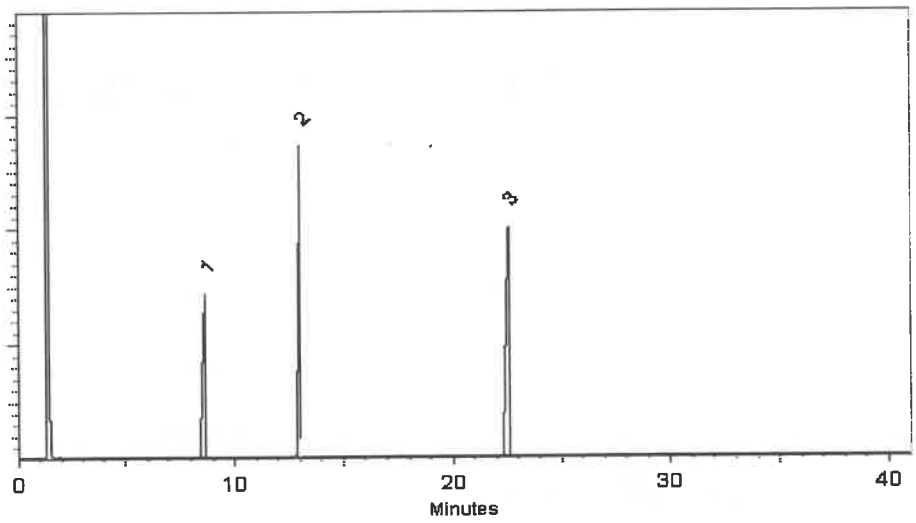
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

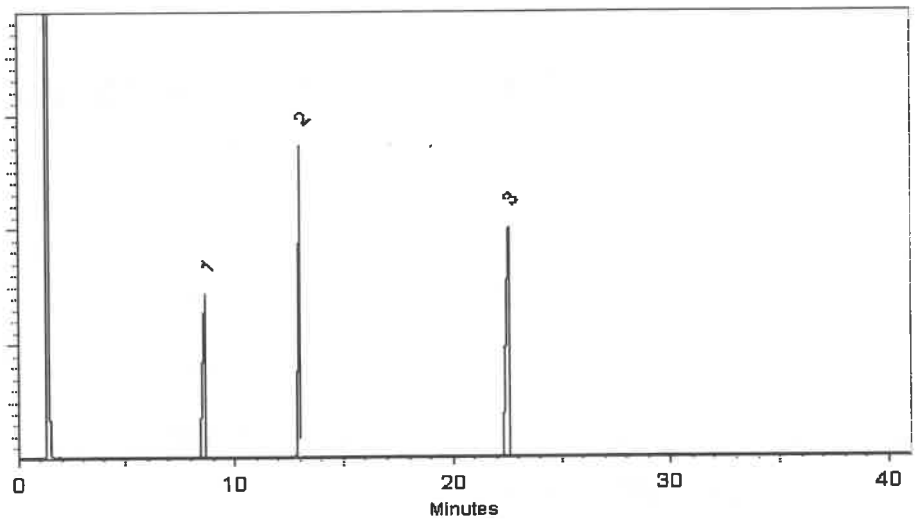
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

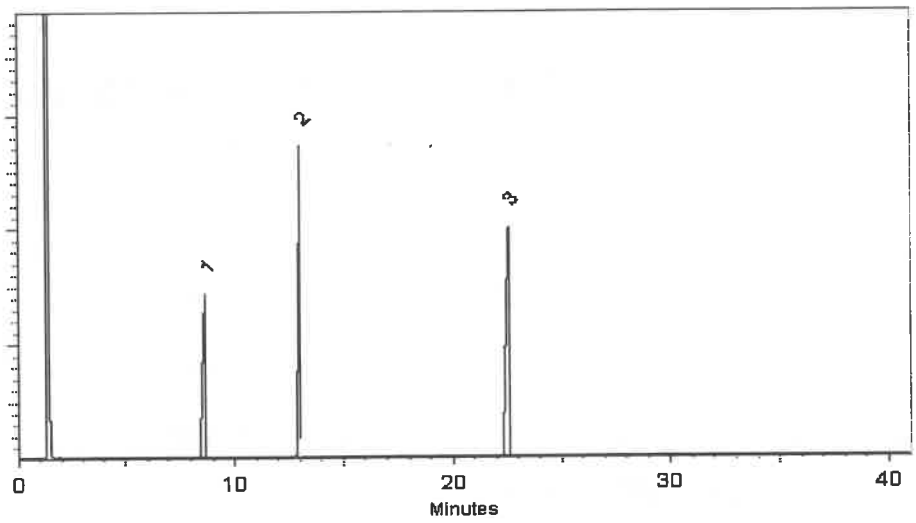
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

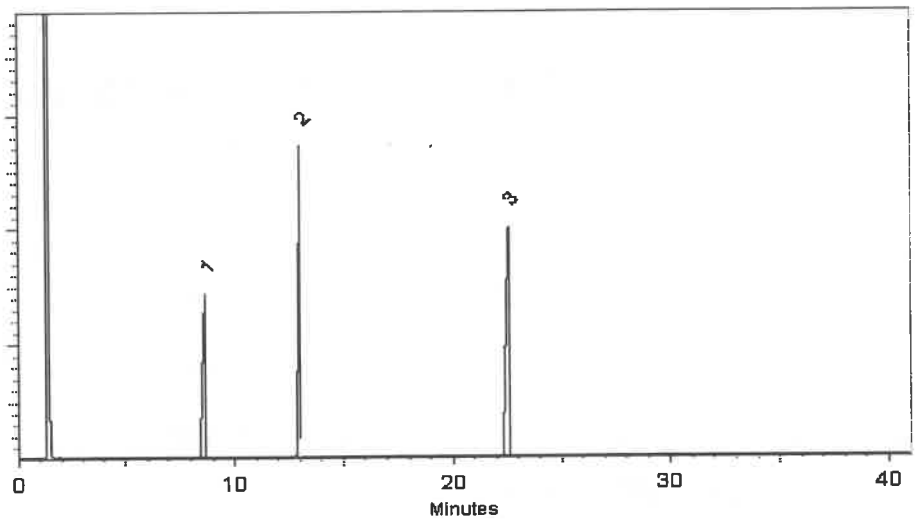
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

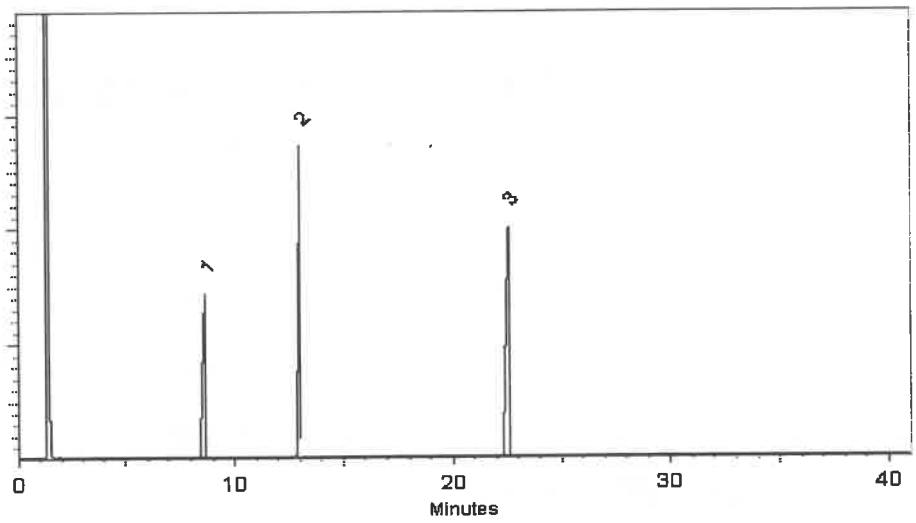
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

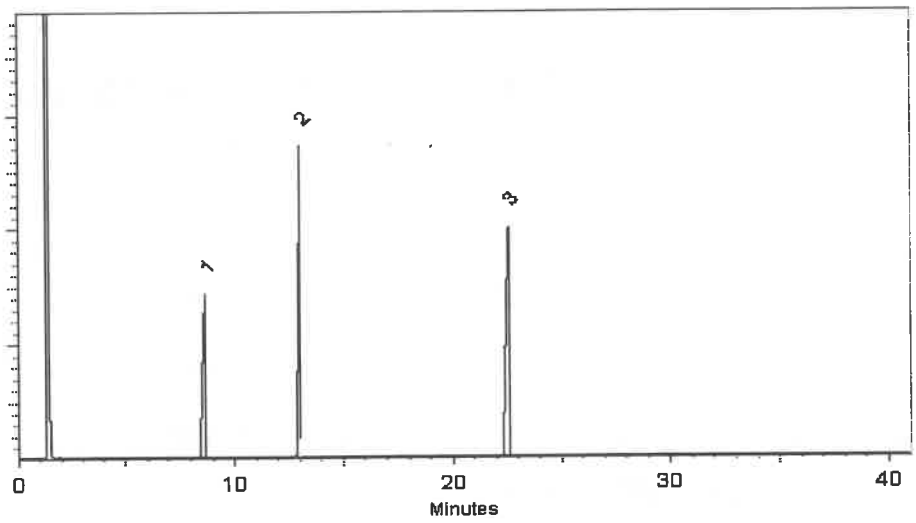
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

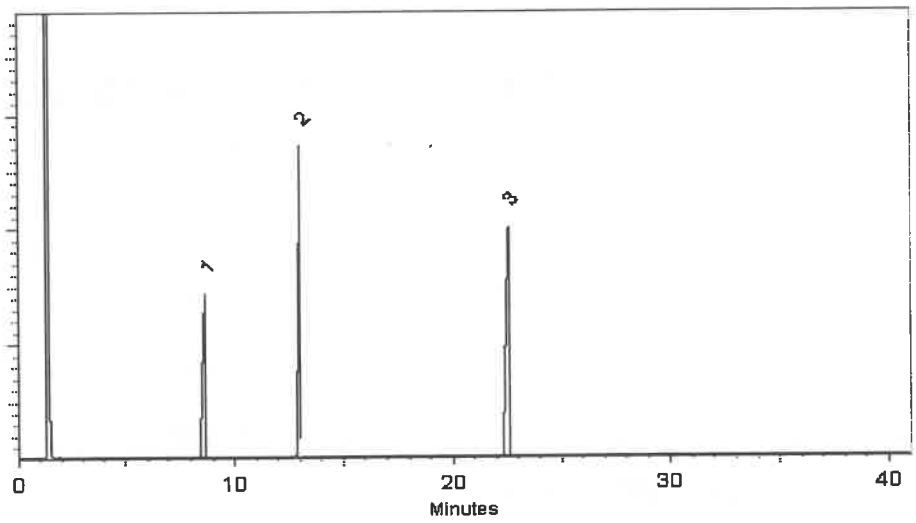
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

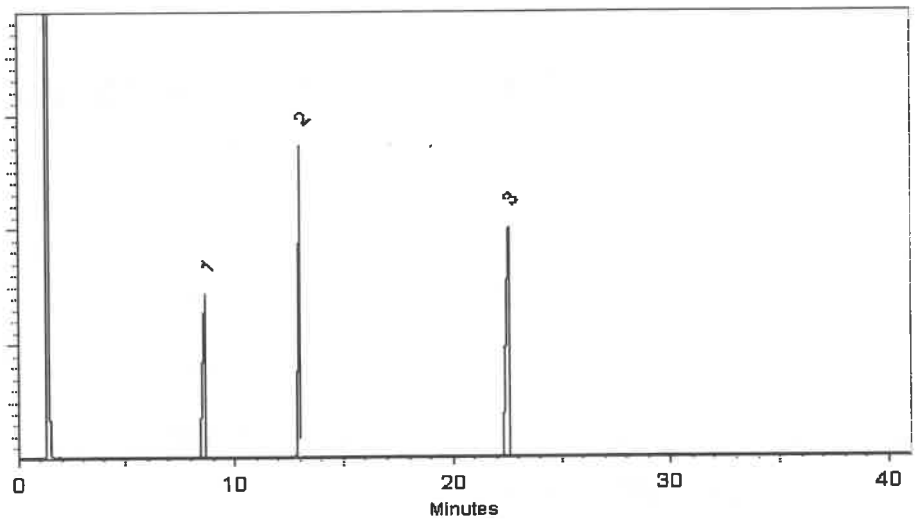
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

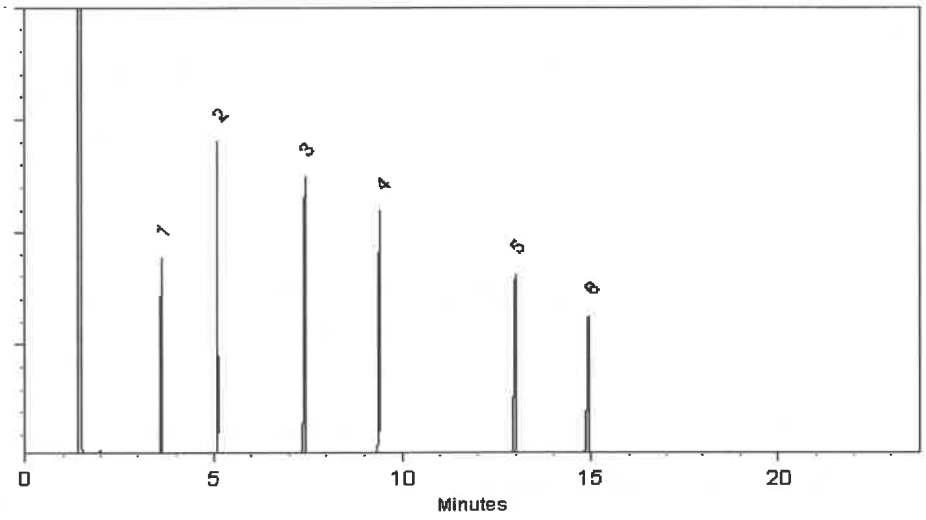
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 } RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 RC 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 RC 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

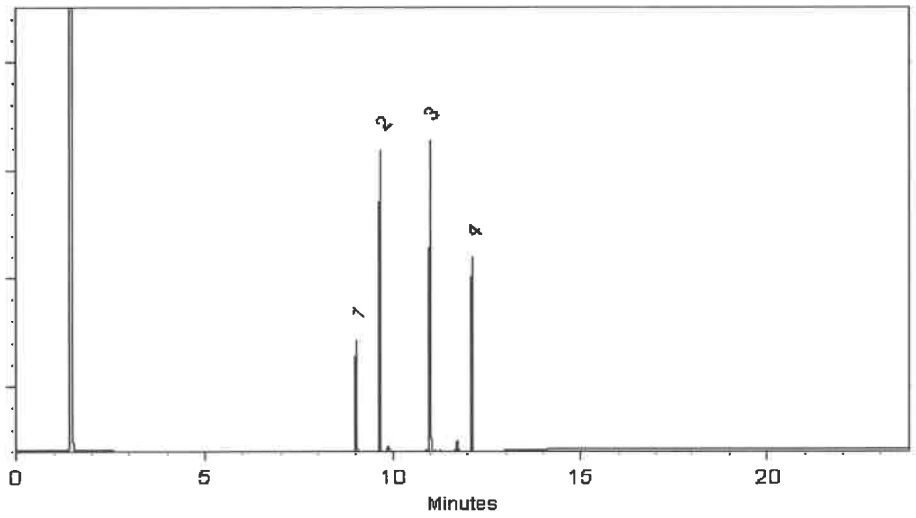
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12280 → S12284 RCI 05/24/24

New numbers Generated.

S12790 → S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 → S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

SHIPPING DOCUMENTS

Q16664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-01	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	3	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	9	5-g Encore	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	3	4 oz glass w/septum	4 C	Y
	P001-BBDGA-001-01	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	6	8 oz glass	4 C	Y

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	8:35 3-27-25		8:35 3-27-25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-001-02	P001-BBDGA-001		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		F	SPLP EPH	Stone	3/26/2025	09:30	1	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		G	SPLP VOCs	Stone	3/26/2025	09:30	3	5-g Encore	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:30	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-001-02	P001-BBDGA-001		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:30	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0855 3/27/25		8:35 3-27-25	IR Gun #1 2.1°C No Custody Seal Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-002-01	P001-BBDGA-002		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		F	SPLP EPH	Stone	3/26/2025	09:35	1	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		G	SPLP VOCs	Stone	3/26/2025	09:35	3	5-g Encore	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:35	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-002-01	P001-BBDGA-002		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:35	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		0835 3-27-25	IR Gun #1 2.1°C
					No Custody Seal
					No Temp Blank

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-003-01	P001-BBDGA-003		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		F	SPLP EPH	Stone	3/26/2025	09:40	1	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		G	SPLP VOCs	Stone	3/26/2025	09:40	3	5-g Encore	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:40	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-003-01	P001-BBDGA-003		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:40	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Cont # 1 2.1°
					No Custody Seal
					Temp Blank pres

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-004-01	P001-BBDGA-004		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		F	SPLP EPH	Stone	3/26/2025	09:45	1	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		G	SPLP VOCs	Stone	3/26/2025	09:45	3	5-g Encore	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:45	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-004-01	P001-BBDGA-004		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:45	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0935 3/27/25		0:35 3.27.25	If C-#1 2.1 °C No Custody Seal Temp Blk present

Q16664

USEPA
DateShipped: 3/26/2025
CarrierName: Hand Deliver
AirbillNo: N/a

CHAIN OF CUSTODY RECORD
Site #: 02FP
Contact Name Josh Frizzell
(470) 277-4600

No: 2-032625-0004-0037-01
RFP# 905A
Lab: Alliance Technical Group, LLC - Non CLP
Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-005-01	P001-BBDGA-005		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		F	SPLP EPH	Stone	3/26/2025	09:50	1	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		G	SPLP VOCs	Stone	3/26/2025	09:50	3	5-g Encore	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:50	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-005-01	P001-BBDGA-005		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:50	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3-27-25	IR Gun # 1 2.1 No Custody Seal Trip Blank

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-006-01	P001-BBDGA-006		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		E	EPH (TAT 3 Days)	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		F	SPLP EPH	Stone	3/26/2025	09:55	1	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		G	SPLP VOCs	Stone	3/26/2025	09:55	3	5-g Encore	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	09:55	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-006-01	P001-BBDGA-006		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	09:55	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		8:35 3-27-25	IR Gun 1 2.1 C No Custody Seal Intact Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-007-01	P001-BBDGA-007		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		F	SPLP EPH	Stone	3/26/2025	10:00	1	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		G	SPLP VOCs	Stone	3/26/2025	10:00	3	5-g Encore	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:00	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-007-01	P001-BBDGA-007		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:00	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	3/27/25 0835		0835 3-27-25	IR Gun #1 2.1°C No Custody Seal Temp Blank present

Q1664

USEPA

DateShipped: 3/26/2025

CarrierName: Hand Deliver

AirbillNo: N/a

CHAIN OF CUSTODY RECORD

Site #: 02FP

Contact Name Josh Frizzell

(470) 277-4600

No: 2-032625-0004-0037-01

RFP# 905A

Lab: Alliance Technical Group, LLC - Non CLP

Lab Phone: 908-728-3144

Lab #	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	P001-BBDGA-008-01	P001-BBDGA-008		A	TAL VOCs (TAT 3 Days)	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		B	TAL SVOC+Pest+PCB (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		C	Percent Moisture (TAT 3 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		D	TAL Metals+Hg+CN (TAT 3 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		E	EPH (TAT 3 Days)	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		F	SPLP EPH	Stone	3/26/2025	10:05	1	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		G	SPLP VOCs	Stone	3/26/2025	10:05	3	5-g Encore	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		H	SPLP SVOCs + Pest+PCBs (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		I	Percent Moisture (SPLP) (TAT 7 Days)	Stone	3/26/2025	10:05	1	4 oz glass w/septum	4 C	N
	P001-BBDGA-008-01	P001-BBDGA-008		J	SPLP Metals+Hg+CN (TAT 7 Days)	Stone	3/26/2025	10:05	2	8 oz glass	4 C	N

Special Instructions: Please email results to S.Sumbaly@WestonSolutions.com and Josh.Frizzell@WestonSolutions.com. TAT for TAL analyses is 3 days. TAT for SPLP analyses is 7 days.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
ALL SAMPLES ALL ANALYSES	WESTON	0835 3/27/25		8:35 3.27.25	IR Gun #1 2.1 C no Custody Seal Temp Blank present

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q1664-01	P001-BBDGA-001-01	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days	3 Days	
Q1664-02	Q1664-01MS	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-03	Q1664-01MSD	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-07	P001-BBDGA-001-02	Solid	03/26/2025	09:30						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-09	P001-BBDGA-002-01	Solid	03/26/2025	09:35						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-11	P001-BBDGA-003-01	Solid	03/26/2025	09:40						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-13	P001-BBDGA-004-01	Solid	03/26/2025	09:45						
					VOC-TCLVOA-10		8260D	10 Bus. Days		
Q1664-15	P001-BBDGA-005-01	Solid	03/26/2025	09:50						

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1664 ROYF02
Client Name : Weston Solutions, Inc.
Client Contact : Smita Sumbaly
Invoice Name : Weston Solutions, Inc.
Invoice Contact : Smita Sumbaly

Order Date : 3/27/2025 10:47:00 AM
Project Name : RFP 905
Receive DateTime : 3/27/2025 8:35:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EXCEL NOCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-TCLVOA-10		8260D	10 Bus. Days	3 days
Q1664-17	P001-BBDGA-006-01	Solid	03/26/2025	09:55					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-19	P001-BBDGA-007-01	Solid	03/26/2025	10:00					
					VOC-TCLVOA-10		8260D	10 Bus. Days	
Q1664-21	P001-BBDGA-008-01	Solid	03/26/2025	10:05					
					VOC-TCLVOA-10		8260D	10 Bus. Days	

Relinguished By :
Date / Time : 3/27/25 1200

Received By :
Date / Time : 03.27.25 12:00
Storage Area : VOA Refridgerator Room