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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : CON EDISON - EAST RIVER SITE 2

PARSONS ENGINEERING OF NEW YORK, INC.

301 Plainfield Road

Suite 350

Syracuse, NY - 13212

Phone No: 315-451-9560

ORDER ID : Q2592

ATTENTION : Zohar Lavy

Laboratory Certification ID # 20012

Alliance TECHNICAL GROUP

Table Of Contents for Q2592

1) TCLP SEMI-VOLATILE DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 12

9) QC Data Summary For TCLP BNA 13

- 9.1) Deuterated Monitoring Compound Summary 14
- 9.2) MS/MSD Summary 15
- 9.3) LCS/LCSD Summary 17
- 9.4) Method Blank Summary 18
- 9.5) GS/MS Tune Summary 19
- 9.6) Internal Standard Area and RT Summary 23

10) Sample Data 27

- 10.1) PB168847TB 28
- 10.2) WC-SOIL-20250711 38

11) Calibration Data Summary 48

- 11.1) Initial Calibration Data 3
  - 11.1.1) BF071525 49
  - 11.1.2) BM070925 453
- 11.2) Continued Calibration Data 866
  - 11.2.1) BF143117.D 866
  - 11.2.2) BM050474.D 922

12) QC Sample Data 979

- 12.1) Tune Raw Data 980
- 12.2) Method Blank Data 996
- 12.3) LCS Data 1007
- 12.4) MS Data 1059
- 12.5) MSD Data 1110

13) Manual Integration 1161

14) Analytical Runlogs 1166

15) Extraction Logs 1176

- 15.1) PB168847.pdf 1176

15.2) PB168847IC.pdf 1180
15.3) PB168885.pdf 1181
15.4) PB168885IC.pdf 1183
16) Standard Prep Logs 1184
17) Shipping Document 1359
17.1) Chain Of Custody 1360
17.2) Lab Certificate 1361
17.3) Internal COC 1362

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

Cover Page

Order ID : Q2592

Project ID : Con Edison - East River Site 2

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number	Client Sample Number
Q2592-01	WC-SOIL-20250711
Q2592-02	WC-SOIL-20250711

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 11:12 am, Jul 25, 2025

Date: 7/24/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

PARSONS Engineering of New York, Inc.
Project Name: Con Edison - East River Site 2
Project # N/A
Order ID # Q2592
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
1 Solid sample was received on 07/11/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: TCLP BNA. This data package contains results for TCLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um df. The samples were analyzed on instrument BNA_M using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGA. The analysis of TCLP BNA was based on method 8270E and extraction was done based on method 3510 and TCLP extraction method was 1311.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.
The MS recoveries met the requirements for all compounds.
The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The % RSD is greater than 20% in the Initial Calibration (8270-BF071525.M) for 2,4-Dinitrotoluene,this compound is passing on Linear Regression.

The % RSD is greater than 20% in the Initial Calibration (8270-BM070825.M) for 2,4-Dinitrotoluene,this compound is passing on Linear Regression.

The Continuous Calibration met the requirements.
The Tuning criteria met requirements.

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

E. Additional Comments:

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.

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 11:12 am, Jul 25, 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

ORDER ID: Q2592 MATRIX: TCLP

METHOD: 8270E/3510/1311

		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-BF071525.M) for 2,4-Dinitrotoluene,this compound is passing on Linear Regression.			
	The % RSD is greater than 20% in the Initial Calibration (8270-BM070825.M) for 2,4-Dinitrotoluene,this compound is passing on Linear Regression.			
	The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all compounds.			
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:			

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

		NA	NO	YES
11.	Analysis Holding Time Met			✓
	If not met, list number of days exceeded for each sample:			

ADDITIONAL COMMENTS:

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 _____ Date _____

REVIEWED
By Sohil Jodhani, QA/QC Director at 10:17 am, Jul 25, 2025

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2592

	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:** 07/24/2025

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

LAB CHRONICLE

OrderID:	Q2592	**OrderDate:**	7/11/2025 3:05:25 PM
Client:	PARSONS Engineering of New York, Inc.	**Project:**	Con Edison - East River Site 2
Contact:	Zohar Lavy	**Location:**	D51,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2592-01	**WC-SOIL-20250711**	**SOIL**			**07/11/25**			**07/11/25**
			SVOCMS Group1	8270E		07/15/25	07/16/25	
Q2592-02	**WC-SOIL-20250711**	**TCLP**			**07/11/25**			**07/11/25**
			TCLP BNA	8270E		07/16/25	07/16/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q2592

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2592

Client: PARSONS Engineering of New York, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	High
PB168847TB	PB168847TB	2-Fluorophenol	150	115	77		23	138
		Phenol-d6	150	114	76		10	134
		Nitrobenzene-d5	100	85.0	85		67	132
		2-Fluorobiphenyl	100	73.8	74		52	132
		2,4,6-Tribromophenol	150	134	90		44	137
		Terphenyl-d14	100	84.3	84		42	152
PB168885BL	PB168885BL	2-Fluorophenol	150	133	89		23	138
		Phenol-d6	150	129	86		10	134
		Nitrobenzene-d5	100	82.7	83		67	132
		2-Fluorobiphenyl	100	80.1	80		52	132
		2,4,6-Tribromophenol	150	157	105		44	137
		Terphenyl-d14	100	86.6	87		42	152
PB168885BS	PB168885BS	2-Fluorophenol	150	129	86		23	138
		Phenol-d6	150	130	87		10	134
		Nitrobenzene-d5	100	76.8	77		67	132
		2-Fluorobiphenyl	100	73.5	74		52	132
		2,4,6-Tribromophenol	150	150	100		44	137
		Terphenyl-d14	100	76.8	77		42	152
Q2592-02	WC-SOIL-20250711	2-Fluorophenol	150	103	68		23	138
		Phenol-d6	150	96.1	64		10	134
		Nitrobenzene-d5	100	81.1	81		67	132
		2-Fluorobiphenyl	100	69.8	70		52	132
		2,4,6-Tribromophenol	150	136	91		44	137
		Terphenyl-d14	100	74.4	74		42	152
Q2592-02MS	WC-SOIL-20250711MS	2-Fluorophenol	150	99.9	67		23	138
		Phenol-d6	150	95.0	63		10	134
		Nitrobenzene-d5	100	80.6	81		67	132
		2-Fluorobiphenyl	100	68.4	68		52	132
		2,4,6-Tribromophenol	150	126	84		44	137
		Terphenyl-d14	100	69.6	70		42	152
Q2592-02MSD	WC-SOIL-20250711MSD	2-Fluorophenol	150	100	67		23	138
		Phenol-d6	150	96.3	64		10	134
		Nitrobenzene-d5	100	82.6	83		67	132
		2-Fluorobiphenyl	100	68.6	69		52	132
		2,4,6-Tribromophenol	150	127	85		44	137
		Terphenyl-d14	100	68.7	69		42	152

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.: Q2592 **Analytical Method:** SW8270E

Client: PARSONS Engineering of New York, Inc. **DataFile:** BF143122.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2592-02MS		**Client Sample ID: WC-SOIL-20250711MS**									
Pyridine	500	0	290	ug/L	58				10	109	
1,4-Dichlorobenzene	500	0	360	ug/L	72				55	125	
2-Methylphenol	500	0	390	ug/L	78				60	131	
3+4-Methylphenols	500	0	390	ug/L	78				54	136	
Hexachloroethane	500	0	370	ug/L	74				19	146	
Nitrobenzene	500	0	430	ug/L	86				62	112	
Hexachlorobutadiene	500	0	390	ug/L	78				52	125	
2,4,6-Trichlorophenol	500	0	440	ug/L	88				78	112	
2,4,5-Trichlorophenol	500	0	430	ug/L	86				71	111	
2,4-Dinitrotoluene	500	0	460	ug/L	92				74	137	
Hexachlorobenzene	500	0	430	ug/L	86				72	115	
Pentachlorophenol	1000	0	750	ug/L	75				52	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.: Q2592 **Analytical Method:** SW8270E

Client: PARSONS Engineering of New York, Inc. **DataFile:** BF143123.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2592-02MSD		**Client Sample ID: WC-SOIL-20250711MSD**									
Pyridine	500	0	290	ug/L	58	0			10	109	20
1,4-Dichlorobenzene	500	0	360	ug/L	72	0			55	125	20
2-Methylphenol	500	0	400	ug/L	80	3			60	131	20
3+4-Methylphenols	500	0	400	ug/L	80	3			54	136	20
Hexachloroethane	500	0	380	ug/L	76	3			19	146	20
Nitrobenzene	500	0	430	ug/L	86	0			62	112	20
Hexachlorobutadiene	500	0	390	ug/L	78	0			52	125	20
2,4,6-Trichlorophenol	500	0	440	ug/L	88	0			78	112	20
2,4,5-Trichlorophenol	500	0	430	ug/L	86	0			71	111	20
2,4-Dinitrotoluene	500	0	470	ug/L	94	2			74	137	20
Hexachlorobenzene	500	0	440	ug/L	88	2			72	115	20
Pentachlorophenol	1000	0	710	ug/L	71	5			52	162	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.: Q2592 **Analytical Method:** 8270E

Client: PARSONS Engineering of New York, Inc. **DataFile:** BM050476.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168885BS	Pyridine	50	39.1	ug/L	78				29	97	
	1,4-Dichlorobenzene	50	43.0	ug/L	86				76	103	
	2-Methylphenol	50	47.4	ug/L	95				69	109	
	3+4-Methylphenols	50	47.8	ug/L	96				67	106	
	Hexachloroethane	50	43.1	ug/L	86				76	118	
	Nitrobenzene	50	44.3	ug/L	89				58	106	
	Hexachlorobutadiene	50	44.8	ug/L	90				69	101	
	2,4,6-Trichlorophenol	50	50.9	ug/L	102				61	110	
	2,4,5-Trichlorophenol	50	51.7	ug/L	103				70	106	
	2,4-Dinitrotoluene	50	49.2	ug/L	98				60	115	
	Hexachlorobenzene	50	47.8	ug/L	96				73	106	
	Pentachlorophenol	100	110	ug/L	110				47	114	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB168885BL

Lab Name: Alliance | Contract: PARS02

Lab Code: ACE | SDG NO.: Q2592

Lab File ID: BM050475.D | Lab Sample ID: PB168885BL

Instrument ID: BNA_M | Date Extracted: 07/16/2025

Matrix: (soil/water) water | Date Analyzed: 07/17/2025

Level: (low/med) LOW | Time Analyzed: 14:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168885BS	PB168885BS	BM050476.D	07/17/2025
PB168847TB	PB168847TB	BF143120.D	07/16/2025
WC-SOIL-20250711	Q2592-02	BF143121.D	07/16/2025
WC-SOIL-20250711MS	Q2592-02MS	BF143122.D	07/16/2025
WC-SOIL-20250711MSD	Q2592-02MSD	BF143123.D	07/16/2025

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: Alliance Contract: PARS02

Lab Code: ACE SDG NO.: Q2592

Lab File ID: BF143092.D DFTPP Injection Date: 07/15/2025

Instrument ID: BNA_F DFTPP Injection Time: 12:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (2) 1
69	Mass 69 relative abundance	100.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	4.0
441	Present, but less than mass 443	77.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 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	BF143093.D	07/15/2025	13:04
SSTDICC005	SSTDICC005	BF143094.D	07/15/2025	13:35
SSTDICC010	SSTDICC010	BF143095.D	07/15/2025	14:05
SSTDICC020	SSTDICC020	BF143096.D	07/15/2025	14:36
SSTDICCC040	SSTDICCC040	BF143097.D	07/15/2025	15:05
SSTDICC050	SSTDICC050	BF143098.D	07/15/2025	15:35
SSTDICC060	SSTDICC060	BF143099.D	07/15/2025	16:05
SSTDICC080	SSTDICC080	BF143100.D	07/15/2025	16:35

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: Alliance Contract: PARS02

Lab Code: ACE SDG NO.: Q2592

Lab File ID: BF143116.D DFTPP Injection Date: 07/16/2025

Instrument ID: BNA_F DFTPP Injection Time: 19:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	100.0
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	79.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143117.D	07/16/2025	19:39
PB168847TB	PB168847TB	BF143120.D	07/16/2025	21:09
WC-SOIL-20250711	Q2592-02	BF143121.D	07/16/2025	21:39
WC-SOIL-20250711MS	Q2592-02MS	BF143122.D	07/16/2025	22:09
WC-SOIL-20250711MSD	Q2592-02MSD	BF143123.D	07/16/2025	22:38

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: Alliance Contract: PARS02

Lab Code: ACE SDG NO.: Q2592

Lab File ID: BM050376.D DFTPP Injection Date: 07/08/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	100.0
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	81.4
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	12.9 (19.4) 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	BM050377.D	07/08/2025	12:39
SSTDICC005	SSTDICC005	BM050378.D	07/08/2025	13:19
SSTDICC010	SSTDICC010	BM050379.D	07/08/2025	14:00
SSTDICC020	SSTDICC020	BM050380.D	07/08/2025	14:40
SSTDICCC040	SSTDICCC040	BM050381.D	07/08/2025	15:20
SSTDICC050	SSTDICC050	BM050382.D	07/08/2025	16:01
SSTDICC060	SSTDICC060	BM050383.D	07/08/2025	16:41
SSTDICC080	SSTDICC080	BM050384.D	07/08/2025	17:22

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: Alliance Contract: PARS02

Lab Code: ACE SDG NO.: Q2592

Lab File ID: BM050473.D DFTPP Injection Date: 07/17/2025

Instrument ID: BNA_M DFTPP Injection Time: 13:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	100.0
70	Less than 2.0% of mass 69	0.1 (0.5) 1
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	80.2
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	16.6 (19.4) 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	BM050474.D	07/17/2025	13:42
PB168885BL	PB168885BL	BM050475.D	07/17/2025	14:57
PB168885BS	PB168885BS	BM050476.D	07/17/2025	15:57

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: Alliance

Lab Code: ACE SDG NO.: Q2592

Client ID : SSTDCCC040 Date Analyzed: 07/16/2025

Lab File ID: BF143117.D Time Analyzed: 19:39

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	135149	6.969	510164	8.25	254065	10.00
	UPPER LIMIT	270298	7.469	1020330	8.751	508130	10.504
	LOWER LIMIT	67574.5	6.469	255082	7.751	127033	9.504
	EPA SAMPLE NO.						
01	WC-SOIL-20250711	137278	6.97	517786	8.25	265739	10.00
02	WC-SOIL-20250711MS	147018	6.97	556657	8.25	279575	10.00
03	WC-SOIL-20250711MSD	155046	6.97	589623	8.25	296871	10.00
04	PB168847TB	135526	6.96	521315	8.25	267383	10.00

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: Alliance

Lab Code: ACE SDG NO.: Q2592

Client ID: SSTDCCC040 Date Analyzed: 07/16/2025

Lab File ID: BF143117.D Time Analyzed: 19:39

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	397173	11.492	210714	14.127	255524	15.633
	UPPER LIMIT	794346	11.992	421428	14.627	511048	16.133
	LOWER LIMIT	198587	10.992	105357	13.627	127762	15.133
	EPA SAMPLE NO.						
01	WC-SOIL-20250711	451811	11.49	249471	14.13	227071	15.63
02	WC-SOIL-20250711MS	442443	11.49	237238	14.13	283551	15.63
03	WC-SOIL-20250711MSD	461806	11.49	242870	14.13	288284	15.63
04	PB168847TB	451109	11.49	235930	14.13	210500	15.63

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: Alliance

Lab Code: ACE SDG NO.: Q2592

Client ID : SSTDCCC040 Date Analyzed: 07/17/2025

Lab File ID: BM050474.D Time Analyzed: 13:42

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	523700	7.851	1980060	10.64	1283320	14.47
	UPPER LIMIT	1047400	8.351	3960120	11.139	2566640	14.974
	LOWER LIMIT	261850	7.351	990030	10.139	641660	13.974
	EPA SAMPLE NO.						
01	PB168885BL	484190	7.85	1695350	10.64	1085070	14.47
02	PB168885BS	516385	7.85	1948200	10.64	1313340	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: Alliance

Lab Code: ACE SDG NO.: Q2592

Client ID: SSTDCCC040 Date Analyzed: 07/17/2025

Lab File ID: BM050474.D Time Analyzed: 13:42

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	2540660	17.209	2672210	21.433	2895080	24.456
	UPPER LIMIT	5081320	17.709	5344420	21.933	5790160	24.956
	LOWER LIMIT	1270330	16.709	1336110	20.933	1447540	23.956
	EPA SAMPLE NO.						
01	PB168885BL	2246800	17.20	2374390	21.43	2623120	24.45
02	PB168885BS	2583210	17.21	2737580	21.43	2912640	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.

SAMPLE DATA

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/16/25
Project:	Con Edison - East River Site 2	Date Received:	07/16/25
Client Sample ID:	PB168847TB	SDG No.:	Q2592
Lab Sample ID:	PB168847TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143120.D	1	07/16/25 10:14	07/16/25 21:09	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.0	100	ug/L
67-72-1	Hexachloroethane	50.0	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	115		23 - 138	77%	SPK: 150
13127-88-3	Phenol-d6	114		10 - 134	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.0		67 - 132	85%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.8		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		44 - 137	90%	SPK: 150
1718-51-0	Terphenyl-d14	84.3		42 - 152	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	136000	6.963			
1146-65-2	Naphthalene-d8	521000	8.245			
15067-26-2	Acenaphthene-d10	267000	10.004			
1517-22-2	Phenanthrene-d10	451000	11.486			
1719-03-5	Chrysene-d12	236000	14.127			
1520-96-3	Perylene-d12	211000	15.633			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	07/16/25
Project:	Con Edison - East River Site 2			Date Received:	07/16/25
Client Sample ID:	PB168847TB			SDG No.:	Q2592
Lab Sample ID:	PB168847TB			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143120.D	1	07/16/25 10:14	07/16/25 21:09	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_F\Data\BF071625\
Data File : BF143120.D
Acq On : 16 Jul 2025 21:09
Operator : RC/JU
Sample : PB168847TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Quant Time: Jul 17 03:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

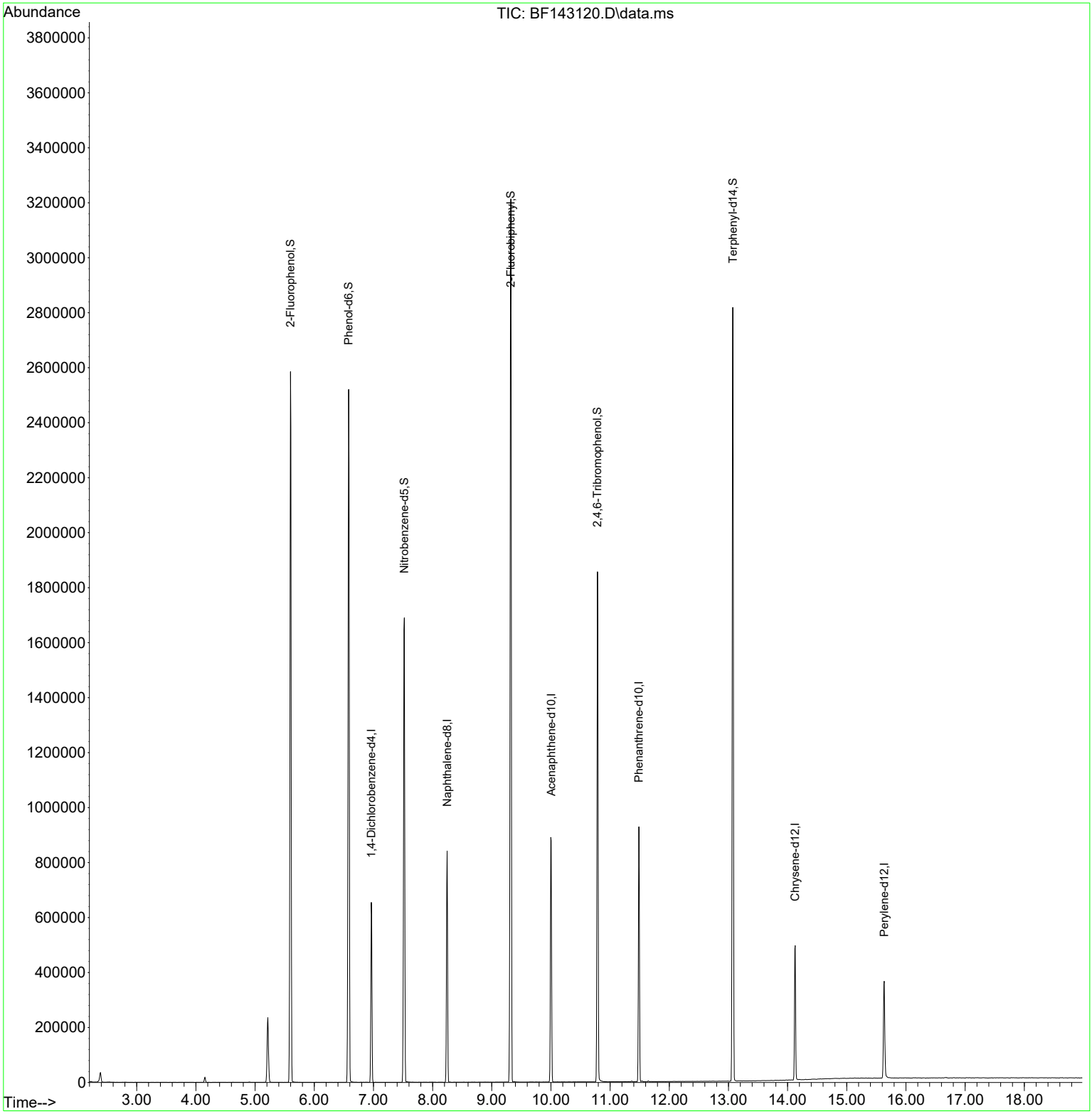
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	135526	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	521315	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	267383	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	451109	20.000	ng	0.00
76) Chrysene-d12	14.127	240	235930	20.000	ng	0.00
86) Perylene-d12	15.633	264	210500	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.598	112	985525	114.890	ng	0.01
7) Phenol-d6	6.581	99	1227503	113.842	ng	0.00
23) Nitrobenzene-d5	7.522	82	789663	84.975	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	320449	134.409	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	1484404	73.796	ng	0.00
79) Terphenyl-d14	13.074	244	1360096	84.271	ng	0.00
Target Compounds						Qvalue

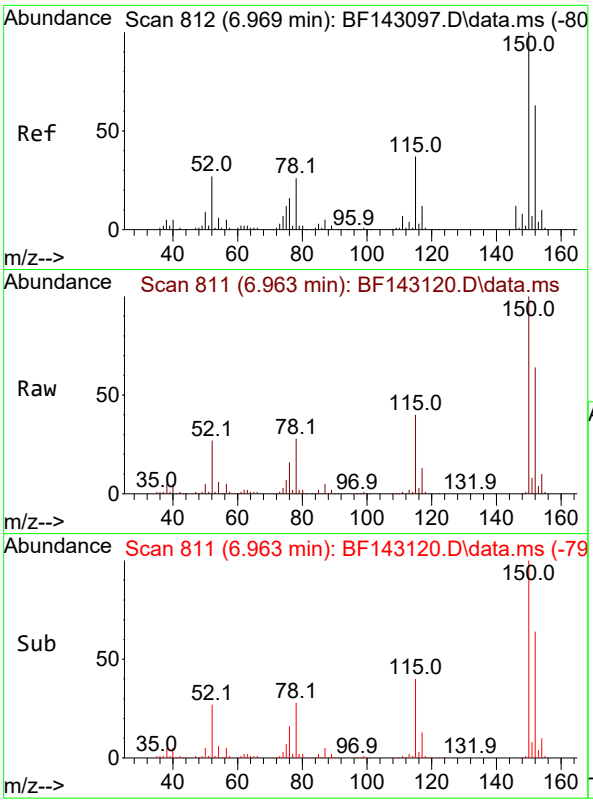
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143120.D
Acq On : 16 Jul 2025 21:09
Operator : RC/JU
Sample : PB168847TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Quant Time: Jul 17 03:45:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration



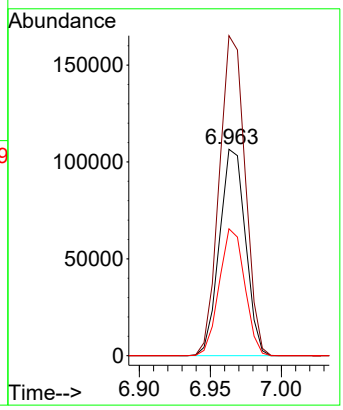


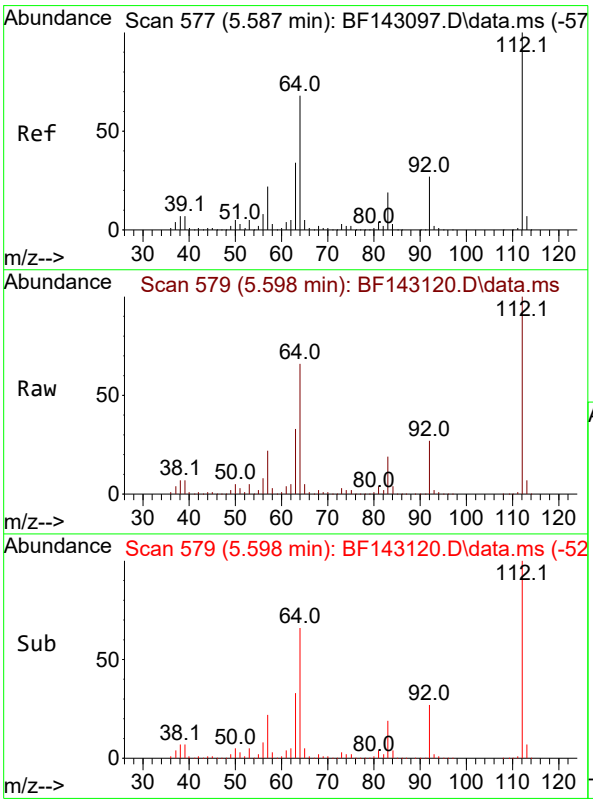
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion:152 Resp: 135526

Ion	Ratio	Lower	Upper
152	100		
150	155.1	126.5	189.7
115	61.5	47.0	70.6

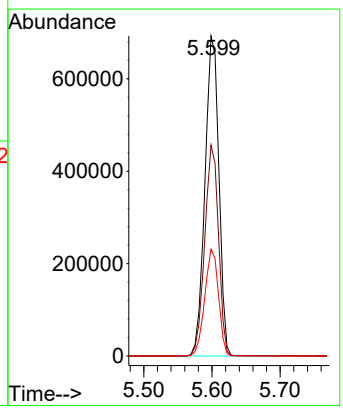


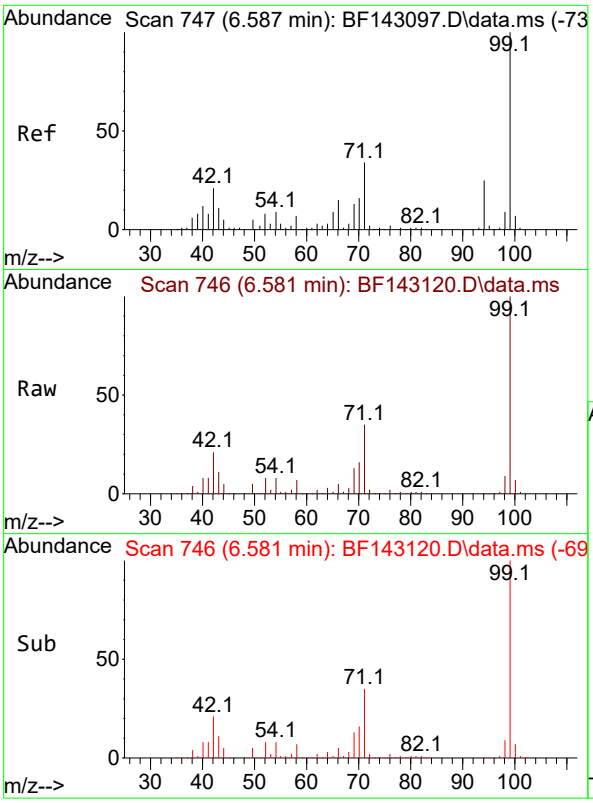


#5
2-Fluorophenol
Concen: 114.890 ng
RT: 5.598 min Scan# 579
Delta R.T. 0.012 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:112 Resp: 985525

Ion	Ratio	Lower	Upper
112	100		
64	65.9	54.6	82.0
63	33.4	27.3	40.9



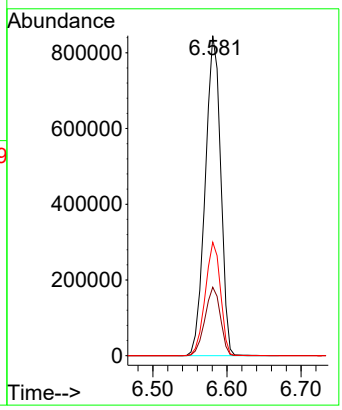


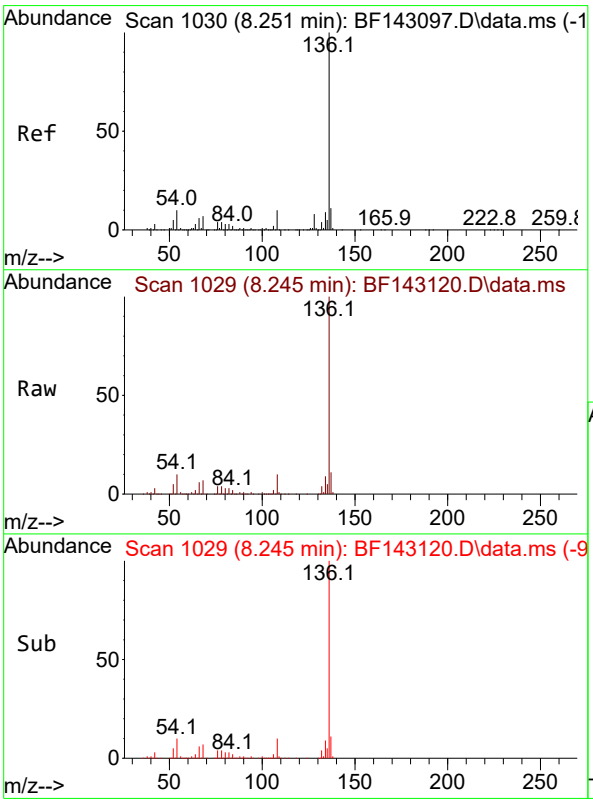
#7
Phenol-d6
Concen: 113.842 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion: 99 Resp: 1227503

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	35.4	27.4	41.0

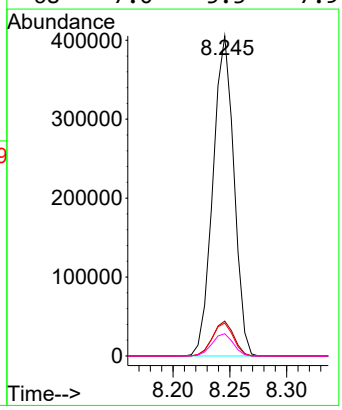


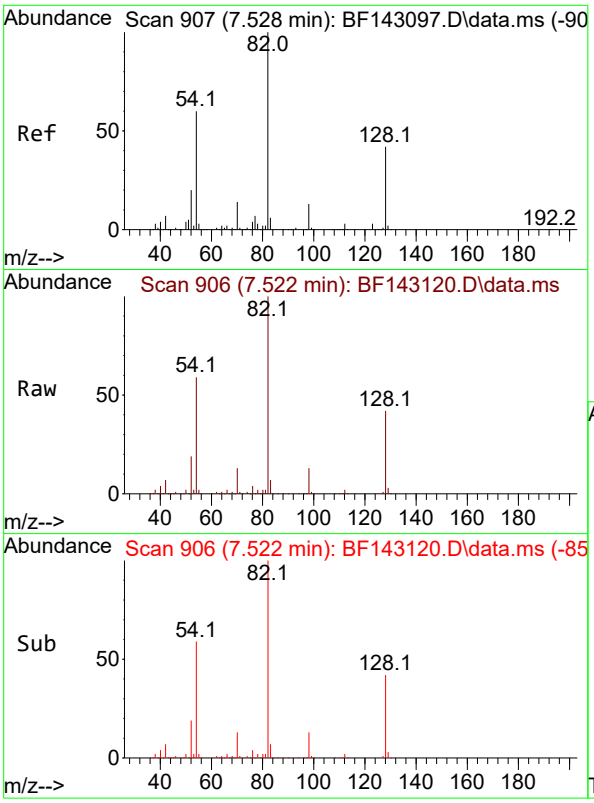


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:136 Resp: 521315

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	10.3	8.3	12.5
68	7.0	5.3	7.9



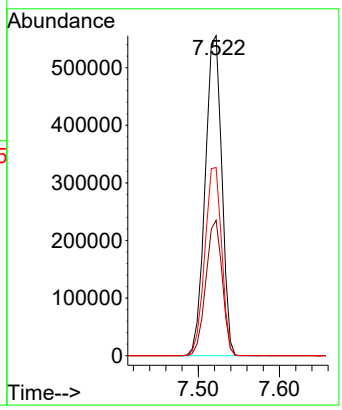


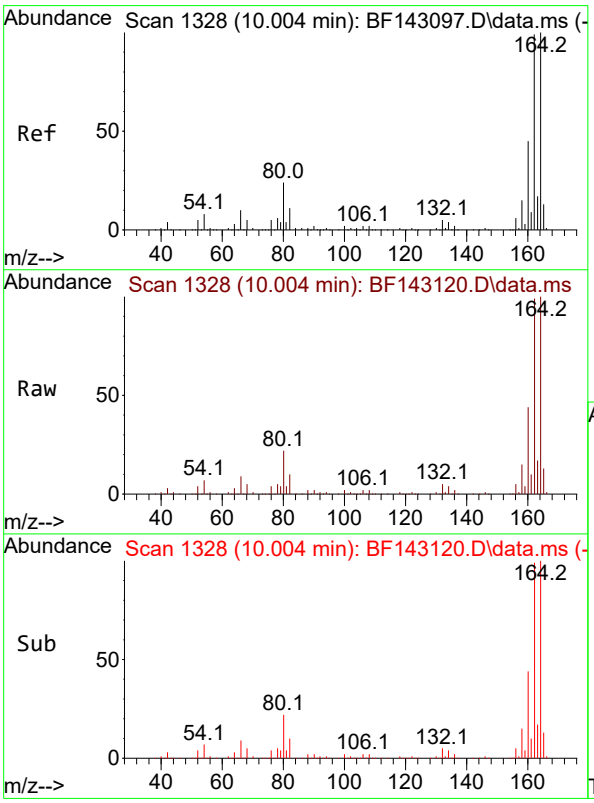
#23
Nitrobenzene-d5
Concen: 84.975 ng
RT: 7.522 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion: 82 Resp: 789663

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.3	49.9
54	58.8	47.4	71.2

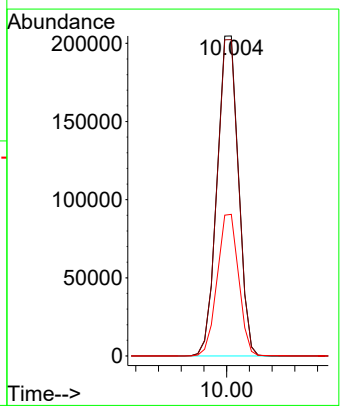


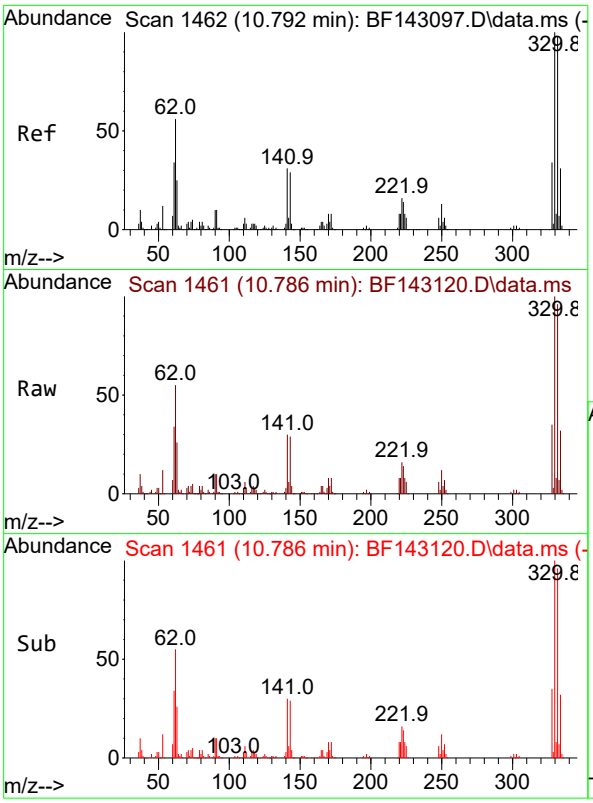


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:164 Resp: 267383

Ion	Ratio	Lower	Upper
164	100		
162	98.8	79.0	118.6
160	44.3	35.8	53.6



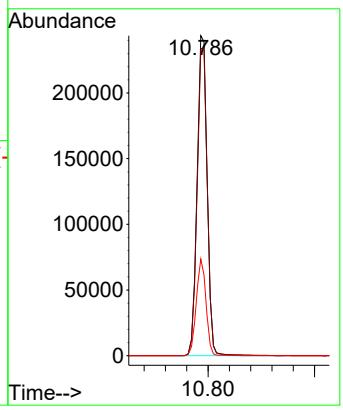


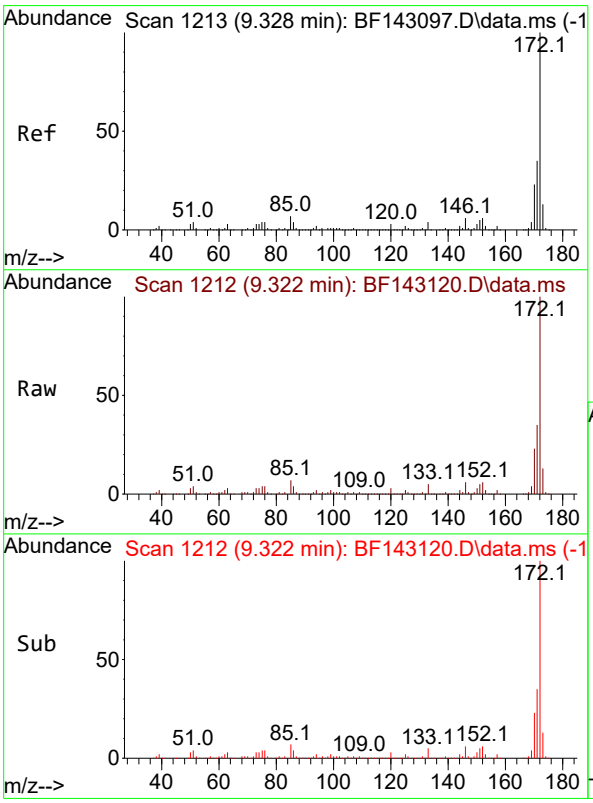
#42
2,4,6-Tribromophenol
Concen: 134.409 ng
RT: 10.786 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion:330 Resp: 320449

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.9	116.9
141	29.2	25.9	38.9

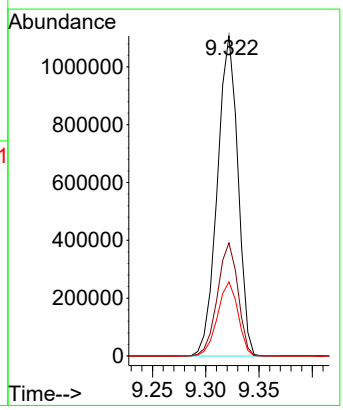


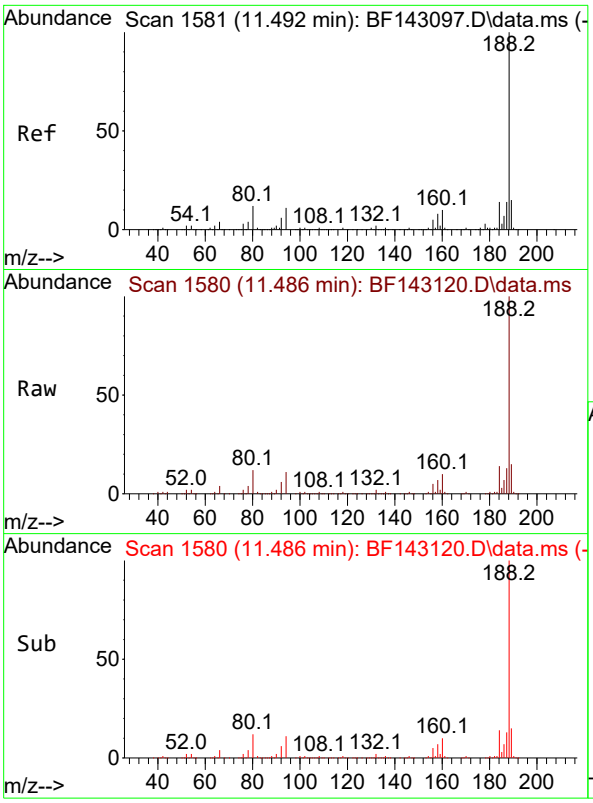


#45
2-Fluorobiphenyl
Concen: 73.796 ng
RT: 9.322 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:172 Resp: 1484404

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.2	42.4
170	23.2	18.6	28.0



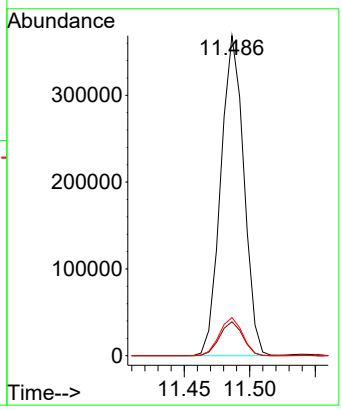


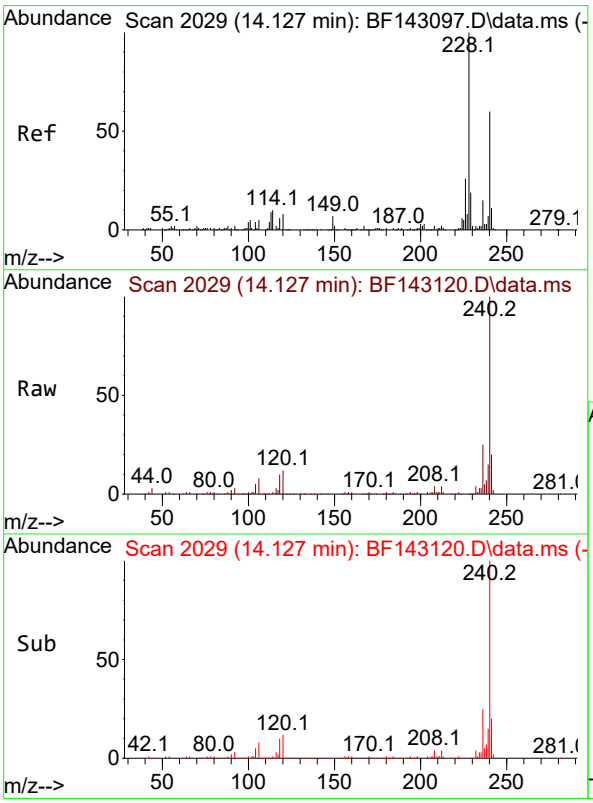
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion:188 Resp: 451109

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.6	13.0
80	11.9	9.3	13.9

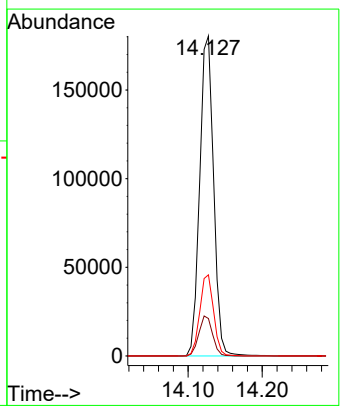


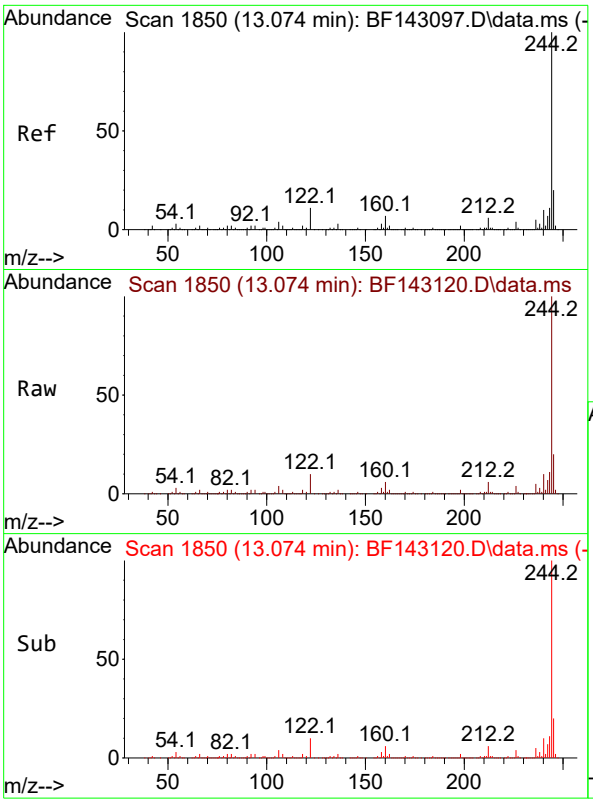


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:240 Resp: 235930

Ion	Ratio	Lower	Upper
240	100		
120	11.7	10.0	15.0
236	25.4	20.0	30.0



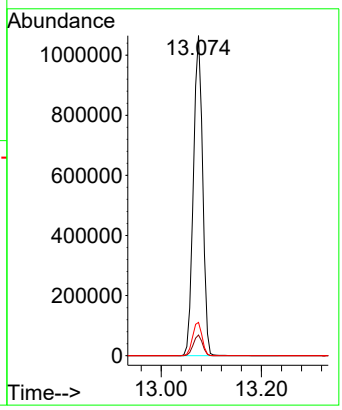


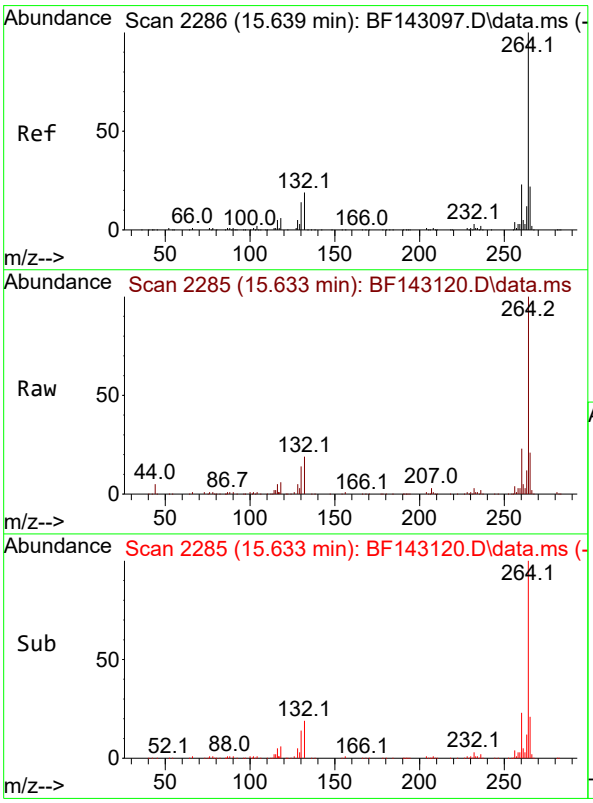
#79
Terphenyl-d14
Concen: 84.271 ng
RT: 13.074 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Instrument :
BNA_F
ClientSampleId :
PB168847TB

Tgt Ion:244 Resp: 1360096

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	10.4	8.8	13.2

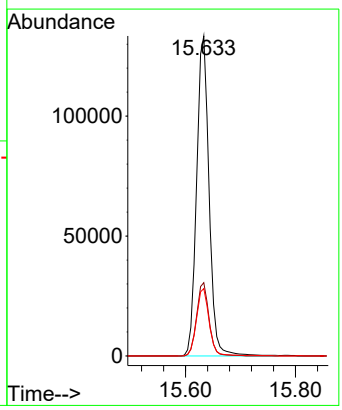




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143120.D
Acq: 16 Jul 2025 21:09

Tgt Ion:264 Resp: 210500

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.5	27.7
265	21.1	17.5	26.3



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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711	SDG No.:	Q2592
Lab Sample ID:	Q2592-02	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143121.D	1	07/16/25 10:14	07/16/25 21:39	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.0	100	ug/L
67-72-1	Hexachloroethane	50.0	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	103		23 - 138	68%	SPK: 150
13127-88-3	Phenol-d6	96.1		10 - 134	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.1		67 - 132	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	69.8		52 - 132	70%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	91%	SPK: 150
1718-51-0	Terphenyl-d14	74.4		42 - 152	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	137000	6.969			
1146-65-2	Naphthalene-d8	518000	8.245			
15067-26-2	Acenaphthene-d10	266000	9.998			
1517-22-2	Phenanthrene-d10	452000	11.486			
1719-03-5	Chrysene-d12	249000	14.127			
1520-96-3	Perylene-d12	227000	15.633			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711	SDG No.:	Q2592
Lab Sample ID:	Q2592-02	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143121.D	1	07/16/25 10:14	07/16/25 21:39	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_F\Data\BF071625\
Data File : BF143121.D
Acq On : 16 Jul 2025 21:39
Operator : RC/JU
Sample : Q2592-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Quant Time: Jul 17 03:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

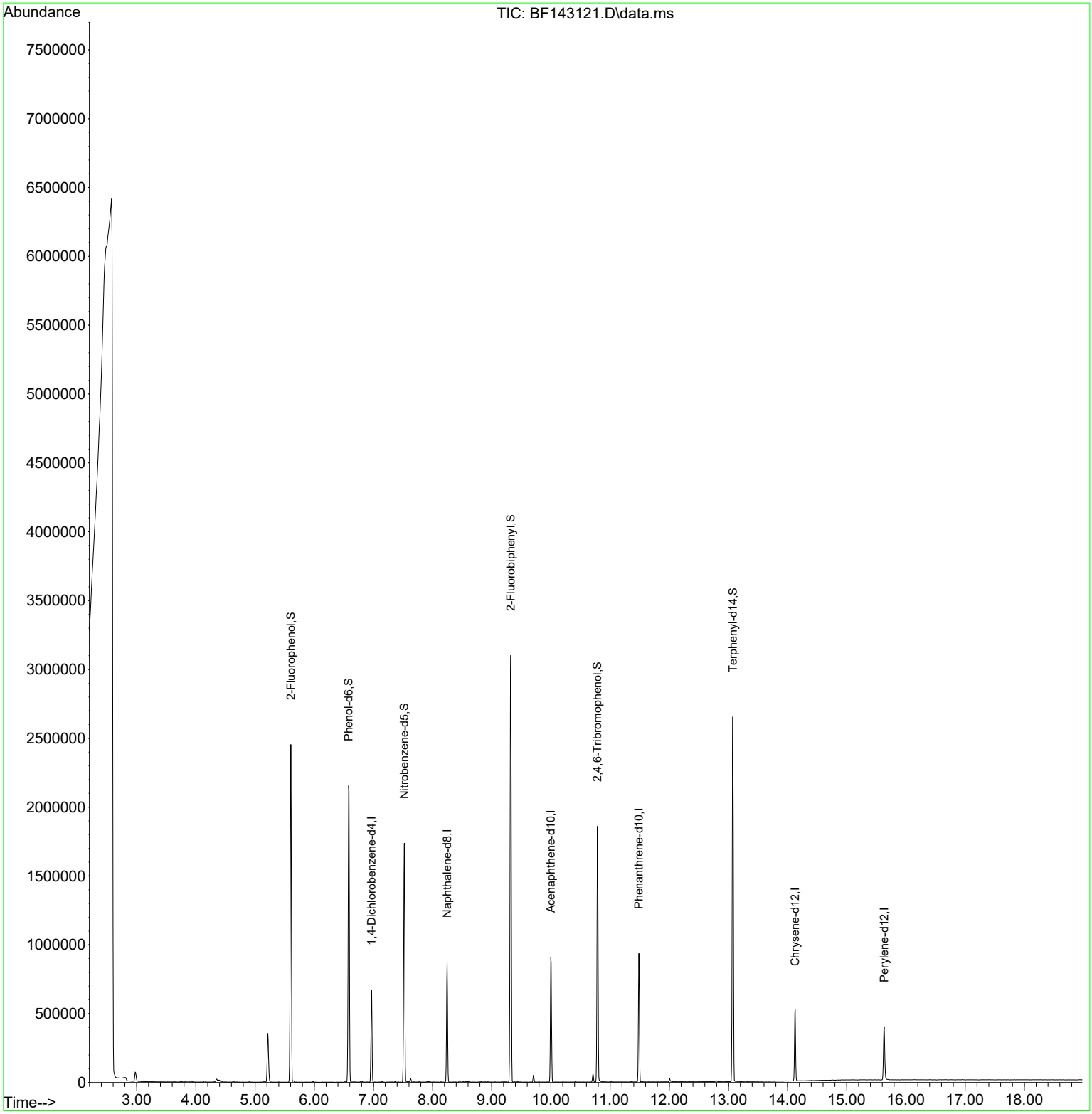
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	137278	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	517786	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	265739	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	451811	20.000	ng	0.00
76) Chrysene-d12	14.127	240	249471	20.000	ng	0.00
86) Perylene-d12	15.633	264	227071	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.604	112	892422	102.709	ng	0.02
7) Phenol-d6	6.581	99	1049480	96.090	ng	0.00
23) Nitrobenzene-d5	7.522	82	748497	81.094	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	322134	135.952	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	1394625	69.762	ng	0.00
79) Terphenyl-d14	13.075	244	1268948	74.356	ng	0.00
Target Compounds						Qvalue

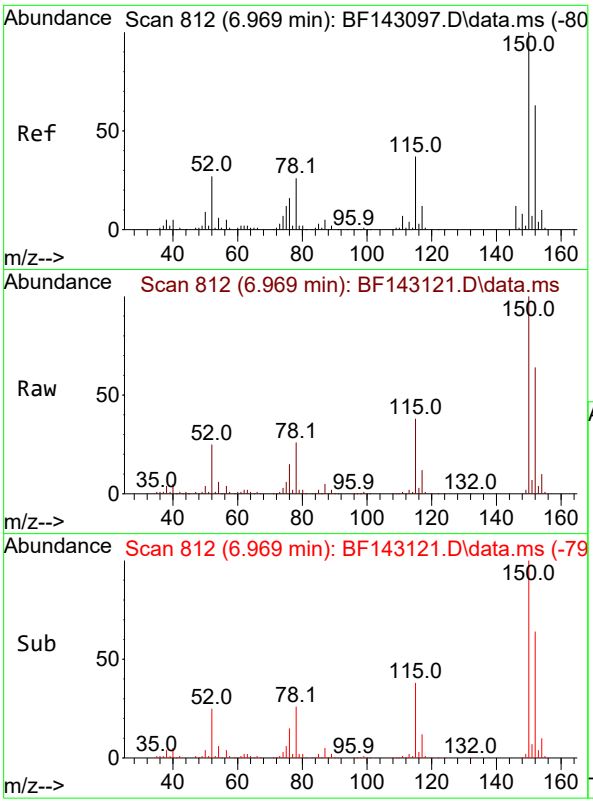
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143121.D
Acq On : 16 Jul 2025 21:39
Operator : RC/JU
Sample : Q2592-02
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Quant Time: Jul 17 03:45:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration



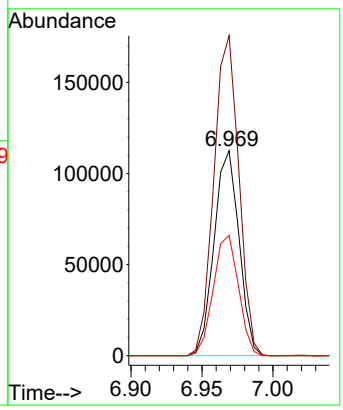


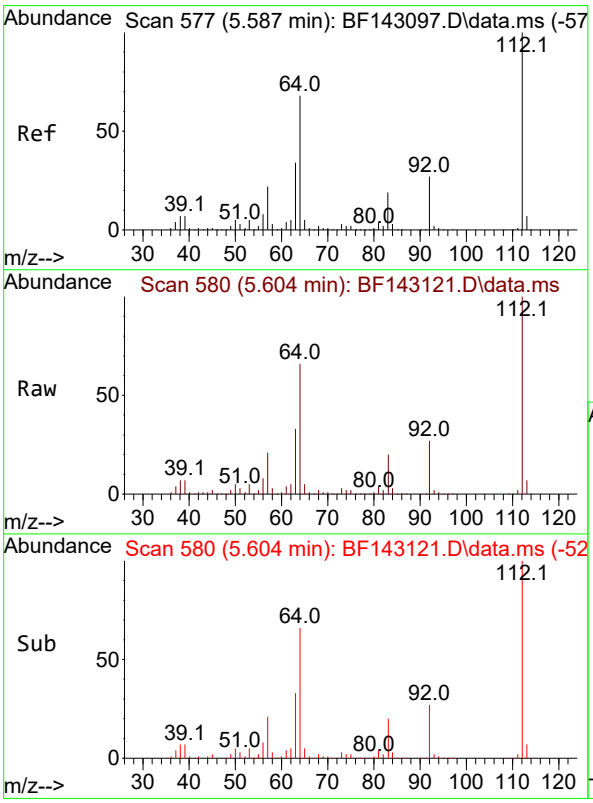
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion:152 Resp: 137278

Ion	Ratio	Lower	Upper
152	100		
150	156.1	126.5	189.7
115	58.7	47.0	70.6

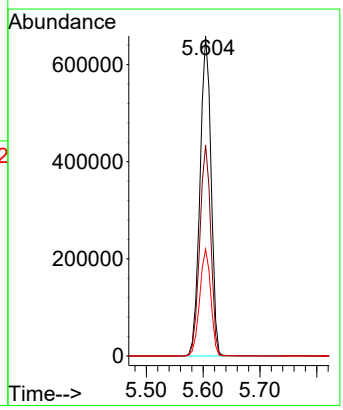


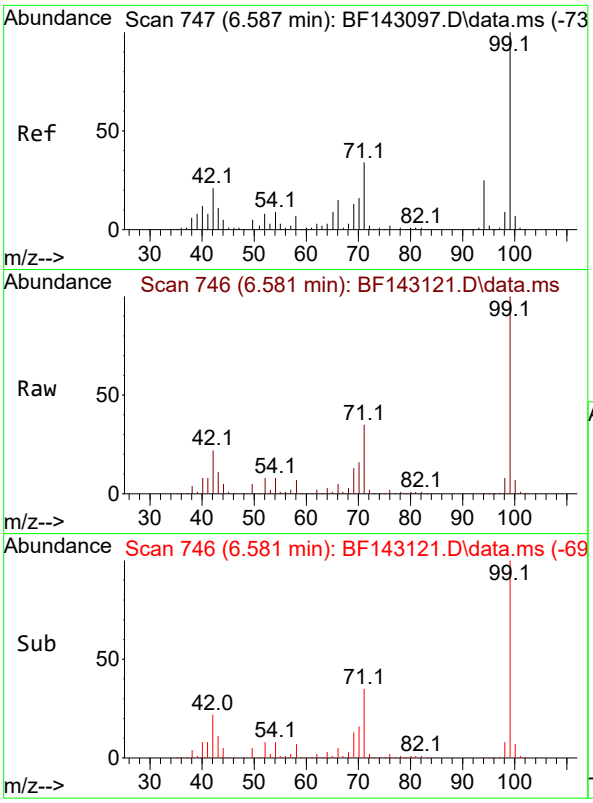


#5
2-Fluorophenol
Concen: 102.709 ng
RT: 5.604 min Scan# 580
Delta R.T. 0.018 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:112 Resp: 892422

Ion	Ratio	Lower	Upper
112	100		
64	66.0	54.6	82.0
63	33.4	27.3	40.9



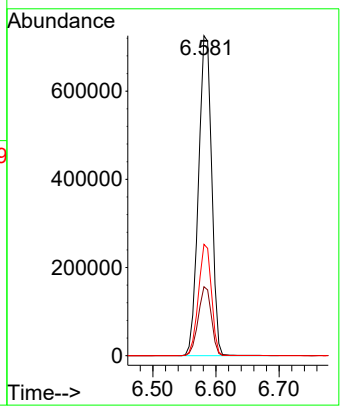


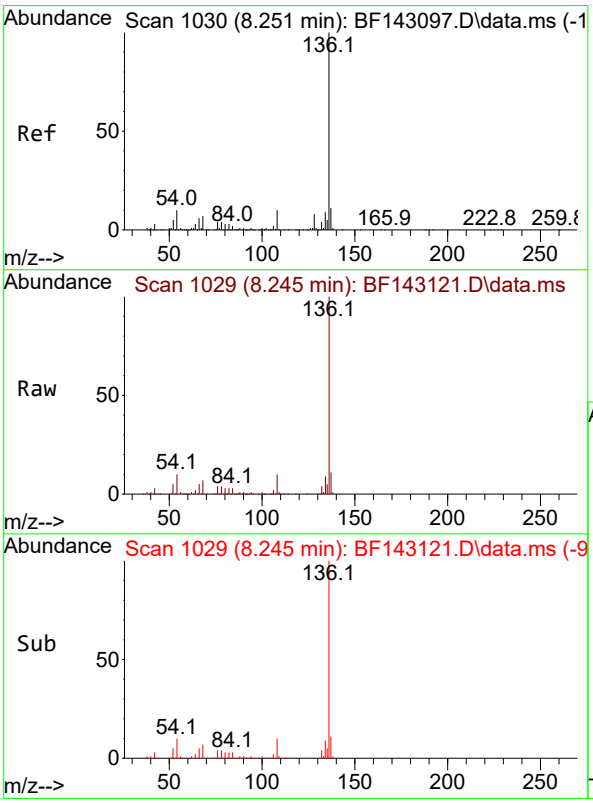
#7
Phenol-d6
Concen: 96.090 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion: 99 Resp: 1049480

Ion	Ratio	Lower	Upper
99	100		
42	21.6	17.2	25.8
71	34.8	27.4	41.0

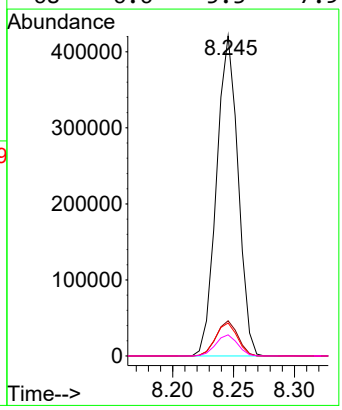


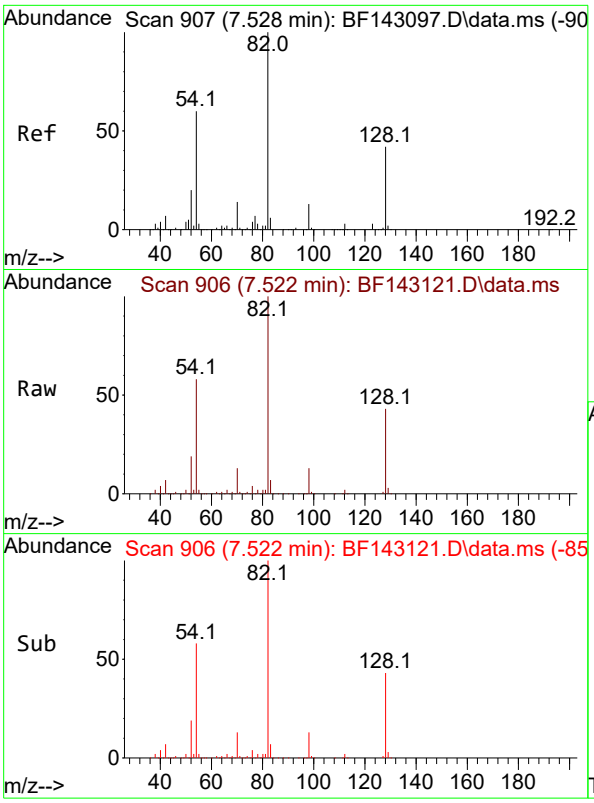


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:136 Resp: 517786

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	10.3	8.3	12.5
68	6.6	5.3	7.9



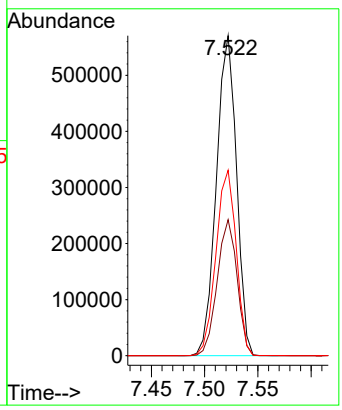


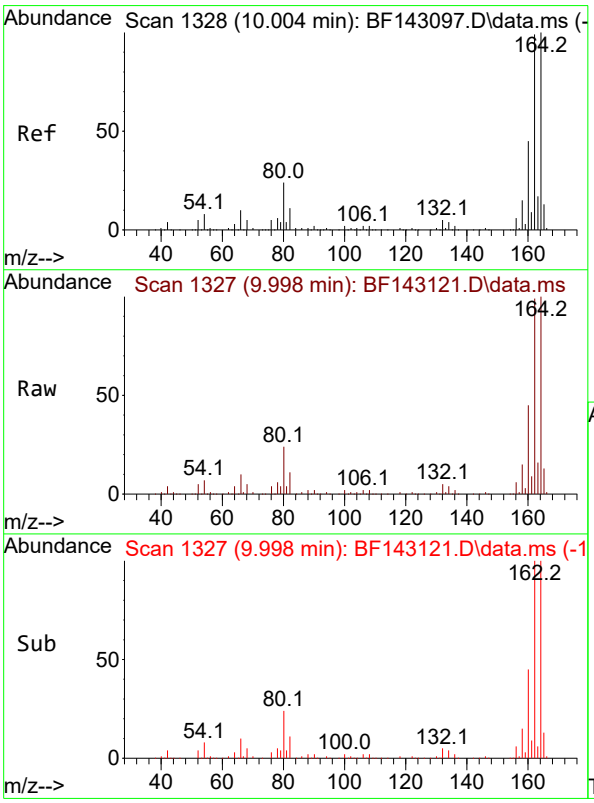
#23
Nitrobenzene-d5
Concen: 81.094 ng
RT: 7.522 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion: 82 Resp: 748497

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.3	49.9
54	58.0	47.4	71.2

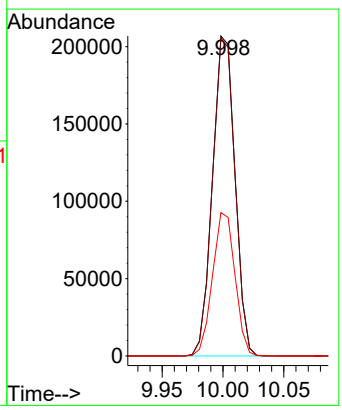


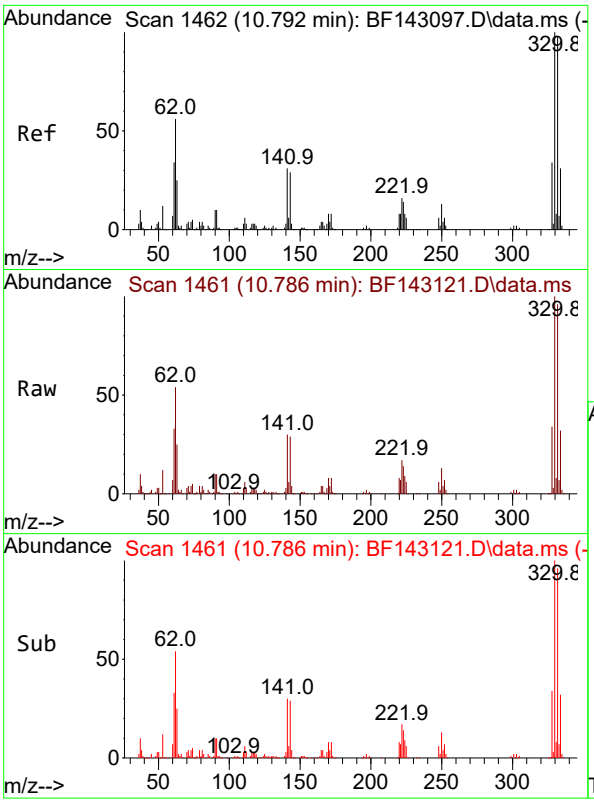


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.998 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:164 Resp: 265739

Ion	Ratio	Lower	Upper
164	100		
162	99.4	79.0	118.6
160	44.8	35.8	53.6



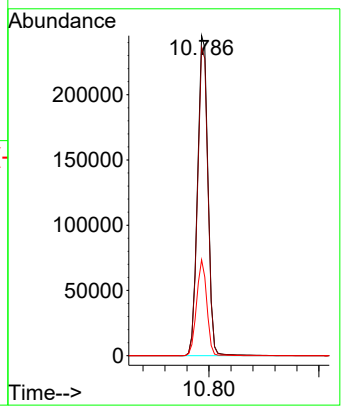


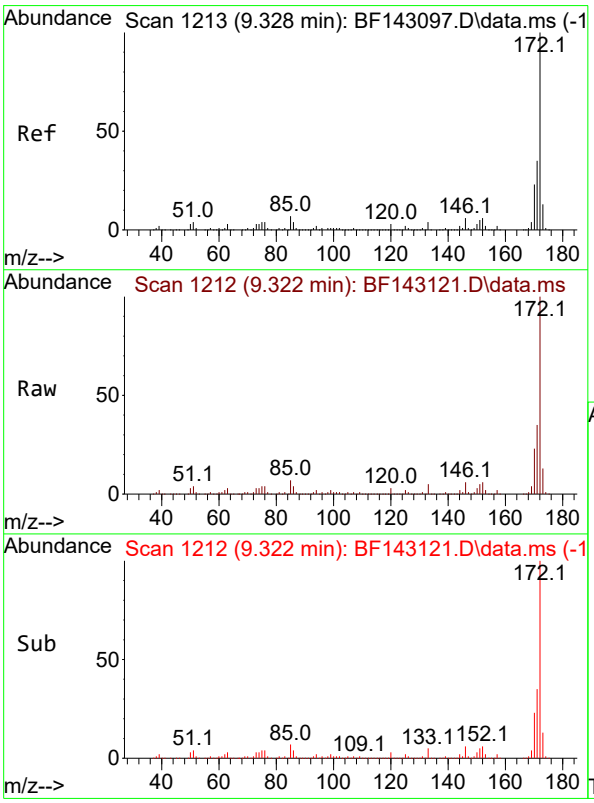
#42
2,4,6-Tribromophenol
Concen: 135.952 ng
RT: 10.786 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion:330 Resp: 322134

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.9	116.9
141	29.4	25.9	38.9

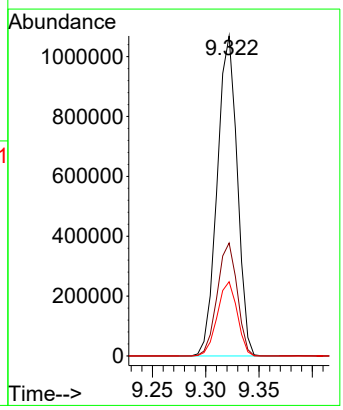


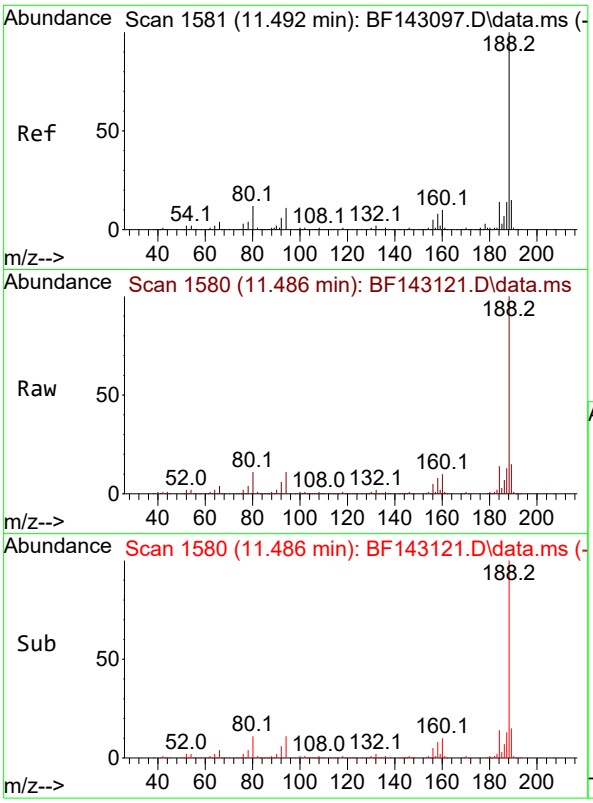


#45
2-Fluorobiphenyl
Concen: 69.762 ng
RT: 9.322 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:172 Resp: 1394625

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.2	18.6	28.0



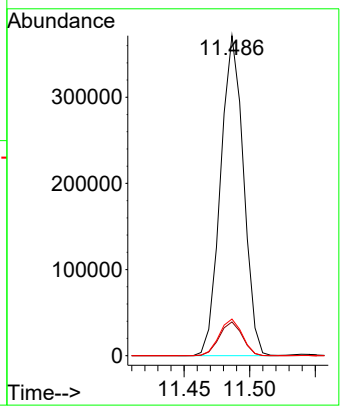


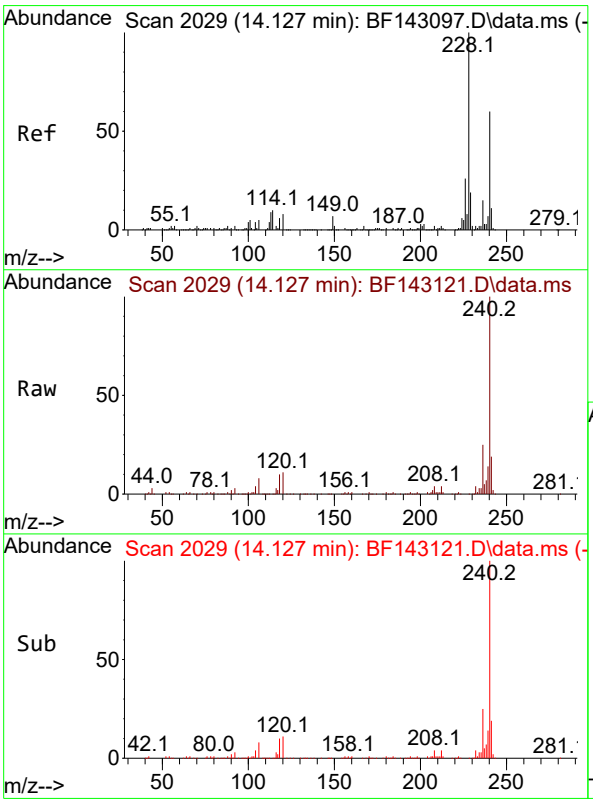
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion:188 Resp: 451811

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.6	13.0
80	11.5	9.3	13.9

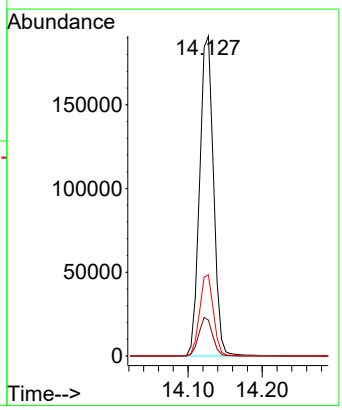


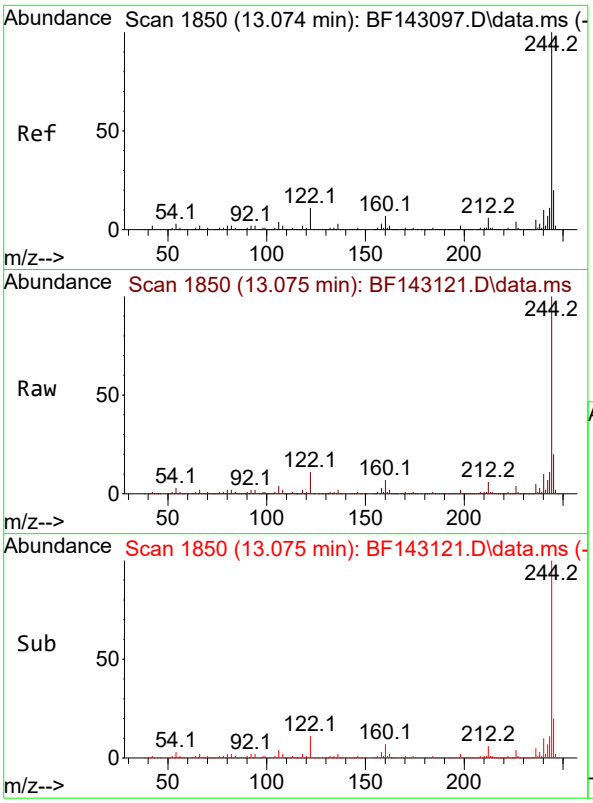


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:240 Resp: 249471

Ion	Ratio	Lower	Upper
240	100		
120	11.2	10.0	15.0
236	25.3	20.0	30.0



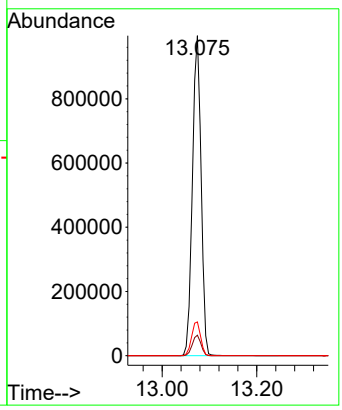


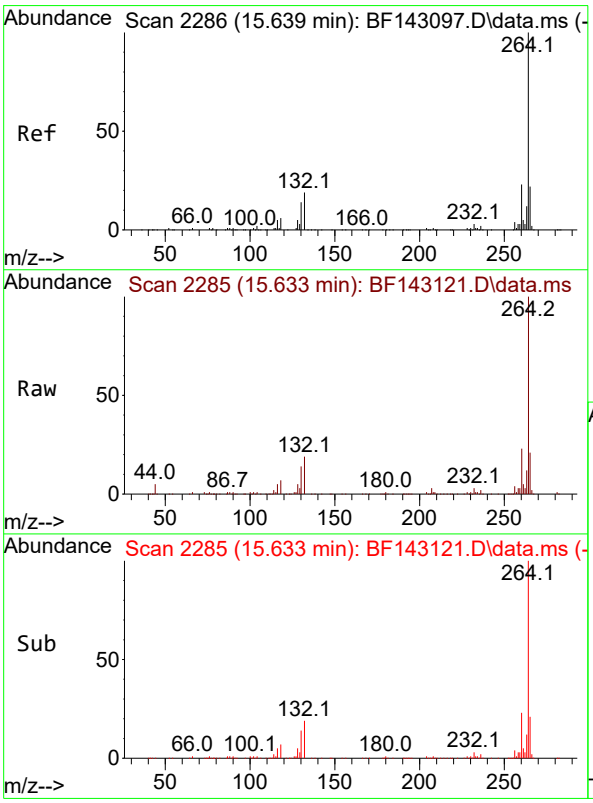
#79
Terphenyl-d14
Concen: 74.356 ng
RT: 13.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711

Tgt Ion:244 Resp: 1268948

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	10.5	8.8	13.2

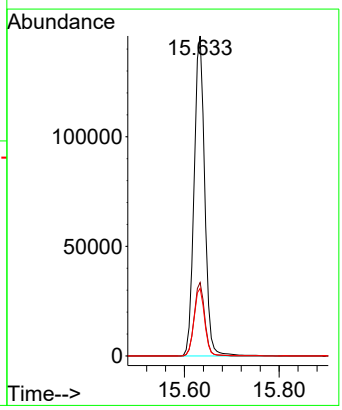




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143121.D
Acq: 16 Jul 2025 21:39

Tgt Ion:264 Resp: 227071

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.5	27.7
265	21.1	17.5	26.3



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 15 17:53:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143093.D 5 =BF143094.D 10 =BF143095.D 20 =BF143096.D 40 =BF143097.D 50 =BF143098.D 60 =BF143099.D 80 =BF143100.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.637	0.635	0.640	0.627	0.661	0.626	0.586	0.630	3.58
3)		Pyridine		1.606	1.541	1.616	1.594	1.681	1.612	1.519	1.596	3.33
4)		n-Nitrosodimet...			0.788	0.825	0.816	0.879	0.840	0.812	0.827	3.70
5)	S	2-Fluorophenol		1.334	1.272	1.315	1.255	1.305	1.232	1.148	1.266	4.98
6)		Aniline		2.330	2.254	2.280	2.205	2.351	2.196	2.069	2.241	4.26
7)	S	Phenol-d6		1.685	1.616	1.640	1.565	1.643	1.547	1.441	1.591	5.11
8)		2-Chlorophenol		1.239	1.208	1.321	1.273	1.363	1.286	1.212	1.272	4.51
9)		Benzaldehyde			1.196	1.149	1.451	1.452	1.163	0.864	1.212	18.15
10)	C	Phenol		1.766	1.742	1.782	1.709	1.780	1.694	1.584	1.723	4.07
11)		bis(2-Chloroet...		1.425	1.363	1.366	1.309	1.371	1.291	1.209	1.334	5.26
12)		1,3-Dichlorobe...		1.547	1.482	1.470	1.414	1.471	1.388	1.286	1.437	5.83
13)	C	1,4-Dichlorobe...		1.570	1.473	1.504	1.412	1.482	1.386	1.292	1.446	6.27
14)		1,2-Dichlorobe...		1.468	1.409	1.430	1.364	1.417	1.321	1.241	1.379	5.57
15)		Benzyl Alcohol			1.126	1.204	1.167	1.255	1.189	1.132	1.179	4.09
16)		2,2'-oxybis(1-...		2.713	2.532	2.528	2.405	2.517	2.342	2.171	2.458	6.99
17)		2-Methylphenol		1.132	1.081	1.124	1.083	1.150	1.077	1.035	1.098	3.63
18)		Hexachloroethane		0.465	0.440	0.486	0.472	0.500	0.476	0.455	0.471	4.22
19)	P	n-Nitroso-di-n...	0.956	1.029	0.988	1.002	0.964	1.017	0.945	0.897	0.975	4.44
20)		3+4-Methylphenols			1.399	1.419	1.356	1.421	1.293	1.189	1.346	6.74
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.538	0.516	0.500	0.469	0.482	0.451	0.419	0.482	8.33
23)	S	Nitrobenzene-d5		0.283	0.319	0.363	0.372	0.399	0.390	0.370	0.357	11.59
24)		Nitrobenzene		0.282	0.317	0.357	0.356	0.385	0.366	0.347	0.344	9.94
25)		Isophorone		0.705	0.688	0.697	0.678	0.718	0.687	0.651	0.689	3.11
26)	C	2-Nitrophenol		0.063	0.075	0.106	0.120	0.141	0.146	0.147	0.114	29.95
27)		2,4-Dimethylph...		0.325	0.322	0.326	0.320	0.332	0.315	0.299	0.320	3.38
28)		bis(2-Chloroet...		0.444	0.434	0.435	0.409	0.424	0.404	0.375	0.418	5.63
29)	C	2,4-Dichloroph...		0.237	0.254	0.267	0.267	0.280	0.271	0.254	0.262	5.43
30)		1,2,4-Trichlor...		0.316	0.305	0.307	0.295	0.303	0.287	0.267	0.297	5.40
31)		Naphthalene		1.099	1.048	1.037	0.966	0.987	0.937	0.878	0.993	7.52
32)		Benzoic acid			0.080	0.111	0.144	0.159	0.171	0.172	0.139	26.27
33)		4-Chloroaniline		0.420	0.420	0.414	0.398	0.409	0.381	0.353	0.399	6.12
34)	C	Hexachlorobuta...		0.185	0.176	0.183	0.177	0.182	0.176	0.163	0.178	4.10
35)		Caprolactam			0.073	0.078	0.083	0.087	0.086	0.083	0.082	6.36
36)	C	4-Chloro-3-met...		0.285	0.290	0.296	0.293	0.307	0.293	0.277	0.291	3.26
37)		2-Methylnaphth...		0.644	0.626	0.615	0.580	0.597	0.562	0.524	0.592	6.91
38)		1-Methylnaphth...		0.678	0.660	0.631	0.603	0.615	0.578	0.537	0.615	7.81

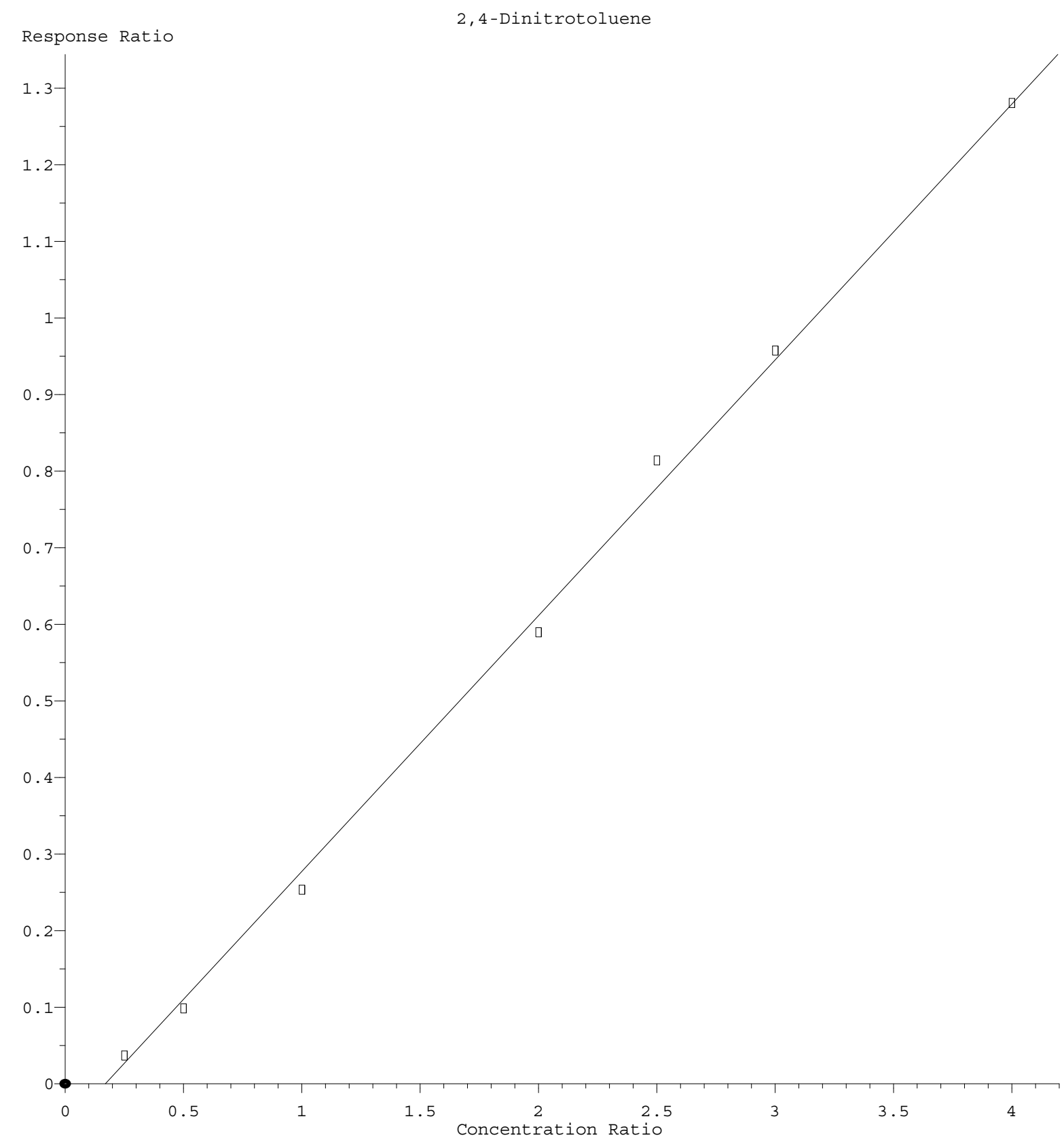
Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.616	0.600	0.602	0.578	0.601	0.561	0.522	0.583	5.56
41)	P	Hexachlorocycl...		0.254	0.306	0.323	0.356	0.356	0.344	0.323	12.16
42)	S	2,4,6-Tribromo...	0.136	0.157	0.181	0.188	0.204	0.194	0.188	0.178	13.23
43)	C	2,4,6-Trichlor...	0.300	0.312	0.377	0.376	0.400	0.393	0.377	0.362	10.94
44)		2,4,5-Trichlor...	0.336	0.367	0.390	0.393	0.418	0.377	0.378	0.380	6.62
45)	S	2-Fluorobiphenyl	1.777	1.645	1.602	1.456	1.460	1.355	1.238	1.505	12.18
46)		1,1'-Biphenyl	1.750	1.687	1.671	1.567	1.610	1.496	1.384	1.595	7.84
47)		2-Chloronaphth...	1.271	1.203	1.206	1.159	1.195	1.120	1.048	1.172	6.10
48)		2-Nitroaniline	0.180	0.224	0.296	0.328	0.372	0.363	0.355	0.303	24.51
49)		Acenaphthylene	2.060	2.011	2.034	1.959	1.989	1.867	1.746	1.952	5.65
50)		Dimethylphthalate	1.310	1.259	1.292	1.257	1.302	1.219	1.169	1.258	4.01
51)		2,6-Dinitrotol...	0.133	0.176	0.222	0.234	0.262	0.262	0.247	0.219	22.07
52)	C	Acenaphthene	1.273	1.204	1.173	1.127	1.168	1.088	1.032	1.152	6.85
53)		3-Nitroaniline	0.180	0.227	0.283	0.288	0.318	0.313	0.295	0.272	18.56
54)	P	2,4-Dinitrophenol		0.038	0.056	0.069	0.086	0.090	0.097	0.073	31.18
55)		Dibenzofuran	1.895	1.795	1.785	1.697	1.729	1.604	1.516	1.717	7.37
56)	P	4-Nitrophenol		0.164	0.201	0.224	0.239	0.237	0.232	0.216	13.37
57)		2,4-Dinitrotol...	0.147	0.197	0.253	0.295	0.326	0.319	0.320	0.265	26.25
58)		Fluorene	1.478	1.387	1.328	1.246	1.284	1.186	1.105	1.288	9.67
59)		2,3,4,6-Tetrac...	0.253	0.274	0.302	0.312	0.339	0.323	0.309	0.302	9.71
60)		Diethylphthalate	1.221	1.217	1.257	1.225	1.260	1.187	1.130	1.214	3.68
61)		4-Chlorophenyl...	0.666	0.642	0.631	0.614	0.625	0.586	0.555	0.617	5.92
62)		4-Nitroaniline	0.169	0.208	0.237	0.249	0.270	0.263	0.259	0.236	15.25
63)		Azobenzene	1.425	1.399	1.375	1.328	1.381	1.282	1.208	1.343	5.65
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.035	0.053	0.064	0.079	0.084	0.086	0.067	30.46
66)	c	n-Nitrosodiphe...	0.735	0.709	0.736	0.682	0.717	0.685	0.654	0.703	4.30
67)		4-Bromophenyl-...	0.231	0.219	0.234	0.222	0.239	0.228	0.219	0.227	3.38
68)		Hexachlorobenzene	0.249	0.237	0.247	0.235	0.250	0.239	0.231	0.241	3.12
69)		Atrazine	0.158	0.171	0.184	0.181	0.195	0.185	0.184	0.180	6.72
70)	C	Pentachlorophenol		0.098	0.125	0.132	0.149	0.145	0.145	0.132	14.47
71)		Phenanthrene	1.190	1.136	1.111	1.042	1.089	1.021	0.968	1.079	6.95
72)		Anthracene	1.158	1.126	1.126	1.057	1.106	1.042	0.983	1.085	5.62
73)		Carbazole	1.038	1.026	1.008	0.938	0.998	0.927	0.873	0.972	6.27
74)		Di-n-butylphth...	0.746	0.846	0.913	0.921	0.983	0.942	0.897	0.893	8.62
75)	C	Fluoranthene	1.044	1.053	1.009	0.960	0.998	0.938	0.869	0.981	6.59
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.664	0.786	0.834	0.674	0.616	0.514	0.681	17.02
78)		Pyrene	2.018	1.956	1.955	1.842	1.918	1.716	1.585	1.856	8.33
79)	S	Terphenyl-d14	1.563	1.471	1.437	1.343	1.385	1.246	1.133	1.368	10.53
80)		Butylbenzylpht...	0.179	0.233	0.310	0.343	0.385	0.395	0.384	0.318	26.22
81)		Benzo(a)anthra...	1.296	1.304	1.406	1.347	1.403	1.326	1.247	1.333	4.34
82)		3,3'-Dichlorob...		0.314	0.406	0.385	0.428	0.411	0.377	0.387	10.35
83)		Chrysene	1.286	1.234	1.211	1.201	1.270	1.228	1.162	1.227	3.41
84)		Bis(2-ethylhex...	0.273	0.343	0.479	0.515	0.578	0.591	0.583	0.480	26.25
85)	c	Di-n-octyl pht...		0.474	0.811	0.922	1.073	1.115	1.167	0.927	27.83

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF071525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.345	1.411	1.526	1.521	1.620	1.519	1.470	1.488	5.98
88)		Benzo(b)fluora...	1.063	1.191	1.171	1.082	1.297	1.185	1.087	1.154	7.17
89)		Benzo(k)fluora...	1.175	1.066	1.111	1.148	1.088	1.060	1.056	1.101	4.23
90)	C	Benzo(a)pyrene	0.989	1.019	1.108	1.124	1.196	1.124	1.078	1.091	6.41
91)		Dibenzo(a,h)an...	1.114	1.162	1.266	1.240	1.330	1.222	1.178	1.216	5.90
92)		Benzo(g,h,i)pe...	1.148	1.187	1.263	1.258	1.349	1.260	1.214	1.240	5.20

(#) = Out of Range



Response = 3.341e-001 * Amt - 5.679e-002
Coef of Det (r^2) = 0.997543 Curve Fit: wlr(1/a)
Method: Q2502_TCLP BNA\svoasrv\HPCHEM1\BNA F\Methods\8270-BF071525.M
Calibration Table Last Updated: Tue Jul 15 17:53:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143093.D
Acq On : 15 Jul 2025 13:04
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 15 17:36:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

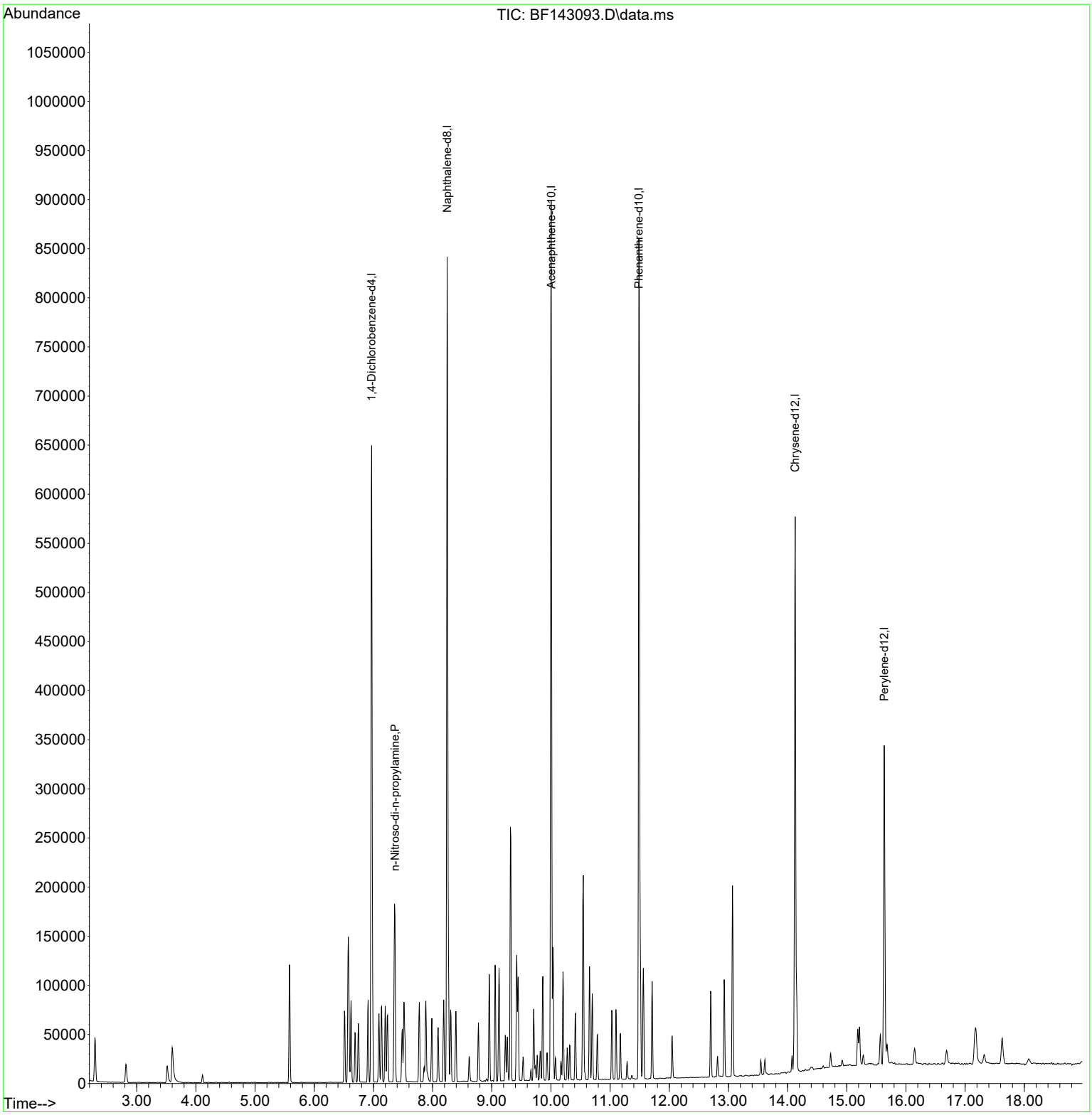
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	130499	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	494118	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	253763	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	424376	20.000	ng	0.00
76) Chrysene-d12	14.127	240	244536	20.000	ng	0.00
86) Perylene-d12	15.633	264	187520	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...	7.363	70	15601	2.453	ng	95

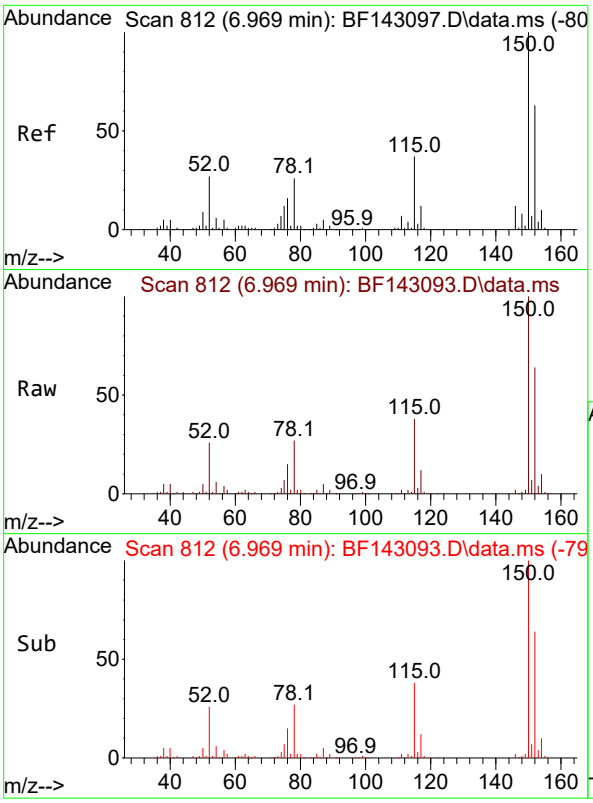
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143093.D
Acq On : 15 Jul 2025 13:04
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 15 17:36:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration



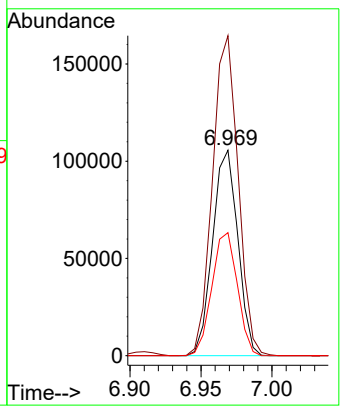


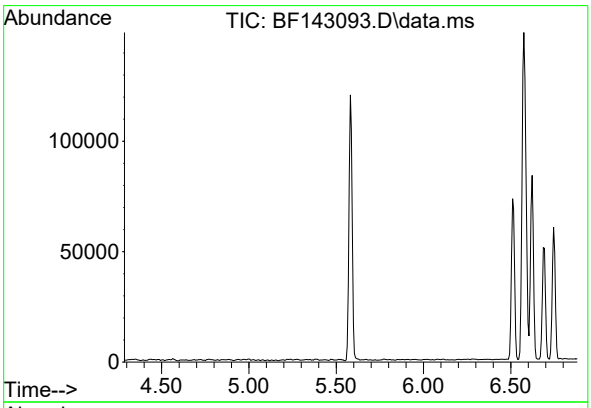
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 130499

Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.5	189.7
115	59.9	47.0	70.6



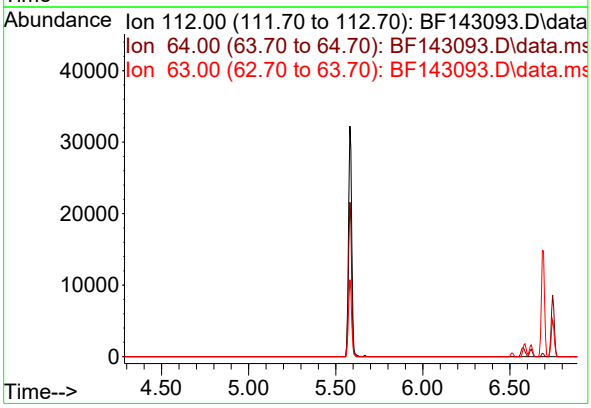


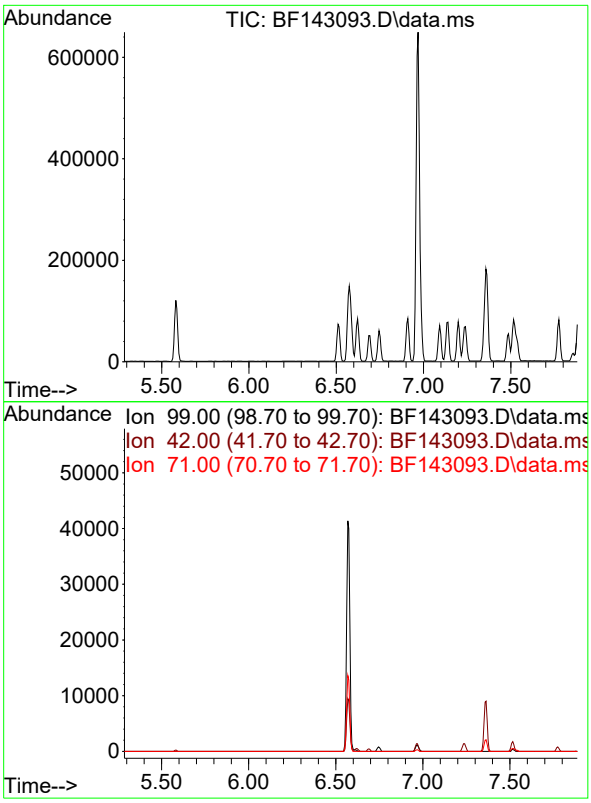
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.59 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	68.3
63	34.1





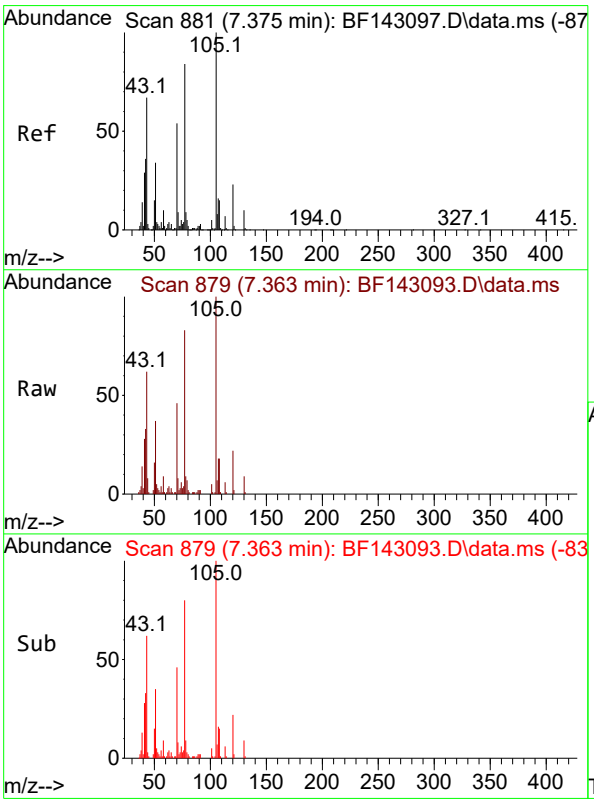
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.59 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

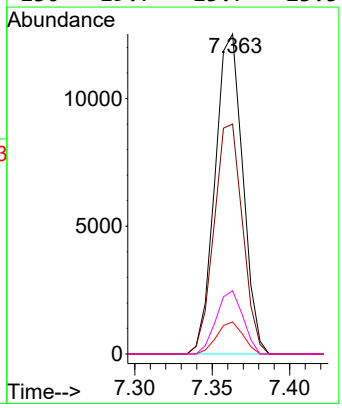
Sig	Exp Ratio
99	100
42	21.5
71	34.2

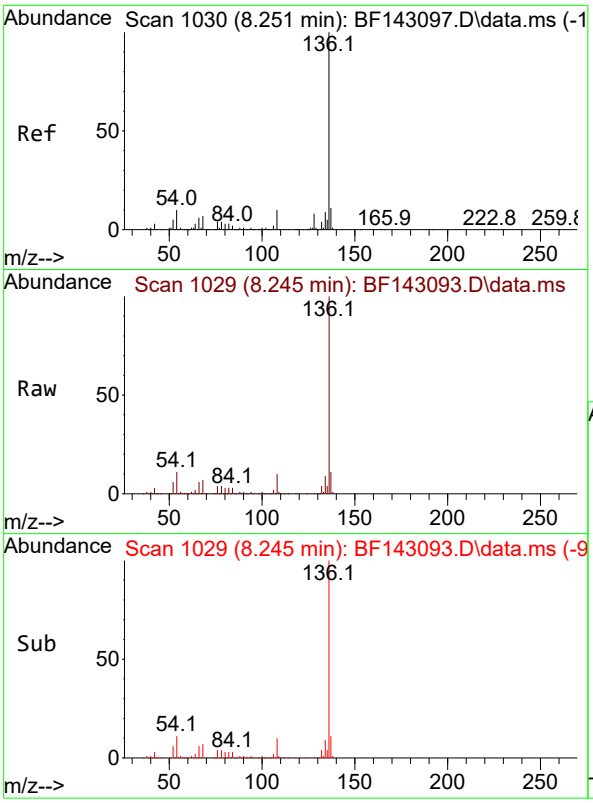


#19
n-Nitroso-di-n-propylamine
Concen: 2.453 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.012 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion: 70 Resp: 15601

Ion	Ratio	Lower	Upper
70	100		
42	71.9	53.2	79.8
101	10.0	7.5	11.3
130	19.7	15.7	23.5



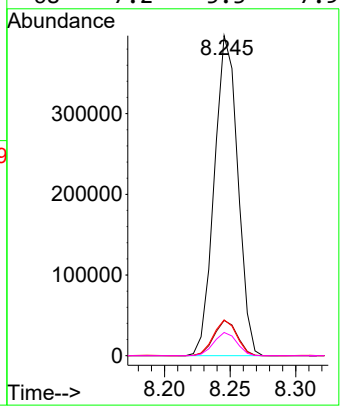


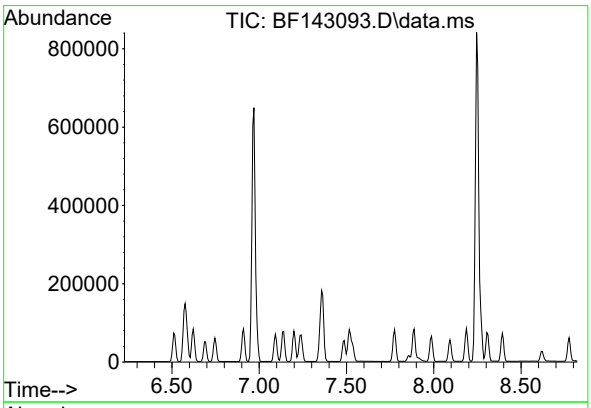
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 494118

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	11.2	8.3	12.5
68	7.2	5.3	7.9



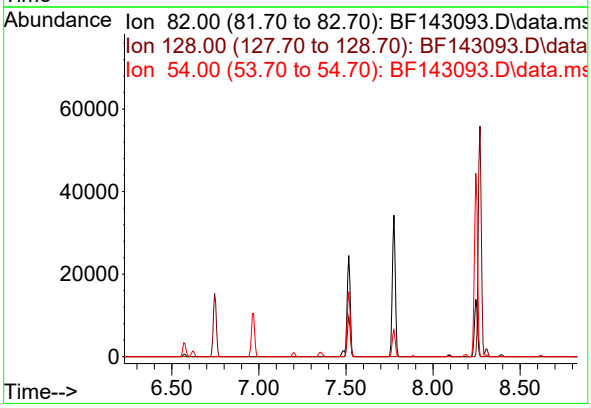


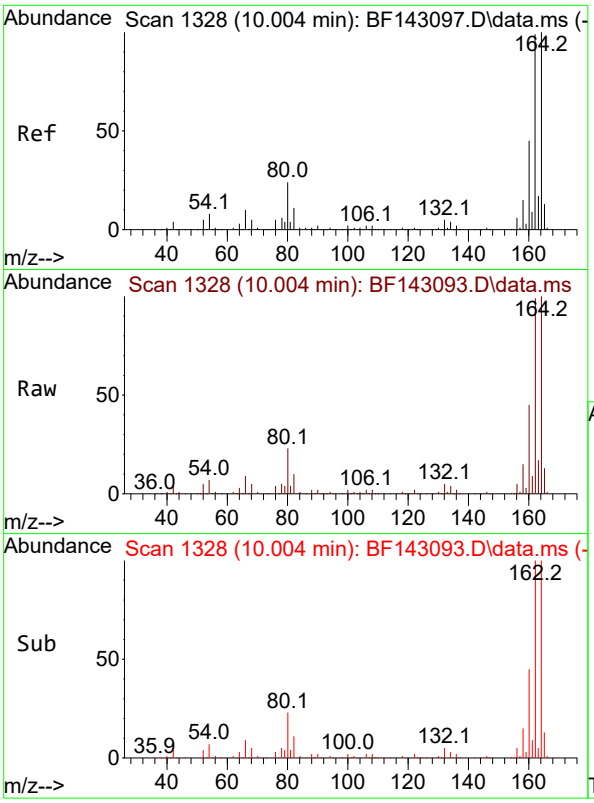
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.53 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.6
54	59.3



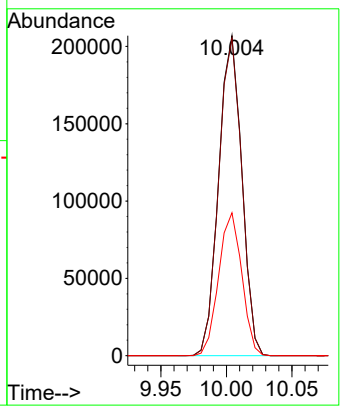


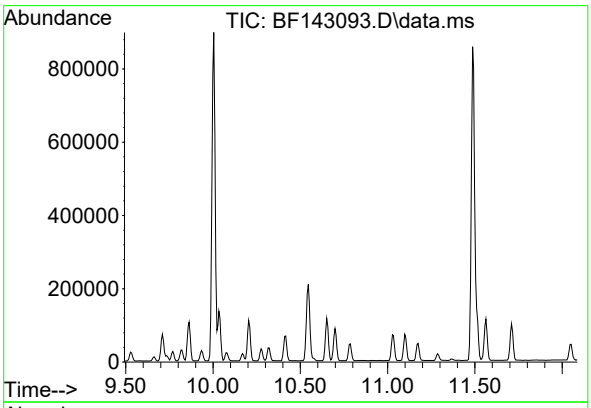
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 253763

Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.0	118.6
160	44.7	35.8	53.6



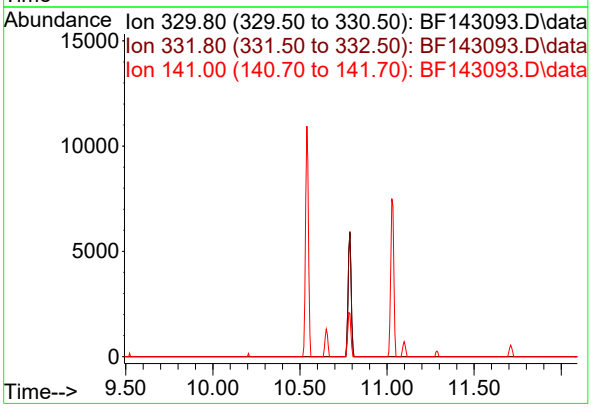


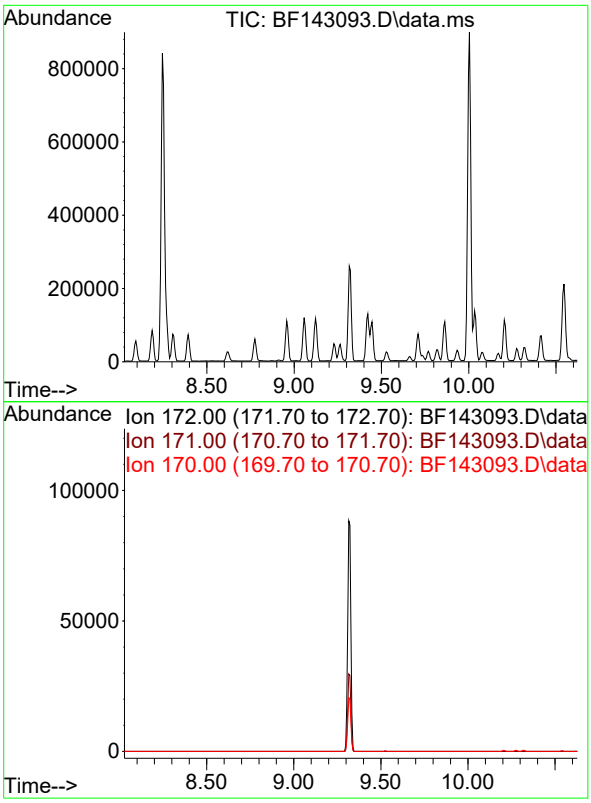
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.79 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.4
141	32.4





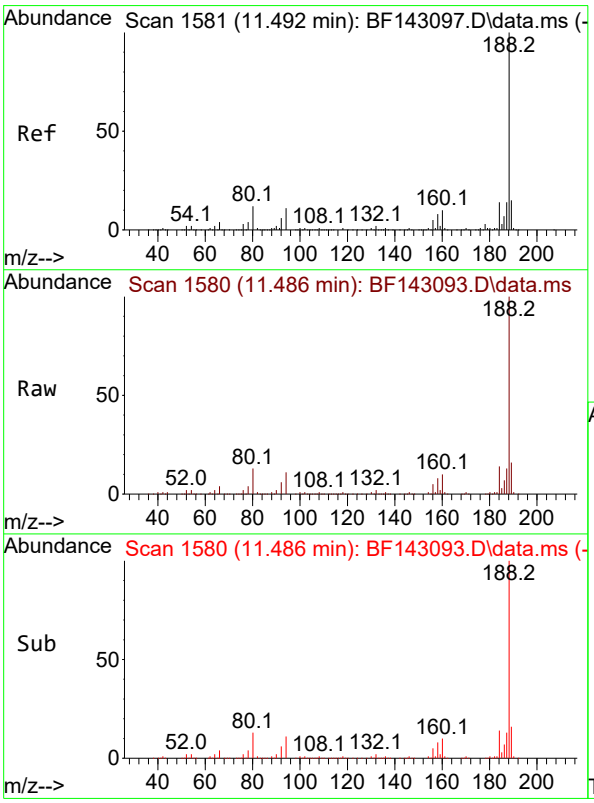
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.33 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

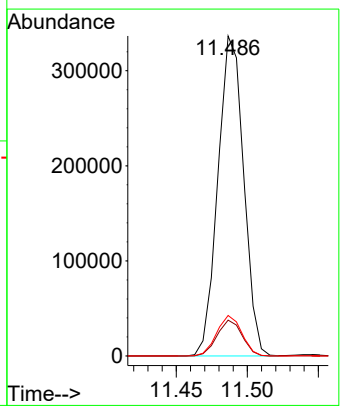
Sig	Exp Ratio
172	100
171	35.3
170	23.3

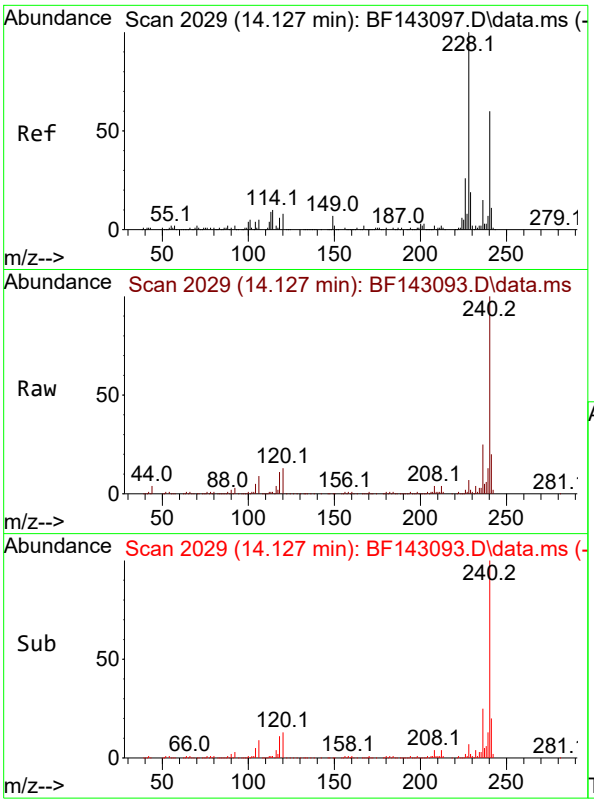


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion:188 Resp: 424376

Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.6	13.0
80	12.7	9.3	13.9



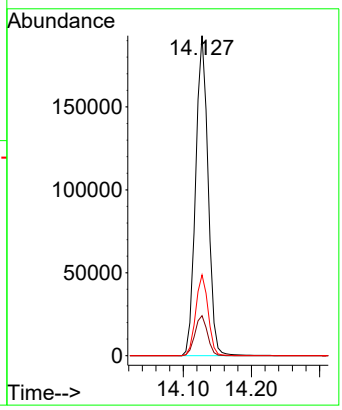


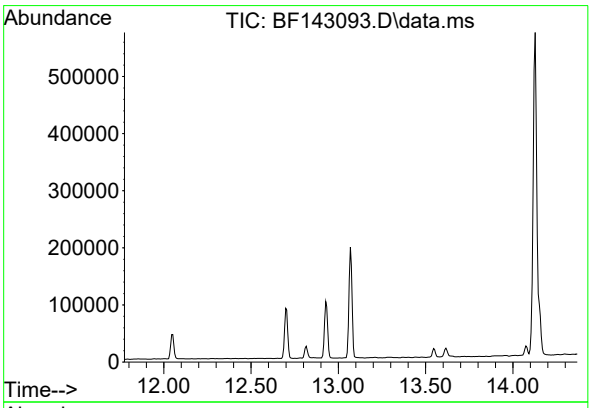
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 244536

Ion	Ratio	Lower	Upper
240	100		
120	12.5	10.0	15.0
236	25.3	20.0	30.0



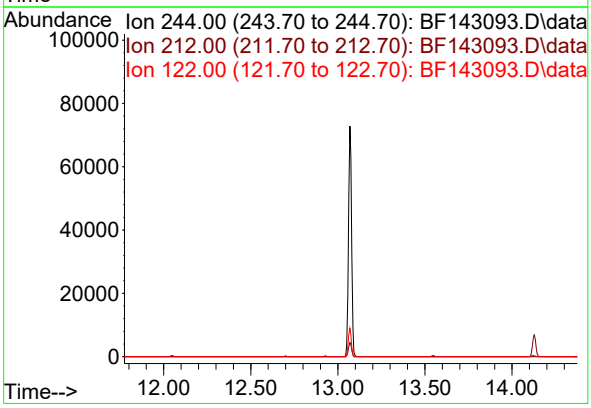


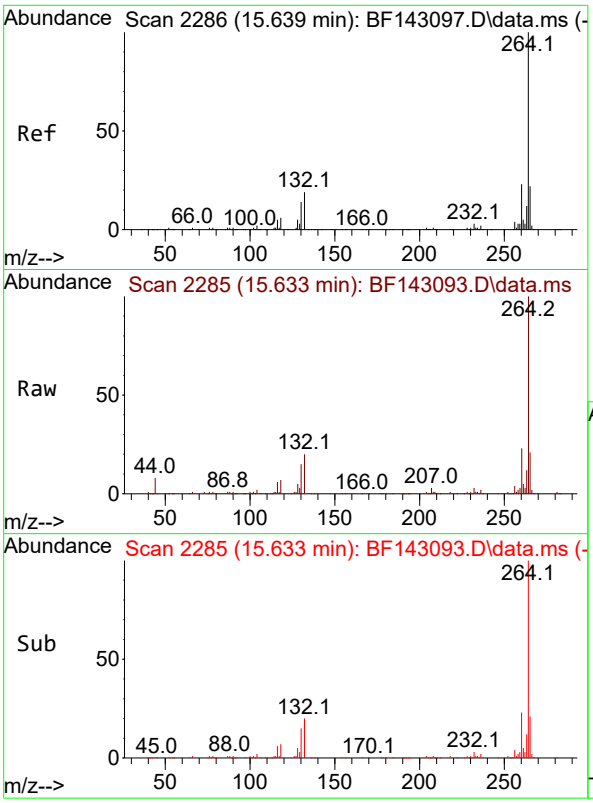
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.07 min

Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.5
122	11.0



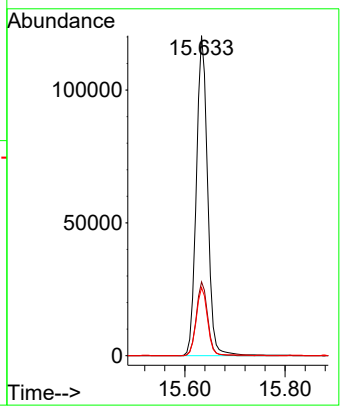


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143093.D
Acq: 15 Jul 2025 13:04

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 187520

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.5	27.7
265	21.3	17.5	26.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143094.D
Acq On : 15 Jul 2025 13:35
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 15 17:37:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	119528	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	456442	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	230973	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	382578	20.000	ng	0.00
76) Chrysene-d12	14.127	240	212909	20.000	ng	0.00
86) Perylene-d12	15.633	264	174154	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.581	112	79738	10.540	ng	0.00
7) Phenol-d6	6.575	99	100706	10.590	ng	-0.01
23) Nitrobenzene-d5	7.516	82	64500m	7.927	ng	-0.01
42) 2,4,6-Tribromophenol	10.786	330	15703	7.625	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	205273	11.814	ng	0.00
79) Terphenyl-d14	13.069	244	166389	11.424	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.810	88	19027	5.052	ng	95
3) Pyridine	3.587	79	48004	5.034	ng	97
6) Aniline	6.622	93	69613	5.198	ng	99
8) 2-Chlorophenol	6.745	128	37026	4.871	ng	98
10) Phenol	6.587	94	52784	5.127	ng	98
11) bis(2-Chloroethyl)ether	6.692	93	42574	5.342	ng	98
12) 1,3-Dichlorobenzene	6.910	146	46218	5.382	ng	98
13) 1,4-Dichlorobenzene	6.987	146	46918	5.431	ng	99
14) 1,2-Dichlorobenzene	7.140	146	43854	5.323	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.240	45	81065	5.518	ng	99
17) 2-Methylphenol	7.198	107	33834	5.158	ng	98
18) Hexachloroethane	7.487	117	13889	4.938	ng	99
19) n-Nitroso-di-n-propyla...	7.363	70	30747	5.277	ng	99
22) Acetophenone	7.363	105	61393	5.580	ng	95
24) Nitrobenzene	7.534	77	32206	4.100	ng	99
25) Isophorone	7.775	82	80494	5.118	ng	99
26) 2-Nitrophenol	7.857	139	7204	6.037	ng	96
27) 2,4-Dimethylphenol	7.887	122	37098	5.082	ng	98
28) bis(2-Chloroethoxy)met...	7.987	93	50637	5.310	ng	98
29) 2,4-Dichlorophenol	8.092	162	27047	4.529	ng	96
30) 1,2,4-Trichlorobenzene	8.187	180	36023	5.315	ng	99
31) Naphthalene	8.269	128	125461	5.535	ng	100
33) 4-Chloroaniline	8.310	127	47947	5.260	ng	98
34) Hexachlorobutadiene	8.392	225	21105	5.207	ng	98
36) 4-Chloro-3-methylphenol	8.775	107	32542	4.892	ng	96
37) 2-Methylnaphthalene	8.957	142	73511	5.436	ng	99
38) 1-Methylnaphthalene	9.057	142	77390	5.518	ng	99
40) 1,2,4,5-Tetrachloroben...	9.128	216	35579	5.286	ng	97
43) 2,4,6-Trichlorophenol	9.228	196	17295	4.135	ng	97
44) 2,4,5-Trichlorophenol	9.263	196	19416	4.427	ng	99
46) 1,1'-Biphenyl	9.422	154	101056	5.486	ng	99
47) 2-Chloronaphthalene	9.445	162	73385	5.423	ng	99
48) 2-Nitroaniline	9.528	65	10398	5.579	ng	91
49) Acenaphthylene	9.863	152	118965	5.276	ng	99
50) Dimethylphthalate	9.710	163	75659	5.207	ng	99
51) 2,6-Dinitrotoluene	9.769	165	7659	5.308	ng	93

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143094.D
Acq On : 15 Jul 2025 13:35
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:37:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Acenaphthene	10.033	154	73531	5.526	ng		99
53) 3-Nitroaniline	9.933	138	10382	3.307	ng	#	90
55) Dibenzofuran	10.204	168	109432	5.518	ng		99
57) 2,4-Dinitrotoluene	10.169	165	8515	5.606	ng		87
58) Fluorene	10.551	166	85318	5.738	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.322	232	14610	4.192	ng	#	98
60) Diethylphthalate	10.416	149	70533	5.031	ng		98
61) 4-Chlorophenyl-phenyle...	10.539	204	38452	5.395	ng		96
62) 4-Nitroaniline	10.539	138	9779	3.581	ng		83
63) Azobenzene	10.698	77	82291	5.308	ng		99
66) n-Nitrosodiphenylamine	10.651	169	70293	5.231	ng		99
67) 4-Bromophenyl-phenylether	11.033	248	22127	5.086	ng		95
68) Hexachlorobenzene	11.098	284	23819	5.160	ng		97
69) Atrazine	11.175	200	15103	4.393	ng		99
71) Phenanthrene	11.510	178	113784	5.511	ng		99
72) Anthracene	11.563	178	110778	5.335	ng		100
73) Carbazole	11.710	167	99235	5.335	ng		100
74) Di-n-butylphthalate	12.051	149	71352	4.179	ng		99
75) Fluoranthene	12.704	202	99884	5.320	ng		100
78) Pyrene	12.927	202	107389	5.436	ng		99
80) Butylbenzylphthalate	13.545	149	9546	5.646	ng		92
81) Benzo(a)anthracene	14.116	228	68990	4.863	ng		99
83) Chrysene	14.151	228	68451	5.239	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	14537	5.667	ng		100
87) Indeno(1,2,3-cd)pyrene	17.162	276	58565	4.521	ng		98
88) Benzo(b)fluoranthene	15.186	252	46276	4.607	ng		98
89) Benzo(k)fluoranthene	15.215	252	51177	5.340	ng		99
90) Benzo(a)pyrene	15.568	252	43046	4.531	ng		97
91) Dibenzo(a,h)anthracene	17.186	278	48506	4.581	ng		97
92) Benzo(g,h,i)perylene	17.627	276	49989	4.631	ng		98

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

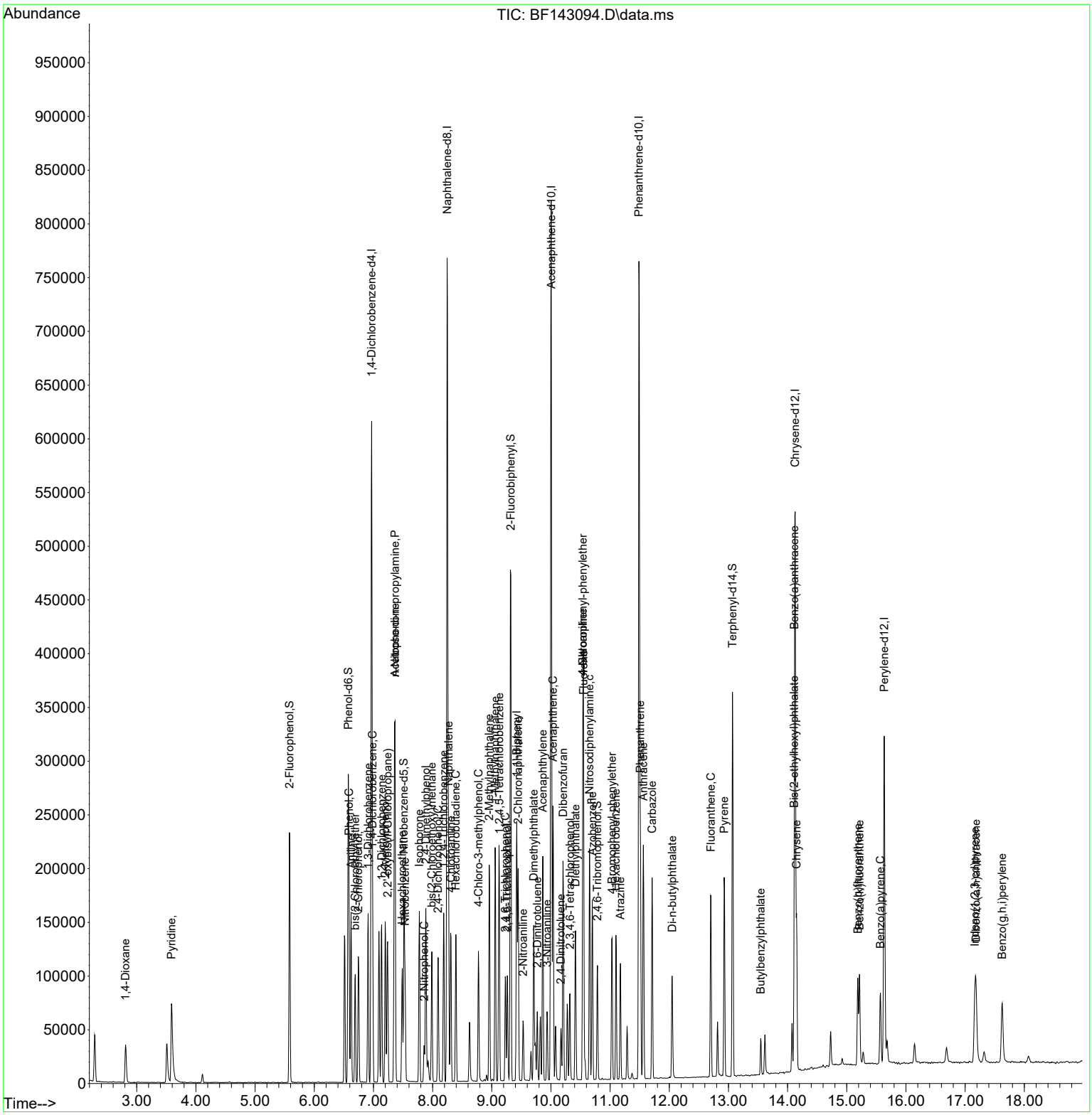
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143094.D
Acq On : 15 Jul 2025 13:35
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

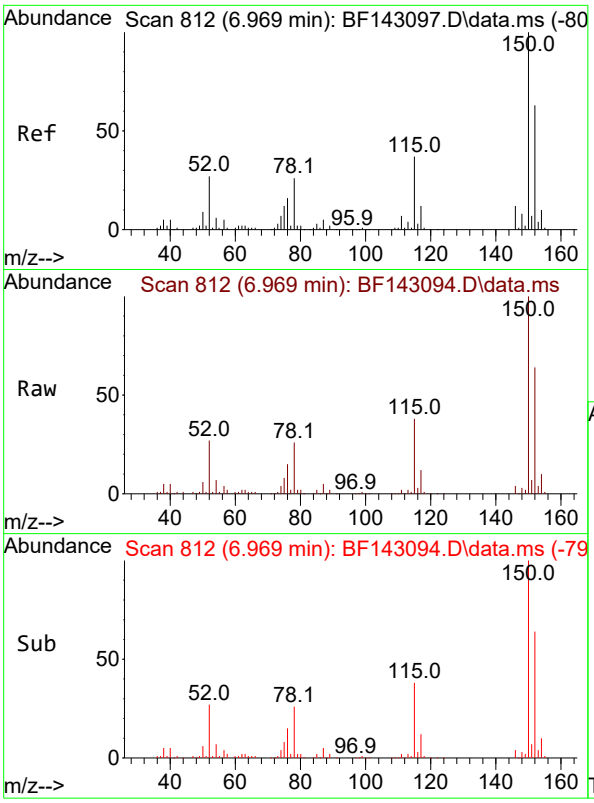
Quant Time: Jul 15 17:37:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

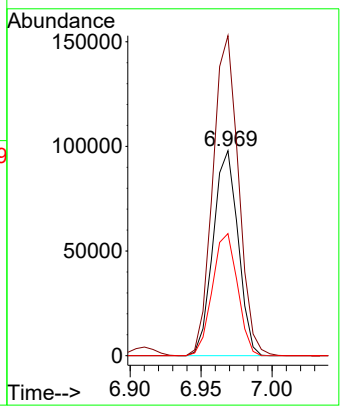




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:152 Resp: 11952

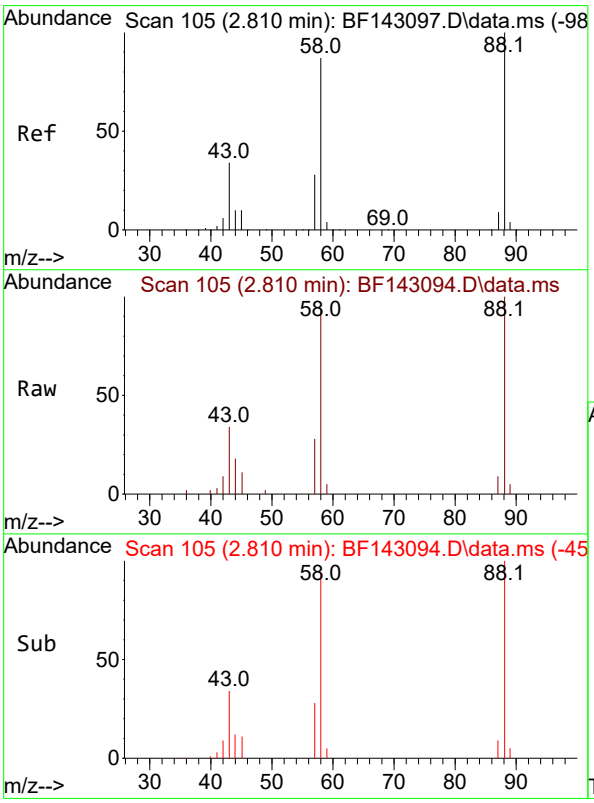
Ion	Ratio	Lower	Upper
152	100		
150	156.2	126.5	189.7
115	59.5	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

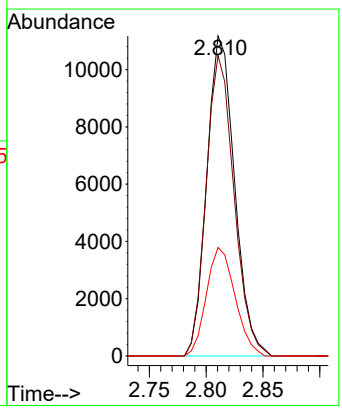
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

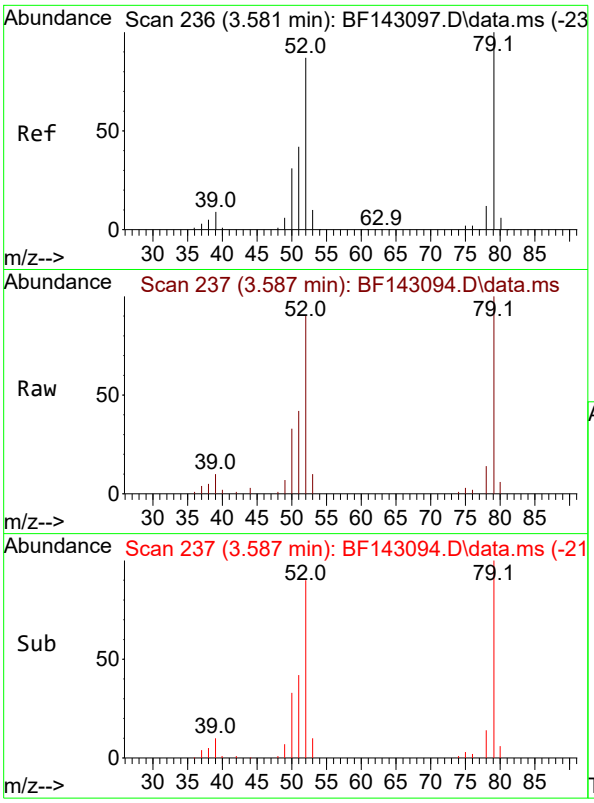


#2
1,4-Dioxane
Concen: 5.052 ng
RT: 2.810 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 88 Resp: 19027

Ion	Ratio	Lower	Upper
88	100		
58	94.1	70.5	105.7
43	34.9	27.3	40.9

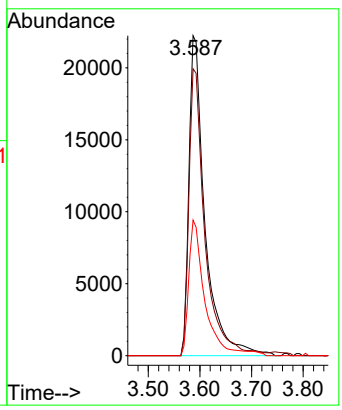




#3
Pyridine
Concen: 5.034 ng
RT: 3.587 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 79 Resp: 4800

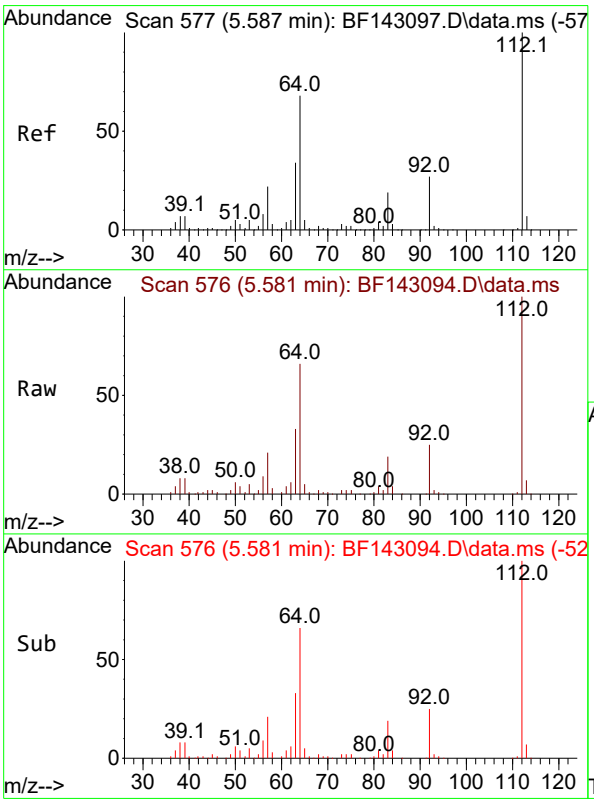
Ion	Ratio	Lower	Upper
79	100		
52	89.6	69.2	103.8
51	42.3	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

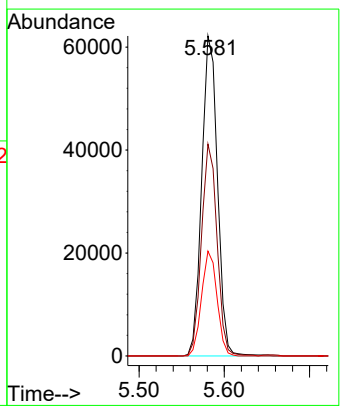
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

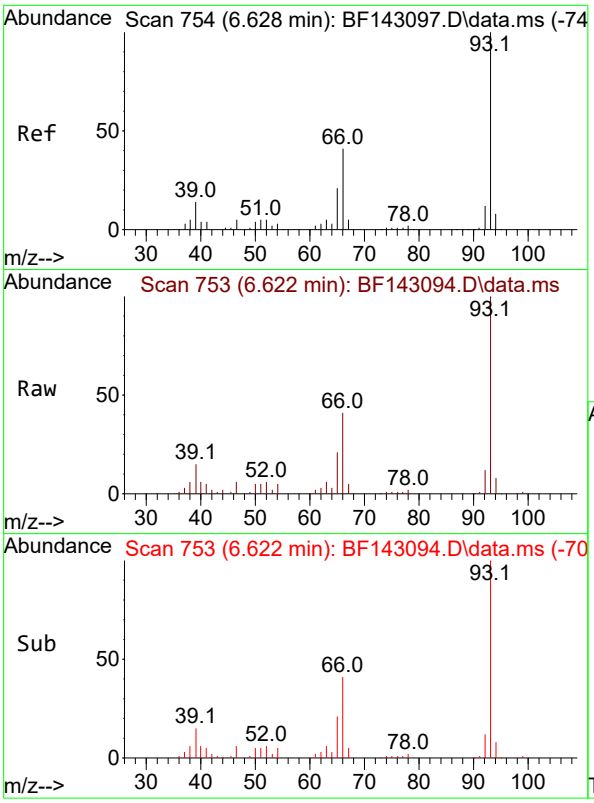


#5
2-Fluorophenol
Concen: 10.540 ng
RT: 5.581 min Scan# 576
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:112 Resp: 79738

Ion	Ratio	Lower	Upper
112	100		
64	66.2	54.6	82.0
63	32.8	27.3	40.9

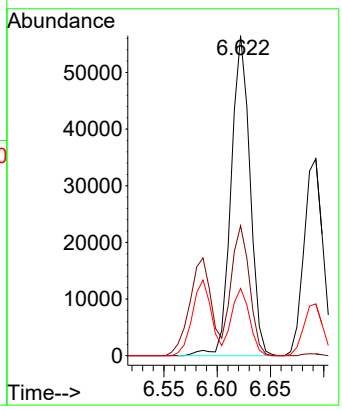




#6
Aniline
Concen: 5.198 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 93 Resp: 6961

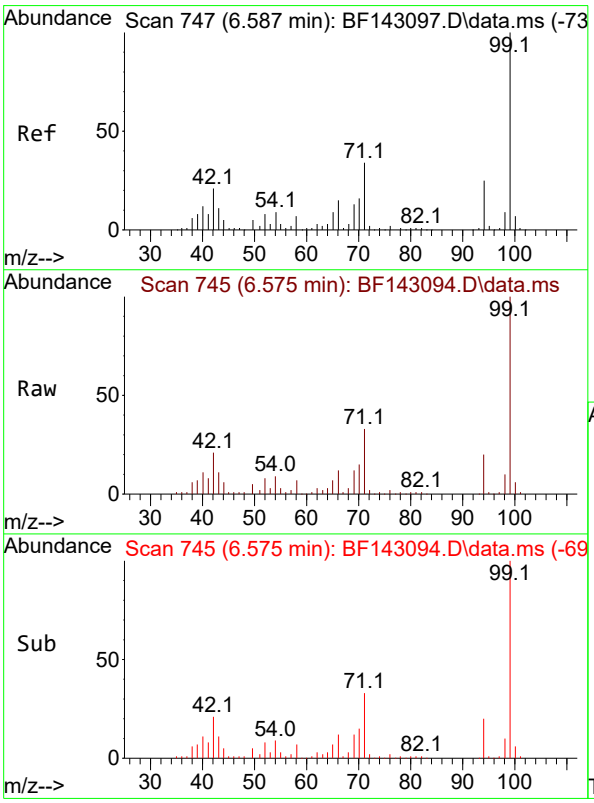
Ion	Ratio	Lower	Upper
93	100		
66	40.6	33.1	49.7
65	21.0	16.9	25.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

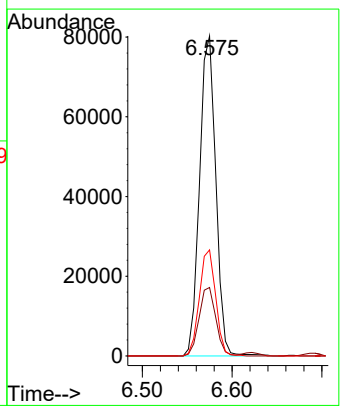
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

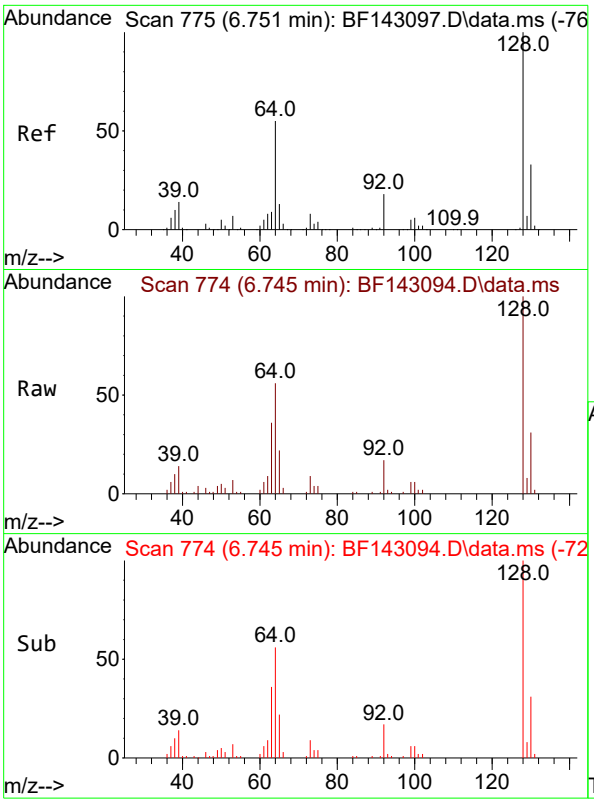


#7
Phenol-d6
Concen: 10.590 ng
RT: 6.575 min Scan# 745
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 99 Resp: 100706

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	33.2	27.4	41.0

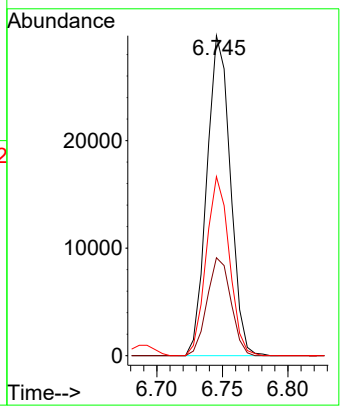




#8
2-Chlorophenol
Concen: 4.871 ng
RT: 6.745 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:128 Resp: 3702

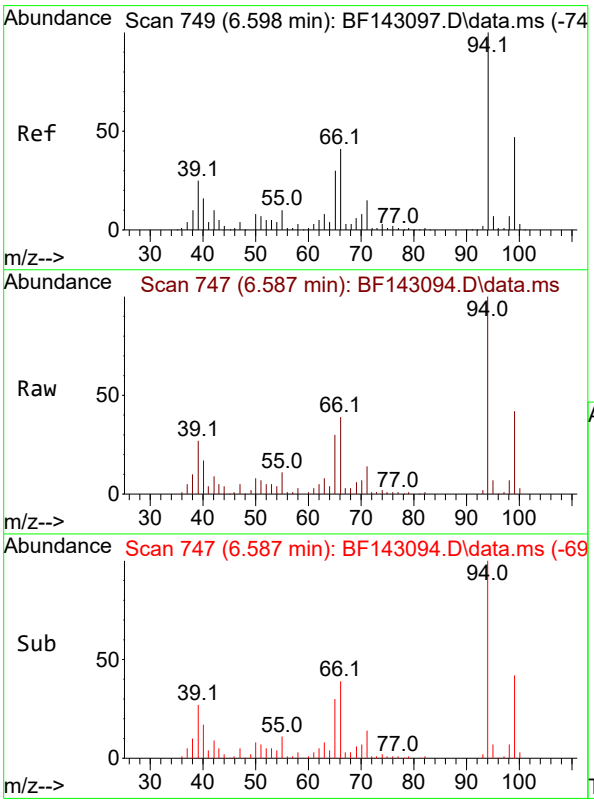
Ion	Ratio	Lower	Upper
128	100		
130	30.6	12.8	52.8
64	55.9	36.1	76.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

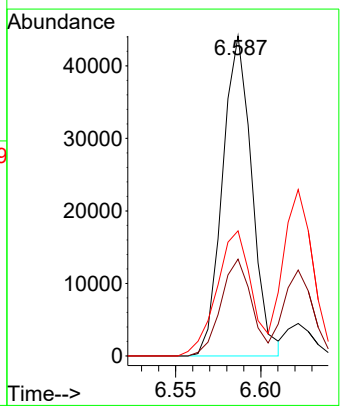
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

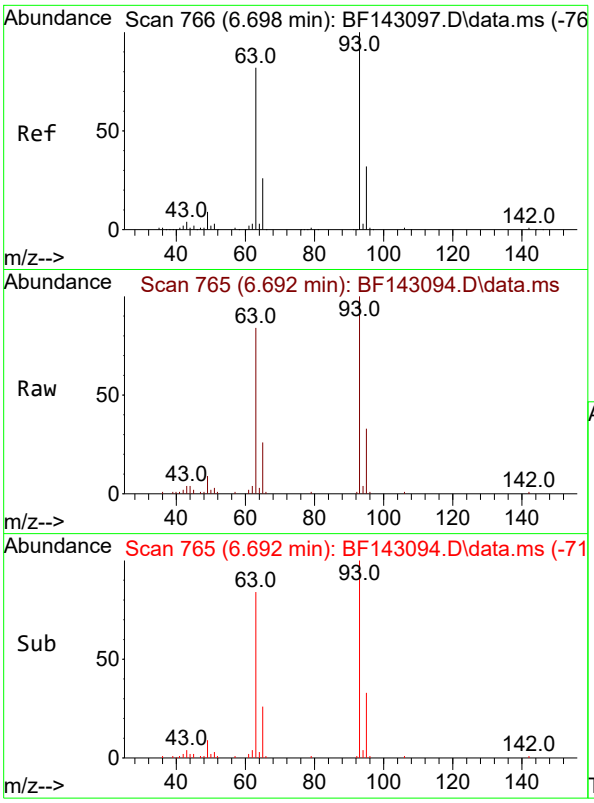


#10
Phenol
Concen: 5.127 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 94 Resp: 52784

Ion	Ratio	Lower	Upper
94	100		
65	30.3	9.8	49.8
66	39.1	20.5	60.5

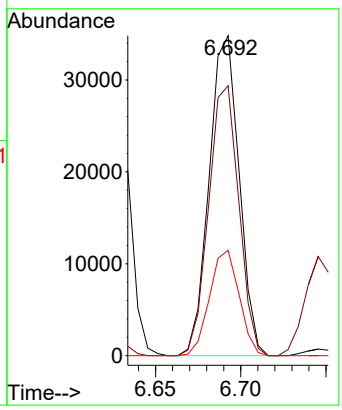




#11
bis(2-Chloroethyl)ether
Concen: 5.342 ng
RT: 6.692 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 93 Resp: 4257

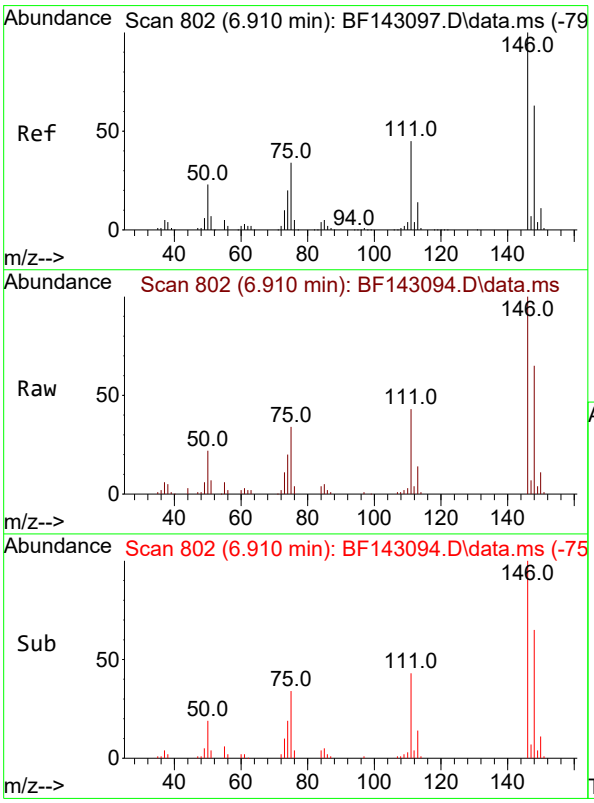
Ion	Ratio	Lower	Upper
93	100		
63	84.4	61.9	101.9
95	32.9	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

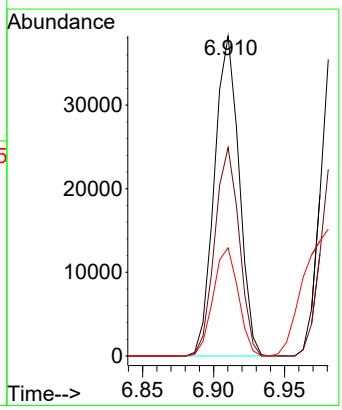
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

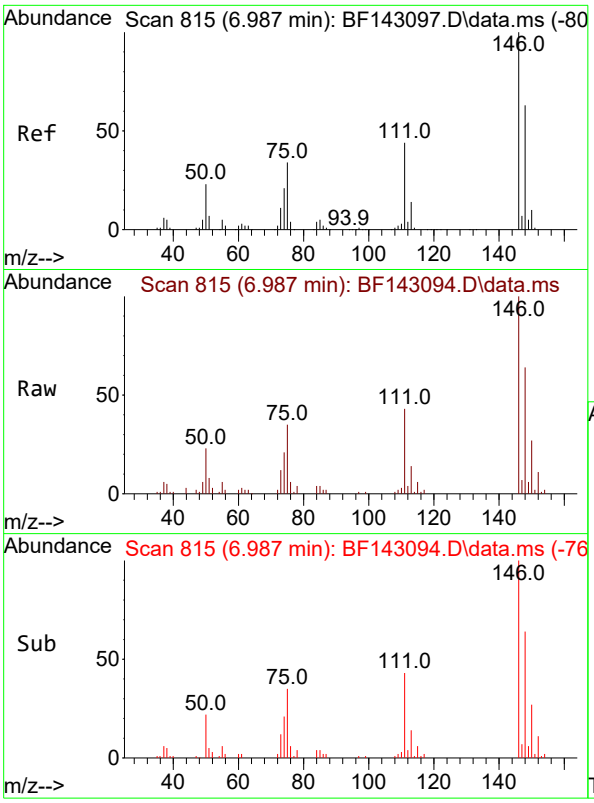


#12
1,3-Dichlorobenzene
Concen: 5.382 ng
RT: 6.910 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:146 Resp: 46218

Ion	Ratio	Lower	Upper
146	100		
148	65.2	50.1	75.1
75	33.8	27.4	41.0

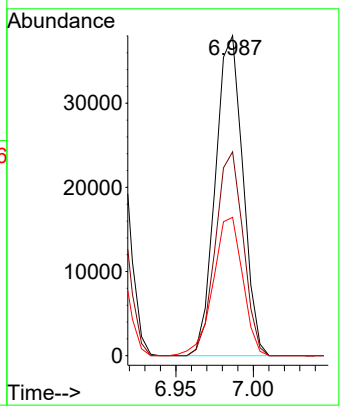




#13
1,4-Dichlorobenzene
Concen: 5.431 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:146 Resp: 4691

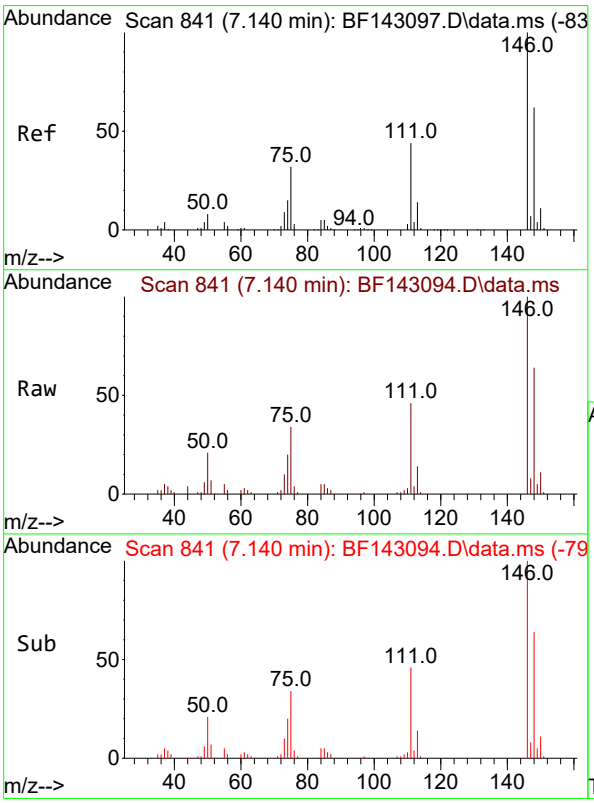
Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.6	76.0
111	43.3	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

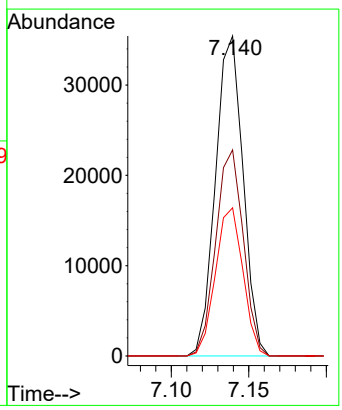
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

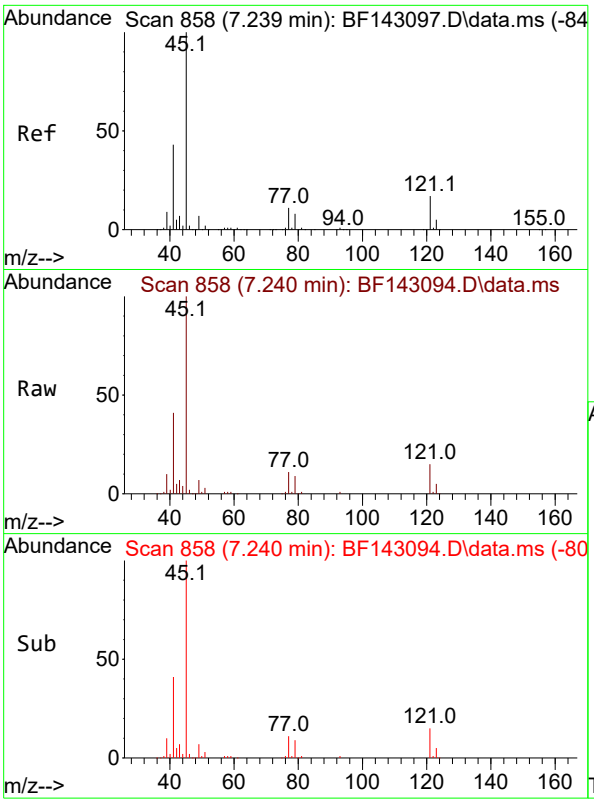


#14
1,2-Dichlorobenzene
Concen: 5.323 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:146 Resp: 43854

Ion	Ratio	Lower	Upper
146	100		
148	64.4	49.8	74.6
111	46.3	35.4	53.0

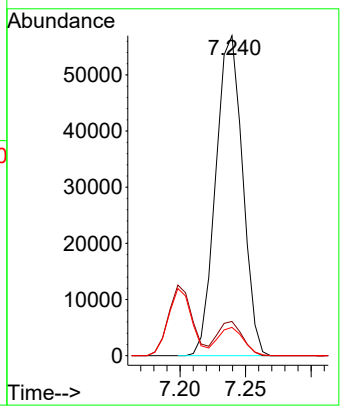




#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.518 ng
RT: 7.240 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 45 Resp: 8106

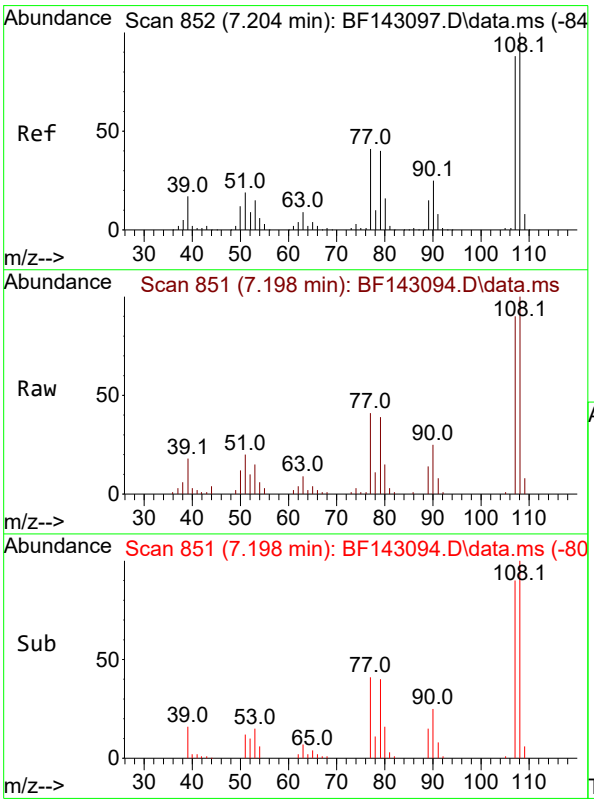
Ion	Ratio	Lower	Upper
45	100		
77	10.7	0.0	31.1
79	8.8	0.0	28.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

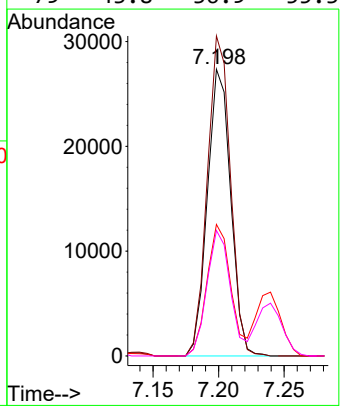
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

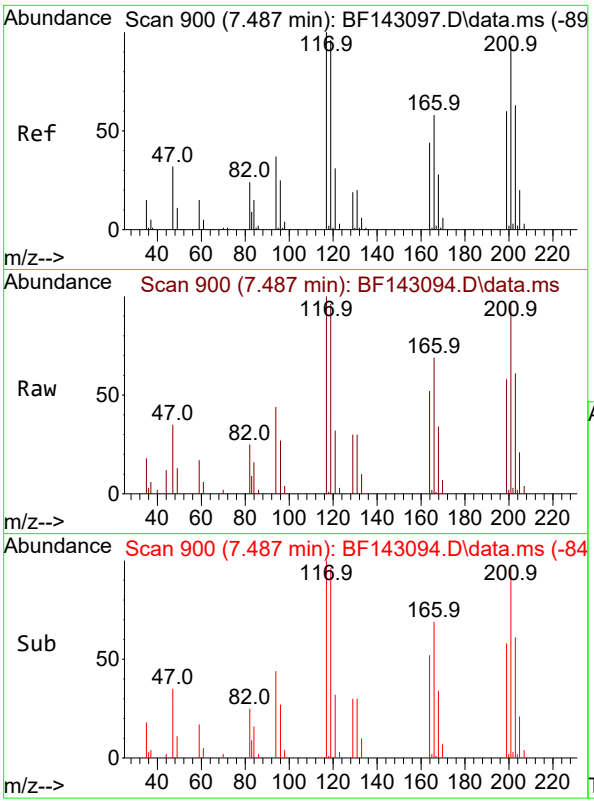


#17
2-Methylphenol
Concen: 5.158 ng
RT: 7.198 min Scan# 851
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:107 Resp: 33834

Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.9	136.3
77	45.9	37.5	56.3
79	43.8	36.9	55.3

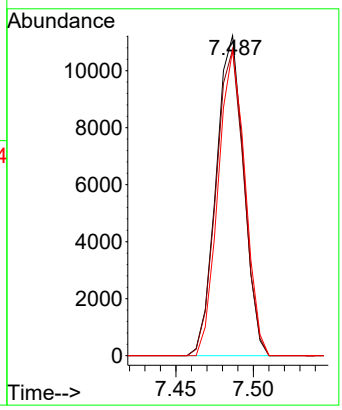




#18
Hexachloroethane
Concen: 4.938 ng
RT: 7.487 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:117 Resp: 1388

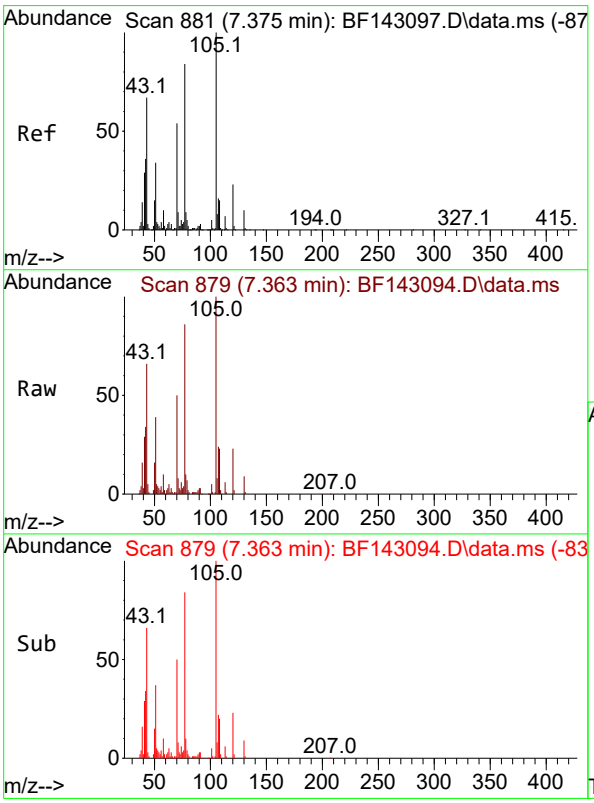
Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.7	115.1
201	95.6	75.0	112.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

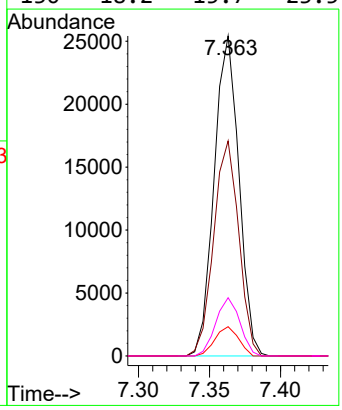
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

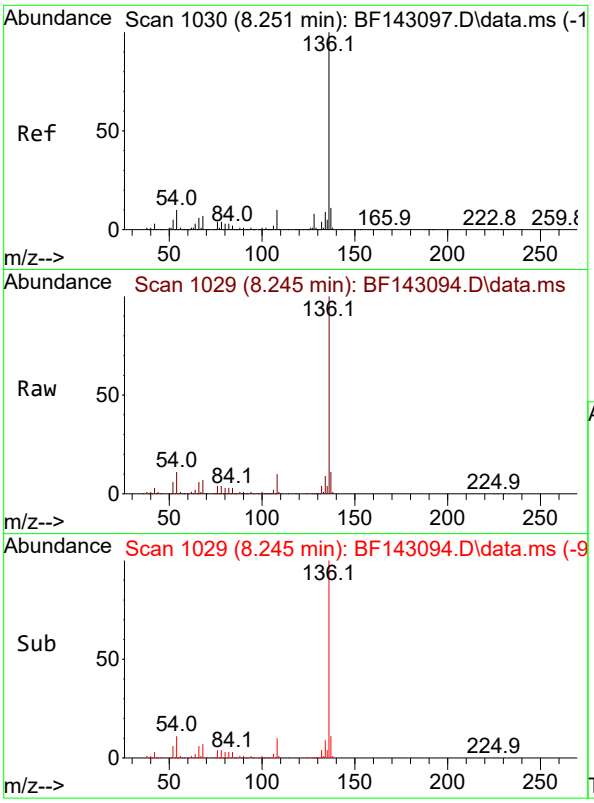


#19
n-Nitroso-di-n-propylamine
Concen: 5.277 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 70 Resp: 30747

Ion	Ratio	Lower	Upper
70	100		
42	67.2	53.2	79.8
101	9.1	7.5	11.3
130	18.2	15.7	23.5

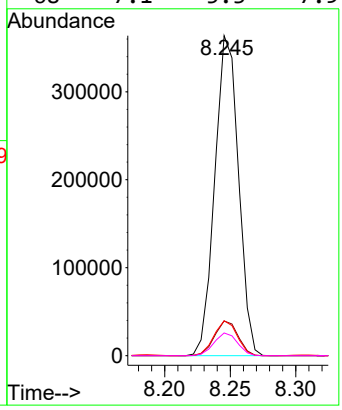




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:136 Resp: 45644

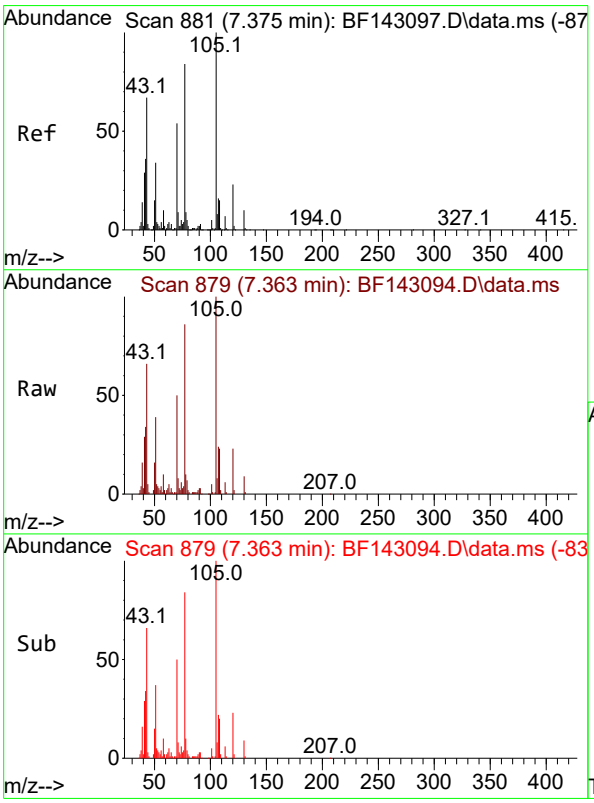
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	10.9	8.3	12.5
68	7.1	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

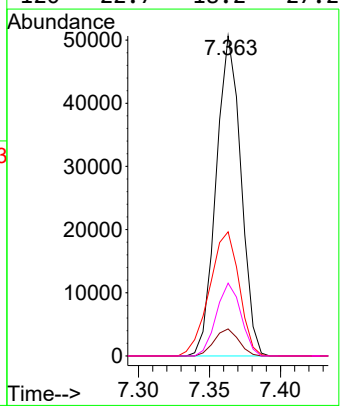
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

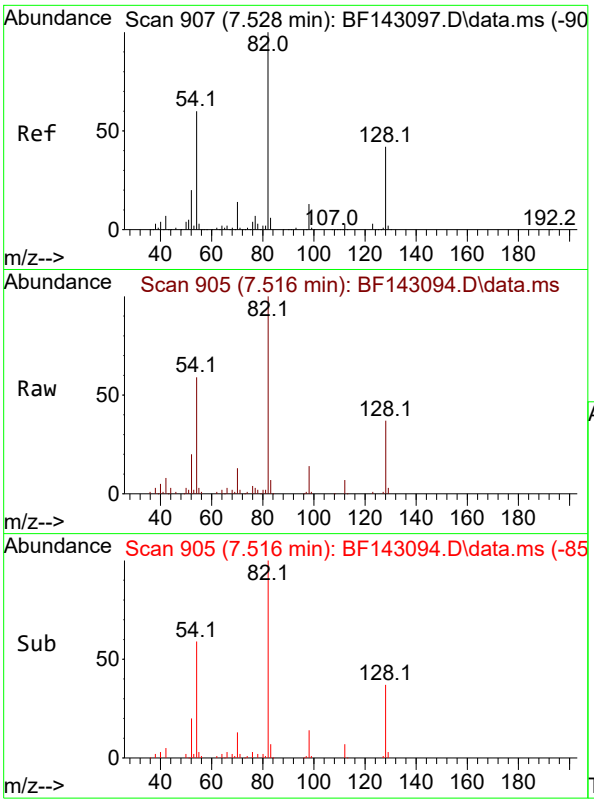


#22
Acetophenone
Concen: 5.580 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:105 Resp: 61393

Ion	Ratio	Lower	Upper
105	100		
71	8.5	7.2	10.8
51	38.8	27.0	40.4
120	22.7	18.2	27.2

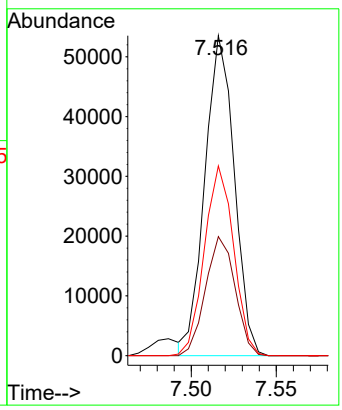




#23
Nitrobenzene-d5
Concen: 7.927 ng m
RT: 7.516 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 82 Resp: 6450

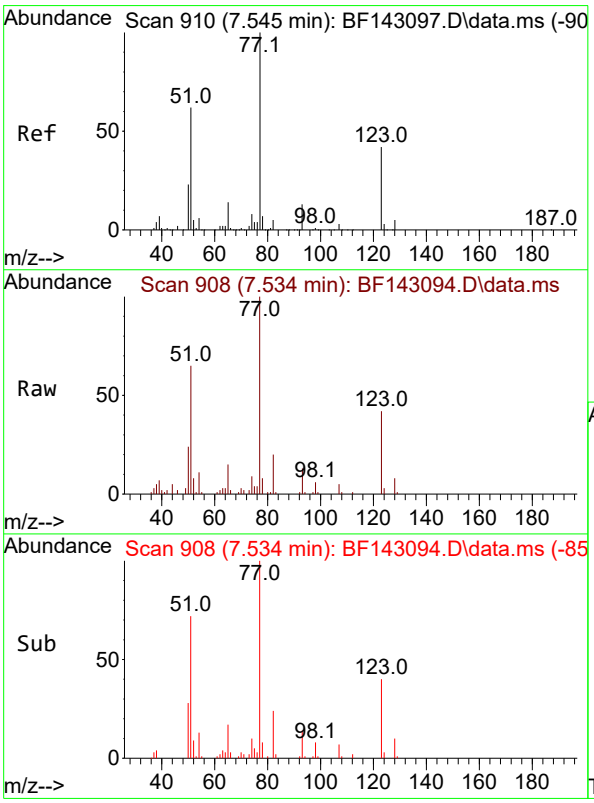
Ion	Ratio	Lower	Upper
82	100		
128	37.2	33.3	49.9
54	59.3	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

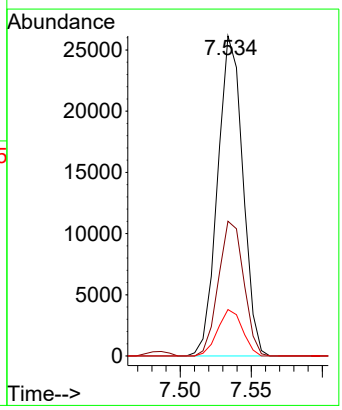
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

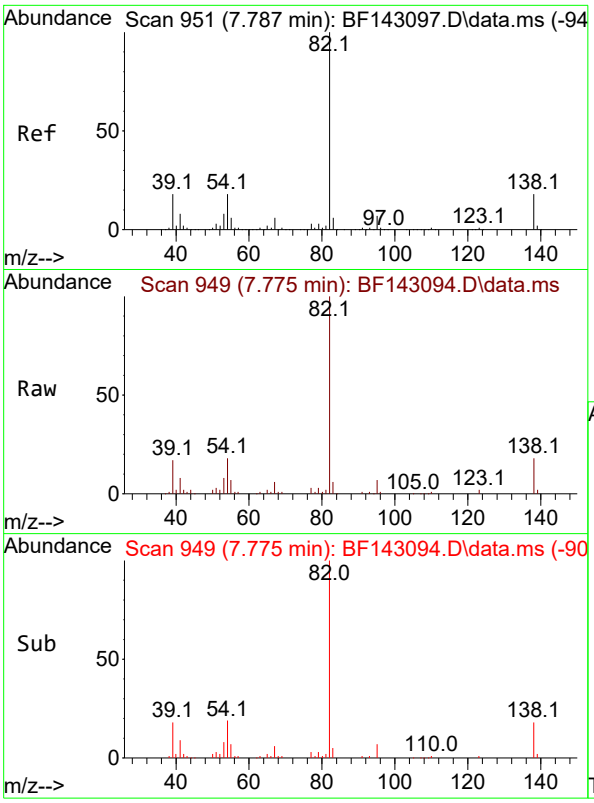


#24
Nitrobenzene
Concen: 4.100 ng
RT: 7.534 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 77 Resp: 32206

Ion	Ratio	Lower	Upper
77	100		
123	42.1	34.5	51.7
65	14.5	11.3	16.9

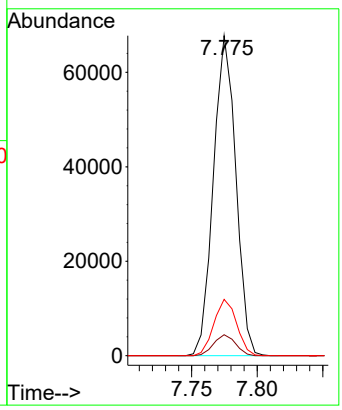




#25
Isophorone
Concen: 5.118 ng
RT: 7.775 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 82 Resp: 8049

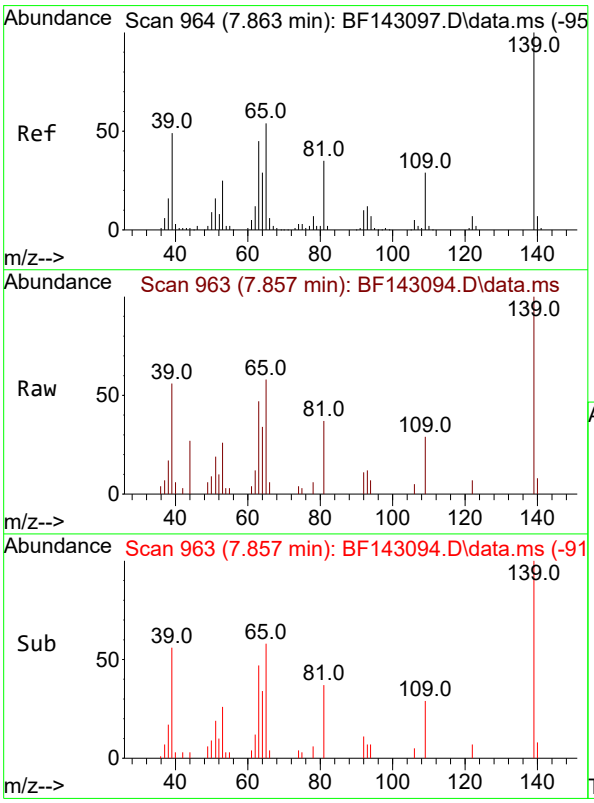
Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.6	8.4
138	17.6	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

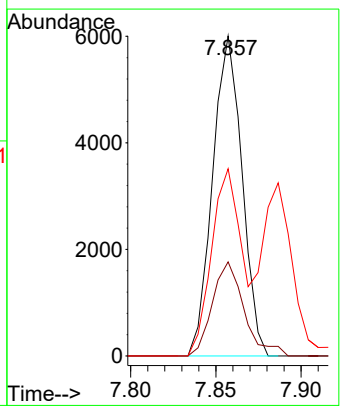
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

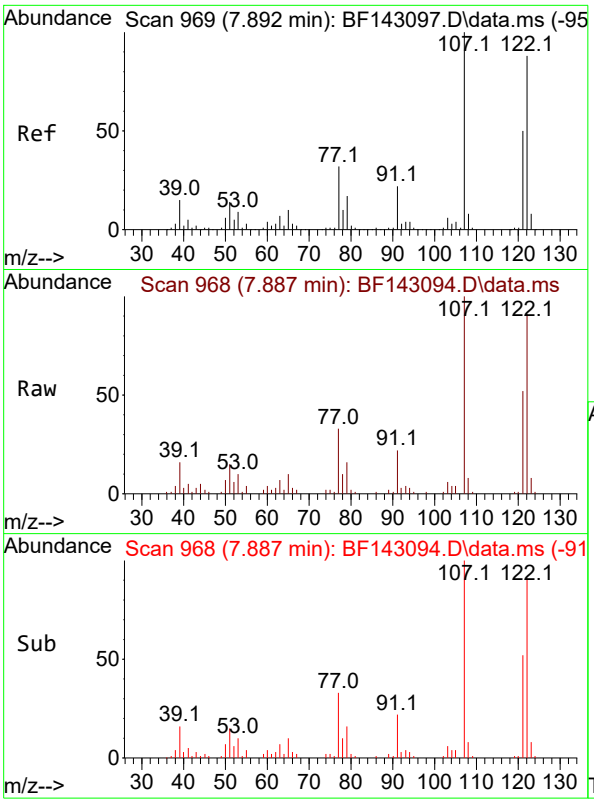


#26
2-Nitrophenol
Concen: 6.037 ng
RT: 7.857 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:139 Resp: 7204

Ion	Ratio	Lower	Upper
139	100		
109	29.4	23.4	35.0
65	58.5	43.4	65.2

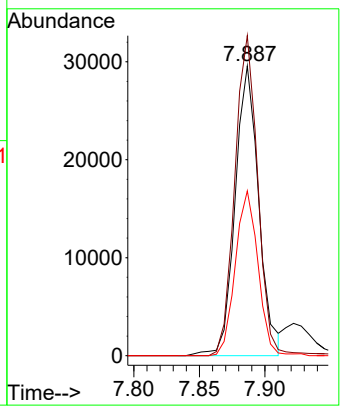




#27
2,4-Dimethylphenol
Concen: 5.082 ng
RT: 7.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:122 Resp: 3709

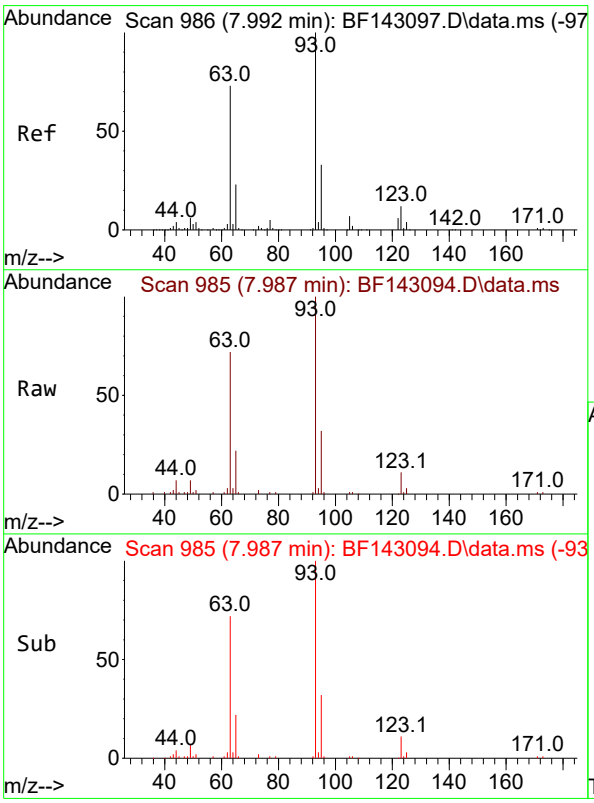
Ion	Ratio	Lower	Upper
122	100		
107	110.4	91.3	136.9
121	56.9	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

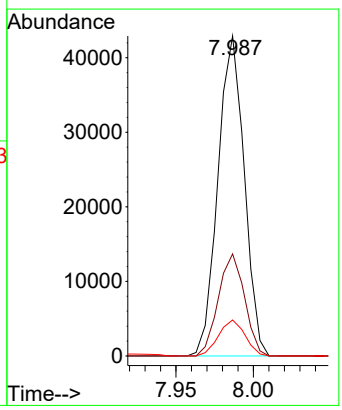
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

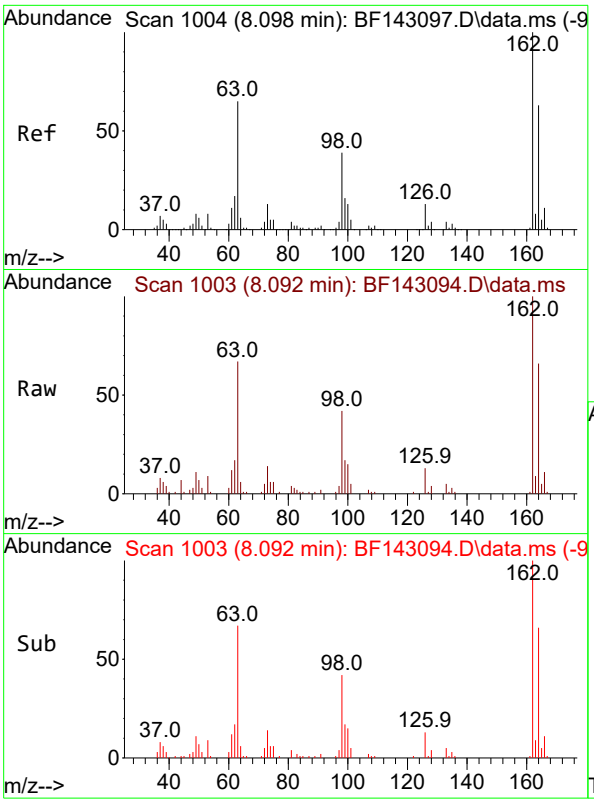


#28
bis(2-Chloroethoxy)methane
Concen: 5.310 ng
RT: 7.987 min Scan# 985
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 93 Resp: 50637

Ion	Ratio	Lower	Upper
93	100		
95	31.9	26.2	39.4
123	11.2	9.6	14.4

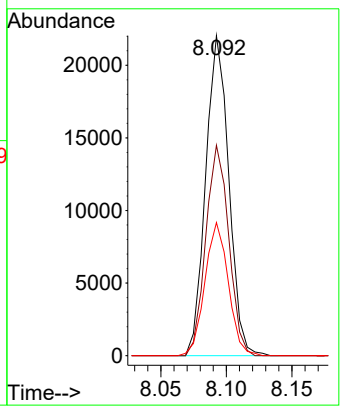




#29
2,4-Dichlorophenol
Concen: 4.529 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:162 Resp: 2704

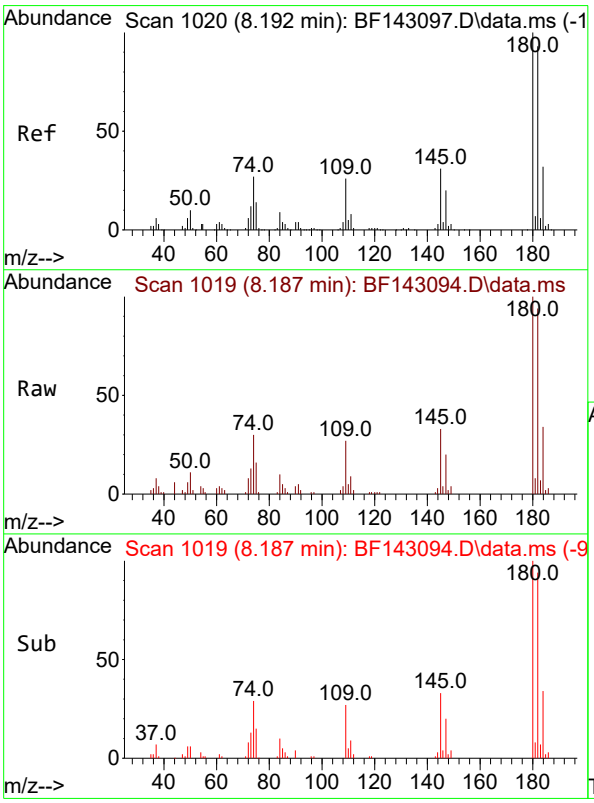
Ion	Ratio	Lower	Upper
162	100		
164	65.7	43.1	83.1
98	41.6	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

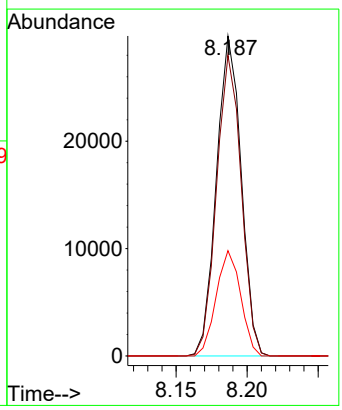
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

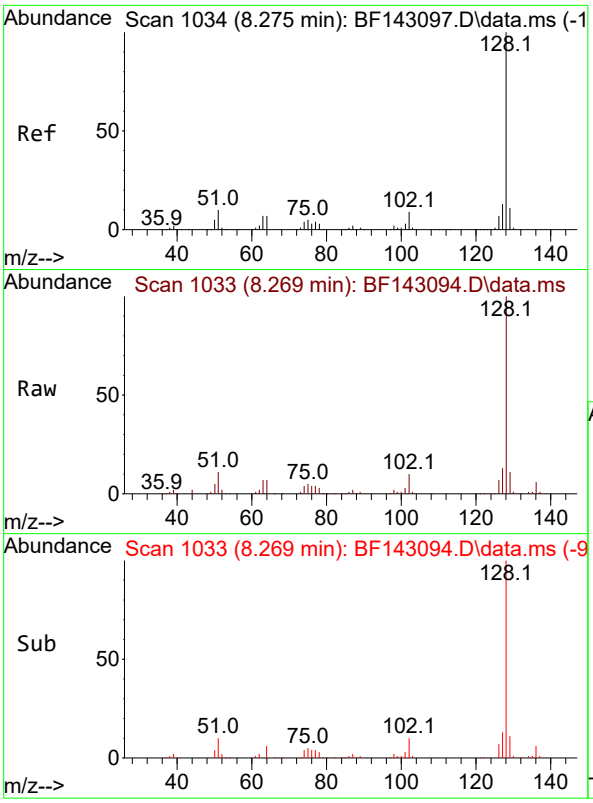


#30
1,2,4-Trichlorobenzene
Concen: 5.315 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:180 Resp: 36023

Ion	Ratio	Lower	Upper
180	100		
182	93.9	74.7	112.1
145	32.9	24.5	36.7

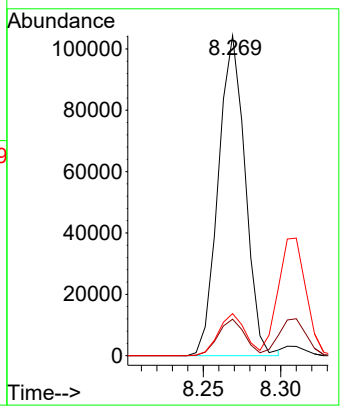




#31
Naphthalene
Concen: 5.535 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:128 Resp: 12546

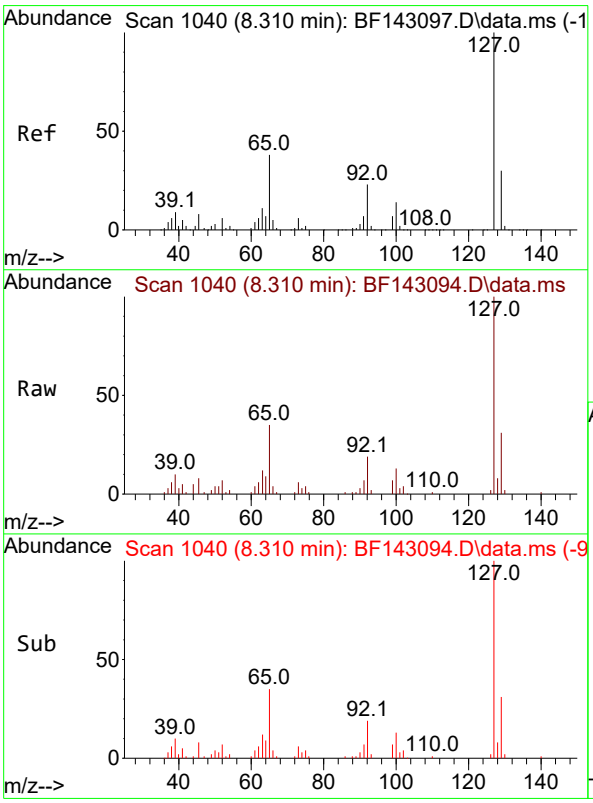
Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.0	13.4
127	13.2	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

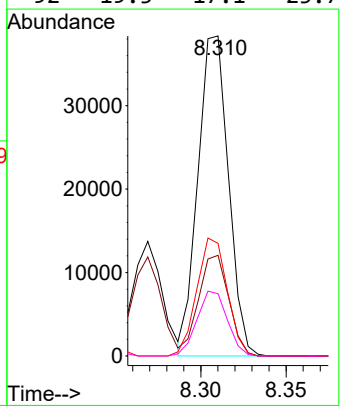
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

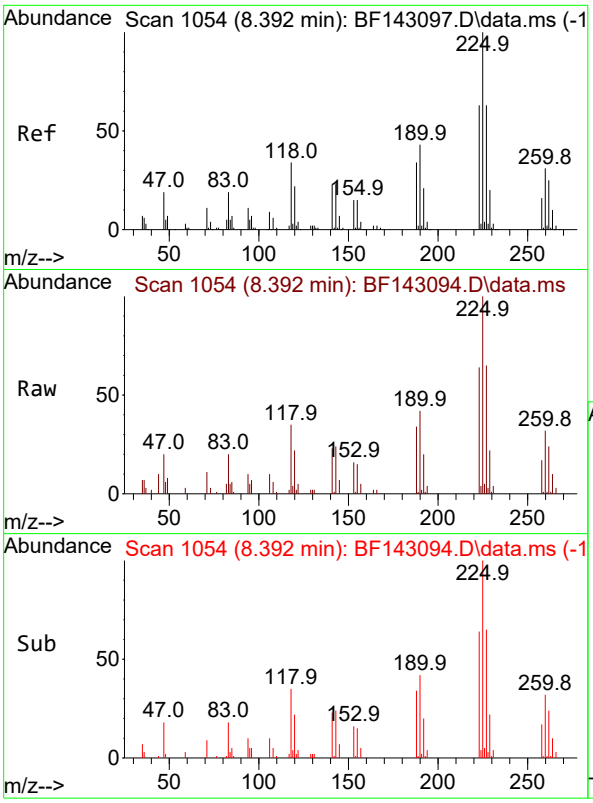


#33
4-Chloroaniline
Concen: 5.260 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:127 Resp: 47947

Ion	Ratio	Lower	Upper
127	100		
129	31.4	26.2	39.4
65	35.2	28.6	42.8
92	19.5	17.1	25.7

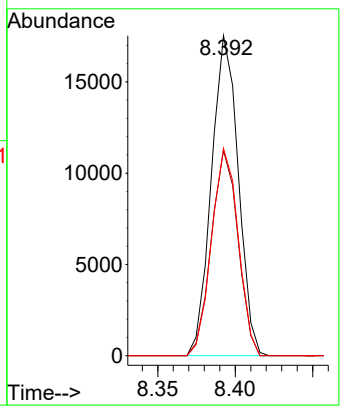




#34
Hexachlorobutadiene
Concen: 5.207 ng
RT: 8.392 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:225 Resp: 2110

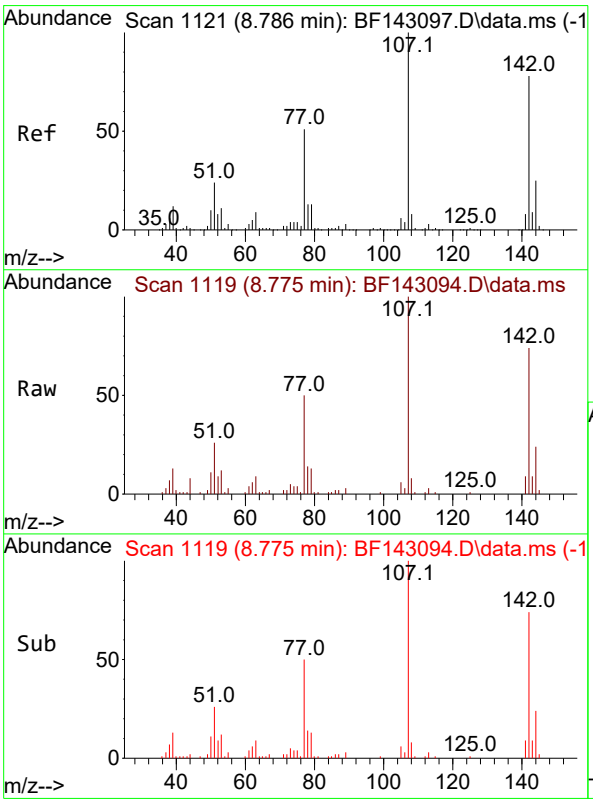
Ion	Ratio	Lower	Upper
225	100		
223	64.1	50.3	75.5
227	64.8	50.1	75.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

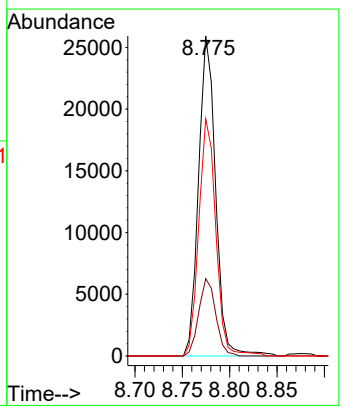
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

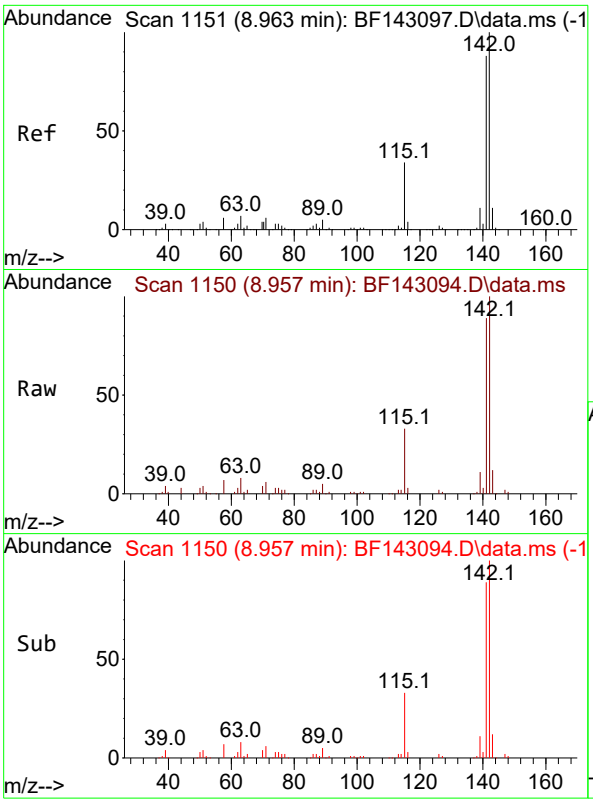


#36
4-Chloro-3-methylphenol
Concen: 4.892 ng
RT: 8.775 min Scan# 1119
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:107 Resp: 32542

Ion	Ratio	Lower	Upper
107	100		
144	24.1	20.2	30.2
142	74.1	62.4	93.6

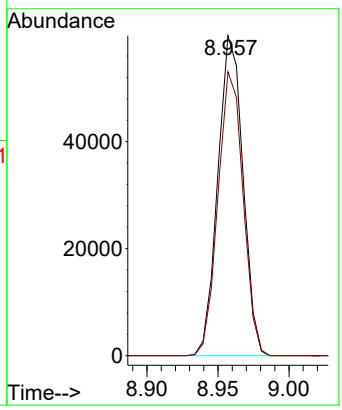




#37
2-Methylnaphthalene
Concen: 5.436 ng
RT: 8.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:142 Resp: 7351

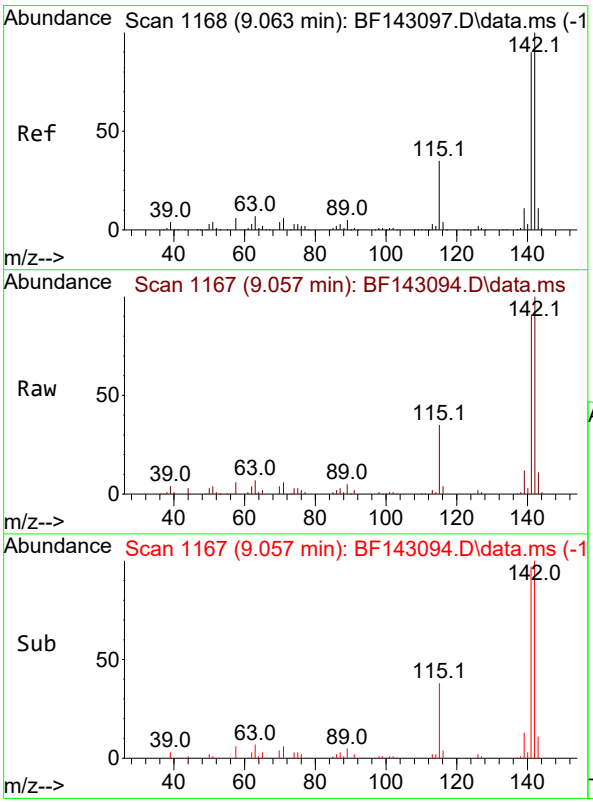
Ion	Ratio	Lower	Upper
142	100		
141	88.7	70.2	105.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

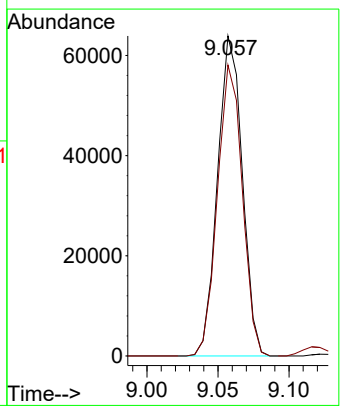
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

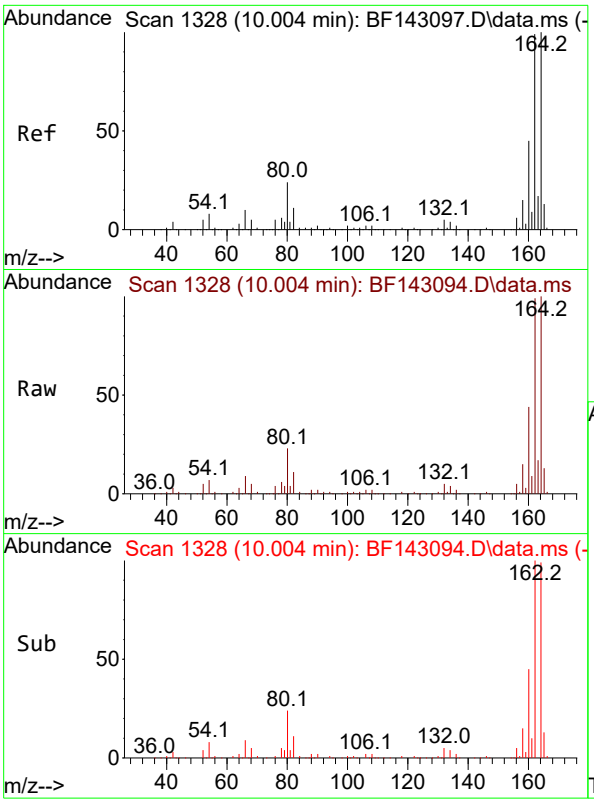


#38
1-Methylnaphthalene
Concen: 5.518 ng
RT: 9.057 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:142 Resp: 77390

Ion	Ratio	Lower	Upper
142	100		
141	90.9	72.2	108.4

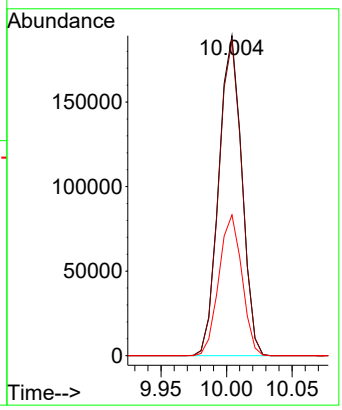




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:164 Resp: 23097

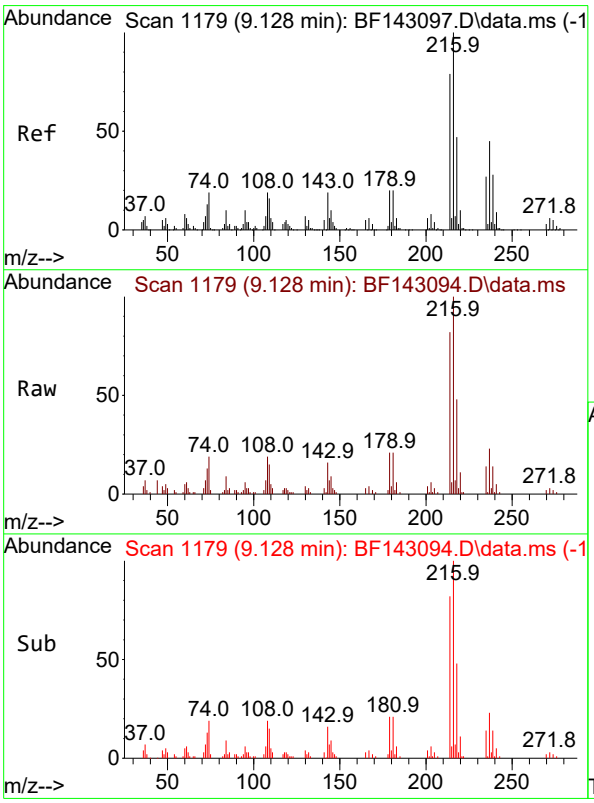
Ion	Ratio	Lower	Upper
164	100		
162	98.5	79.0	118.6
160	44.0	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

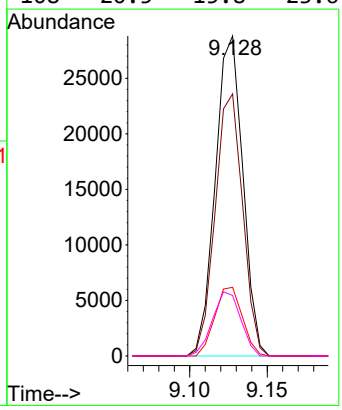
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

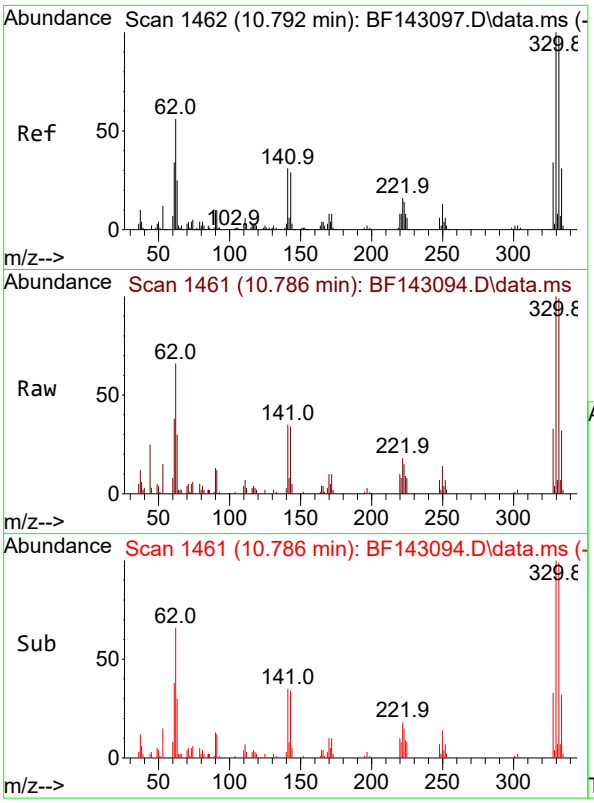


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.286 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:216 Resp: 35579

Ion	Ratio	Lower	Upper
216	100		
214	81.8	62.6	94.0
179	21.6	16.2	24.2
108	20.5	15.8	23.6

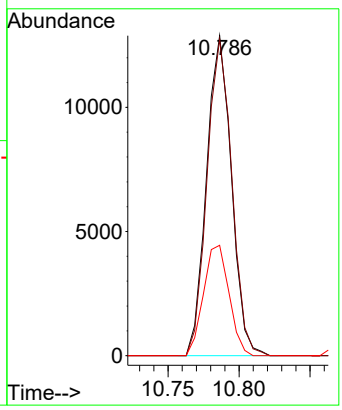




#42
2,4,6-Tribromophenol
Concen: 7.625 ng
RT: 10.786 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:330 Resp: 1570

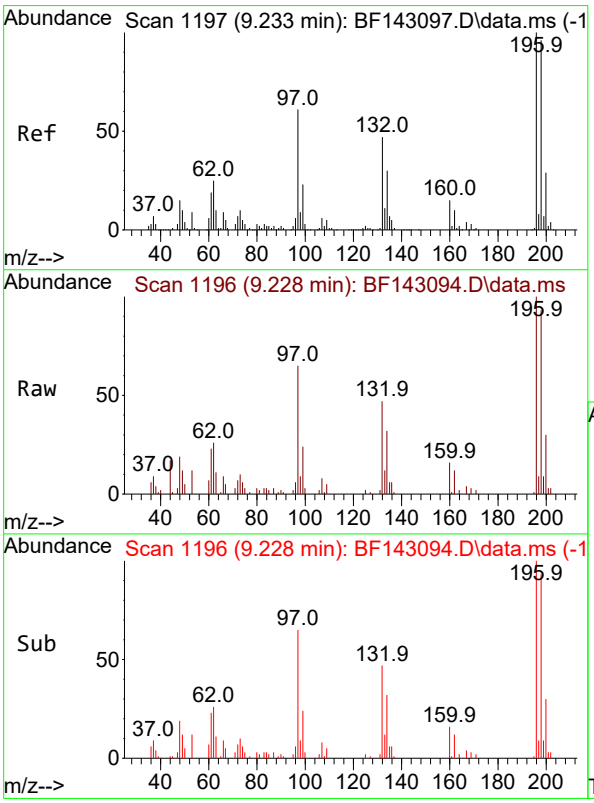
Ion	Ratio	Lower	Upper
330	100		
332	98.4	77.9	116.9
141	35.3	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

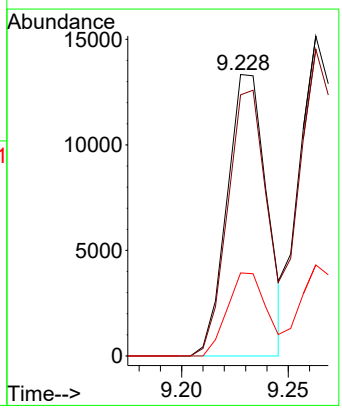
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

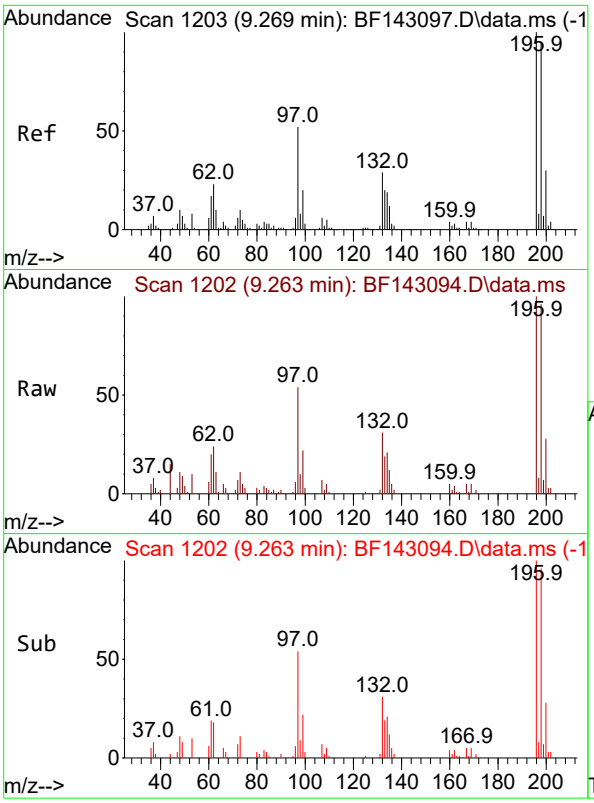


#43
2,4,6-Trichlorophenol
Concen: 4.135 ng
RT: 9.228 min Scan# 1196
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:196 Resp: 17295

Ion	Ratio	Lower	Upper
196	100		
198	92.8	76.9	115.3
200	29.5	23.5	35.3

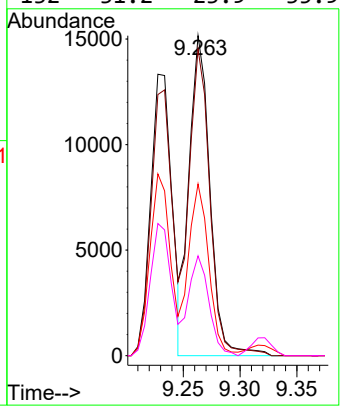




#44
2,4,5-Trichlorophenol
Concen: 4.427 ng
RT: 9.263 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:196 Resp: 1941

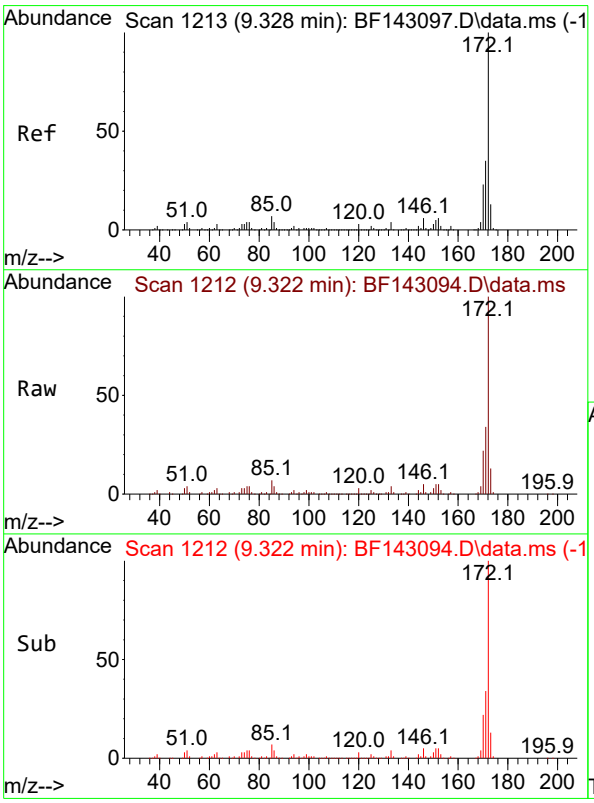
Ion	Ratio	Lower	Upper
196	100		
198	95.9	76.4	114.6
97	53.7	42.4	63.6
132	31.2	23.9	35.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

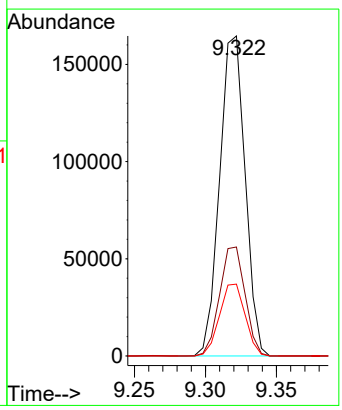
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

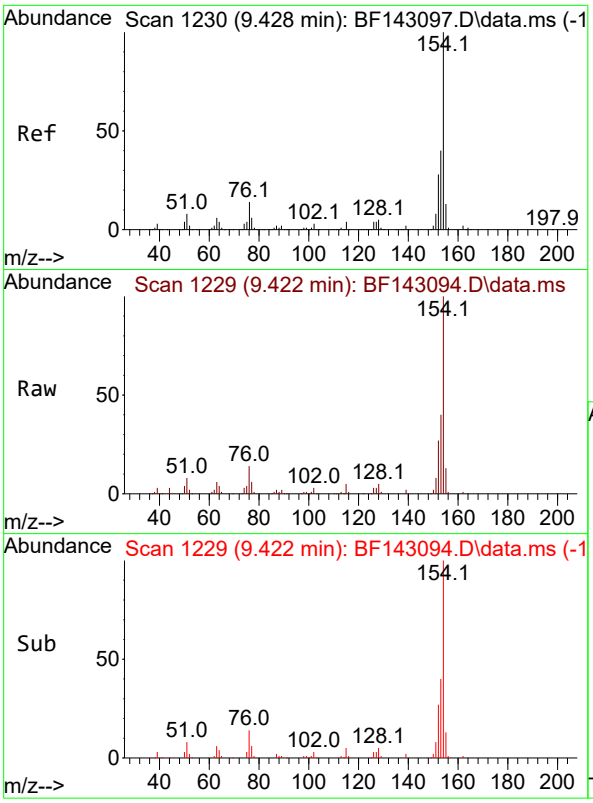


#45
2-Fluorobiphenyl
Concen: 11.814 ng
RT: 9.322 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:172 Resp: 205273

Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.2	42.4
170	22.5	18.6	28.0

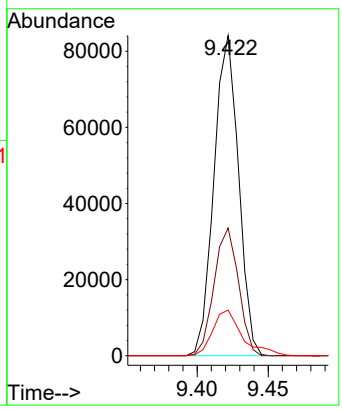




#46
1,1'-Biphenyl
Concen: 5.486 ng
RT: 9.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:154 Resp: 10105

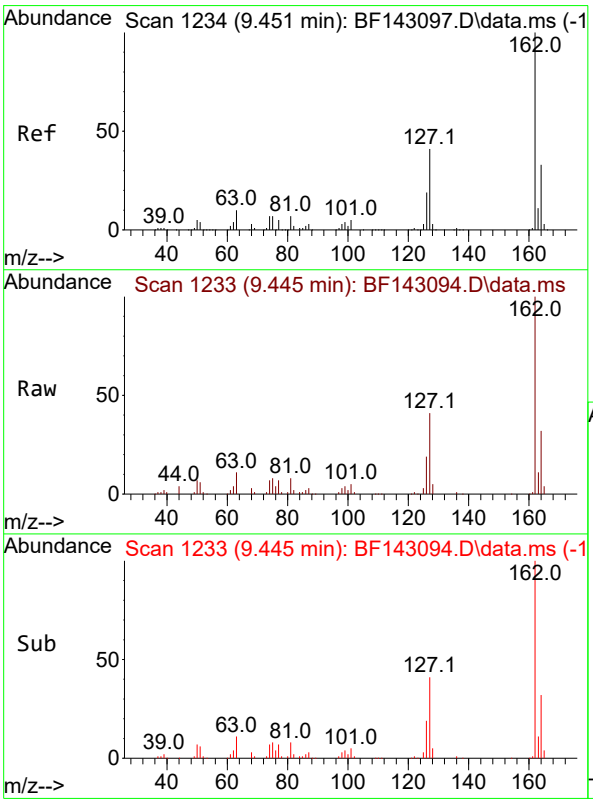
Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.1	60.1
76	14.2	0.0	33.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

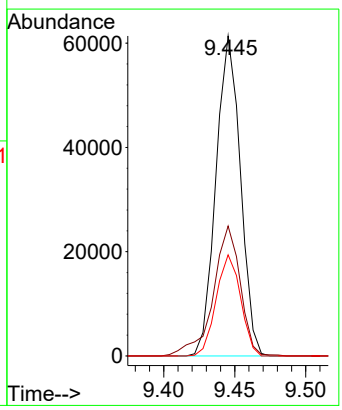
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

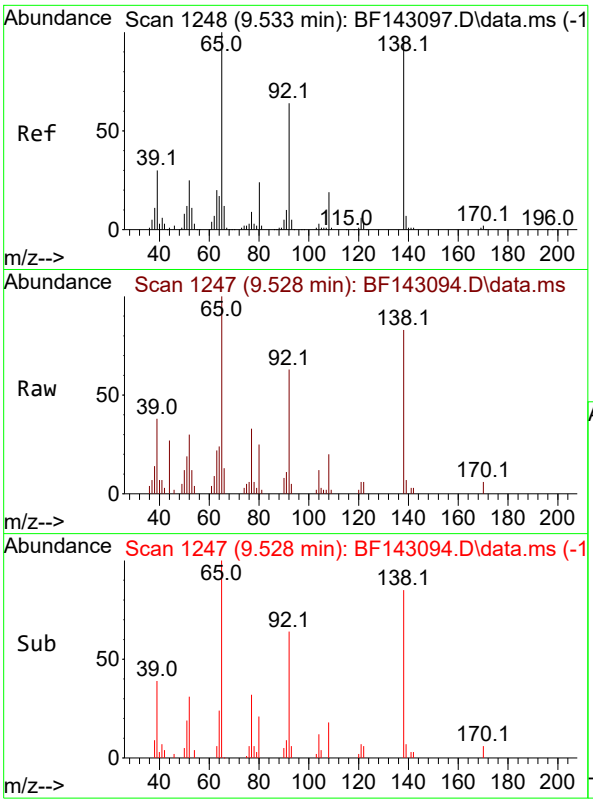


#47
2-Chloronaphthalene
Concen: 5.423 ng
RT: 9.445 min Scan# 1233
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:162 Resp: 73385

Ion	Ratio	Lower	Upper
162	100		
127	40.6	33.0	49.6
164	31.6	26.1	39.1

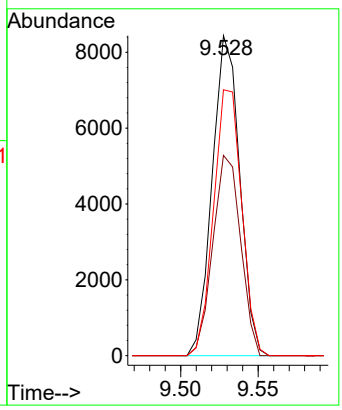




#48
2-Nitroaniline
Concen: 5.579 ng
RT: 9.528 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 65 Resp: 1039

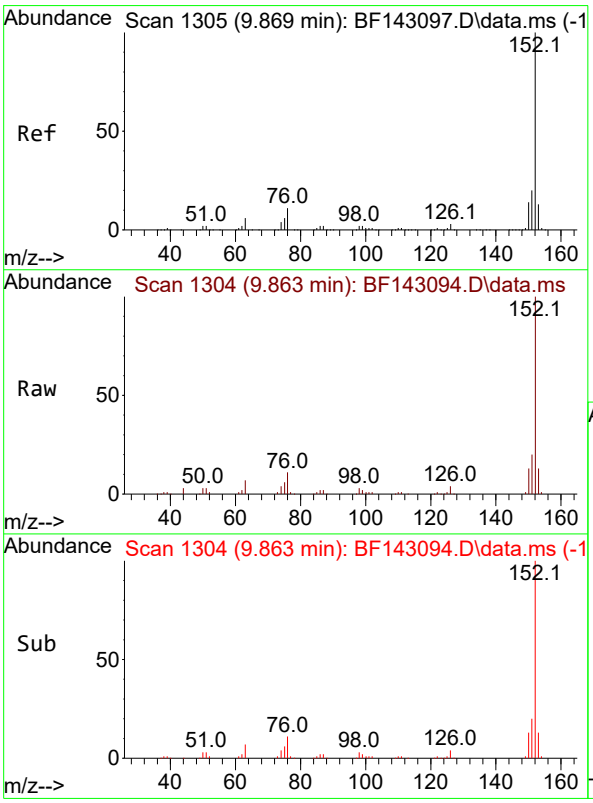
Ion	Ratio	Lower	Upper
65	100		
92	62.6	51.3	76.9
138	83.1	77.8	116.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

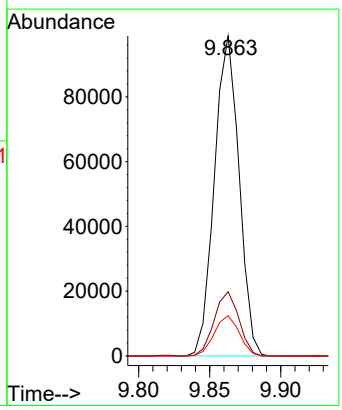
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

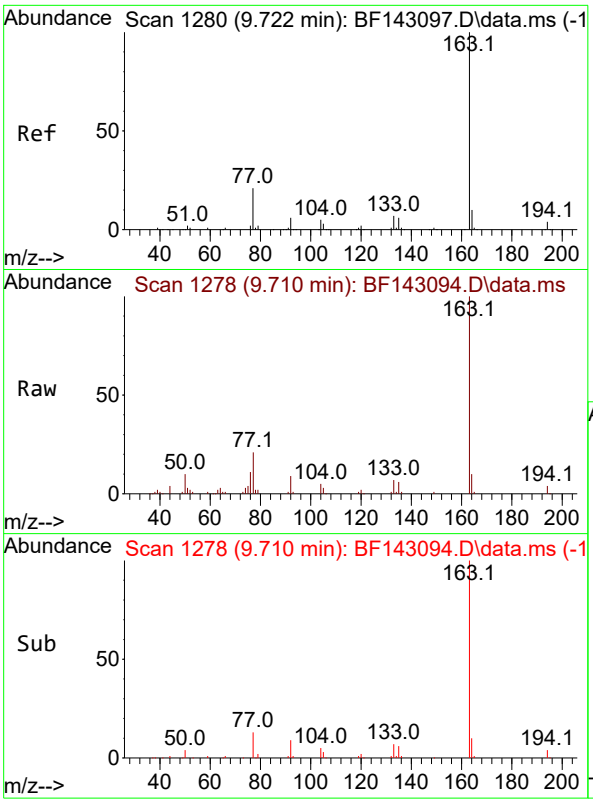


#49
Acenaphthylene
Concen: 5.276 ng
RT: 9.863 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:152 Resp: 118965

Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.8
153	12.6	10.4	15.6





#50
Dimethylphthalate
Concen: 5.207 ng
RT: 9.710 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

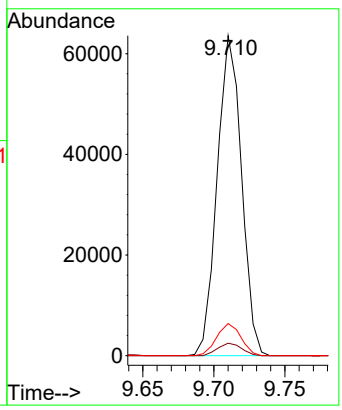
Tgt Ion:163 Resp: 7565

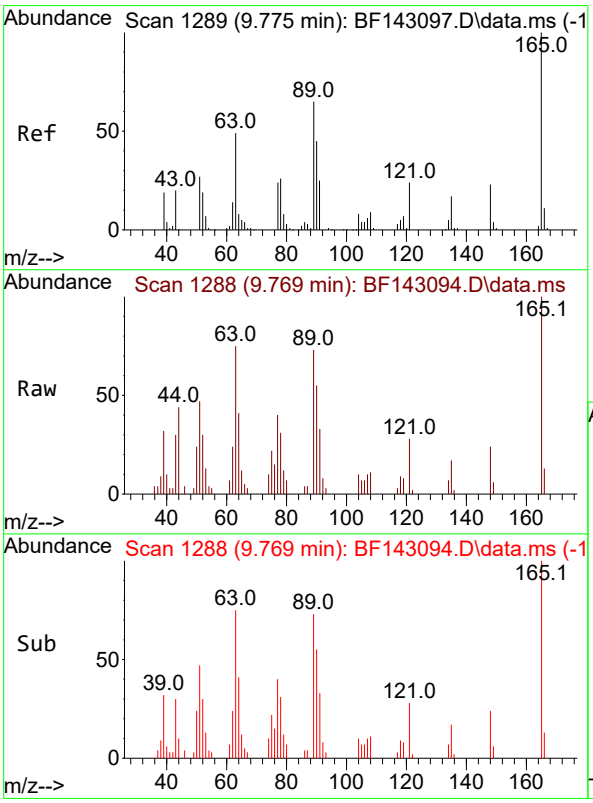
Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.4	5.2
164	10.1	8.2	12.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

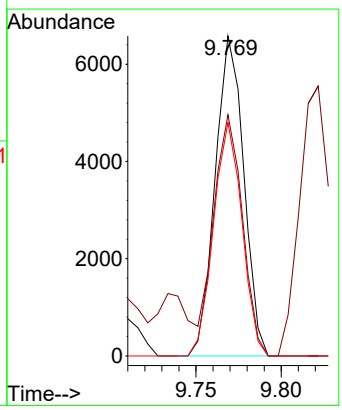


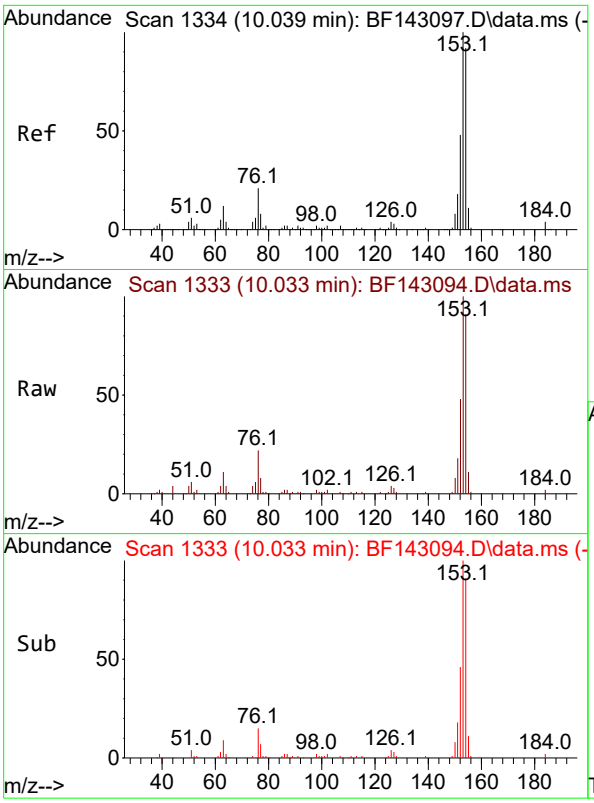


#51
2,6-Dinitrotoluene
Concen: 5.308 ng
RT: 9.769 min Scan# 1288
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:165 Resp: 7659

Ion	Ratio	Lower	Upper
165	100		
63	75.4	57.4	86.0
89	72.9	51.8	77.8

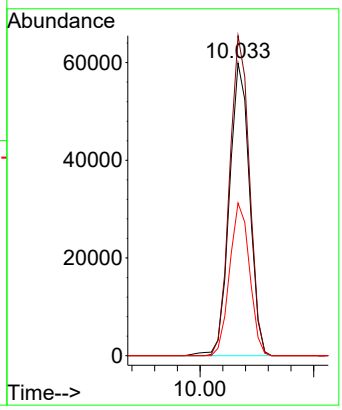




#52
Acenaphthene
Concen: 5.526 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:154 Resp: 7353

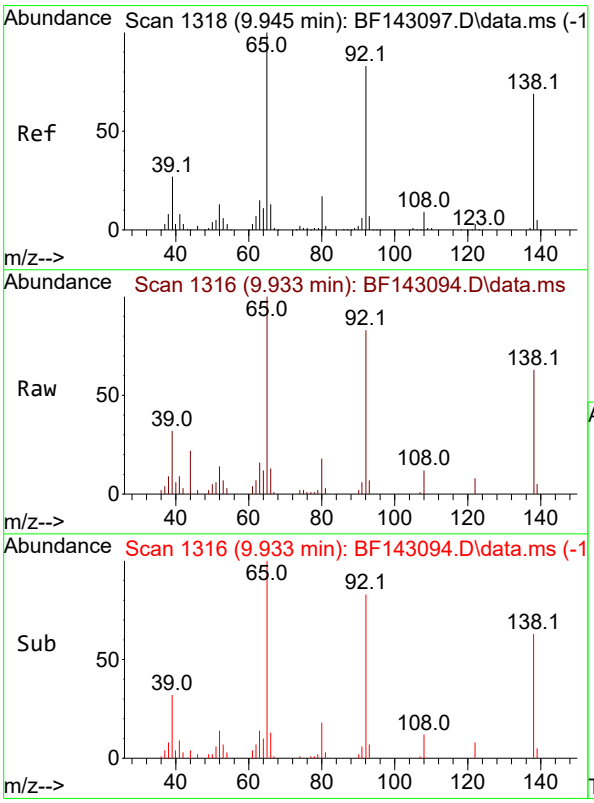
Ion	Ratio	Lower	Upper
154	100		
153	109.4	86.7	130.1
152	52.2	41.4	62.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

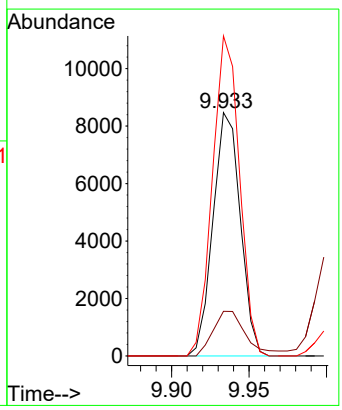
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

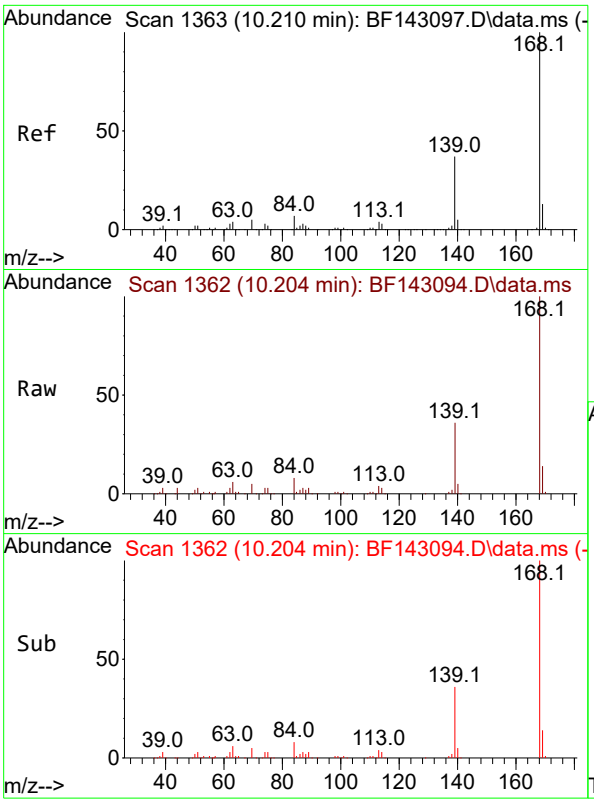


#53
3-Nitroaniline
Concen: 3.307 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:138 Resp: 10382

Ion	Ratio	Lower	Upper
138	100		
108	18.3	10.1	15.1#
92	131.5	96.4	144.6

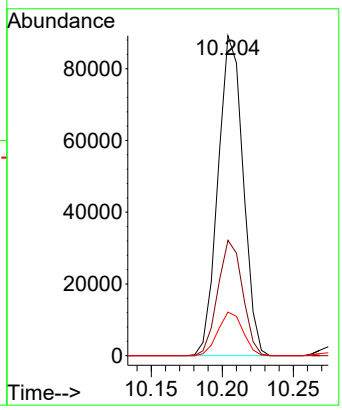




#55
Dibenzofuran
Concen: 5.518 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:168 Resp: 10943

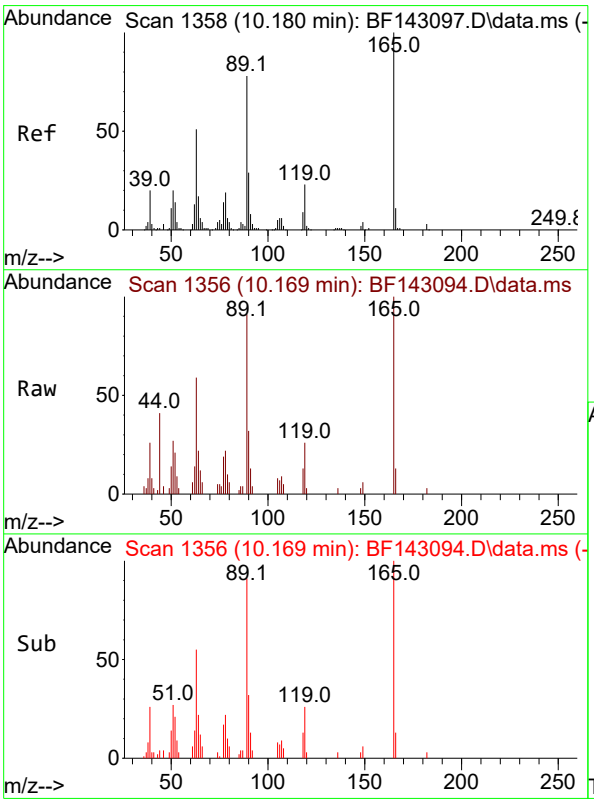
Ion	Ratio	Lower	Upper
168	100		
139	36.1	29.8	44.6
169	13.6	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

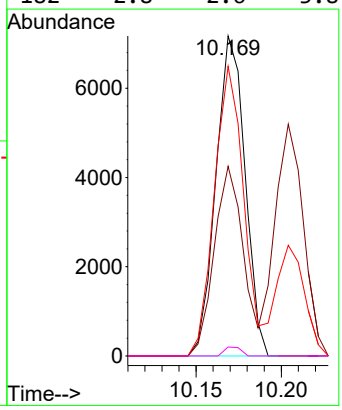
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

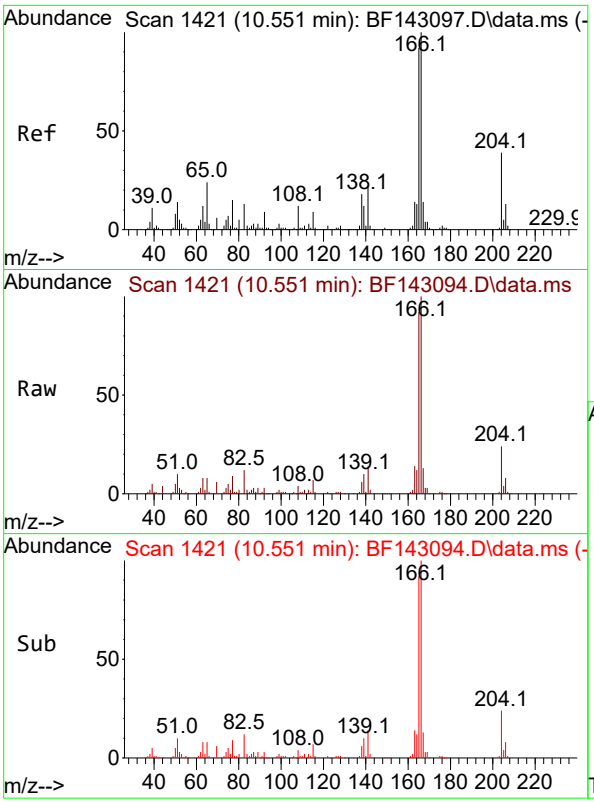


#57
2,4-Dinitrotoluene
Concen: 5.606 ng
RT: 10.169 min Scan# 1356
Delta R.T. -0.011 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:165 Resp: 8515

Ion	Ratio	Lower	Upper
165	100		
63	59.3	40.6	61.0
89	90.5	62.3	93.5
182	2.8	2.6	3.8

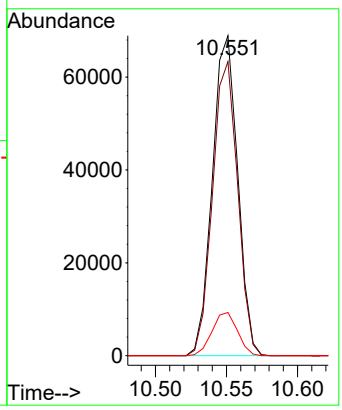




#58
Fluorene
Concen: 5.738 ng
RT: 10.551 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:166 Resp: 8531

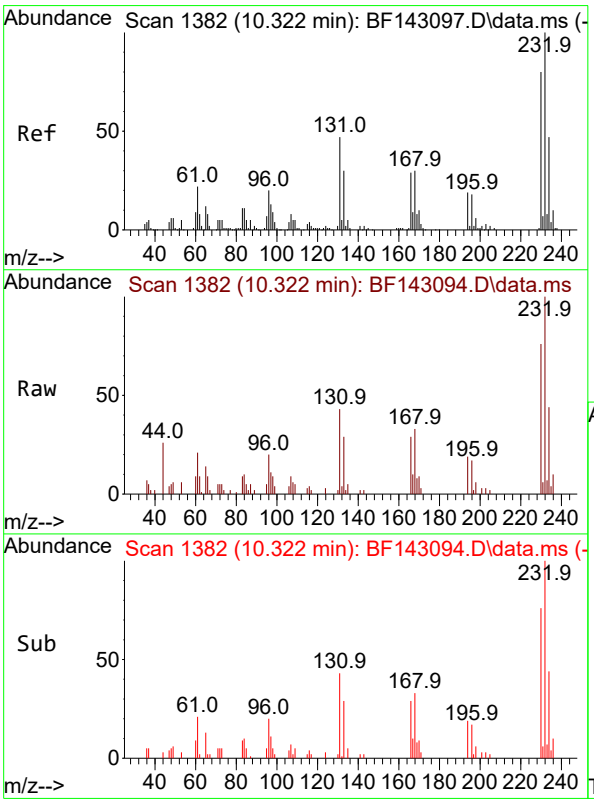
Ion	Ratio	Lower	Upper
166	100		
165	91.9	73.7	110.5
167	13.5	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

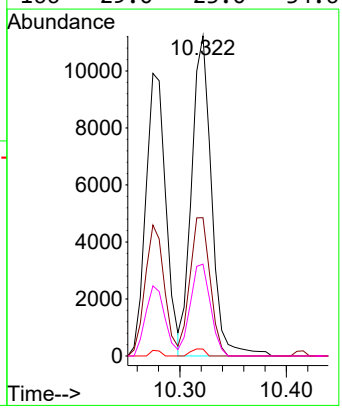
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

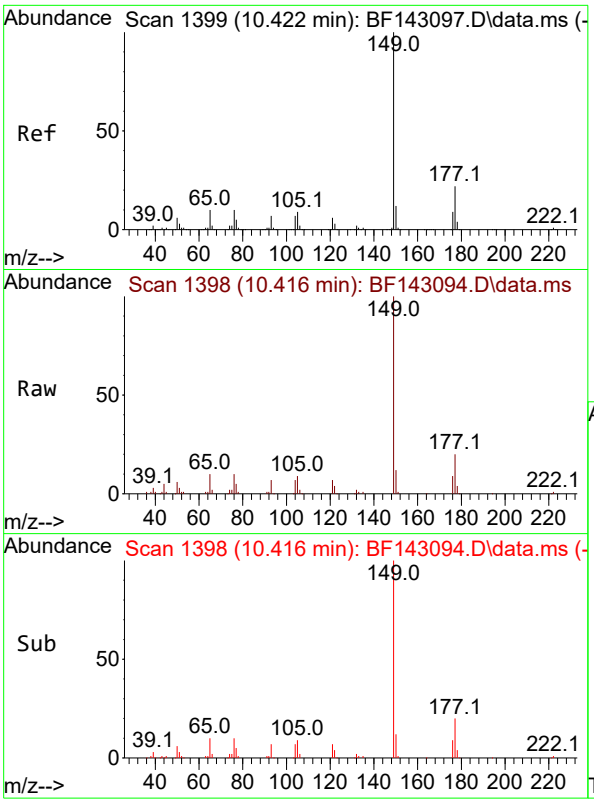


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.192 ng
RT: 10.322 min Scan# 1382
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:232 Resp: 14610

Ion	Ratio	Lower	Upper
232	100		
131	43.7	36.9	55.3
130	1.5	1.8	2.8#
166	29.0	23.0	34.6

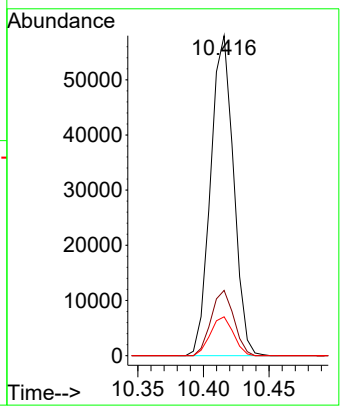




#60
Diethylphthalate
Concen: 5.031 ng
RT: 10.416 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:149 Resp: 7053

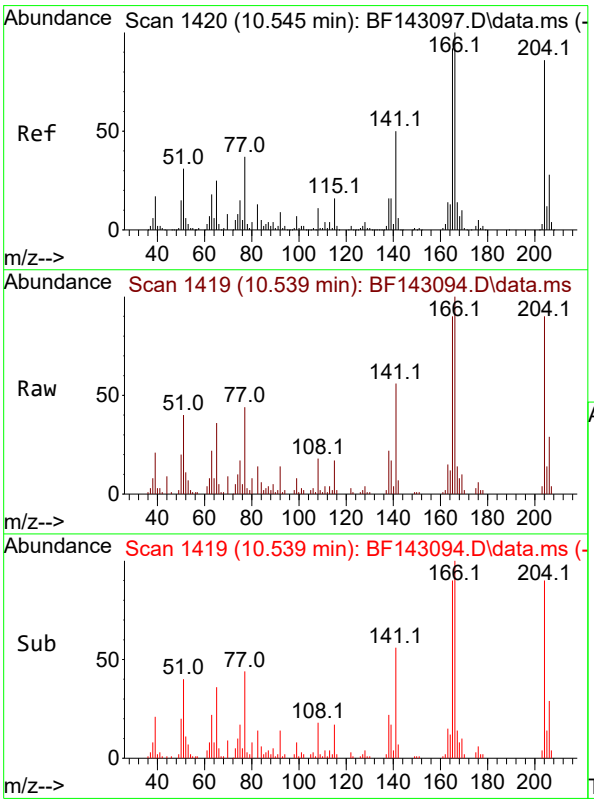
Ion	Ratio	Lower	Upper
149	100		
177	20.4	17.3	25.9
150	12.1	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

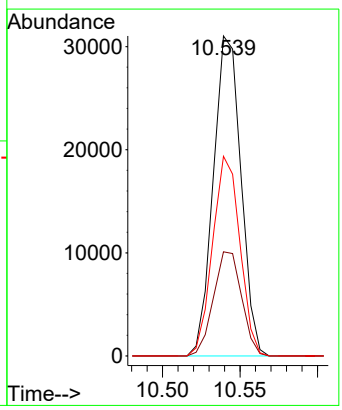
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

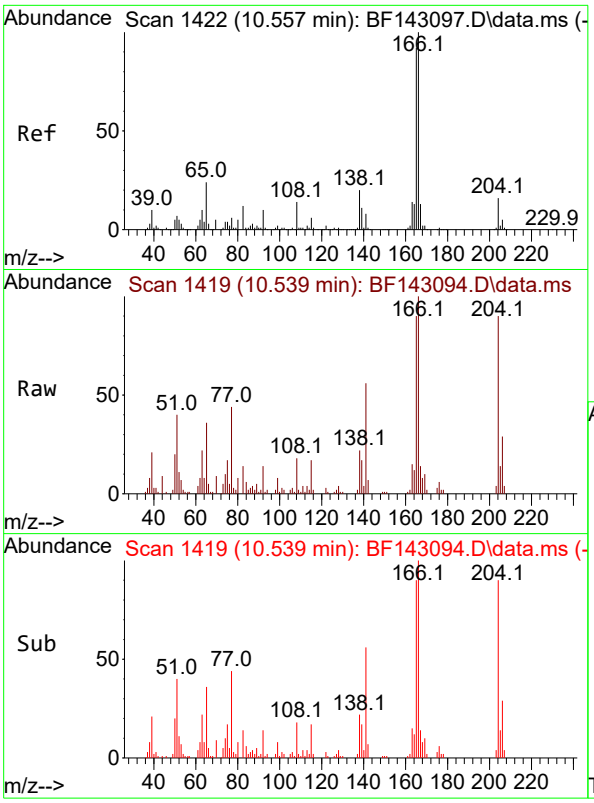


#61
4-Chlorophenyl-phenylether
Concen: 5.395 ng
RT: 10.539 min Scan# 1419
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:204 Resp: 38452

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	62.4	46.8	70.2

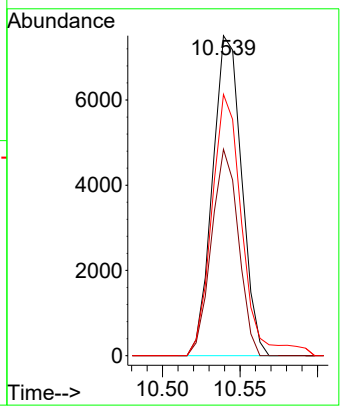




#62
4-Nitroaniline
Concen: 3.581 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:138 Resp: 977

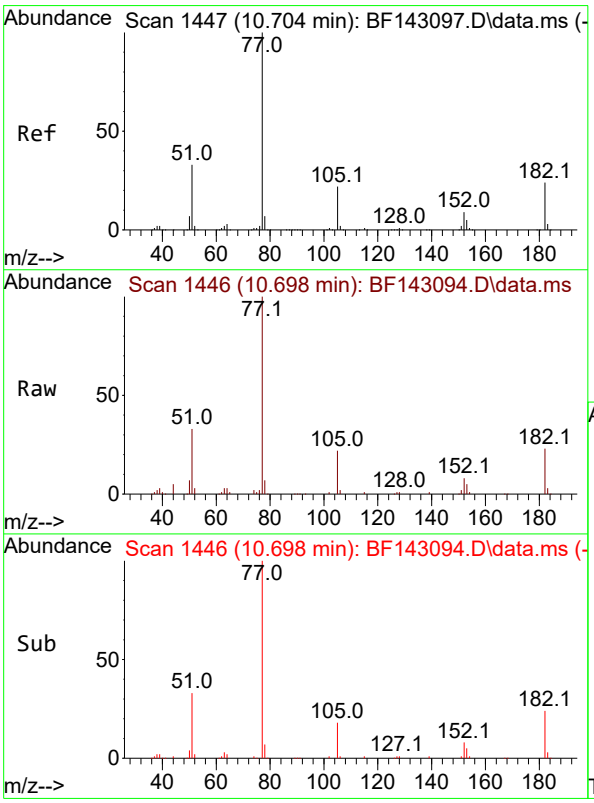
Ion	Ratio	Lower	Upper
138	100		
92	64.5	30.4	70.4
108	81.6	49.5	89.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

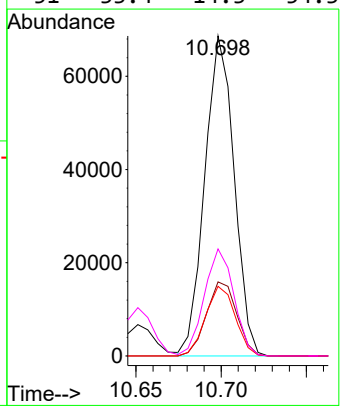
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

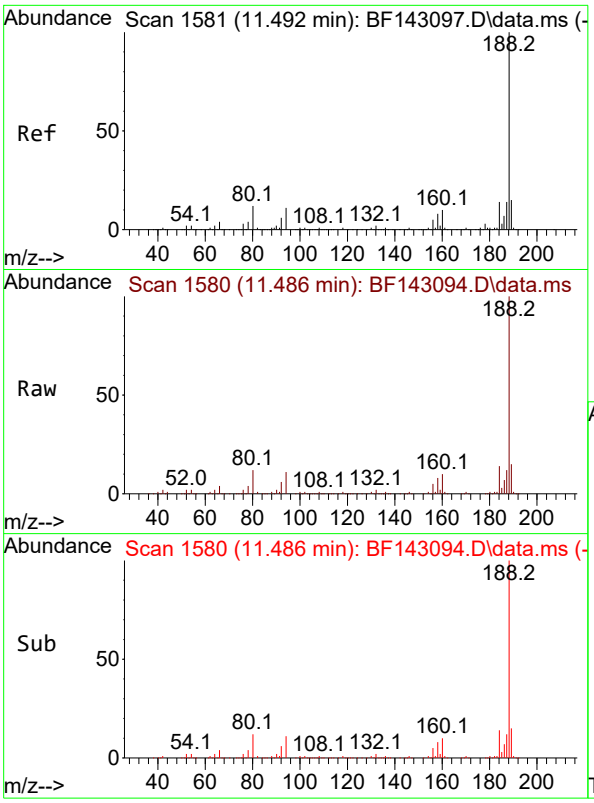


#63
Azobenzene
Concen: 5.308 ng
RT: 10.698 min Scan# 1446
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion: 77 Resp: 82291

Ion	Ratio	Lower	Upper
77	100		
182	23.1	4.0	44.0
105	21.8	1.4	41.4
51	33.4	14.3	54.3

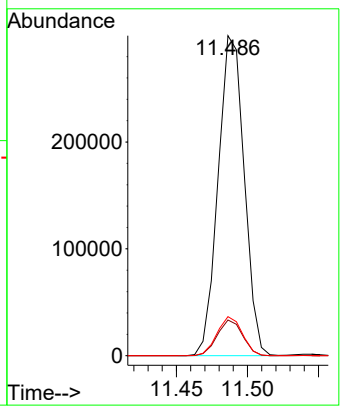




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:188 Resp: 38257

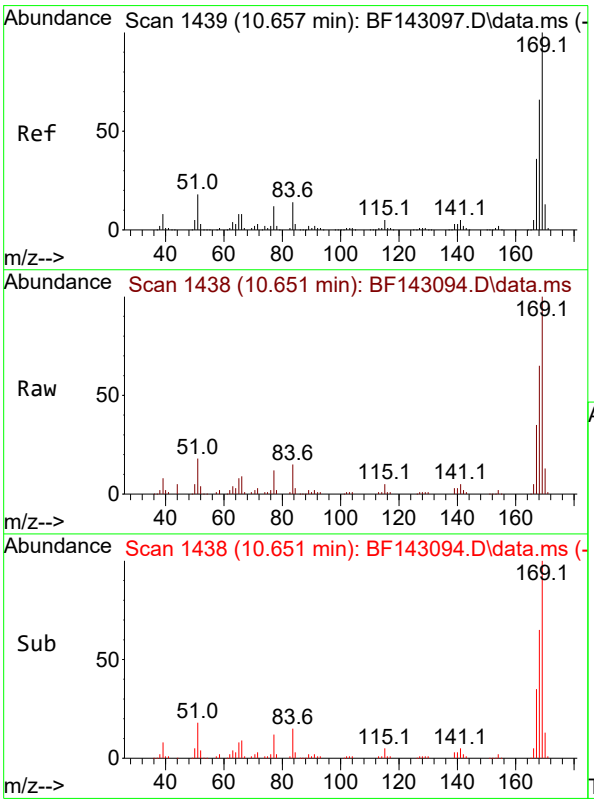
Ion	Ratio	Lower	Upper
188	100		
94	11.2	8.6	13.0
80	12.2	9.3	13.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

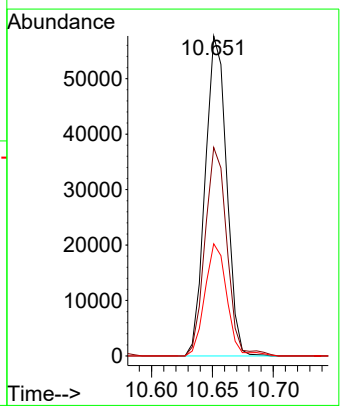
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

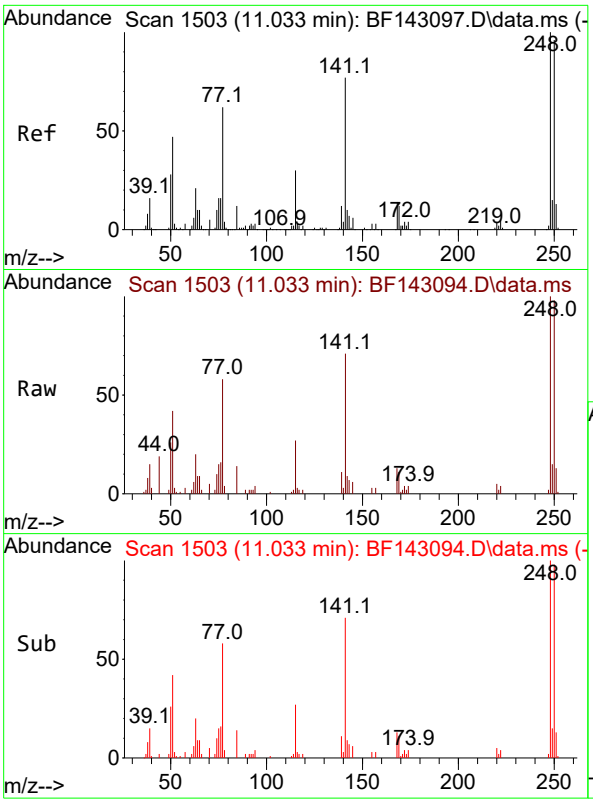


#66
n-Nitrosodiphenylamine
Concen: 5.231 ng
RT: 10.651 min Scan# 1438
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:169 Resp: 70293

Ion	Ratio	Lower	Upper
169	100		
168	65.2	53.0	79.6
167	35.1	28.4	42.6





#67
4-Bromophenyl-phenylether
Concen: 5.086 ng
RT: 11.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

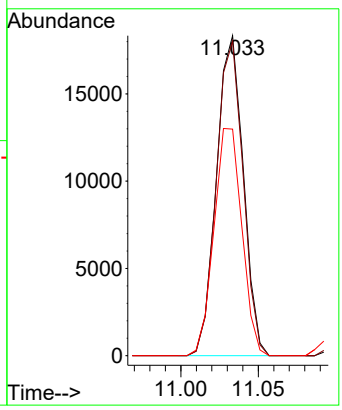
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

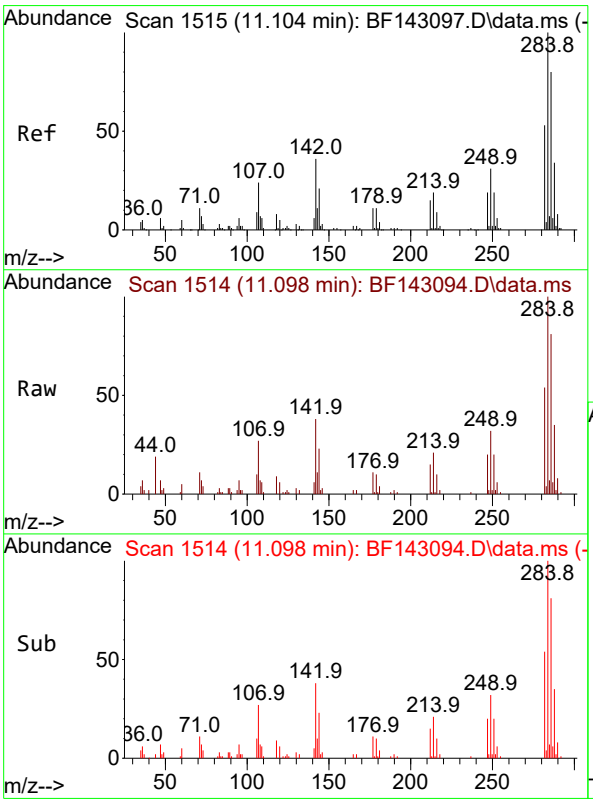
Tgt Ion:248 Resp: 2212

Ion	Ratio	Lower	Upper
248	100		
250	98.3	76.7	115.1
141	70.8	61.7	92.5

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

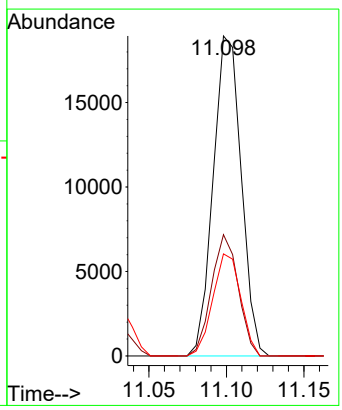


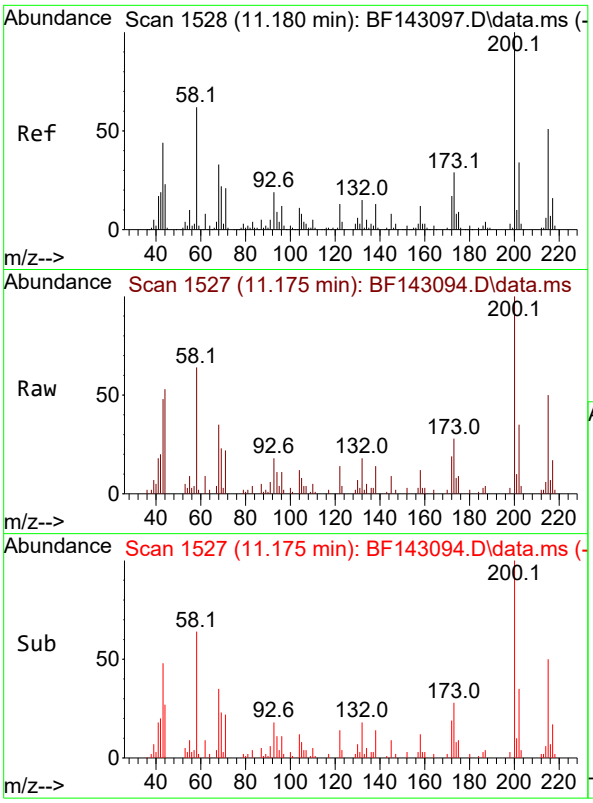


#68
Hexachlorobenzene
Concen: 5.160 ng
RT: 11.098 min Scan# 1514
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:284 Resp: 23819

Ion	Ratio	Lower	Upper
284	100		
142	37.9	28.9	43.3
249	31.9	24.6	37.0

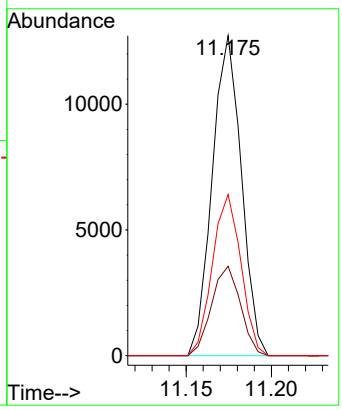




#69
Atrazine
Concen: 4.393 ng
RT: 11.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:200 Resp: 1510

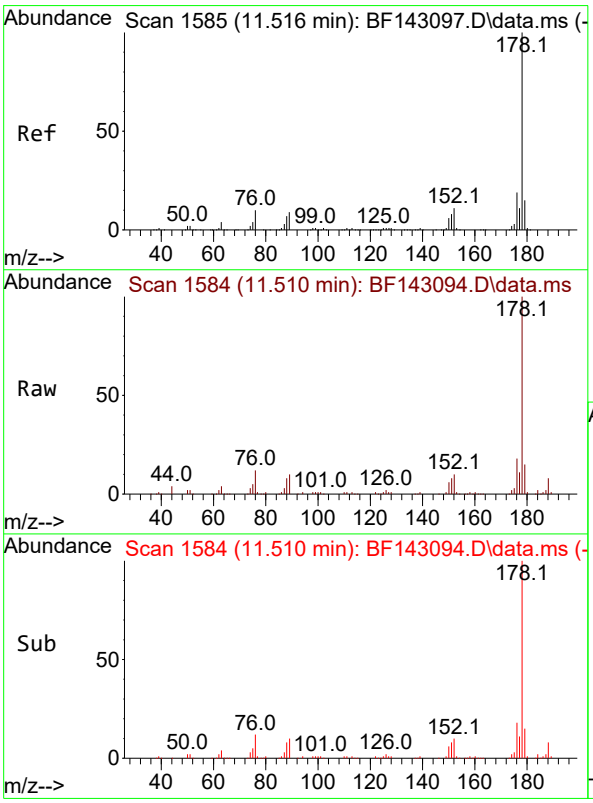
Ion	Ratio	Lower	Upper
200	100		
173	27.9	9.1	49.1
215	50.4	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

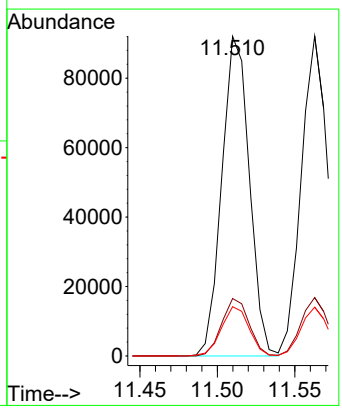
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

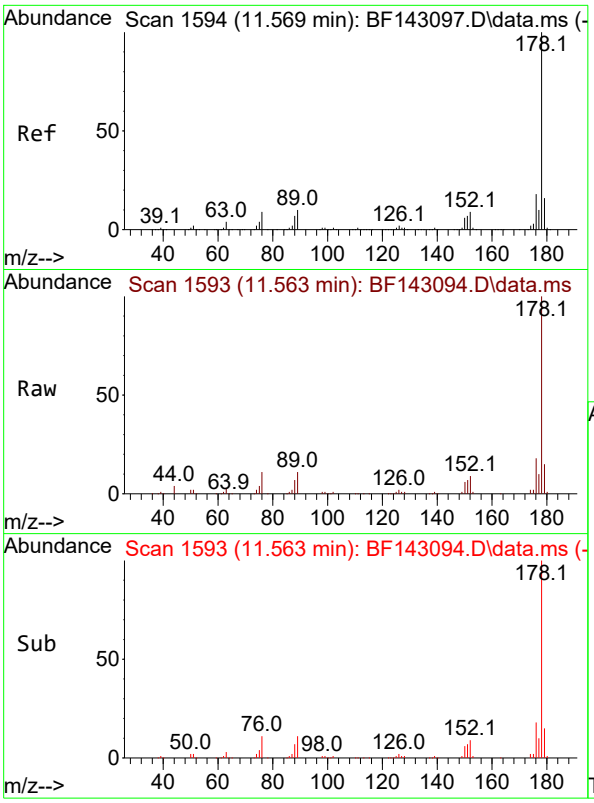


#71
Phenanthrene
Concen: 5.511 ng
RT: 11.510 min Scan# 1584
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:178 Resp: 113784

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.1	22.7
179	15.4	12.2	18.4

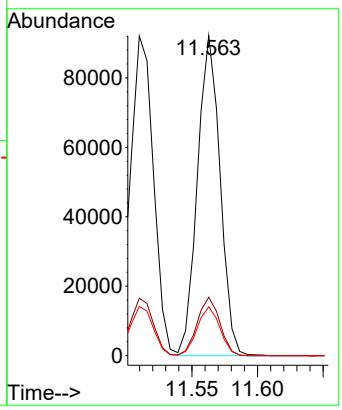




#72
Anthracene
Concen: 5.335 ng
RT: 11.563 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:178 Resp: 11077

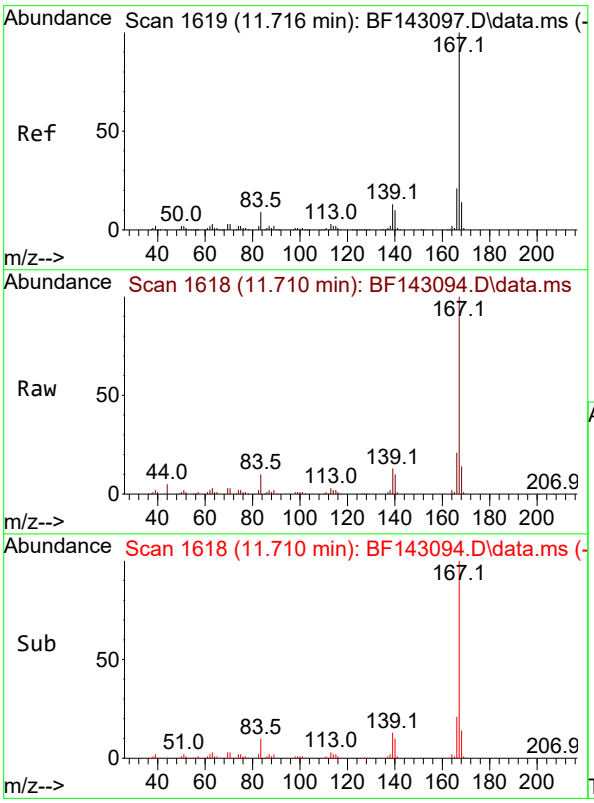
Ion	Ratio	Lower	Upper
178	100		
176	18.3	14.7	22.1
179	15.2	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

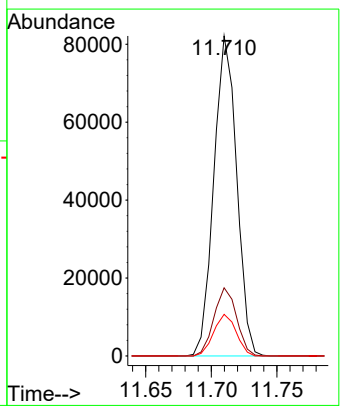
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

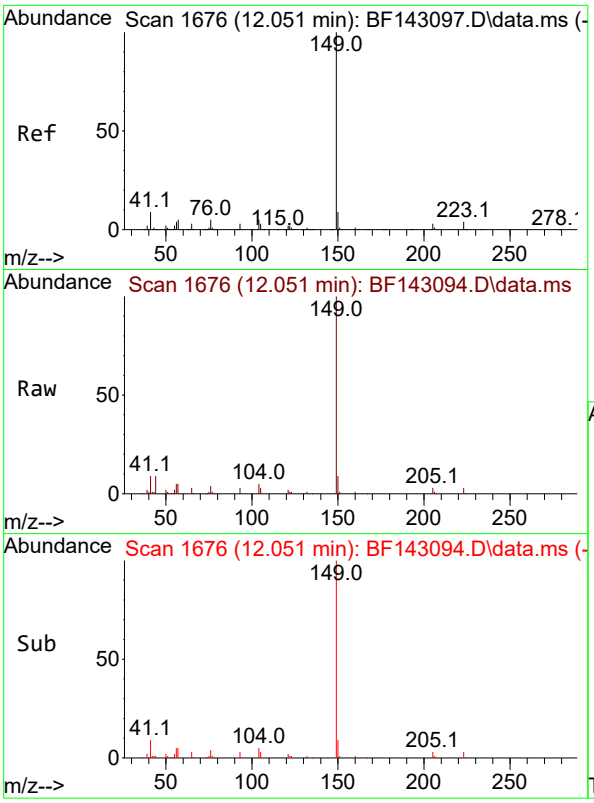


#73
Carbazole
Concen: 5.335 ng
RT: 11.710 min Scan# 1618
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:167 Resp: 99235

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.4
139	13.0	10.2	15.4

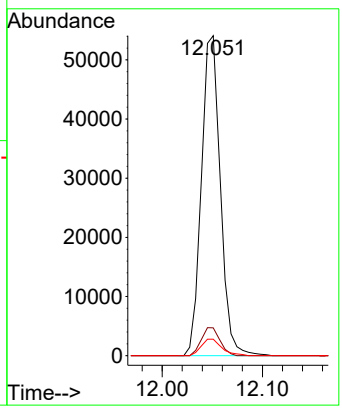




#74
Di-n-butylphthalate
Concen: 4.179 ng
RT: 12.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:149 Resp: 7135

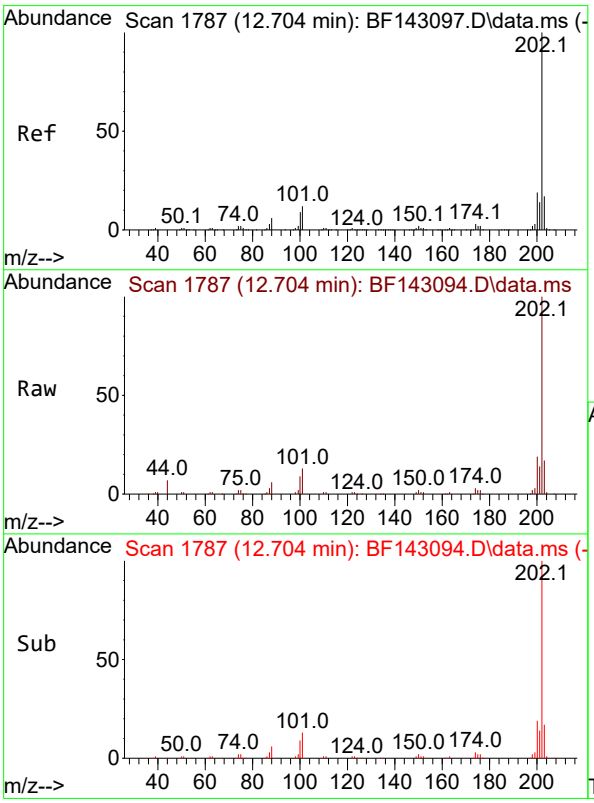
Ion	Ratio	Lower	Upper
149	100		
150	8.7	7.3	10.9
104	5.1	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

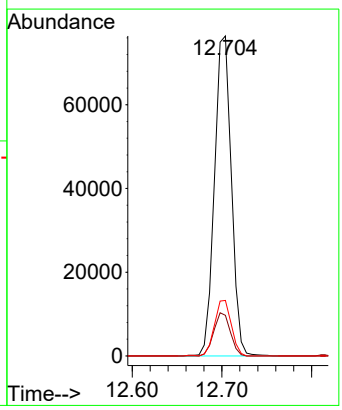
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

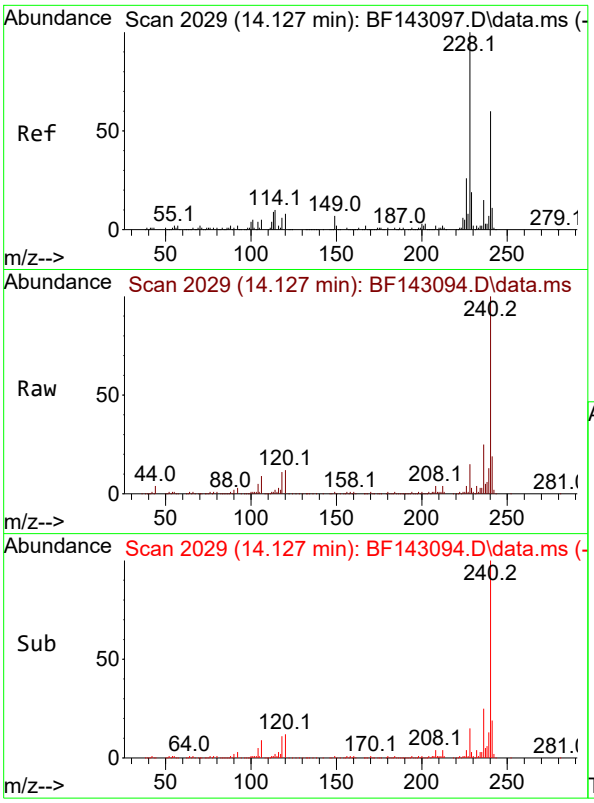


#75
Fluoranthene
Concen: 5.320 ng
RT: 12.704 min Scan# 1787
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:202 Resp: 99884

Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	32.4
203	17.4	0.0	37.4

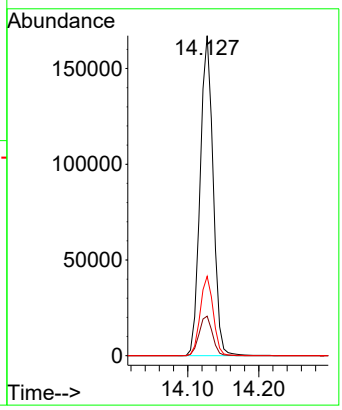




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:240 Resp: 212909

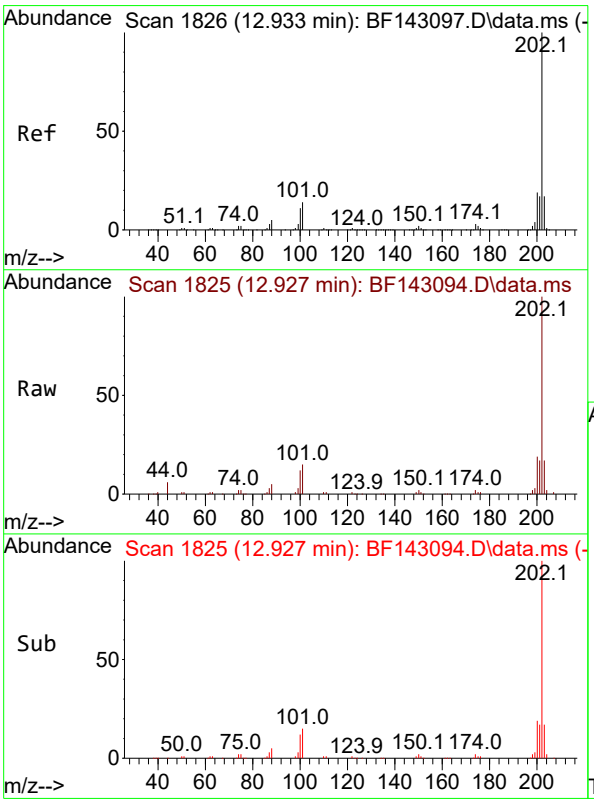
Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	24.8	20.0	30.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

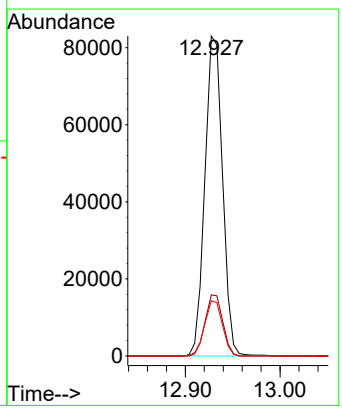
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

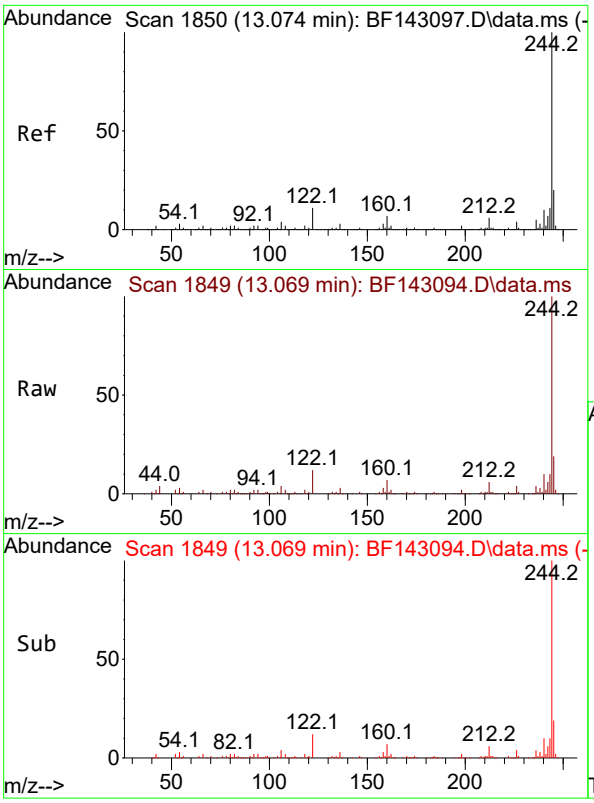


#78
Pyrene
Concen: 5.436 ng
RT: 12.927 min Scan# 1825
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:202 Resp: 107389

Ion	Ratio	Lower	Upper
202	100		
200	19.1	15.5	23.3
203	17.3	14.0	21.0

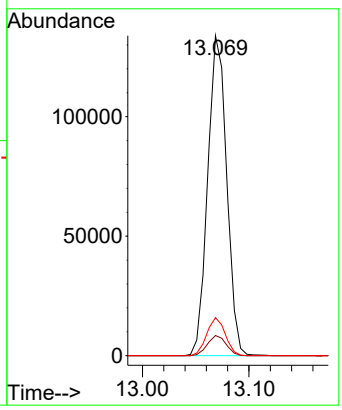




#79
Terphenyl-d14
Concen: 11.424 ng
RT: 13.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:244 Resp: 16638

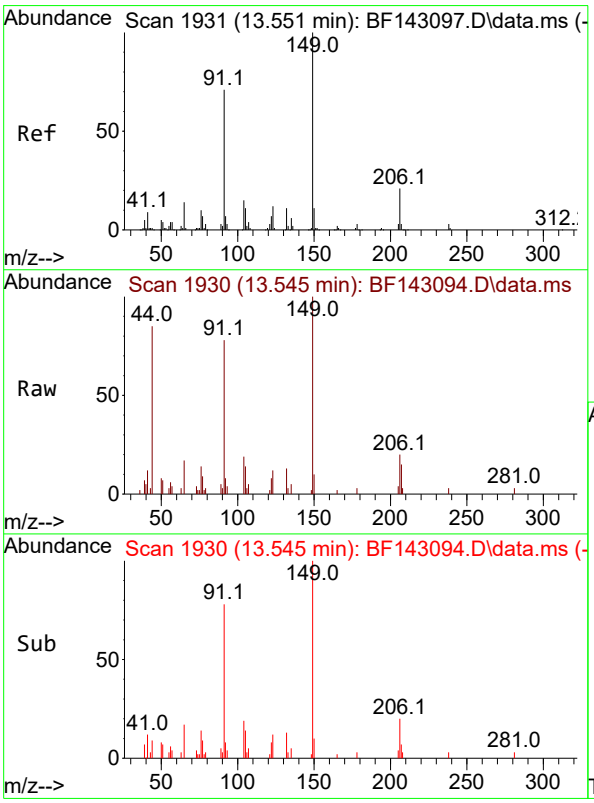
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	11.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

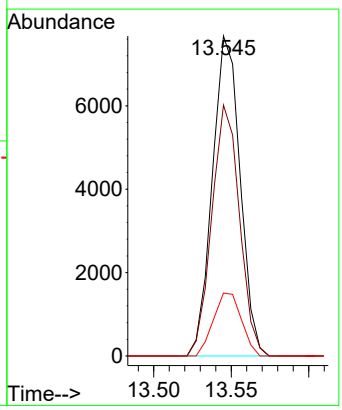
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

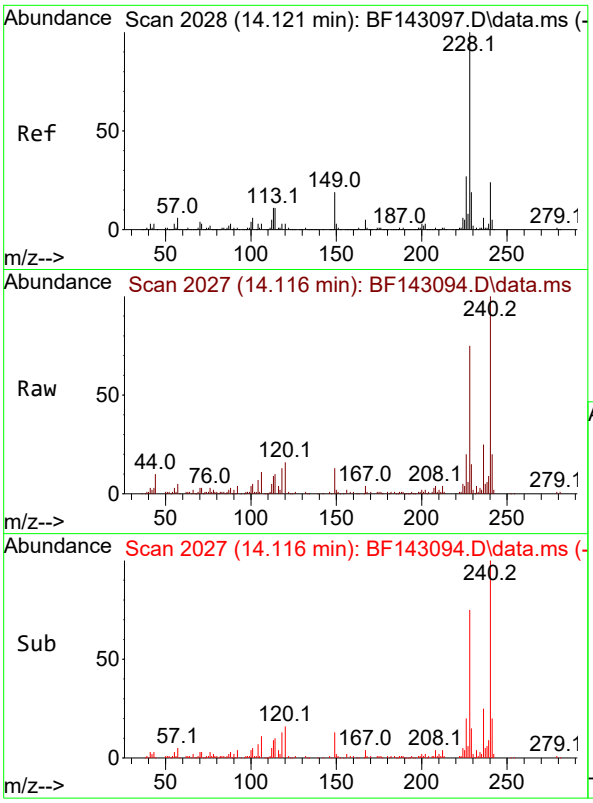


#80
Butylbenzylphthalate
Concen: 5.646 ng
RT: 13.545 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:149 Resp: 9546

Ion	Ratio	Lower	Upper
149	100		
91	78.4	57.0	85.4
206	19.7	17.2	25.8

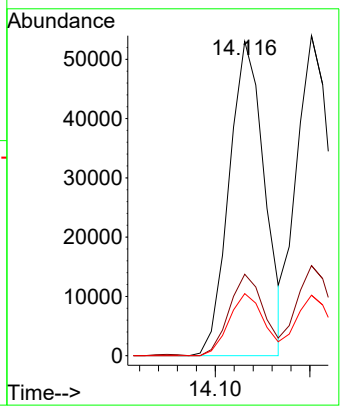




#81
Benzo(a)anthracene
Concen: 4.863 ng
RT: 14.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:228 Resp: 6899

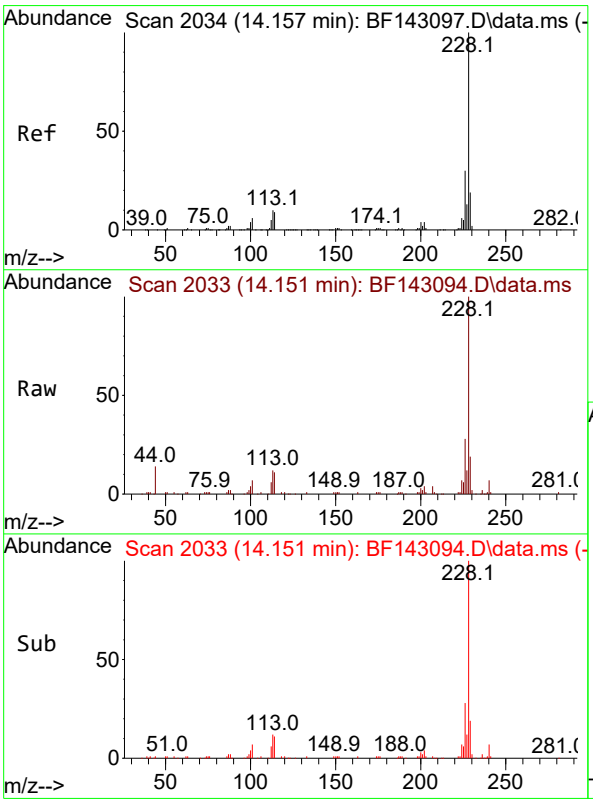
Ion	Ratio	Lower	Upper
228	100		
226	25.9	21.3	31.9
229	19.7	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

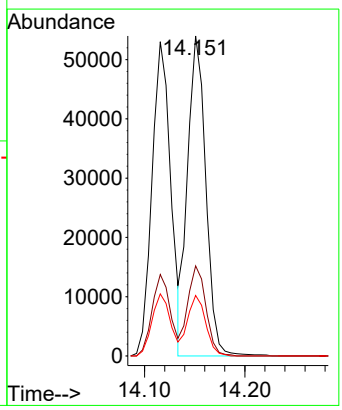
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

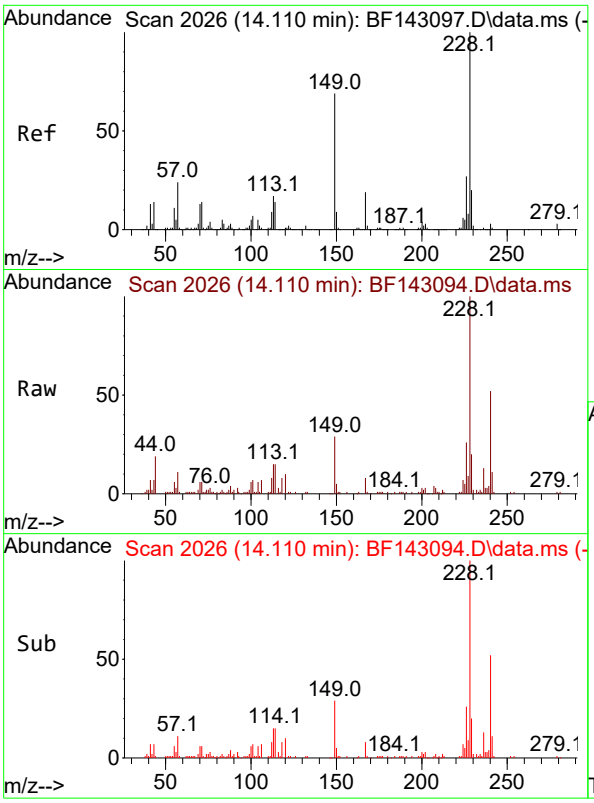


#83
Chrysene
Concen: 5.239 ng
RT: 14.151 min Scan# 2033
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:228 Resp: 68451

Ion	Ratio	Lower	Upper
228	100		
226	28.2	23.4	35.2
229	18.9	15.3	22.9

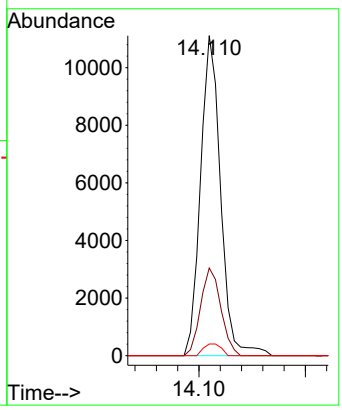




#84
Bis(2-ethylhexyl)phthalate
Concen: 5.667 ng
RT: 14.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:149 Resp: 1453

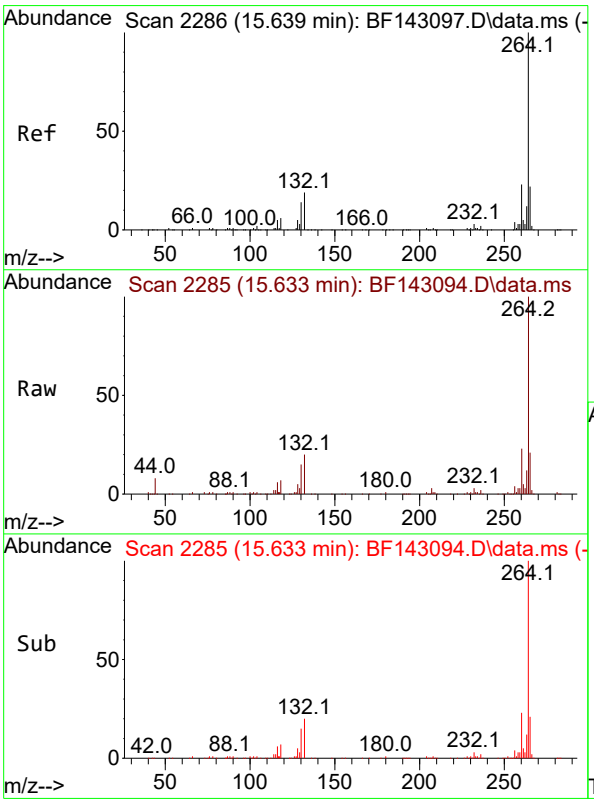
Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.9	32.9
279	3.6	3.4	5.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

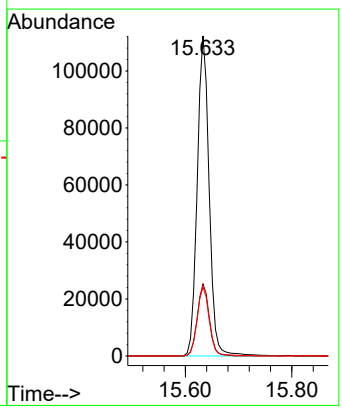
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

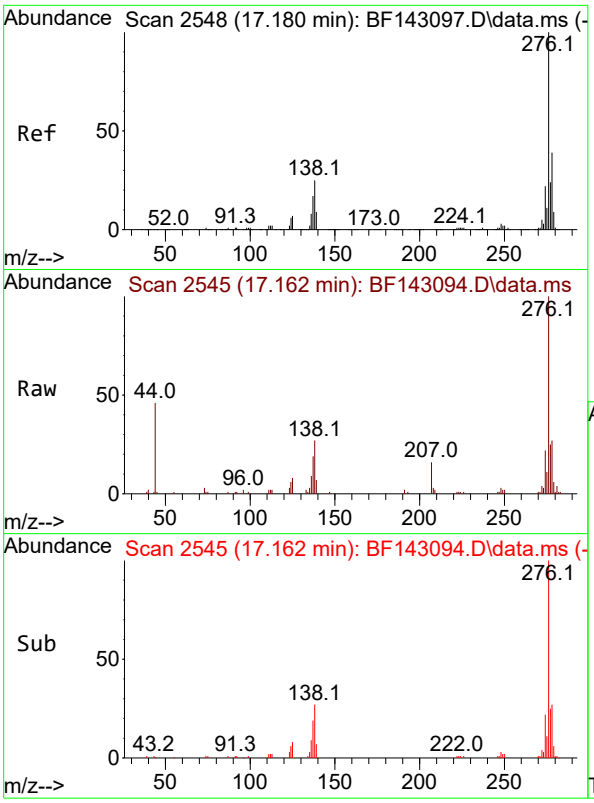


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:264 Resp: 174154

Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.5	27.7
265	21.5	17.5	26.3

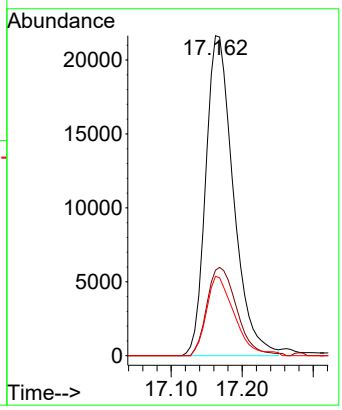




#87
Indeno(1,2,3-cd)pyrene
Concen: 4.521 ng
RT: 17.162 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:276 Resp: 5856

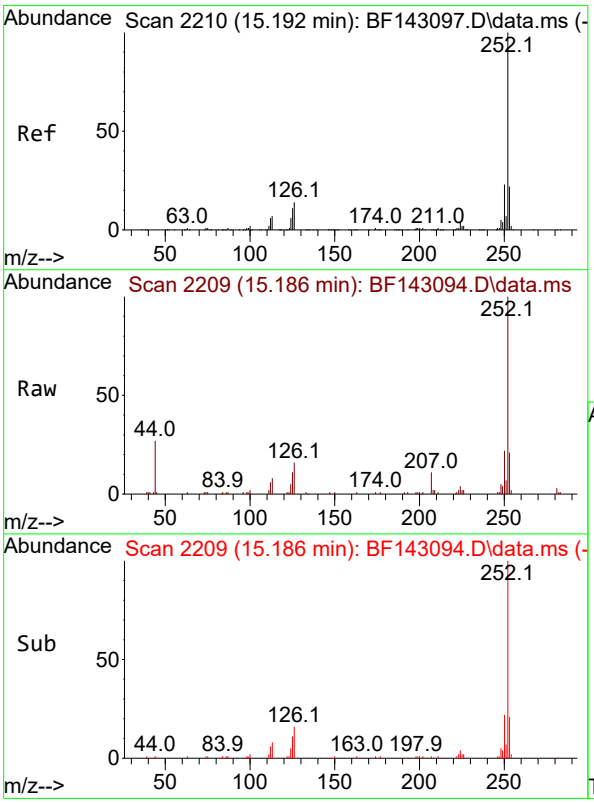
Ion	Ratio	Lower	Upper
276	100		
138	29.8	22.6	34.0
277	25.1	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

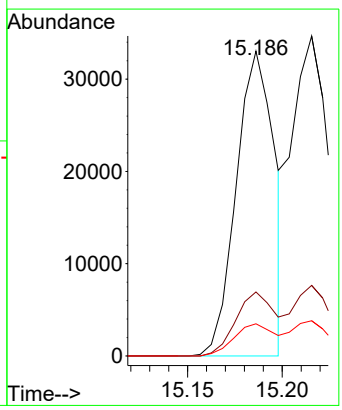
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

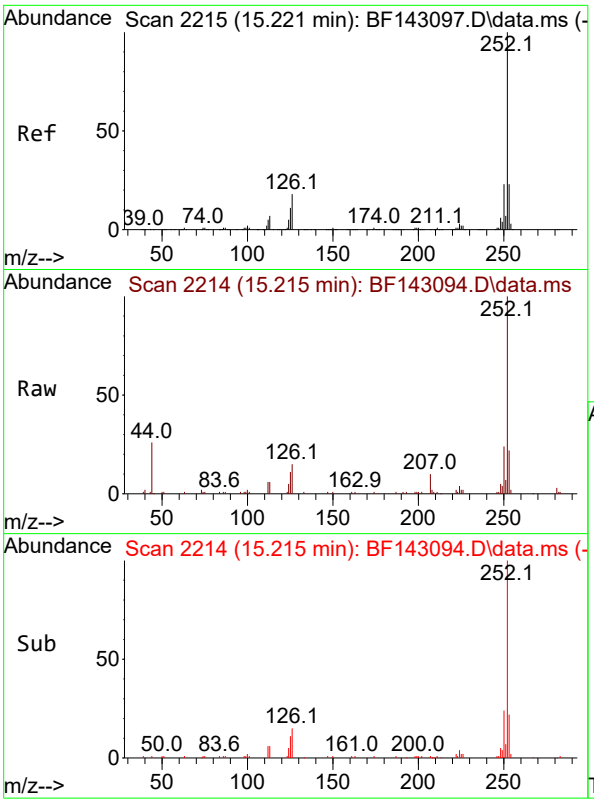


#88
Benzo(b)fluoranthene
Concen: 4.607 ng
RT: 15.186 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:252 Resp: 46276

Ion	Ratio	Lower	Upper
252	100		
253	21.0	17.5	26.3
125	10.6	8.6	13.0

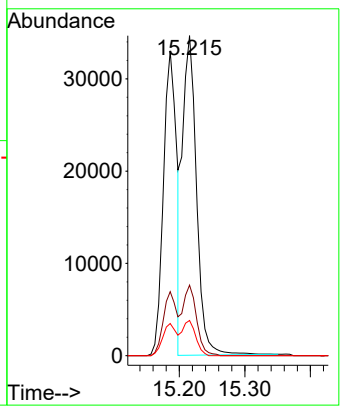




#89
Benzo(k)fluoranthene
Concen: 5.340 ng
RT: 15.215 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:252 Resp: 5117

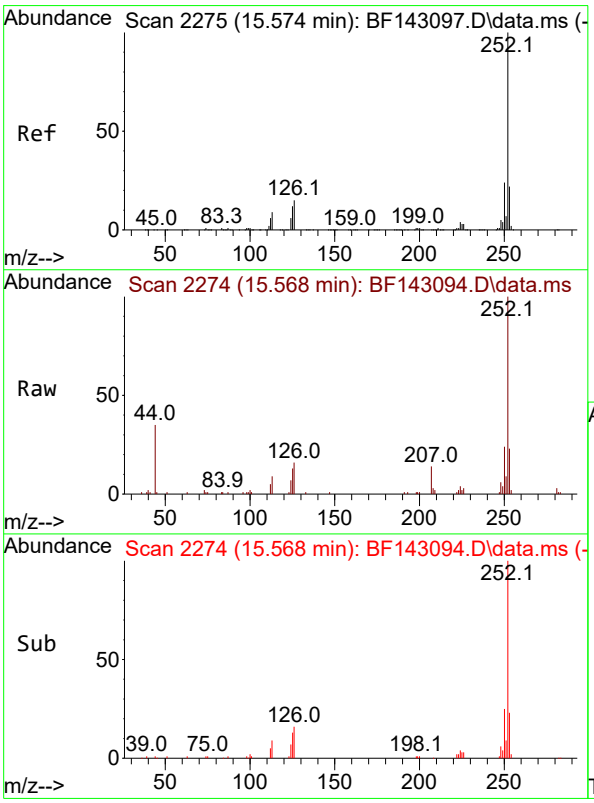
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.2
125	11.0	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

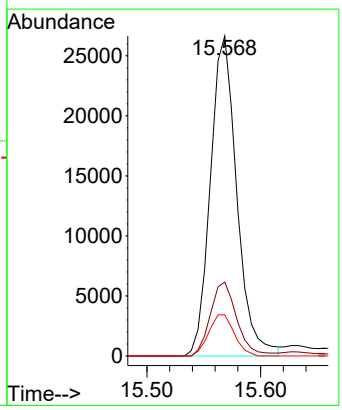
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

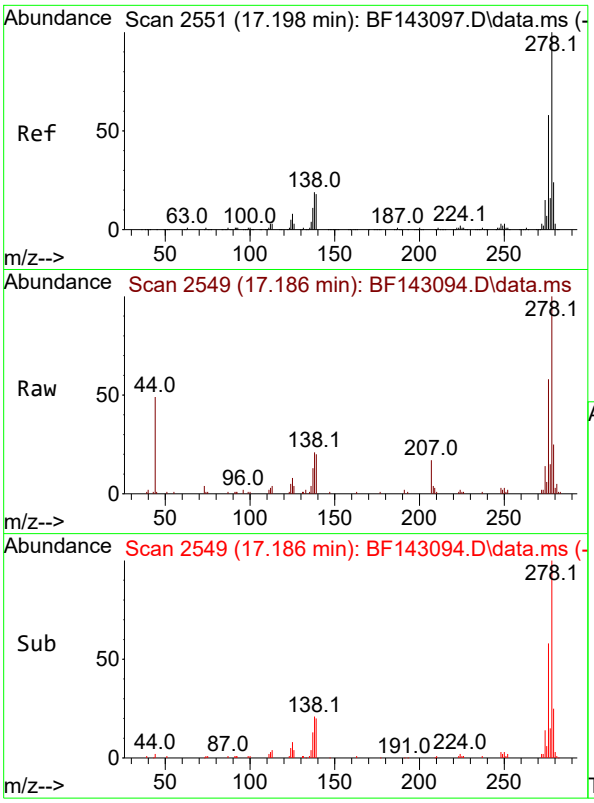


#90
Benzo(a)pyrene
Concen: 4.531 ng
RT: 15.568 min Scan# 2274
Delta R.T. -0.006 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:252 Resp: 43046

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.5	26.3
125	12.9	9.4	14.0

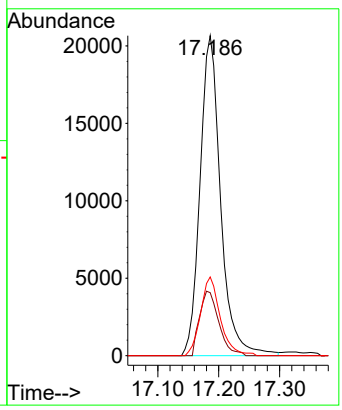




#91
Dibenzo(a,h)anthracene
Concen: 4.581 ng
RT: 17.186 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:278 Resp: 4850

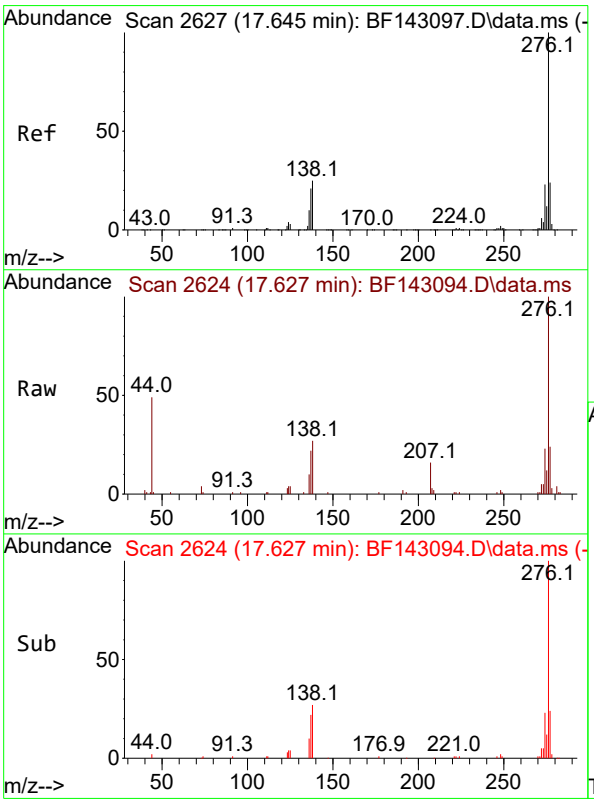
Ion	Ratio	Lower	Upper
278	100		
139	19.7	14.6	22.0
279	24.6	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

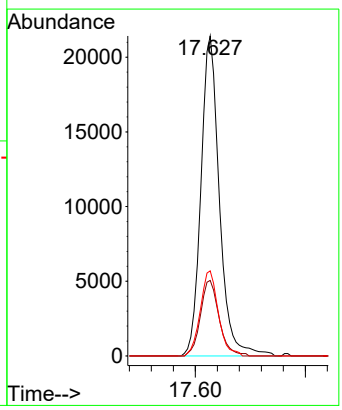
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 4.631 ng
RT: 17.627 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BF143094.D
Acq: 15 Jul 2025 13:35

Tgt Ion:276 Resp: 49989

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.2	28.8
138	26.6	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143095.D
Acq On : 15 Jul 2025 14:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:38:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.969	152	129158	20.000	ng		0.00
21) Naphthalene-d8	8.245	136	488635	20.000	ng		0.00
39) Acenaphthene-d10	10.004	164	248013	20.000	ng		0.00
64) Phenanthrene-d10	11.486	188	412977	20.000	ng		0.00
76) Chrysene-d12	14.127	240	231826	20.000	ng		0.00
86) Perylene-d12	15.633	264	195100	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.581	112	164234	20.090	ng		0.00
7) Phenol-d6	6.575	99	208774	20.317	ng		-0.01
23) Nitrobenzene-d5	7.516	82	156007m	17.910	ng		-0.01
42) 2,4,6-Tribromophenol	10.786	330	39055	17.661	ng		0.00
45) 2-Fluorobiphenyl	9.322	172	407861	21.860	ng		0.00
79) Terphenyl-d14	13.069	244	340992	21.502	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.810	88	40980	10.070	ng		98
3) Pyridine	3.581	79	99499	9.656	ng		98
4) n-Nitrosodimethylamine	3.504	42	50912	9.536	ng	#	96
6) Aniline	6.622	93	145577	10.060	ng		99
8) 2-Chlorophenol	6.745	128	78009	9.498	ng		98
9) Benzaldehyde	6.510	77	77218	9.862	ng		97
10) Phenol	6.587	94	112508	10.114	ng		98
11) bis(2-Chloroethyl)ether	6.693	93	88047	10.224	ng		99
12) 1,3-Dichlorobenzene	6.910	146	95695	10.313	ng		99
13) 1,4-Dichlorobenzene	6.987	146	95134	10.191	ng		99
14) 1,2-Dichlorobenzene	7.140	146	90960	10.218	ng		100
15) Benzyl Alcohol	7.092	79	72743	9.554	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.240	45	163494	10.299	ng		99
17) 2-Methylphenol	7.204	107	69808	9.849	ng		99
18) Hexachloroethane	7.487	117	28400	9.345	ng		98
19) n-Nitroso-di-n-propyla...	7.363	70	63831	10.139	ng		95
20) 3+4-Methylphenols	7.351	107	90318	10.391	ng	#	83
22) Acetophenone	7.363	105	126127	10.708	ng		95
24) Nitrobenzene	7.540	77	77369	9.201	ng		97
25) Isophorone	7.775	82	167986	9.978	ng		99
26) 2-Nitrophenol	7.857	139	18432	8.966	ng		97
27) 2,4-Dimethylphenol	7.887	122	78706	10.072	ng		98
28) bis(2-Chloroethoxy)met...	7.987	93	106045	10.387	ng		98
29) 2,4-Dichlorophenol	8.092	162	62164	9.724	ng		99
30) 1,2,4-Trichlorobenzene	8.187	180	74581	10.280	ng		98
31) Naphthalene	8.269	128	256031	10.551	ng		99
32) Benzoic acid	7.939	122	19661m	10.880	ng		
33) 4-Chloroaniline	8.310	127	102550	10.510	ng		96
34) Hexachlorobutadiene	8.392	225	42959	9.901	ng		97
35) Caprolactam	8.634	113	17855	8.944	ng		99
36) 4-Chloro-3-methylphenol	8.775	107	70747	9.935	ng		97
37) 2-Methylnaphthalene	8.957	142	152822	10.557	ng		99
38) 1-Methylnaphthalene	9.057	142	161228	10.739	ng		99
40) 1,2,4,5-Tetrachloroben...	9.128	216	74348	10.287	ng		99
41) Hexachlorocyclopentadiene	9.122	237	31472	7.854	ng		100
43) 2,4,6-Trichlorophenol	9.234	196	38748	8.628	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143095.D
Acq On : 15 Jul 2025 14:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:38:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.263	196	45455	9.653	ng		98
46) 1,1'-Biphenyl	9.422	154	209259	10.580	ng		99
47) 2-Chloronaphthalene	9.445	162	149175	10.267	ng		99
48) 2-Nitroaniline	9.534	65	27816	9.163	ng		98
49) Acenaphthylene	9.863	152	249435	10.302	ng		100
50) Dimethylphthalate	9.710	163	156072	10.003	ng		100
51) 2,6-Dinitrotoluene	9.769	165	21789	9.451	ng		96
52) Acenaphthene	10.033	154	149318	10.451	ng		100
53) 3-Nitroaniline	9.939	138	28105	8.336	ng		98
54) 2,4-Dinitrophenol	10.039	184	4729	10.239	ng	#	1
55) Dibenzofuran	10.204	168	222555	10.451	ng		98
56) 4-Nitrophenol	10.081	139	20334	7.589	ng		97
57) 2,4-Dinitrotoluene	10.175	165	24420	9.293	ng	#	95
58) Fluorene	10.551	166	171975	10.771	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.322	232	33995	9.084	ng		99
60) Diethylphthalate	10.416	149	150934	10.027	ng		100
61) 4-Chlorophenyl-phenyle...	10.545	204	79583	10.400	ng		99
62) 4-Nitroaniline	10.545	138	25757	8.785	ng		96
63) Azobenzene	10.698	77	173437	10.418	ng		98
65) 4,6-Dinitro-2-methylph...	10.581	198	7158	10.290	ng		96
66) n-Nitrosodiphenylamine	10.651	169	146433	10.094	ng		98
67) 4-Bromophenyl-phenylether	11.033	248	45279	9.641	ng		97
68) Hexachlorobenzene	11.104	284	49035	9.840	ng		96
69) Atrazine	11.175	200	35230	9.492	ng		99
70) Pentachlorophenol	11.286	266	20245	7.405	ng		97
71) Phenanthrene	11.510	178	234601	10.526	ng		100
72) Anthracene	11.563	178	232459	10.372	ng		99
73) Carbazole	11.710	167	211853	10.551	ng		99
74) Di-n-butylphthalate	12.051	149	174639	9.475	ng		100
75) Fluoranthene	12.704	202	217346	10.725	ng		99
77) Benzidine	12.816	184	76979	9.747	ng		99
78) Pyrene	12.927	202	226752	10.542	ng		99
80) Butylbenzylphthalate	13.545	149	26977	9.210	ng		94
81) Benzo(a)anthracene	14.116	228	151099	9.781	ng		99
82) 3,3'-Dichlorobenzidine	14.074	252	36435	8.122	ng		99
83) Chrysene	14.151	228	142990	10.050	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	39724	9.073	ng		97
85) Di-n-octyl phthalate	14.727	149	54952	10.526	ng		96
87) Indeno(1,2,3-cd)pyrene	17.168	276	137620	9.484	ng		100
88) Benzo(b)fluoranthene	15.186	252	116154	10.321	ng		100
89) Benzo(k)fluoranthene	15.216	252	103994	9.686	ng		98
90) Benzo(a)pyrene	15.568	252	99366	9.336	ng		99
91) Dibenzo(a,h)anthracene	17.186	278	113316	9.553	ng		99
92) Benzo(g,h,i)perylene	17.627	276	115816	9.577	ng		98

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

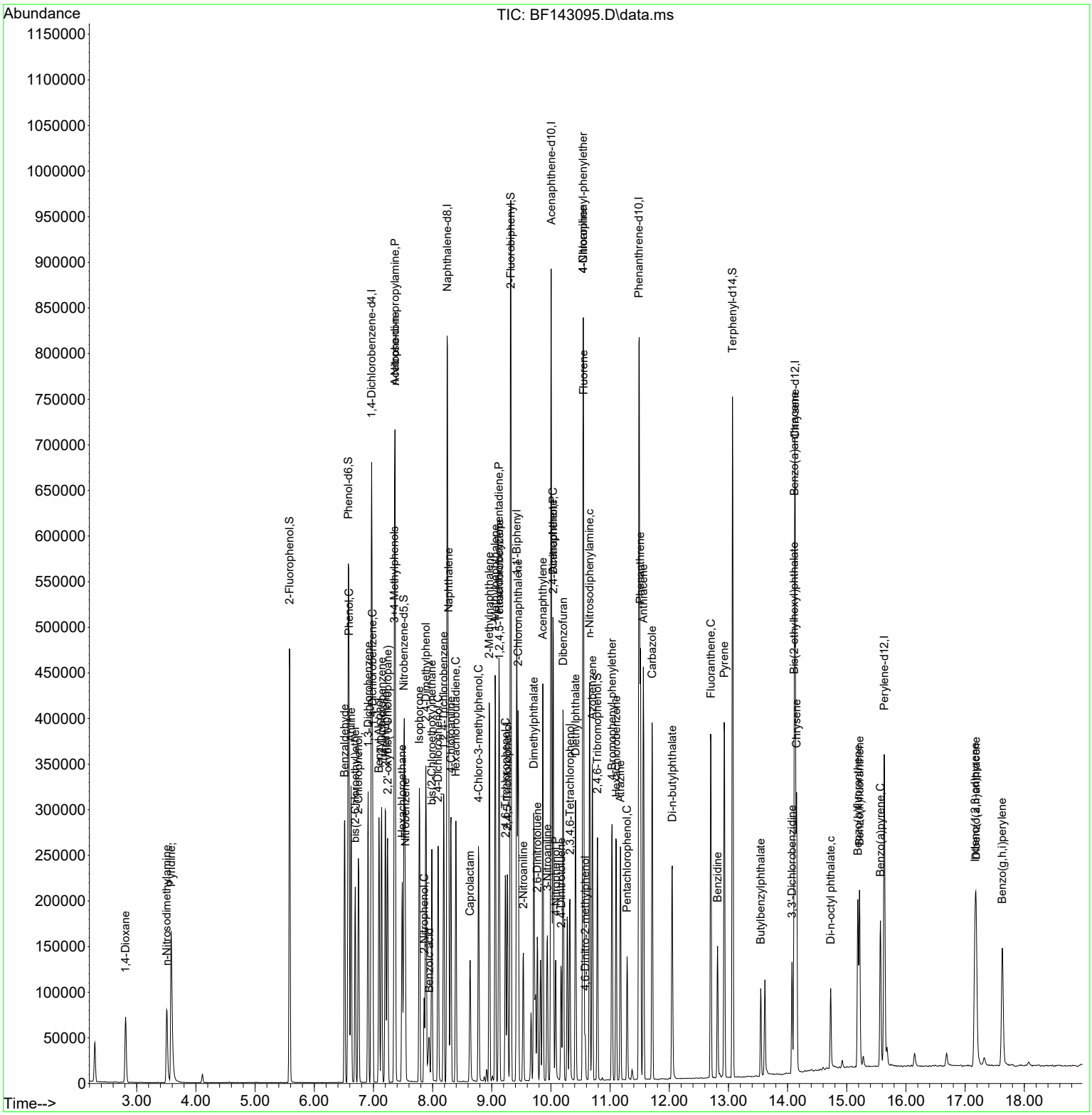
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143095.D
Acq On : 15 Jul 2025 14:05
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

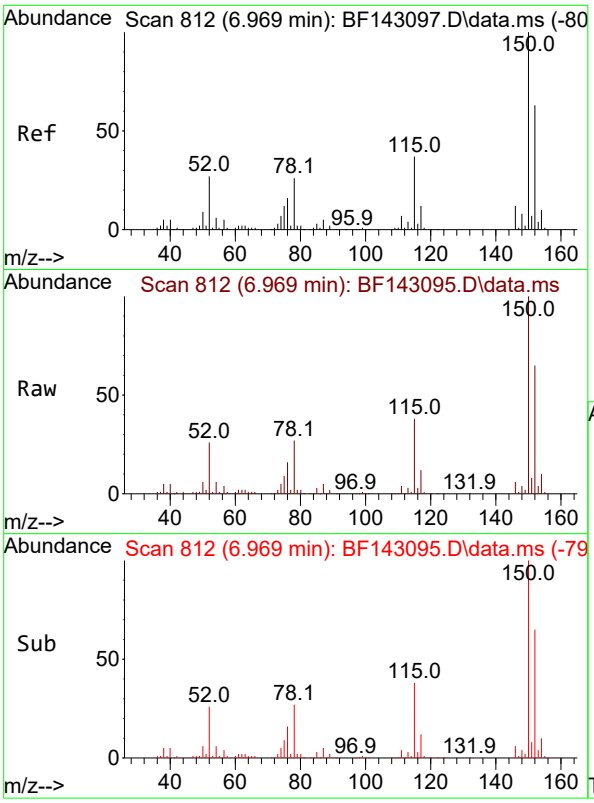
Quant Time: Jul 15 17:38:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

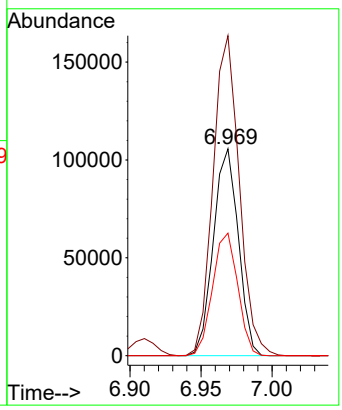




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:152 Resp: 12915

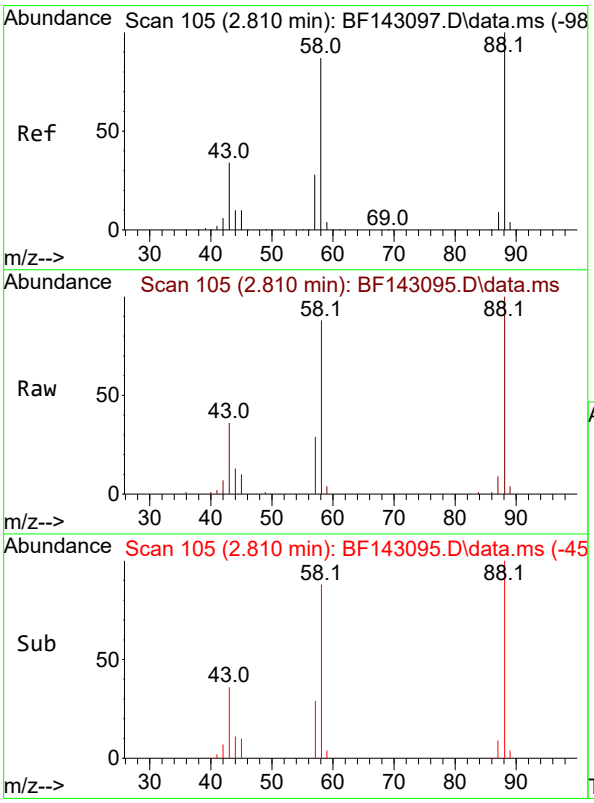
Ion	Ratio	Lower	Upper
152	100		
150	154.7	126.5	189.7
115	59.3	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

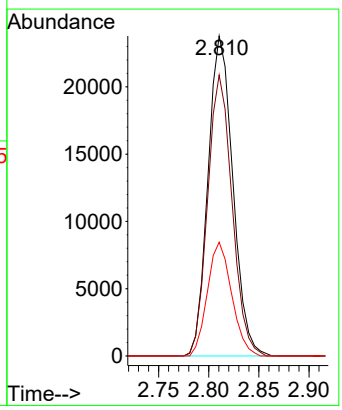
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

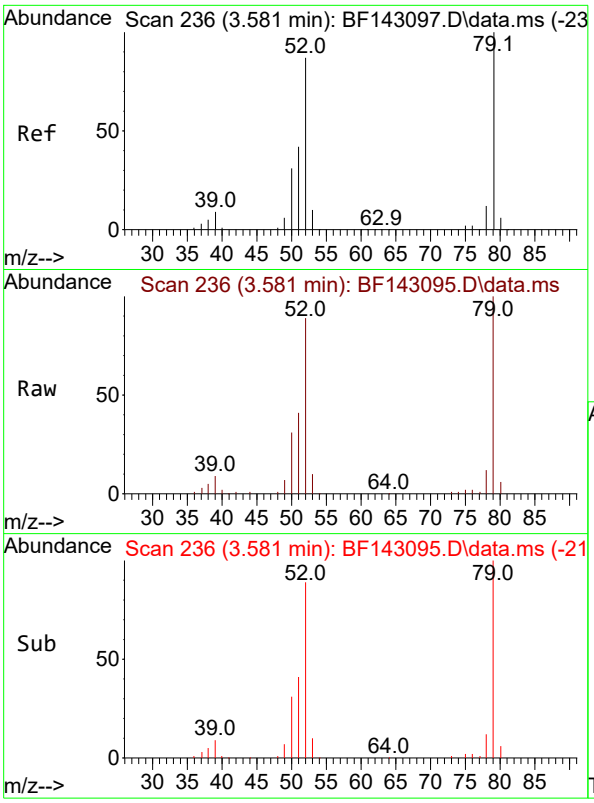


#2
1,4-Dioxane
Concen: 10.070 ng
RT: 2.810 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 88 Resp: 40980

Ion	Ratio	Lower	Upper
88	100		
58	86.3	70.5	105.7
43	34.8	27.3	40.9

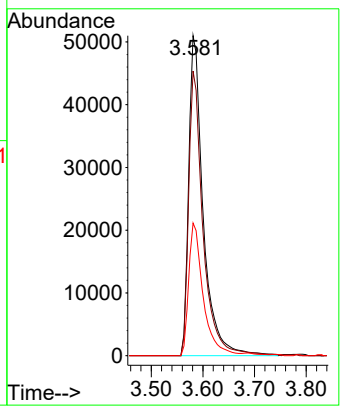




#3
Pyridine
Concen: 9.656 ng
RT: 3.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 79 Resp: 9949

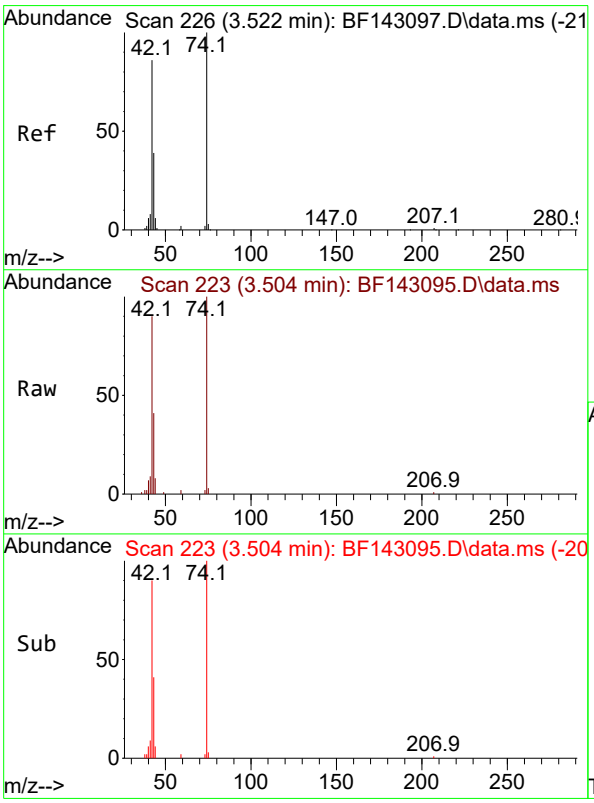
Ion	Ratio	Lower	Upper
79	100		
52	88.9	69.2	103.8
51	41.5	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

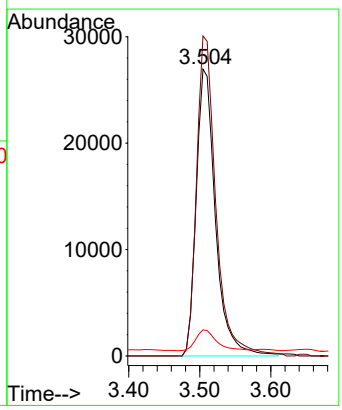
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

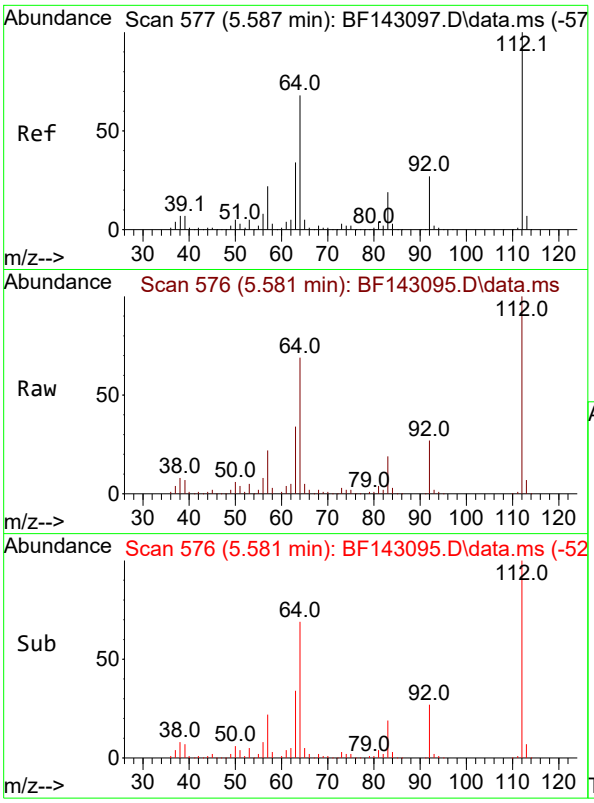


#4
n-Nitrosodimethylamine
Concen: 9.536 ng
RT: 3.504 min Scan# 223
Delta R.T. -0.018 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 42 Resp: 50912

Ion	Ratio	Lower	Upper
42	100		
74	111.6	92.8	139.2
44	9.1	5.8	8.6#





#5
2-Fluorophenol
Concen: 20.090 ng
RT: 5.581 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

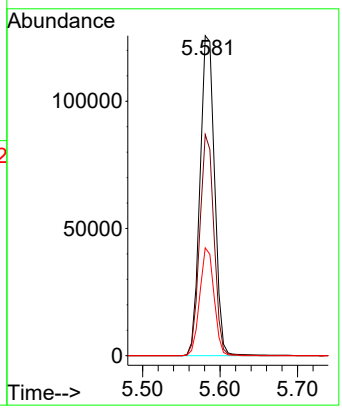
Tgt Ion:112 Resp: 16423

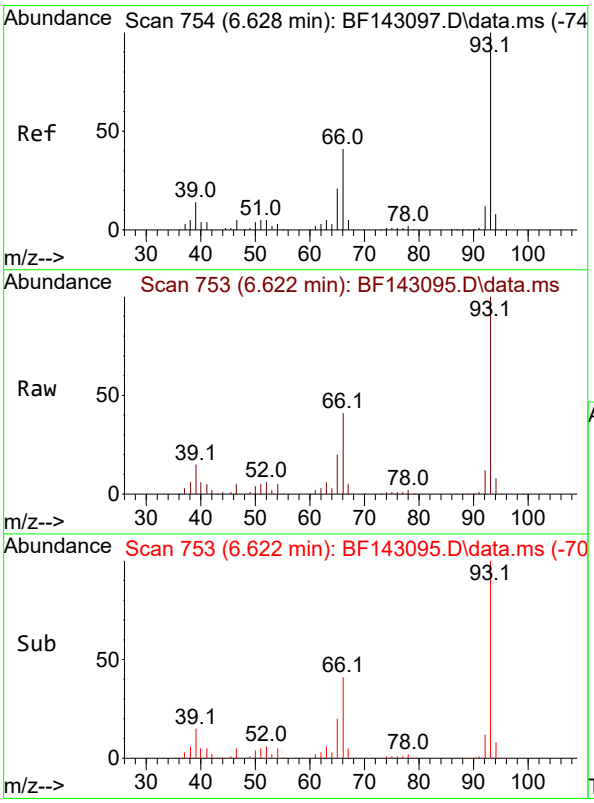
Ion	Ratio	Lower	Upper
112	100		
64	69.1	54.6	82.0
63	33.7	27.3	40.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

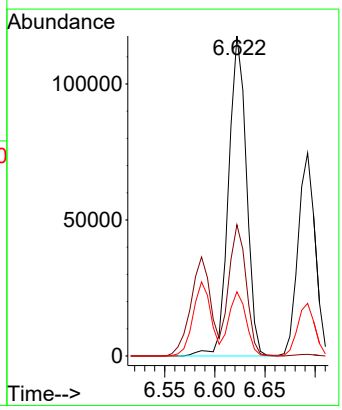


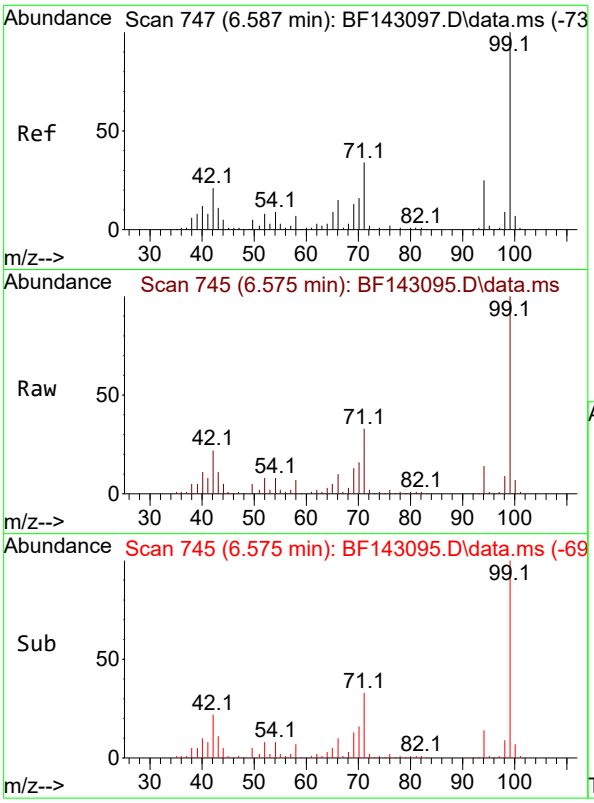


#6
Aniline
Concen: 10.060 ng
RT: 6.622 min Scan# 753
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 93 Resp: 145577

Ion	Ratio	Lower	Upper
93	100		
66	41.0	33.1	49.7
65	20.1	16.9	25.3





#7
Phenol-d6
Concen: 20.317 ng
RT: 6.575 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

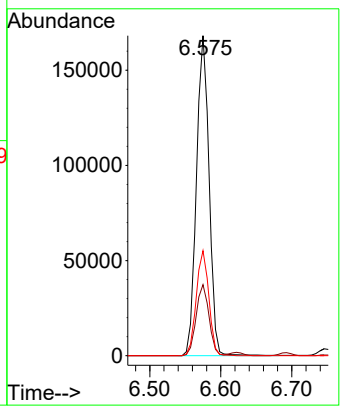
Tgt Ion: 99 Resp: 20877

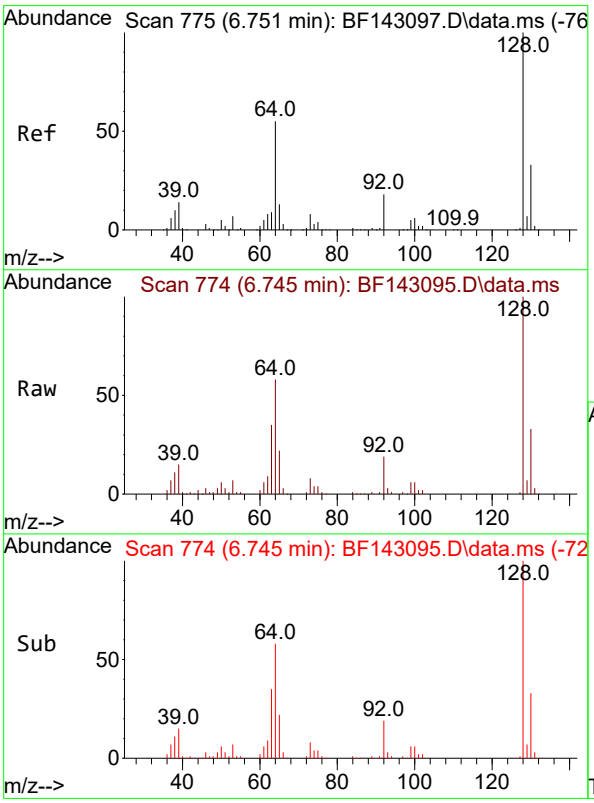
Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.2	25.8
71	32.8	27.4	41.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

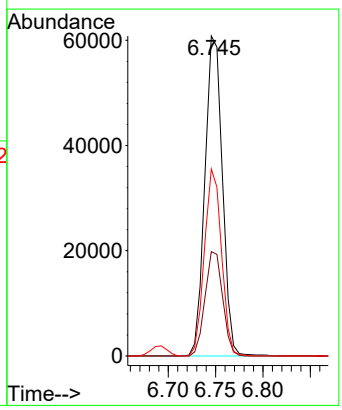


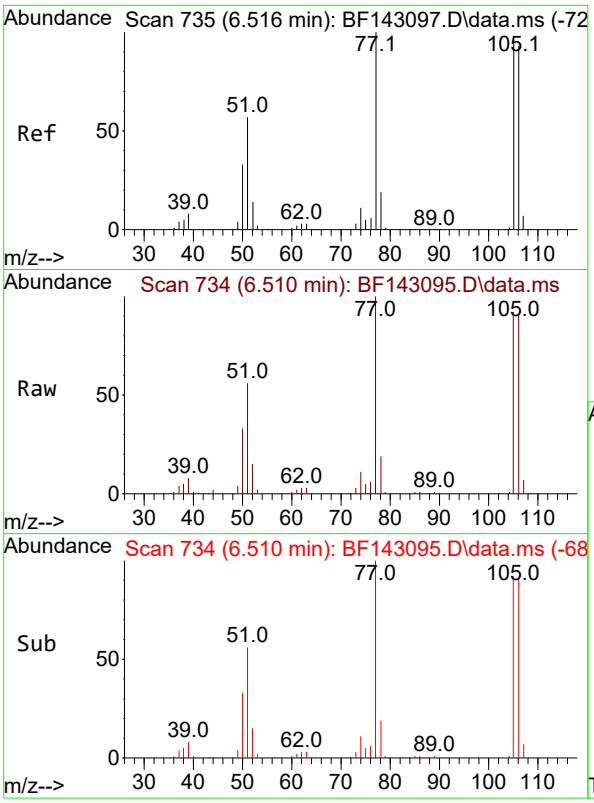


#8
2-Chlorophenol
Concen: 9.498 ng
RT: 6.745 min Scan# 774
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:128 Resp: 78009

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.8	52.8
64	58.5	36.1	76.1

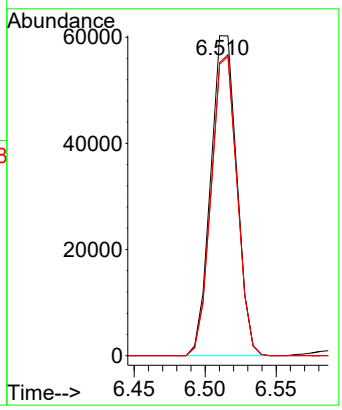




#9
Benzaldehyde
Concen: 9.862 ng
RT: 6.510 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 77 Resp: 7721

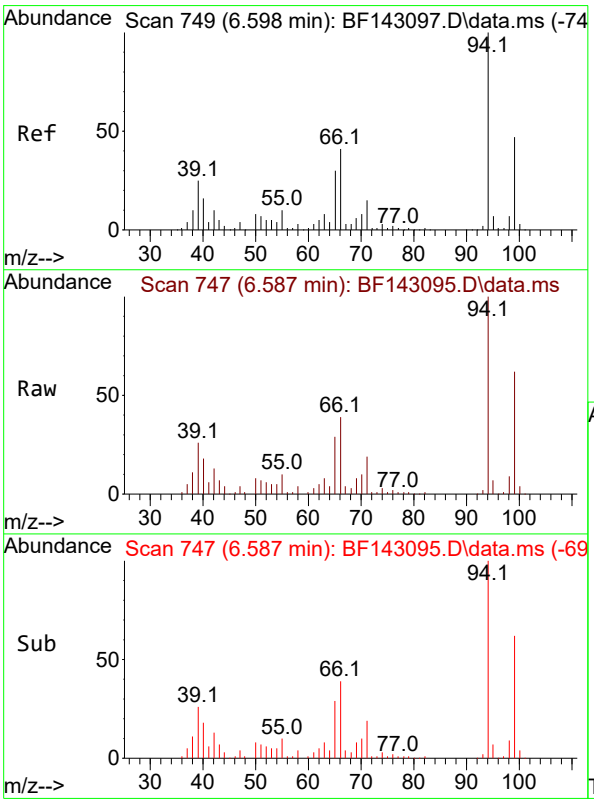
Ion	Ratio	Lower	Upper
77	100		
105	91.6	76.3	116.3
106	91.1	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

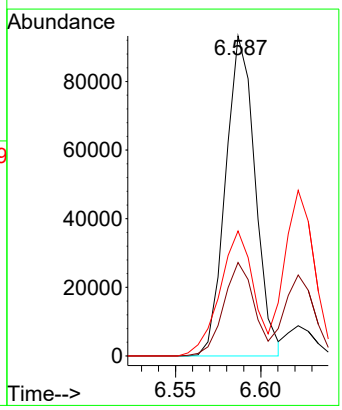
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

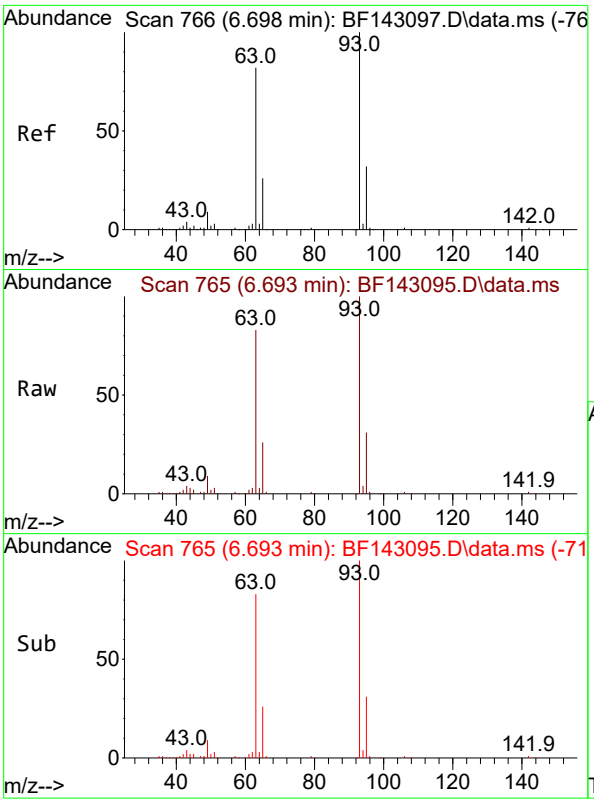


#10
Phenol
Concen: 10.114 ng
RT: 6.587 min Scan# 747
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 94 Resp: 112508

Ion	Ratio	Lower	Upper
94	100		
65	29.2	9.8	49.8
66	39.1	20.5	60.5

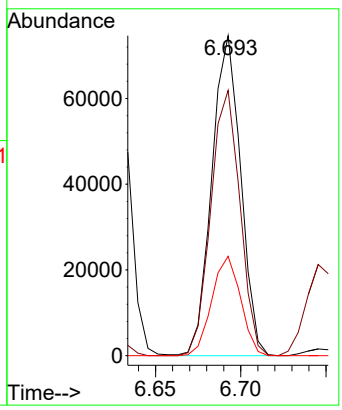




#11
bis(2-Chloroethyl)ether
Concen: 10.224 ng
RT: 6.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 93 Resp: 8804

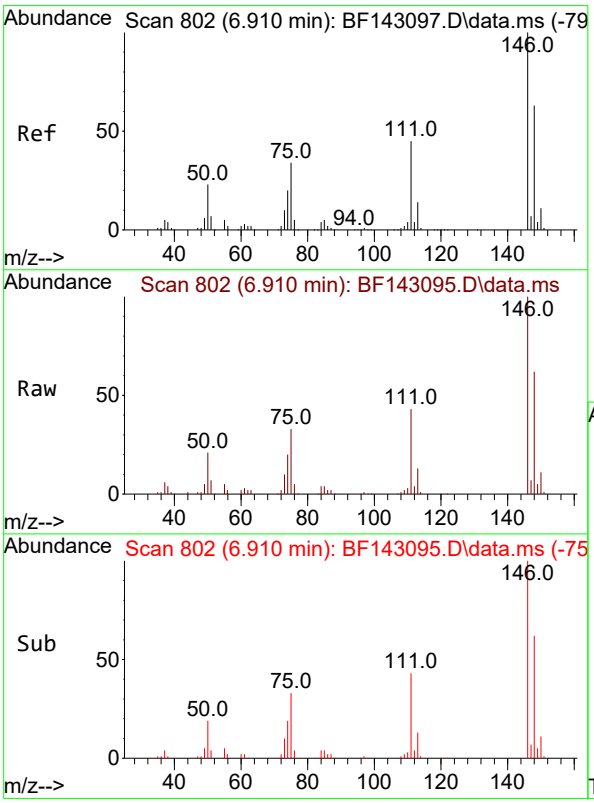
Ion	Ratio	Lower	Upper
93	100		
63	82.9	61.9	101.9
95	31.1	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

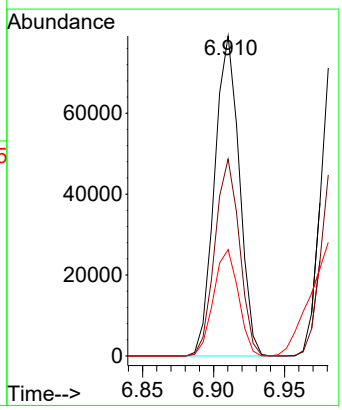
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

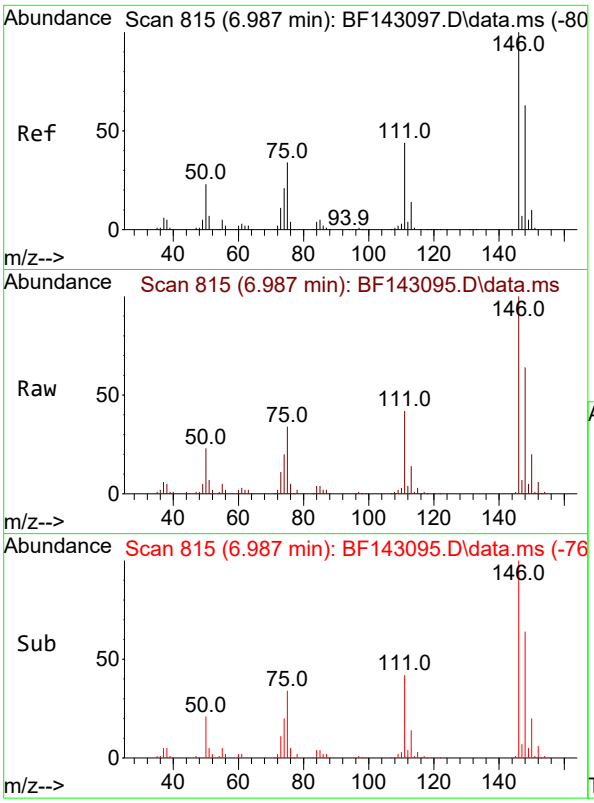


#12
1,3-Dichlorobenzene
Concen: 10.313 ng
RT: 6.910 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:146 Resp: 95695

Ion	Ratio	Lower	Upper
146	100		
148	61.6	50.1	75.1
75	33.3	27.4	41.0

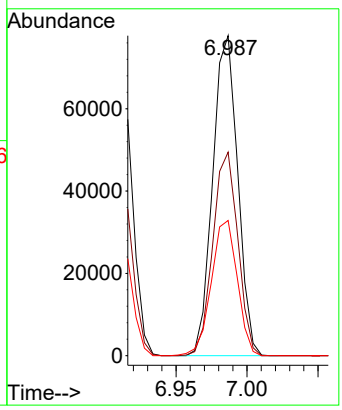




#13
1,4-Dichlorobenzene
Concen: 10.191 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:146 Resp: 9513

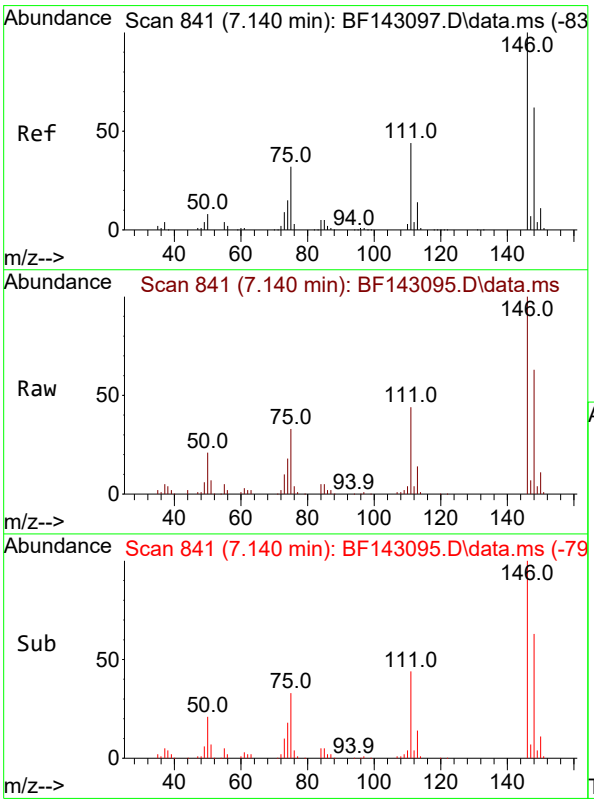
Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.6	76.0
111	42.2	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

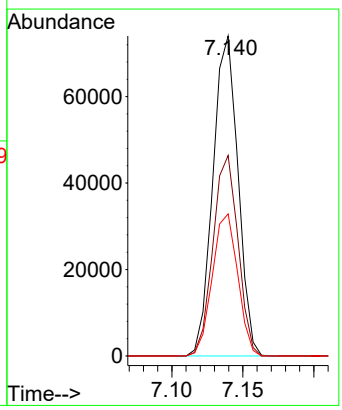
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

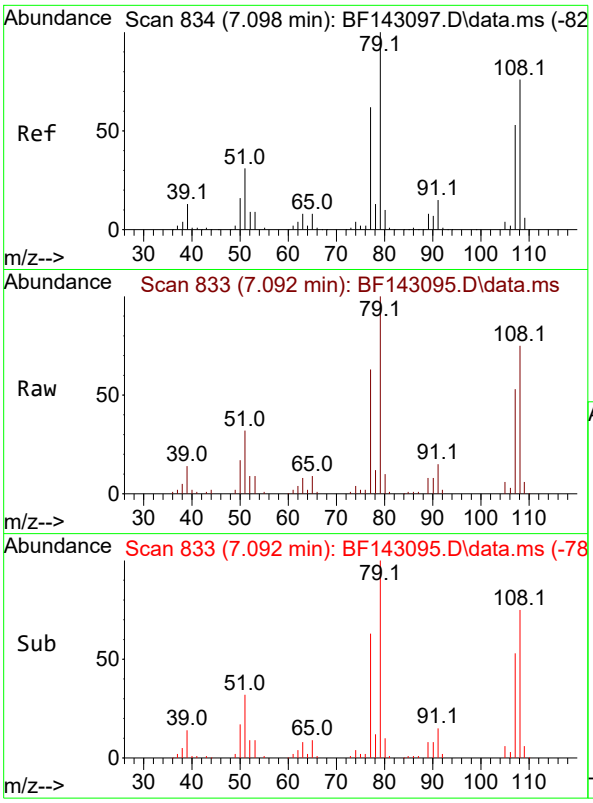


#14
1,2-Dichlorobenzene
Concen: 10.218 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:146 Resp: 90960

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.8	74.6
111	44.4	35.4	53.0

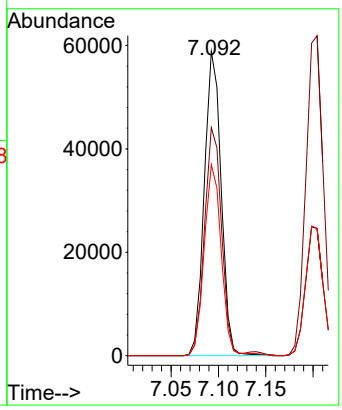




#15
Benzyl Alcohol
Concen: 9.554 ng
RT: 7.092 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 79 Resp: 7274

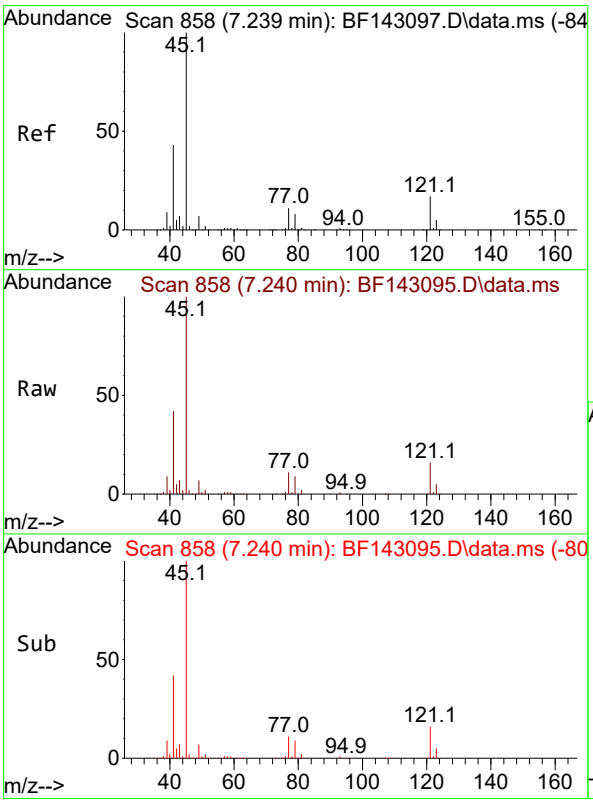
Ion	Ratio	Lower	Upper
79	100		
108	74.9	61.1	91.7
77	62.8	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

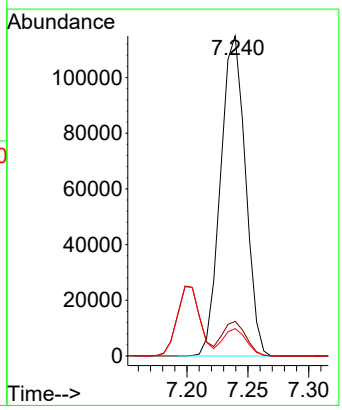
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

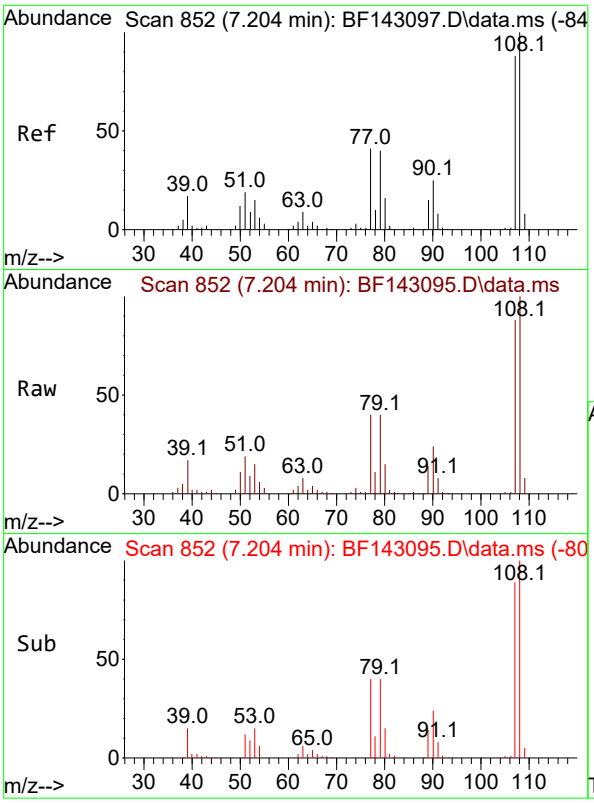


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.299 ng
RT: 7.240 min Scan# 858
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 45 Resp: 163494

Ion	Ratio	Lower	Upper
45	100		
77	10.8	0.0	31.1
79	8.6	0.0	28.4

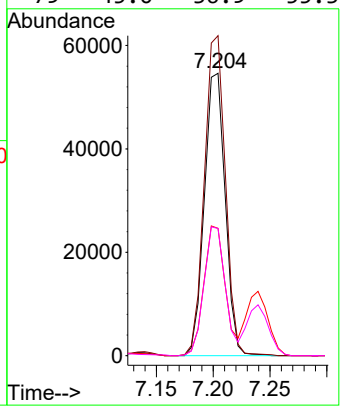




#17
2-Methylphenol
Concen: 9.849 ng
RT: 7.204 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:107 Resp: 6980

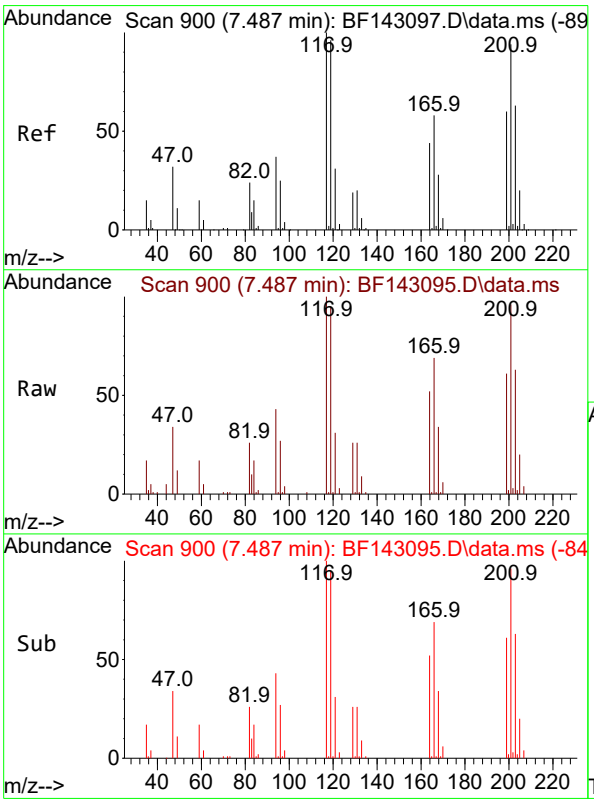
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.9	136.3
77	45.1	37.5	56.3
79	45.0	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

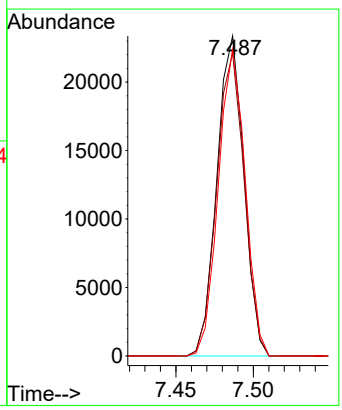
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

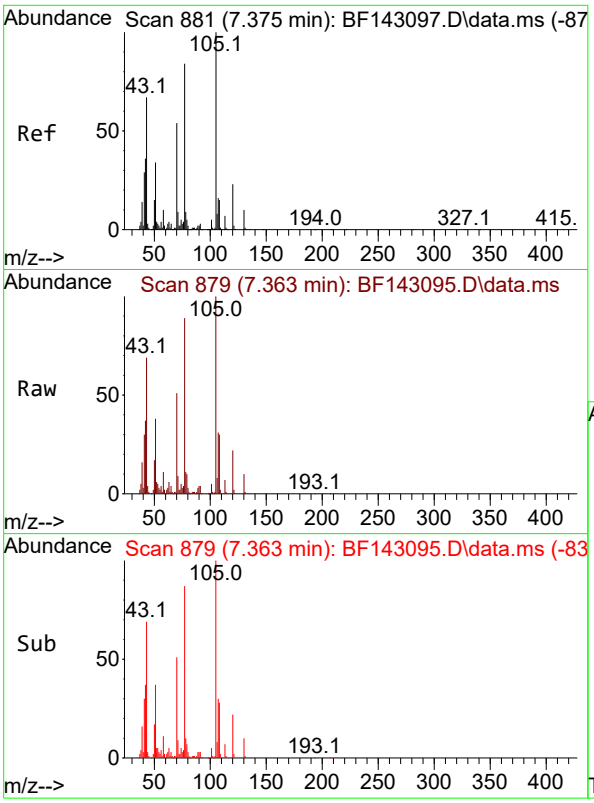


#18
Hexachloroethane
Concen: 9.345 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:117 Resp: 28400

Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.7	115.1
201	95.9	75.0	112.4

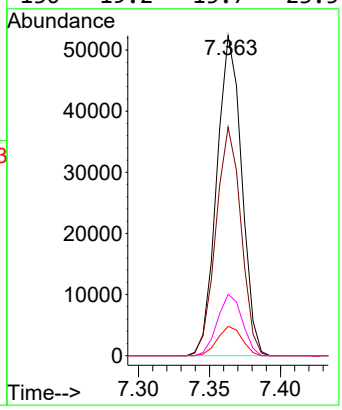




#19
n-Nitroso-di-n-propylamine
Concen: 10.139 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

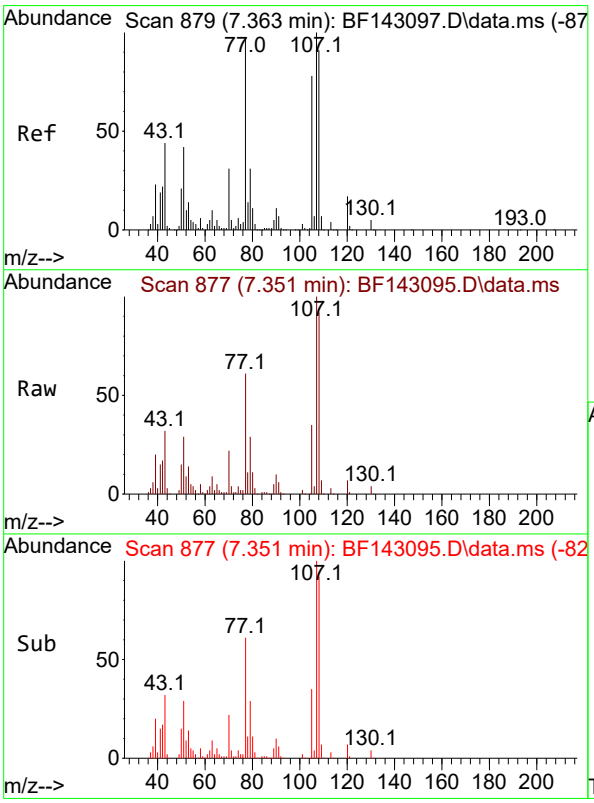
Tgt Ion: 70 Resp: 6383

Ion	Ratio	Lower	Upper
70	100		
42	71.4	53.2	79.8
101	9.2	7.5	11.3
130	19.2	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

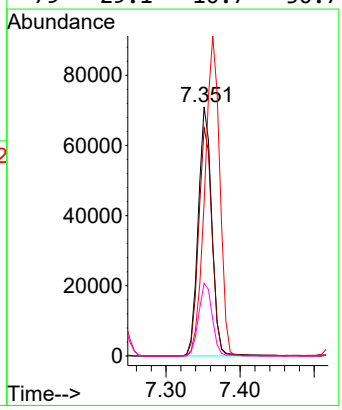
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

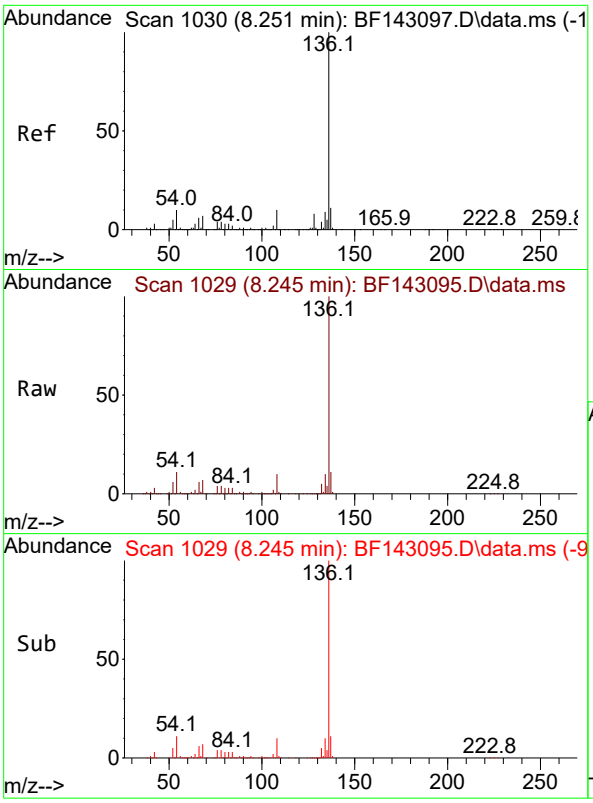


#20
3+4-Methylphenols
Concen: 10.391 ng
RT: 7.351 min Scan# 877
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:107 Resp: 90318

Ion	Ratio	Lower	Upper
107	100		
108	91.6	71.3	111.3
77	61.4	77.2	117.2#
79	29.1	10.7	50.7

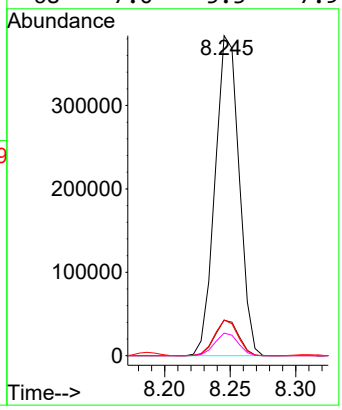




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:136 Resp: 48863

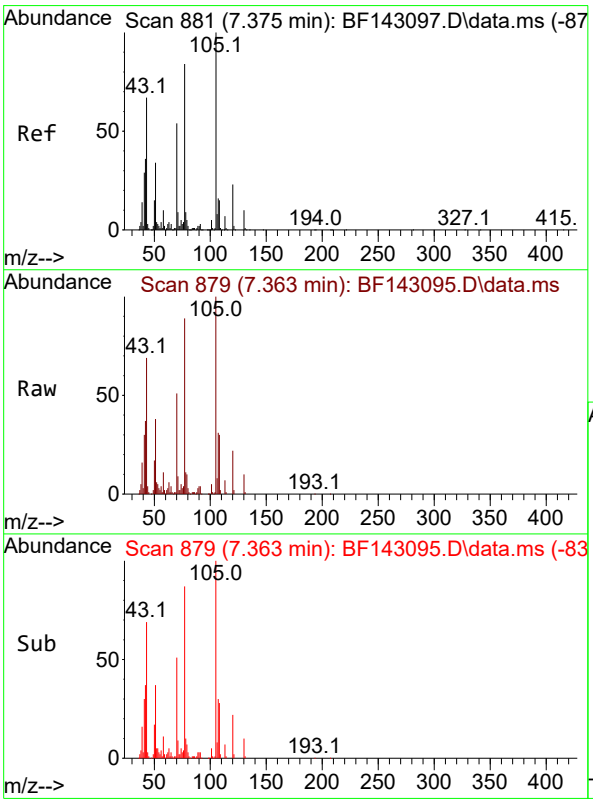
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	11.2	8.3	12.5
68	7.0	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

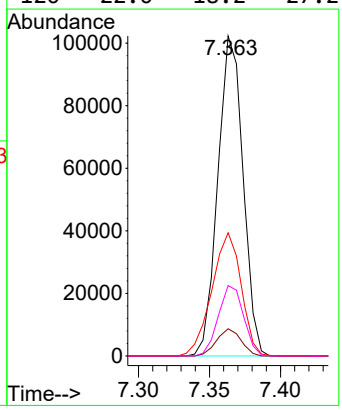
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

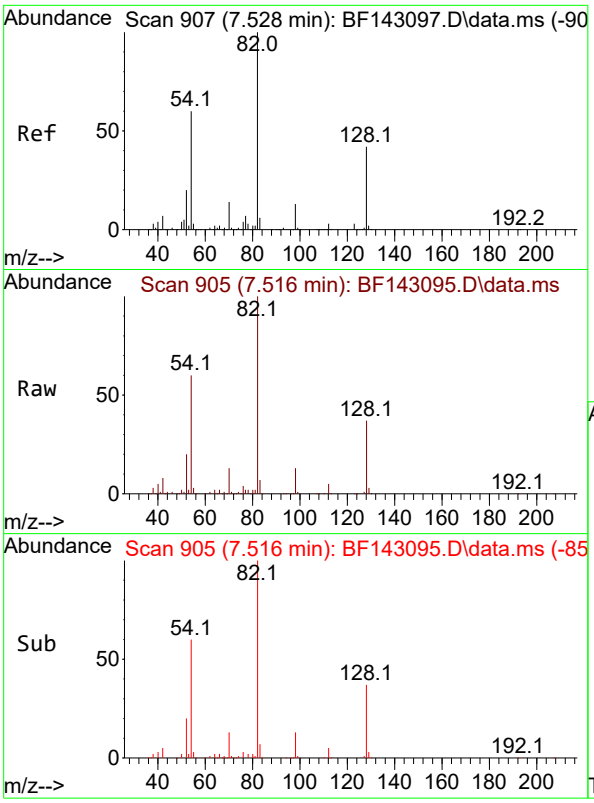


#22
Acetophenone
Concen: 10.708 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:105 Resp: 126127

Ion	Ratio	Lower	Upper
105	100		
71	8.5	7.2	10.8
51	38.5	27.0	40.4
120	22.0	18.2	27.2

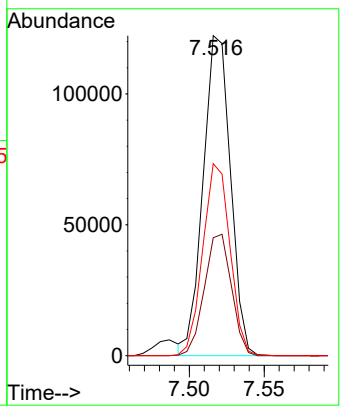




#23
Nitrobenzene-d5
Concen: 17.910 ng m
RT: 7.516 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 82 Resp: 15600

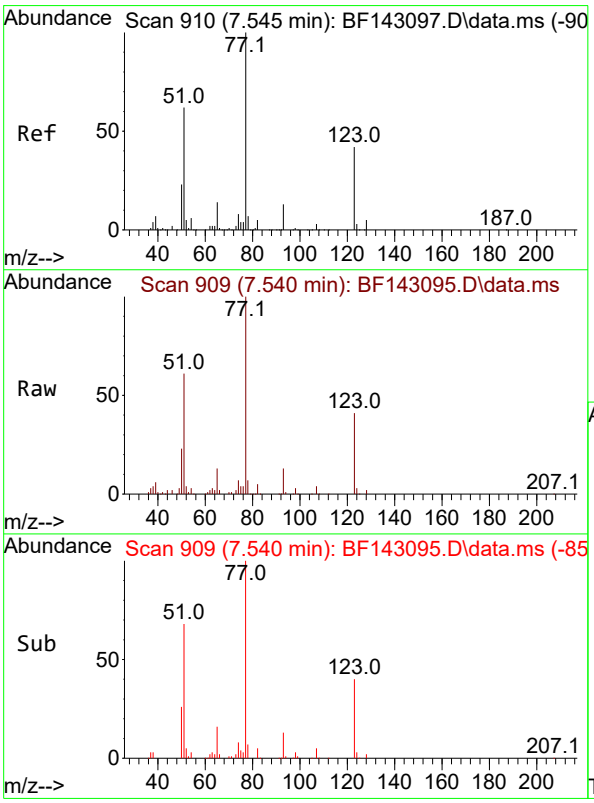
Ion	Ratio	Lower	Upper
82	100		
128	36.8	33.3	49.9
54	60.0	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

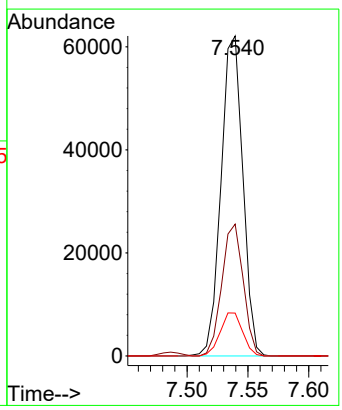
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

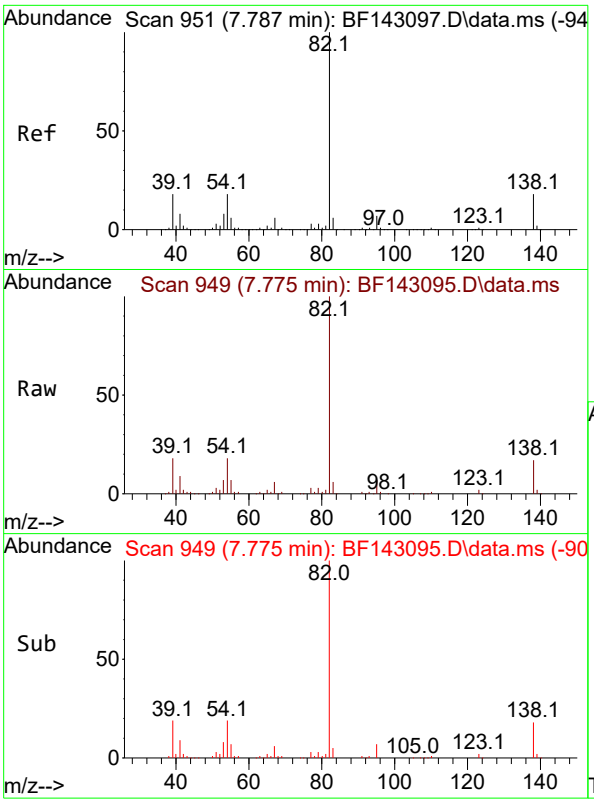


#24
Nitrobenzene
Concen: 9.201 ng
RT: 7.540 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 77 Resp: 77369

Ion	Ratio	Lower	Upper
77	100		
123	41.2	34.5	51.7
65	13.4	11.3	16.9

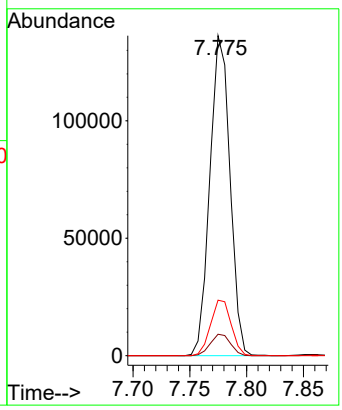




#25
Isophorone
Concen: 9.978 ng
RT: 7.775 min Scan# 94
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 82 Resp: 16798

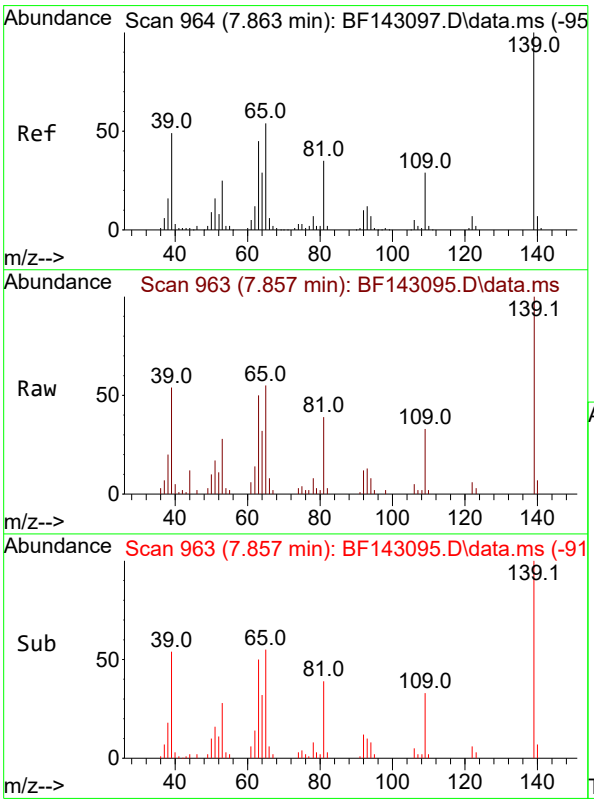
Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.6	8.4
138	17.4	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

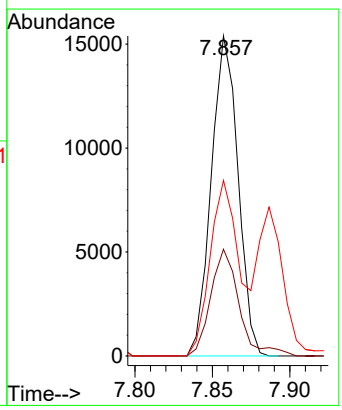
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

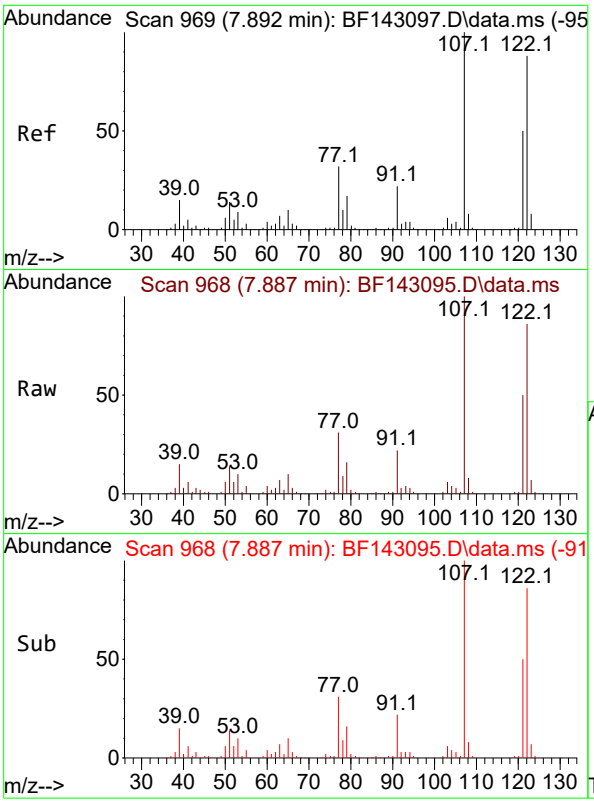


#26
2-Nitrophenol
Concen: 8.966 ng
RT: 7.857 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:139 Resp: 18432

Ion	Ratio	Lower	Upper
139	100		
109	33.4	23.4	35.0
65	54.8	43.4	65.2

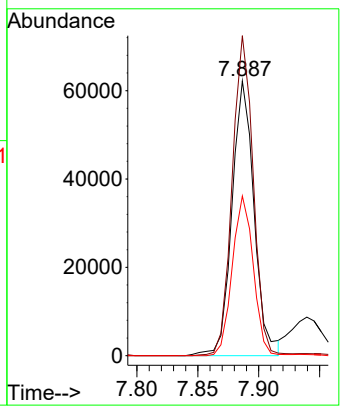




#27
2,4-Dimethylphenol
Concen: 10.072 ng
RT: 7.887 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:122 Resp: 7870

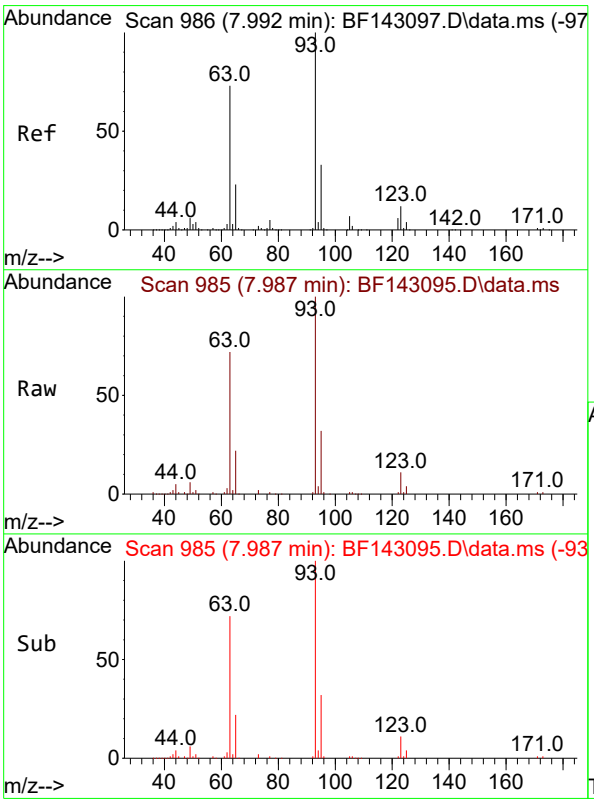
Ion	Ratio	Lower	Upper
122	100		
107	116.5	91.3	136.9
121	58.1	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

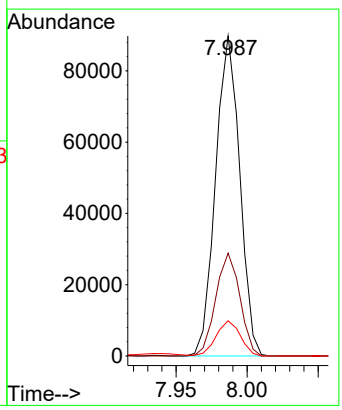
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

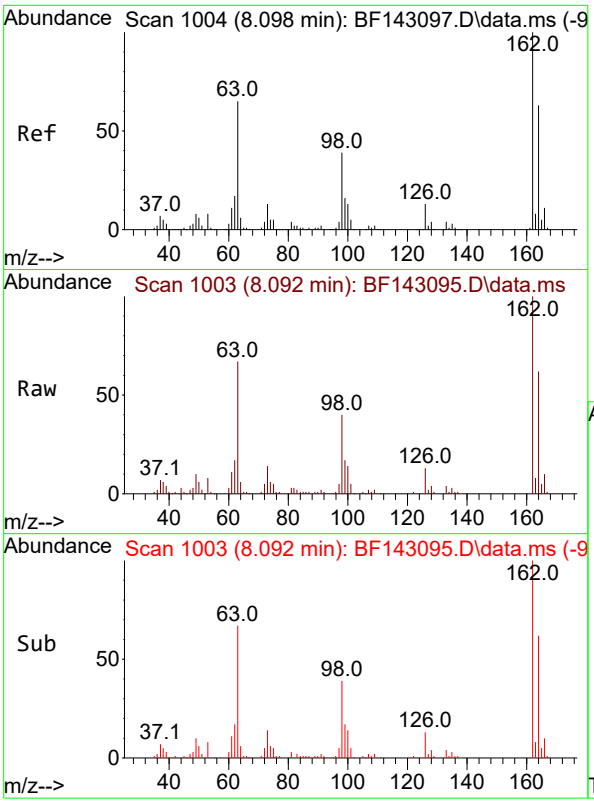


#28
bis(2-Chloroethoxy)methane
Concen: 10.387 ng
RT: 7.987 min Scan# 985
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 93 Resp: 106045

Ion	Ratio	Lower	Upper
93	100		
95	32.1	26.2	39.4
123	11.0	9.6	14.4

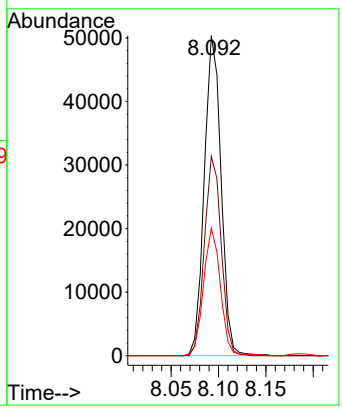




#29
2,4-Dichlorophenol
Concen: 9.724 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:162 Resp: 6216

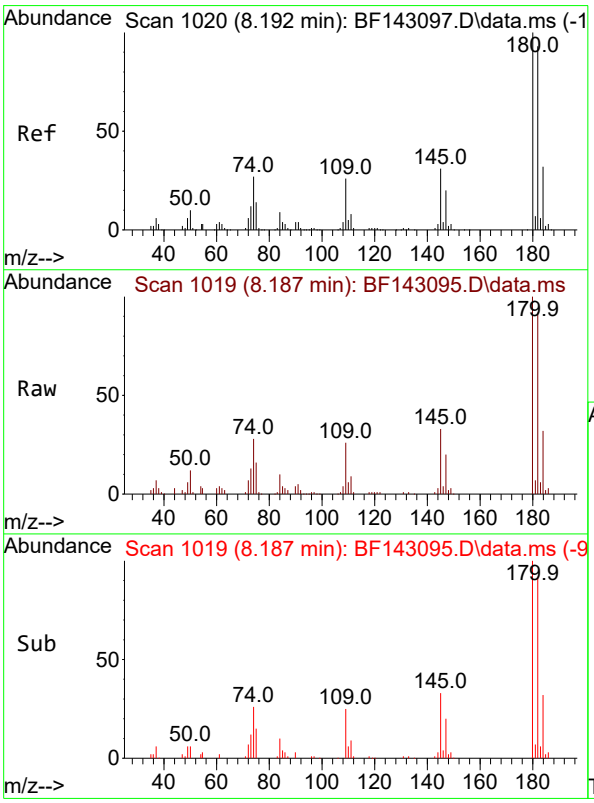
Ion	Ratio	Lower	Upper
162	100		
164	62.3	43.1	83.1
98	39.8	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

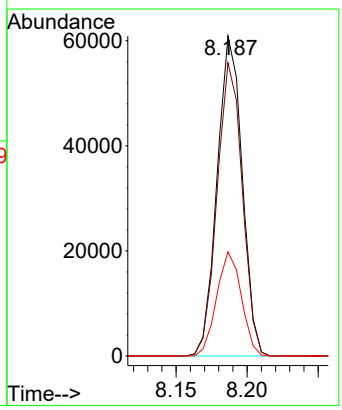
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

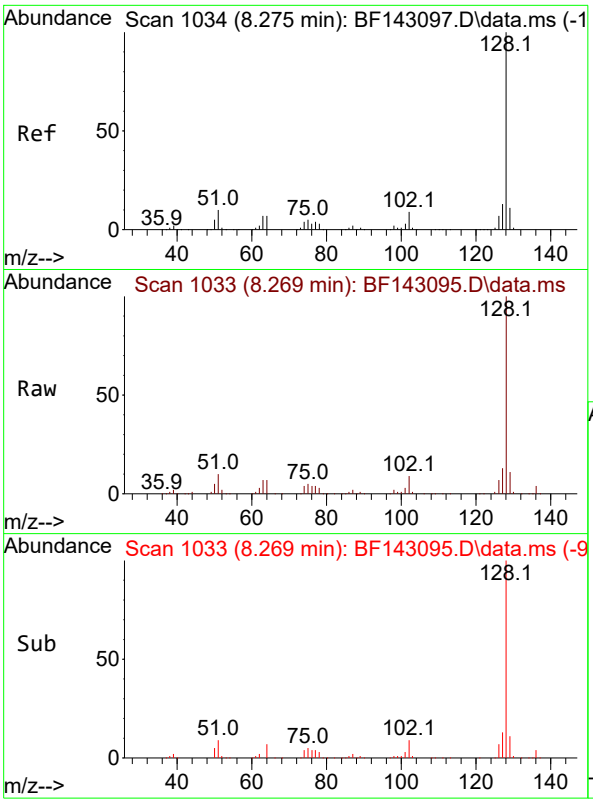


#30
1,2,4-Trichlorobenzene
Concen: 10.280 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:180 Resp: 74581

Ion	Ratio	Lower	Upper
180	100		
182	91.6	74.7	112.1
145	32.5	24.5	36.7

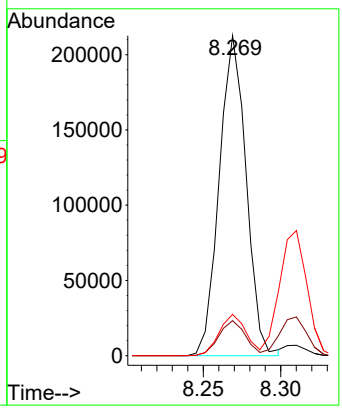




#31
Naphthalene
Concen: 10.551 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:128 Resp: 25603

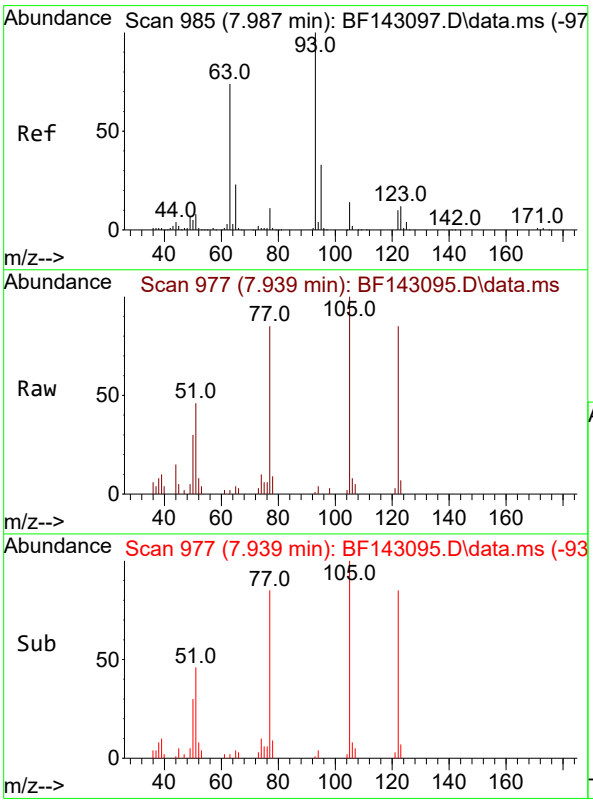
Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.4
127	12.9	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

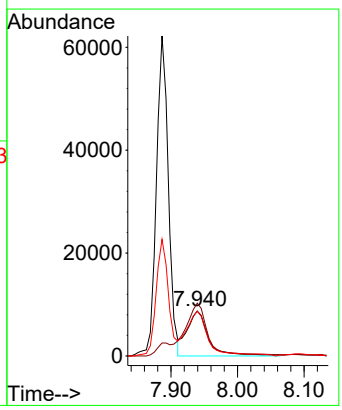
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

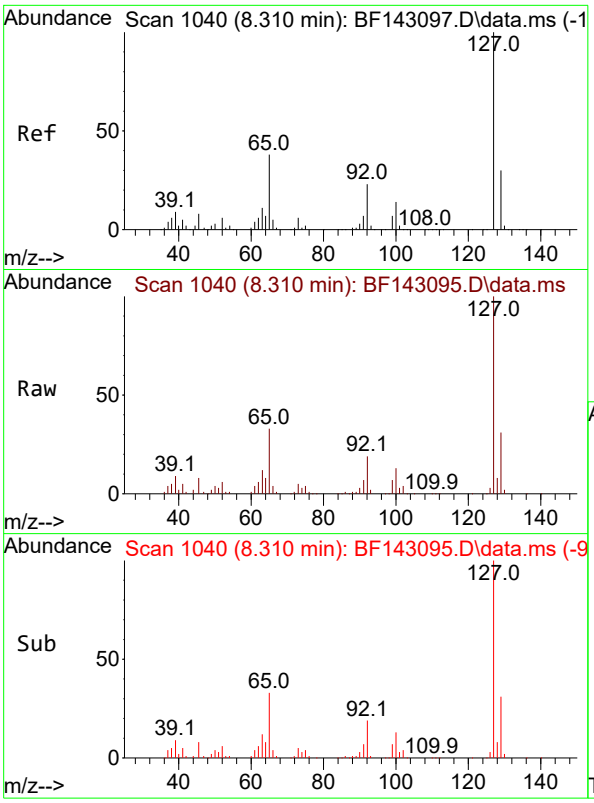


#32
Benzoic acid
Concen: 10.880 ng m
RT: 7.939 min Scan# 977
Delta R.T. -0.048 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:122 Resp: 19661

Ion	Ratio	Lower	Upper
122	100		
105	117.5	105.4	145.4
77	99.5	78.6	118.6

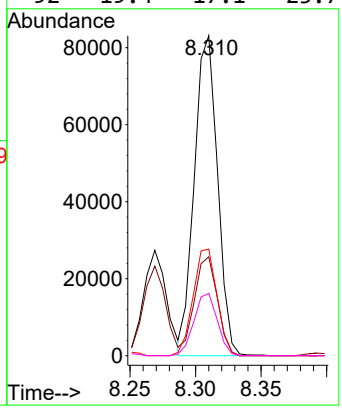




#33
4-Chloroaniline
Concen: 10.510 ng
RT: 8.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:127 Resp: 10255

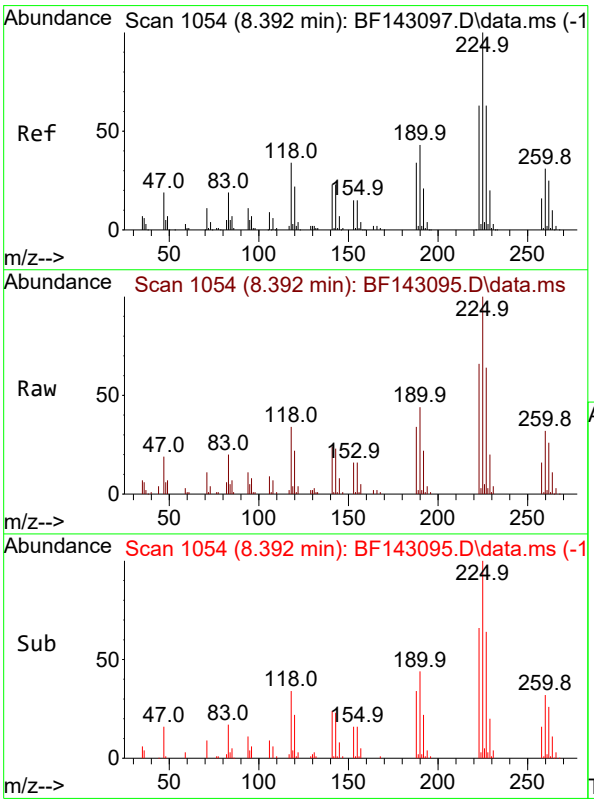
Ion	Ratio	Lower	Upper
127	100		
129	30.9	26.2	39.4
65	33.3	28.6	42.8
92	19.4	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

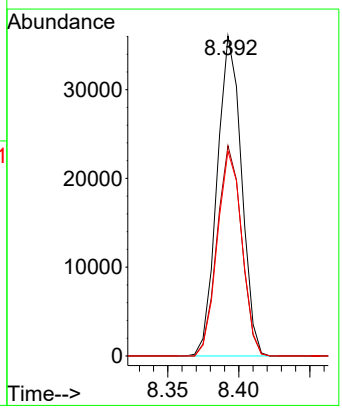
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

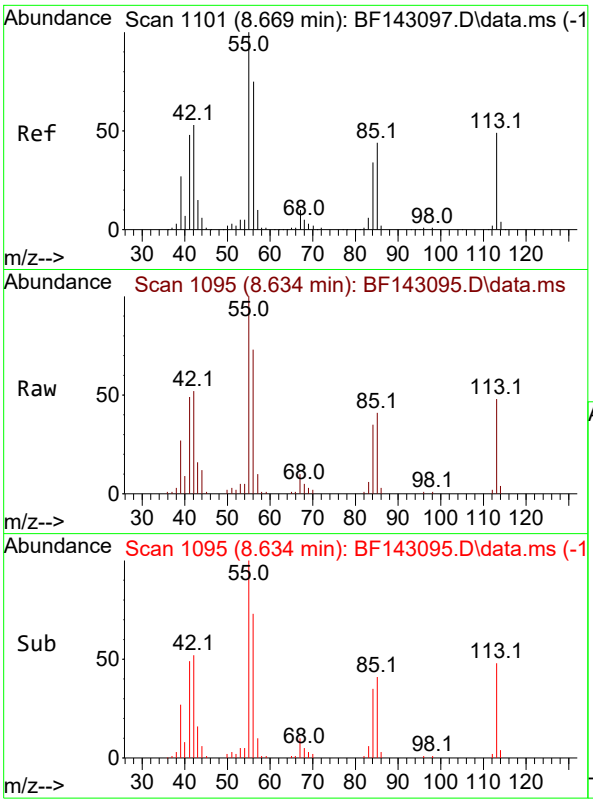


#34
Hexachlorobutadiene
Concen: 9.901 ng
RT: 8.392 min Scan# 1054
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:225 Resp: 42959

Ion	Ratio	Lower	Upper
225	100		
223	65.7	50.3	75.5
227	63.9	50.1	75.1





#35
Caprolactam
Concen: 8.944 ng
RT: 8.634 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

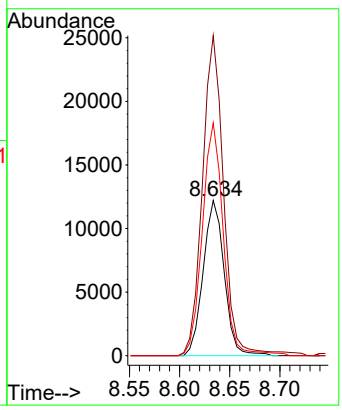
Tgt Ion:113 Resp: 1785

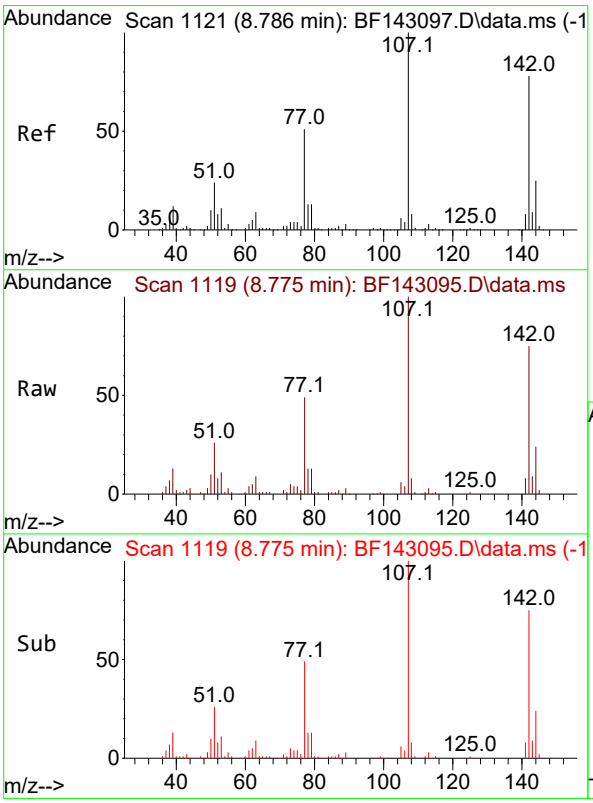
Ion	Ratio	Lower	Upper
113	100		
55	206.2	186.2	226.2
56	150.0	134.1	174.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

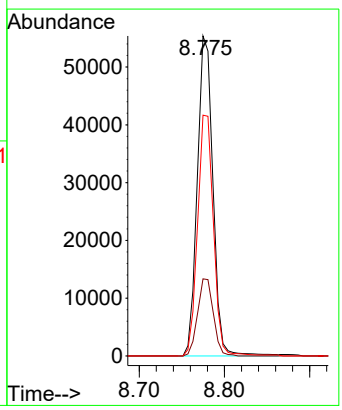


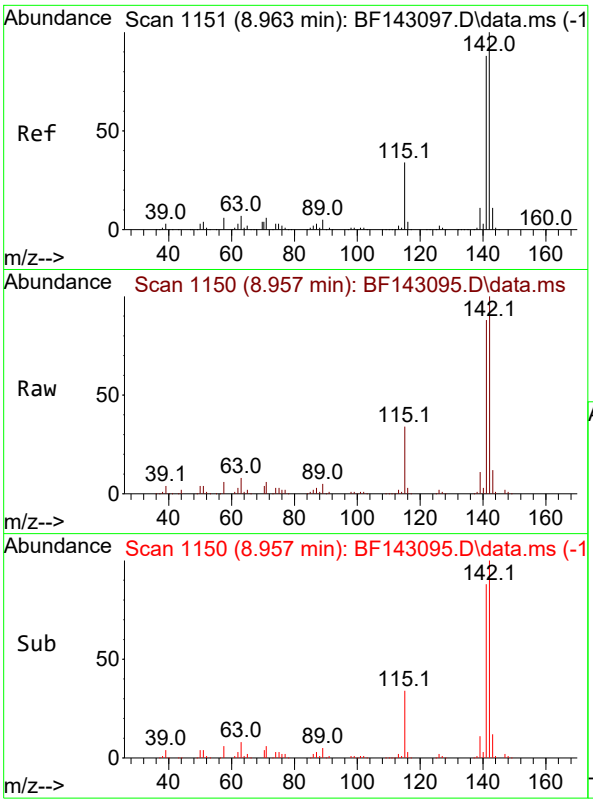


#36
4-Chloro-3-methylphenol
Concen: 9.935 ng
RT: 8.775 min Scan# 1119
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:107 Resp: 70747

Ion	Ratio	Lower	Upper
107	100		
144	24.1	20.2	30.2
142	75.2	62.4	93.6

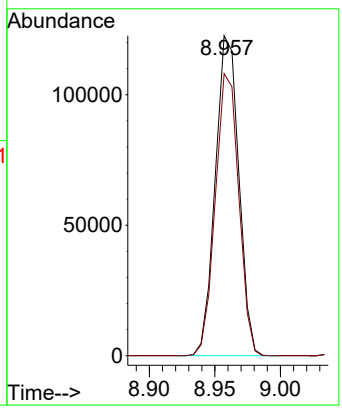




#37
2-Methylnaphthalene
Concen: 10.557 ng
RT: 8.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:142 Resp: 15282

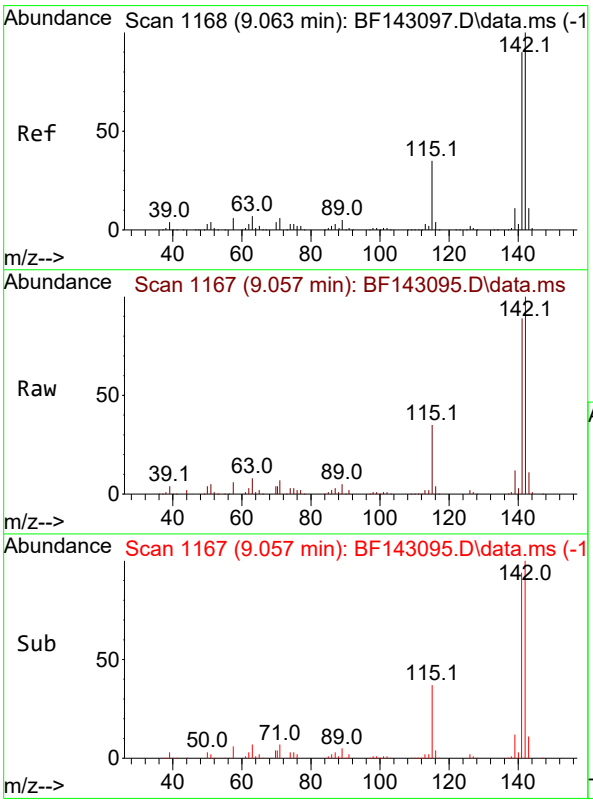
Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.2	105.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

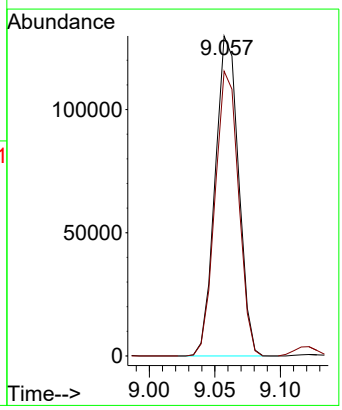
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

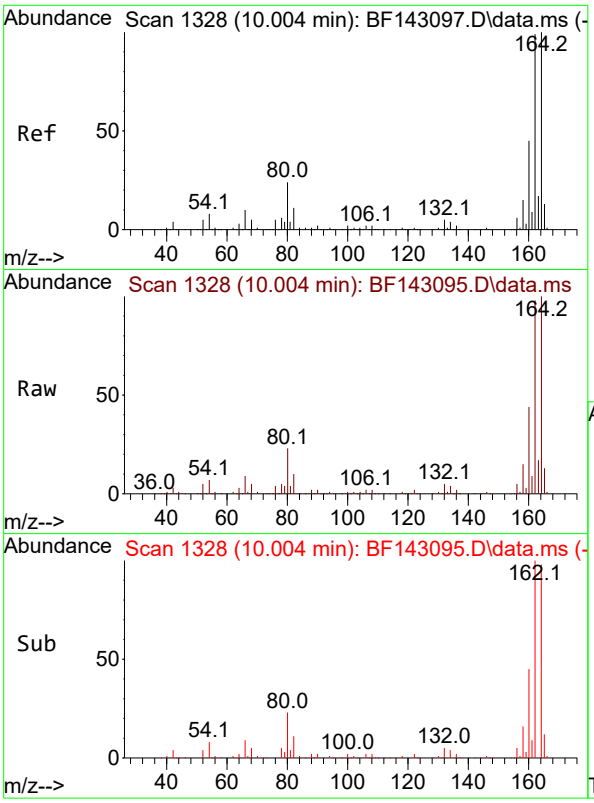


#38
1-Methylnaphthalene
Concen: 10.739 ng
RT: 9.057 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:142 Resp: 161228

Ion	Ratio	Lower	Upper
142	100		
141	89.0	72.2	108.4

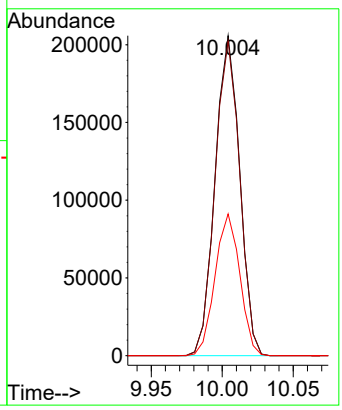




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:164 Resp: 24801

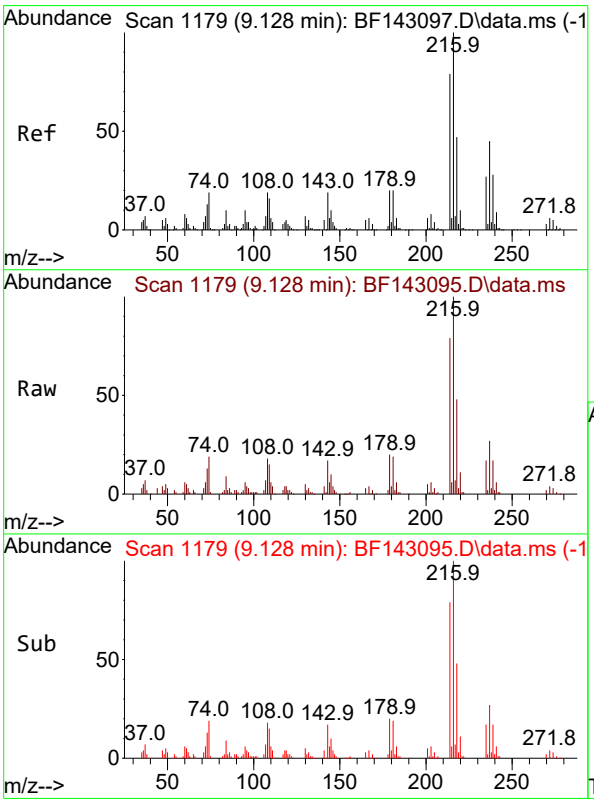
Ion	Ratio	Lower	Upper
164	100		
162	98.3	79.0	118.6
160	44.3	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

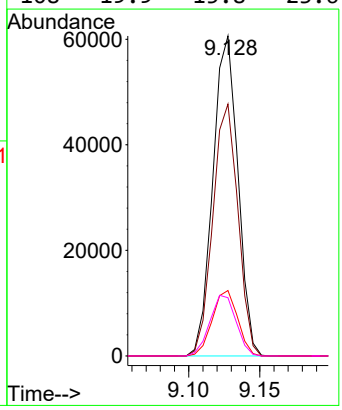
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

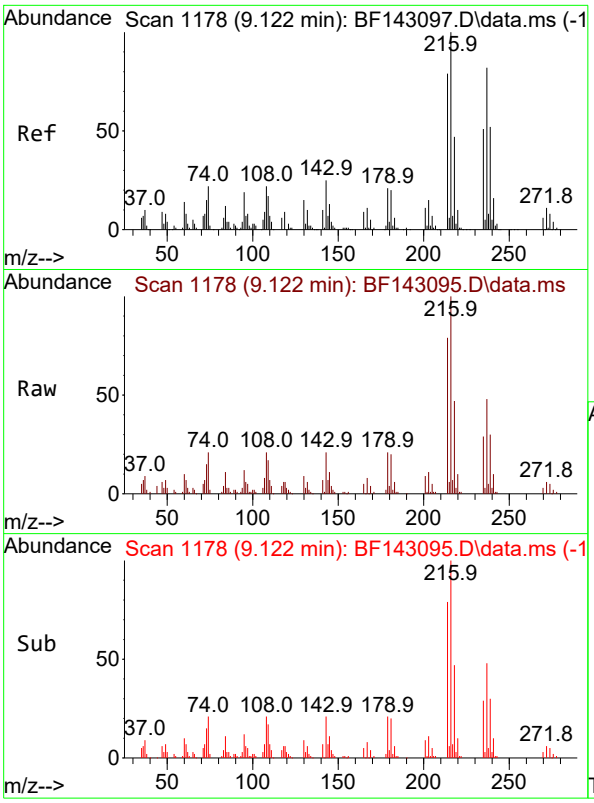


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.287 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:216 Resp: 74348

Ion	Ratio	Lower	Upper
216	100		
214	78.7	62.6	94.0
179	20.7	16.2	24.2
108	19.9	15.8	23.6





#41
Hexachlorocyclopentadiene
Concen: 7.854 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

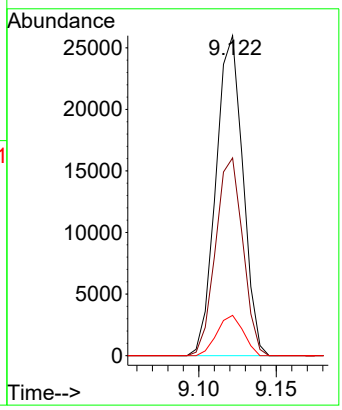
Tgt Ion:237 Resp: 3147

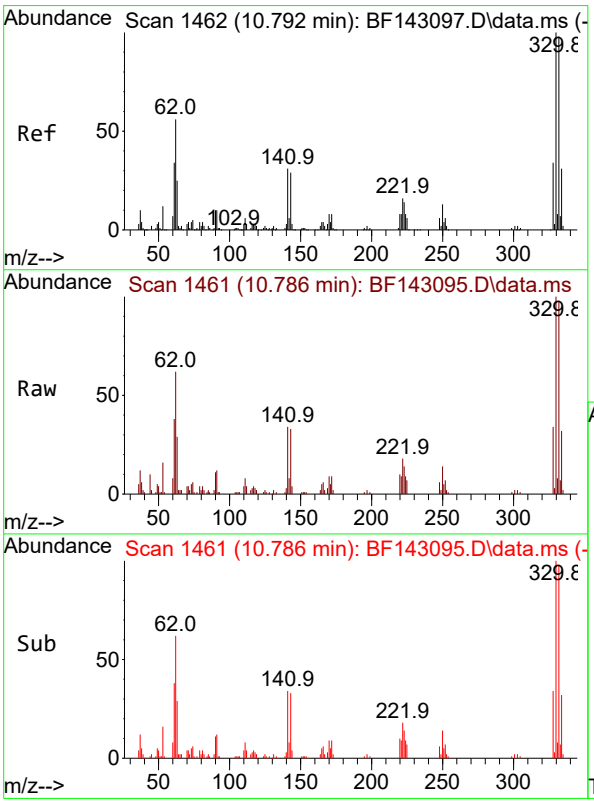
Ion	Ratio	Lower	Upper
237	100		
235	61.8	41.6	81.6
272	12.6	0.0	32.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

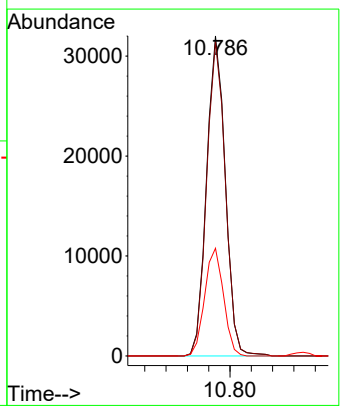


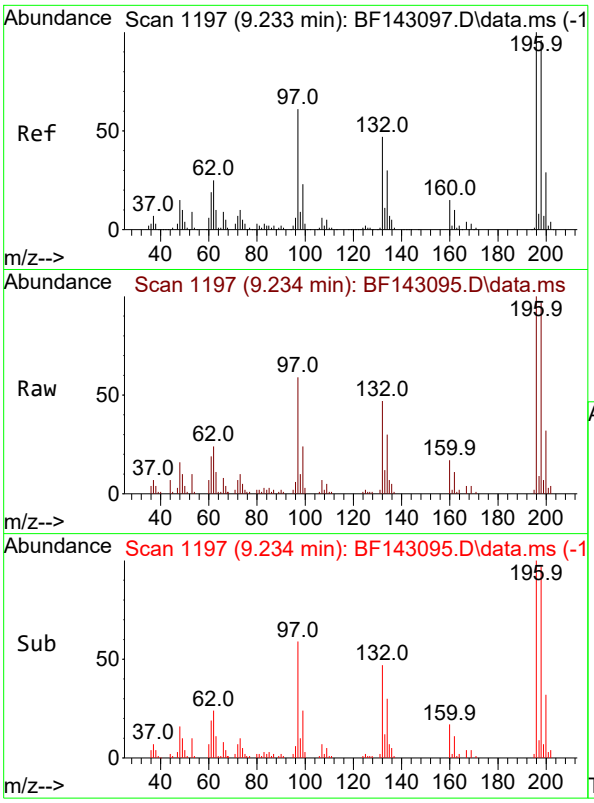


#42
2,4,6-Tribromophenol
Concen: 17.661 ng
RT: 10.786 min Scan# 1461
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:330 Resp: 39055

Ion	Ratio	Lower	Upper
330	100		
332	98.1	77.9	116.9
141	33.8	25.9	38.9

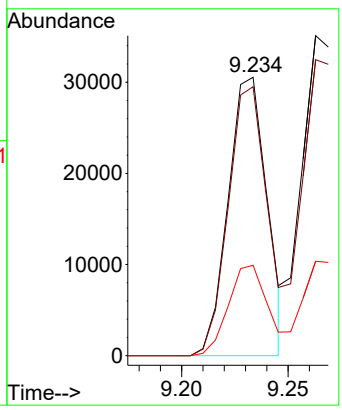




#43
2,4,6-Trichlorophenol
Concen: 8.628 ng
RT: 9.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:196 Resp: 3874

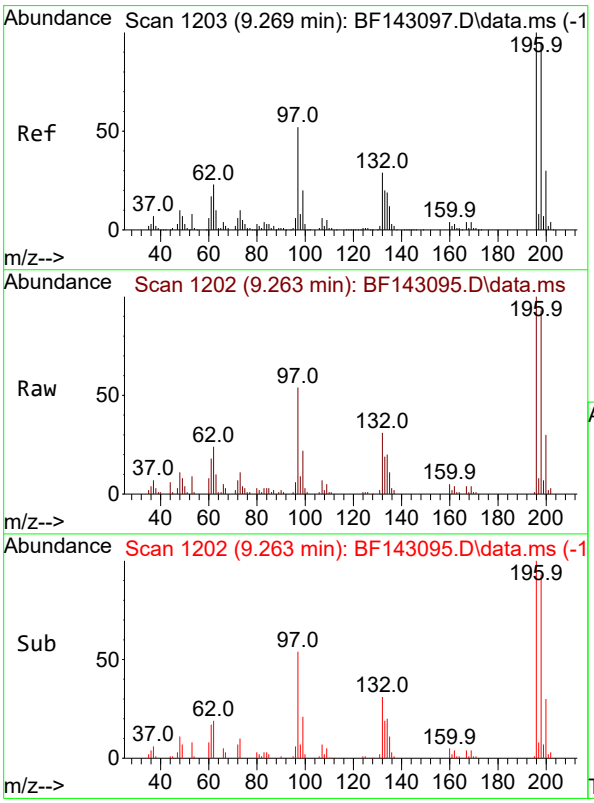
Ion	Ratio	Lower	Upper
196	100		
198	96.6	76.9	115.3
200	32.5	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

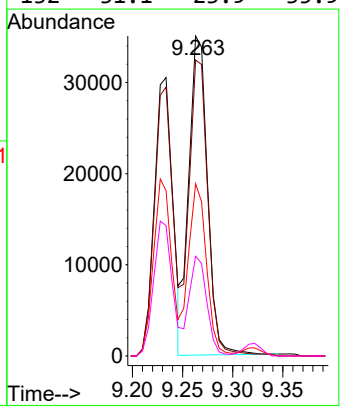
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

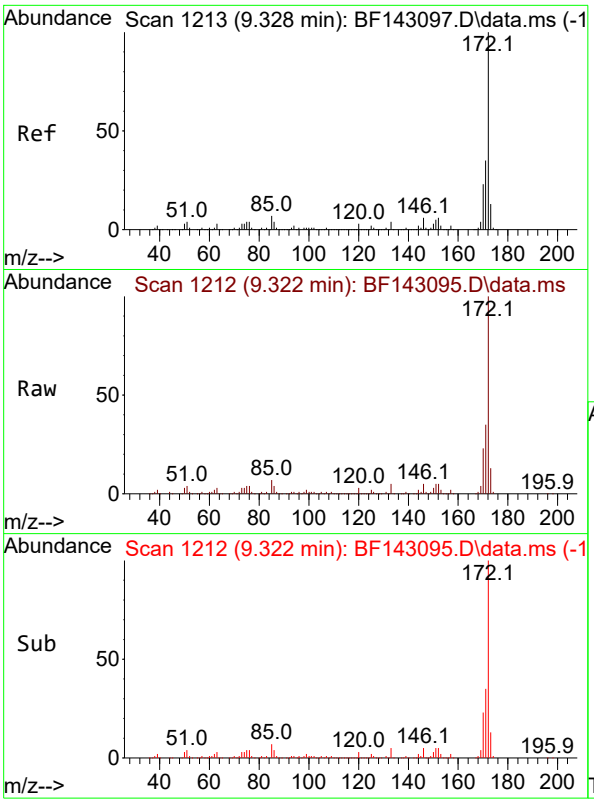


#44
2,4,5-Trichlorophenol
Concen: 9.653 ng
RT: 9.263 min Scan# 1202
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:196 Resp: 45455

Ion	Ratio	Lower	Upper
196	100		
198	92.5	76.4	114.6
97	53.8	42.4	63.6
132	31.1	23.9	35.9

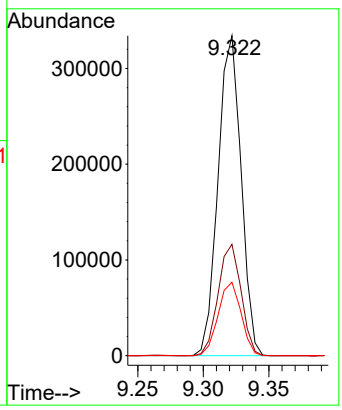




#45
2-Fluorobiphenyl
Concen: 21.860 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:172 Resp: 40786

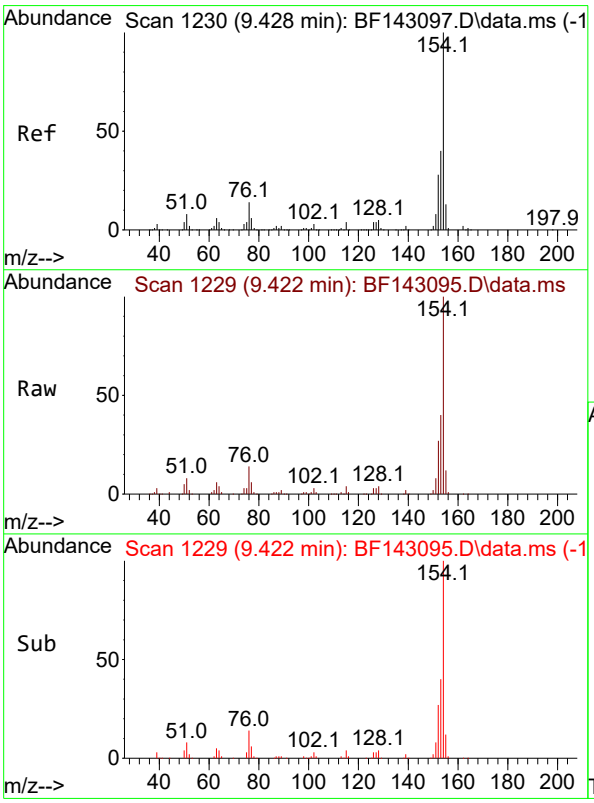
Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.2	42.4
170	23.0	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

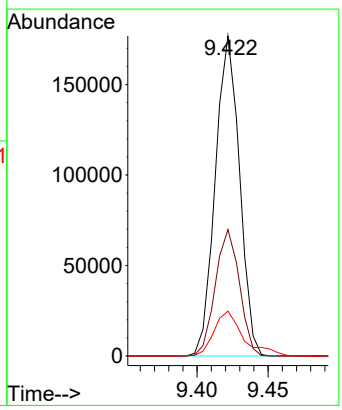
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

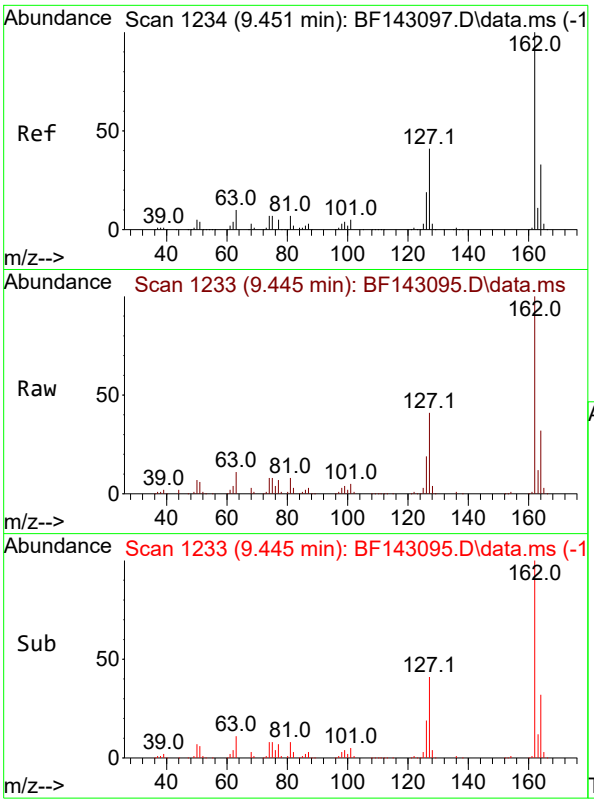


#46
1,1'-Biphenyl
Concen: 10.580 ng
RT: 9.422 min Scan# 1229
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:154 Resp: 209259

Ion	Ratio	Lower	Upper
154	100		
153	39.5	20.1	60.1
76	14.0	0.0	33.7

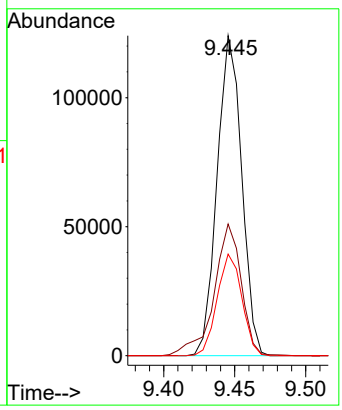




#47
2-Chloronaphthalene
Concen: 10.267 ng
RT: 9.445 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:162 Resp: 14917

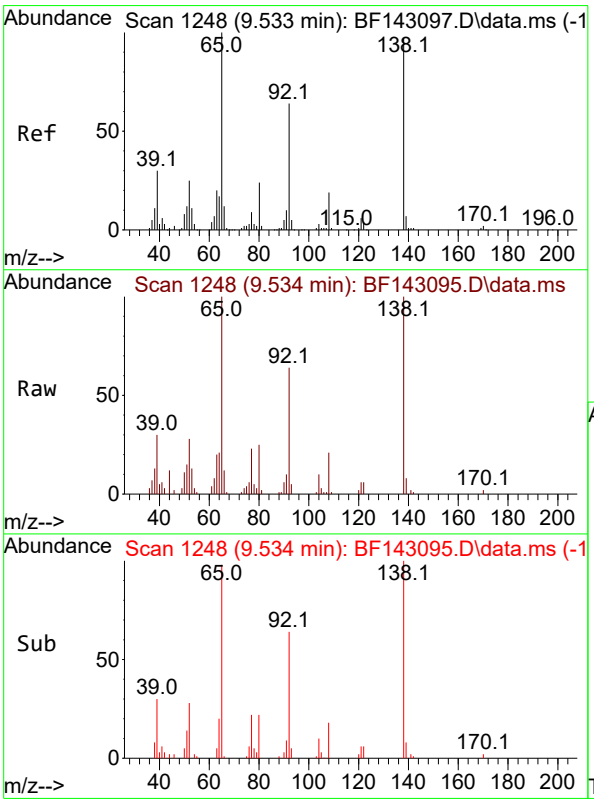
Ion	Ratio	Lower	Upper
162	100		
127	41.1	33.0	49.6
164	31.8	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

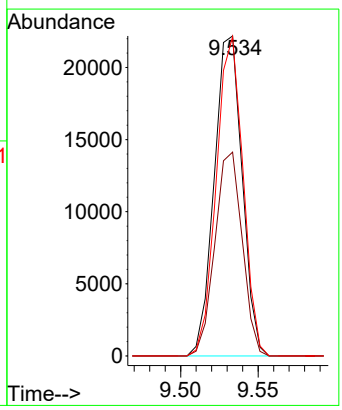
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

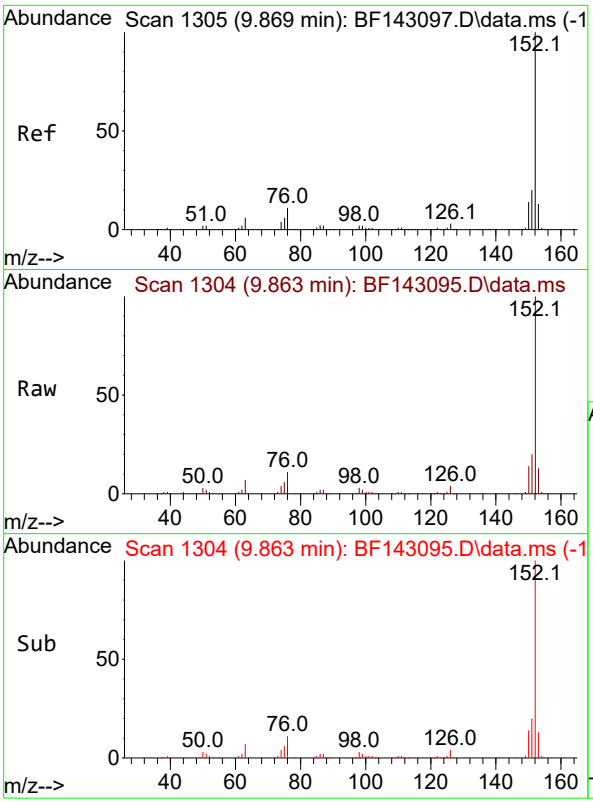


#48
2-Nitroaniline
Concen: 9.163 ng
RT: 9.534 min Scan# 1248
Delta R.T. 0.001 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 65 Resp: 27816

Ion	Ratio	Lower	Upper
65	100		
92	63.7	51.3	76.9
138	99.7	77.8	116.6

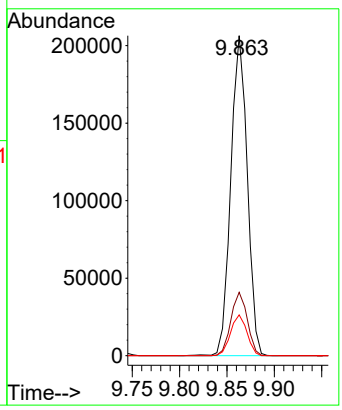




#49
Acenaphthylene
Concen: 10.302 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:152 Resp: 24943

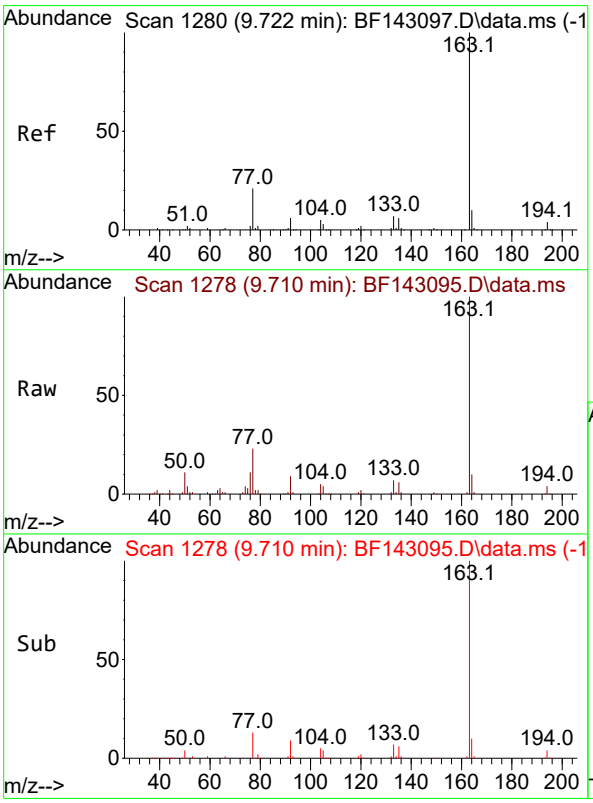
Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	12.8	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

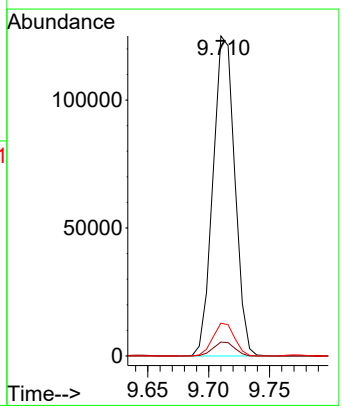
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

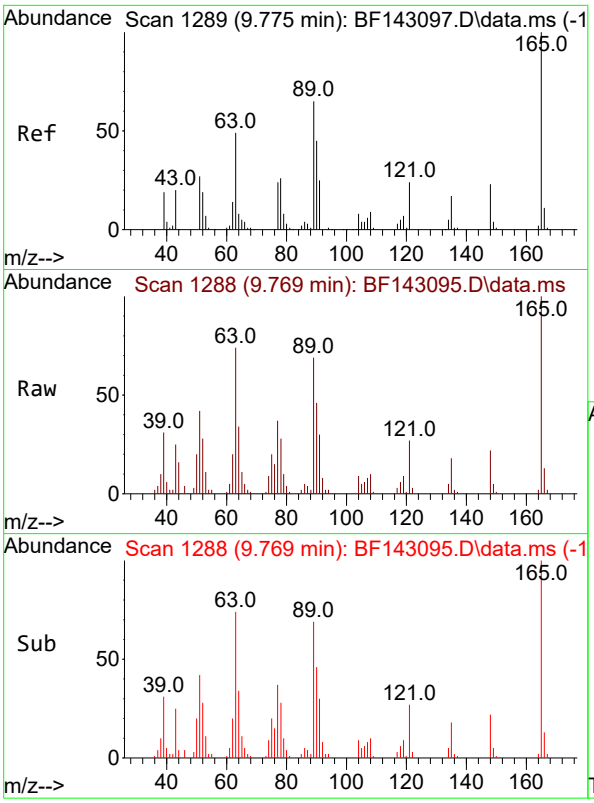


#50
Dimethylphthalate
Concen: 10.003 ng
RT: 9.710 min Scan# 1278
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:163 Resp: 156072

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	8.2	12.2

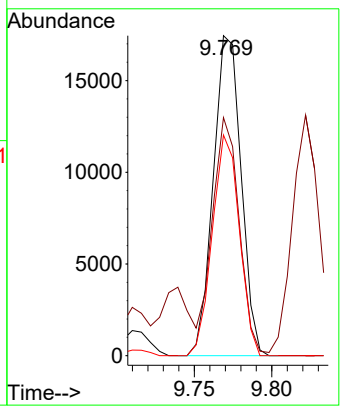




#51
2,6-Dinitrotoluene
Concen: 9.451 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:165 Resp: 2178

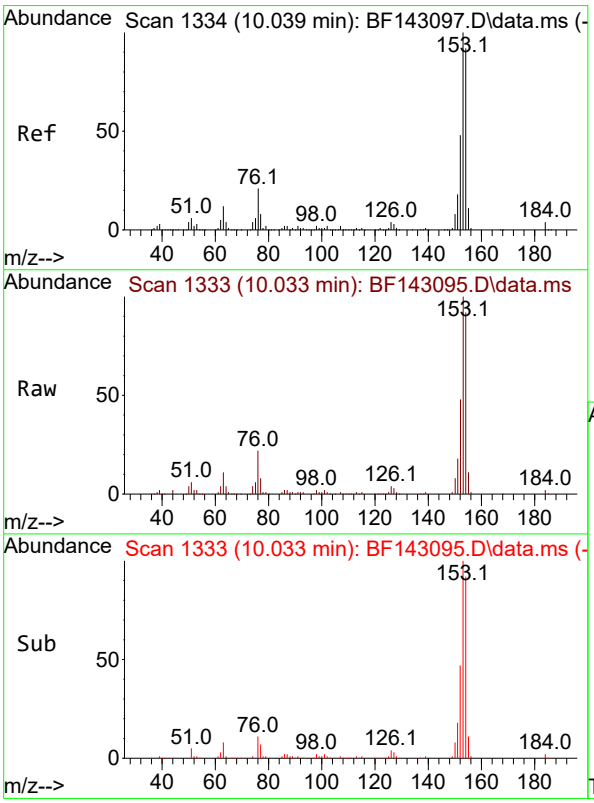
Ion	Ratio	Lower	Upper
165	100		
63	74.4	57.4	86.0
89	69.0	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

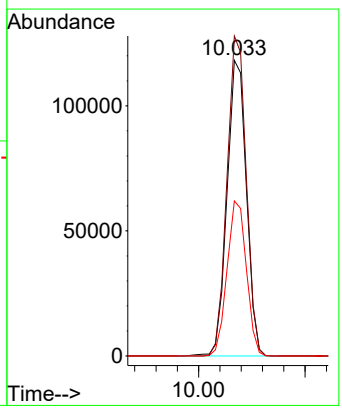
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

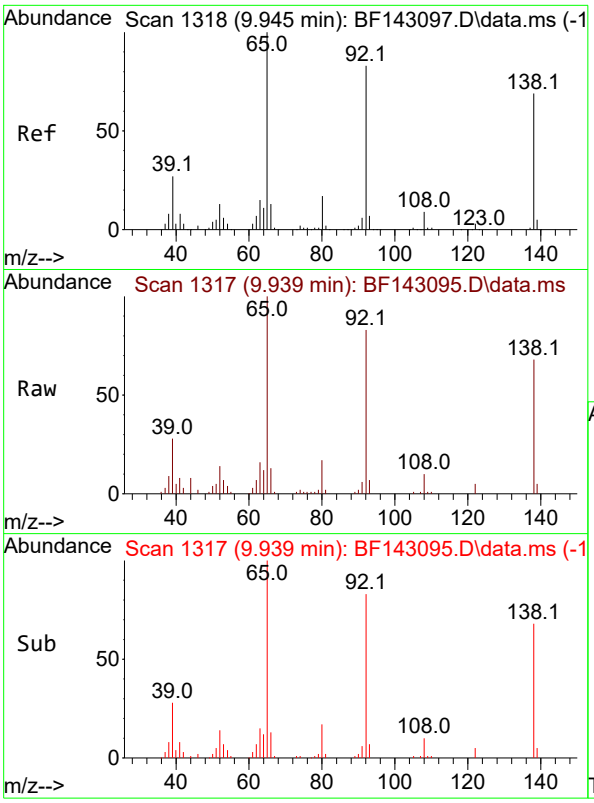


#52
Acenaphthene
Concen: 10.451 ng
RT: 10.033 min Scan# 1333
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:154 Resp: 149318

Ion	Ratio	Lower	Upper
154	100		
153	108.2	86.7	130.1
152	52.4	41.4	62.2





#53
3-Nitroaniline
Concen: 8.336 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

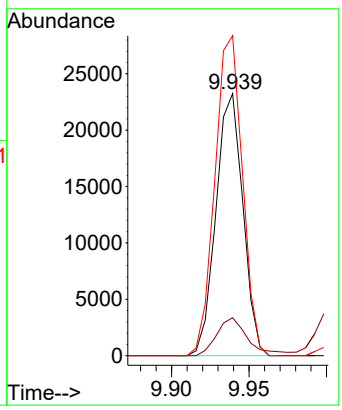
Tgt Ion:138 Resp: 2810

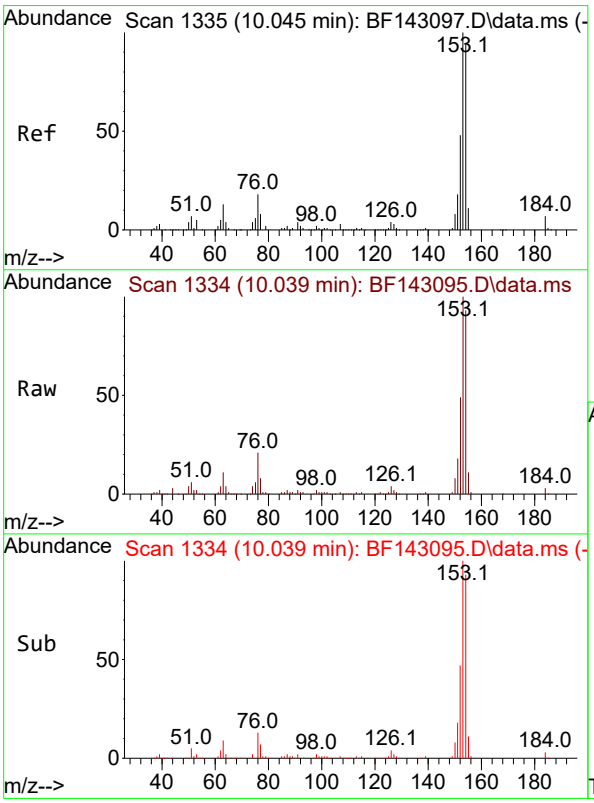
Ion	Ratio	Lower	Upper
138	100		
108	14.5	10.1	15.1
92	122.1	96.4	144.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

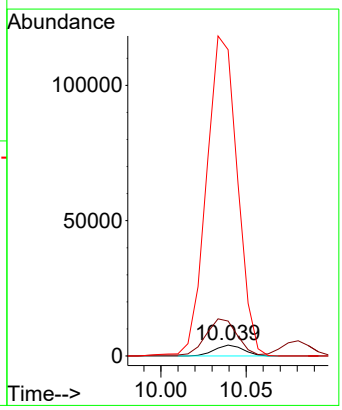


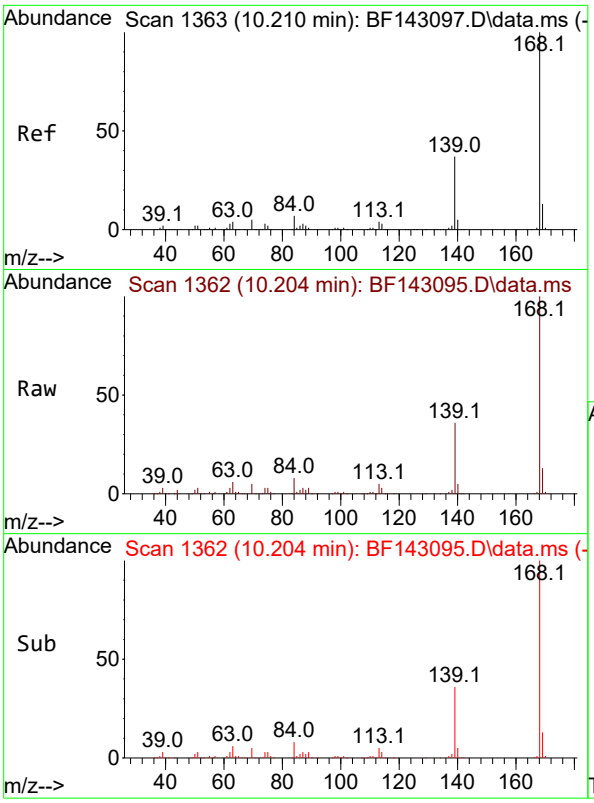


#54
2,4-Dinitrophenol
Concen: 10.239 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:184 Resp: 4729

Ion	Ratio	Lower	Upper
184	100		
63	321.1	149.3	223.9#
154	2815.4	1048.0	1572.0#

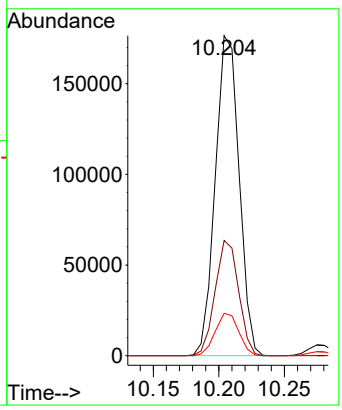




#55
Dibenzofuran
Concen: 10.451 ng
RT: 10.204 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:168 Resp: 22255

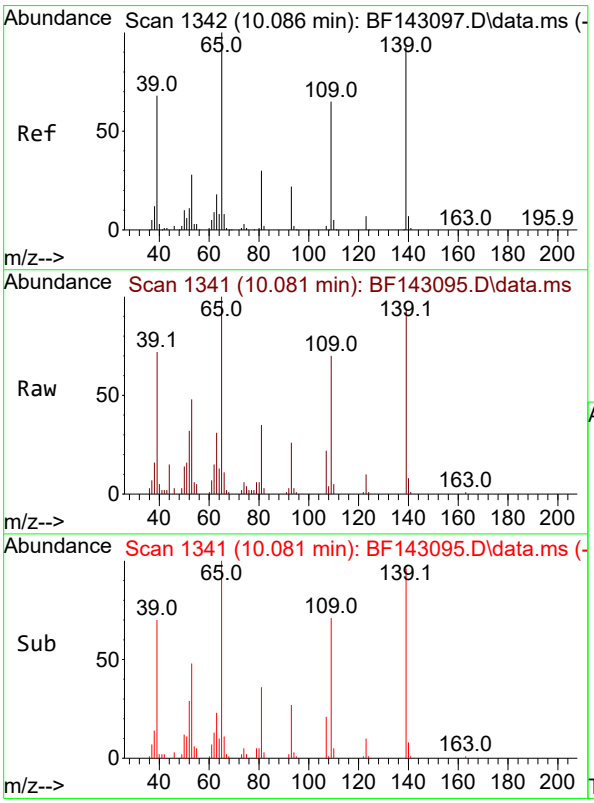
Ion	Ratio	Lower	Upper
168	100		
139	36.0	29.8	44.6
169	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

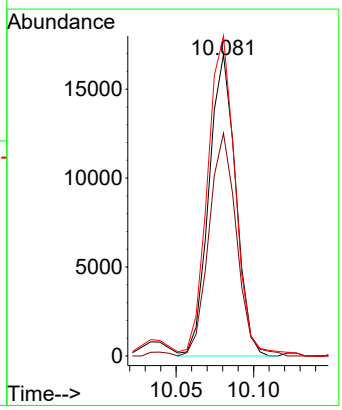
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

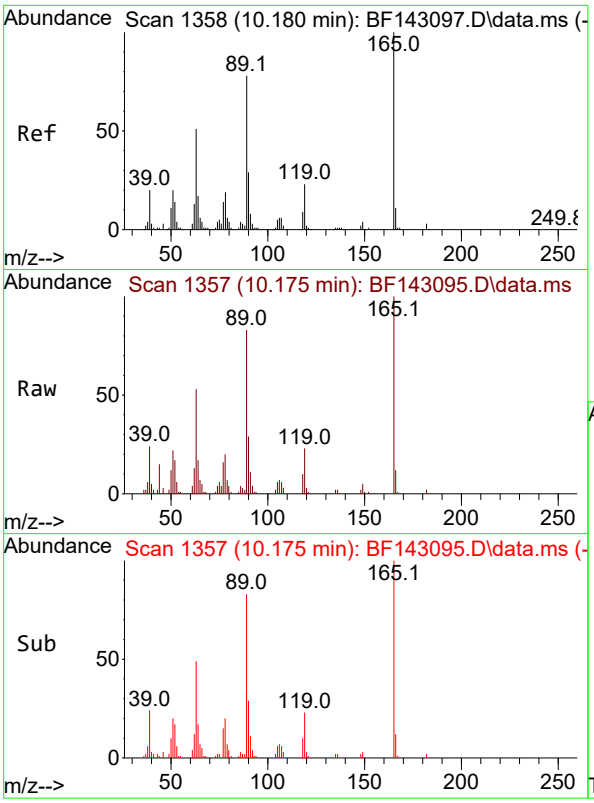


#56
4-Nitrophenol
Concen: 7.589 ng
RT: 10.081 min Scan# 1341
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:139 Resp: 20334

Ion	Ratio	Lower	Upper
139	100		
109	73.8	49.4	89.4
65	106.1	88.2	128.2

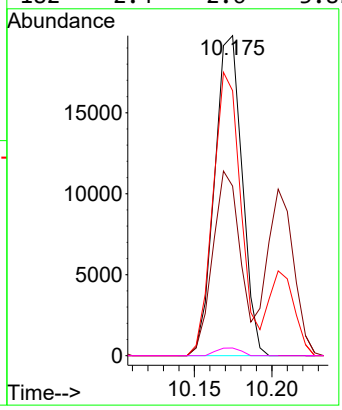




#57
2,4-Dinitrotoluene
Concen: 9.293 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:165 Resp: 2442

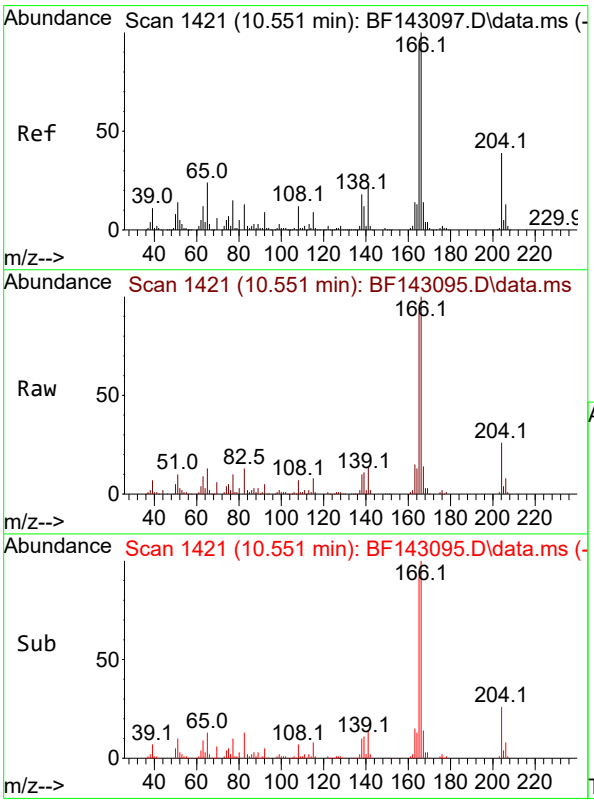
Ion	Ratio	Lower	Upper
165	100		
63	53.0	40.6	61.0
89	82.8	62.3	93.5
182	2.4	2.6	3.8#



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

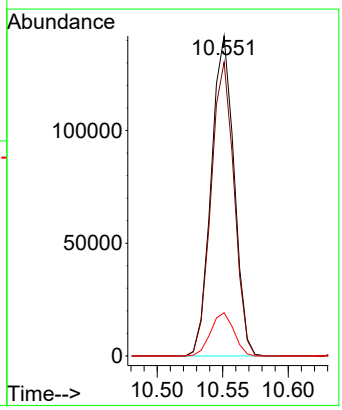
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

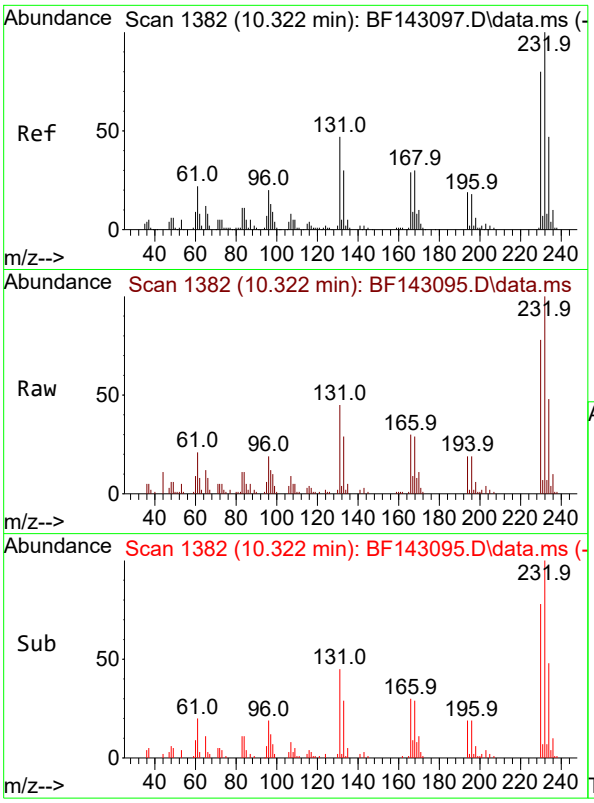


#58
Fluorene
Concen: 10.771 ng
RT: 10.551 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:166 Resp: 171975

Ion	Ratio	Lower	Upper
166	100		
165	91.8	73.7	110.5
167	13.5	10.9	16.3

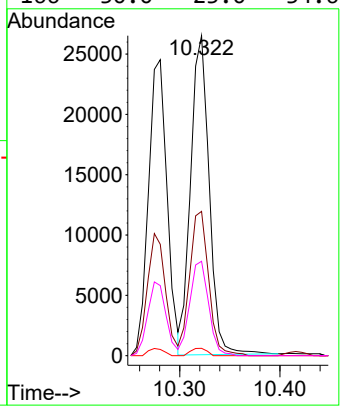




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.084 ng
RT: 10.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:232 Resp: 3399

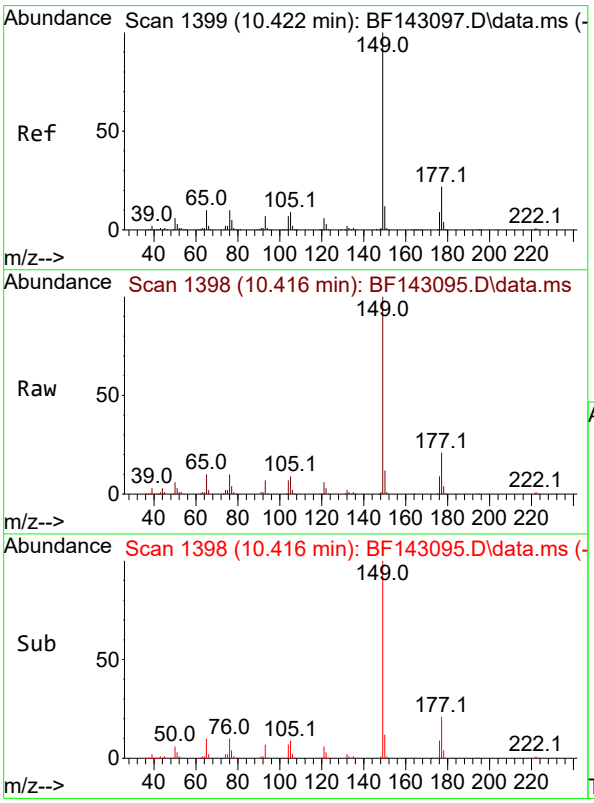
Ion	Ratio	Lower	Upper
232	100		
131	46.3	36.9	55.3
130	2.0	1.8	2.8
166	30.0	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

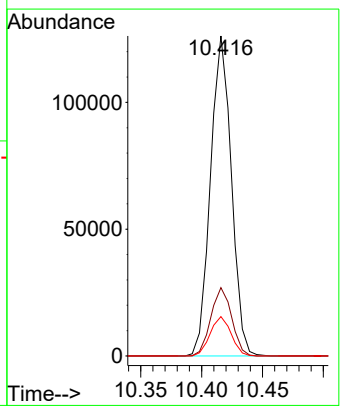
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

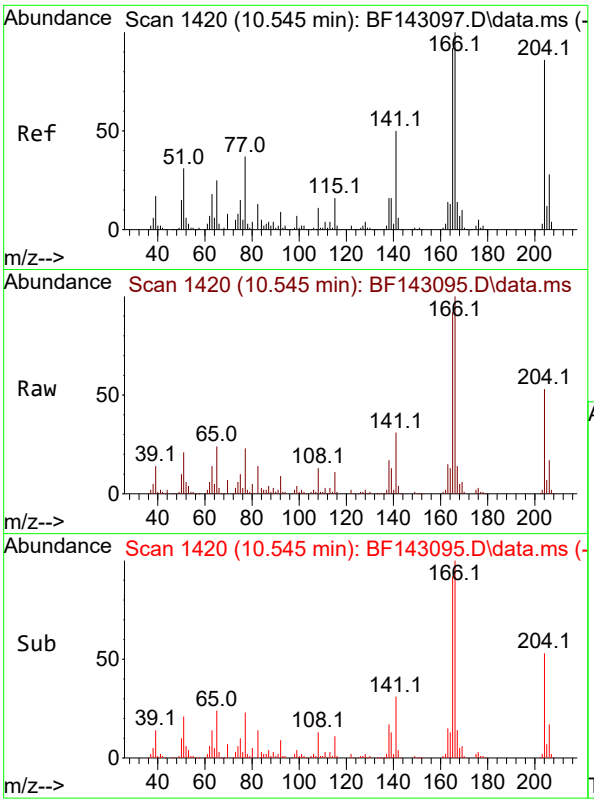


#60
Diethylphthalate
Concen: 10.027 ng
RT: 10.416 min Scan# 1398
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:149 Resp: 150934

Ion	Ratio	Lower	Upper
149	100		
177	21.3	17.3	25.9
150	12.3	9.9	14.9

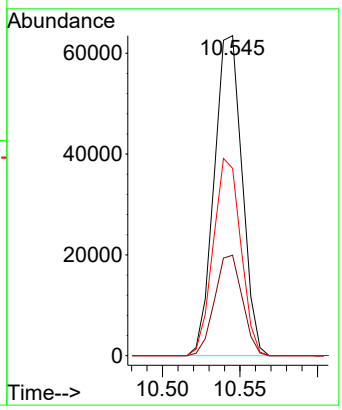




#61
4-Chlorophenyl-phenylether
Concen: 10.400 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:204 Resp: 7958

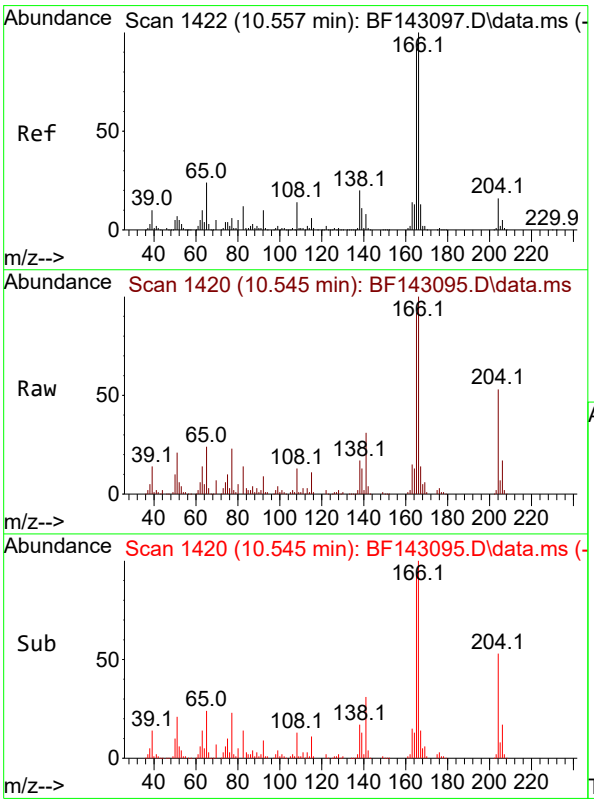
Ion	Ratio	Lower	Upper
204	100		
206	31.4	25.8	38.6
141	58.6	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

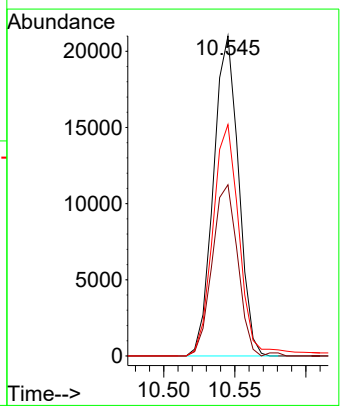
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

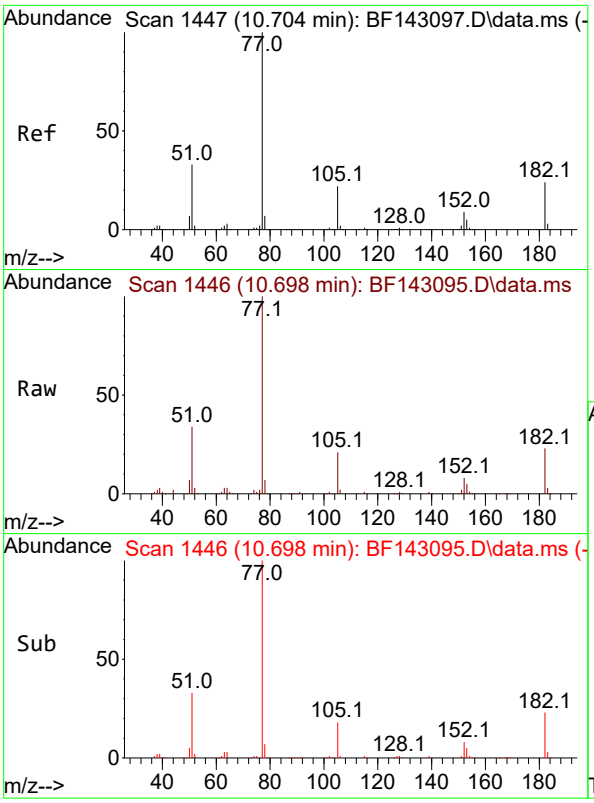


#62
4-Nitroaniline
Concen: 8.785 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:138 Resp: 25757

Ion	Ratio	Lower	Upper
138	100		
92	53.5	30.4	70.4
108	72.3	49.5	89.5

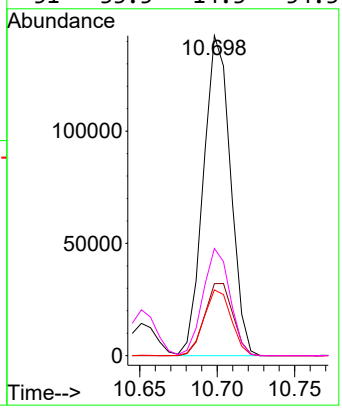




#63
Azobenzene
Concen: 10.418 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion: 77 Resp: 17343

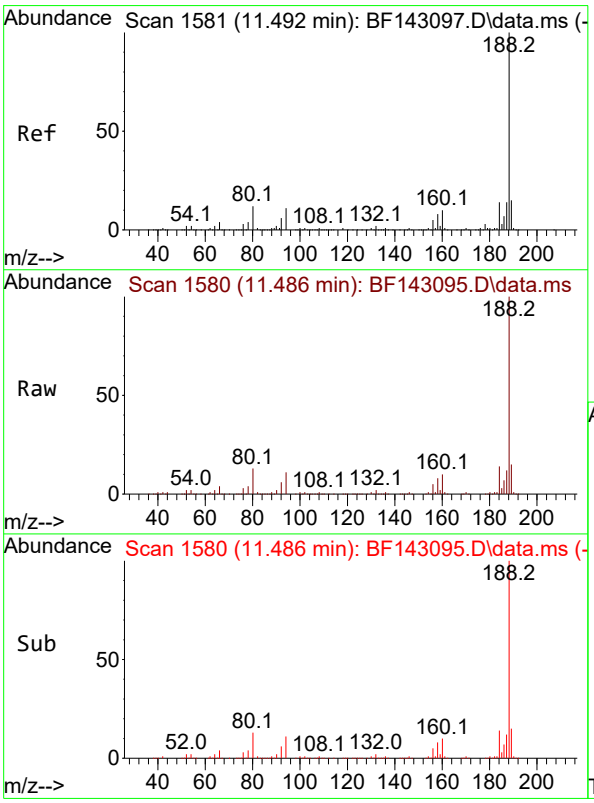
Ion	Ratio	Lower	Upper
77	100		
182	22.5	4.0	44.0
105	20.6	1.4	41.4
51	33.5	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

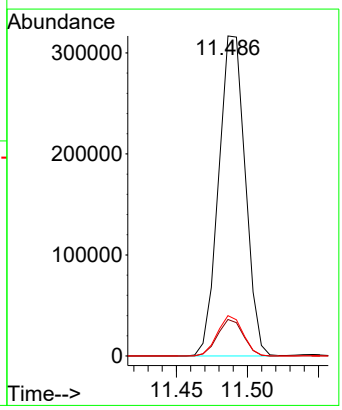
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

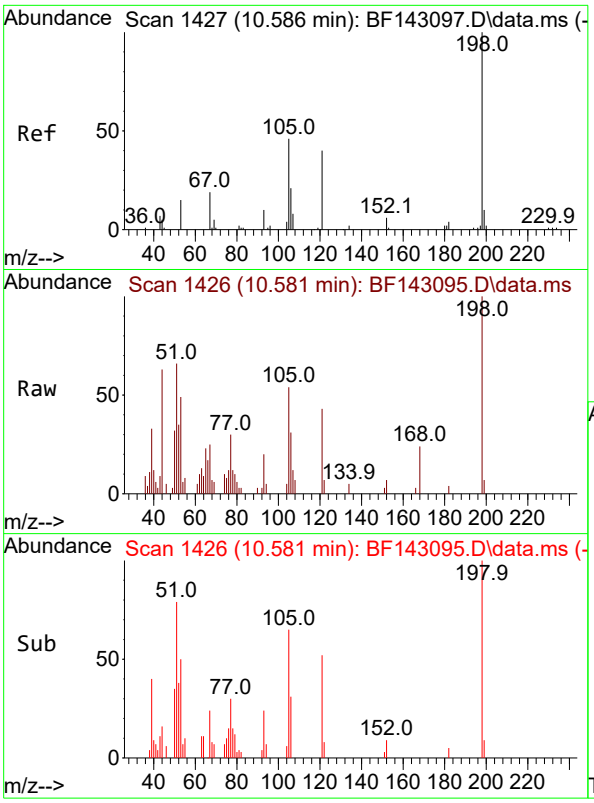


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:188 Resp: 412977

Ion	Ratio	Lower	Upper
188	100		
94	11.4	8.6	13.0
80	12.6	9.3	13.9





#65
4,6-Dinitro-2-methylphenol
Concen: 10.290 ng
RT: 10.581 min Scan# 14
Delta R.T. -0.005 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

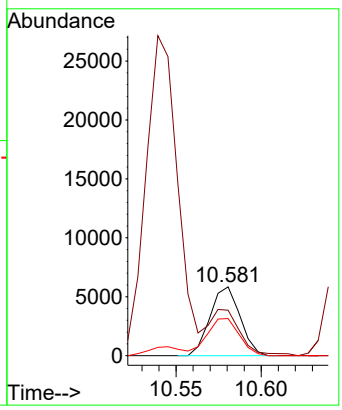
Tgt Ion:198 Resp: 715

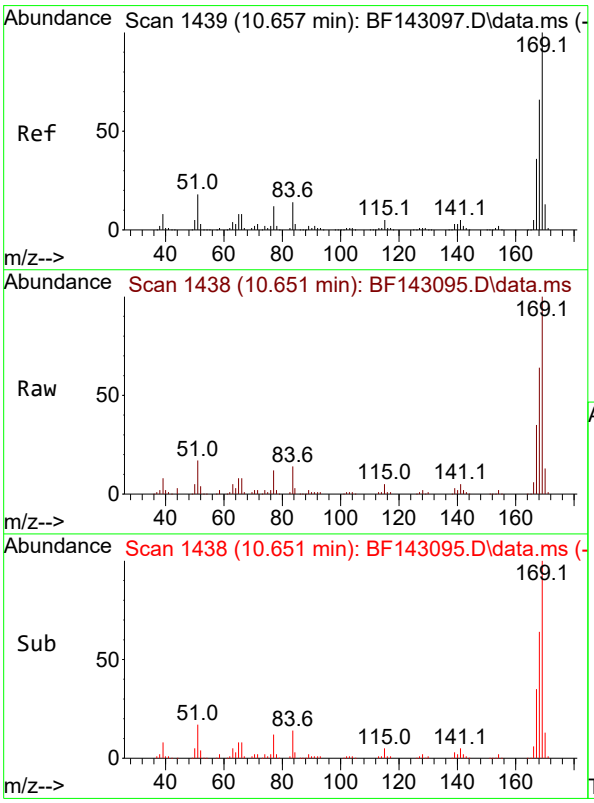
Ion	Ratio	Lower	Upper
198	100		
51	66.0	44.6	84.6
105	54.0	29.3	69.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

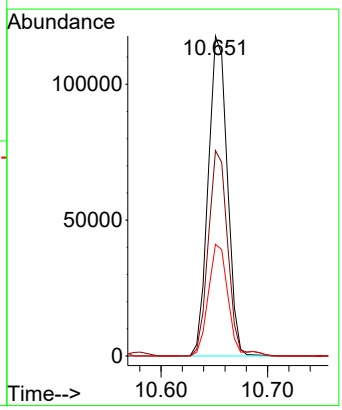


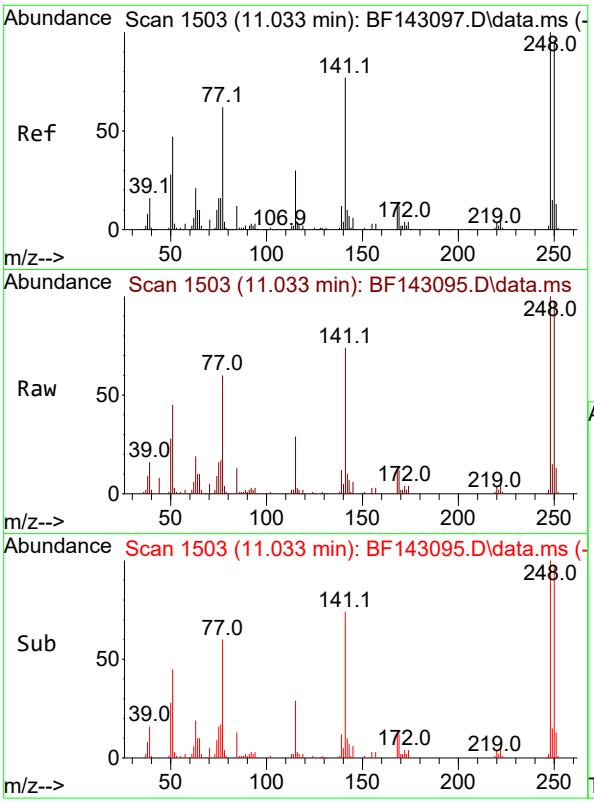


#66
n-Nitrosodiphenylamine
Concen: 10.094 ng
RT: 10.651 min Scan# 1438
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:169 Resp: 146433

Ion	Ratio	Lower	Upper
169	100		
168	64.2	53.0	79.6
167	34.9	28.4	42.6

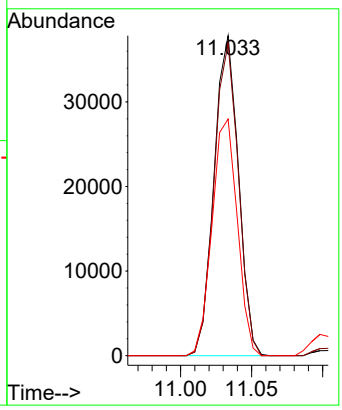




#67
4-Bromophenyl-phenylether
Concen: 9.641 ng
RT: 11.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:248 Resp: 4527

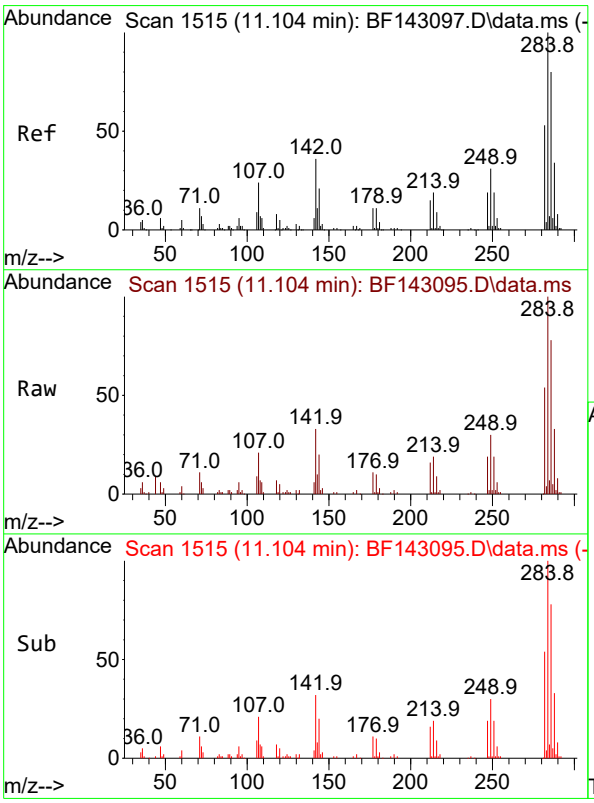
Ion	Ratio	Lower	Upper
248	100		
250	97.5	76.7	115.1
141	73.9	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

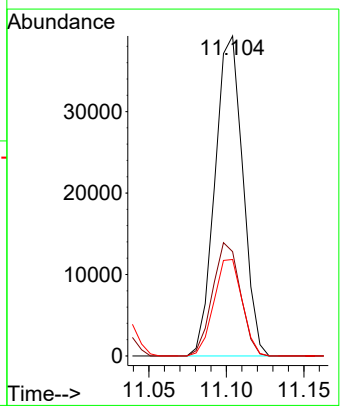
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

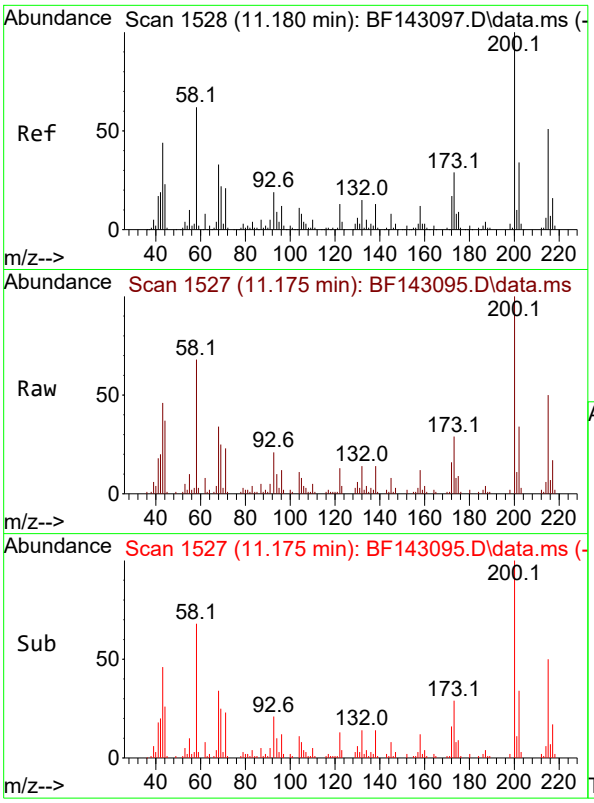


#68
Hexachlorobenzene
Concen: 9.840 ng
RT: 11.104 min Scan# 1515
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:284 Resp: 49035

Ion	Ratio	Lower	Upper
284	100		
142	32.6	28.9	43.3
249	30.1	24.6	37.0

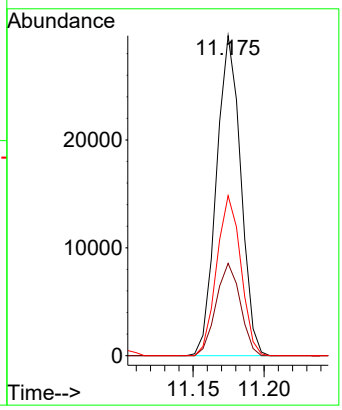




#69
Atrazine
Concen: 9.492 ng
RT: 11.175 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:200 Resp: 3523

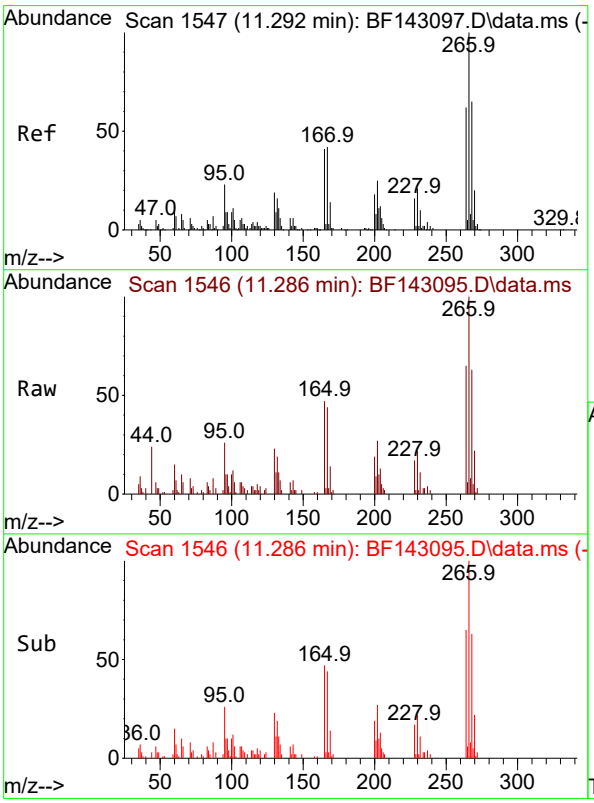
Ion	Ratio	Lower	Upper
200	100		
173	28.9	9.1	49.1
215	50.0	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

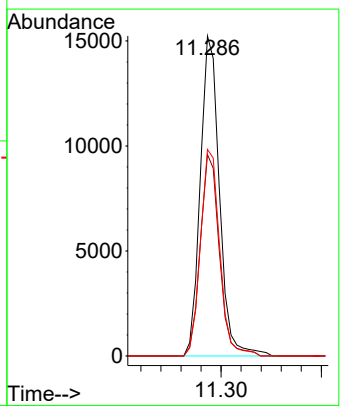
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

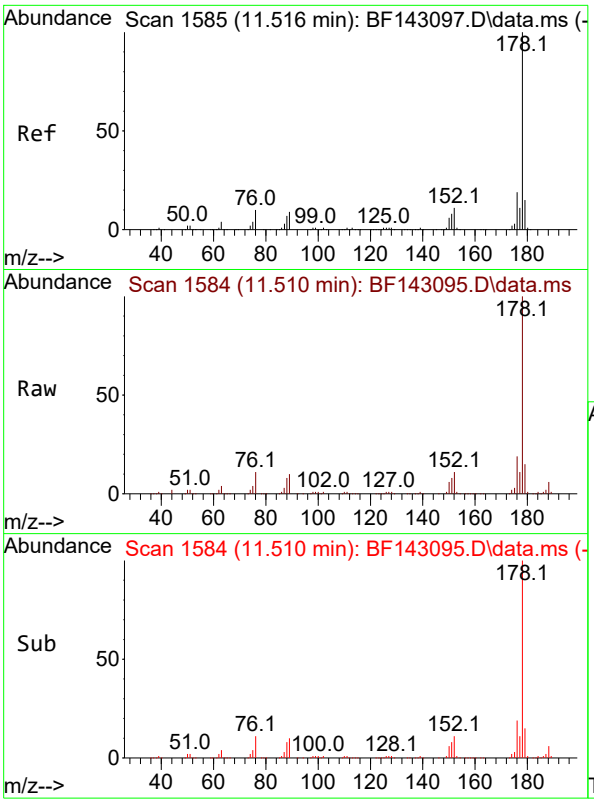


#70
Pentachlorophenol
Concen: 7.405 ng
RT: 11.286 min Scan# 1546
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:266 Resp: 20245

Ion	Ratio	Lower	Upper
266	100		
268	63.0	51.8	77.6
264	64.6	49.7	74.5

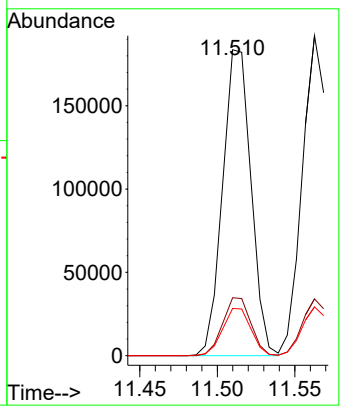




#71
Phenanthrene
Concen: 10.526 ng
RT: 11.510 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:178 Resp: 23460

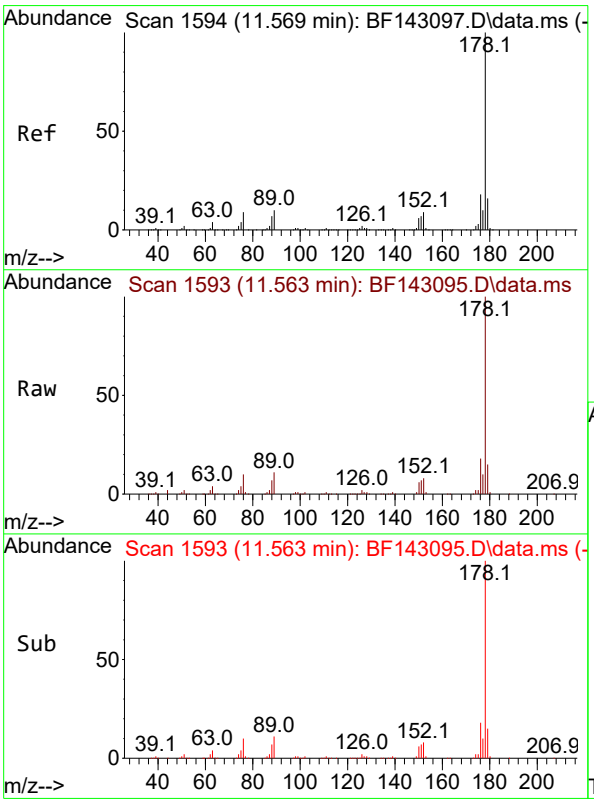
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.1	22.7
179	15.4	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

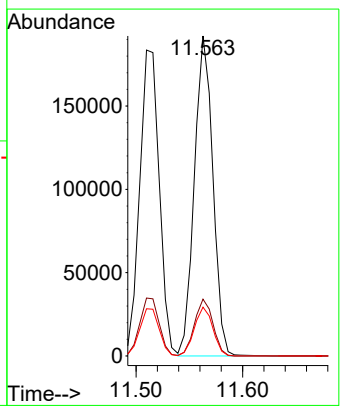
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

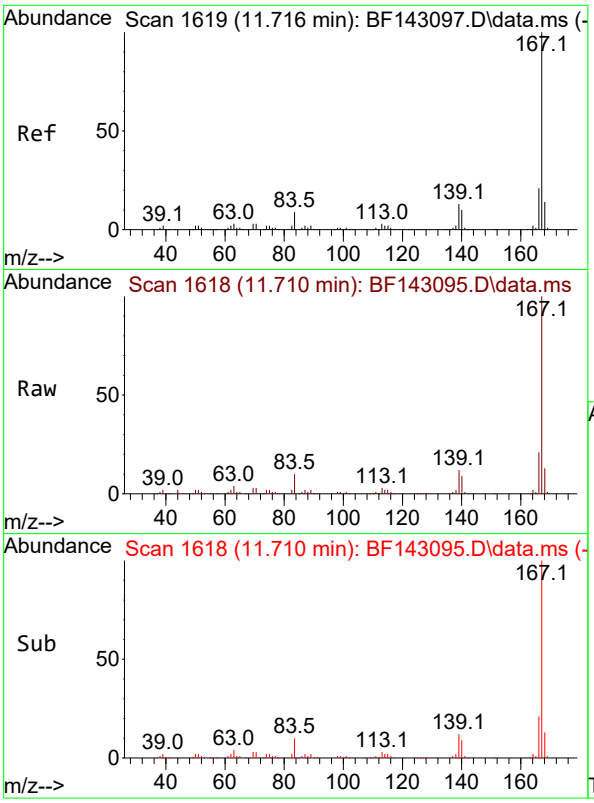


#72
Anthracene
Concen: 10.372 ng
RT: 11.563 min Scan# 1593
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:178 Resp: 232459

Ion	Ratio	Lower	Upper
178	100		
176	17.7	14.7	22.1
179	15.2	12.4	18.6

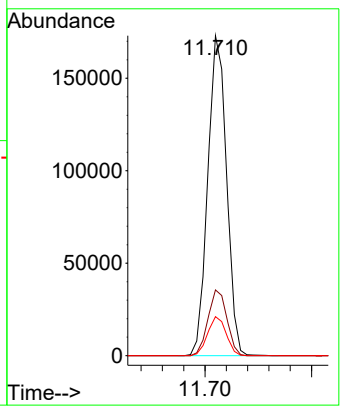




#73
Carbazole
Concen: 10.551 ng
RT: 11.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:167 Resp: 21185

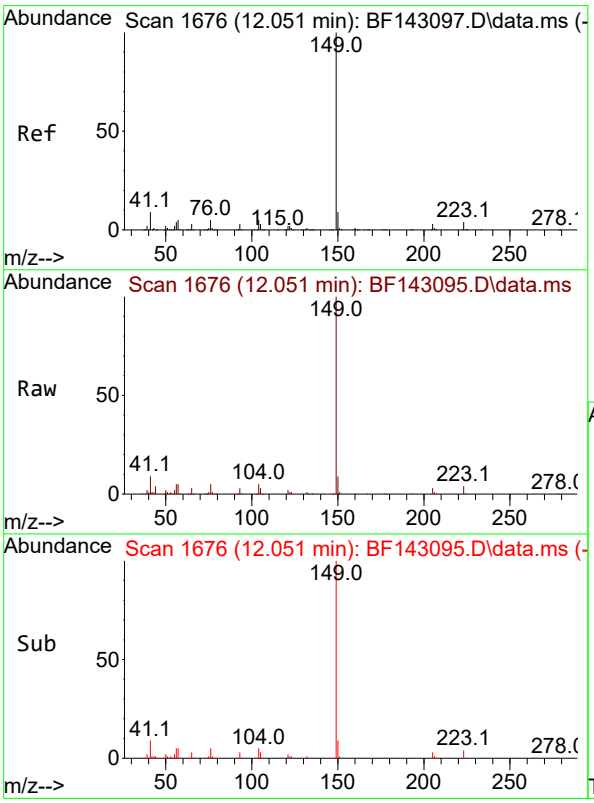
Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.0	25.4
139	12.2	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

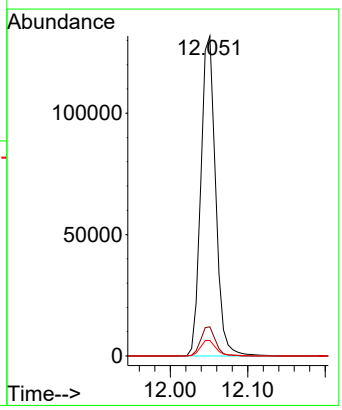
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

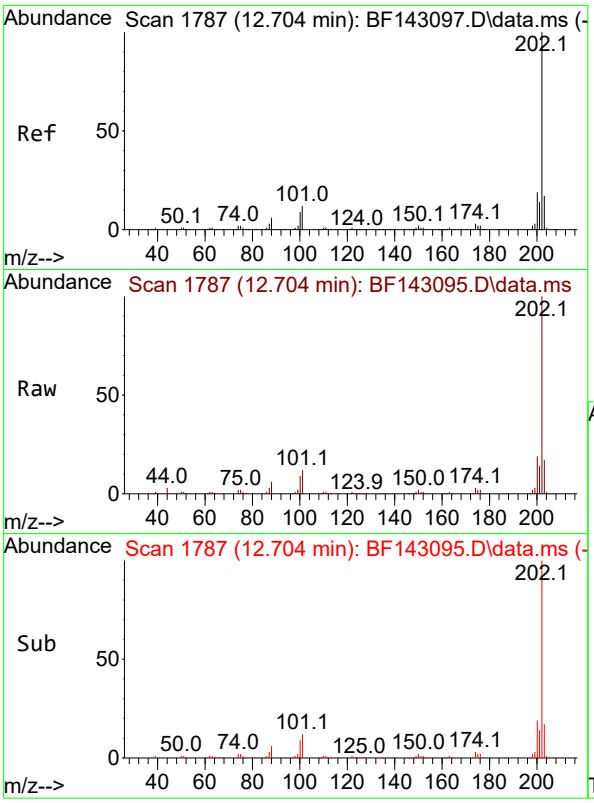


#74
Di-n-butylphthalate
Concen: 9.475 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:149 Resp: 174639

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.8	3.8	5.8

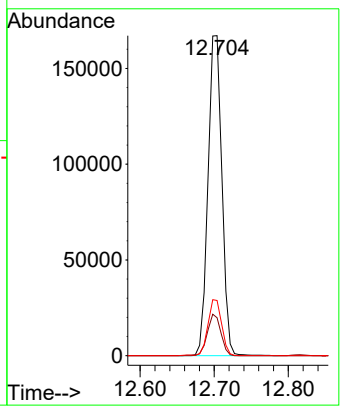




#75
Fluoranthene
Concen: 10.725 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:202 Resp: 21734

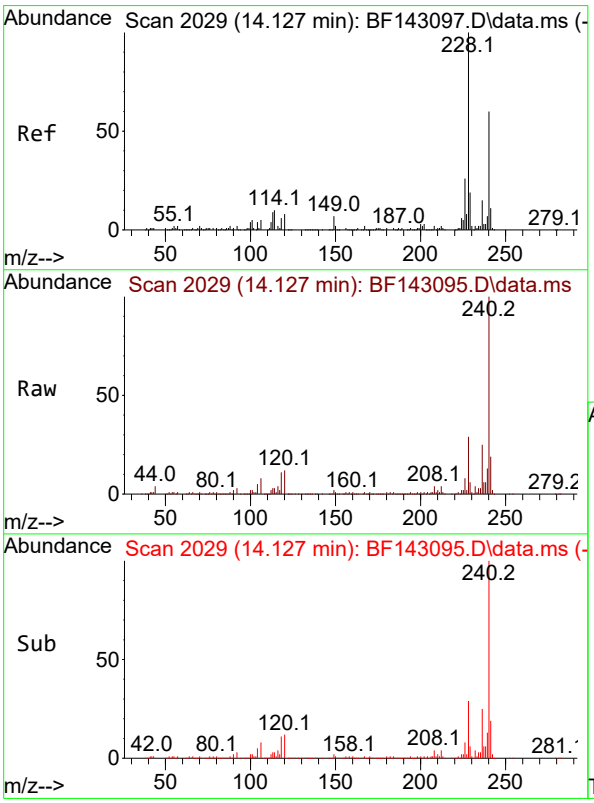
Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	32.4
203	17.3	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

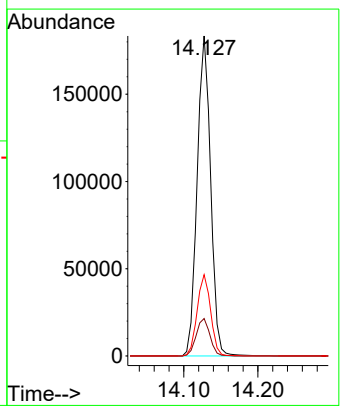
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

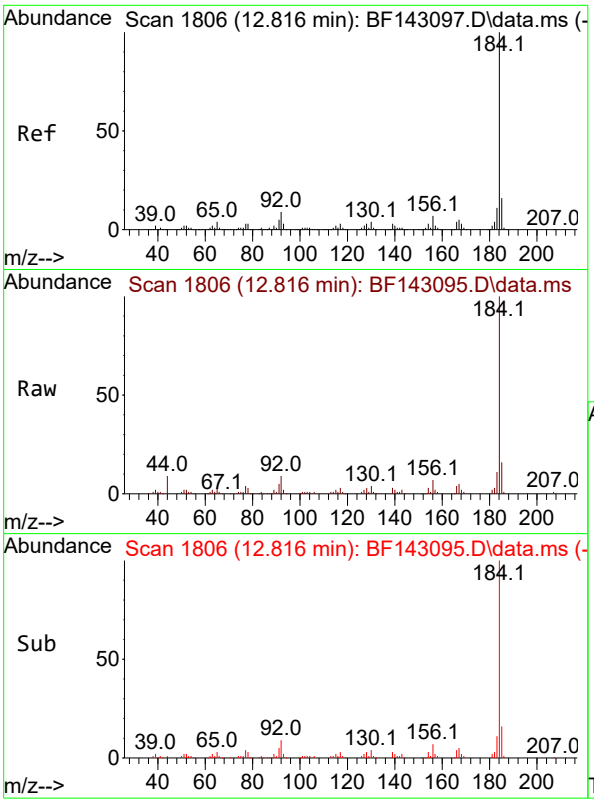


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:240 Resp: 231826

Ion	Ratio	Lower	Upper
240	100		
120	11.7	10.0	15.0
236	25.4	20.0	30.0

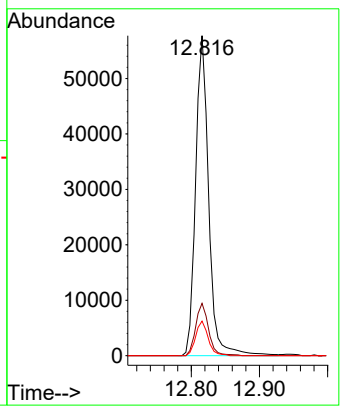




#77
Benzidine
Concen: 9.747 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:184 Resp: 7697

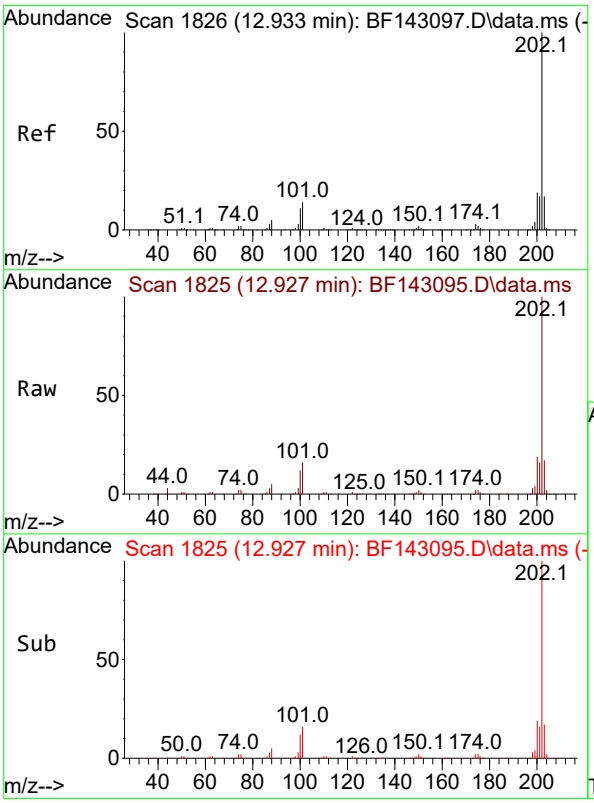
Ion	Ratio	Lower	Upper
184	100		
185	16.4	12.4	18.6
183	10.8	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

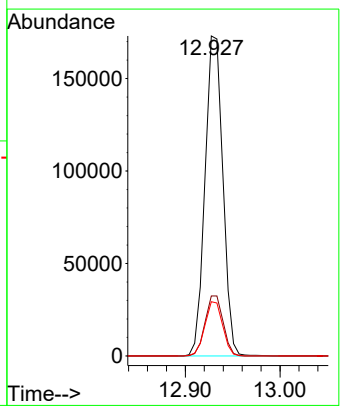
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

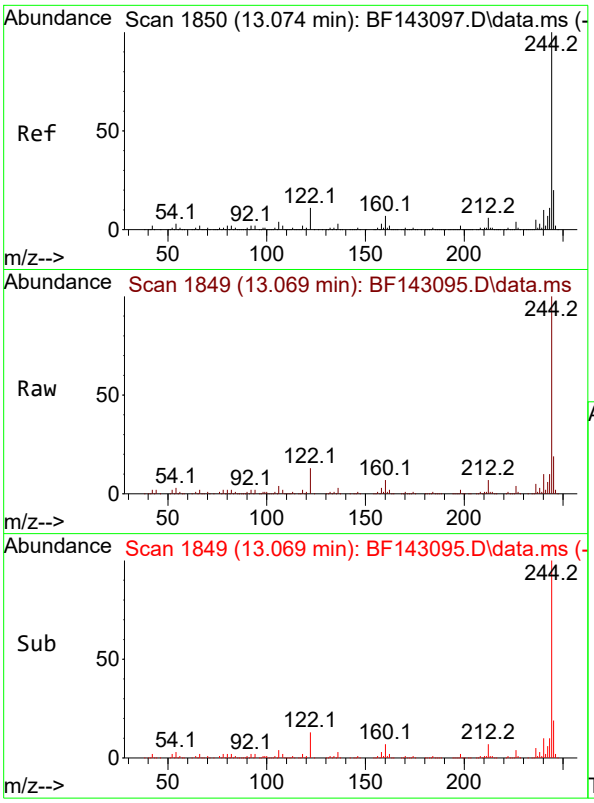


#78
Pyrene
Concen: 10.542 ng
RT: 12.927 min Scan# 1825
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:202 Resp: 226752

Ion	Ratio	Lower	Upper
202	100		
200	18.8	15.5	23.3
203	16.9	14.0	21.0

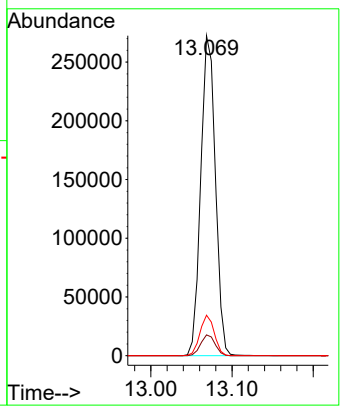




#79
Terphenyl-d14
Concen: 21.502 ng
RT: 13.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:244 Resp: 34099

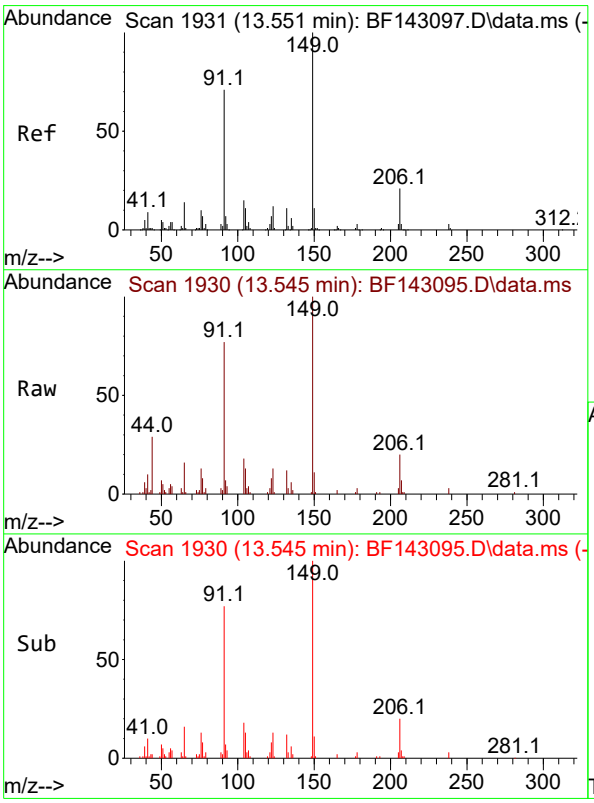
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	12.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

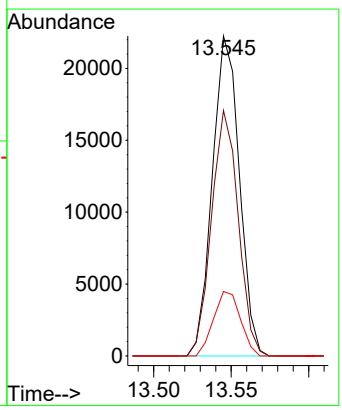
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

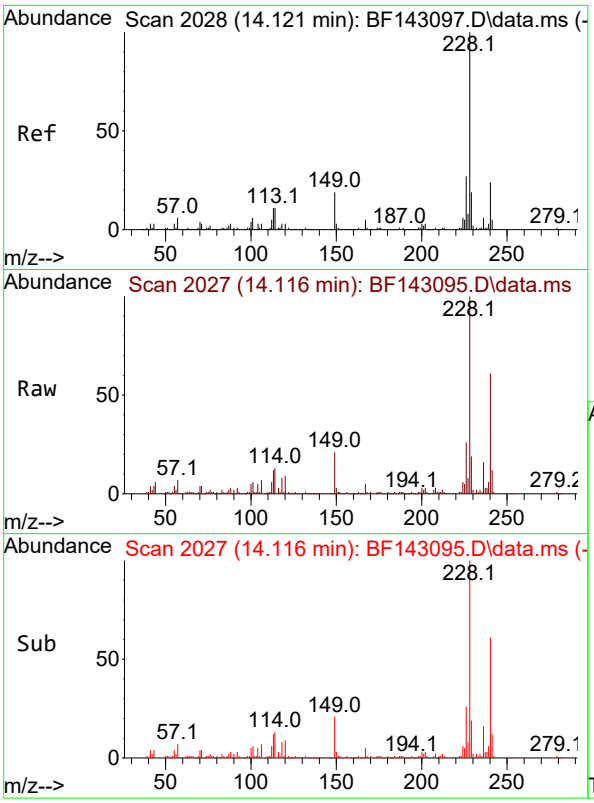


#80
Butylbenzylphthalate
Concen: 9.210 ng
RT: 13.545 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:149 Resp: 26977

Ion	Ratio	Lower	Upper
149	100		
91	76.7	57.0	85.4
206	20.2	17.2	25.8

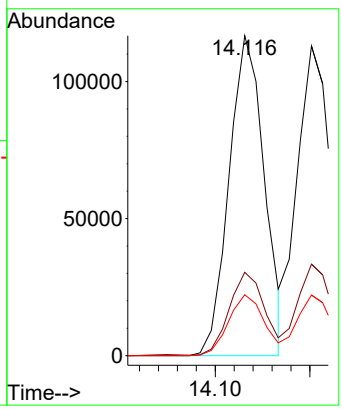




#81
Benzo(a)anthracene
Concen: 9.781 ng
RT: 14.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:228 Resp: 151099

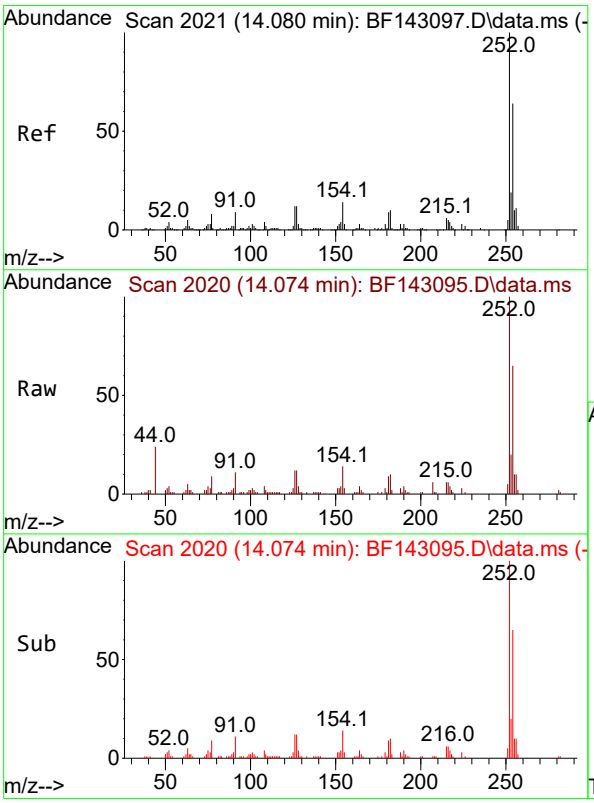
Ion	Ratio	Lower	Upper
228	100		
226	26.0	21.3	31.9
229	19.0	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

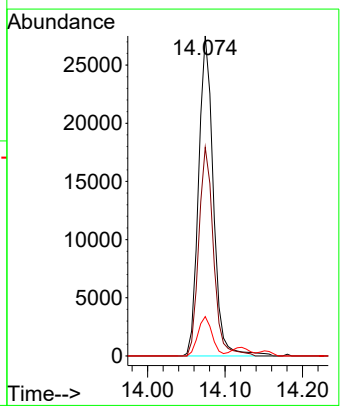
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

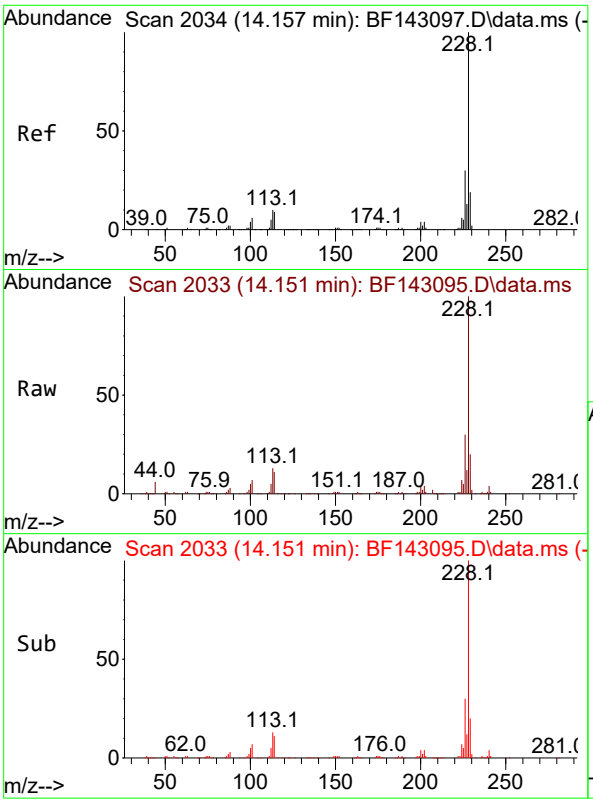


#82
3,3'-Dichlorobenzidine
Concen: 8.122 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:252 Resp: 36435

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.5	77.3
126	12.3	9.4	14.0





#83
Chrysene
Concen: 10.050 ng
RT: 14.151 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

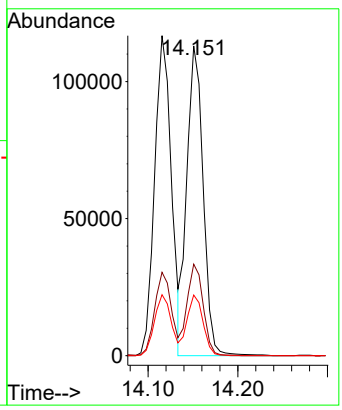
Tgt Ion:228 Resp: 14299(

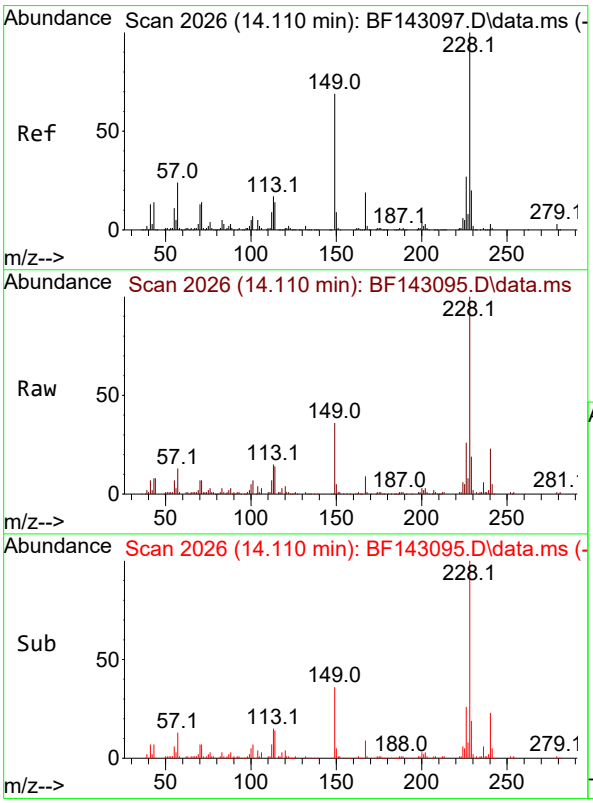
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.4	35.2
229	19.6	15.3	22.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

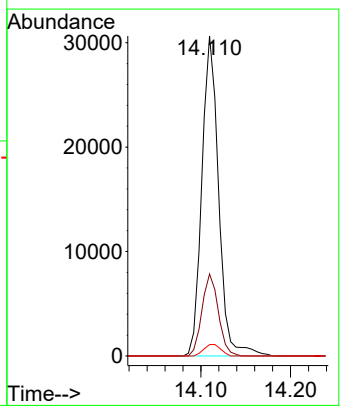


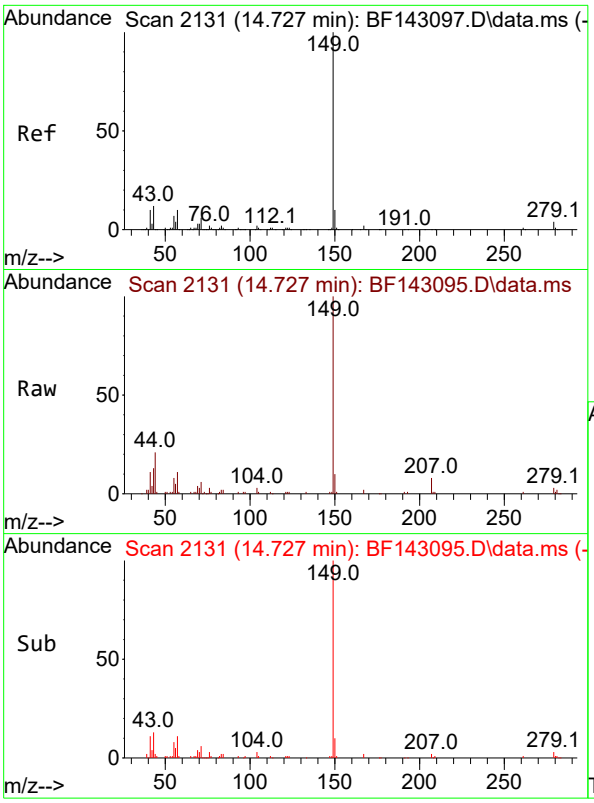


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.073 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:149 Resp: 39724

Ion	Ratio	Lower	Upper
149	100		
167	25.6	21.9	32.9
279	3.6	3.4	5.0

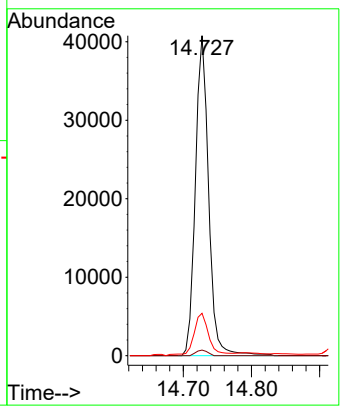




#85
Di-n-octyl phthalate
Concen: 10.526 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:149 Resp: 5495

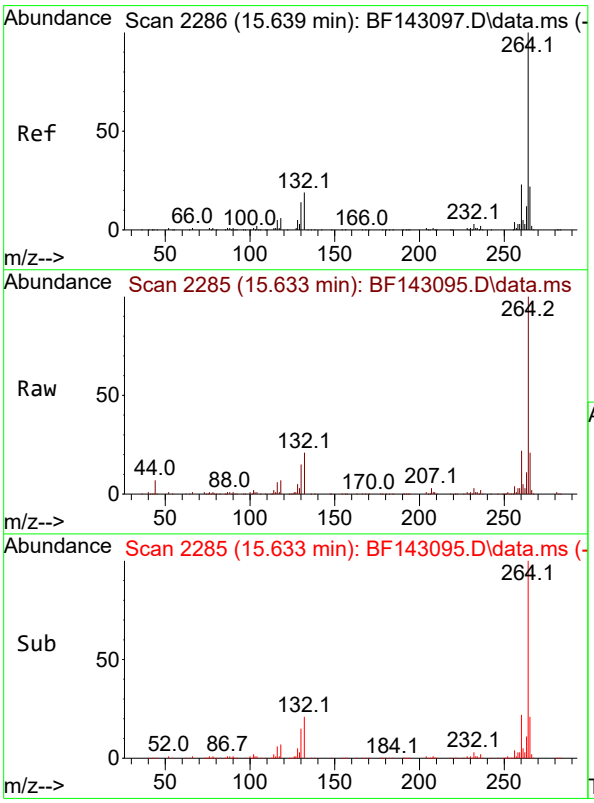
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	15.1	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

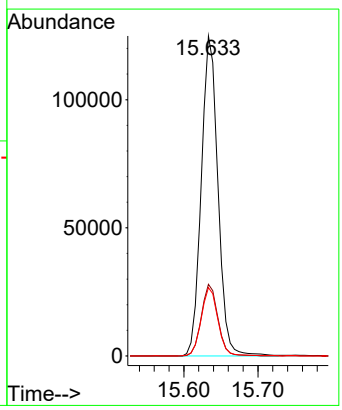
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

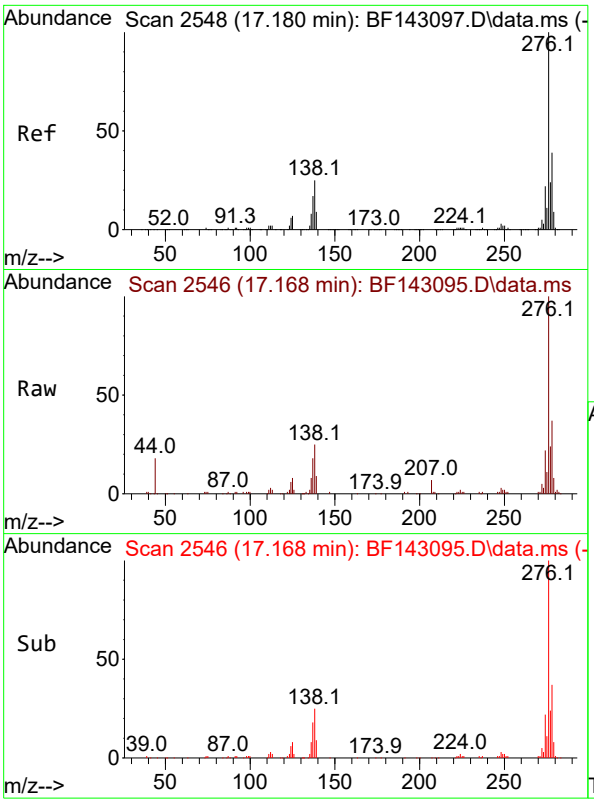


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:264 Resp: 195100

Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.5	27.7
265	21.4	17.5	26.3

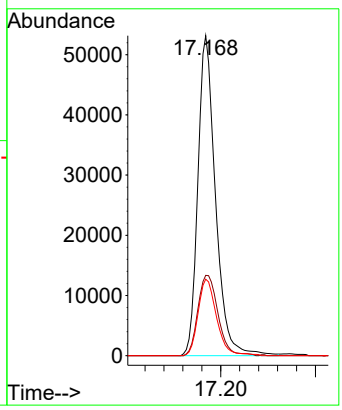




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.484 ng
RT: 17.168 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:276 Resp: 13762

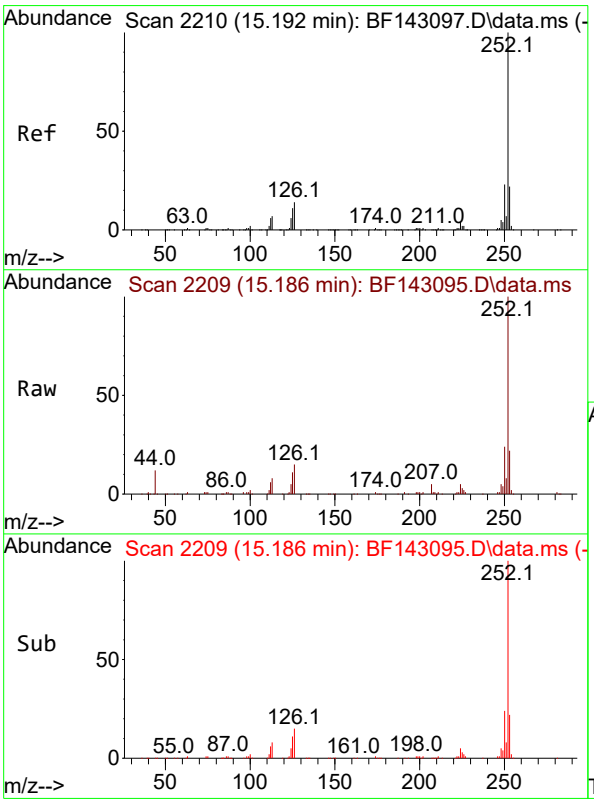
Ion	Ratio	Lower	Upper
276	100		
138	28.5	22.6	34.0
277	25.1	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

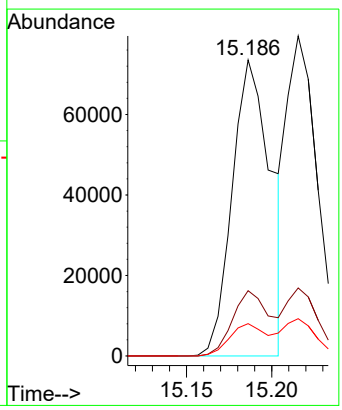
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

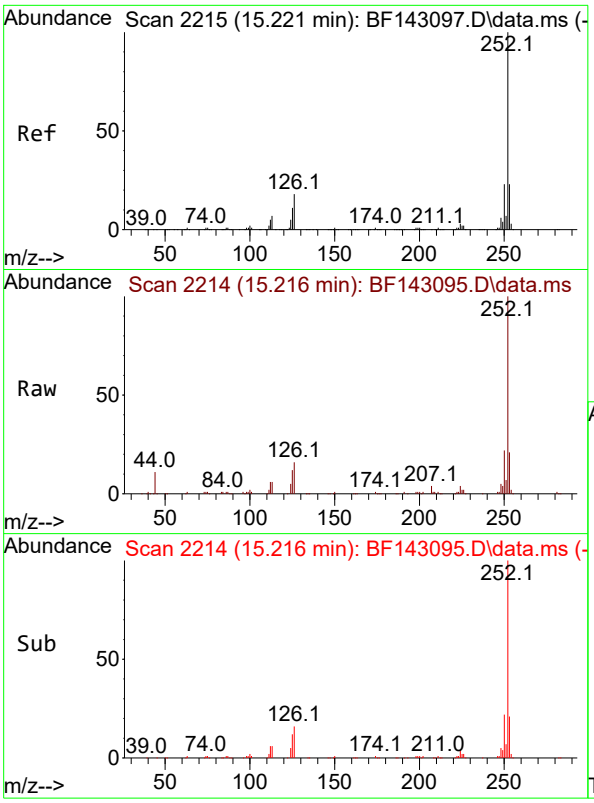


#88
Benzo(b)fluoranthene
Concen: 10.321 ng
RT: 15.186 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:252 Resp: 116154

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.9	8.6	13.0

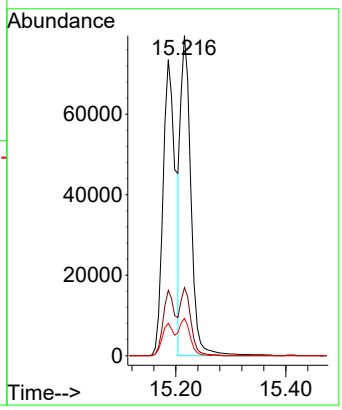




#89
Benzo(k)fluoranthene
Concen: 9.686 ng
RT: 15.216 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:252 Resp: 10399

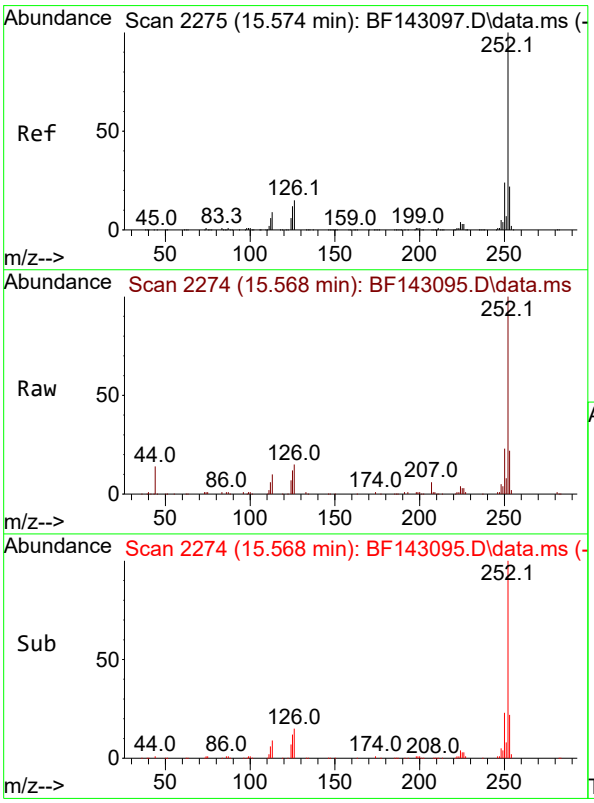
Ion	Ratio	Lower	Upper
252	100		
253	21.2	17.4	26.2
125	11.6	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

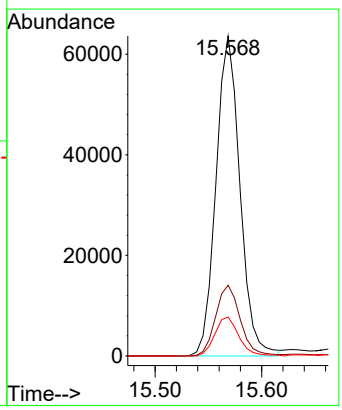
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

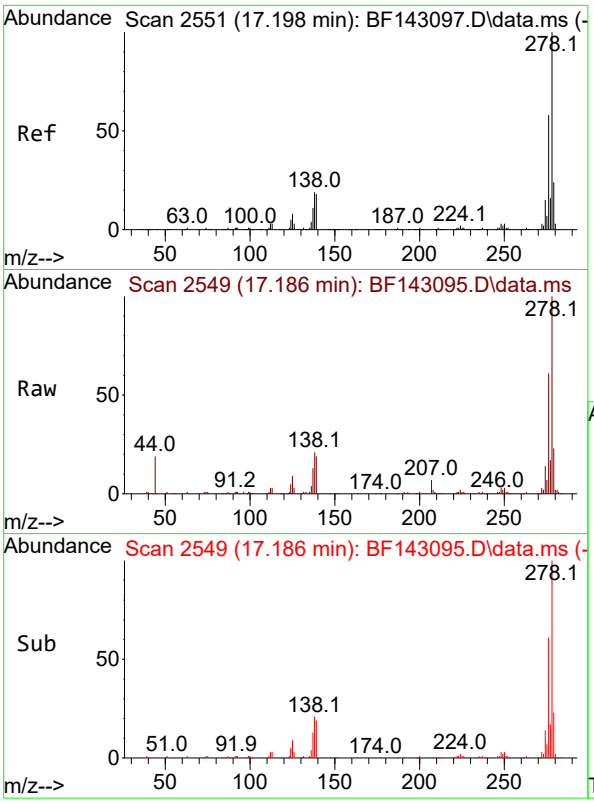


#90
Benzo(a)pyrene
Concen: 9.336 ng
RT: 15.568 min Scan# 2274
Delta R.T. -0.006 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:252 Resp: 99366

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	12.1	9.4	14.0

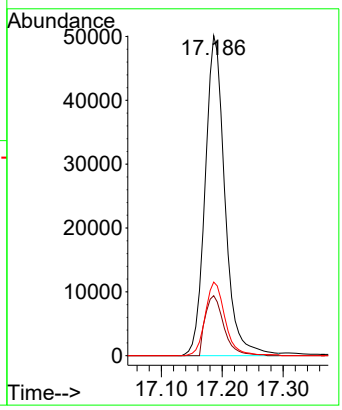




#91
Dibenzo(a,h)anthracene
Concen: 9.553 ng
RT: 17.186 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:278 Resp: 11331

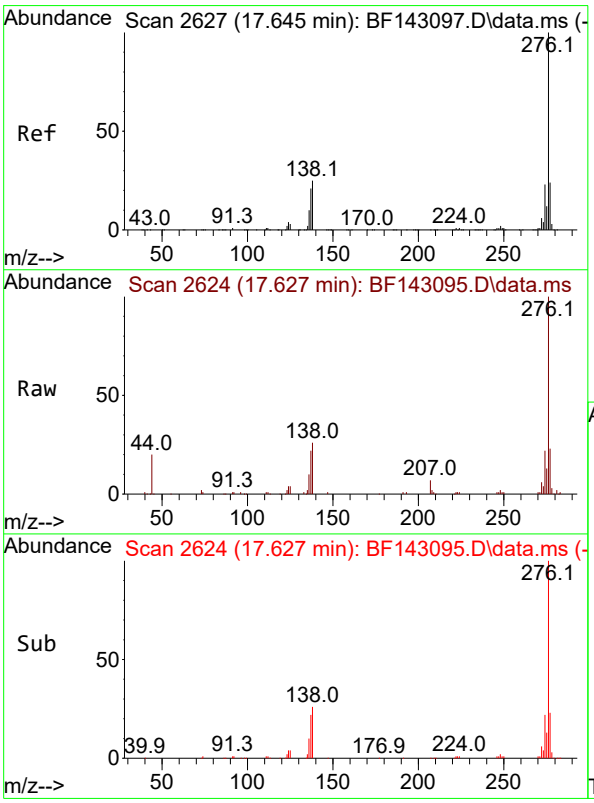
Ion	Ratio	Lower	Upper
278	100		
139	18.7	14.6	22.0
279	23.0	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

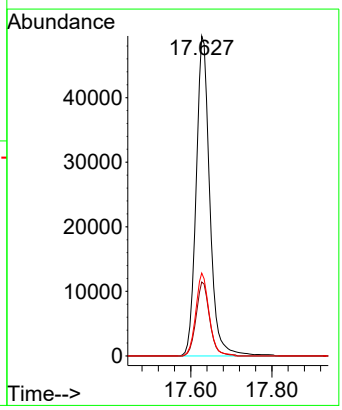
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 9.577 ng
RT: 17.627 min Scan# 2624
Delta R.T. -0.018 min
Lab File: BF143095.D
Acq: 15 Jul 2025 14:05

Tgt Ion:276 Resp: 115816

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.2	28.8
138	25.9	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143096.D
Acq On : 15 Jul 2025 14:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	153233	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	579905	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	283300	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	451524	20.000	ng	0.00
76) Chrysene-d12	14.127	240	236667	20.000	ng	0.00
86) Perylene-d12	15.633	264	262419	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	402974	41.549	ng	0.00
7) Phenol-d6	6.581	99	502651	41.231	ng	0.00
23) Nitrobenzene-d5	7.522	82	420674m	40.693	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	102277	40.489	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	907497	42.581	ng	0.00
79) Terphenyl-d14	13.074	244	680179	42.012	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.810	88	98010	20.301	ng	99
3) Pyridine	3.581	79	247677	20.259	ng	99
4) n-Nitrosodimethylamine	3.516	42	126355	19.948	ng	100
6) Aniline	6.628	93	349337	20.349	ng	100
8) 2-Chlorophenol	6.751	128	202437	20.775	ng	98
9) Benzaldehyde	6.516	77	176058	18.952	ng	99
10) Phenol	6.592	94	273102m	20.693	ng	
11) bis(2-Chloroethyl)ether	6.692	93	209360	20.491	ng	98
12) 1,3-Dichlorobenzene	6.910	146	225218	20.458	ng	99
13) 1,4-Dichlorobenzene	6.987	146	230409	20.804	ng	99
14) 1,2-Dichlorobenzene	7.139	146	219102	20.745	ng	99
15) Benzyl Alcohol	7.098	79	184535	20.428	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.239	45	387425	20.571	ng	100
17) 2-Methylphenol	7.204	107	172219	20.480	ng	99
18) Hexachloroethane	7.486	117	74466	20.654	ng	100
19) n-Nitroso-di-n-propyla...	7.369	70	153555	20.559	ng	98
20) 3+4-Methylphenols	7.357	107	217393	21.080	ng	91
22) Acetophenone	7.369	105	289716	20.725	ng	98
24) Nitrobenzene	7.539	77	206781	20.721	ng	98
25) Isophorone	7.781	82	404382	20.239	ng	100
26) 2-Nitrophenol	7.857	139	61544	18.099	ng	98
27) 2,4-Dimethylphenol	7.886	122	188840	20.363	ng	99
28) bis(2-Chloroethoxy)met...	7.986	93	252183	20.814	ng	99
29) 2,4-Dichlorophenol	8.098	162	154978	20.427	ng	98
30) 1,2,4-Trichlorobenzene	8.186	180	177770	20.647	ng	99
31) Naphthalene	8.269	128	601316	20.881	ng	100
32) Benzoic acid	7.963	122	64517m	18.587	ng	
33) 4-Chloroaniline	8.310	127	239869	20.714	ng	98
34) Hexachlorobutadiene	8.392	225	106359	20.655	ng	100
35) Caprolactam	8.657	113	45418	19.171	ng	98
36) 4-Chloro-3-methylphenol	8.781	107	171615	20.307	ng	99
37) 2-Methylnaphthalene	8.963	142	356378	20.744	ng	100
38) 1-Methylnaphthalene	9.063	142	365700	20.524	ng	99
40) 1,2,4,5-Tetrachloroben...	9.128	216	170678	20.673	ng	98
41) Hexachlorocyclopentadiene	9.122	237	86596	18.918	ng	98
43) 2,4,6-Trichlorophenol	9.233	196	106780	20.815	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143096.D
Acq On : 15 Jul 2025 14:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 17:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.269	196	110466	20.537	ng	99
46) 1,1'-Biphenyl	9.422	154	473419	20.955	ng	100
47) 2-Chloronaphthalene	9.451	162	341636	20.584	ng	100
48) 2-Nitroaniline	9.533	65	83805	18.969	ng	99
49) Acenaphthylene	9.863	152	576265	20.837	ng	100
50) Dimethylphthalate	9.716	163	366019	20.536	ng	100
51) 2,6-Dinitrotoluene	9.775	165	62776	19.583	ng	96
52) Acenaphthene	10.039	154	332427	20.369	ng	100
53) 3-Nitroaniline	9.939	138	80094	20.797	ng	100
54) 2,4-Dinitrophenol	10.045	184	15826	19.749	ng	71
55) Dibenzofuran	10.210	168	505784	20.792	ng	100
56) 4-Nitrophenol	10.086	139	57072	18.647	ng	98
57) 2,4-Dinitrotoluene	10.175	165	71762	18.561	ng	95
58) Fluorene	10.551	166	376169	20.626	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.322	232	85620	20.030	ng	98
60) Diethylphthalate	10.422	149	356111	20.710	ng	100
61) 4-Chlorophenyl-phenyle...	10.545	204	178641	20.436	ng	98
62) 4-Nitroaniline	10.551	138	67264	20.084	ng	98
63) Azobenzene	10.704	77	389419	20.478	ng	100
65) 4,6-Dinitro-2-methylph...	10.580	198	23973	19.643	ng	94
66) n-Nitrosodiphenylamine	10.657	169	332248	20.948	ng	98
67) 4-Bromophenyl-phenylether	11.033	248	105446	20.535	ng	98
68) Hexachlorobenzene	11.104	284	111727	20.507	ng	98
69) Atrazine	11.180	200	83181	20.499	ng	99
70) Pentachlorophenol	11.292	266	56380	18.862	ng	98
71) Phenanthrene	11.516	178	501521	20.581	ng	99
72) Anthracene	11.569	178	508525	20.752	ng	100
73) Carbazole	11.716	167	455047	20.728	ng	99
74) Di-n-butylphthalate	12.051	149	412206	20.456	ng	99
75) Fluoranthene	12.704	202	455455	20.556	ng	100
77) Benzidine	12.816	184	186115	23.083	ng	99
78) Pyrene	12.933	202	462715	21.072	ng	99
80) Butylbenzylphthalate	13.545	149	73439	18.875	ng	96
81) Benzo(a)anthracene	14.115	228	332795	21.102	ng	100
82) 3,3'-Dichlorobenzidine	14.074	252	96174	21.000	ng	99
83) Chrysene	14.157	228	286610	19.732	ng	100
84) Bis(2-ethylhexyl)phtha...	14.110	149	113349	19.236	ng	98
85) Di-n-octyl phthalate	14.727	149	192002	19.817	ng	99
87) Indeno(1,2,3-cd)pyrene	17.174	276	400422	20.516	ng	99
88) Benzo(b)fluoranthene	15.186	252	307312	20.302	ng	99
89) Benzo(k)fluoranthene	15.215	252	291618	20.194	ng	99
90) Benzo(a)pyrene	15.568	252	290809	20.313	ng	99
91) Dibenzo(a,h)anthracene	17.192	278	332152	20.818	ng	99
92) Benzo(g,h,i)perylene	17.639	276	331447	20.376	ng	99

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

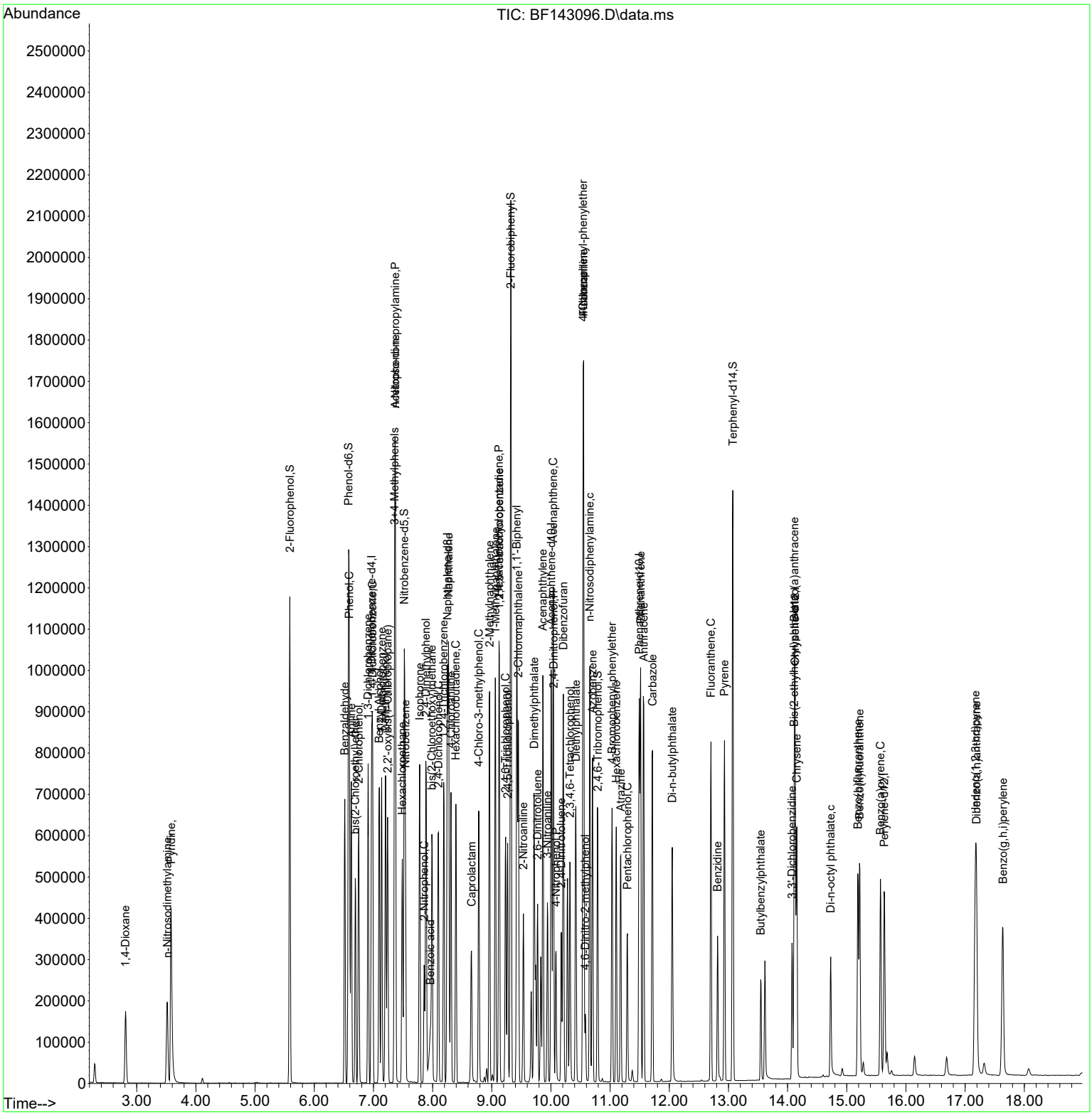
ICAL Form

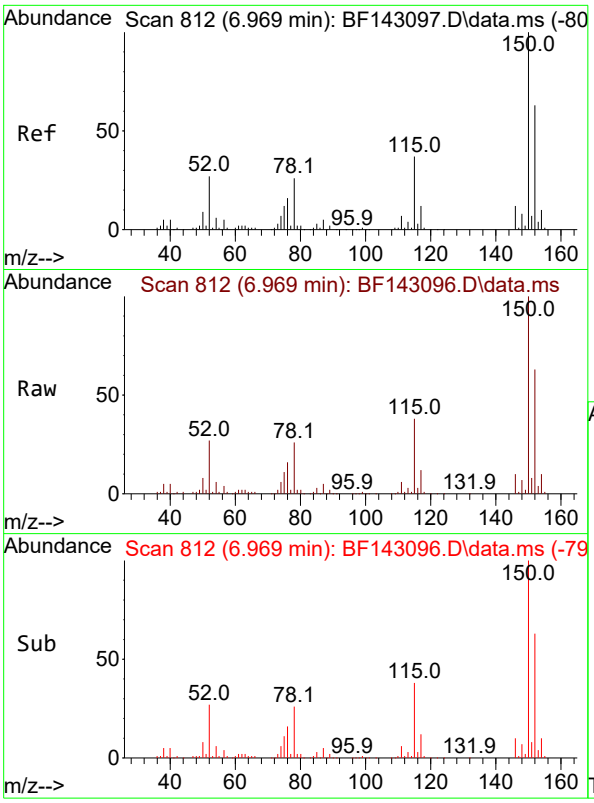
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143096.D
Acq On : 15 Jul 2025 14:36
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 15 17:39:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

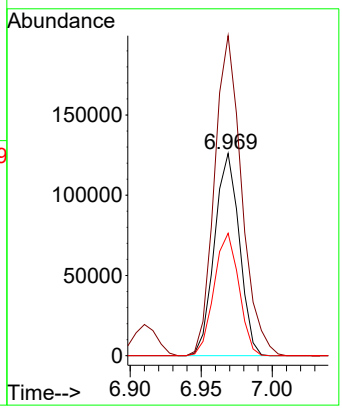




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:152 Resp: 15323

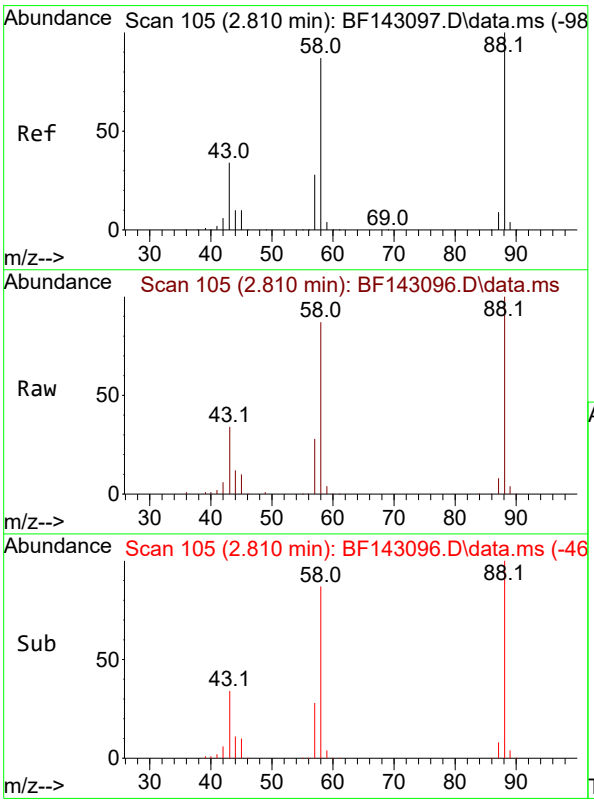
Ion	Ratio	Lower	Upper
152	100		
150	158.3	126.5	189.7
115	60.6	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

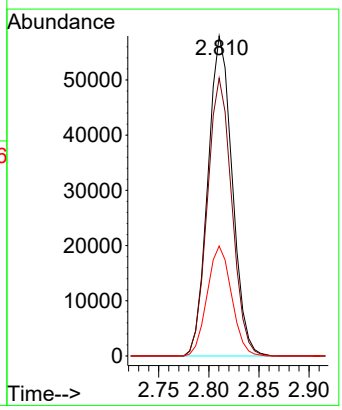
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

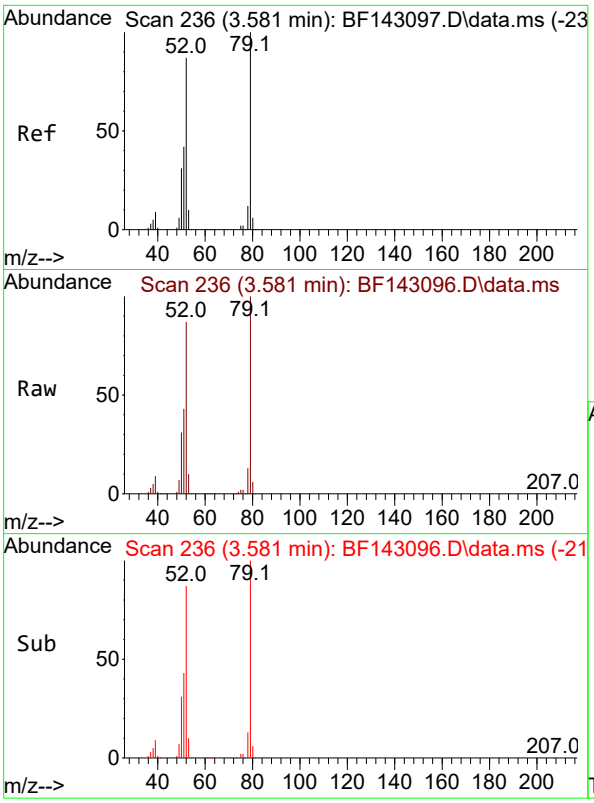


#2
1,4-Dioxane
Concen: 20.301 ng
RT: 2.810 min Scan# 105
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 88 Resp: 98010

Ion	Ratio	Lower	Upper
88	100		
58	87.1	70.5	105.7
43	34.3	27.3	40.9

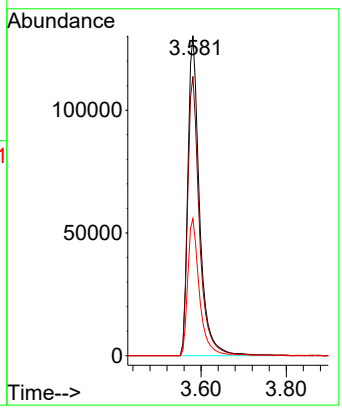




#3
Pyridine
Concen: 20.259 ng
RT: 3.581 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 79 Resp: 24767

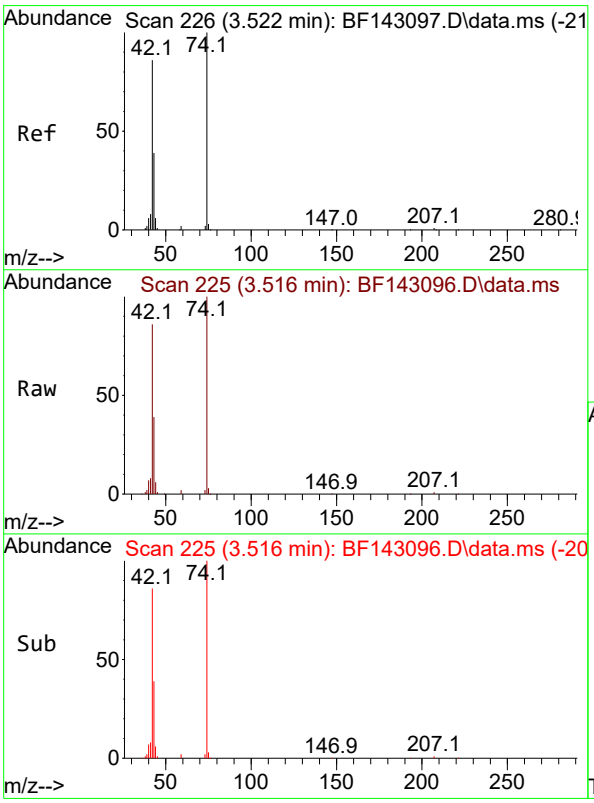
Ion	Ratio	Lower	Upper
79	100		
52	87.3	69.2	103.8
51	42.8	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

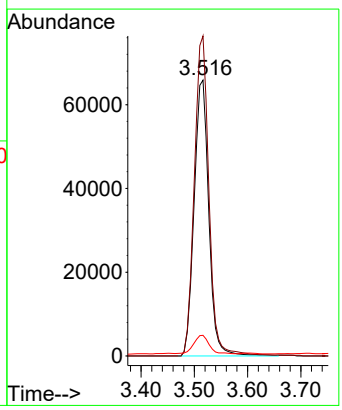
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

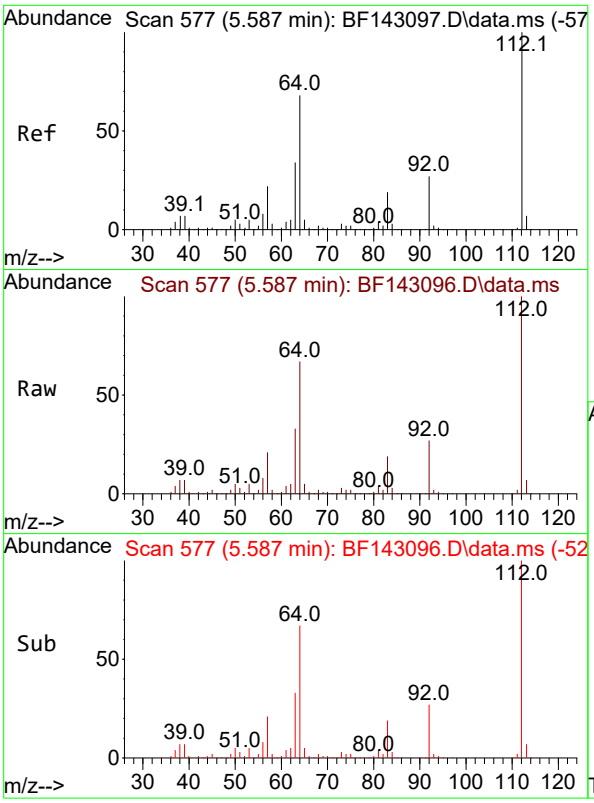


#4
n-Nitrosodimethylamine
Concen: 19.948 ng
RT: 3.516 min Scan# 225
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 42 Resp: 126355

Ion	Ratio	Lower	Upper
42	100		
74	116.0	92.8	139.2
44	7.5	5.8	8.6

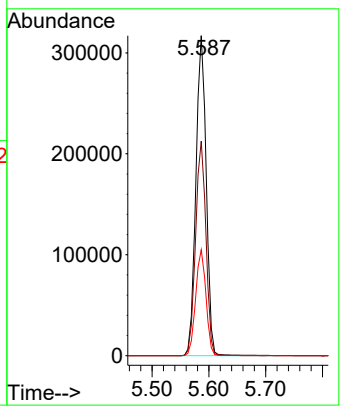




#5
2-Fluorophenol
Concen: 41.549 ng
RT: 5.587 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:112 Resp: 40297

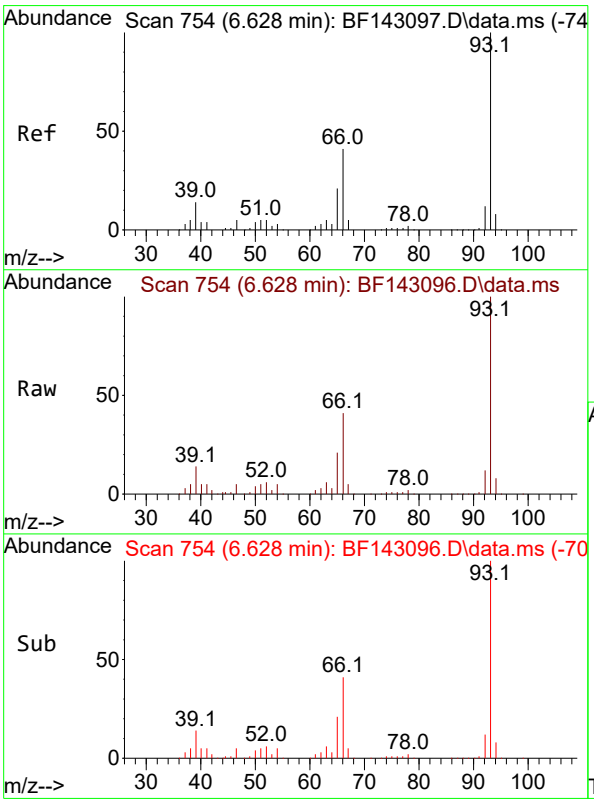
Ion	Ratio	Lower	Upper
112	100		
64	67.1	54.6	82.0
63	33.1	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

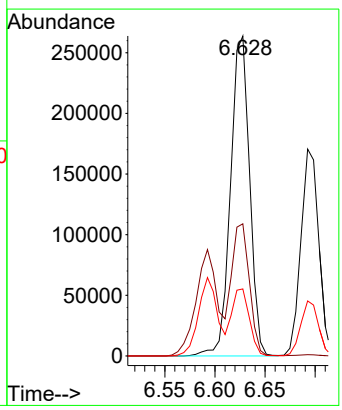
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

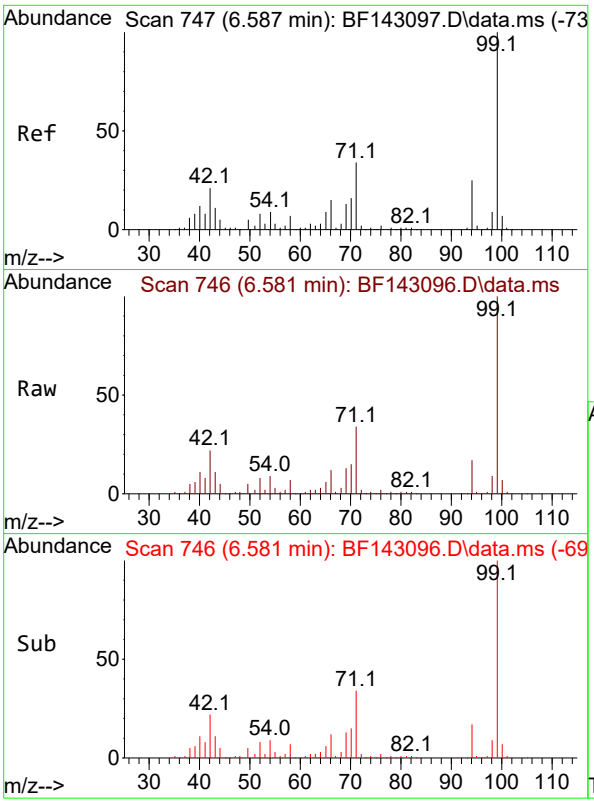


#6
Aniline
Concen: 20.349 ng
RT: 6.628 min Scan# 754
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 93 Resp: 349337

Ion	Ratio	Lower	Upper
93	100		
66	41.3	33.1	49.7
65	20.9	16.9	25.3

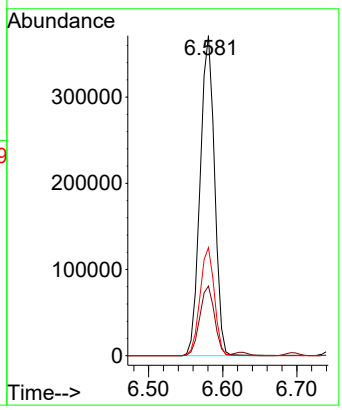




#7
Phenol-d6
Concen: 41.231 ng
RT: 6.581 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 99 Resp: 50265

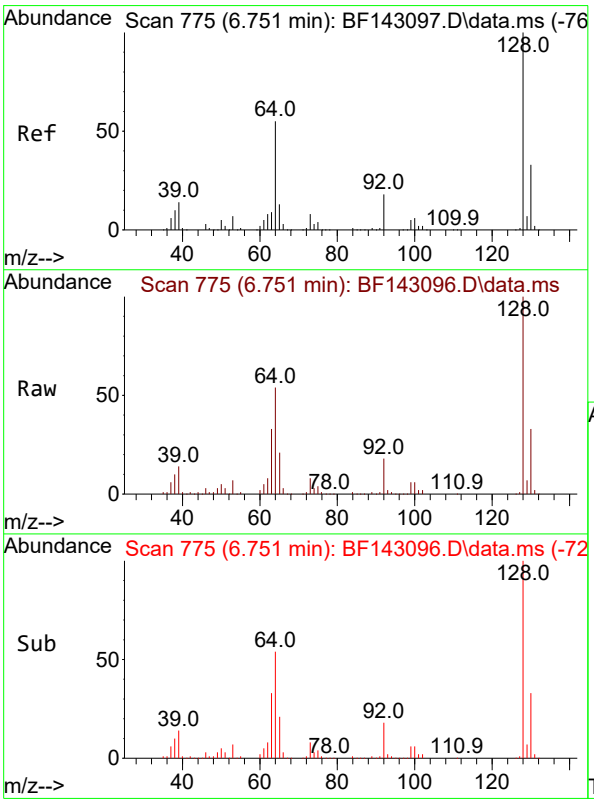
Ion	Ratio	Lower	Upper
99	100		
42	21.8	17.2	25.8
71	33.8	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

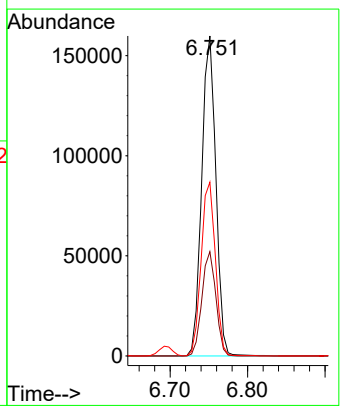
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

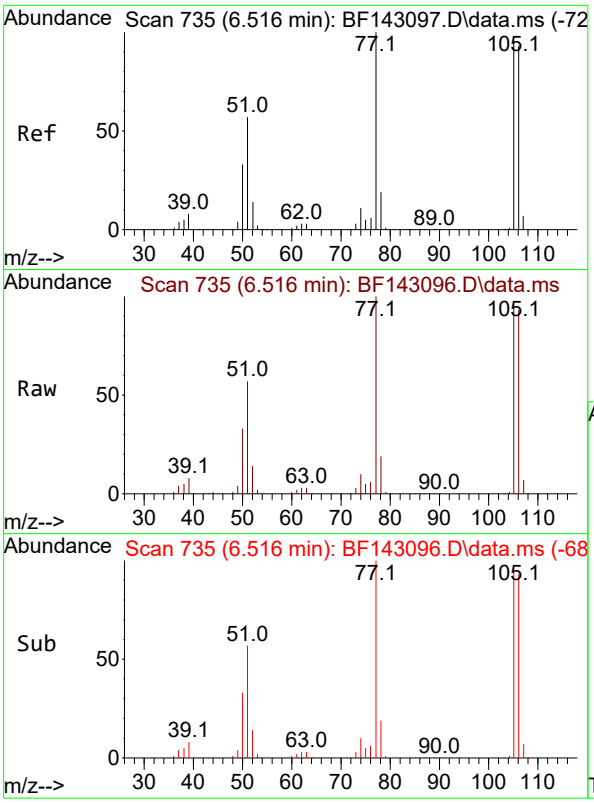


#8
2-Chlorophenol
Concen: 20.775 ng
RT: 6.751 min Scan# 775
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:128 Resp: 202437

Ion	Ratio	Lower	Upper
128	100		
130	32.6	12.8	52.8
64	54.3	36.1	76.1

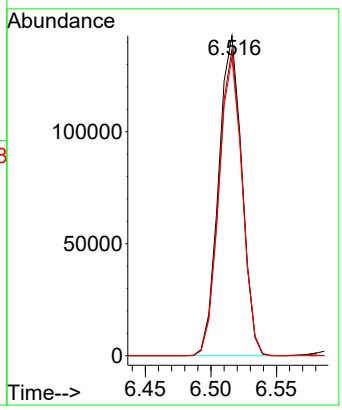




#9
Benzaldehyde
Concen: 18.952 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 77 Resp: 17605

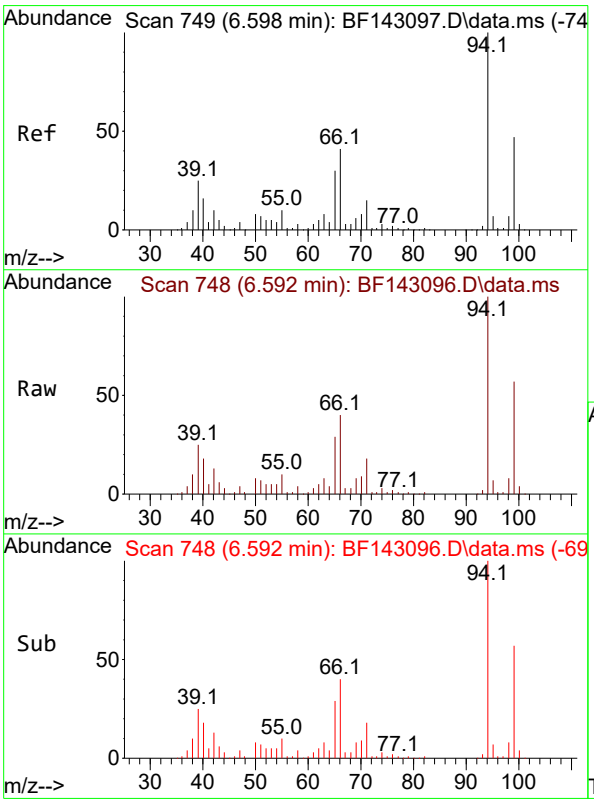
Ion	Ratio	Lower	Upper
77	100		
105	95.6	76.3	116.3
106	93.1	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

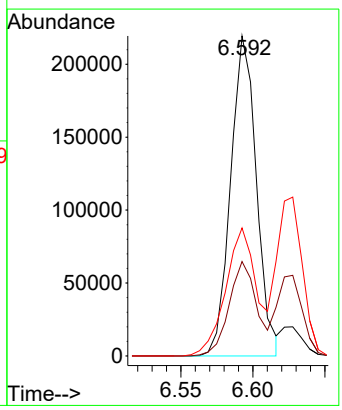
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

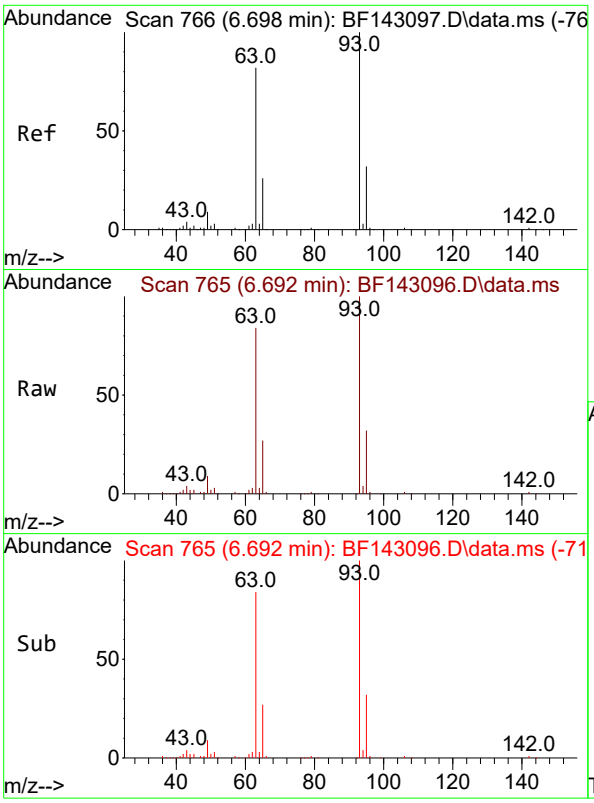


#10
Phenol
Concen: 20.693 ng m
RT: 6.592 min Scan# 748
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 94 Resp: 273102

Ion	Ratio	Lower	Upper
94	100		
65	29.5	9.8	49.8
66	40.0	20.5	60.5

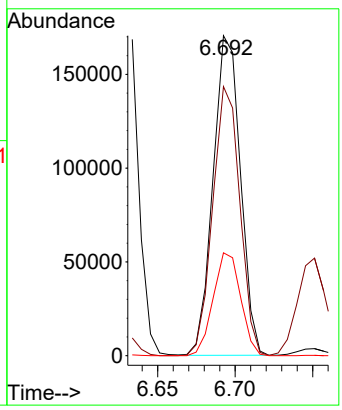




#11
bis(2-Chloroethyl)ether
Concen: 20.491 ng
RT: 6.692 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 93 Resp: 20936

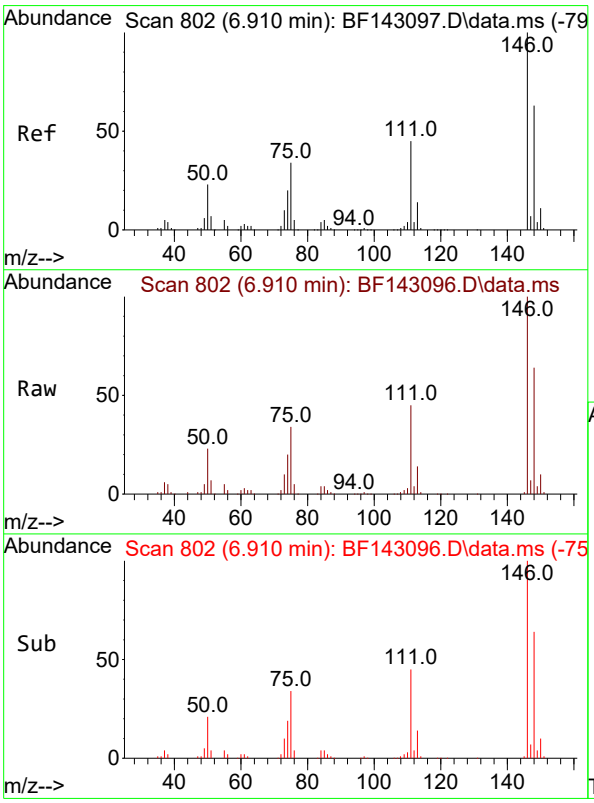
Ion	Ratio	Lower	Upper
93	100		
63	84.1	61.9	101.9
95	32.2	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

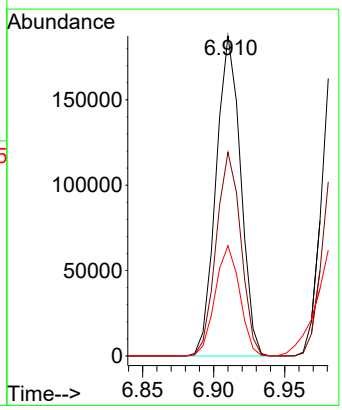
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

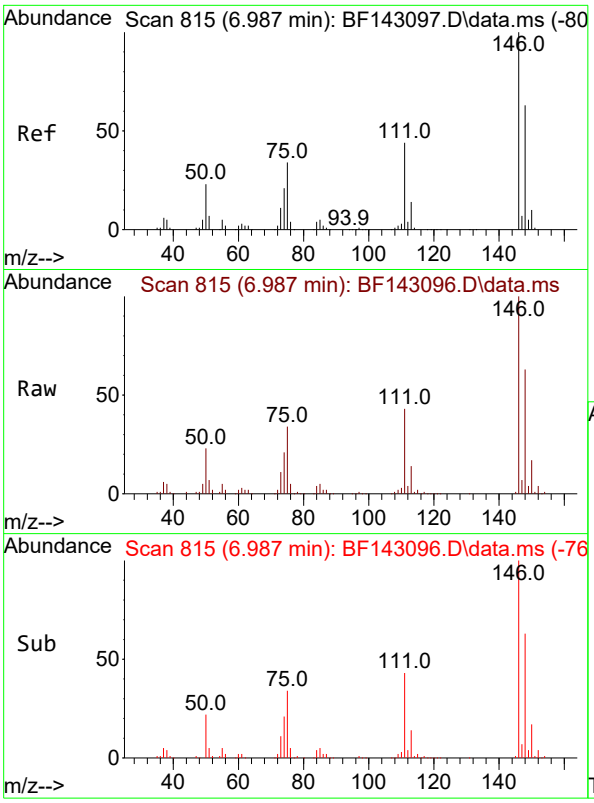


#12
1,3-Dichlorobenzene
Concen: 20.458 ng
RT: 6.910 min Scan# 802
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:146 Resp: 225218

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.1	75.1
75	34.5	27.4	41.0

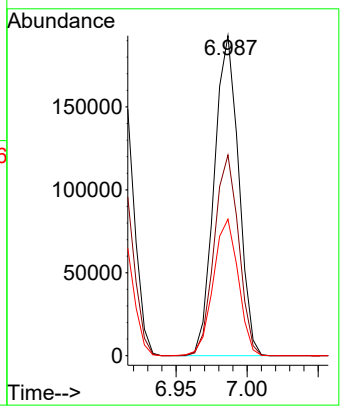




#13
1,4-Dichlorobenzene
Concen: 20.804 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:146 Resp: 23040

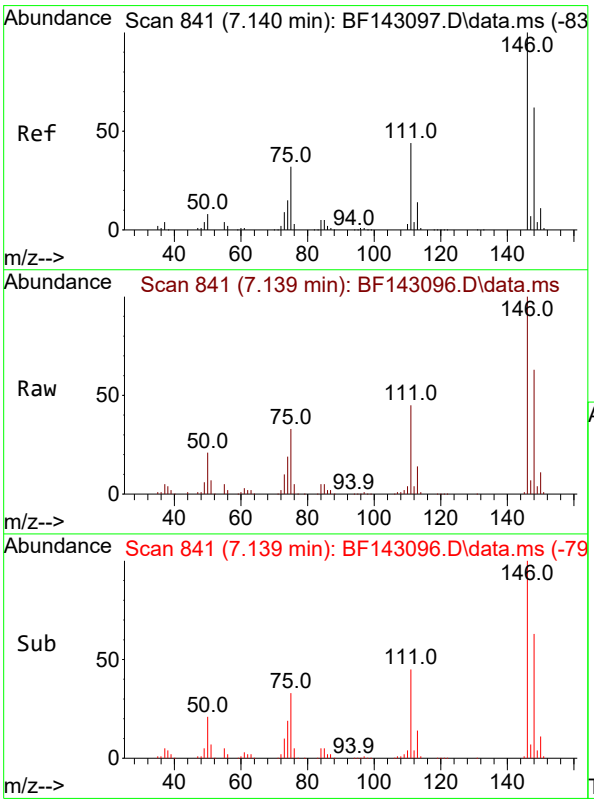
Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.6	76.0
111	42.7	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

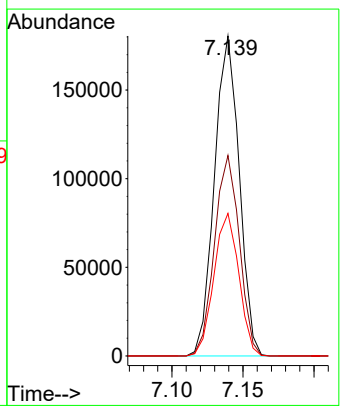
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

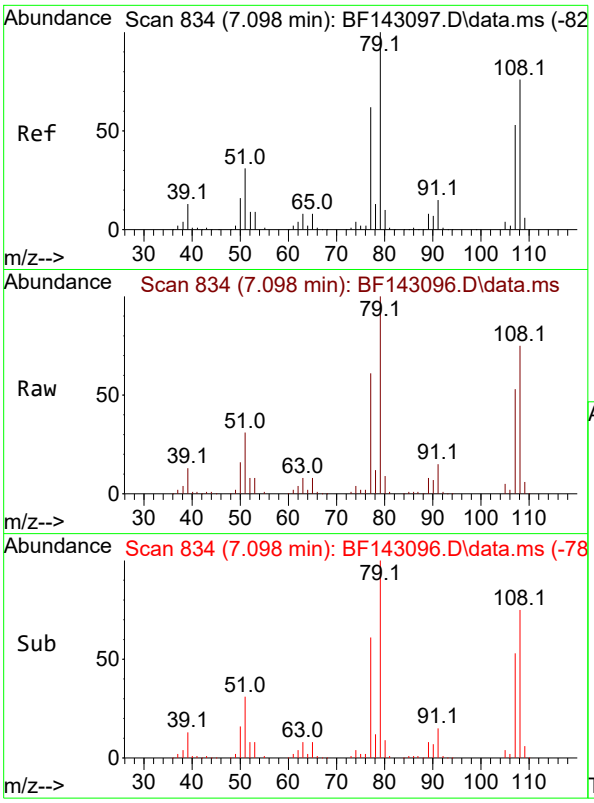


#14
1,2-Dichlorobenzene
Concen: 20.745 ng
RT: 7.139 min Scan# 841
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:146 Resp: 219102

Ion	Ratio	Lower	Upper
146	100		
148	62.6	49.8	74.6
111	44.5	35.4	53.0

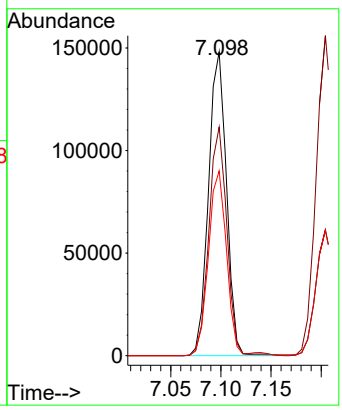




#15
Benzyl Alcohol
Concen: 20.428 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 79 Resp: 18453

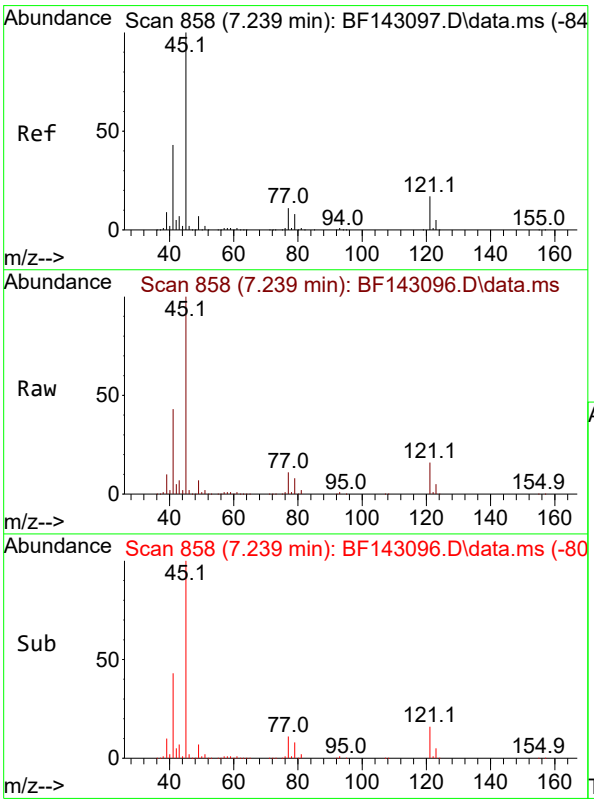
Ion	Ratio	Lower	Upper
79	100		
108	75.2	61.1	91.7
77	60.8	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

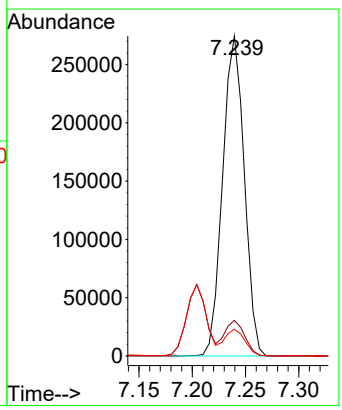
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

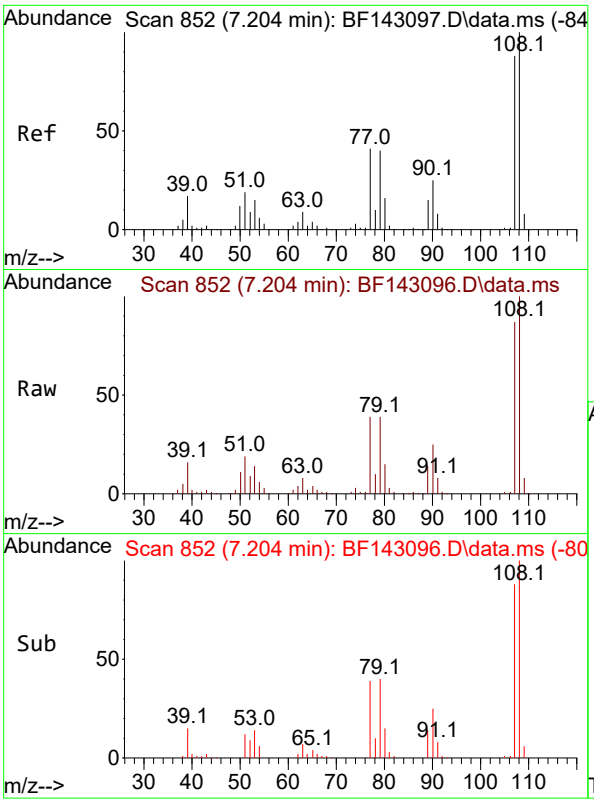


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.571 ng
RT: 7.239 min Scan# 858
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 45 Resp: 387425

Ion	Ratio	Lower	Upper
45	100		
77	11.1	0.0	31.1
79	8.4	0.0	28.4

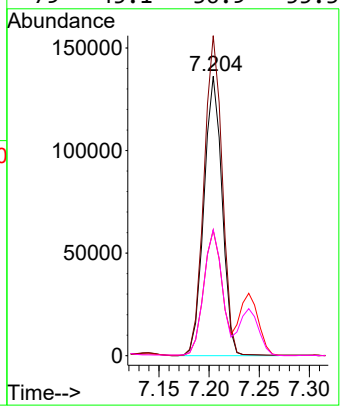




#17
2-Methylphenol
Concen: 20.480 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:107 Resp: 17221

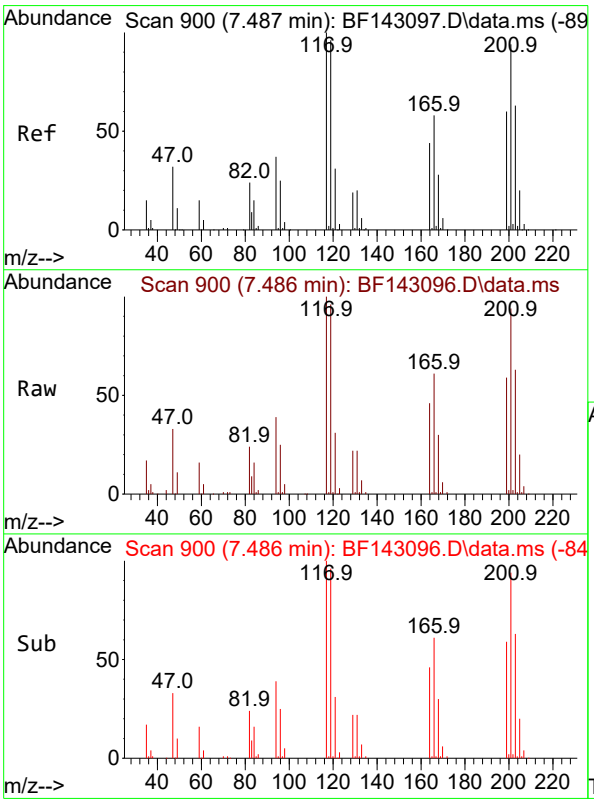
Ion	Ratio	Lower	Upper
107	100		
108	114.5	90.9	136.3
77	44.9	37.5	56.3
79	45.1	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

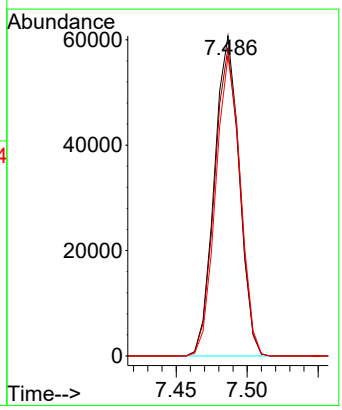
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

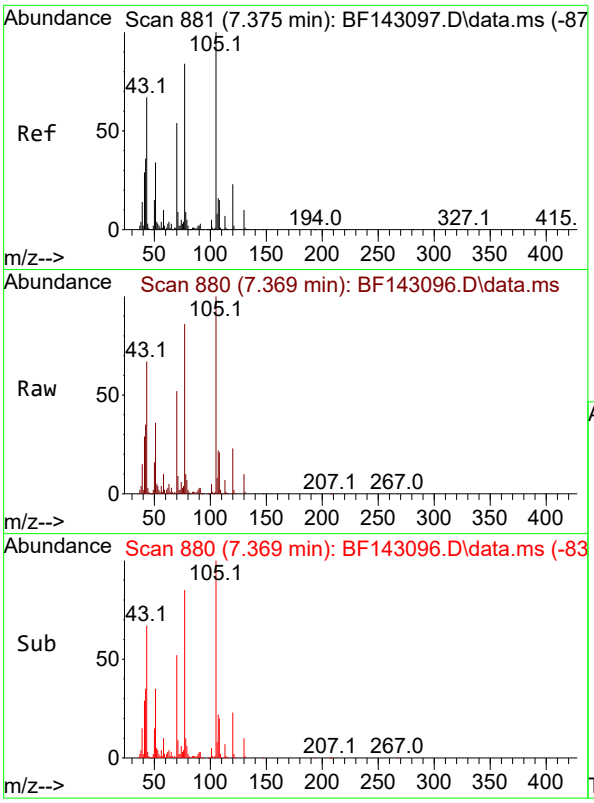


#18
Hexachloroethane
Concen: 20.654 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:117 Resp: 74466

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.7	115.1
201	93.7	75.0	112.4

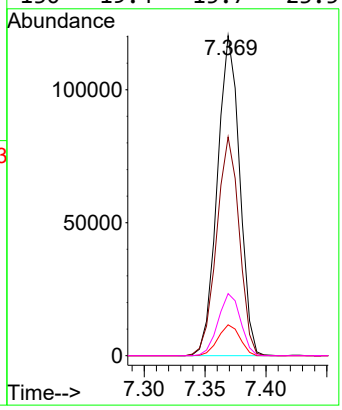




#19
n-Nitroso-di-n-propylamine
Concen: 20.559 ng
RT: 7.369 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 70 Resp: 15355

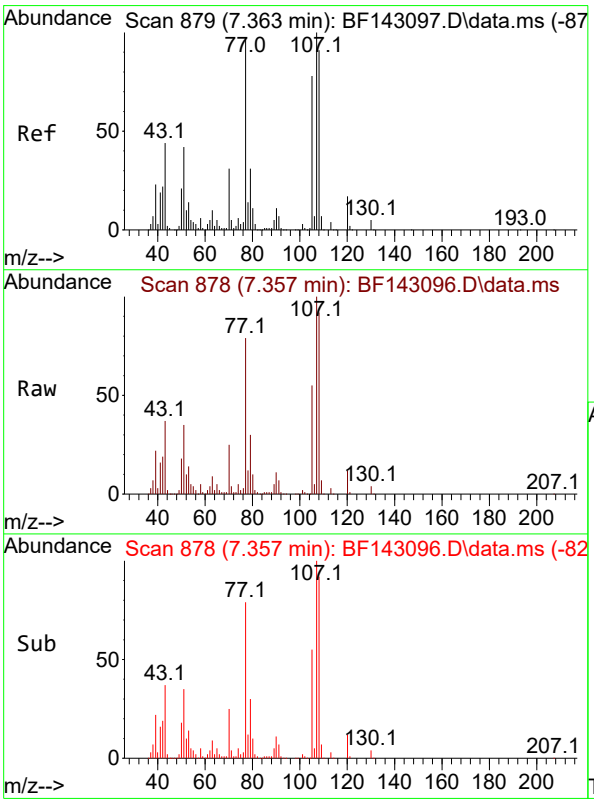
Ion	Ratio	Lower	Upper
70	100		
42	68.3	53.2	79.8
101	9.7	7.5	11.3
130	19.4	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

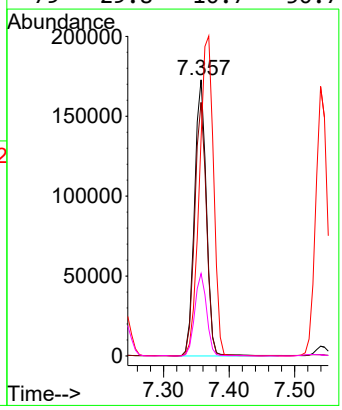
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

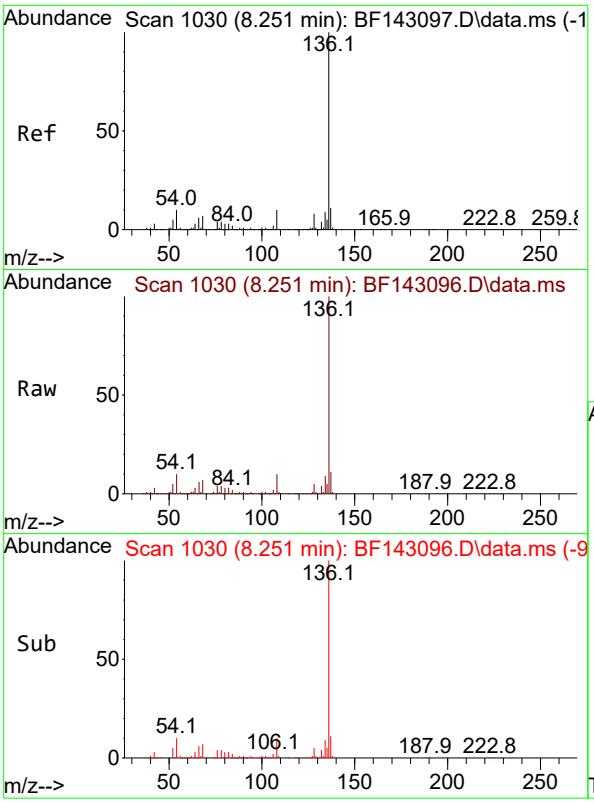


#20
3+4-Methylphenols
Concen: 21.080 ng
RT: 7.357 min Scan# 878
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:107 Resp: 217393

Ion	Ratio	Lower	Upper
107	100		
108	91.8	71.3	111.3
77	78.6	77.2	117.2
79	29.8	10.7	50.7

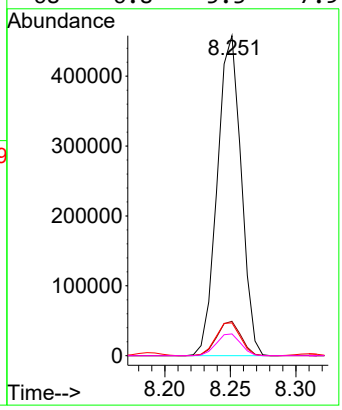




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:136 Resp: 57990

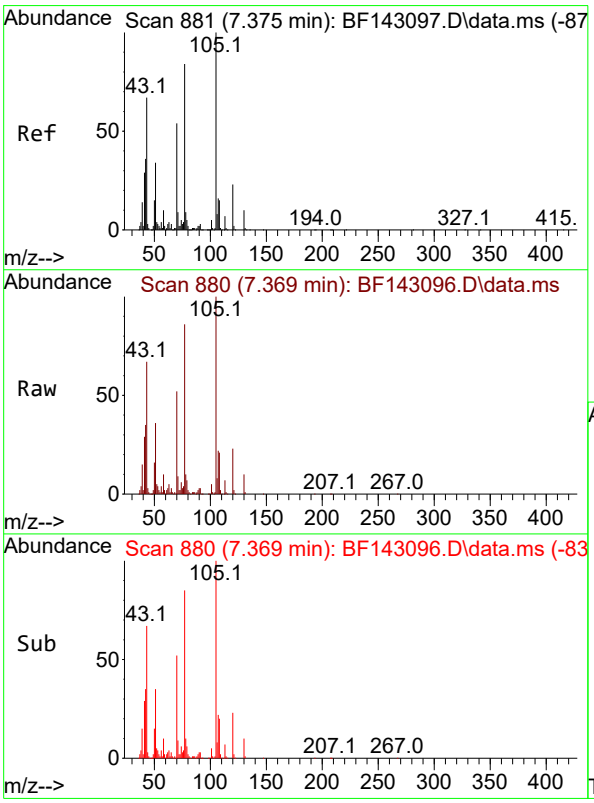
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	10.2	8.3	12.5
68	6.8	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

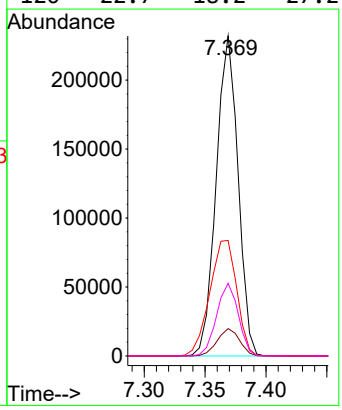
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

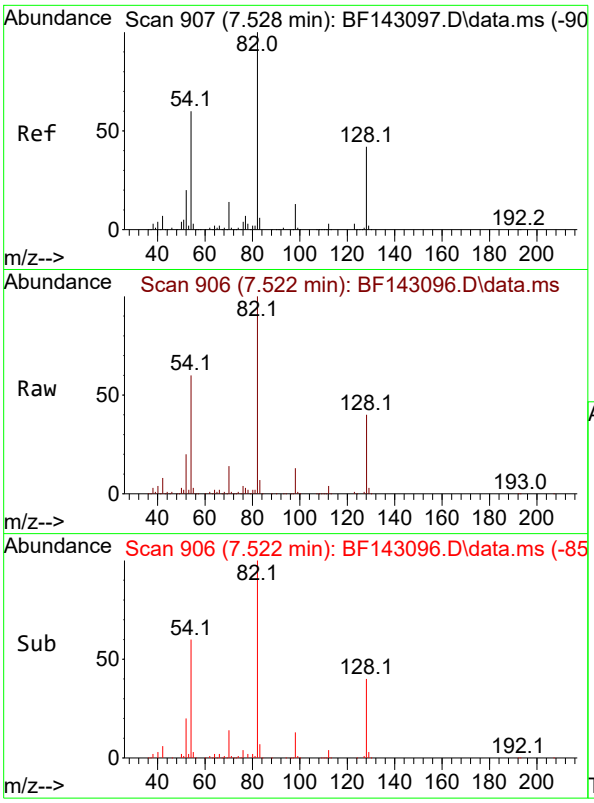


#22
Acetophenone
Concen: 20.725 ng
RT: 7.369 min Scan# 880
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:105 Resp: 289716

Ion	Ratio	Lower	Upper
105	100		
71	8.5	7.2	10.8
51	36.1	27.0	40.4
120	22.7	18.2	27.2





#23
Nitrobenzene-d5
Concen: 40.693 ng m
RT: 7.522 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

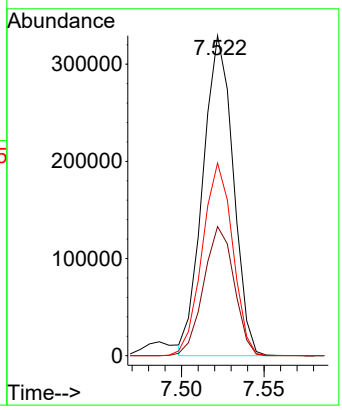
Tgt Ion: 82 Resp: 42067

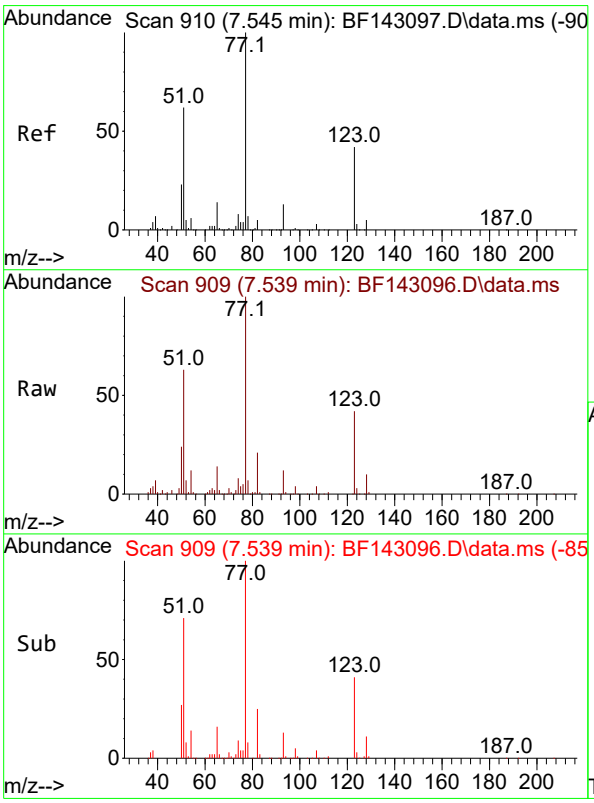
Ion	Ratio	Lower	Upper
82	100		
128	40.4	33.3	49.9
54	60.2	47.4	71.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

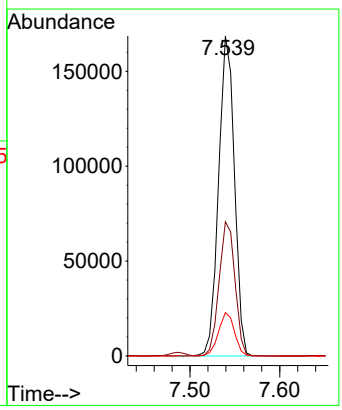


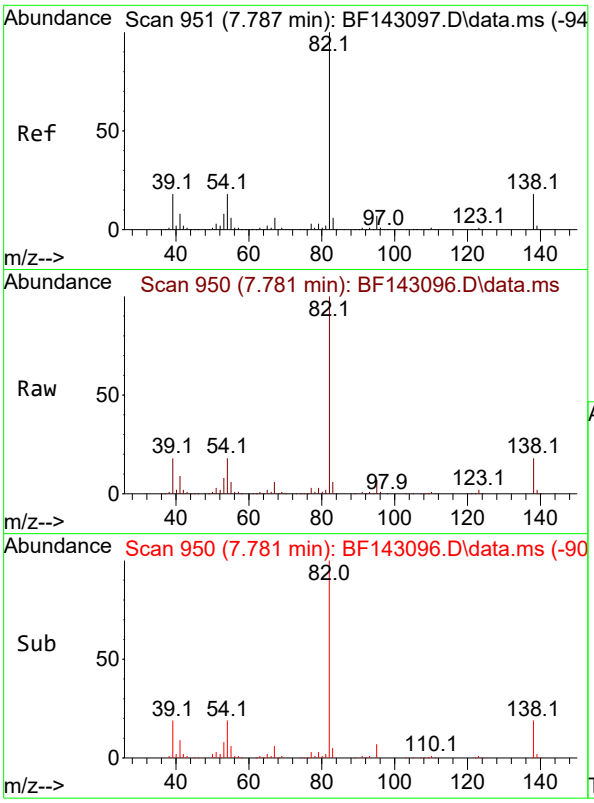


#24
Nitrobenzene
Concen: 20.721 ng
RT: 7.539 min Scan# 909
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 77 Resp: 206781

Ion	Ratio	Lower	Upper
77	100		
123	42.0	34.5	51.7
65	13.5	11.3	16.9

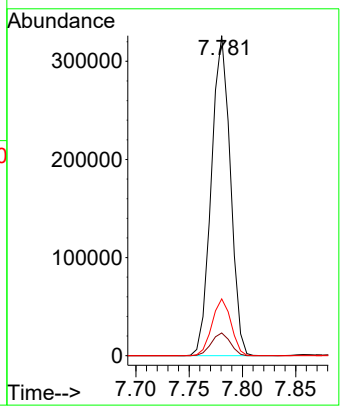




#25
Isophorone
Concen: 20.239 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 82 Resp: 40438

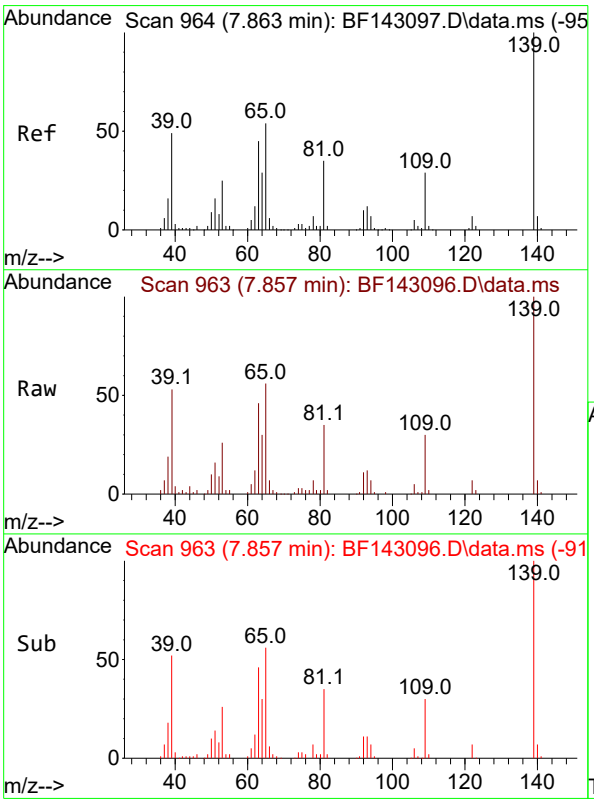
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	17.7	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

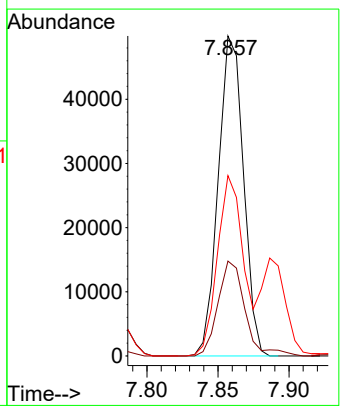
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

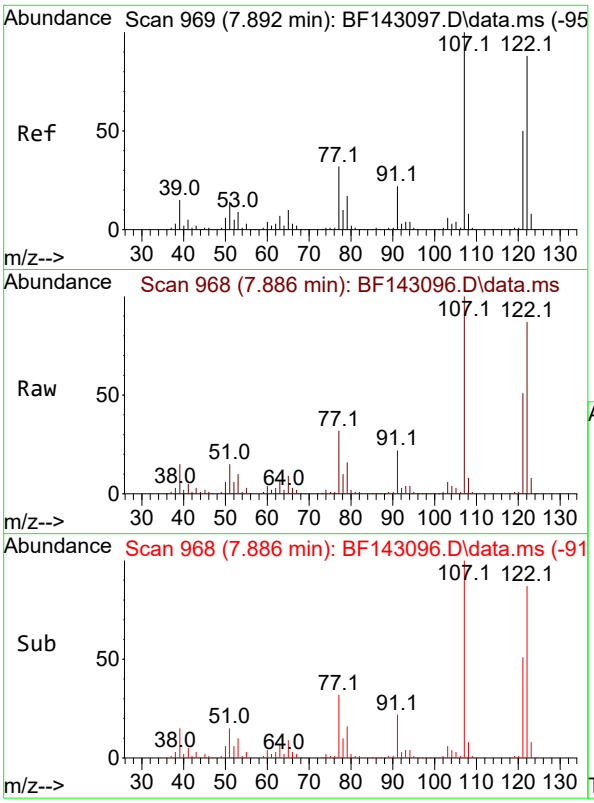


#26
2-Nitrophenol
Concen: 18.099 ng
RT: 7.857 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:139 Resp: 61544

Ion	Ratio	Lower	Upper
139	100		
109	29.7	23.4	35.0
65	56.3	43.4	65.2

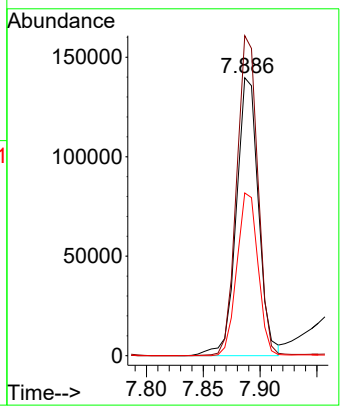




#27
2,4-Dimethylphenol
Concen: 20.363 ng
RT: 7.886 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:122 Resp: 18884

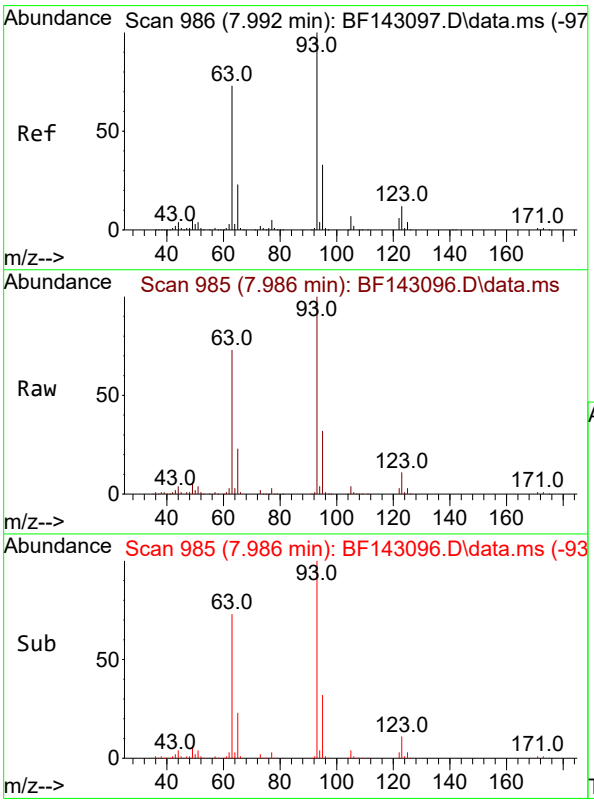
Ion	Ratio	Lower	Upper
122	100		
107	115.1	91.3	136.9
121	58.6	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

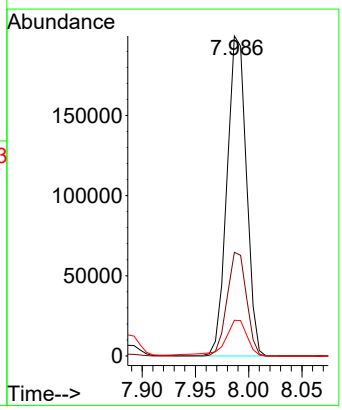
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

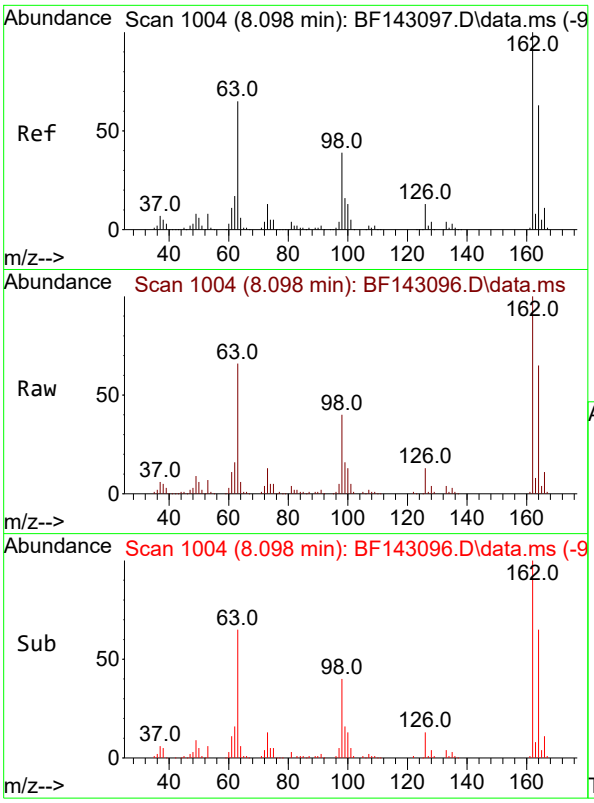


#28
bis(2-Chloroethoxy)methane
Concen: 20.814 ng
RT: 7.986 min Scan# 985
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 93 Resp: 252183

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.2	39.4
123	11.1	9.6	14.4

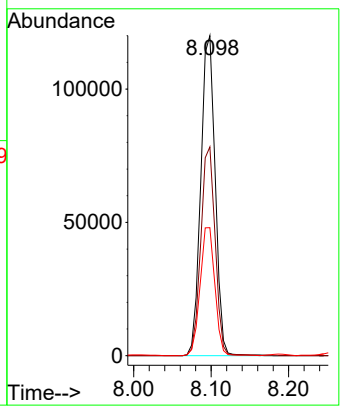




#29
2,4-Dichlorophenol
Concen: 20.427 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:162 Resp: 15497

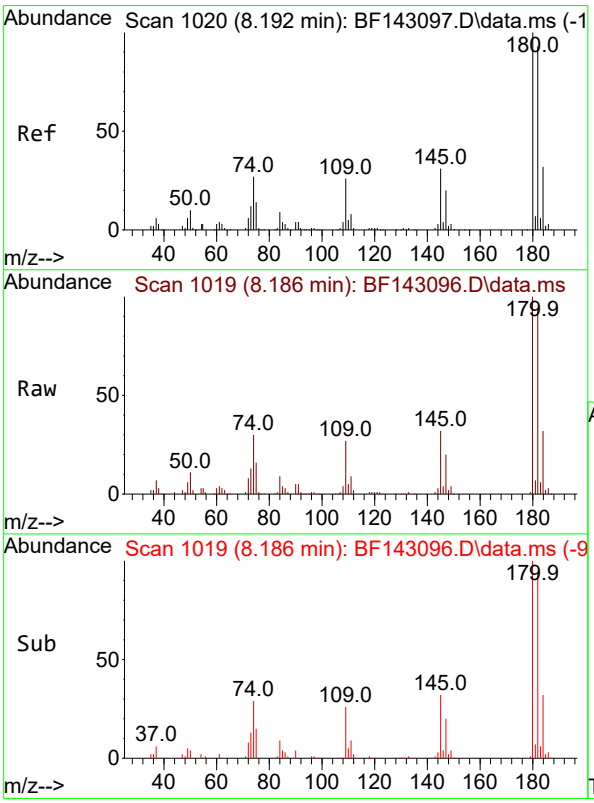
Ion	Ratio	Lower	Upper
162	100		
164	65.2	43.1	83.1
98	40.0	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

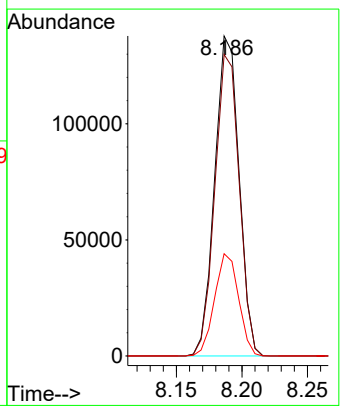
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

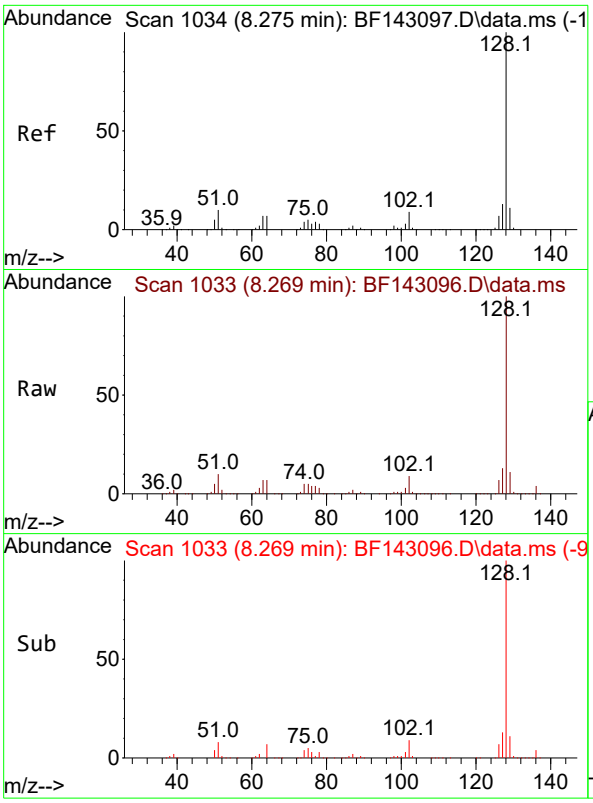


#30
1,2,4-Trichlorobenzene
Concen: 20.647 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:180 Resp: 177770

Ion	Ratio	Lower	Upper
180	100		
182	94.2	74.7	112.1
145	31.9	24.5	36.7

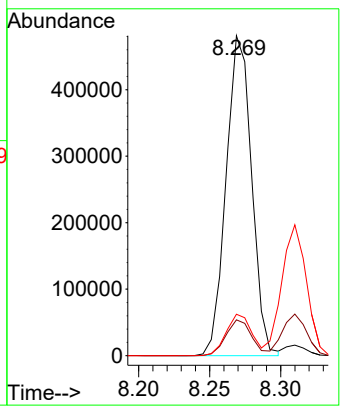




#31
Naphthalene
Concen: 20.881 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:128 Resp: 60131

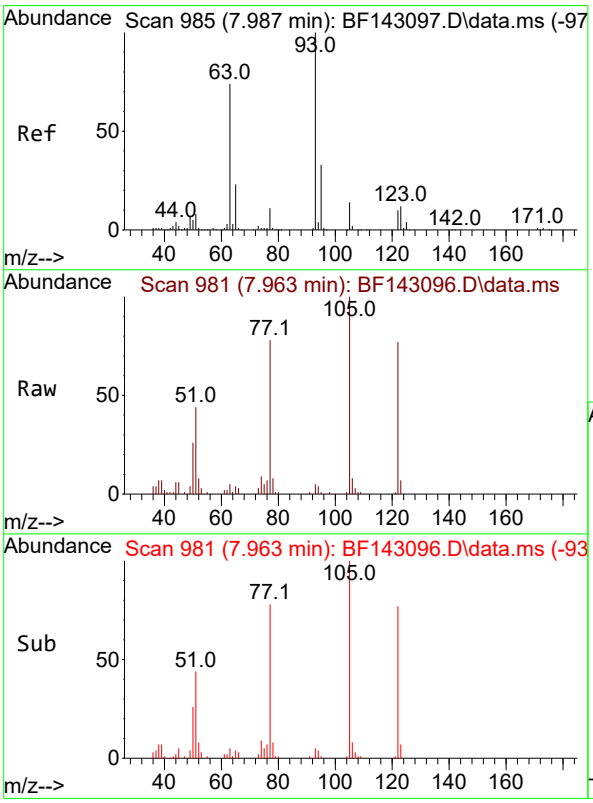
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.0	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

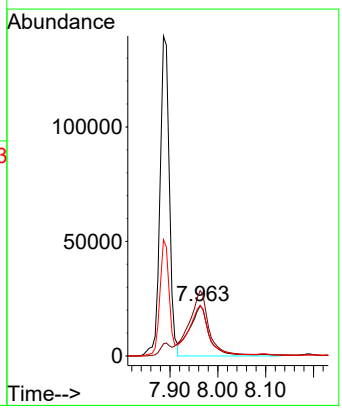
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

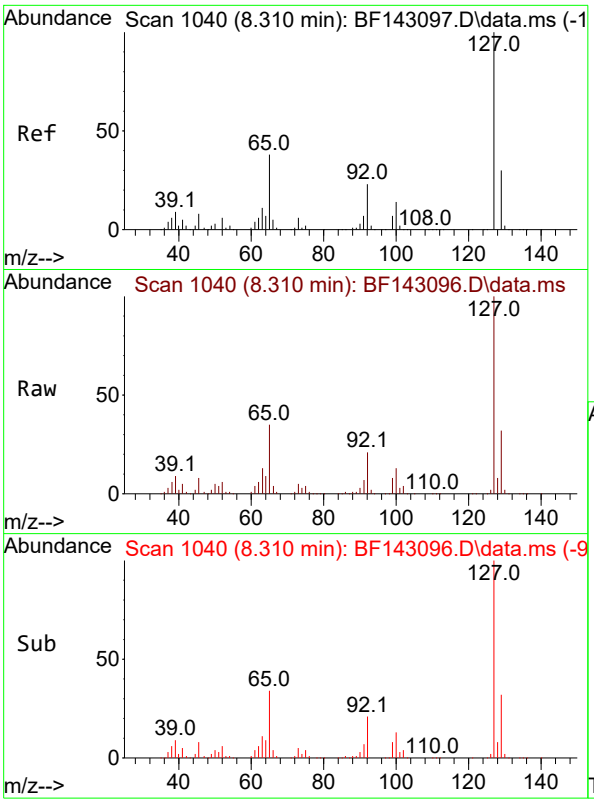


#32
Benzoic acid
Concen: 18.587 ng m
RT: 7.963 min Scan# 981
Delta R.T. -0.024 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:122 Resp: 64517

Ion	Ratio	Lower	Upper
122	100		
105	130.0	105.4	145.4
77	100.9	78.6	118.6

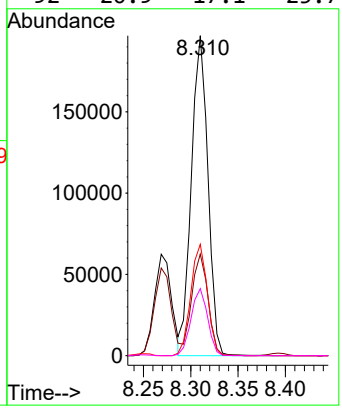




#33
4-Chloroaniline
Concen: 20.714 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:127 Resp: 23986

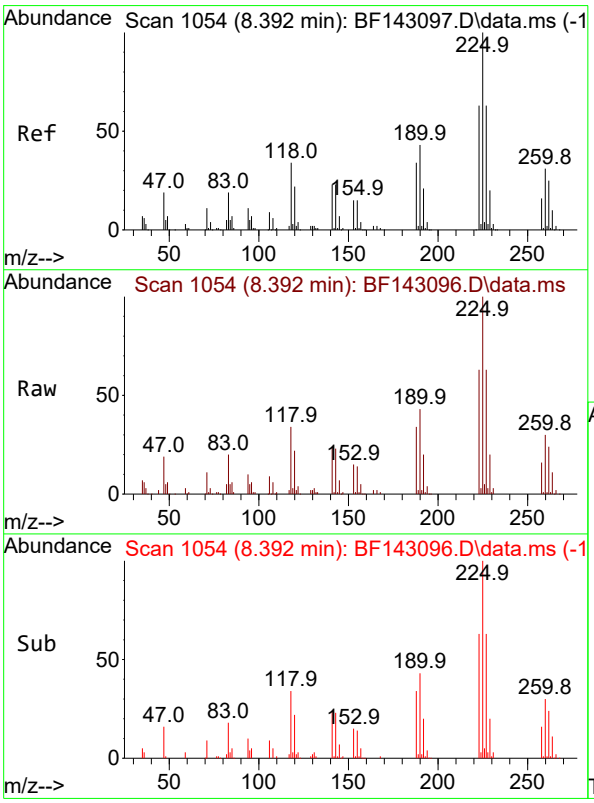
Ion	Ratio	Lower	Upper
127	100		
129	31.7	26.2	39.4
65	34.8	28.6	42.8
92	20.9	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

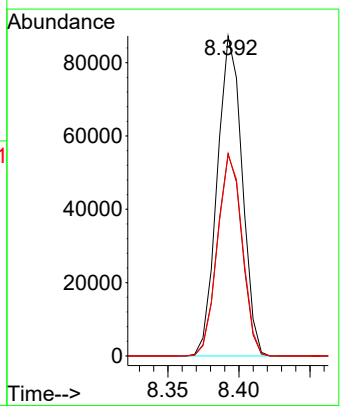
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

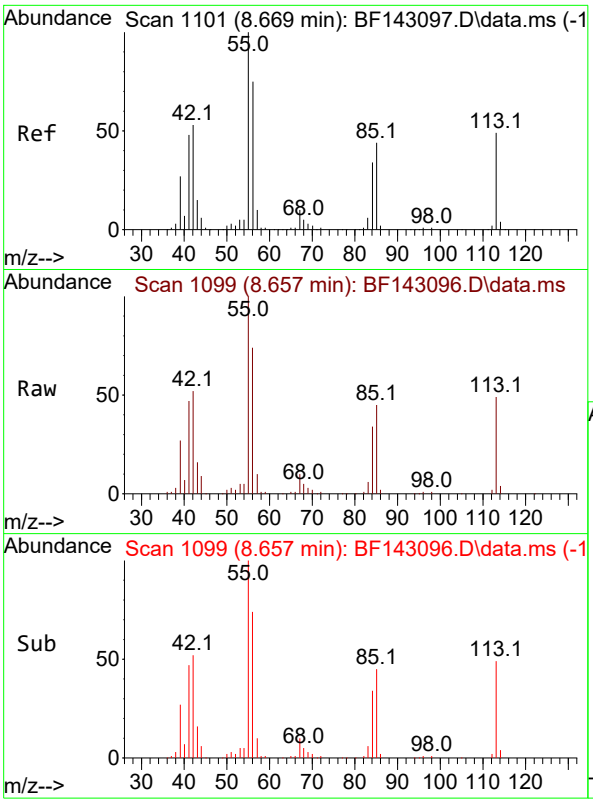


#34
Hexachlorobutadiene
Concen: 20.655 ng
RT: 8.392 min Scan# 1054
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:225 Resp: 106359

Ion	Ratio	Lower	Upper
225	100		
223	63.3	50.3	75.5
227	62.9	50.1	75.1

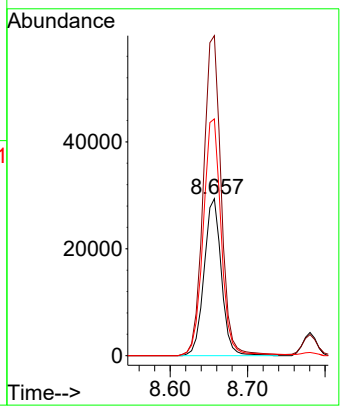




#35
Caprolactam
Concen: 19.171 ng
RT: 8.657 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:113 Resp: 4541

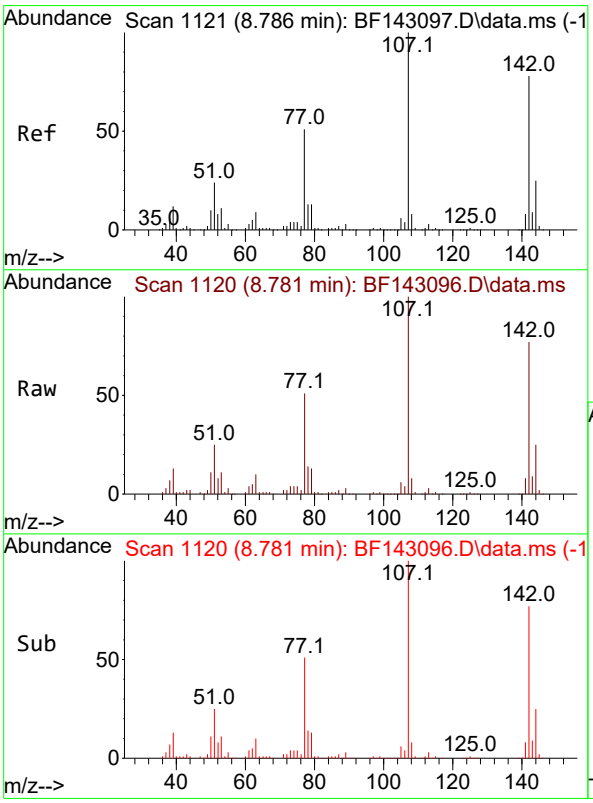
Ion	Ratio	Lower	Upper
113	100		
55	203.9	186.2	226.2
56	150.9	134.1	174.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

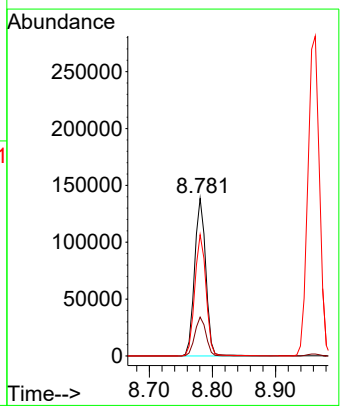
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

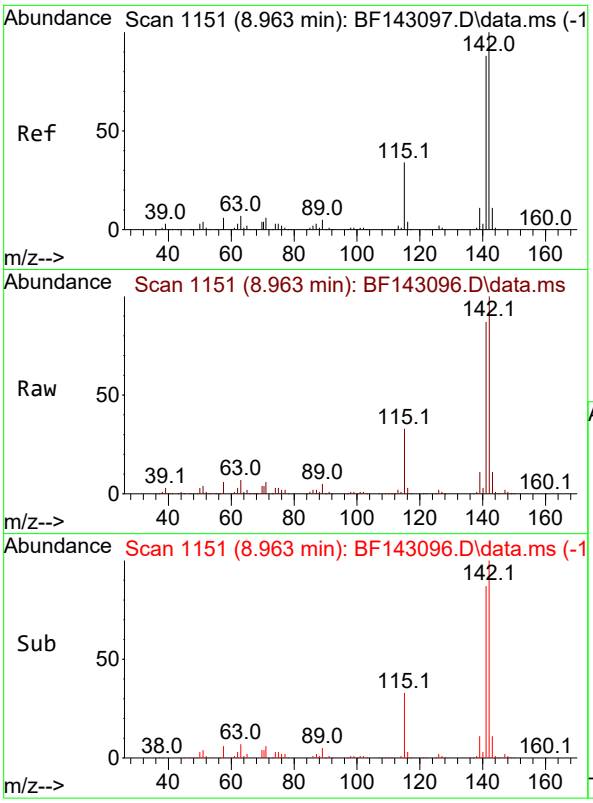


#36
4-Chloro-3-methylphenol
Concen: 20.307 ng
RT: 8.781 min Scan# 1120
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:107 Resp: 171615

Ion	Ratio	Lower	Upper
107	100		
144	24.6	20.2	30.2
142	77.0	62.4	93.6





#37
2-Methylnaphthalene
Concen: 20.744 ng
RT: 8.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

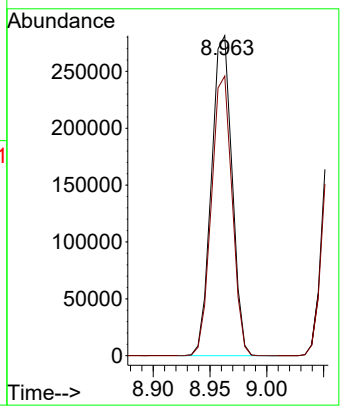
Tgt Ion:142 Resp: 35637

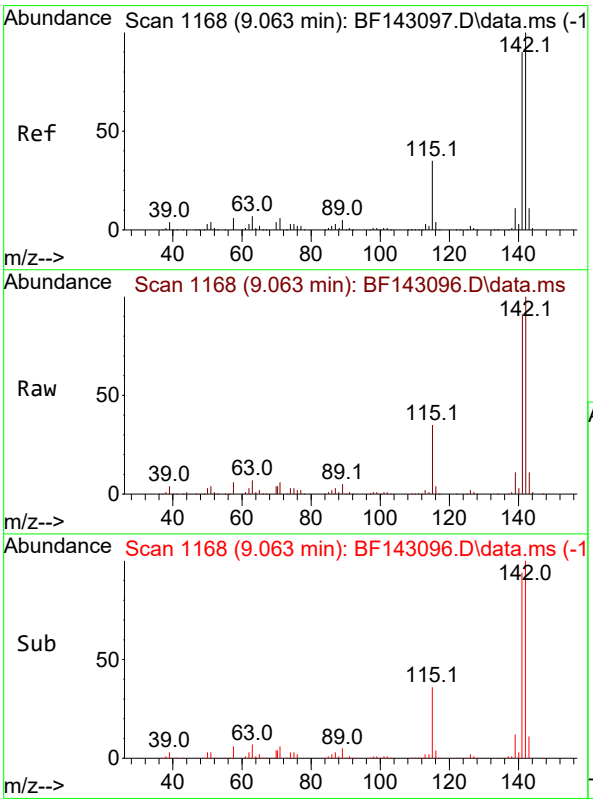
Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.2	105.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

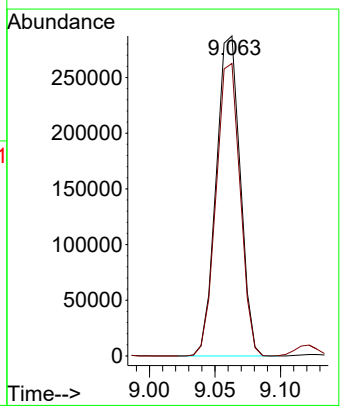


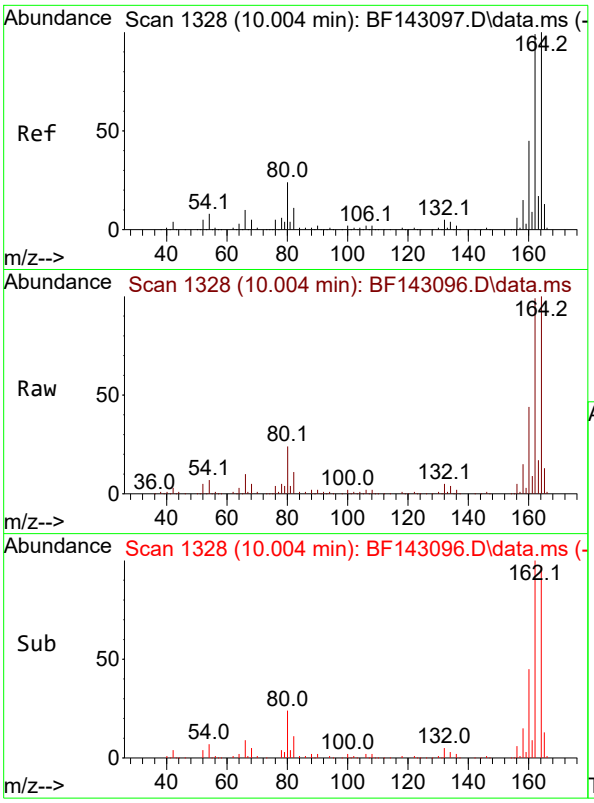


#38
1-Methylnaphthalene
Concen: 20.524 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:142 Resp: 365700

Ion	Ratio	Lower	Upper
142	100		
141	91.4	72.2	108.4

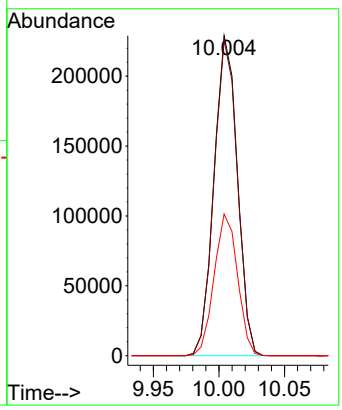




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:164 Resp: 28330

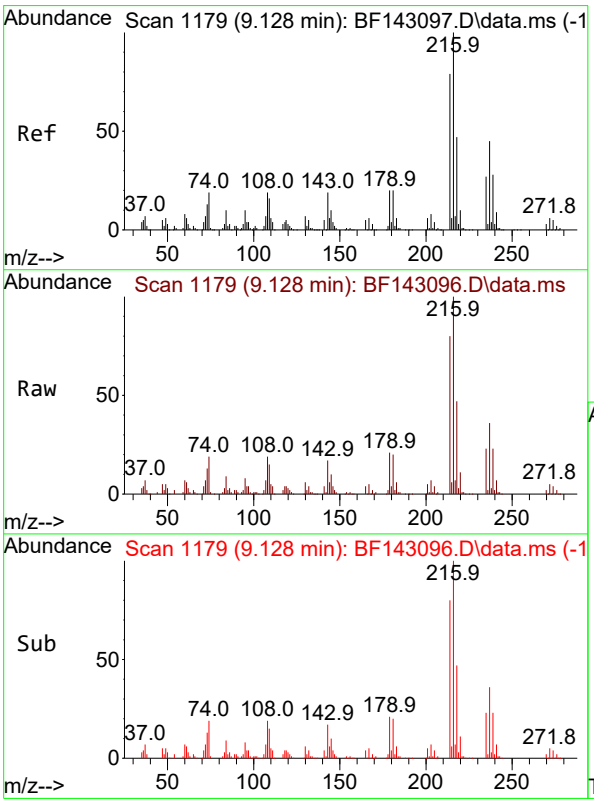
Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.0	118.6
160	44.2	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

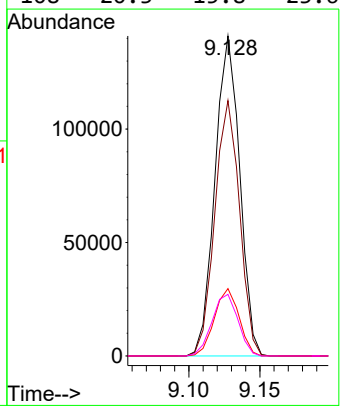
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

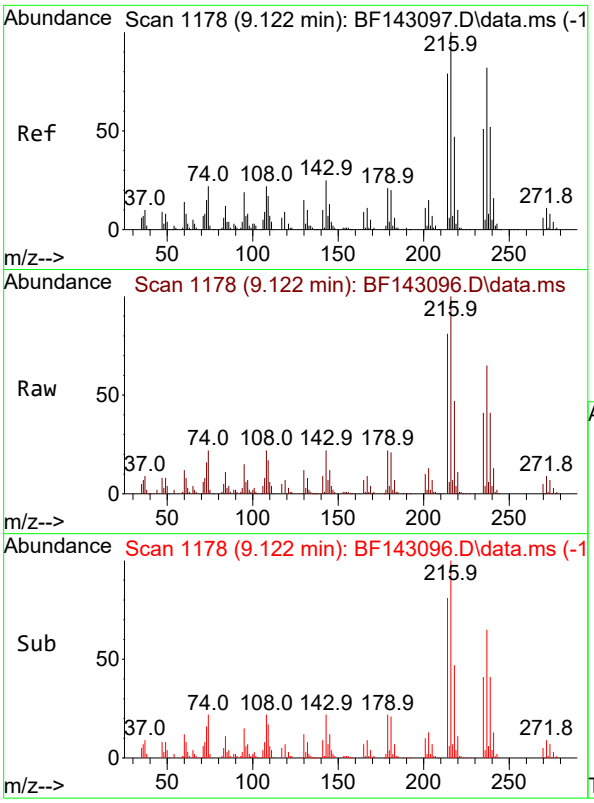


#40
1,2,4,5-Tetrachlorobenzene
Concen: 20.673 ng
RT: 9.128 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:216 Resp: 170678

Ion	Ratio	Lower	Upper
216	100		
214	79.7	62.6	94.0
179	21.1	16.2	24.2
108	20.3	15.8	23.6





#41
Hexachlorocyclopentadiene
Concen: 18.918 ng
RT: 9.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

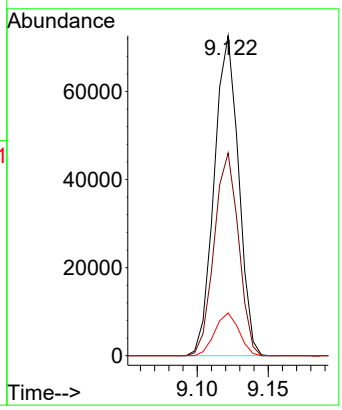
Tgt Ion:237 Resp: 8659

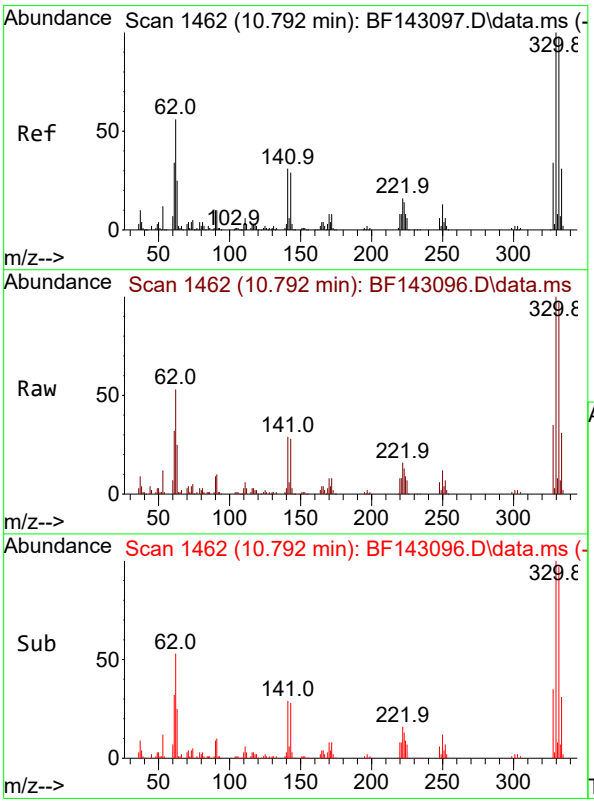
Ion	Ratio	Lower	Upper
237	100		
235	63.3	41.6	81.6
272	13.4	0.0	32.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

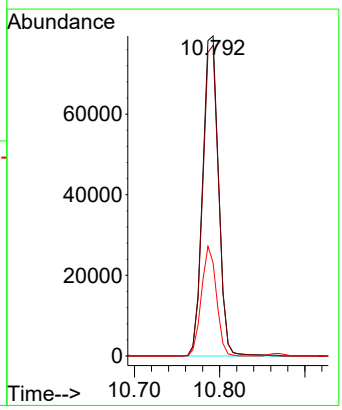


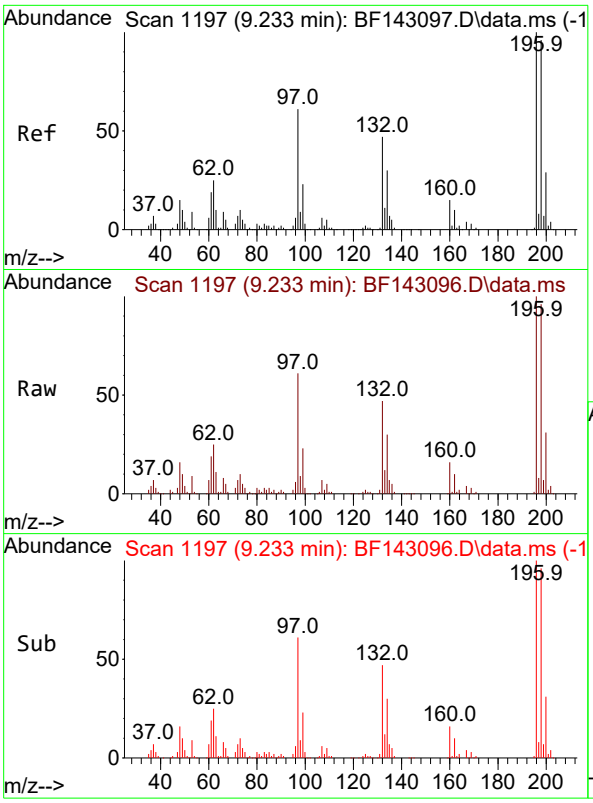


#42
2,4,6-Tribromophenol
Concen: 40.489 ng
RT: 10.792 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:330 Resp: 102277

Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.9	116.9
141	32.4	25.9	38.9

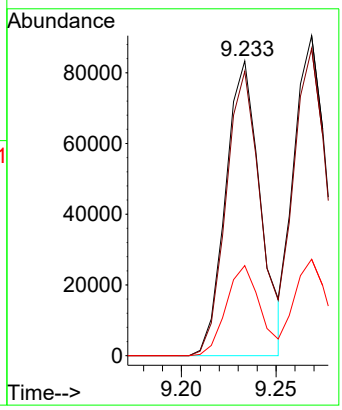




#43
2,4,6-Trichlorophenol
Concen: 20.815 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:196 Resp: 10678

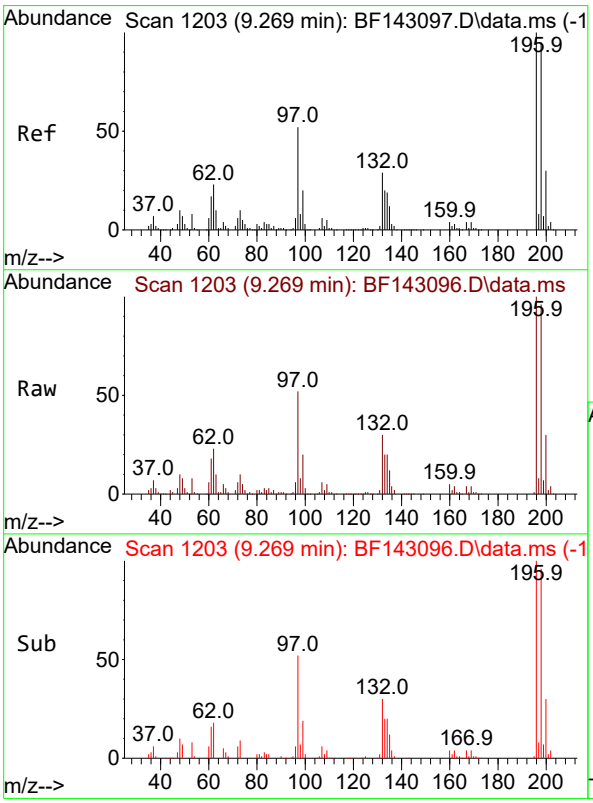
Ion	Ratio	Lower	Upper
196	100		
198	96.5	76.9	115.3
200	30.6	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

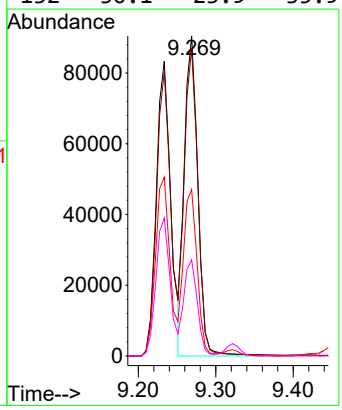
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

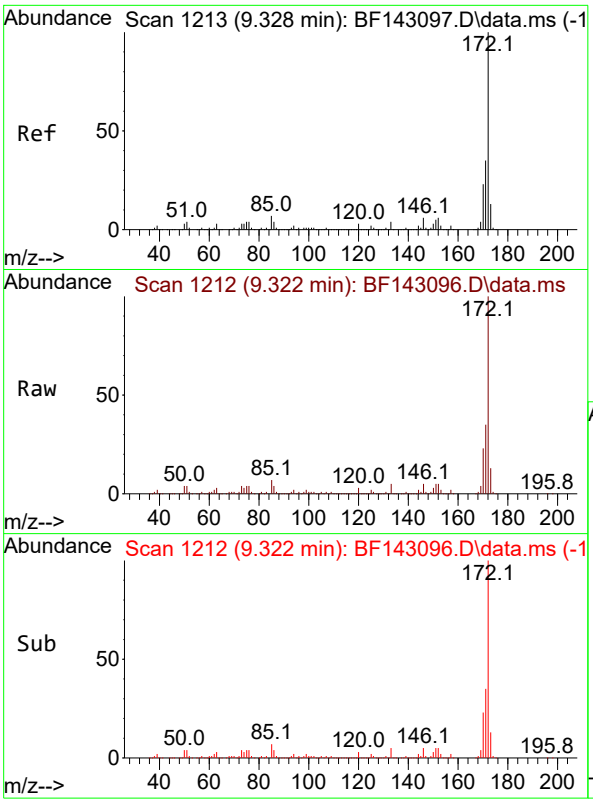


#44
2,4,5-Trichlorophenol
Concen: 20.537 ng
RT: 9.269 min Scan# 1203
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:196 Resp: 110466

Ion	Ratio	Lower	Upper
196	100		
198	96.0	76.4	114.6
97	52.0	42.4	63.6
132	30.1	23.9	35.9

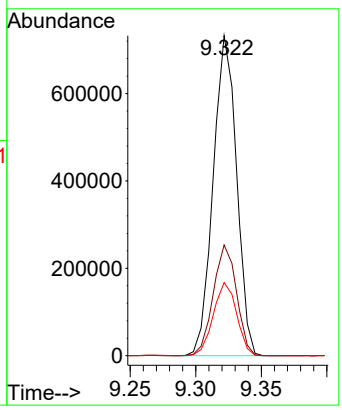




#45
2-Fluorobiphenyl
Concen: 42.581 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:172 Resp: 90749

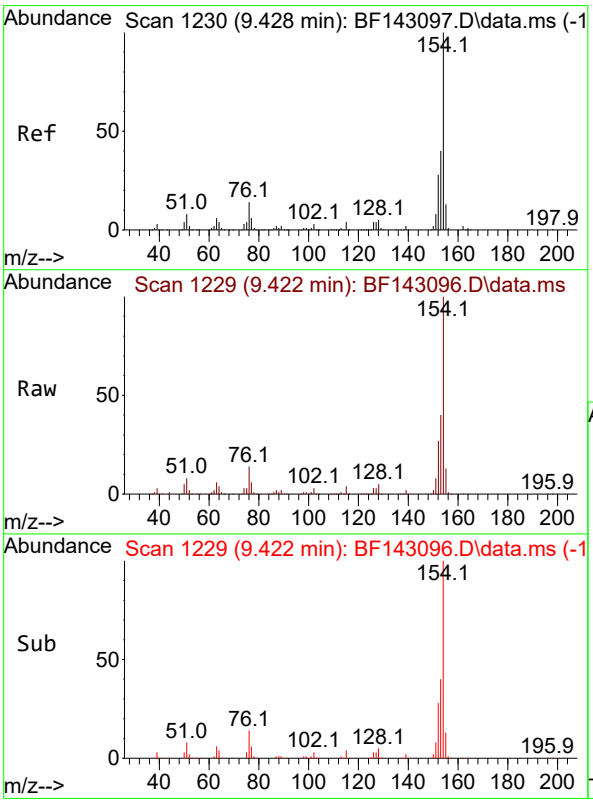
Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.2	42.4
170	22.9	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

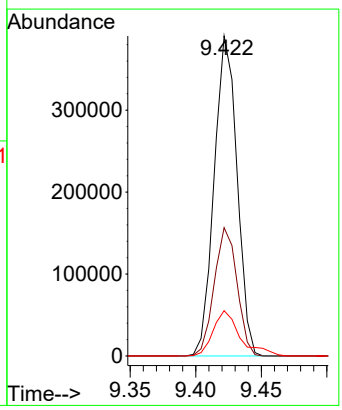
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

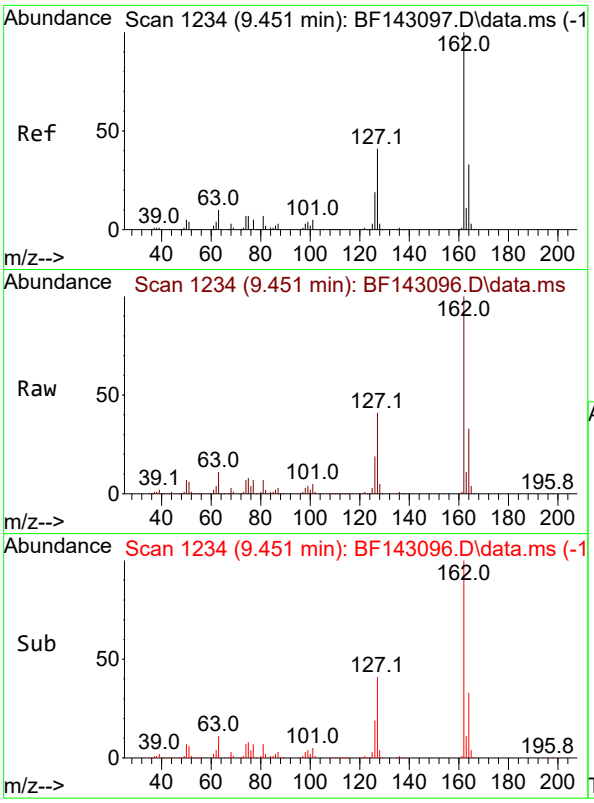


#46
1,1'-Biphenyl
Concen: 20.955 ng
RT: 9.422 min Scan# 1229
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:154 Resp: 473419

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	14.2	0.0	33.7

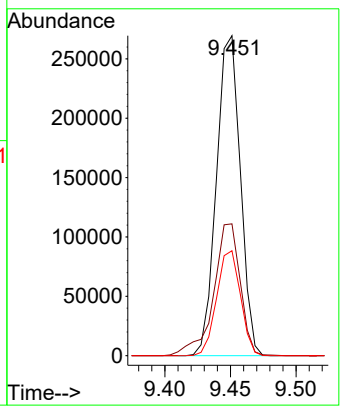




#47
2-Chloronaphthalene
Concen: 20.584 ng
RT: 9.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:162 Resp: 34163

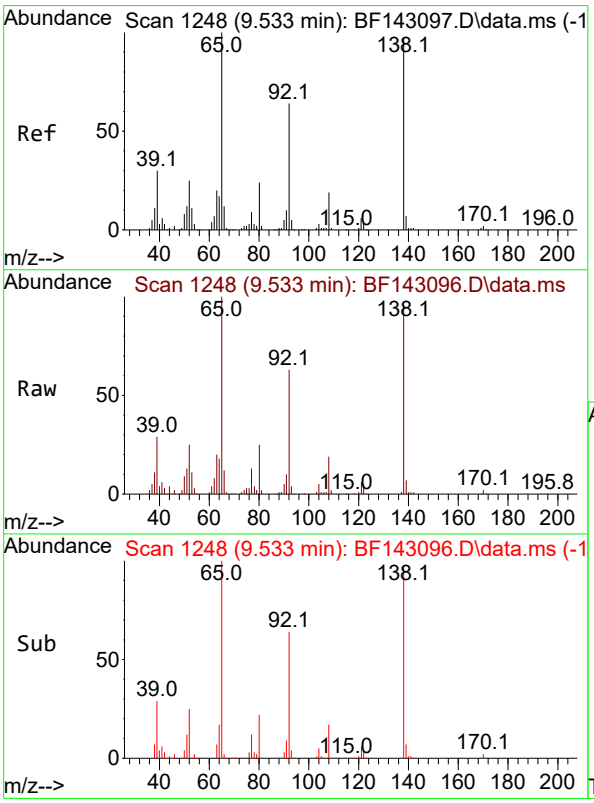
Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.0	49.6
164	32.8	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

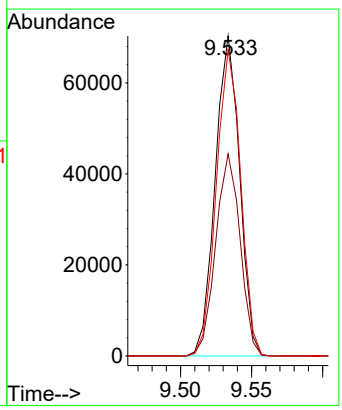
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

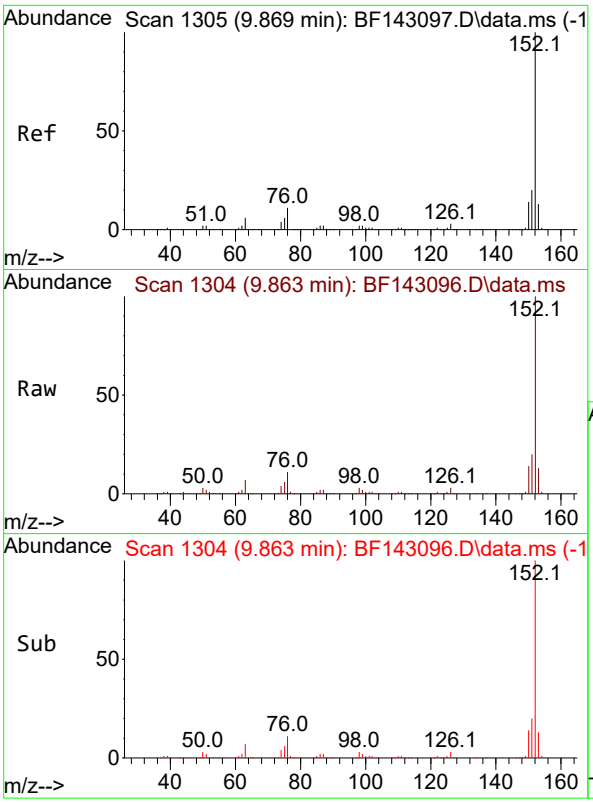


#48
2-Nitroaniline
Concen: 18.969 ng
RT: 9.533 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 65 Resp: 83805

Ion	Ratio	Lower	Upper
65	100		
92	63.1	51.3	76.9
138	95.8	77.8	116.6

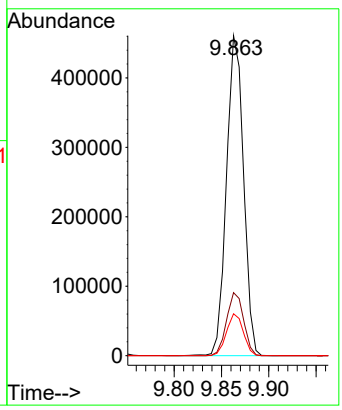




#49
Acenaphthylene
Concen: 20.837 ng
RT: 9.863 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:152 Resp: 57626

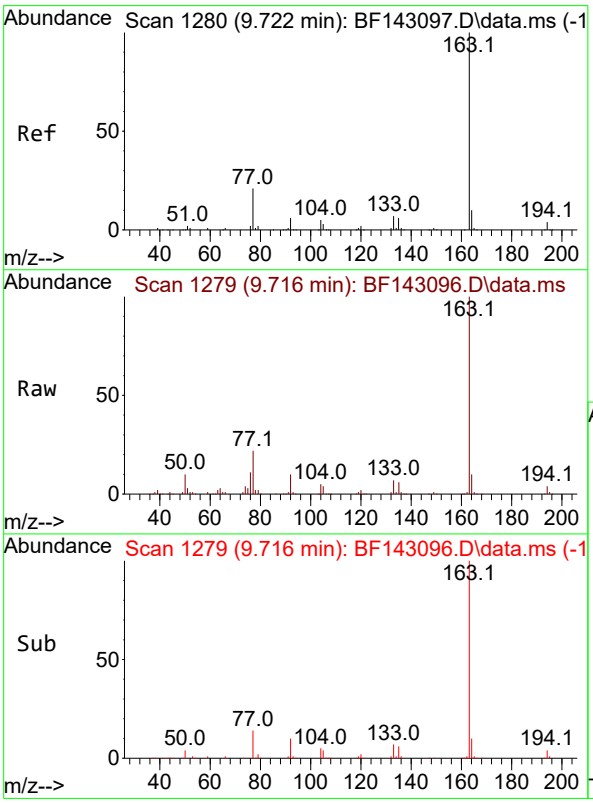
Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.8	23.8
153	13.1	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

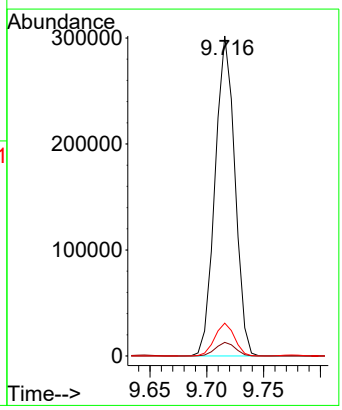
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

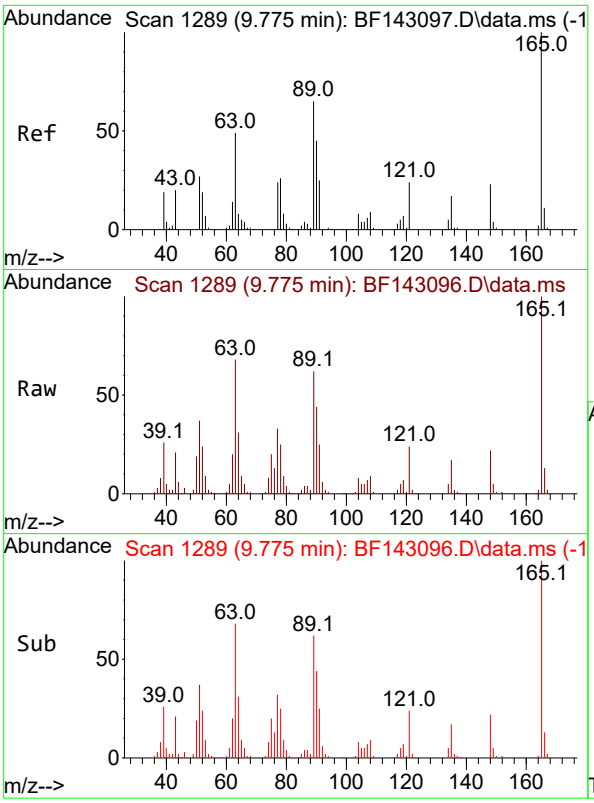


#50
Dimethylphthalate
Concen: 20.536 ng
RT: 9.716 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:163 Resp: 366019

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	10.2	8.2	12.2

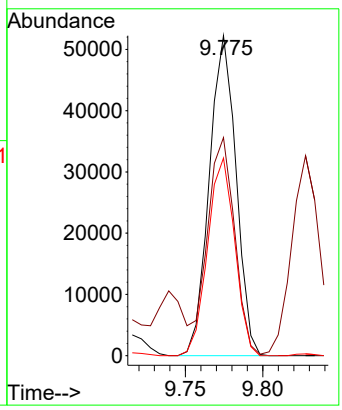




#51
2,6-Dinitrotoluene
Concen: 19.583 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:165 Resp: 6277

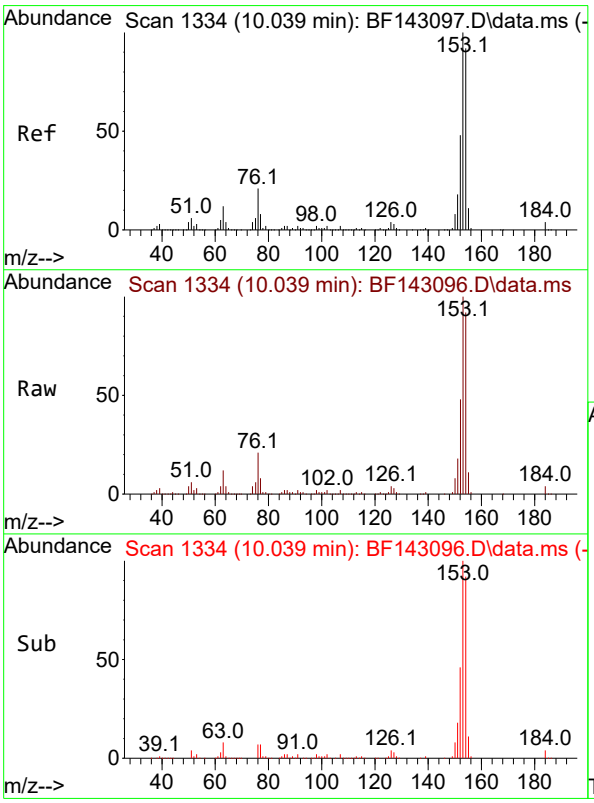
Ion	Ratio	Lower	Upper
165	100		
63	68.1	57.4	86.0
89	61.7	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

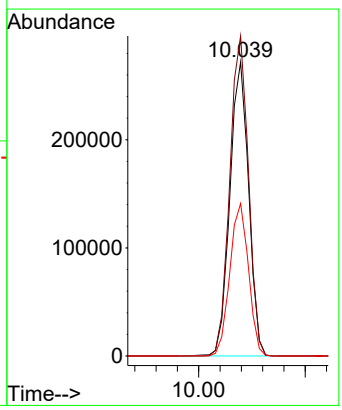
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

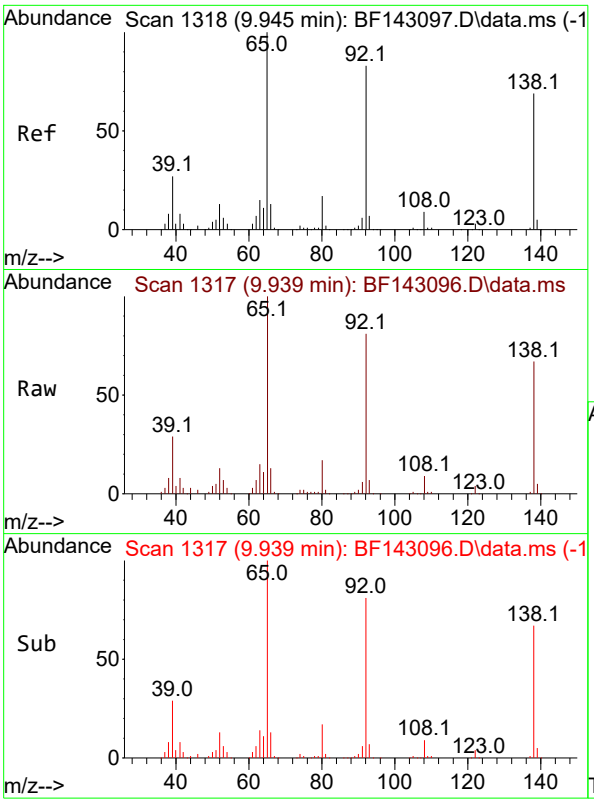


#52
Acenaphthene
Concen: 20.369 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:154 Resp: 332427

Ion	Ratio	Lower	Upper
154	100		
153	108.9	86.7	130.1
152	51.9	41.4	62.2





#53
3-Nitroaniline
Concen: 20.797 ng
RT: 9.939 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

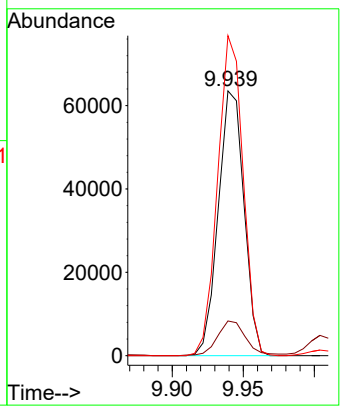
Tgt Ion:138 Resp: 8009

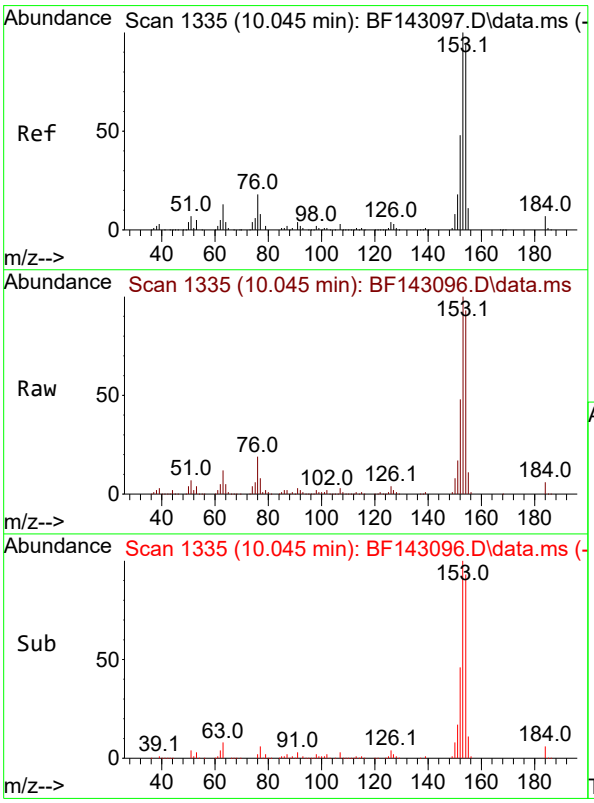
Ion	Ratio	Lower	Upper
138	100		
108	13.1	10.1	15.1
92	120.9	96.4	144.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

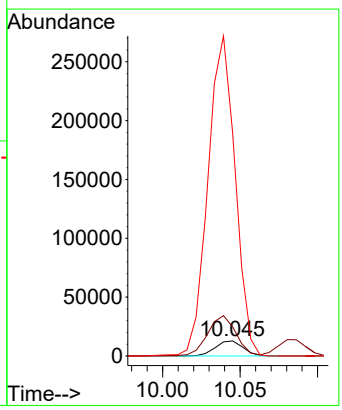


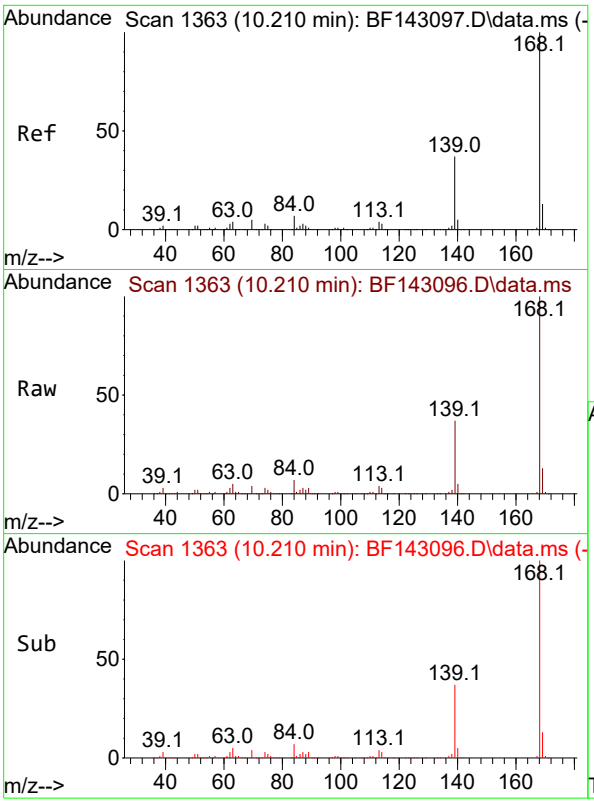


#54
2,4-Dinitrophenol
Concen: 19.749 ng
RT: 10.045 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:184 Resp: 15826

Ion	Ratio	Lower	Upper
184	100		
63	193.5	149.3	223.9
154	1488.1	1048.0	1572.0

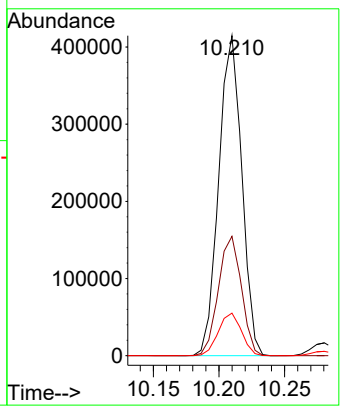




#55
Dibenzofuran
Concen: 20.792 ng
RT: 10.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:168 Resp: 50578

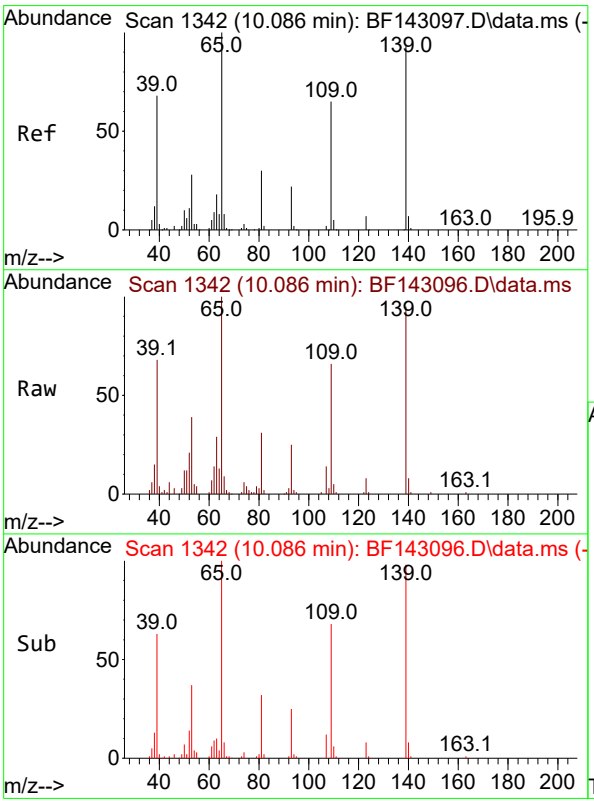
Ion	Ratio	Lower	Upper
168	100		
139	37.3	29.8	44.6
169	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

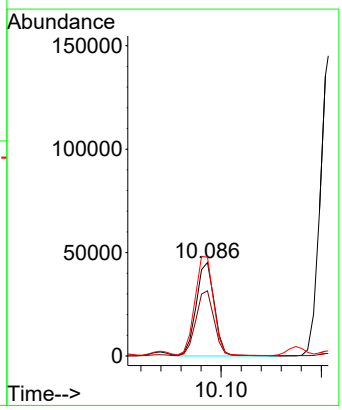
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

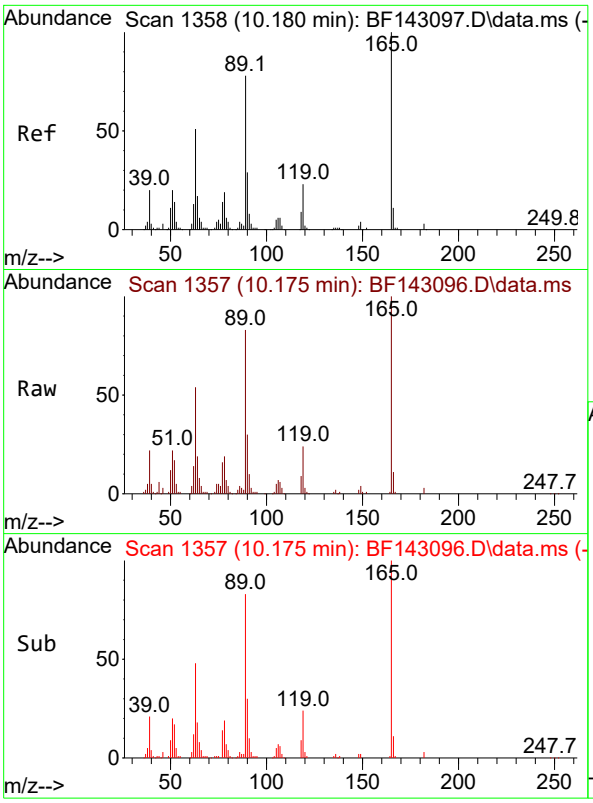


#56
4-Nitrophenol
Concen: 18.647 ng
RT: 10.086 min Scan# 1342
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:139 Resp: 57072

Ion	Ratio	Lower	Upper
139	100		
109	69.7	49.4	89.4
65	105.6	88.2	128.2

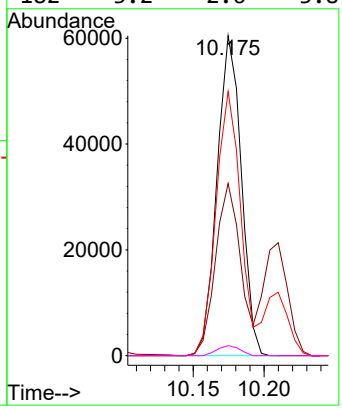




#57
2,4-Dinitrotoluene
Concen: 18.561 ng
RT: 10.175 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:165 Resp: 7176

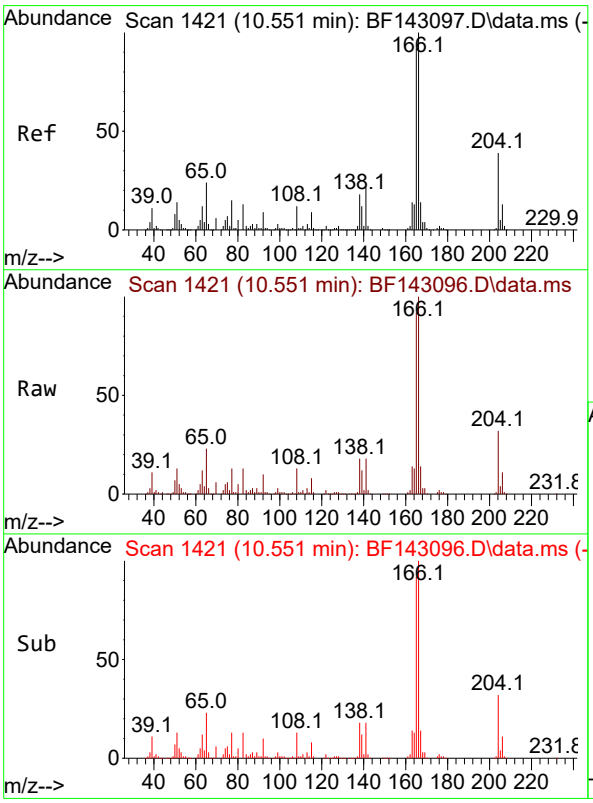
Ion	Ratio	Lower	Upper
165	100		
63	53.8	40.6	61.0
89	82.6	62.3	93.5
182	3.2	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

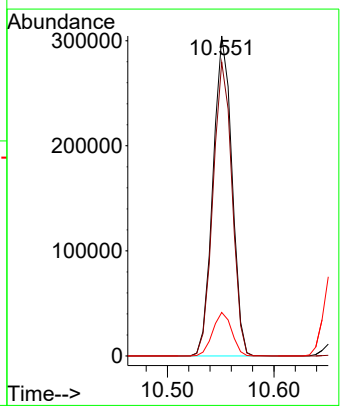
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

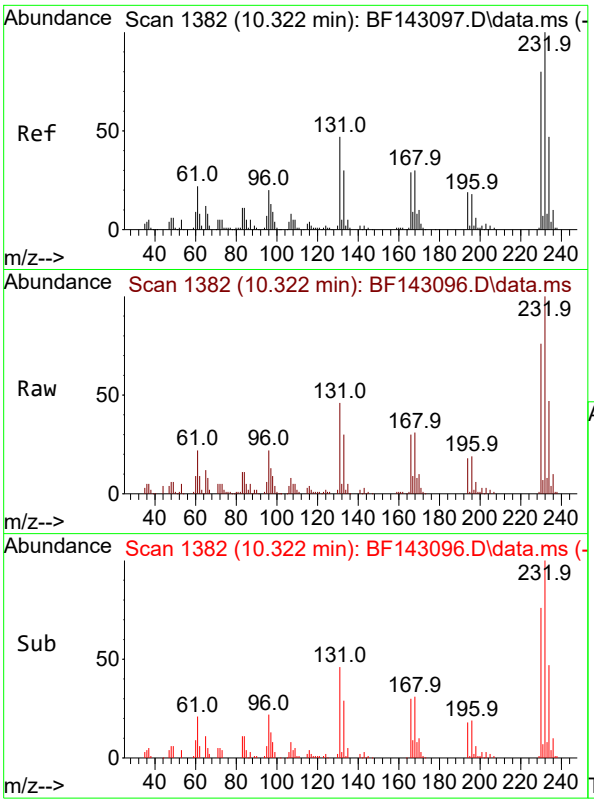


#58
Fluorene
Concen: 20.626 ng
RT: 10.551 min Scan# 1421
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:166 Resp: 376169

Ion	Ratio	Lower	Upper
166	100		
165	91.8	73.7	110.5
167	13.6	10.9	16.3

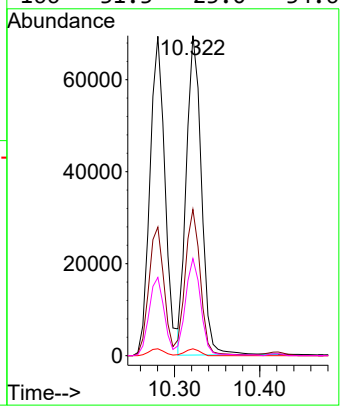




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.030 ng
RT: 10.322 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:232 Resp: 8562

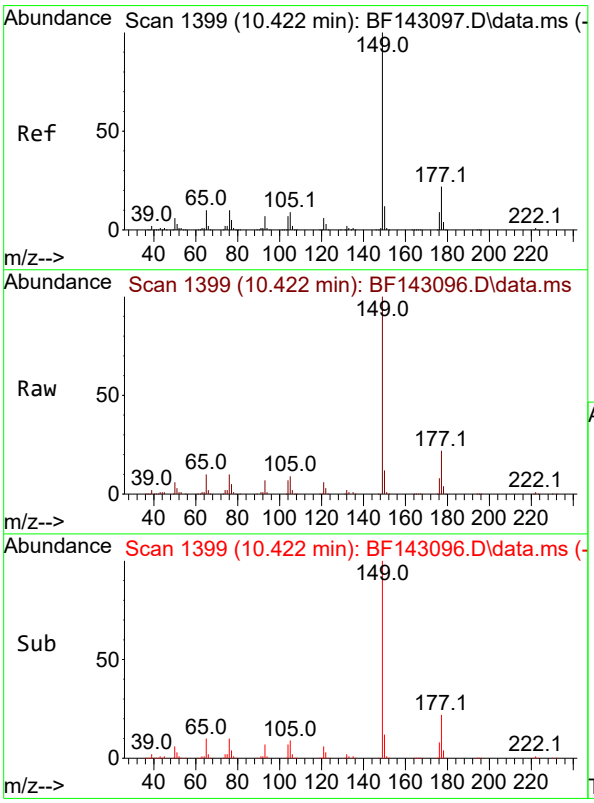
Ion	Ratio	Lower	Upper
232	100		
131	46.3	36.9	55.3
130	2.1	1.8	2.8
166	31.3	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

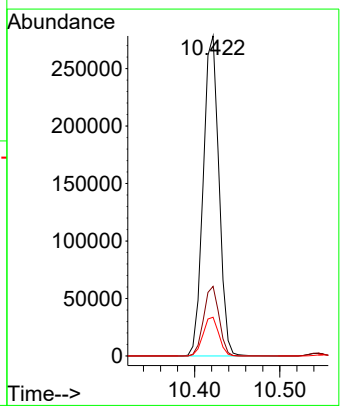
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

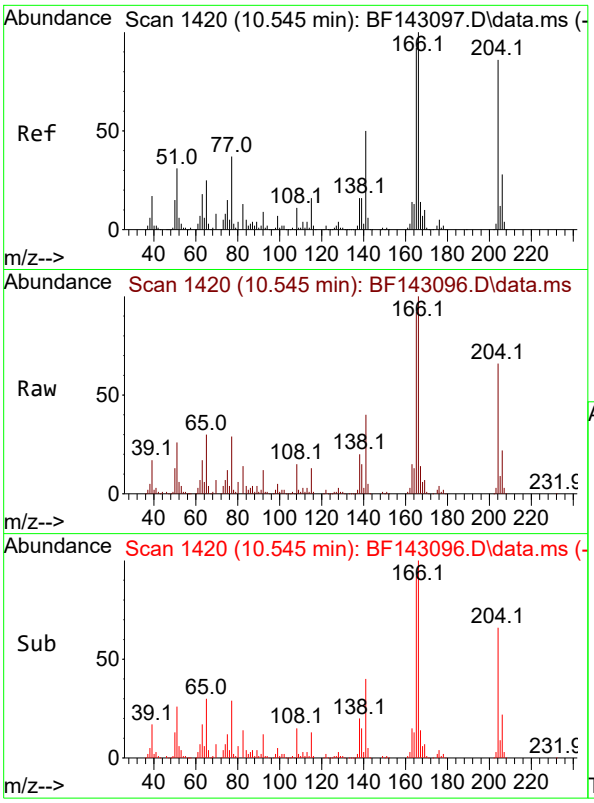


#60
Diethylphthalate
Concen: 20.710 ng
RT: 10.422 min Scan# 1399
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:149 Resp: 356111

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.3	25.9
150	12.1	9.9	14.9

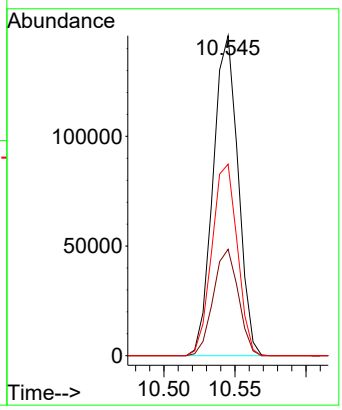




#61
4-Chlorophenyl-phenylether
Concen: 20.436 ng
RT: 10.545 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:204 Resp: 17864

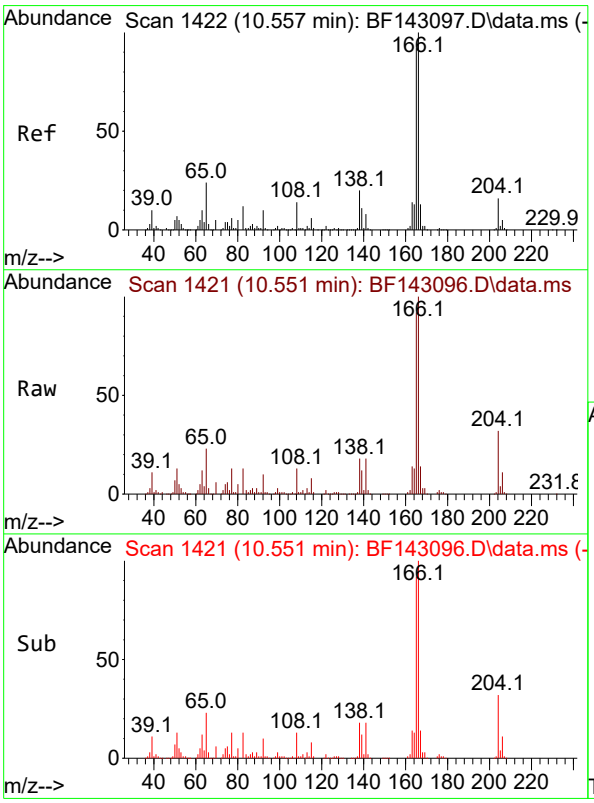
Ion	Ratio	Lower	Upper
204	100		
206	33.3	25.8	38.6
141	59.8	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

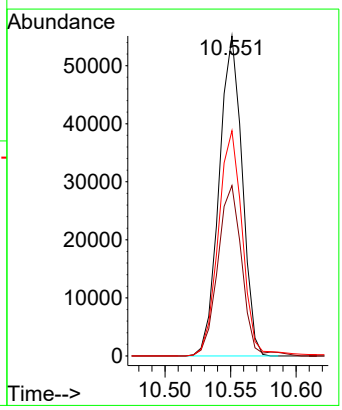
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

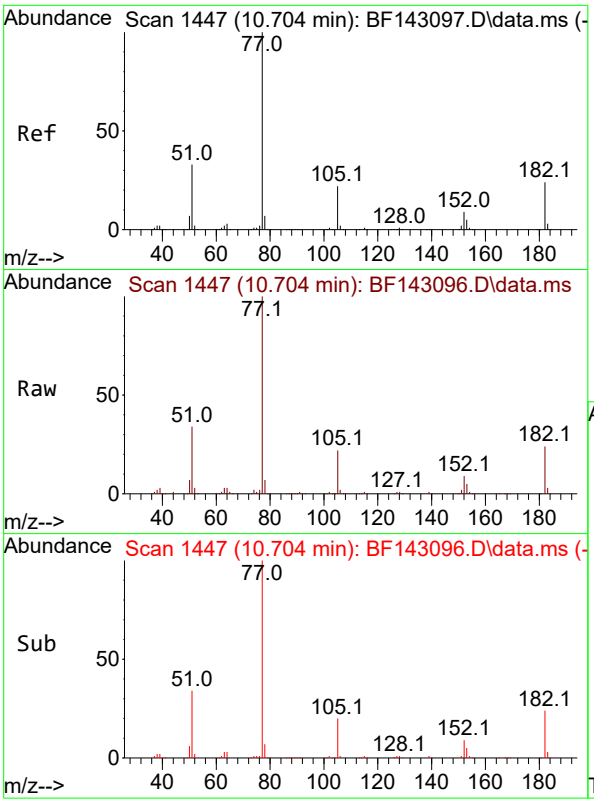


#62
4-Nitroaniline
Concen: 20.084 ng
RT: 10.551 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:138 Resp: 67264

Ion	Ratio	Lower	Upper
138	100		
92	53.2	30.4	70.4
108	70.4	49.5	89.5

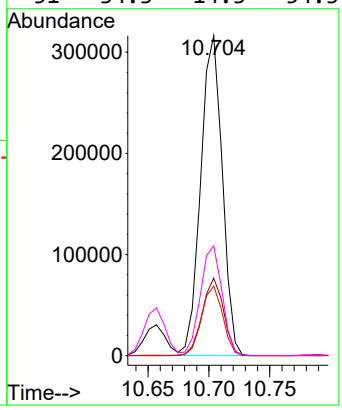




#63
Azobenzene
Concen: 20.478 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion: 77 Resp: 38941

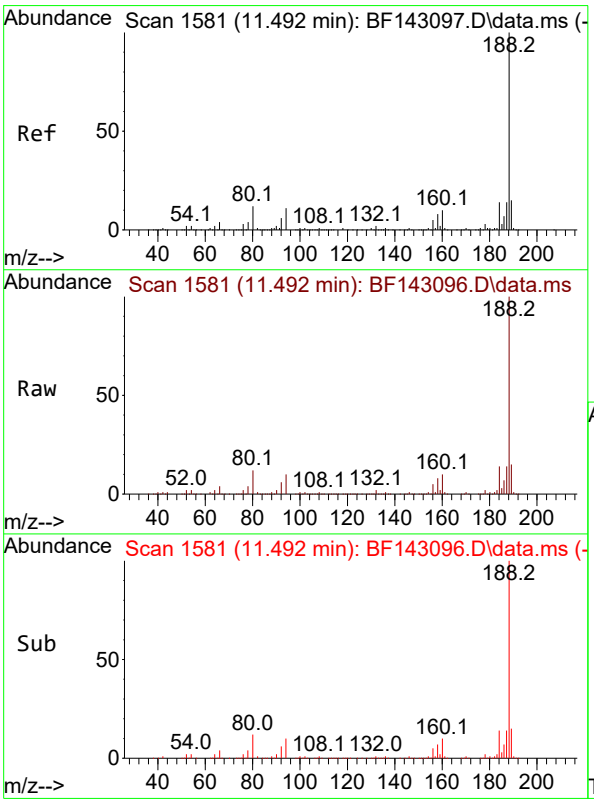
Ion	Ratio	Lower	Upper
77	100		
182	24.3	4.0	44.0
105	21.8	1.4	41.4
51	34.3	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

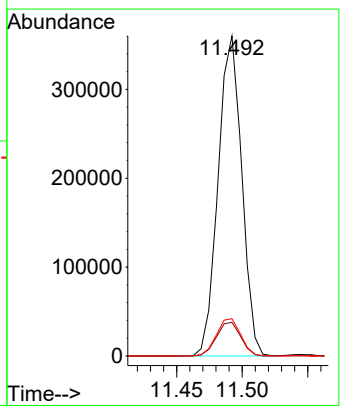
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

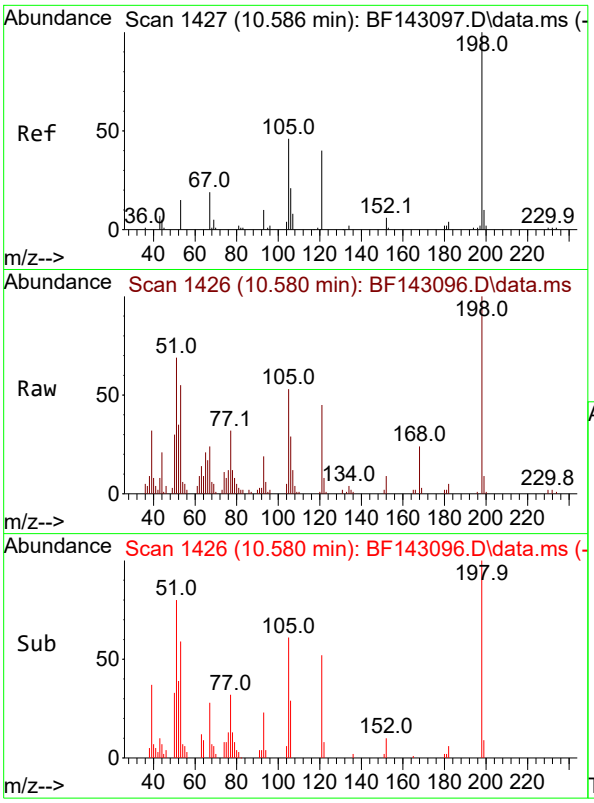


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:188 Resp: 451524

Ion	Ratio	Lower	Upper
188	100		
94	10.5	8.6	13.0
80	11.6	9.3	13.9





#65
4,6-Dinitro-2-methylphenol
Concen: 19.643 ng
RT: 10.580 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

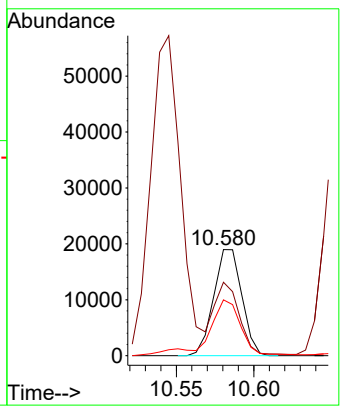
Tgt Ion:198 Resp: 2397

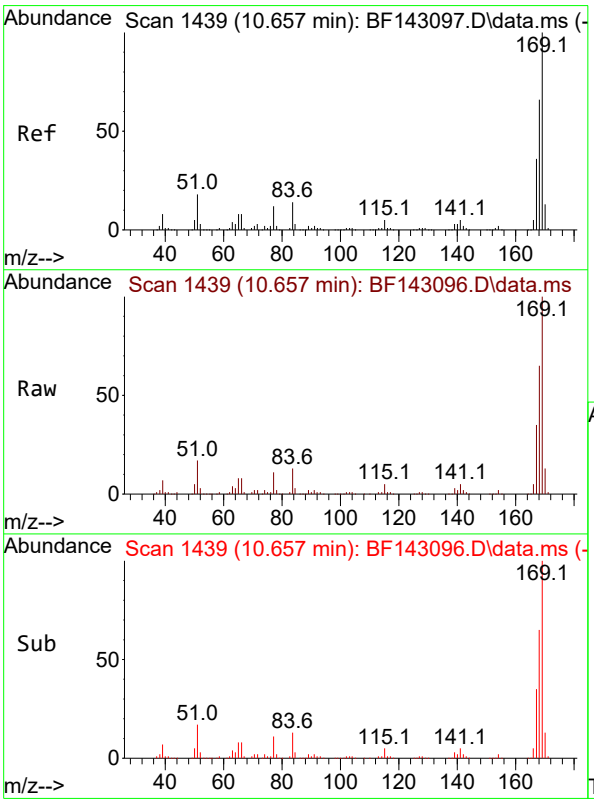
Ion	Ratio	Lower	Upper
198	100		
51	69.3	44.6	84.6
105	52.7	29.3	69.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

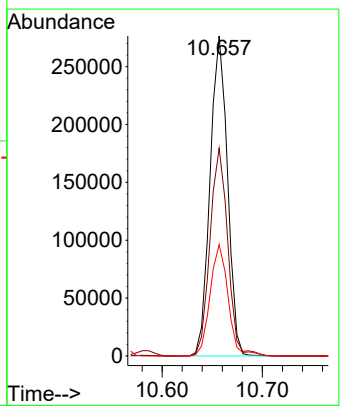


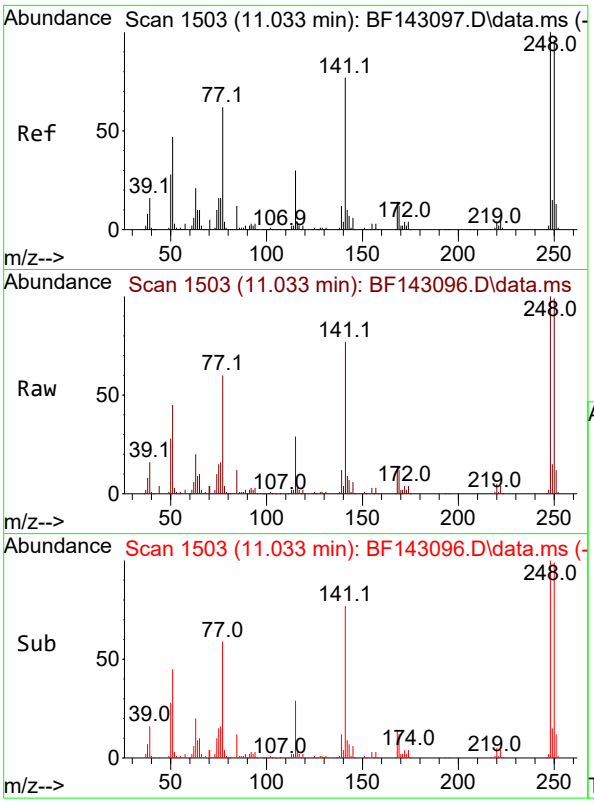


#66
n-Nitrosodiphenylamine
Concen: 20.948 ng
RT: 10.657 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:169 Resp: 332248

Ion	Ratio	Lower	Upper
169	100		
168	64.9	53.0	79.6
167	34.8	28.4	42.6

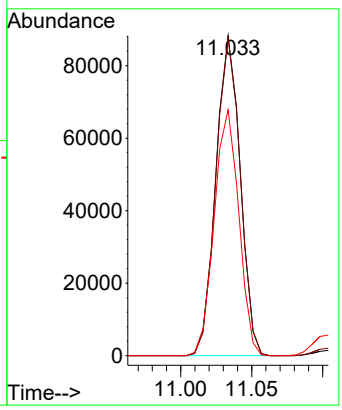




#67
4-Bromophenyl-phenylether
Concen: 20.535 ng
RT: 11.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:248 Resp: 10544

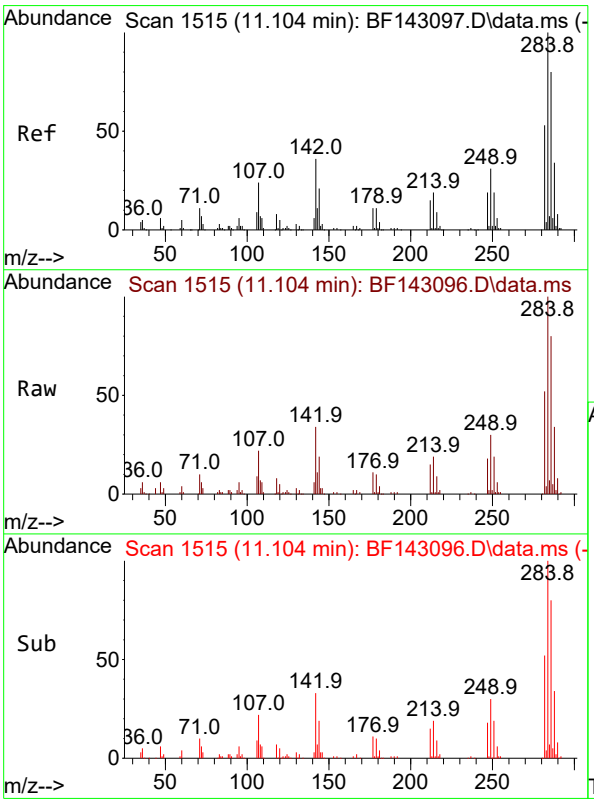
Ion	Ratio	Lower	Upper
248	100		
250	99.2	76.7	115.1
141	76.9	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

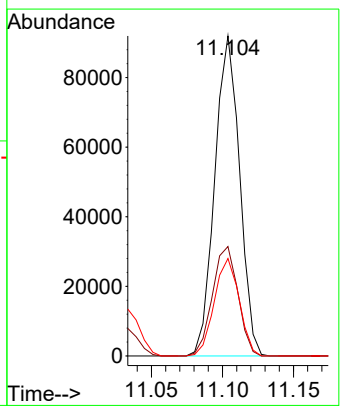
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

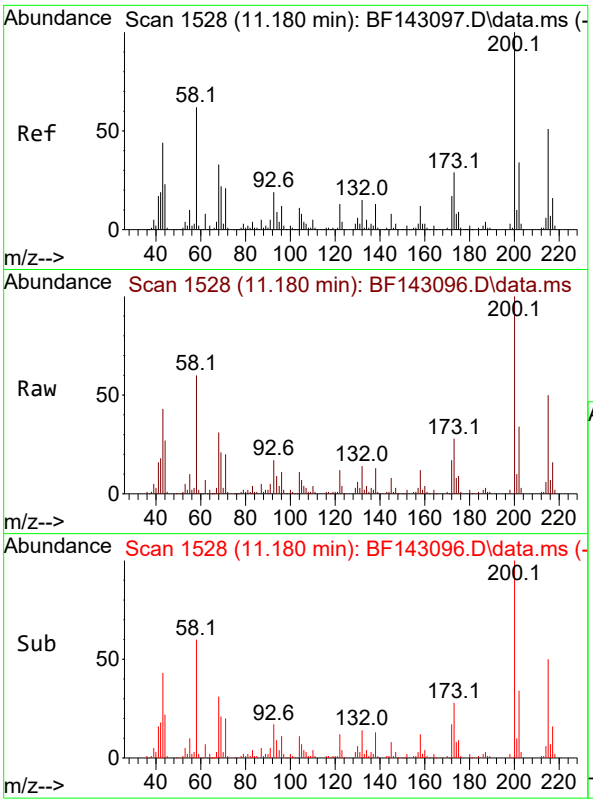


#68
Hexachlorobenzene
Concen: 20.507 ng
RT: 11.104 min Scan# 1515
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:284 Resp: 111727

Ion	Ratio	Lower	Upper
284	100		
142	34.2	28.9	43.3
249	30.4	24.6	37.0

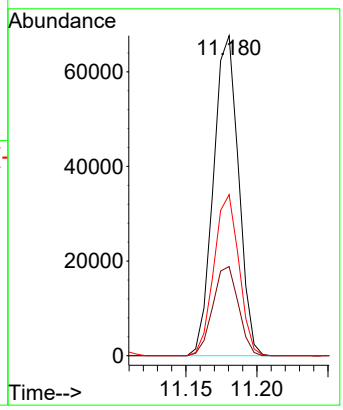




#69
Atrazine
Concen: 20.499 ng
RT: 11.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:200 Resp: 8318

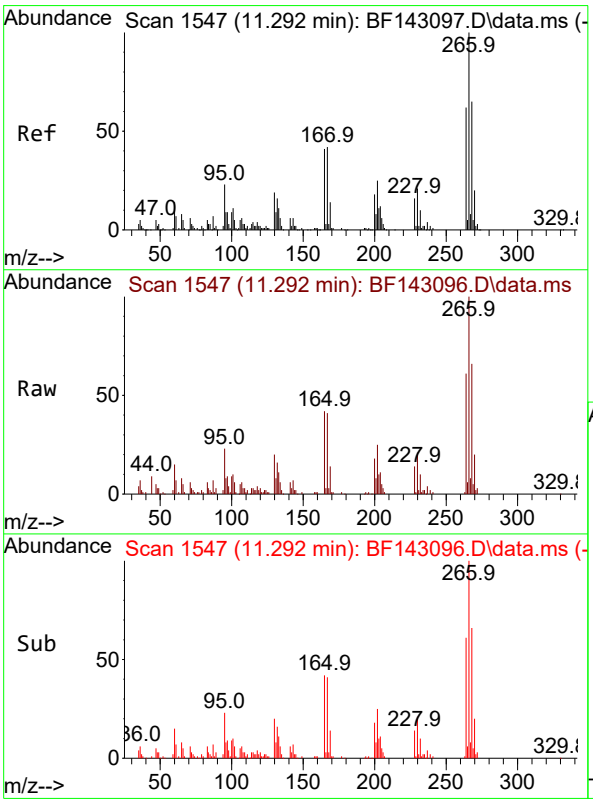
Ion	Ratio	Lower	Upper
200	100		
173	27.8	9.1	49.1
215	50.3	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

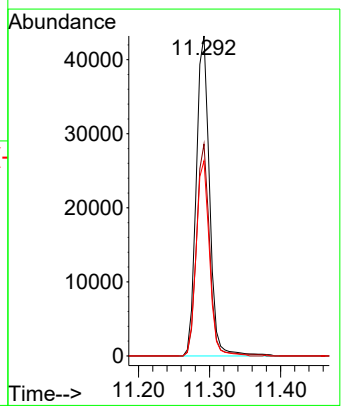
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

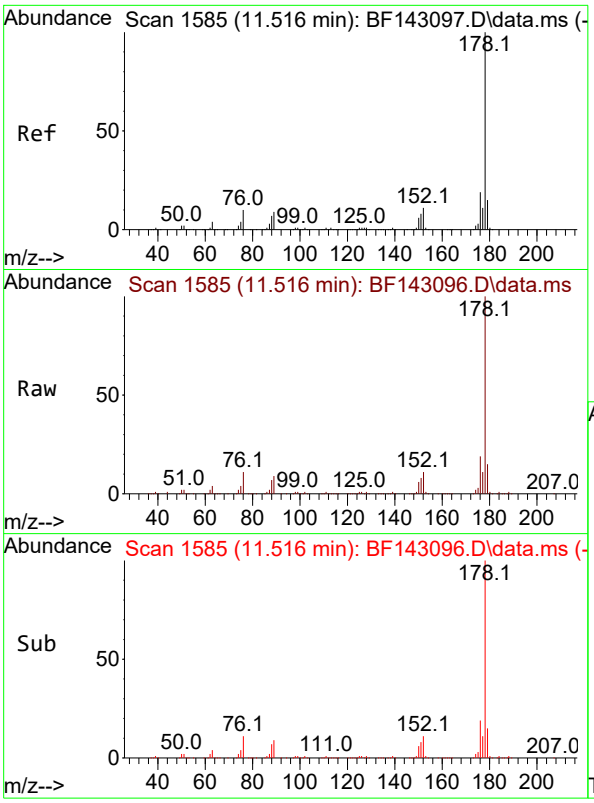


#70
Pentachlorophenol
Concen: 18.862 ng
RT: 11.292 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:266 Resp: 56380

Ion	Ratio	Lower	Upper
266	100		
268	66.2	51.8	77.6
264	61.0	49.7	74.5

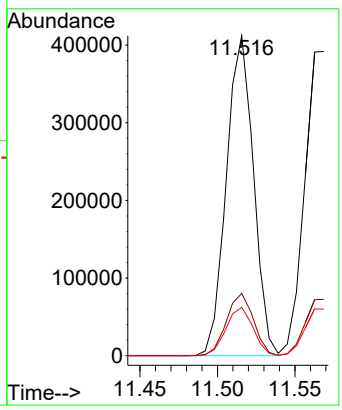




#71
Phenanthrene
Concen: 20.581 ng
RT: 11.516 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:178 Resp: 50152

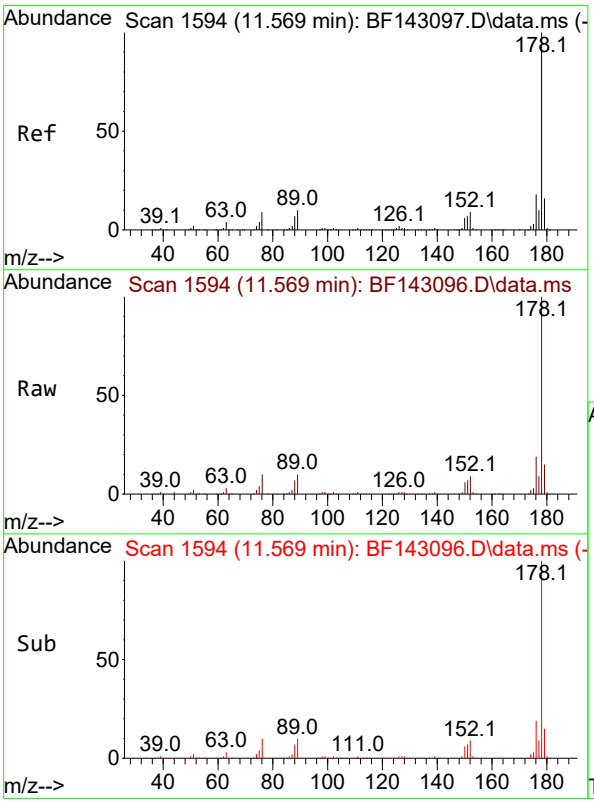
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.1	22.7
179	15.1	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

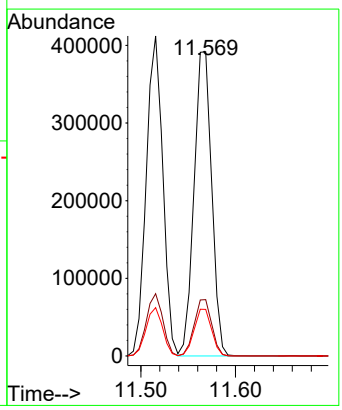
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

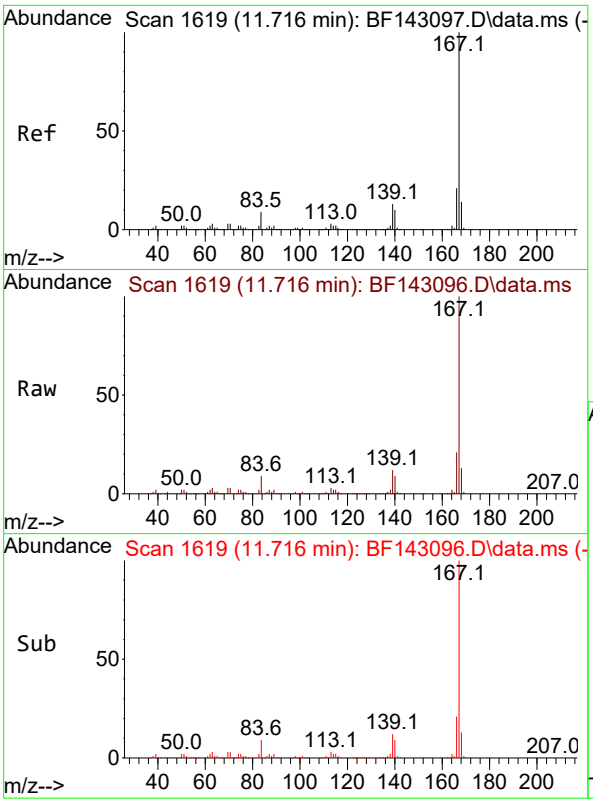


#72
Anthracene
Concen: 20.752 ng
RT: 11.569 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:178 Resp: 508525

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.3	12.4	18.6

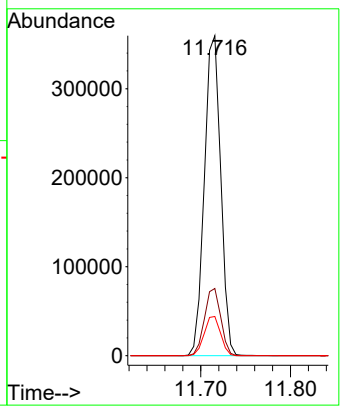




#73
Carbazole
Concen: 20.728 ng
RT: 11.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:167 Resp: 45504

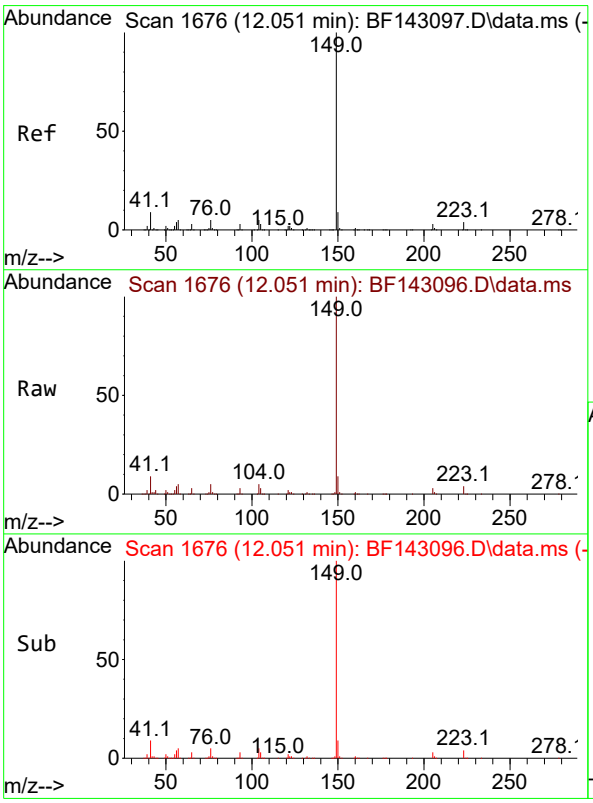
Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.4
139	12.3	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

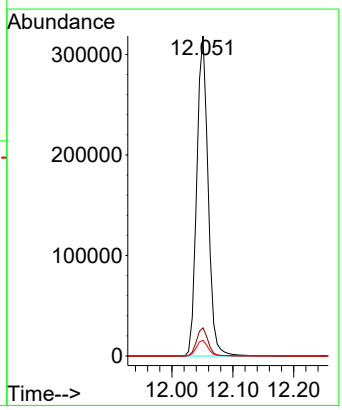
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

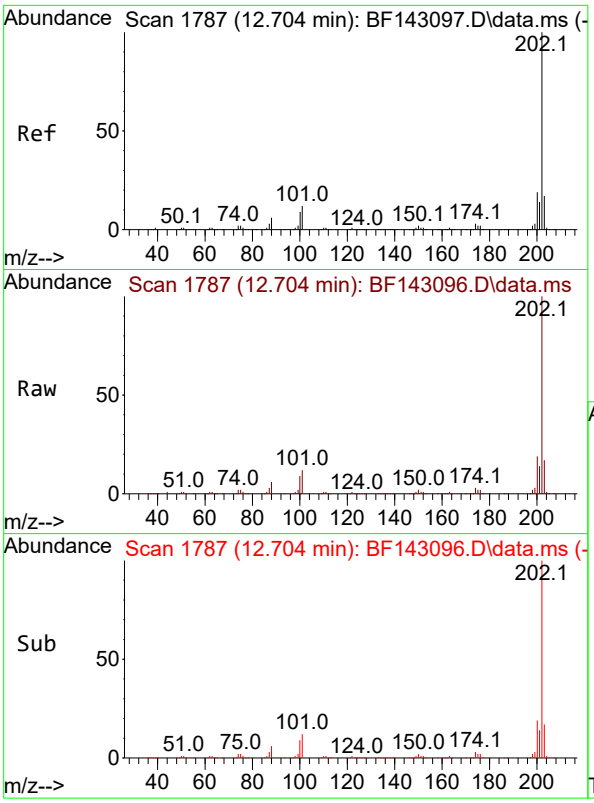


#74
Di-n-butylphthalate
Concen: 20.456 ng
RT: 12.051 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:149 Resp: 412206

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.3	10.9
104	4.9	3.8	5.8





#75
Fluoranthene
Concen: 20.556 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

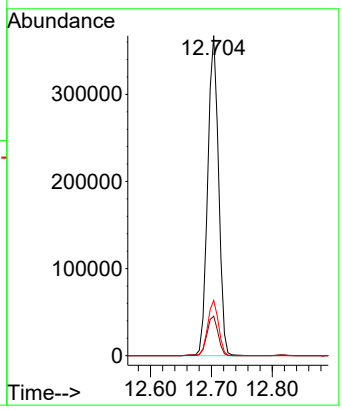
Tgt Ion:202 Resp: 45545

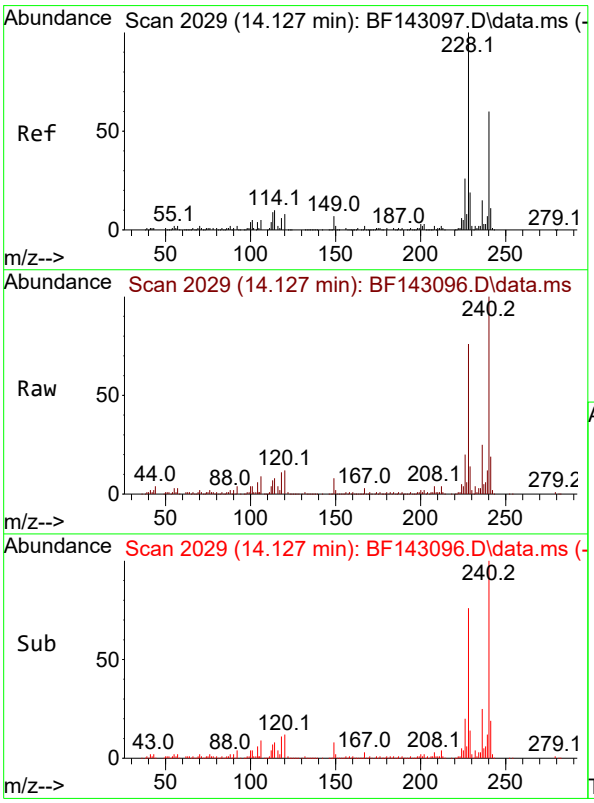
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.4
203	17.2	0.0	37.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

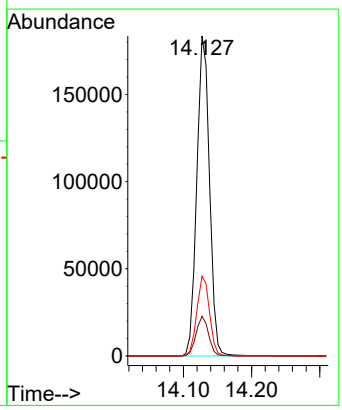


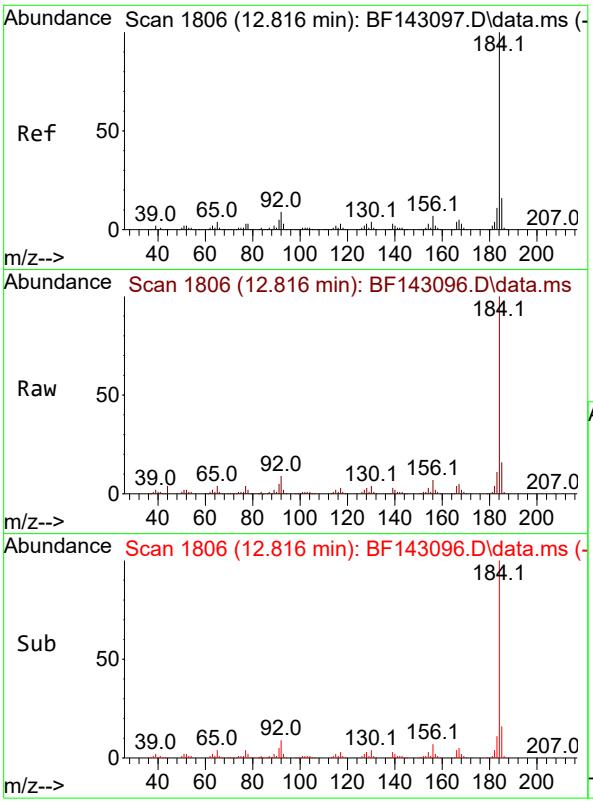


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:240 Resp: 236667

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	24.9	20.0	30.0

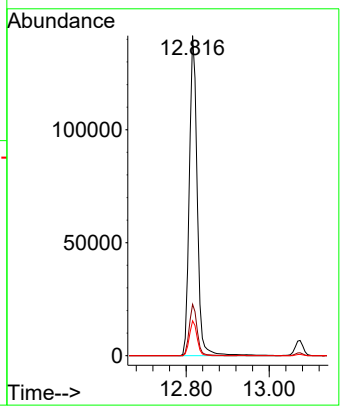




#77
Benzidine
Concen: 23.083 ng
RT: 12.816 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:184 Resp: 18611

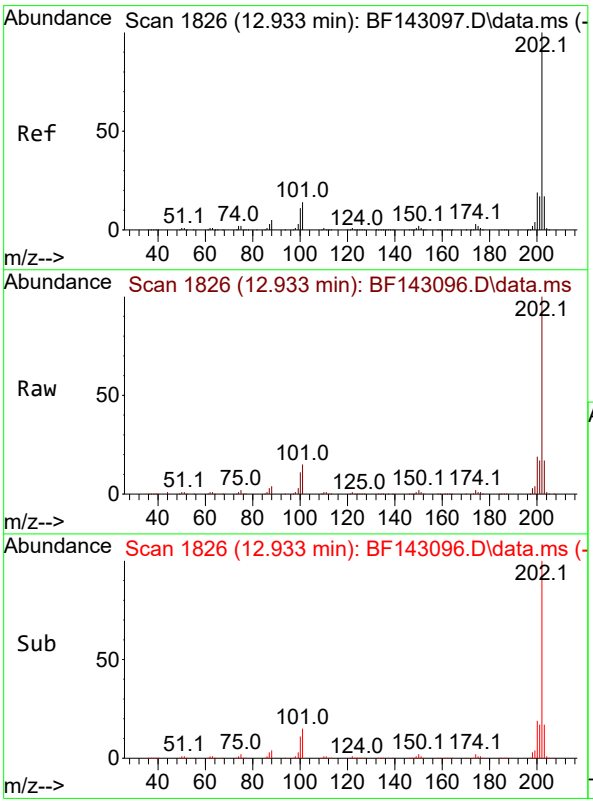
Ion	Ratio	Lower	Upper
184	100		
185	16.1	12.4	18.6
183	10.9	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

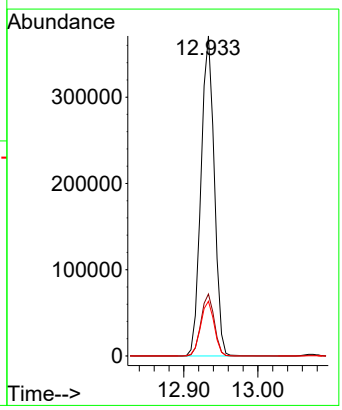
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

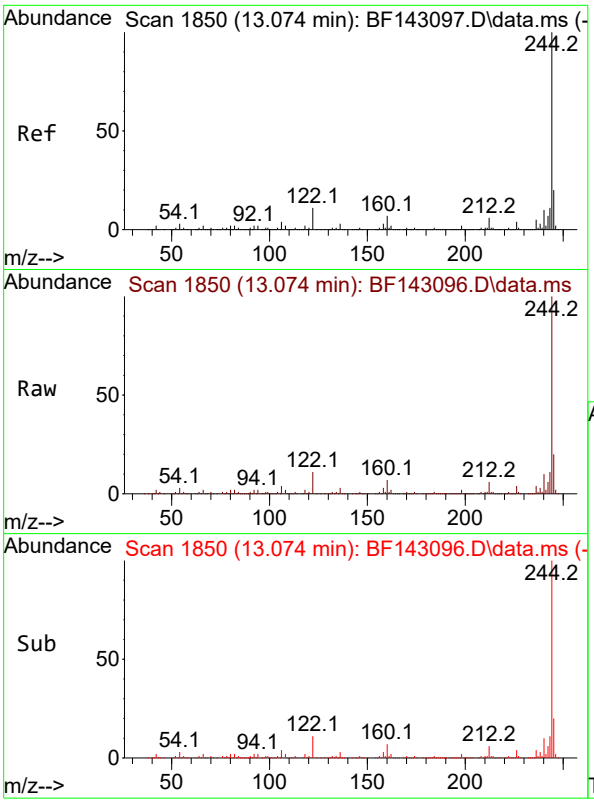


#78
Pyrene
Concen: 21.072 ng
RT: 12.933 min Scan# 1826
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:202 Resp: 462715

Ion	Ratio	Lower	Upper
202	100		
200	19.3	15.5	23.3
203	17.1	14.0	21.0

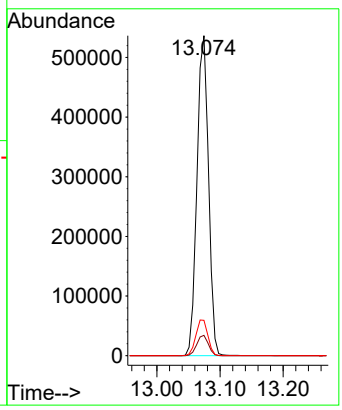




#79
Terphenyl-d14
Concen: 42.012 ng
RT: 13.074 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:244 Resp: 68017

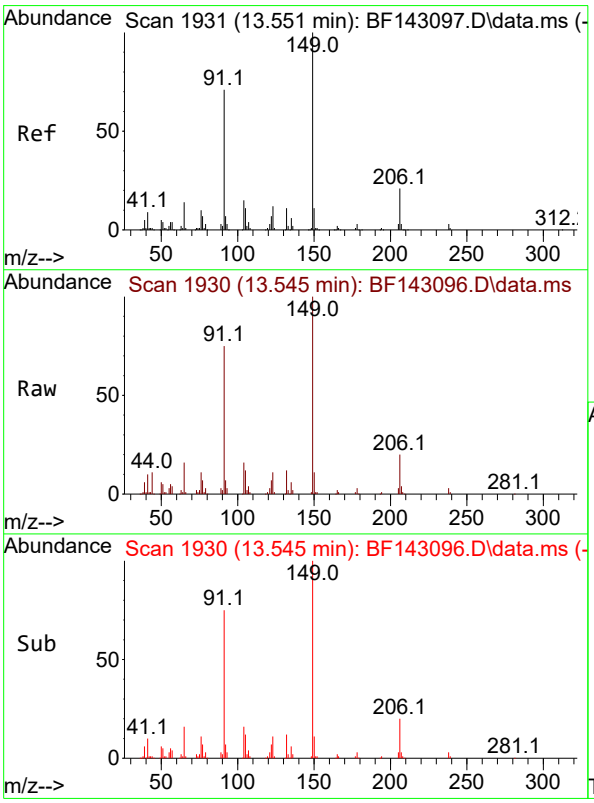
Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.2	7.8
122	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

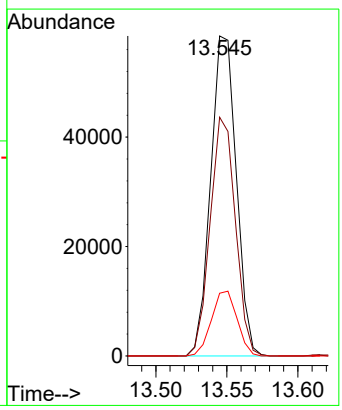
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

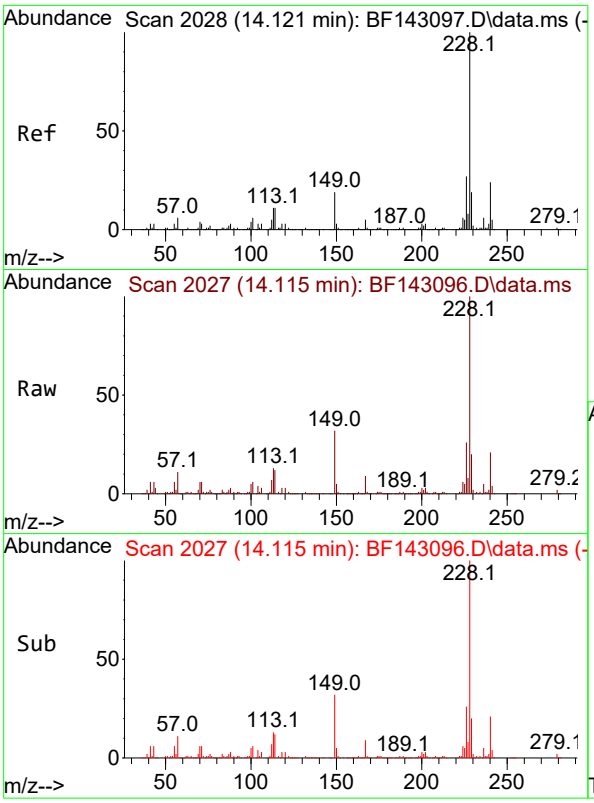


#80
Butylbenzylphthalate
Concen: 18.875 ng
RT: 13.545 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:149 Resp: 73439

Ion	Ratio	Lower	Upper
149	100		
91	74.6	57.0	85.4
206	19.6	17.2	25.8

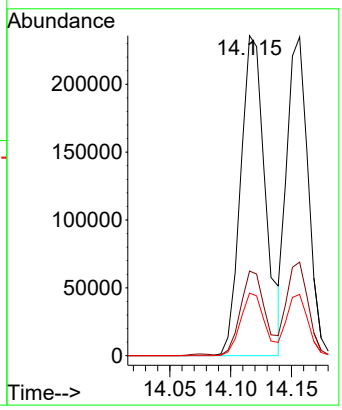




#81
Benzo(a)anthracene
Concen: 21.102 ng
RT: 14.115 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:228 Resp: 33279

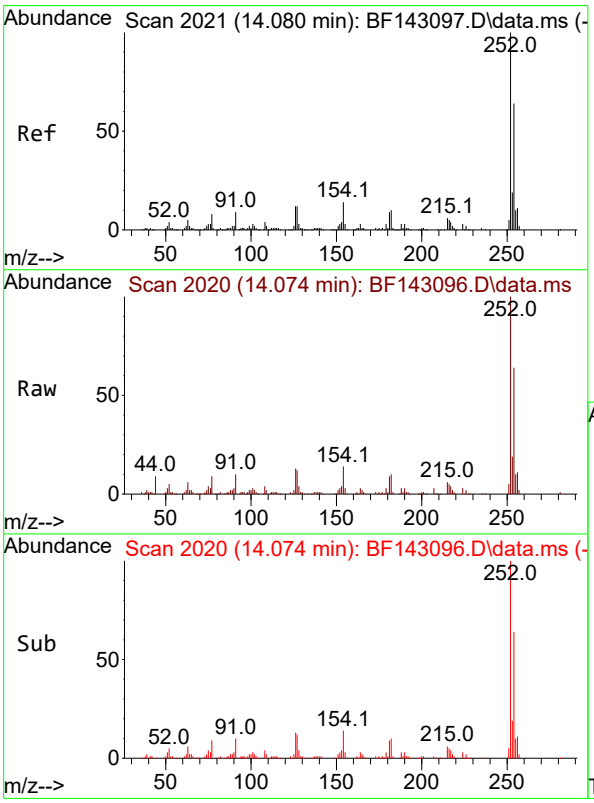
Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.3	31.9
229	19.6	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

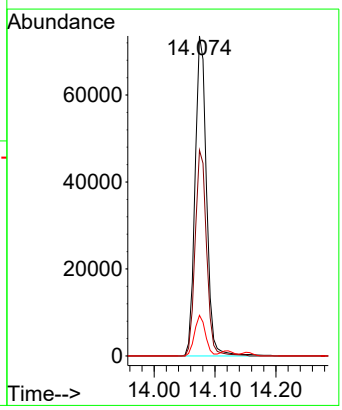
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

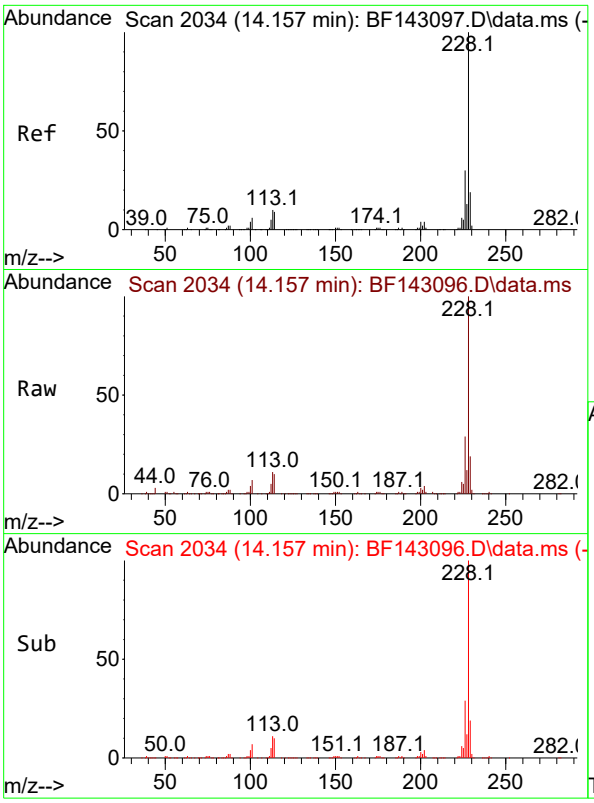


#82
3,3'-Dichlorobenzidine
Concen: 21.000 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:252 Resp: 96174

Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.5	77.3
126	12.7	9.4	14.0





#83
Chrysene
Concen: 19.732 ng
RT: 14.157 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

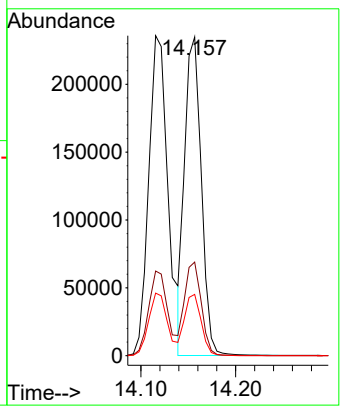
Tgt Ion:228 Resp: 28661(

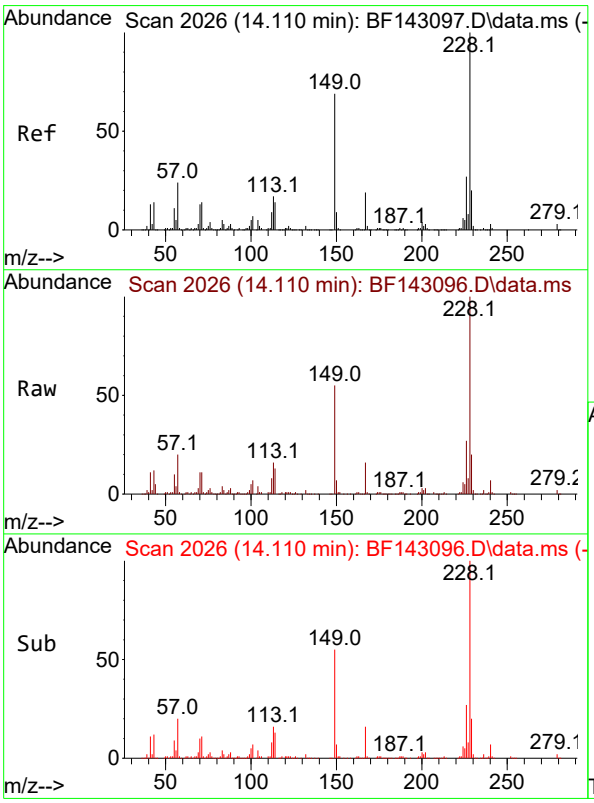
Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.4	35.2
229	19.2	15.3	22.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

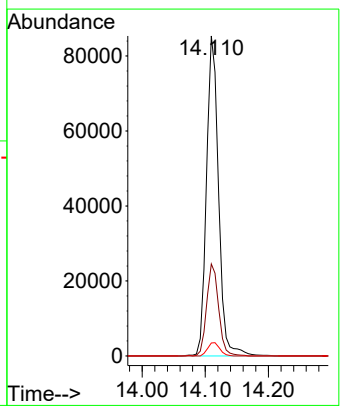


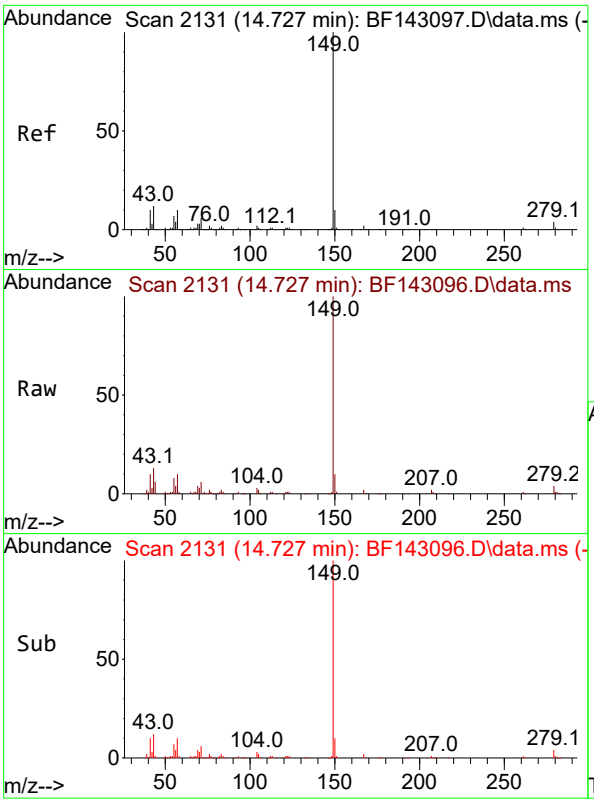


#84
Bis(2-ethylhexyl)phthalate
Concen: 19.236 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:149 Resp: 113349

Ion	Ratio	Lower	Upper
149	100		
167	28.8	21.9	32.9
279	4.0	3.4	5.0

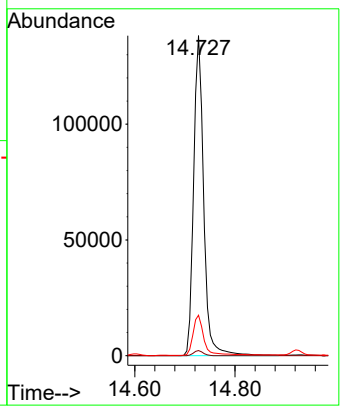




#85
Di-n-octyl phthalate
Concen: 19.817 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:149 Resp: 19200

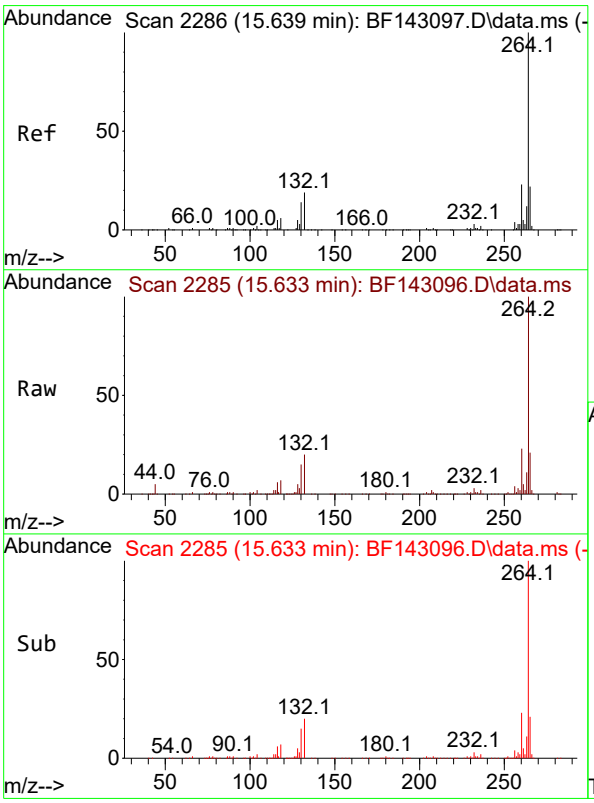
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	13.7	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

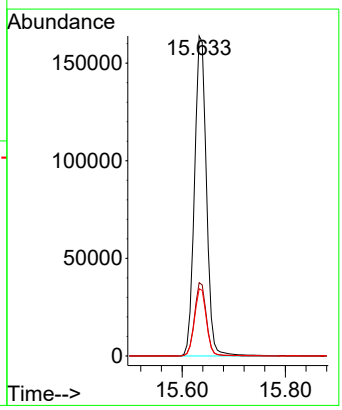
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

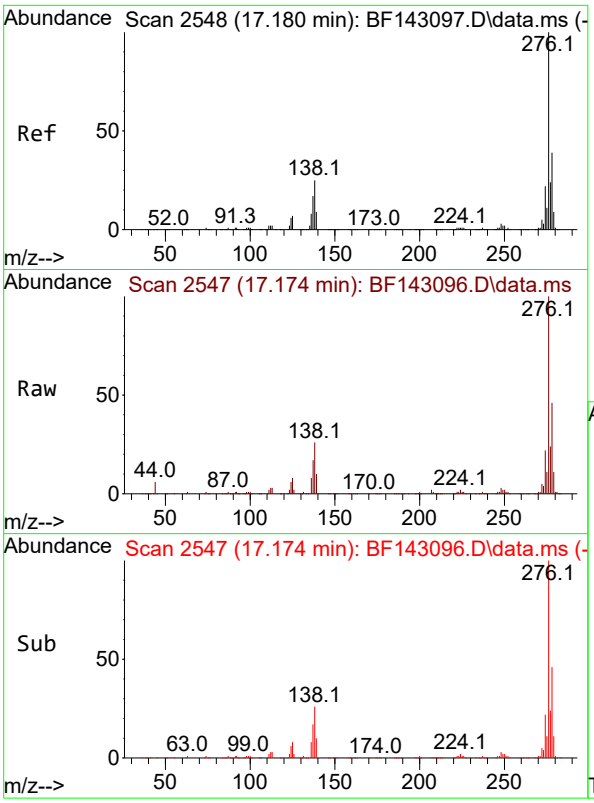


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:264 Resp: 262419

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.5	27.7
265	21.0	17.5	26.3

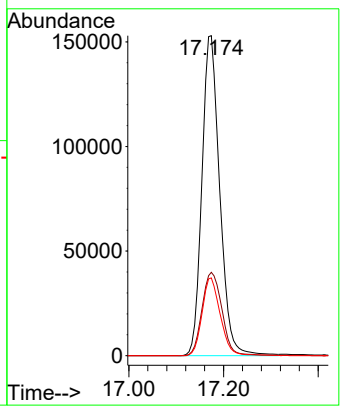




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.516 ng
RT: 17.174 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:276 Resp: 40042

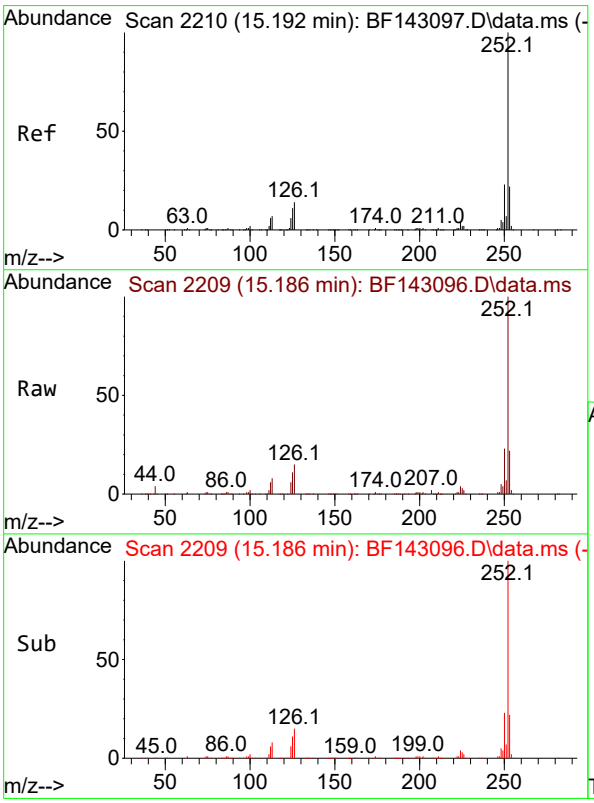
Ion	Ratio	Lower	Upper
276	100		
138	29.1	22.6	34.0
277	24.8	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

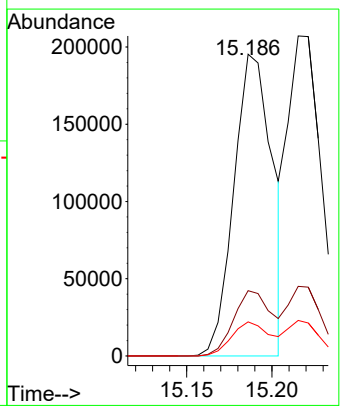
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

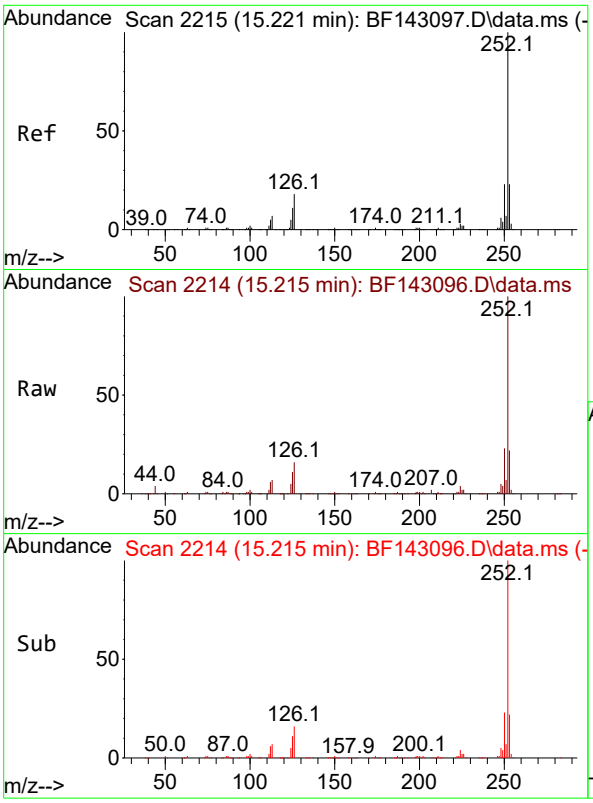


#88
Benzo(b)fluoranthene
Concen: 20.302 ng
RT: 15.186 min Scan# 2209
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:252 Resp: 307312

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	11.3	8.6	13.0

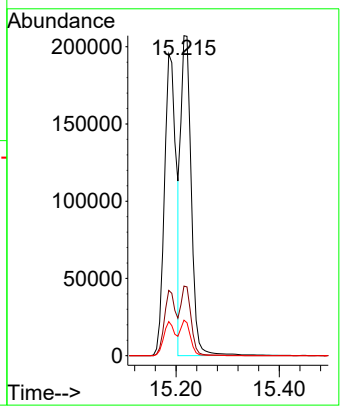




#89
Benzo(k)fluoranthene
Concen: 20.194 ng
RT: 15.215 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:252 Resp: 29161

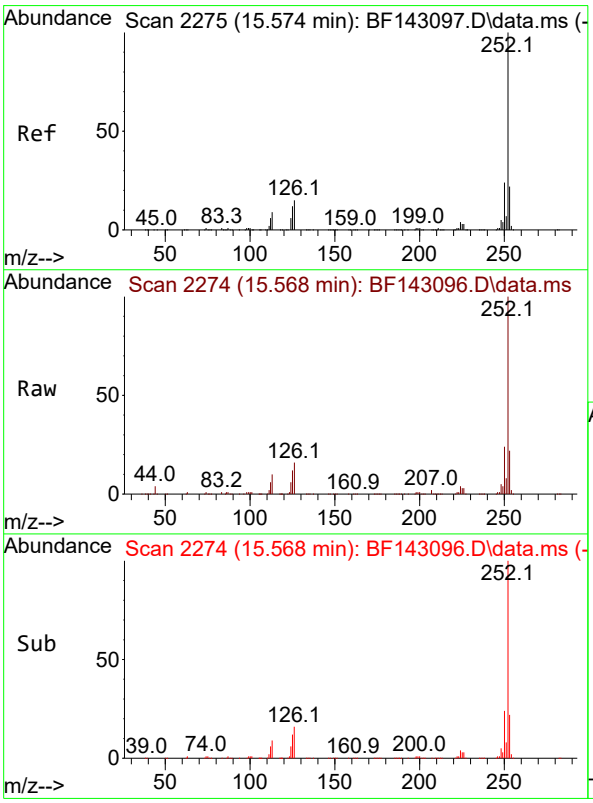
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	11.1	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

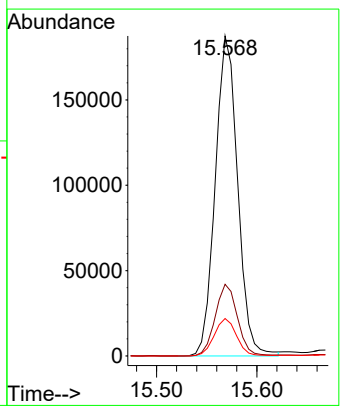
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

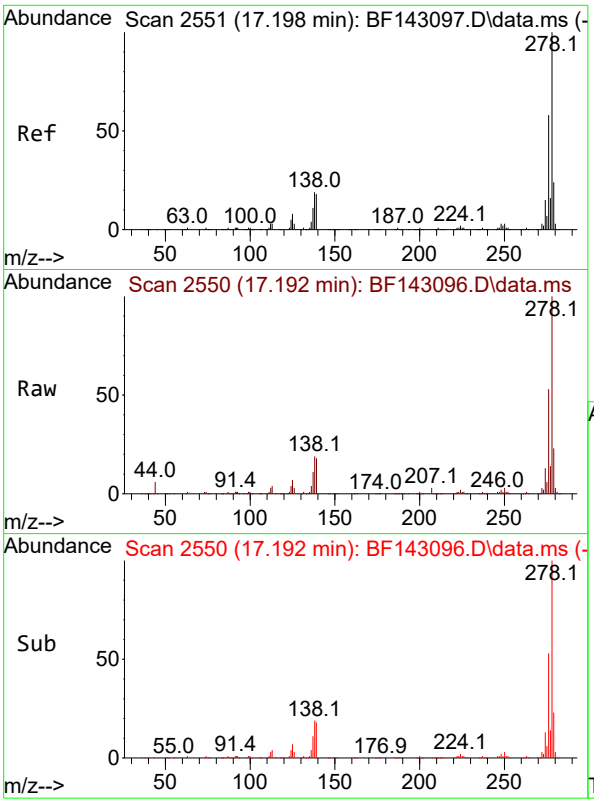


#90
Benzo(a)pyrene
Concen: 20.313 ng
RT: 15.568 min Scan# 2274
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:252 Resp: 290809

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	11.7	9.4	14.0

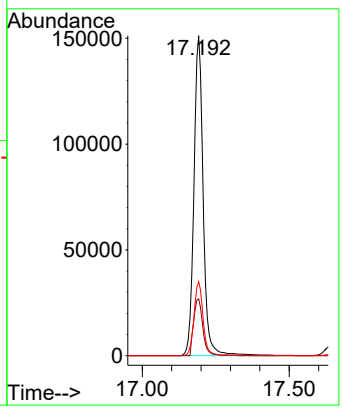




#91
Dibenzo(a,h)anthracene
Concen: 20.818 ng
RT: 17.192 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:278 Resp: 33215

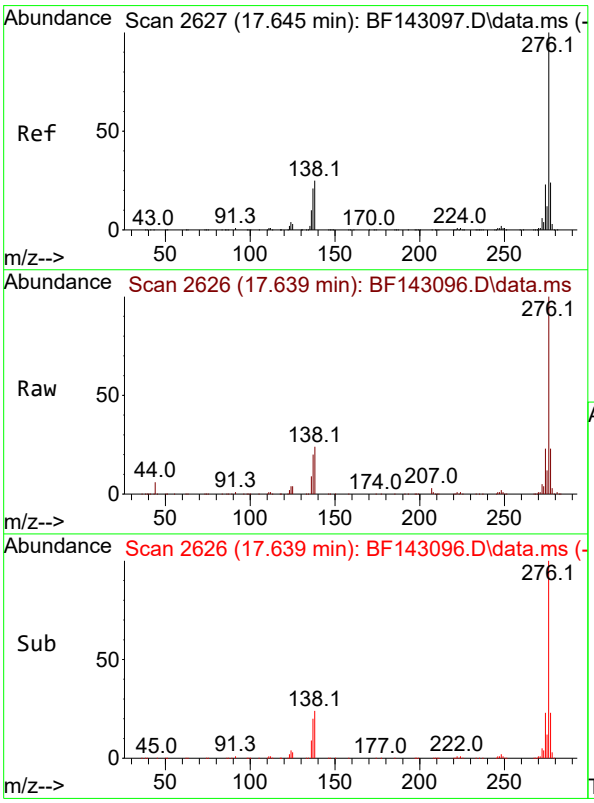
Ion	Ratio	Lower	Upper
278	100		
139	17.7	14.6	22.0
279	23.1	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

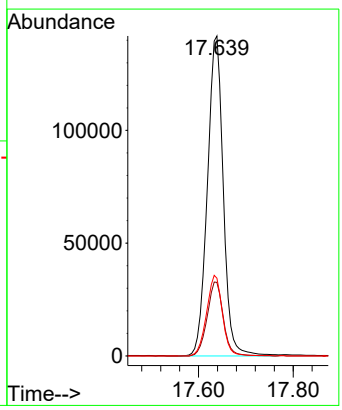
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 20.376 ng
RT: 17.639 min Scan# 2626
Delta R.T. -0.006 min
Lab File: BF143096.D
Acq: 15 Jul 2025 14:36

Tgt Ion:276 Resp: 331447

Ion	Ratio	Lower	Upper
276	100		
277	23.0	19.2	28.8
138	24.3	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143097.D
Acq On : 15 Jul 2025 15:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 17:40:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	123440	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	466428	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	227730	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	369241	20.000	ng	0.00
76) Chrysene-d12	14.127	240	192349	20.000	ng	0.00
86) Perylene-d12	15.639	264	226517	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	619840	79.335	ng	0.00
7) Phenol-d6	6.587	99	772641	78.673	ng	0.00
23) Nitrobenzene-d5	7.528	82	694498m	83.526	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	170969	84.198	ng	0.00
45) 2-Fluorobiphenyl	9.328	172	1326482	77.428	ng	0.00
79) Terphenyl-d14	13.074	244	1033540	78.547	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.810	88	154739	39.787	ng	100
3) Pyridine	3.581	79	393514	39.957	ng	100
4) n-Nitrosodimethylamine	3.522	42	201552	39.500	ng	100
6) Aniline	6.628	93	544405	39.365	ng	100
8) 2-Chlorophenol	6.751	128	314192	40.025	ng	100
9) Benzaldehyde	6.516	77	358216	47.869	ng	100
10) Phenol	6.598	94	421819m	39.676	ng	
11) bis(2-Chloroethyl)ether	6.698	93	323129	39.260	ng	100
12) 1,3-Dichlorobenzene	6.910	146	349154	39.371	ng	100
13) 1,4-Dichlorobenzene	6.987	146	348706	39.084	ng	100
14) 1,2-Dichlorobenzene	7.140	146	336818	39.587	ng	100
15) Benzyl Alcohol	7.098	79	288056	39.585	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.239	45	593735	39.134	ng	100
17) 2-Methylphenol	7.204	107	267472	39.484	ng	100
18) Hexachloroethane	7.487	117	116640	40.159	ng	100
19) n-Nitroso-di-n-propyla...	7.375	70	237958	39.549	ng	100
20) 3+4-Methylphenols	7.363	107	334719	40.291	ng	100
22) Acetophenone	7.375	105	437447	38.906	ng	100
24) Nitrobenzene	7.545	77	332013	41.364	ng	100
25) Isophorone	7.787	82	632327	39.346	ng	100
26) 2-Nitrophenol	7.863	139	112314	36.079	ng	100
27) 2,4-Dimethylphenol	7.892	122	298241	39.984	ng	100
28) bis(2-Chloroethoxy)met...	7.992	93	381576	39.155	ng	100
29) 2,4-Dichlorophenol	8.098	162	248676	40.752	ng	100
30) 1,2,4-Trichlorobenzene	8.192	180	274944	39.701	ng	100
31) Naphthalene	8.275	128	900967	38.898	ng	100
32) Benzoic acid	7.987	122	133968m	37.684	ng	
33) 4-Chloroaniline	8.310	127	371249	39.858	ng	100
34) Hexachlorobutadiene	8.392	225	165576	39.978	ng	100
35) Caprolactam	8.669	113	77472	40.657	ng	100
36) 4-Chloro-3-methylphenol	8.786	107	272885	40.145	ng	100
37) 2-Methylnaphthalene	8.963	142	540844	39.141	ng	100
38) 1-Methylnaphthalene	9.063	142	562696	39.263	ng	100
40) 1,2,4,5-Tetrachloroben...	9.128	216	263160	39.653	ng	100
41) Hexachlorocyclopentadiene	9.122	237	147221	40.011	ng	100
43) 2,4,6-Trichlorophenol	9.233	196	171419	41.569	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143097.D
Acq On : 15 Jul 2025 15:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 15 17:40:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.269	196	179101	41.422	ng	100
46) 1,1'-Biphenyl	9.428	154	713513	39.288	ng	100
47) 2-Chloronaphthalene	9.451	162	527800	39.561	ng	100
48) 2-Nitroaniline	9.533	65	149322	38.182	ng	100
49) Acenaphthylene	9.869	152	892054	40.126	ng	100
50) Dimethylphthalate	9.722	163	572658	39.971	ng	100
51) 2,6-Dinitrotoluene	9.775	165	106468	38.213	ng	100
52) Acenaphthene	10.039	154	513370	39.131	ng	100
53) 3-Nitroaniline	9.945	138	130953	42.301	ng	100
54) 2,4-Dinitrophenol	10.045	184	31236	37.582	ng	100
55) Dibenzofuran	10.210	168	772862	39.524	ng	100
56) 4-Nitrophenol	10.086	139	101948	41.436	ng	100
57) 2,4-Dinitrotoluene	10.180	165	134243	38.682	ng	100
58) Fluorene	10.551	166	567511	38.710	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.322	232	142027	41.334	ng	100
60) Diethylphthalate	10.422	149	557712	40.349	ng	100
61) 4-Chlorophenyl-phenyle...	10.545	204	279817	39.822	ng	100
62) 4-Nitroaniline	10.557	138	113355	42.106	ng	100
63) Azobenzene	10.704	77	604710	39.558	ng	100
65) 4,6-Dinitro-2-methylph...	10.586	198	47349	37.223	ng	100
66) n-Nitrosodiphenylamine	10.657	169	503590	38.827	ng	100
67) 4-Bromophenyl-phenylether	11.033	248	164133	39.088	ng	100
68) Hexachlorobenzene	11.104	284	173911	39.034	ng	100
69) Atrazine	11.180	200	133416	40.206	ng	100
70) Pentachlorophenol	11.292	266	97625	39.938	ng	100
71) Phenanthrene	11.516	178	769372	38.609	ng	100
72) Anthracene	11.569	178	780754	38.961	ng	100
73) Carbazole	11.716	167	692468	38.572	ng	100
74) Di-n-butylphthalate	12.051	149	680394	41.288	ng	100
75) Fluoranthene	12.704	202	708736	39.115	ng	100
77) Benzidine	12.816	184	321029	48.989	ng	100
78) Pyrene	12.933	202	708631	39.706	ng	100
80) Butylbenzylphthalate	13.551	149	132061	37.625	ng	100
81) Benzo(a)anthracene	14.121	228	518137	40.424	ng	100
82) 3,3'-Dichlorobenzidine	14.080	252	148294	39.841	ng	100
83) Chrysene	14.157	228	461979	39.134	ng	100
84) Bis(2-ethylhexyl)phtha...	14.110	149	198176	37.454	ng	100
85) Di-n-octyl phthalate	14.727	149	354747	36.531	ng	100
87) Indeno(1,2,3-cd)pyrene	17.180	276	689277	40.912	ng	100
88) Benzo(b)fluoranthene	15.192	252	490240	37.520	ng	100
89) Benzo(k)fluoranthene	15.221	252	520058	41.721	ng	100
90) Benzo(a)pyrene	15.574	252	509307	41.215	ng	100
91) Dibenzo(a,h)anthracene	17.198	278	561661	40.782	ng	100
92) Benzo(g,h,i)perylene	17.645	276	569850	40.584	ng	100

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

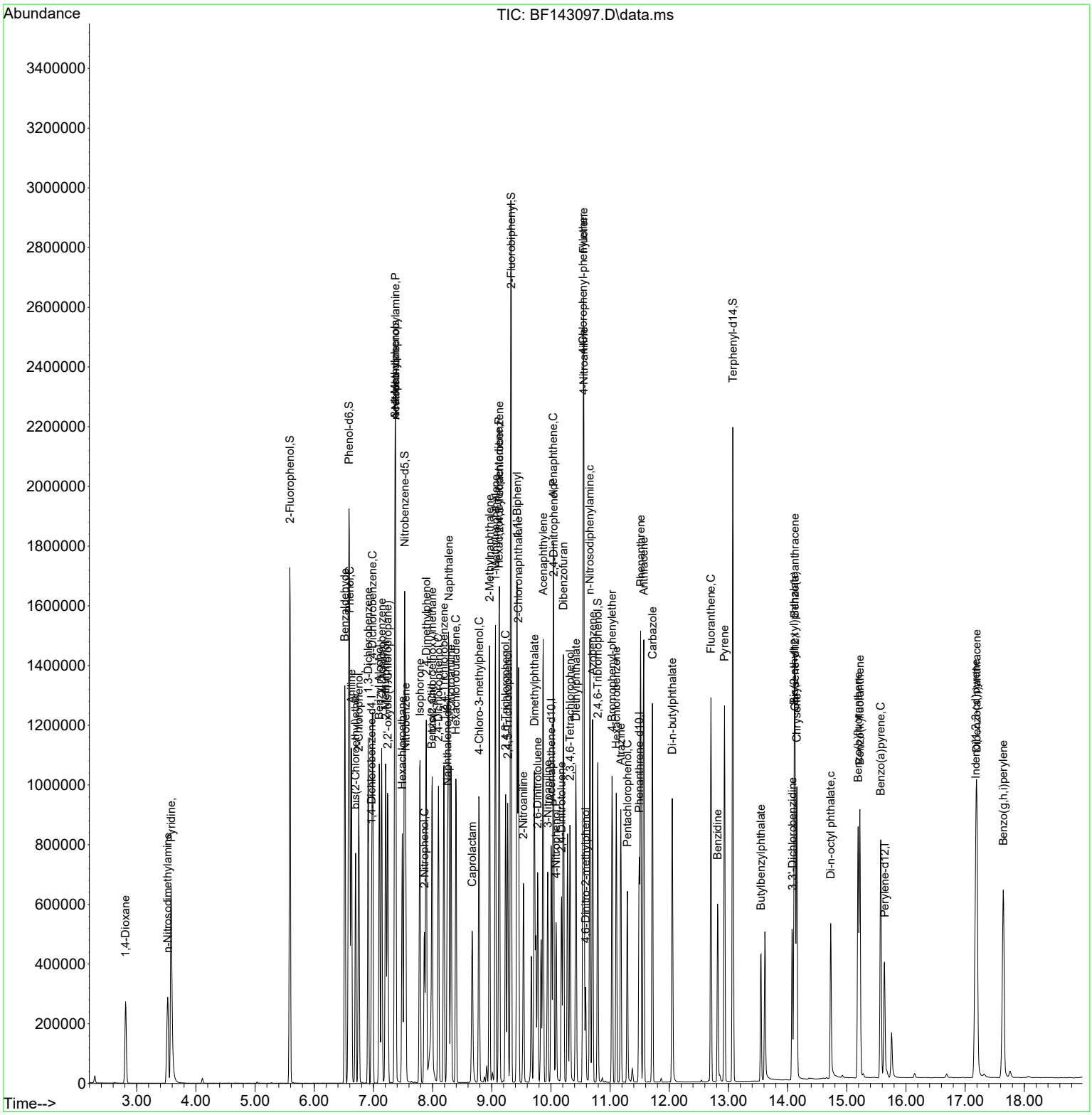
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143097.D
Acq On : 15 Jul 2025 15:05
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

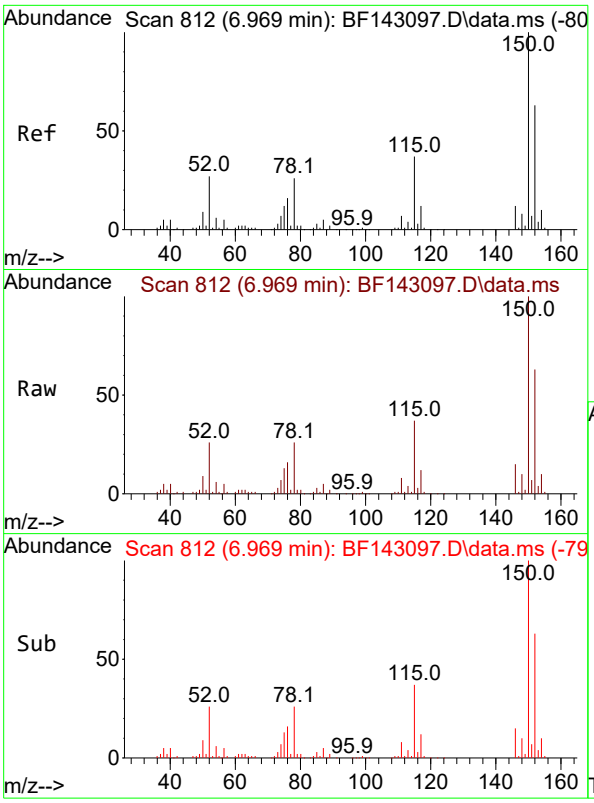
Quant Time: Jul 15 17:40:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

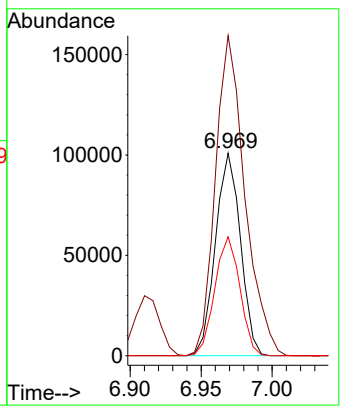




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:152 Resp: 12344

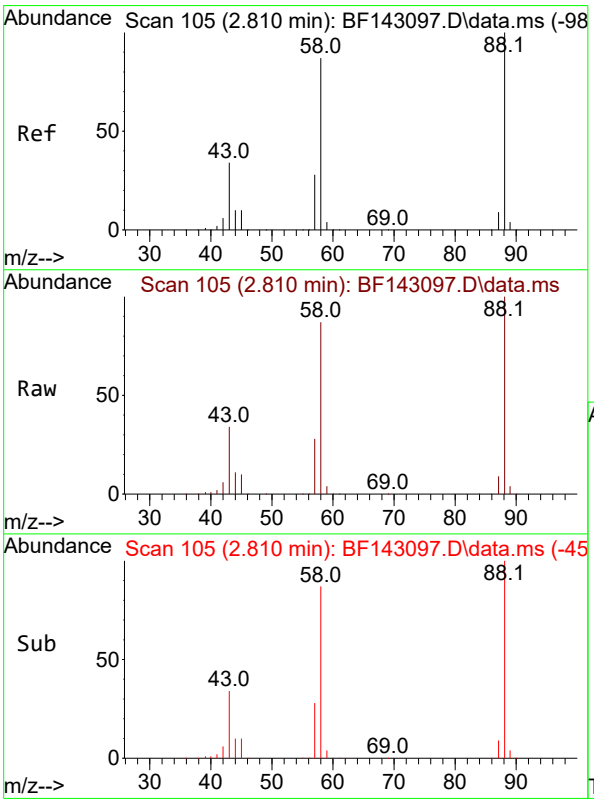
Ion	Ratio	Lower	Upper
152	100		
150	158.1	126.5	189.7
115	58.8	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

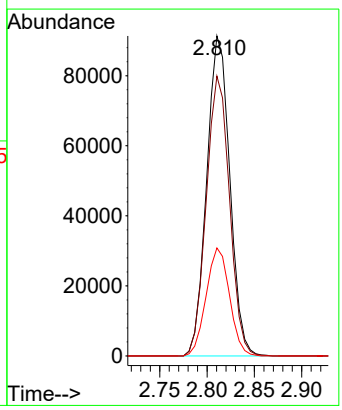
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

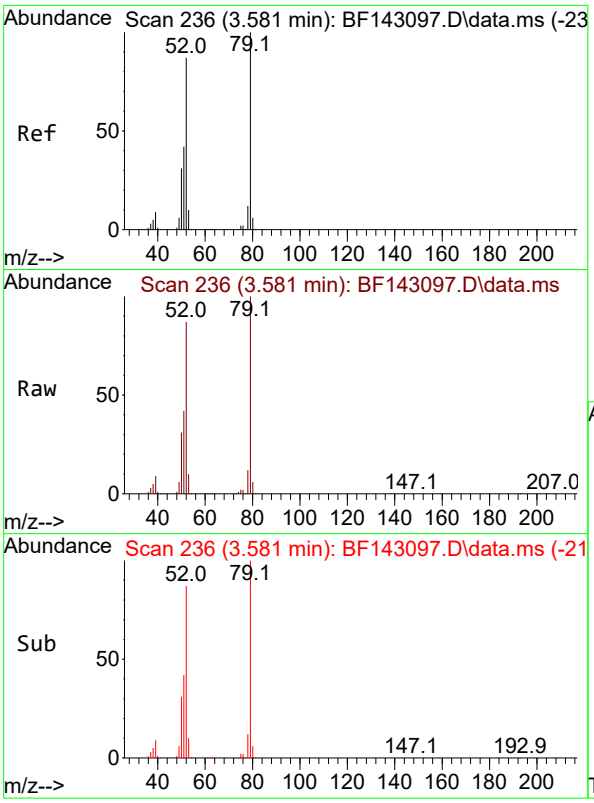


#2
1,4-Dioxane
Concen: 39.787 ng
RT: 2.810 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 88 Resp: 154739

Ion	Ratio	Lower	Upper
88	100		
58	88.1	70.5	105.7
43	34.1	27.3	40.9

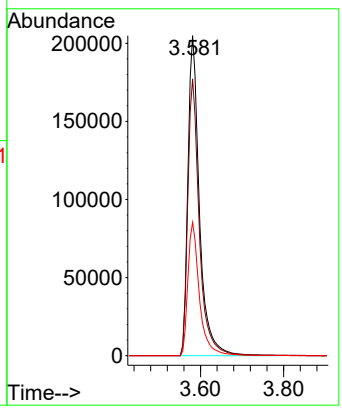




#3
Pyridine
Concen: 39.957 ng
RT: 3.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 79 Resp: 39351

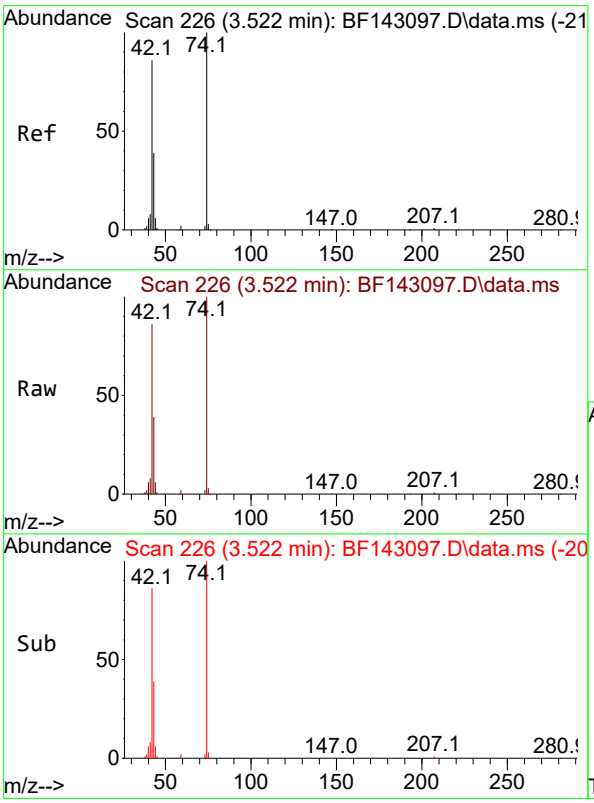
Ion	Ratio	Lower	Upper
79	100		
52	86.5	69.2	103.8
51	41.6	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

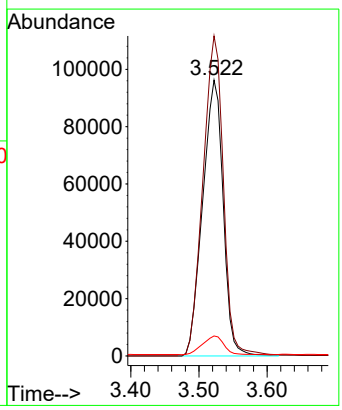
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

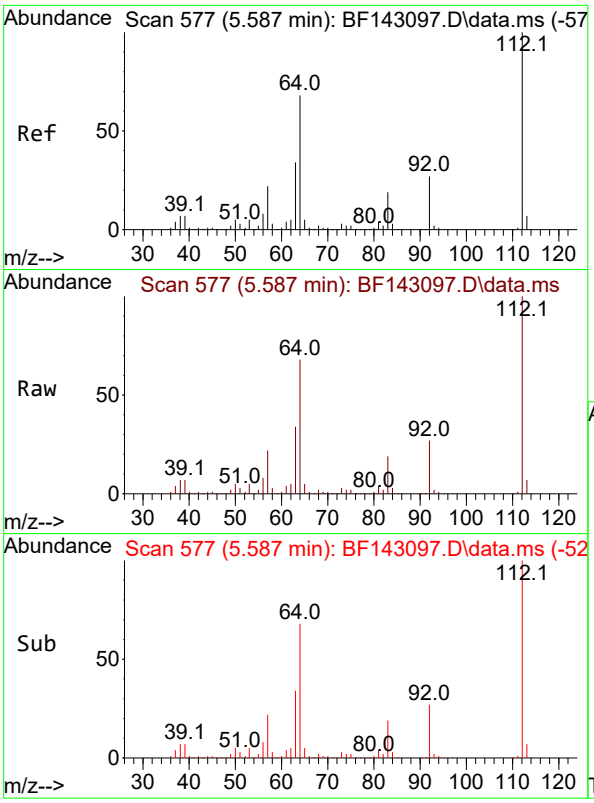


#4
n-Nitrosodimethylamine
Concen: 39.500 ng
RT: 3.522 min Scan# 226
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 42 Resp: 201552

Ion	Ratio	Lower	Upper
42	100		
74	116.0	92.8	139.2
44	7.2	5.8	8.6





#5
2-Fluorophenol
Concen: 79.335 ng
RT: 5.587 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

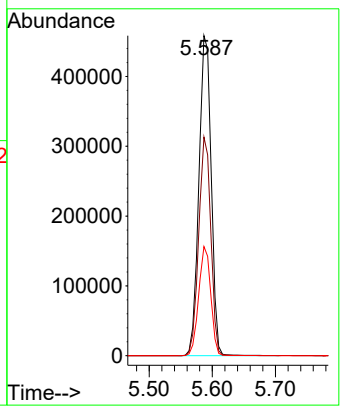
Tgt Ion:112 Resp: 61984

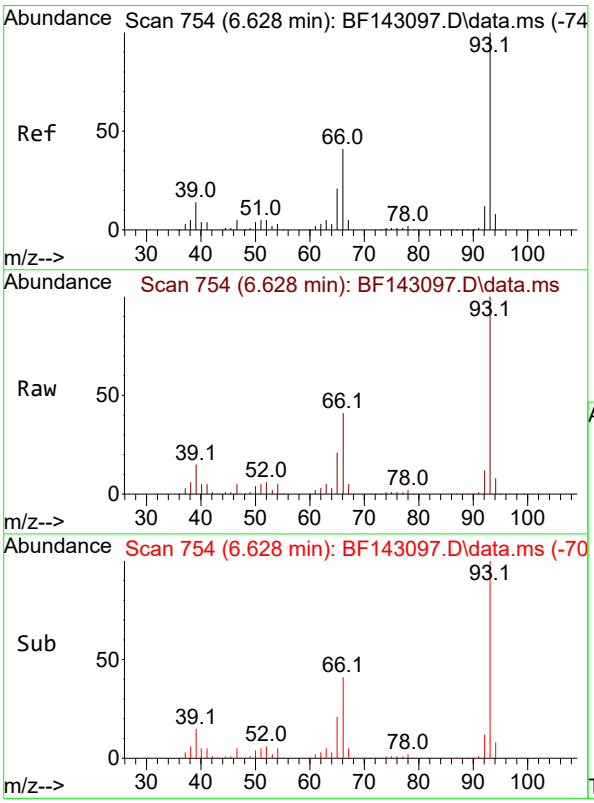
Ion	Ratio	Lower	Upper
112	100		
64	68.3	54.6	82.0
63	34.1	27.3	40.9

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

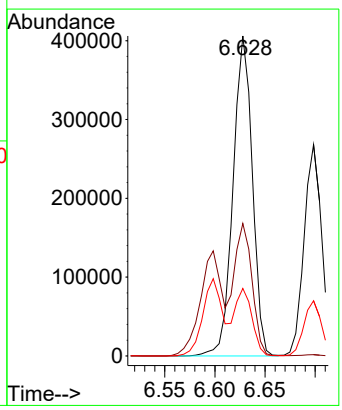


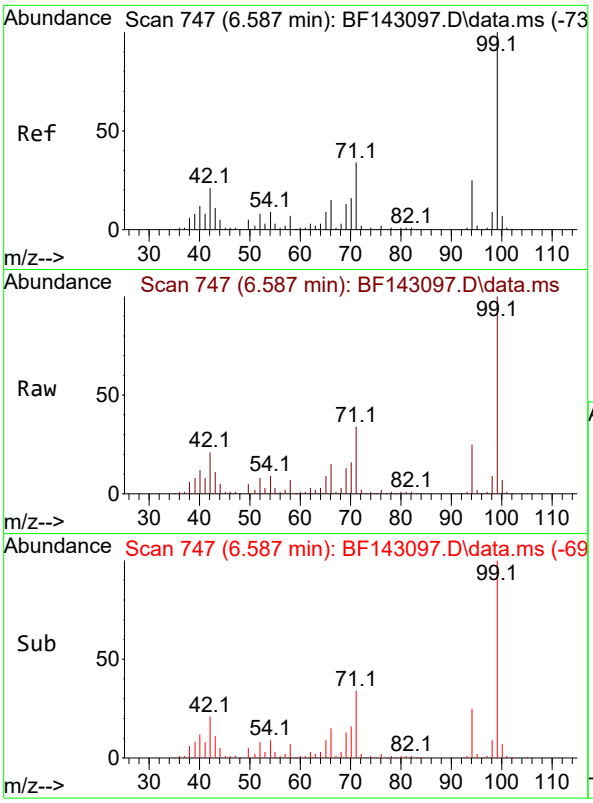


#6
Aniline
Concen: 39.365 ng
RT: 6.628 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 93 Resp: 544405

Ion	Ratio	Lower	Upper
93	100		
66	41.4	33.1	49.7
65	21.1	16.9	25.3





#7
Phenol-d6
Concen: 78.673 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

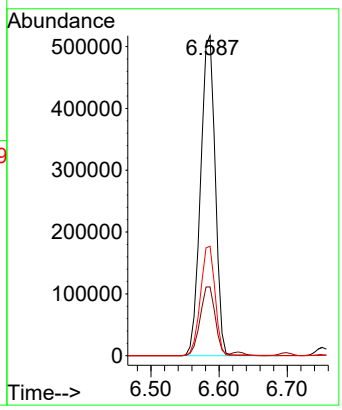
Tgt Ion: 99 Resp: 77264

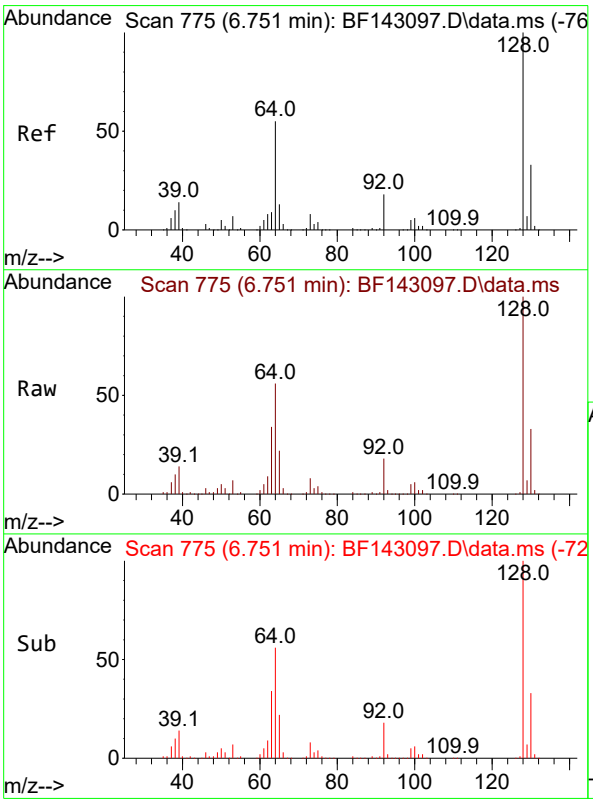
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.2	25.8
71	34.2	27.4	41.0

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

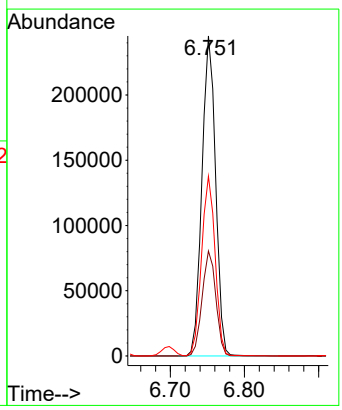


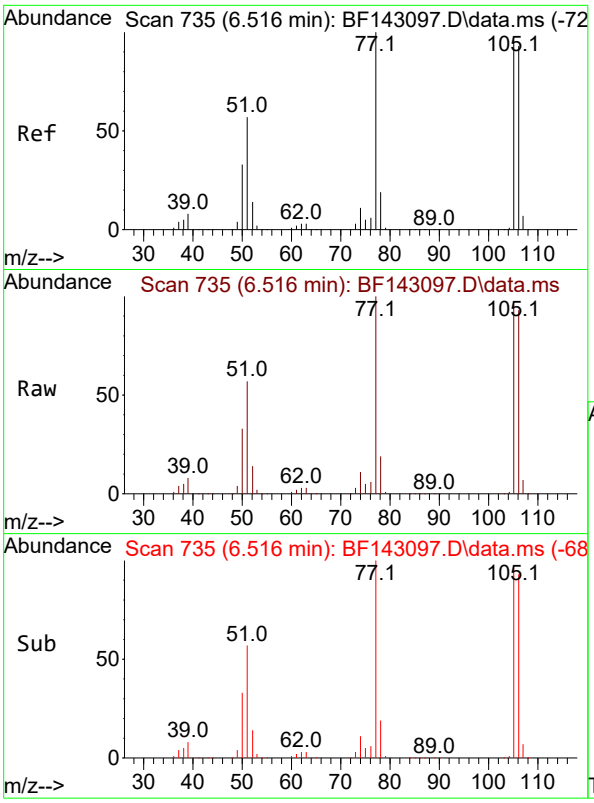


#8
2-Chlorophenol
Concen: 40.025 ng
RT: 6.751 min Scan# 775
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:128 Resp: 314192

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.8	52.8
64	56.1	36.1	76.1

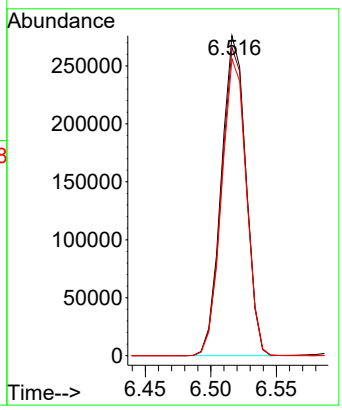




#9
Benzaldehyde
Concen: 47.869 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 77 Resp: 35821

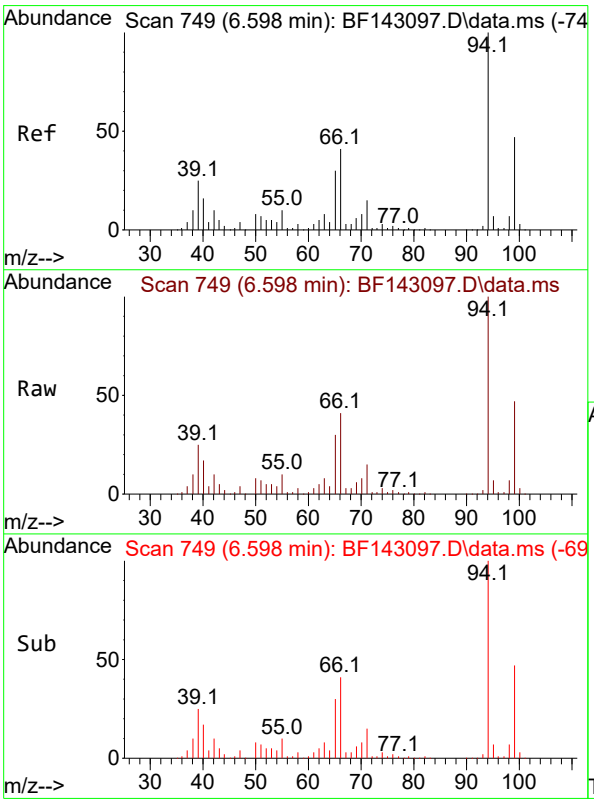
Ion	Ratio	Lower	Upper
77	100		
105	96.3	76.3	116.3
106	92.8	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

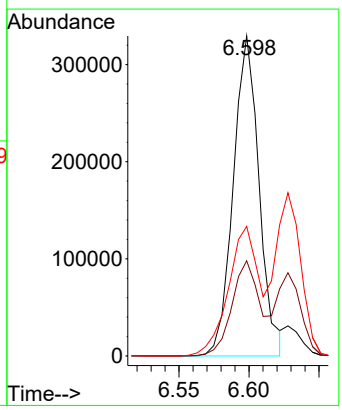
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

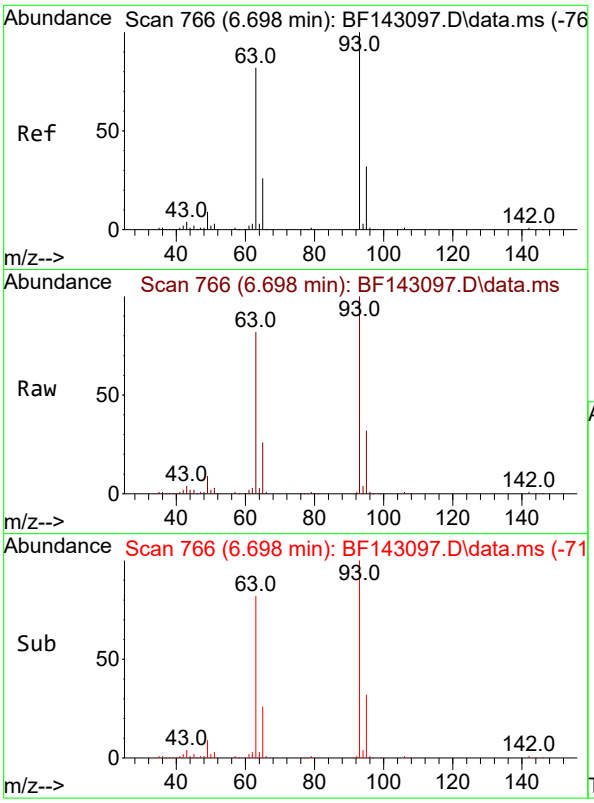


#10
Phenol
Concen: 39.676 ng m
RT: 6.598 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 94 Resp: 421819

Ion	Ratio	Lower	Upper
94	100		
65	29.8	9.8	49.8
66	40.5	20.5	60.5

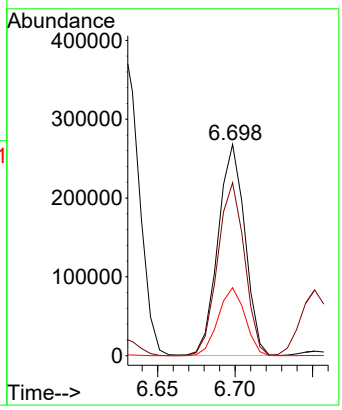




#11
bis(2-Chloroethyl)ether
Concen: 39.260 ng
RT: 6.698 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 93 Resp: 32312

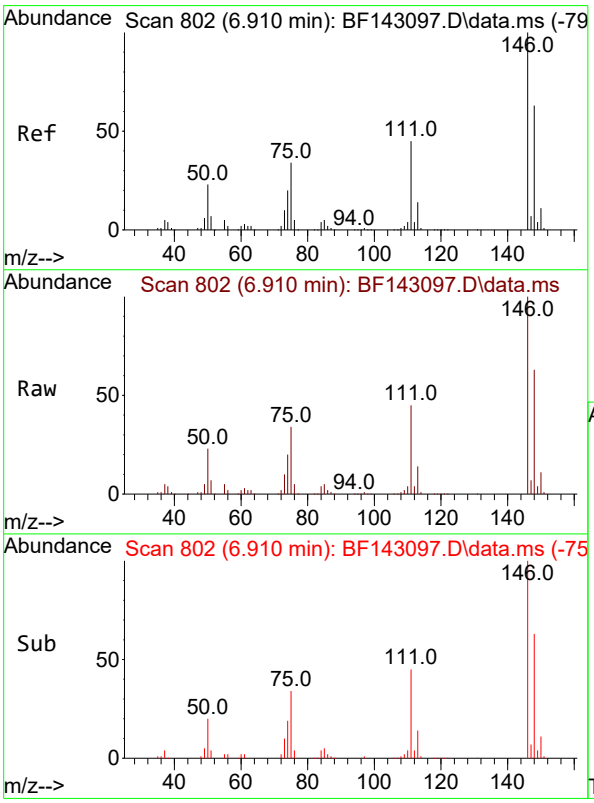
Ion	Ratio	Lower	Upper
93	100		
63	81.9	61.9	101.9
95	32.2	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

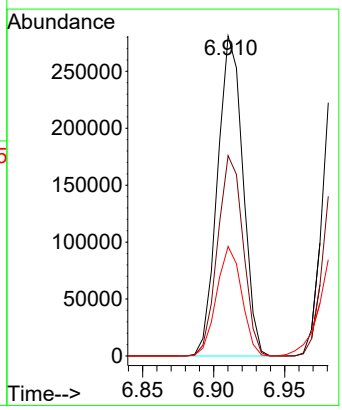
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

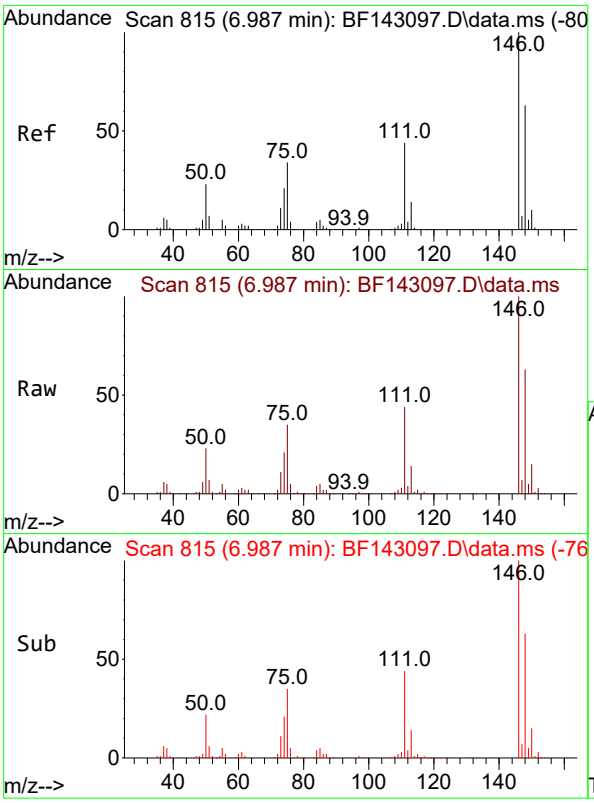


#12
1,3-Dichlorobenzene
Concen: 39.371 ng
RT: 6.910 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:146 Resp: 349154

Ion	Ratio	Lower	Upper
146	100		
148	62.6	50.1	75.1
75	34.2	27.4	41.0

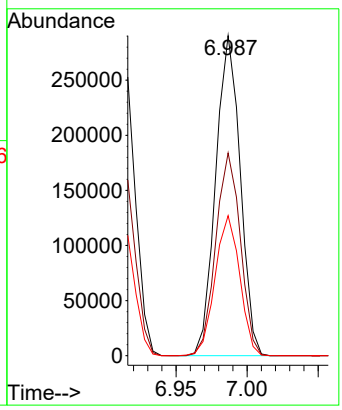




#13
1,4-Dichlorobenzene
Concen: 39.084 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:146 Resp: 34870

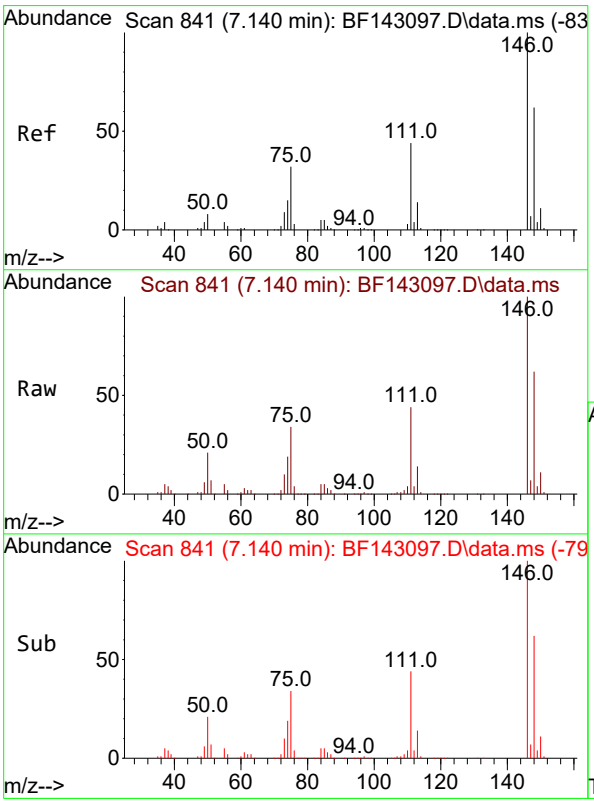
Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0
111	43.8	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

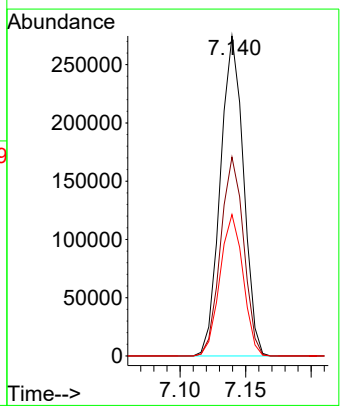
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

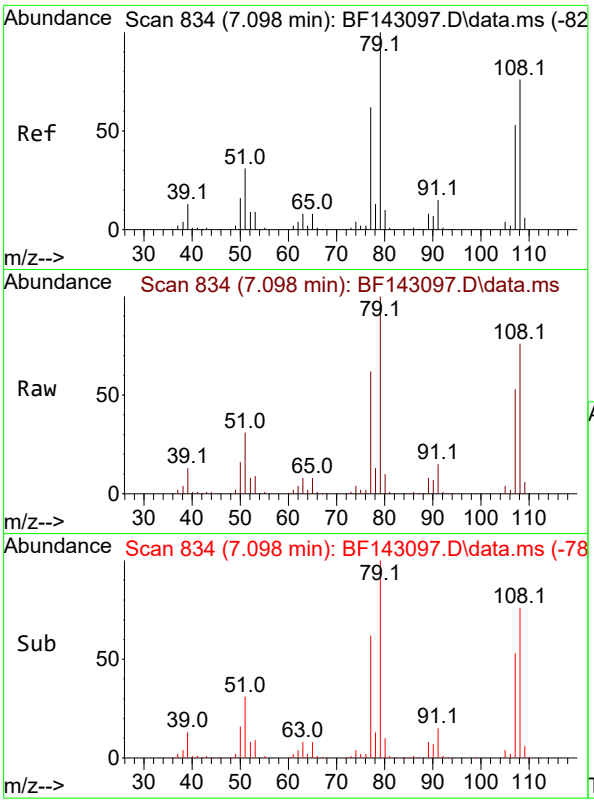


#14
1,2-Dichlorobenzene
Concen: 39.587 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:146 Resp: 336818

Ion	Ratio	Lower	Upper
146	100		
148	62.2	49.8	74.6
111	44.2	35.4	53.0

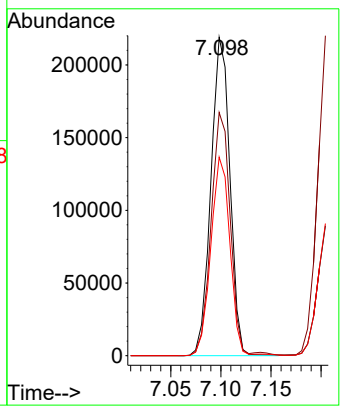




#15
Benzyl Alcohol
Concen: 39.585 ng
RT: 7.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 79 Resp: 28805

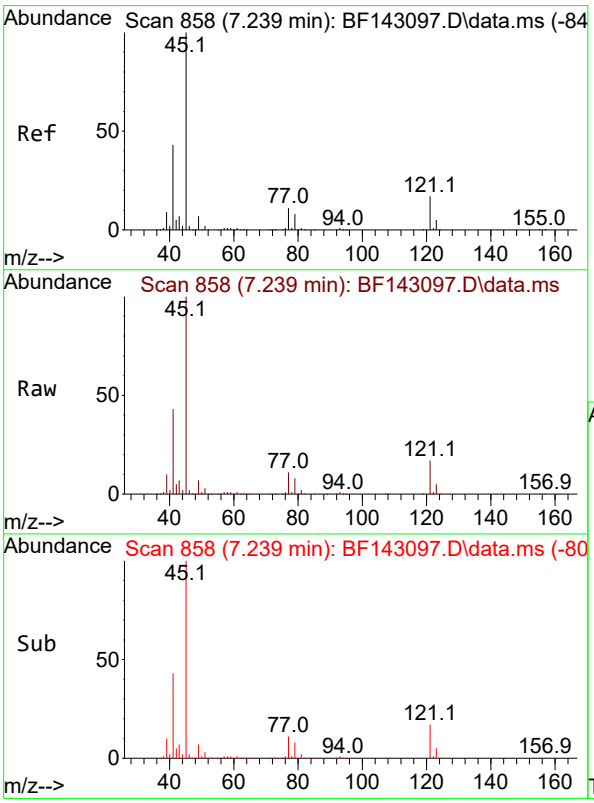
Ion	Ratio	Lower	Upper
79	100		
108	76.4	61.1	91.7
77	62.4	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

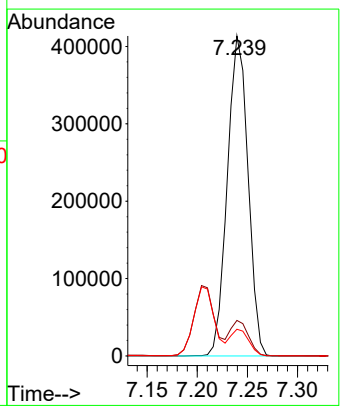
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

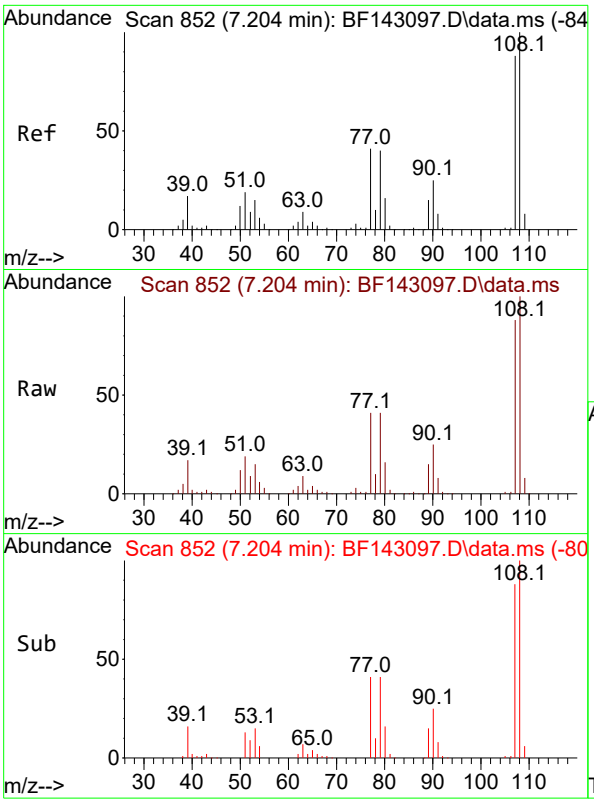


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.134 ng
RT: 7.239 min Scan# 858
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 45 Resp: 593735

Ion	Ratio	Lower	Upper
45	100		
77	11.1	0.0	31.1
79	8.4	0.0	28.4

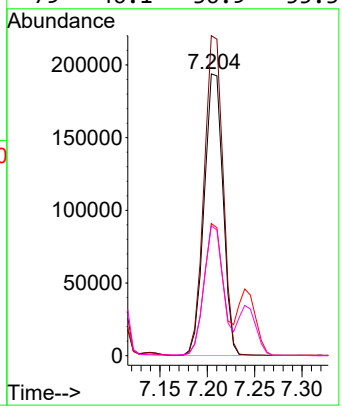




#17
2-Methylphenol
Concen: 39.484 ng
RT: 7.204 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:107 Resp: 26747

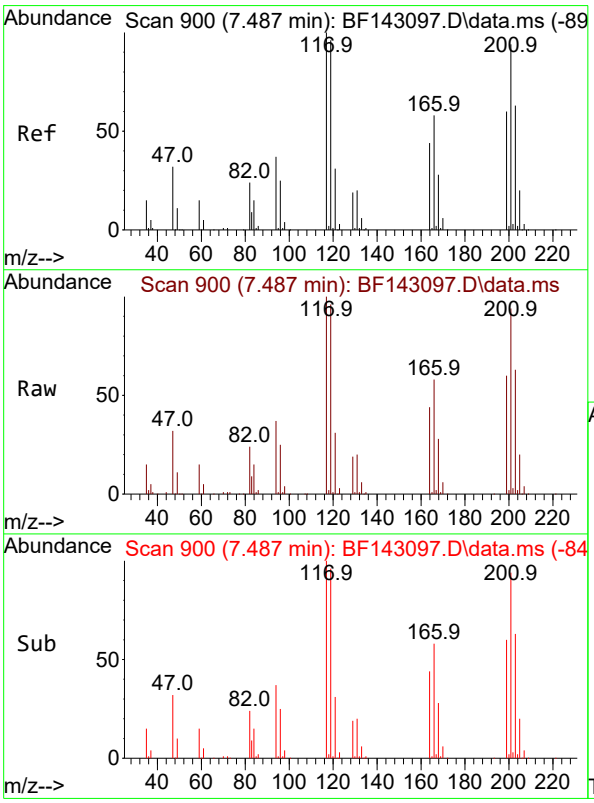
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.9	136.3
77	46.9	37.5	56.3
79	46.1	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

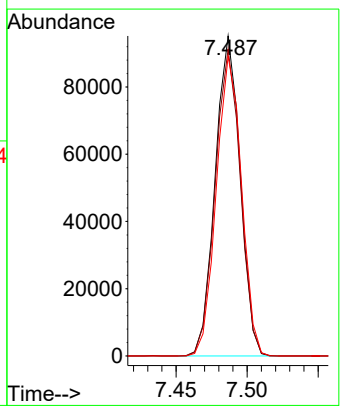
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

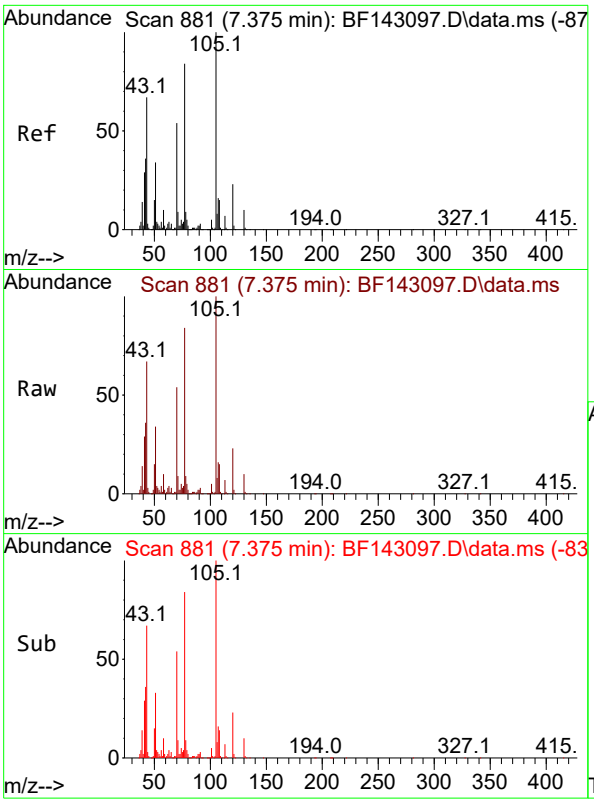


#18
Hexachloroethane
Concen: 40.159 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:117 Resp: 116640

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.7	115.1
201	93.7	75.0	112.4

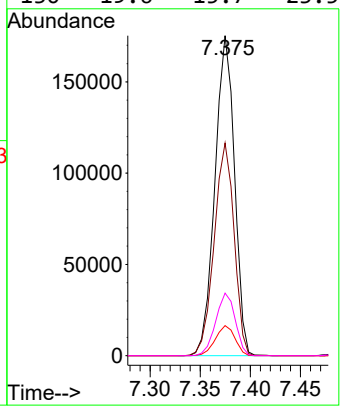




#19
n-Nitroso-di-n-propylamine
Concen: 39.549 ng
RT: 7.375 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

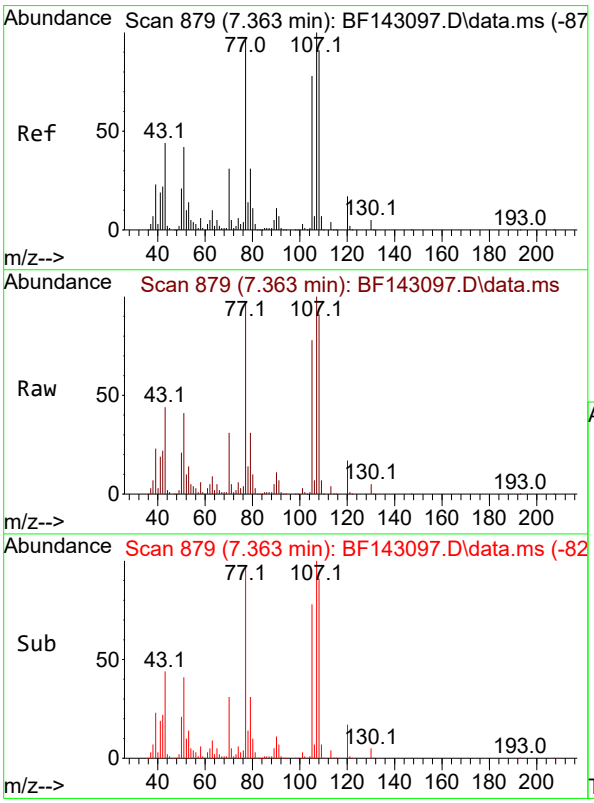
Tgt Ion: 70 Resp: 23795

Ion	Ratio	Lower	Upper
70	100		
42	66.5	53.2	79.8
101	9.4	7.5	11.3
130	19.6	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

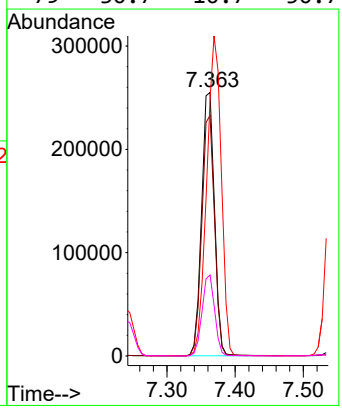
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

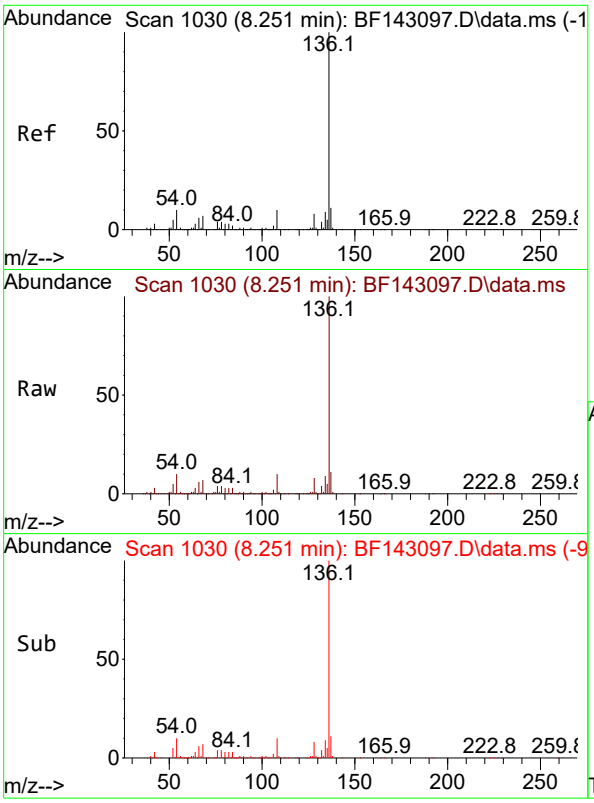


#20
3+4-Methylphenols
Concen: 40.291 ng
RT: 7.363 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:107 Resp: 334719

Ion	Ratio	Lower	Upper
107	100		
108	91.3	71.3	111.3
77	97.2	77.2	117.2
79	30.7	10.7	50.7

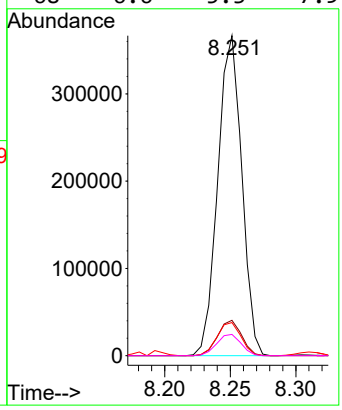




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:136 Resp: 46642

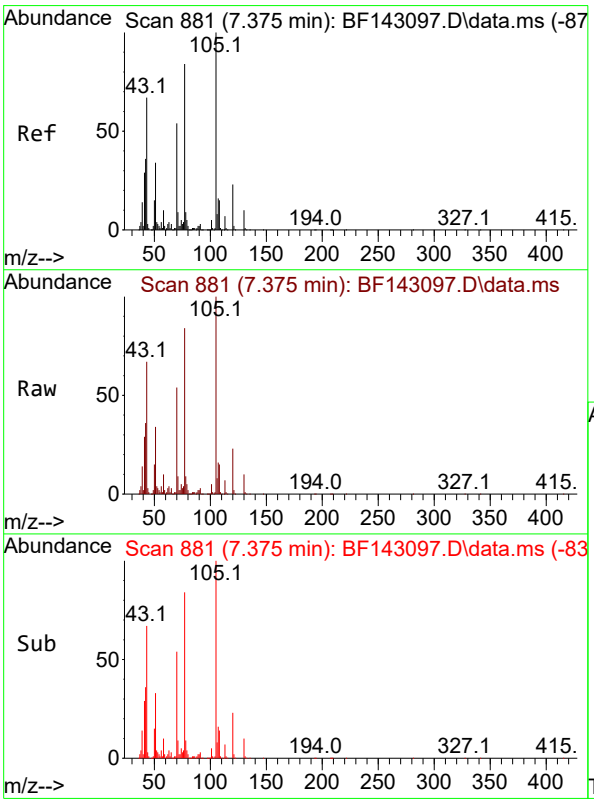
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	10.4	8.3	12.5
68	6.6	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

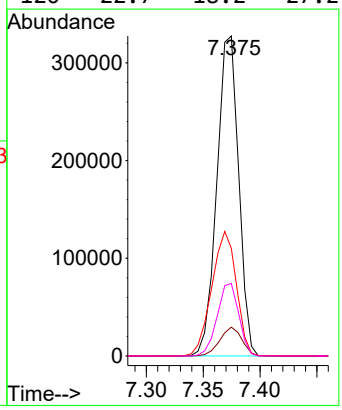
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

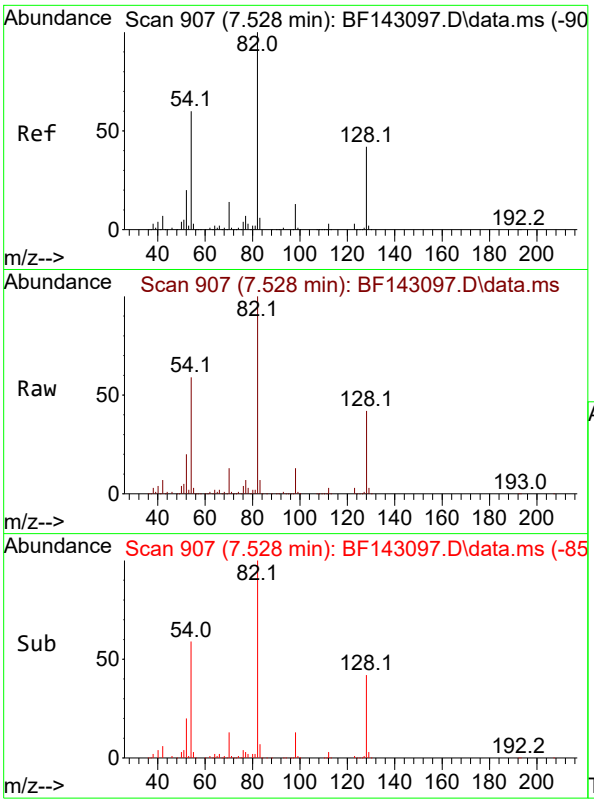


#22
Acetophenone
Concen: 38.906 ng
RT: 7.375 min Scan# 881
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:105 Resp: 437447

Ion	Ratio	Lower	Upper
105	100		
71	9.0	7.2	10.8
51	33.7	27.0	40.4
120	22.7	18.2	27.2





#23
Nitrobenzene-d5
Concen: 83.526 ng m
RT: 7.528 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

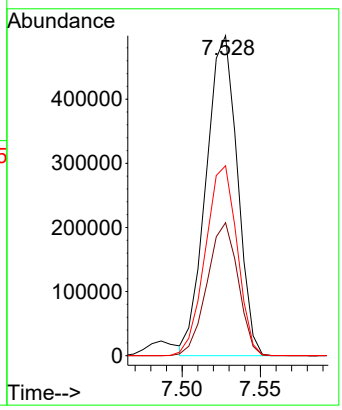
Tgt Ion: 82 Resp: 69449

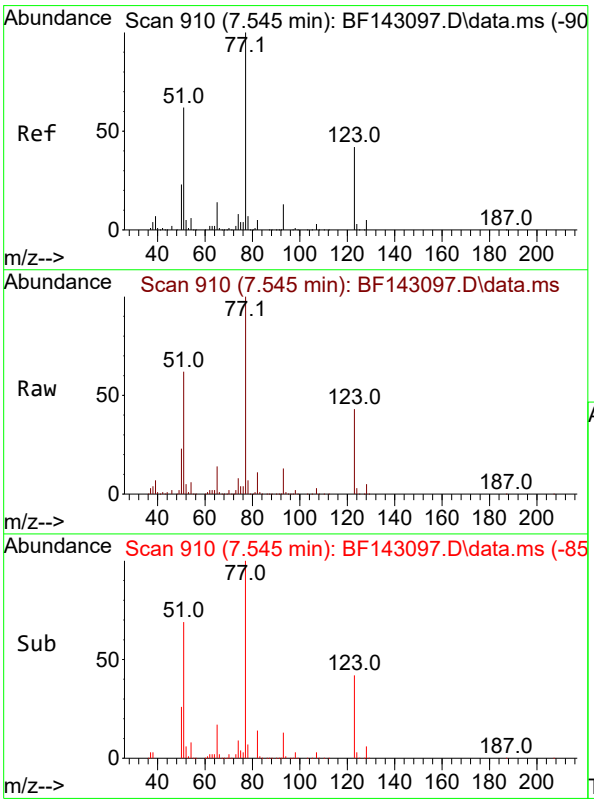
Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.3	49.9
54	59.3	47.4	71.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

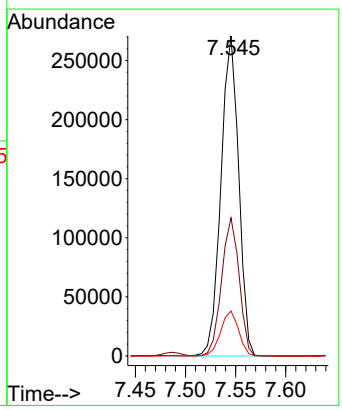


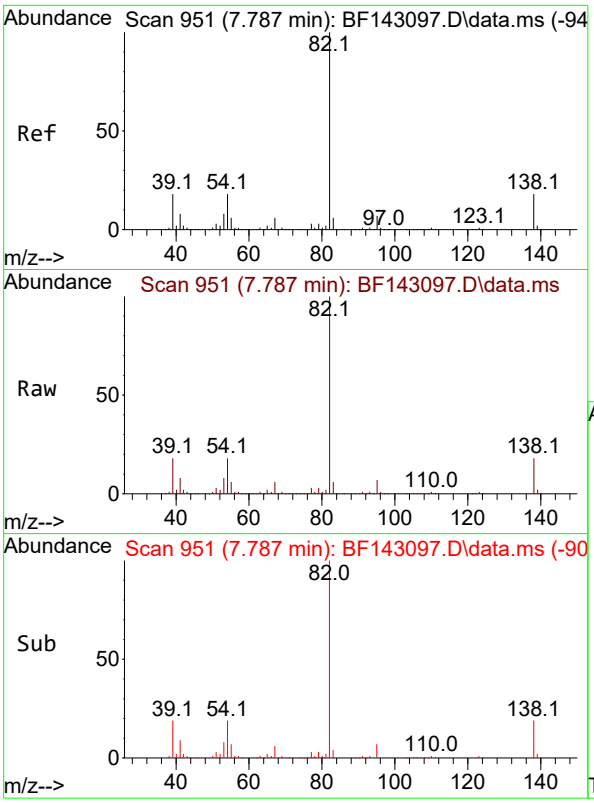


#24
Nitrobenzene
Concen: 41.364 ng
RT: 7.545 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 77 Resp: 332013

Ion	Ratio	Lower	Upper
77	100		
123	43.1	34.5	51.7
65	14.1	11.3	16.9





#25
Isophorone
Concen: 39.346 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

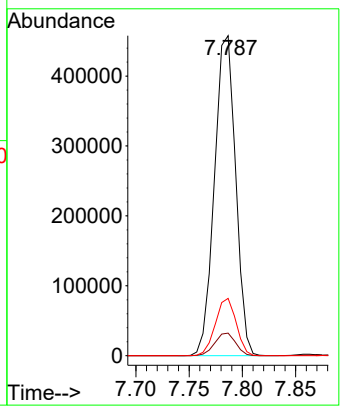
Tgt Ion: 82 Resp: 63232

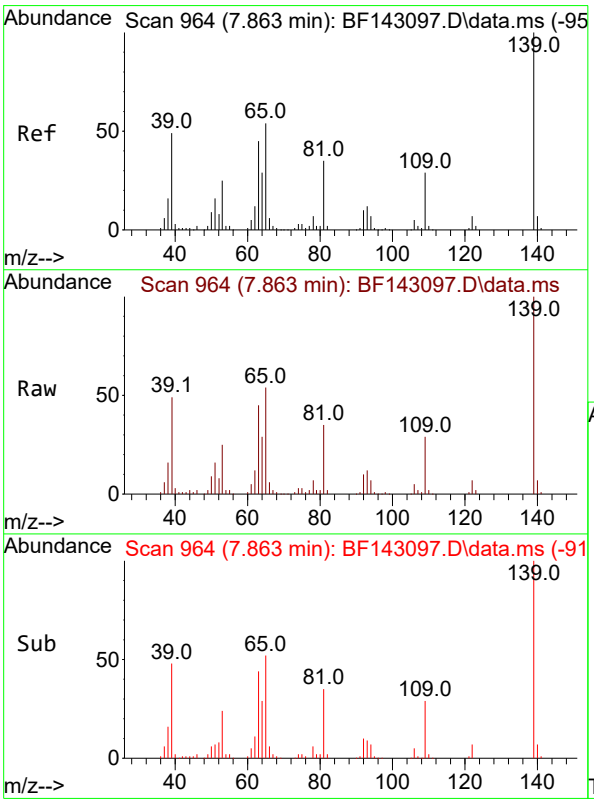
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	17.9	14.3	21.5

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

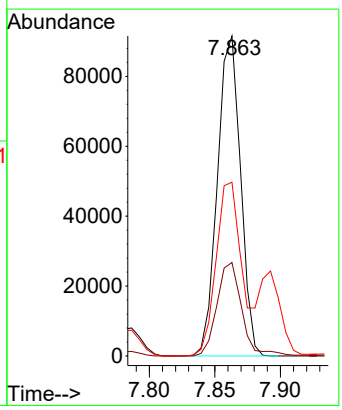


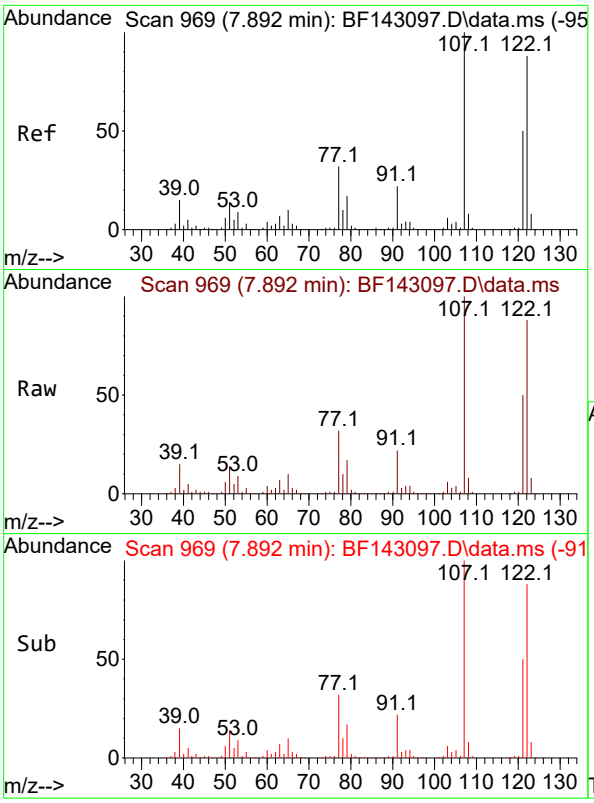


#26
2-Nitrophenol
Concen: 36.079 ng
RT: 7.863 min Scan# 964
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:139 Resp: 112314

Ion	Ratio	Lower	Upper
139	100		
109	29.2	23.4	35.0
65	54.3	43.4	65.2

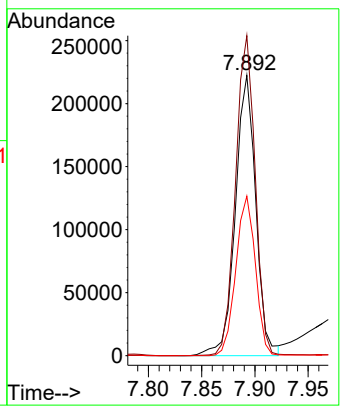




#27
2,4-Dimethylphenol
Concen: 39.984 ng
RT: 7.892 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:122 Resp: 29824

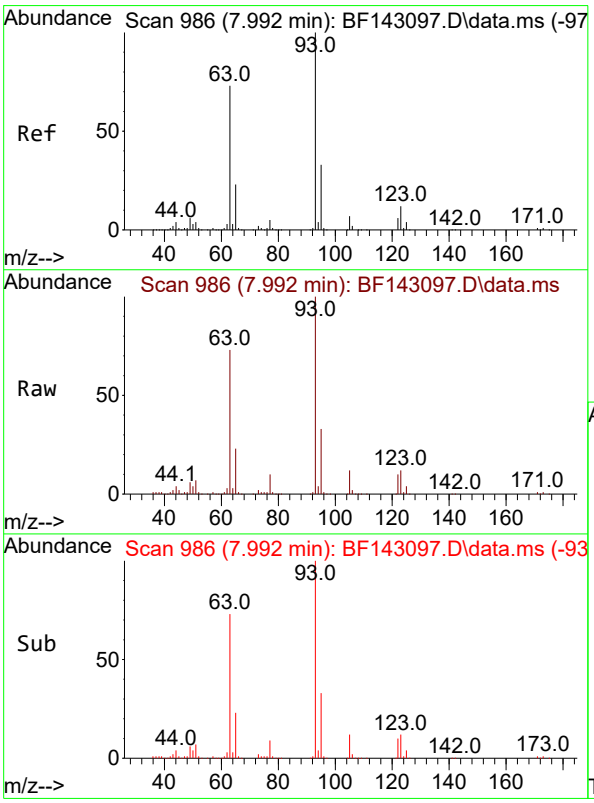
Ion	Ratio	Lower	Upper
122	100		
107	114.1	91.3	136.9
121	56.9	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

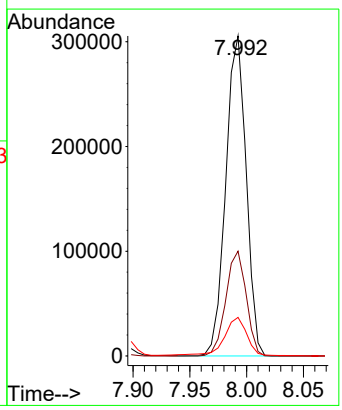
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

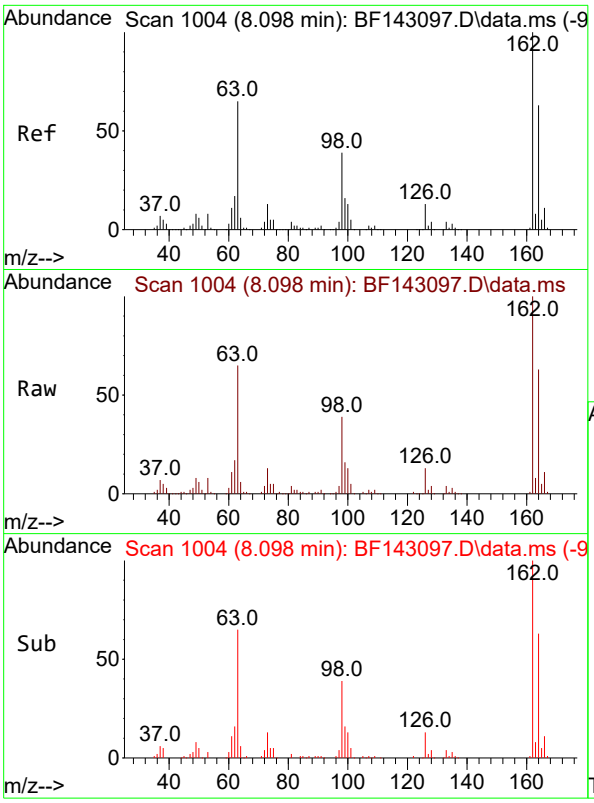


#28
bis(2-Chloroethoxy)methane
Concen: 39.155 ng
RT: 7.992 min Scan# 986
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 93 Resp: 381576

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.4
123	12.0	9.6	14.4





#29
2,4-Dichlorophenol
Concen: 40.752 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

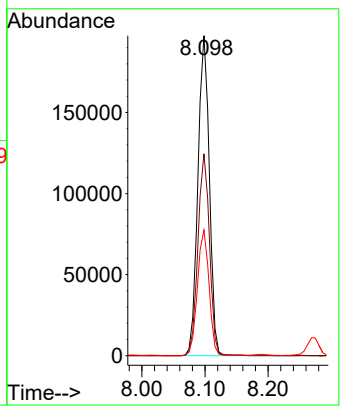
Tgt Ion:162 Resp: 24867

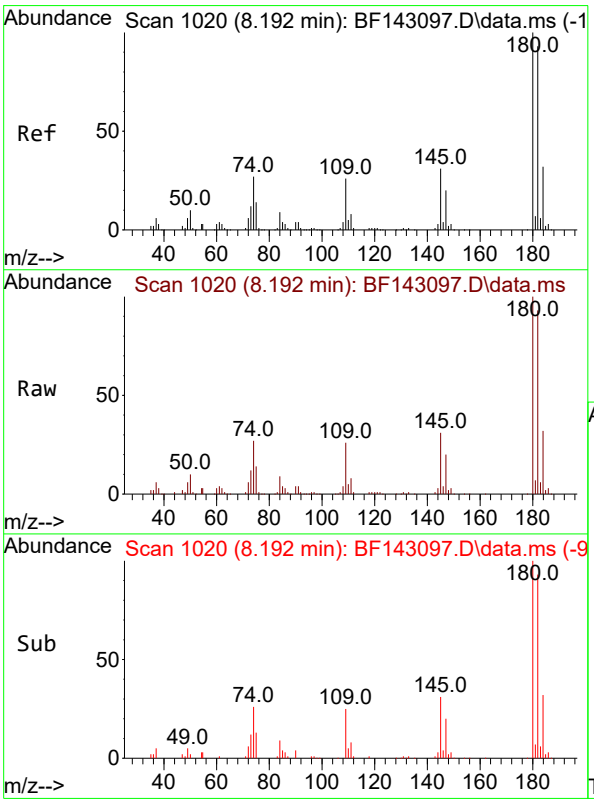
Ion	Ratio	Lower	Upper
162	100		
164	63.1	43.1	83.1
98	39.2	19.2	59.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

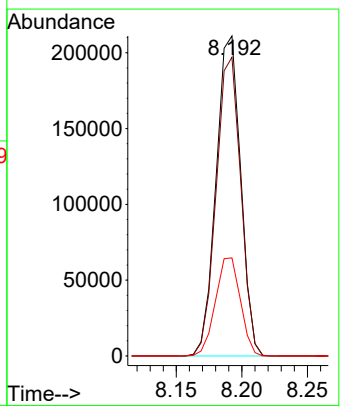


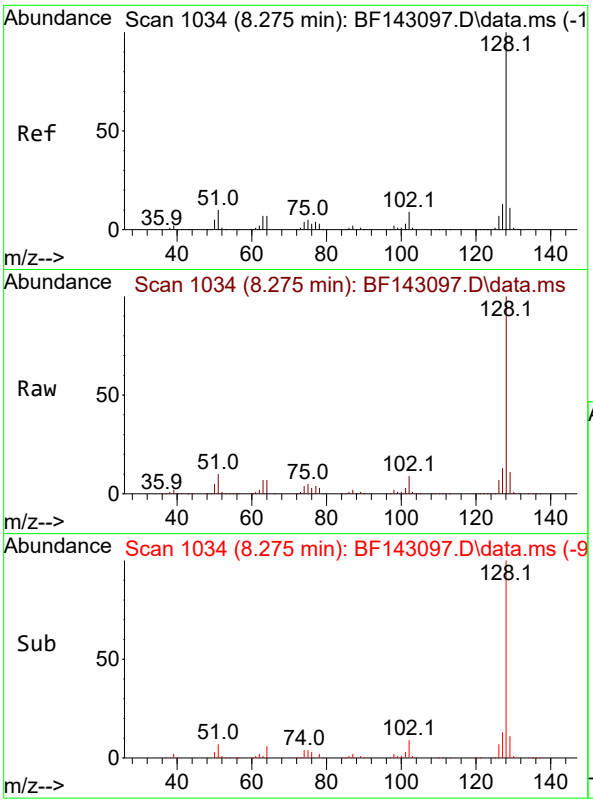


#30
1,2,4-Trichlorobenzene
Concen: 39.701 ng
RT: 8.192 min Scan# 1020
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:180 Resp: 274944

Ion	Ratio	Lower	Upper
180	100		
182	93.4	74.7	112.1
145	30.6	24.5	36.7

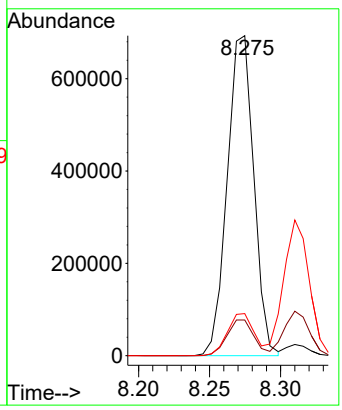




#31
Naphthalene
Concen: 38.898 ng
RT: 8.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:128 Resp: 90096

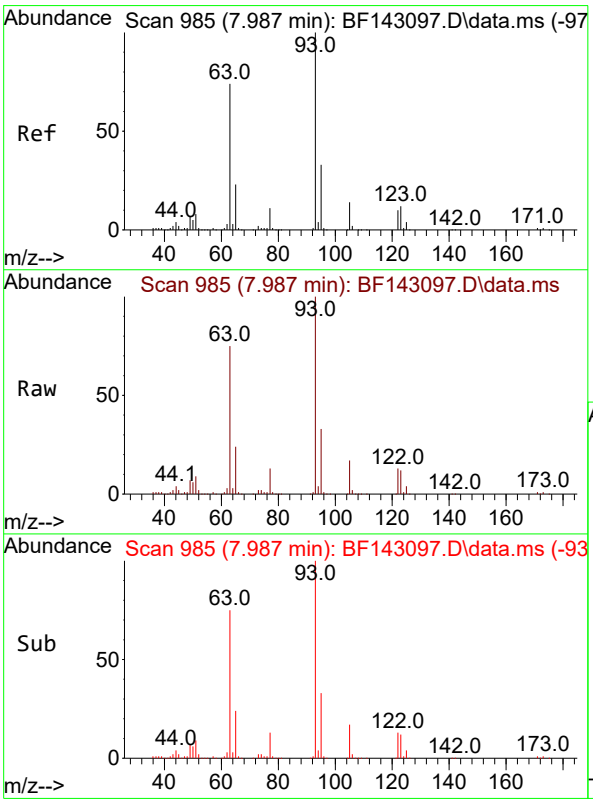
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.1	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

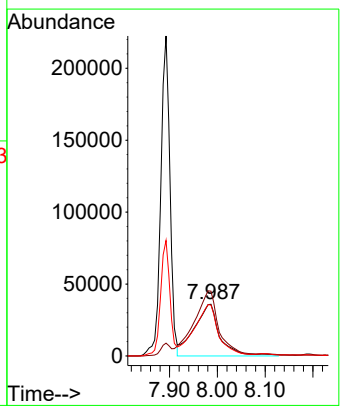
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

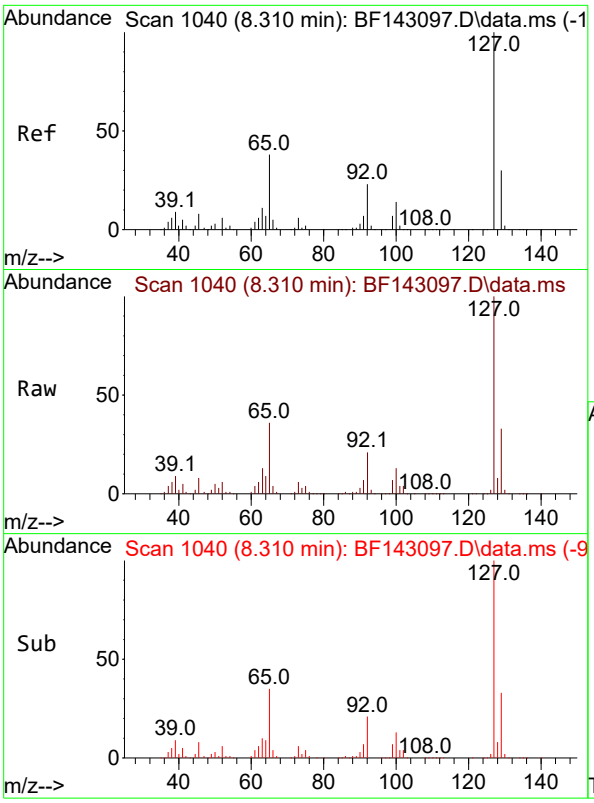


#32
Benzoic acid
Concen: 37.684 ng m
RT: 7.987 min Scan# 985
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:122 Resp: 133968

Ion	Ratio	Lower	Upper
122	100		
105	125.4	105.4	145.4
77	98.6	78.6	118.6

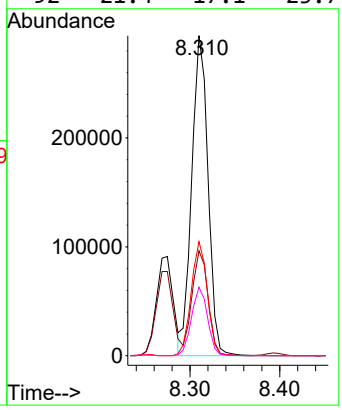




#33
4-Chloroaniline
Concen: 39.858 ng
RT: 8.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:127 Resp: 37124

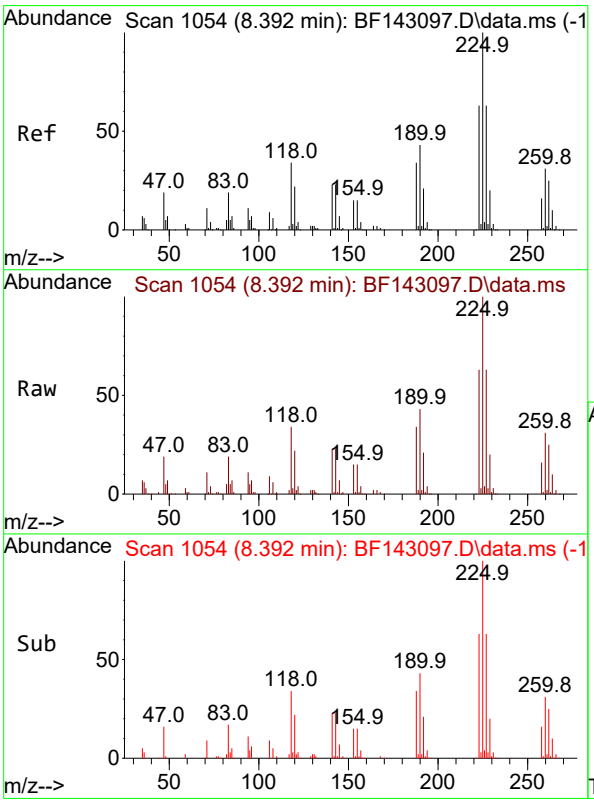
Ion	Ratio	Lower	Upper
127	100		
129	32.8	26.2	39.4
65	35.7	28.6	42.8
92	21.4	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

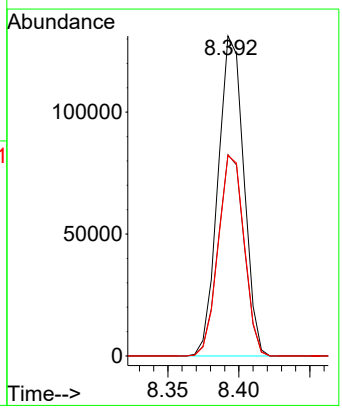
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

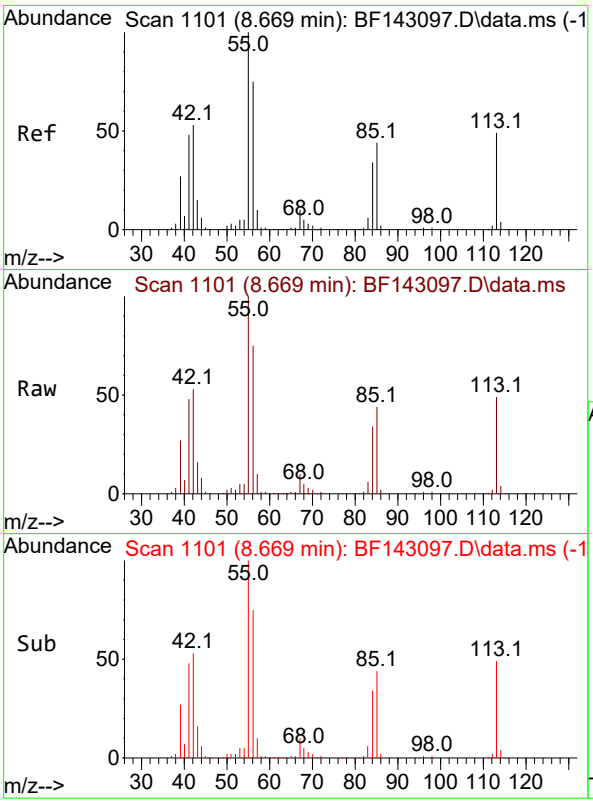


#34
Hexachlorobutadiene
Concen: 39.978 ng
RT: 8.392 min Scan# 1054
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:225 Resp: 165576

Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.3	75.5
227	62.6	50.1	75.1





#35
Caprolactam
Concen: 40.657 ng
RT: 8.669 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

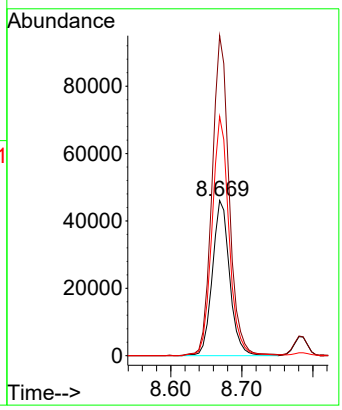
Tgt Ion:113 Resp: 7747

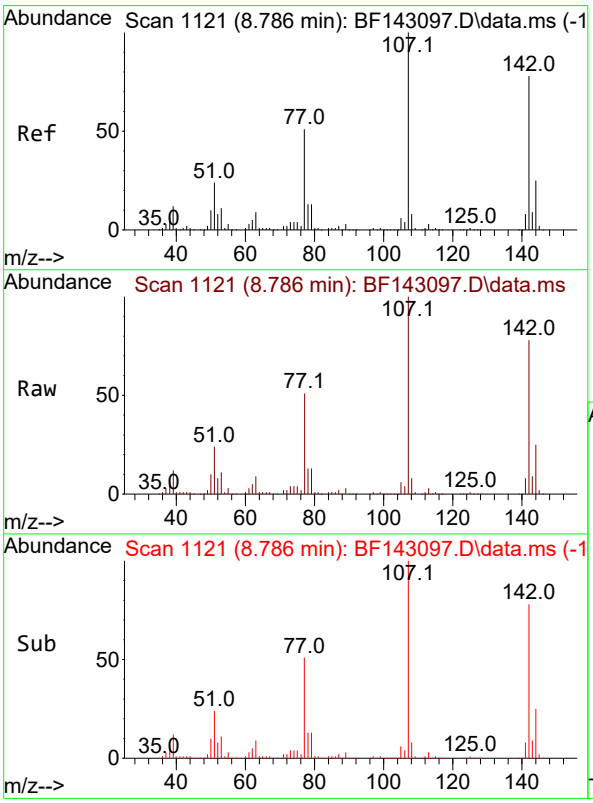
Ion	Ratio	Lower	Upper
113	100		
55	206.2	186.2	226.2
56	154.1	134.1	174.1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

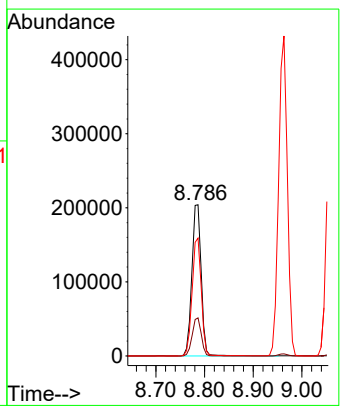


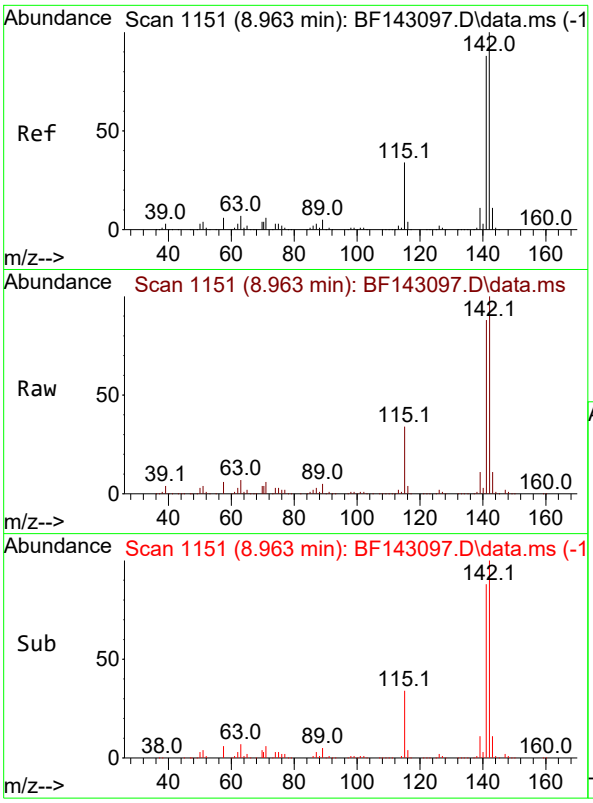


#36
4-Chloro-3-methylphenol
Concen: 40.145 ng
RT: 8.786 min Scan# 1121
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:107 Resp: 272885

Ion	Ratio	Lower	Upper
107	100		
144	25.2	20.2	30.2
142	78.0	62.4	93.6





#37
2-Methylnaphthalene
Concen: 39.141 ng
RT: 8.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

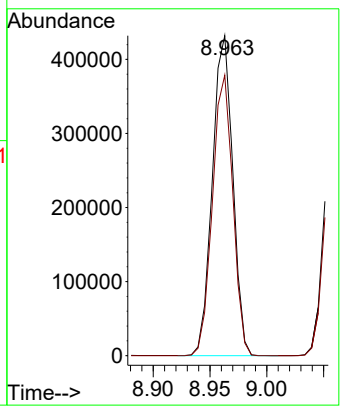
Tgt Ion:142 Resp: 54084

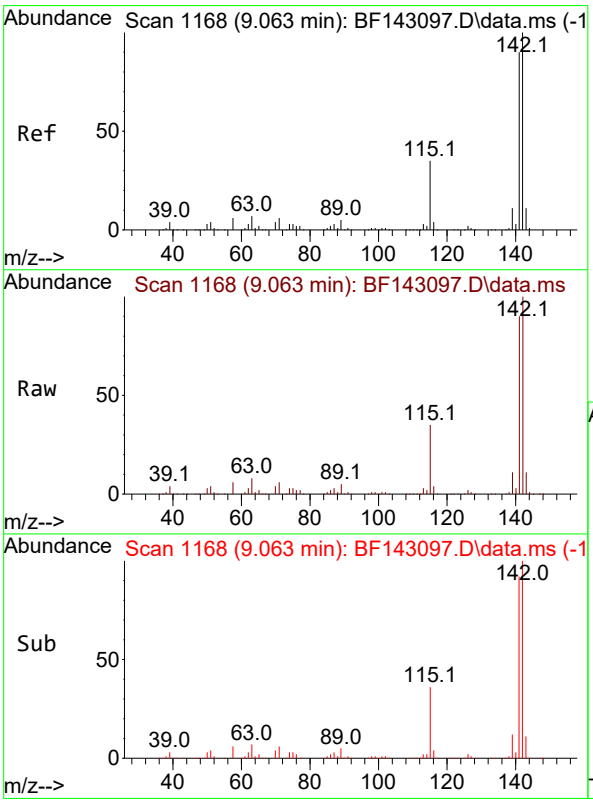
Ion	Ratio	Lower	Upper
142	100		
141	87.7	70.2	105.2

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

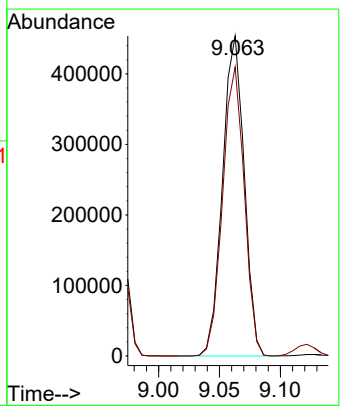


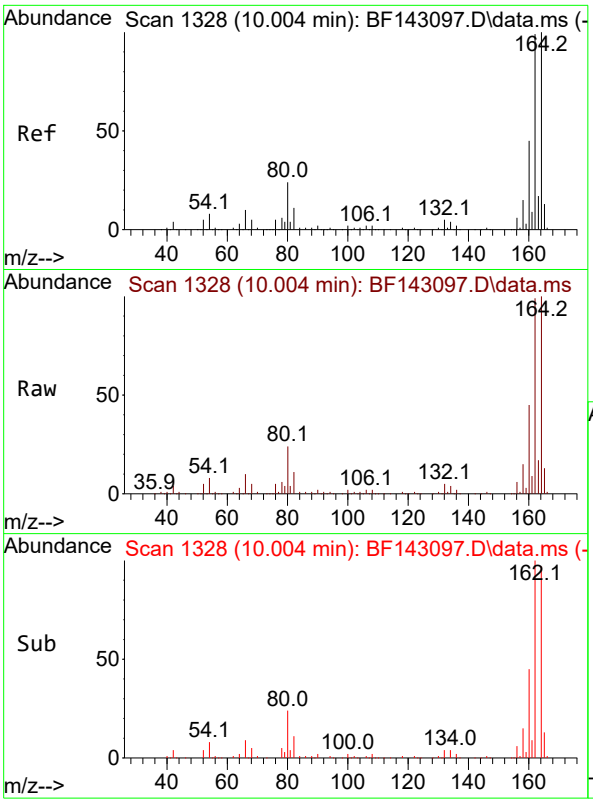


#38
1-Methylnaphthalene
Concen: 39.263 ng
RT: 9.063 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:142 Resp: 562696

Ion	Ratio	Lower	Upper
142	100		
141	90.3	72.2	108.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

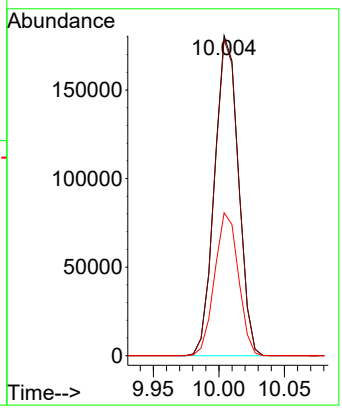
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

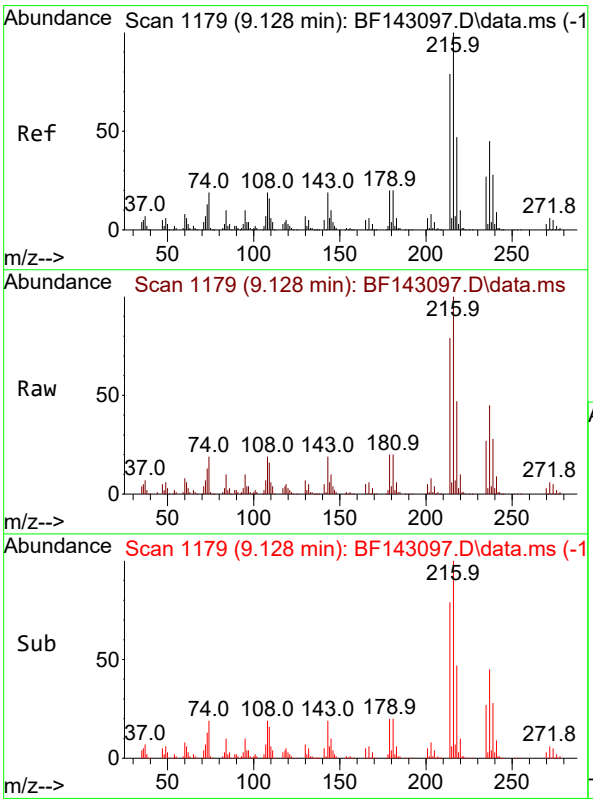
Tgt Ion:164 Resp: 22773

Ion	Ratio	Lower	Upper
164	100		
162	98.8	79.0	118.6
160	44.7	35.8	53.6

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

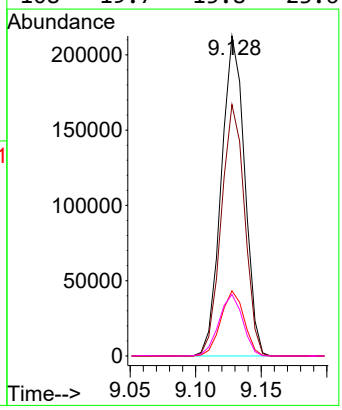


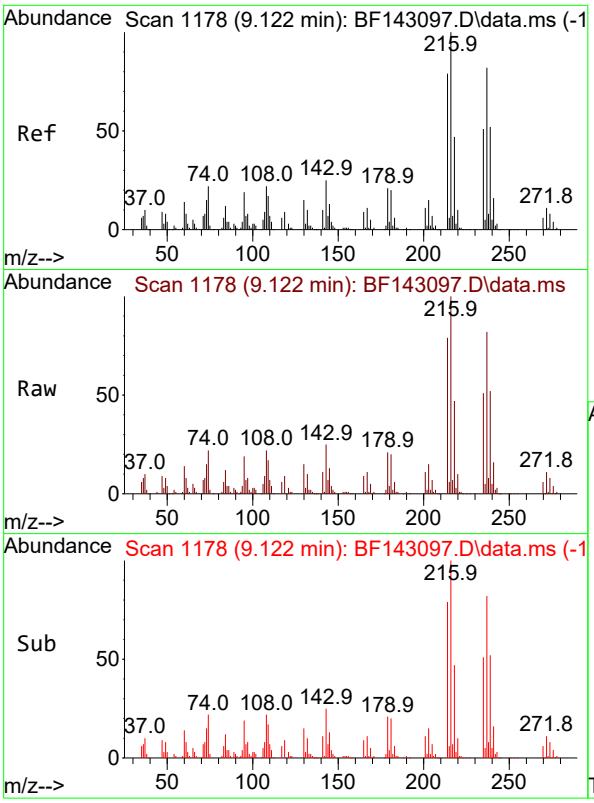


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.653 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:216 Resp: 263160

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.6	94.0
179	20.2	16.2	24.2
108	19.7	15.8	23.6

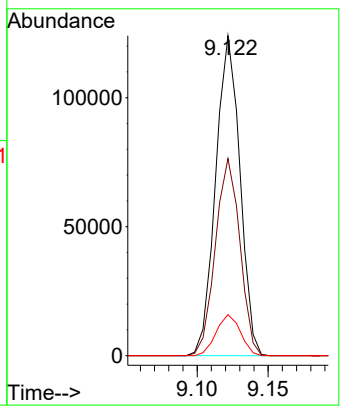




#41
Hexachlorocyclopentadiene
Concen: 40.011 ng
RT: 9.122 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:237 Resp: 14722

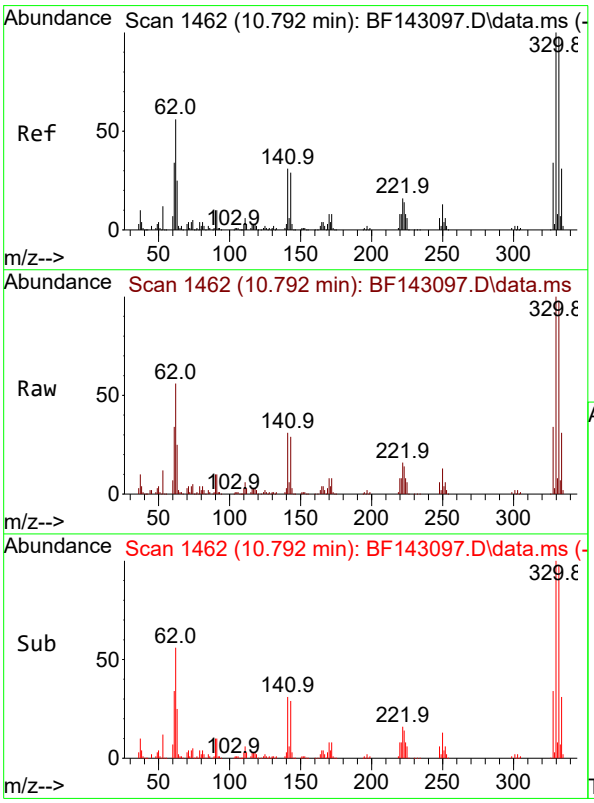
Ion	Ratio	Lower	Upper
237	100		
235	61.6	41.6	81.6
272	12.9	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

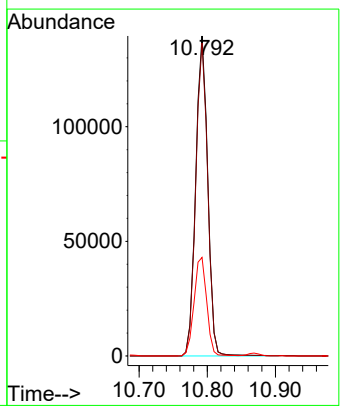
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

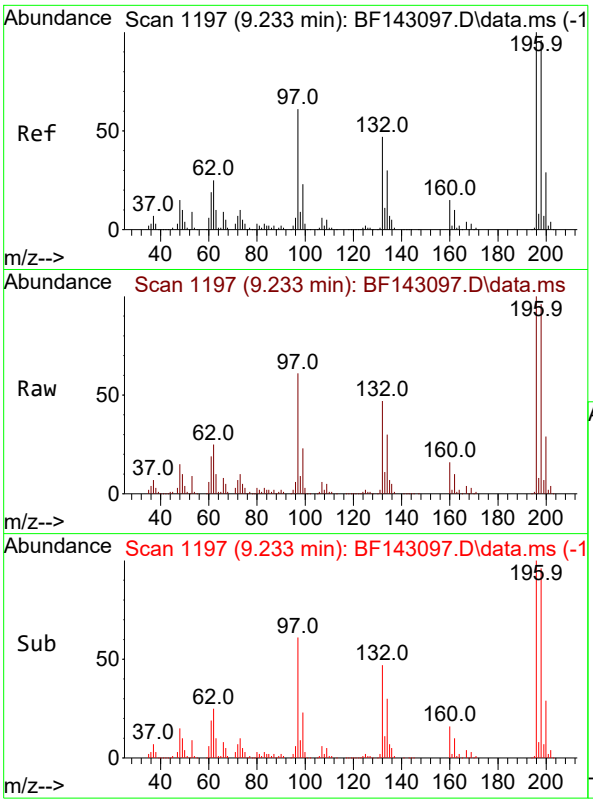


#42
2,4,6-Tribromophenol
Concen: 84.198 ng
RT: 10.792 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:330 Resp: 170969

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.9	116.9
141	32.4	25.9	38.9

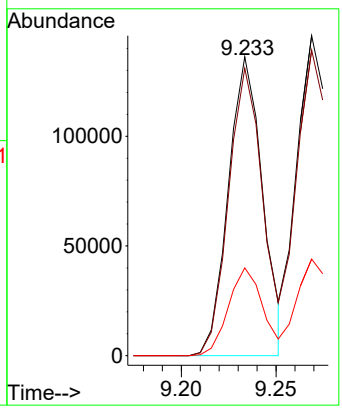




#43
2,4,6-Trichlorophenol
Concen: 41.569 ng
RT: 9.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:196 Resp: 17141

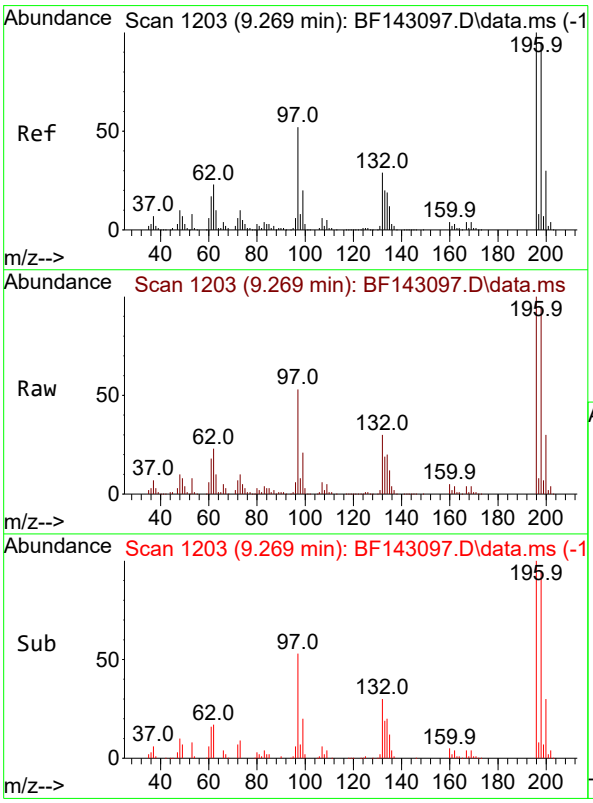
Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.9	115.3
200	29.4	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

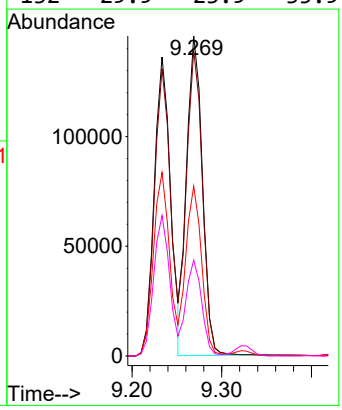
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

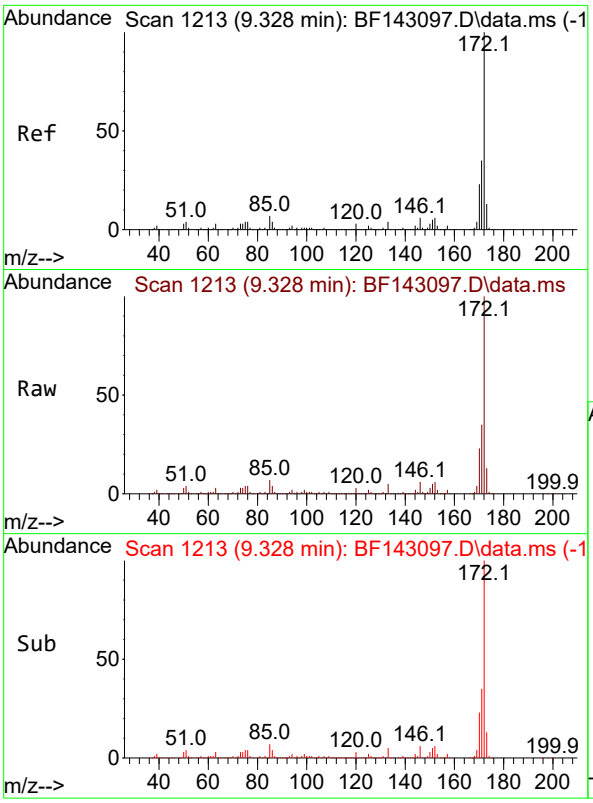


#44
2,4,5-Trichlorophenol
Concen: 41.422 ng
RT: 9.269 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:196 Resp: 179101

Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.4	114.6
97	53.0	42.4	63.6
132	29.9	23.9	35.9

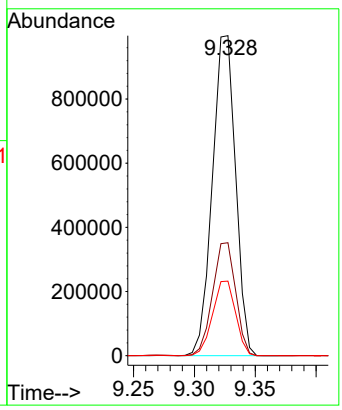




#45
2-Fluorobiphenyl
Concen: 77.428 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:172 Resp: 132648

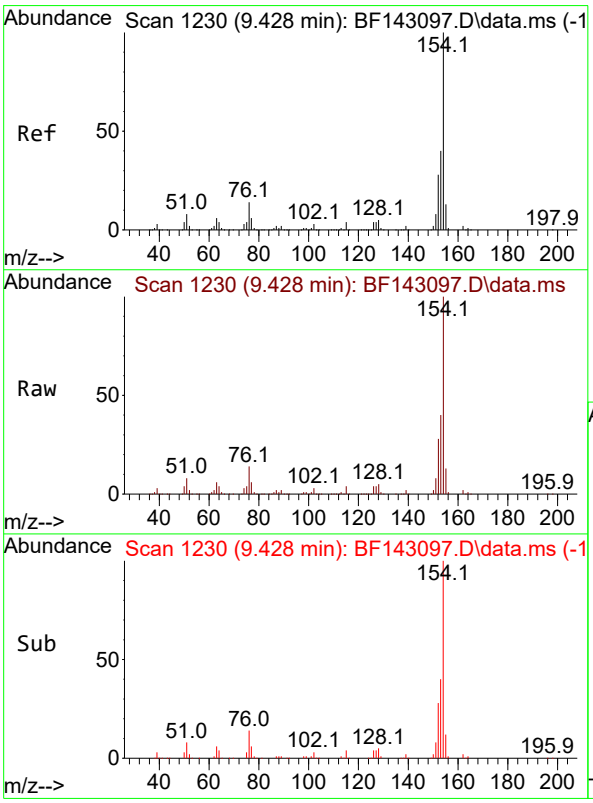
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.3	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

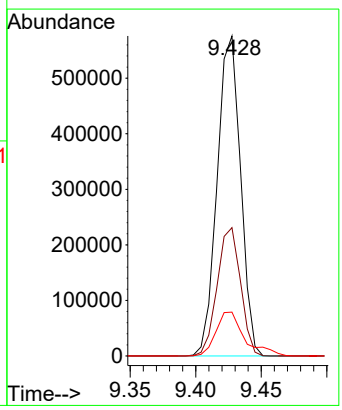
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

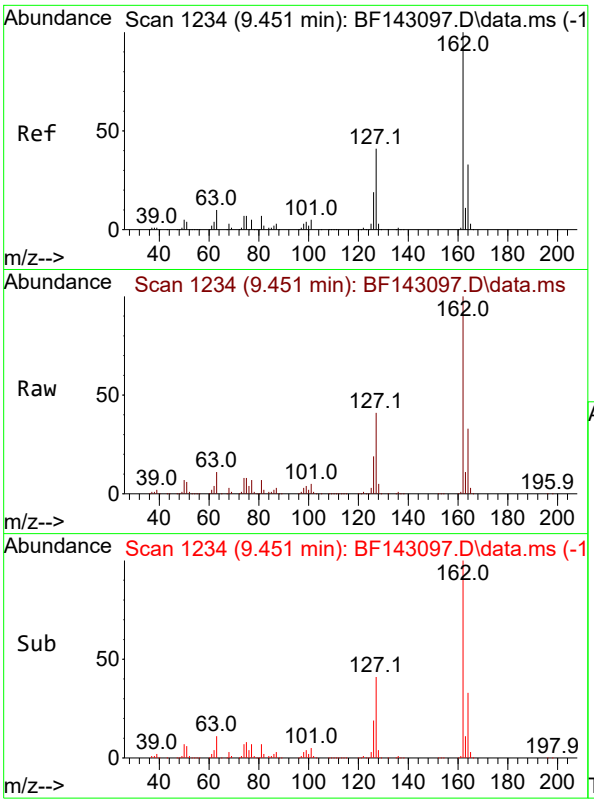


#46
1,1'-Biphenyl
Concen: 39.288 ng
RT: 9.428 min Scan# 1230
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:154 Resp: 713513

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	13.7	0.0	33.7

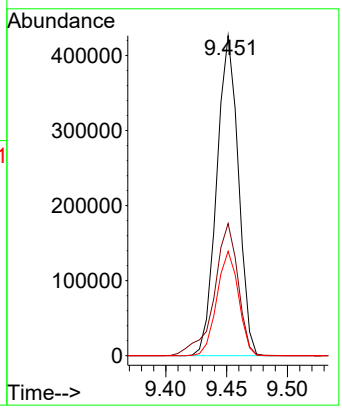




#47
2-Chloronaphthalene
Concen: 39.561 ng
RT: 9.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:162 Resp: 52780

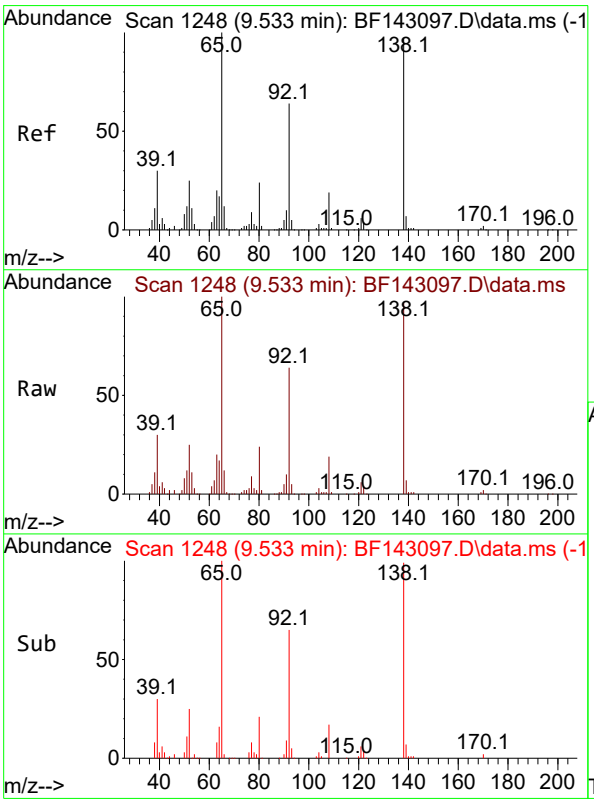
Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.0	49.6
164	32.6	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

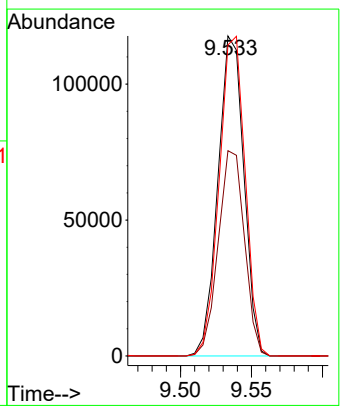
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

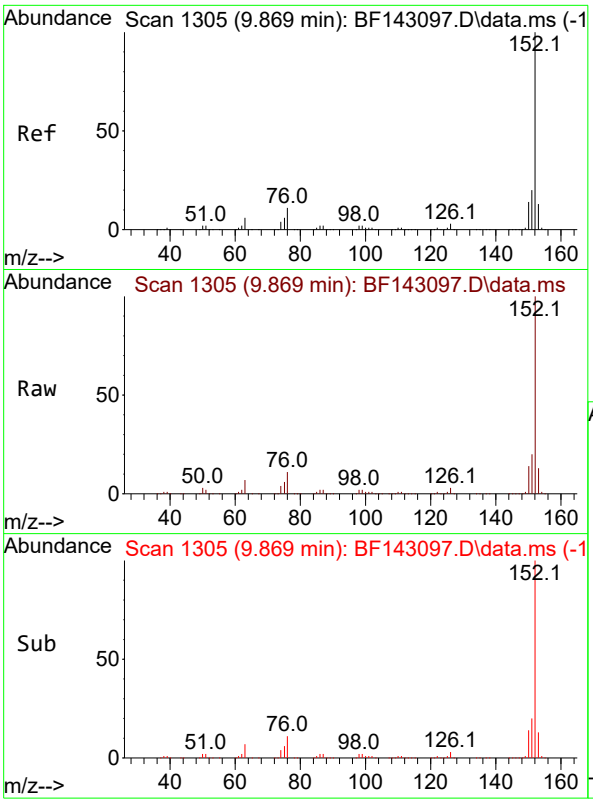


#48
2-Nitroaniline
Concen: 38.182 ng
RT: 9.533 min Scan# 1248
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 65 Resp: 149322

Ion	Ratio	Lower	Upper
65	100		
92	64.1	51.3	76.9
138	97.2	77.8	116.6

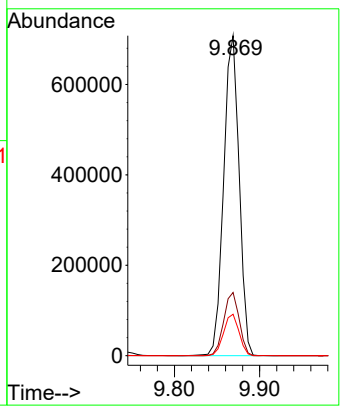




#49
Acenaphthylene
Concen: 40.126 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:152 Resp: 89205

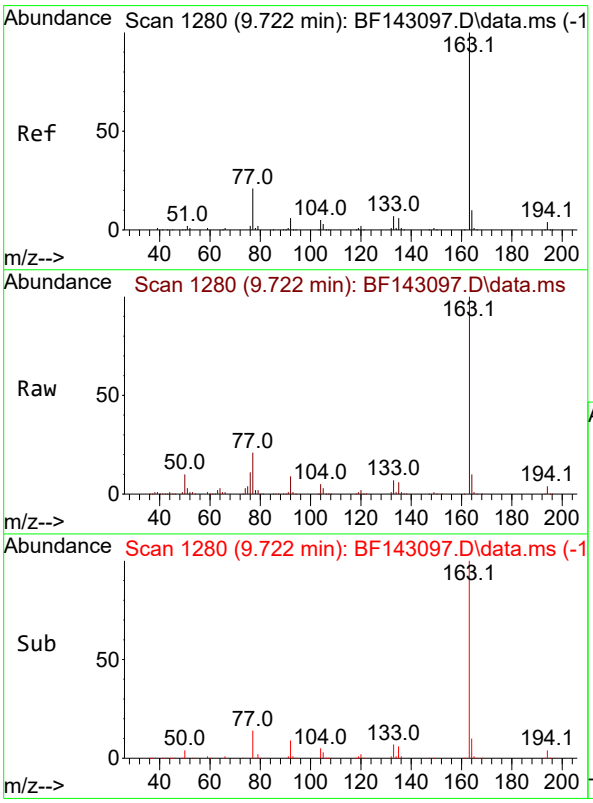
Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.0	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

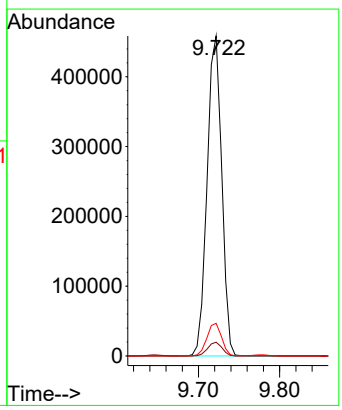
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

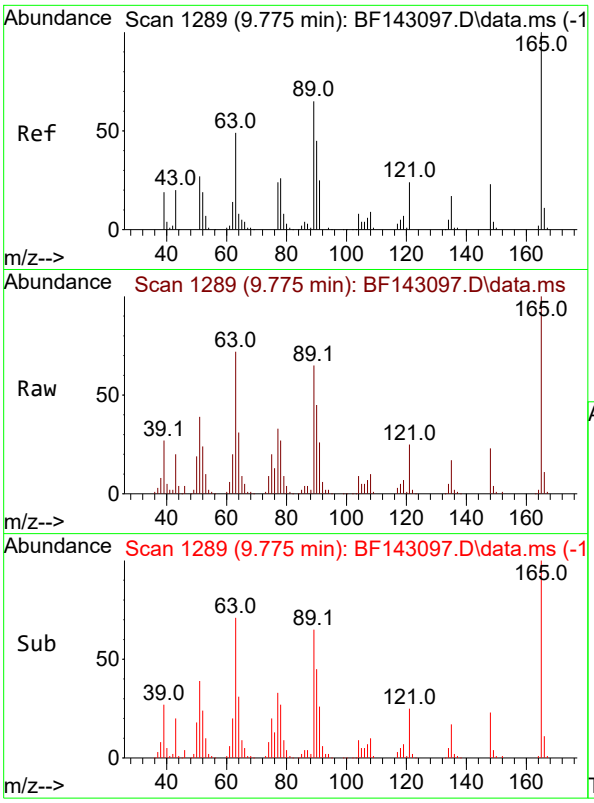


#50
Dimethylphthalate
Concen: 39.971 ng
RT: 9.722 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:163 Resp: 572658

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 38.213 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

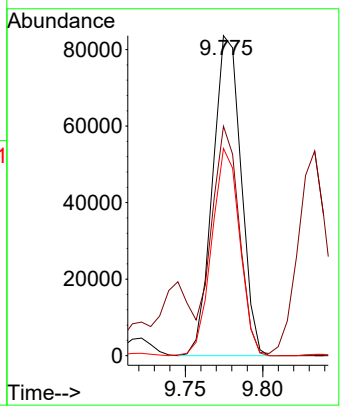
Tgt Ion:165 Resp: 10646

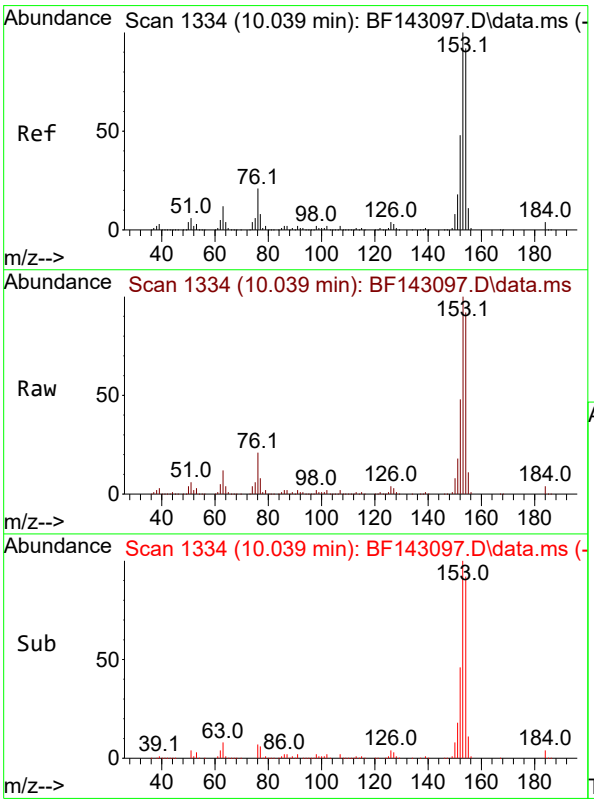
Ion	Ratio	Lower	Upper
165	100		
63	71.7	57.4	86.0
89	64.8	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

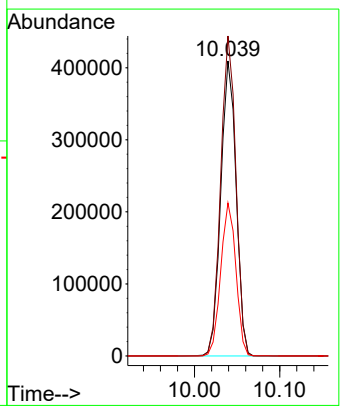


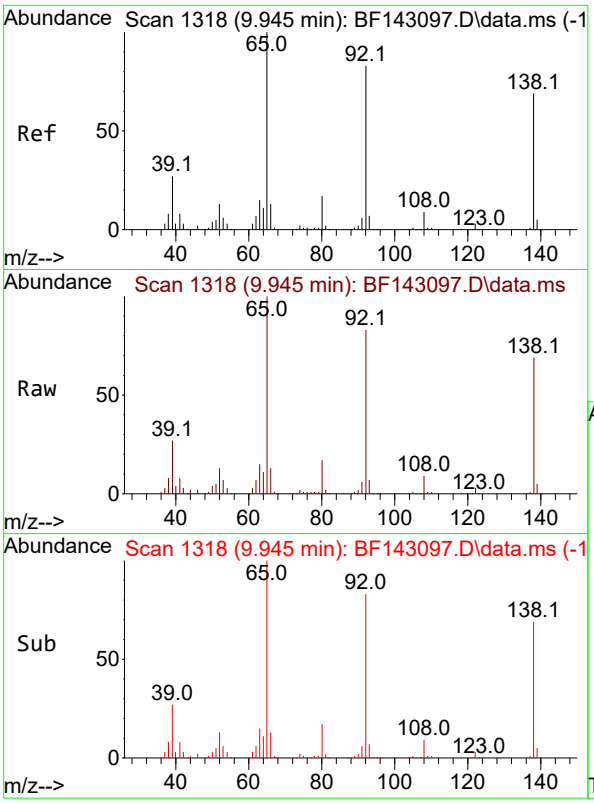


#52
Acenaphthene
Concen: 39.131 ng
RT: 10.039 min Scan# 1334
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:154 Resp: 513370

Ion	Ratio	Lower	Upper
154	100		
153	108.4	86.7	130.1
152	51.8	41.4	62.2





#53
3-Nitroaniline
Concen: 42.301 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

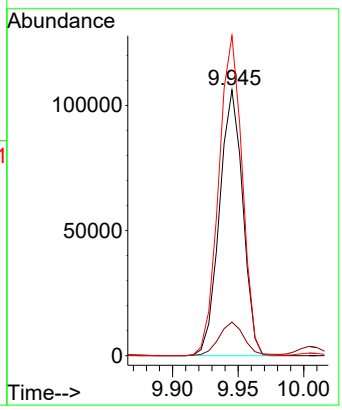
Tgt Ion:138 Resp: 13095

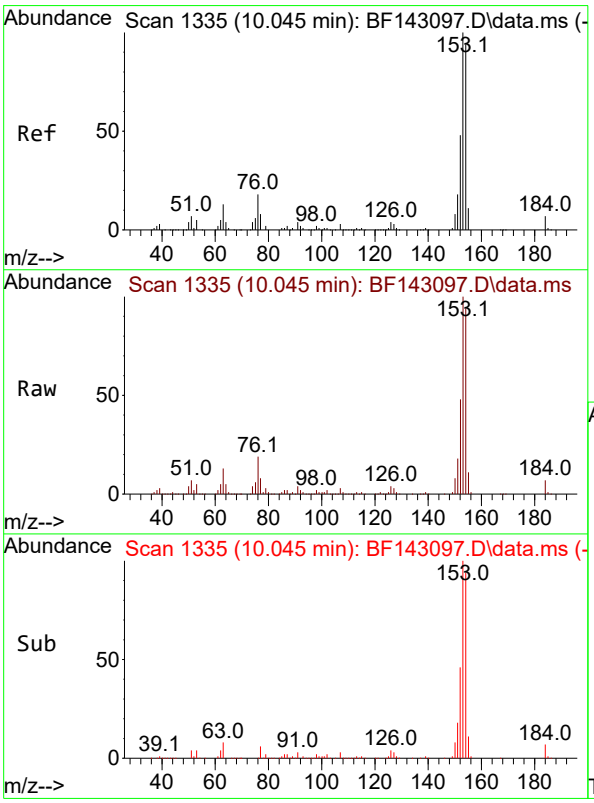
Ion	Ratio	Lower	Upper
138	100		
108	12.6	10.1	15.1
92	120.5	96.4	144.6

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

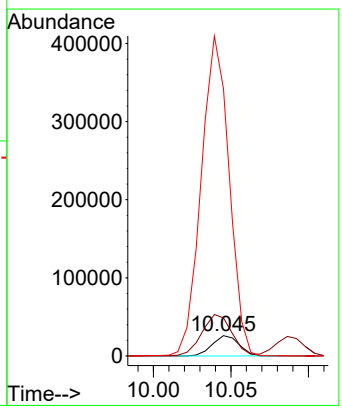


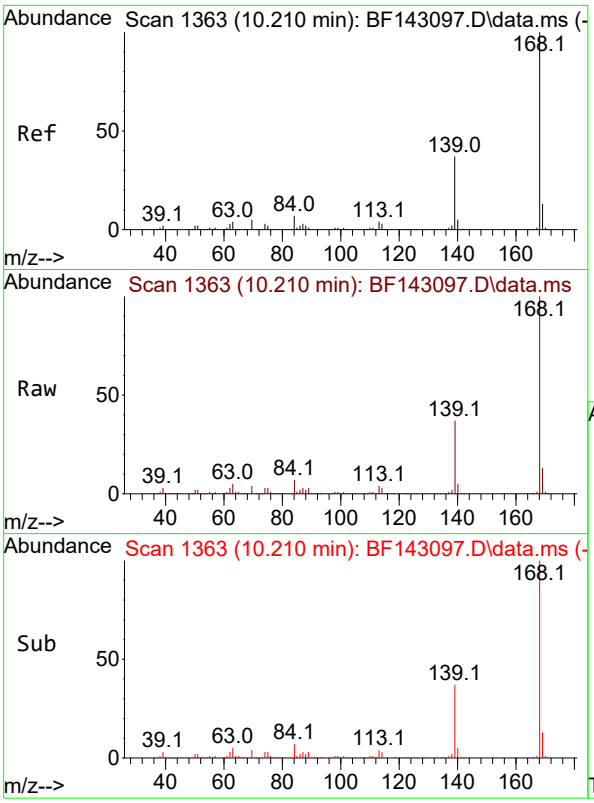


#54
2,4-Dinitrophenol
Concen: 37.582 ng
RT: 10.045 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:184 Resp: 31236

Ion	Ratio	Lower	Upper
184	100		
63	186.6	149.3	223.9
154	1310.0	1048.0	1572.0

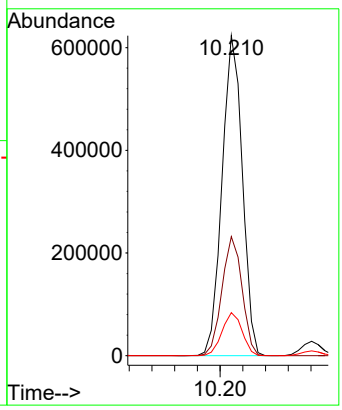




#55
Dibenzofuran
Concen: 39.524 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:168 Resp: 77286

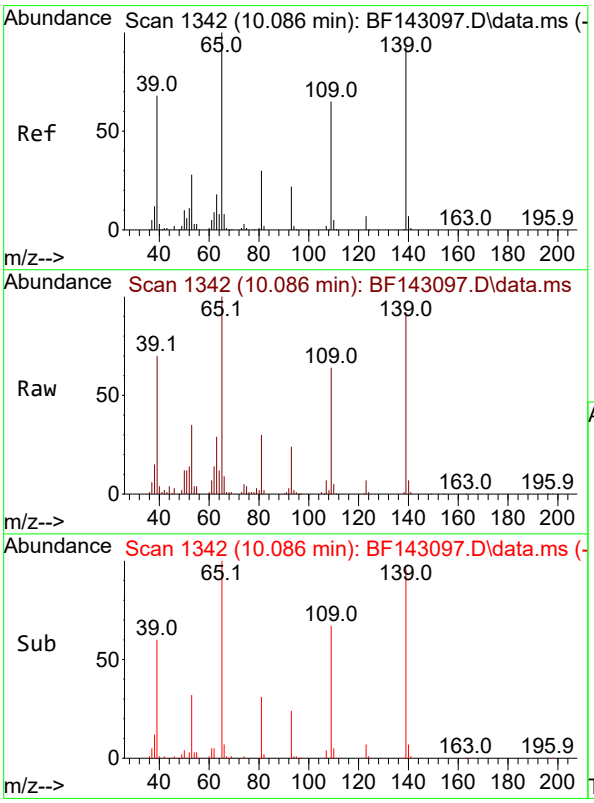
Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

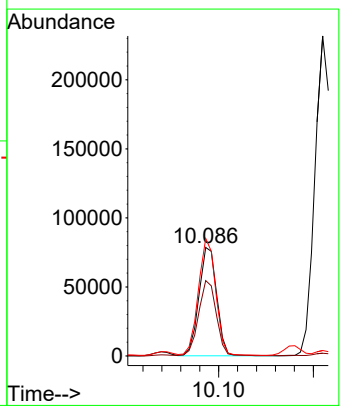
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

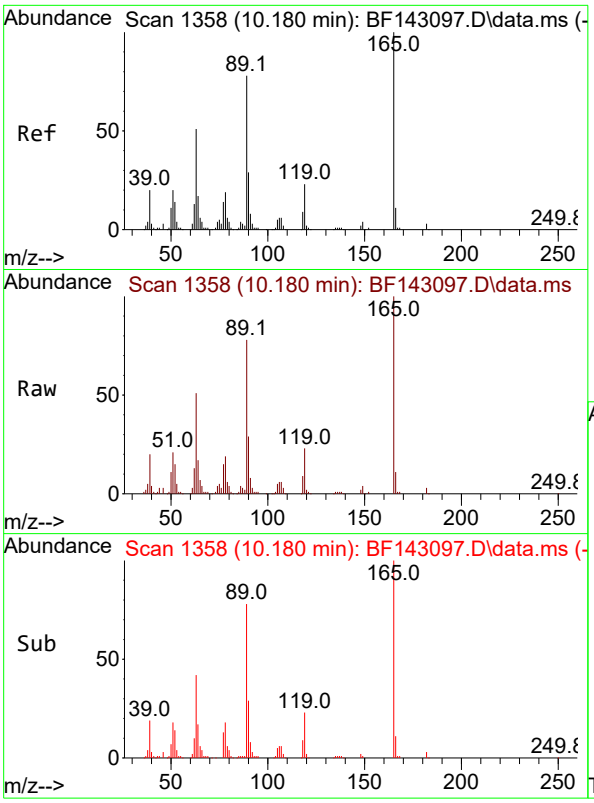


#56
4-Nitrophenol
Concen: 41.436 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:139 Resp: 101948

Ion	Ratio	Lower	Upper
139	100		
109	69.4	49.4	89.4
65	108.2	88.2	128.2

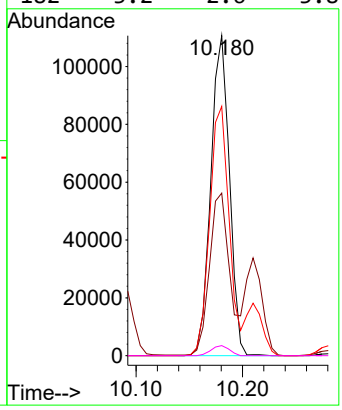




#57
2,4-Dinitrotoluene
Concen: 38.682 ng
RT: 10.180 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:165 Resp: 13424

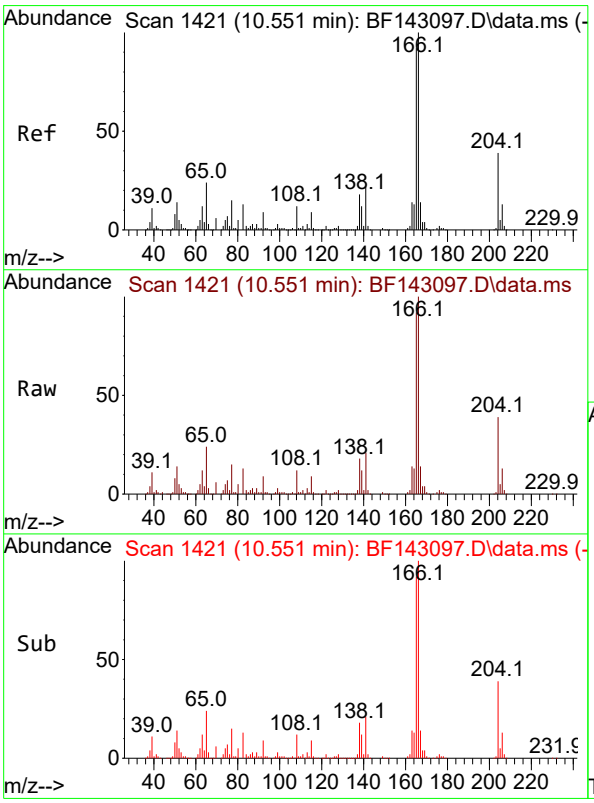
Ion	Ratio	Lower	Upper
165	100		
63	50.8	40.6	61.0
89	77.9	62.3	93.5
182	3.2	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

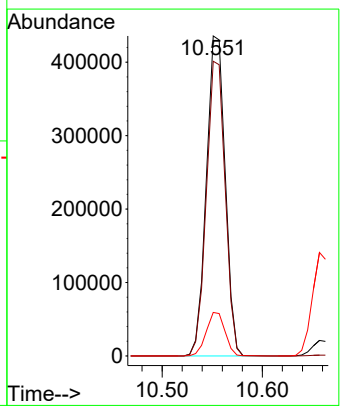
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

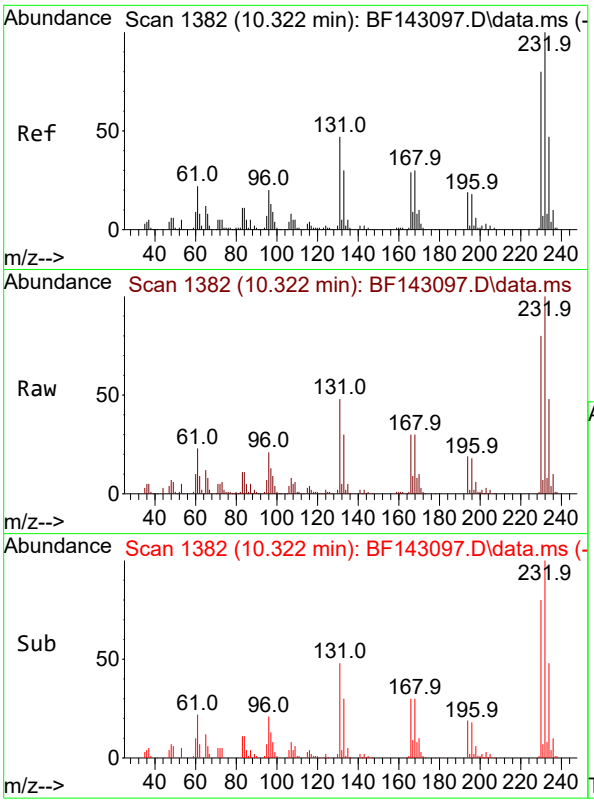


#58
Fluorene
Concen: 38.710 ng
RT: 10.551 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:166 Resp: 567511

Ion	Ratio	Lower	Upper
166	100		
165	92.1	73.7	110.5
167	13.6	10.9	16.3

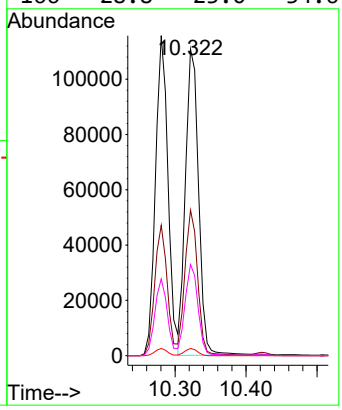




#59
2,3,4,6-Tetrachlorophenol
Concen: 41.334 ng
RT: 10.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:232 Resp: 14202

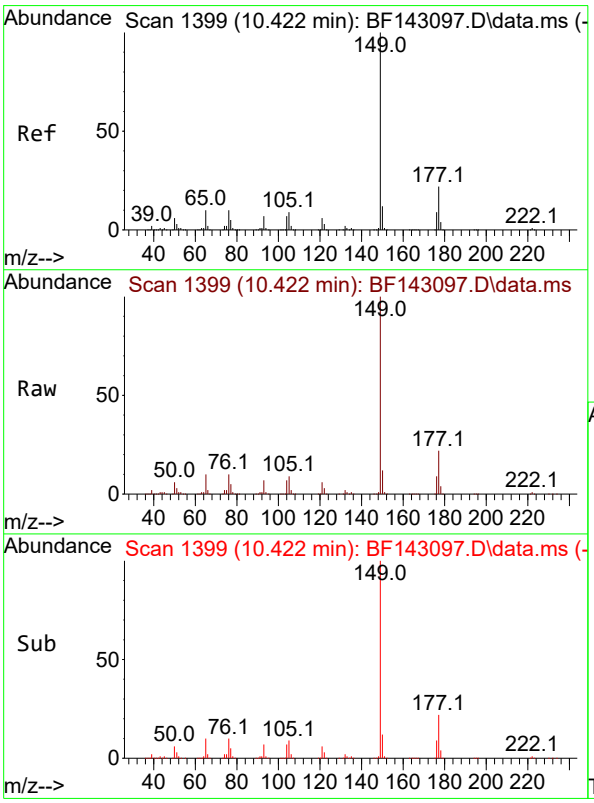
Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.9	55.3
130	2.3	1.8	2.8
166	28.8	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

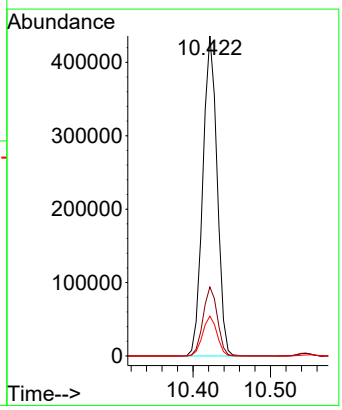
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

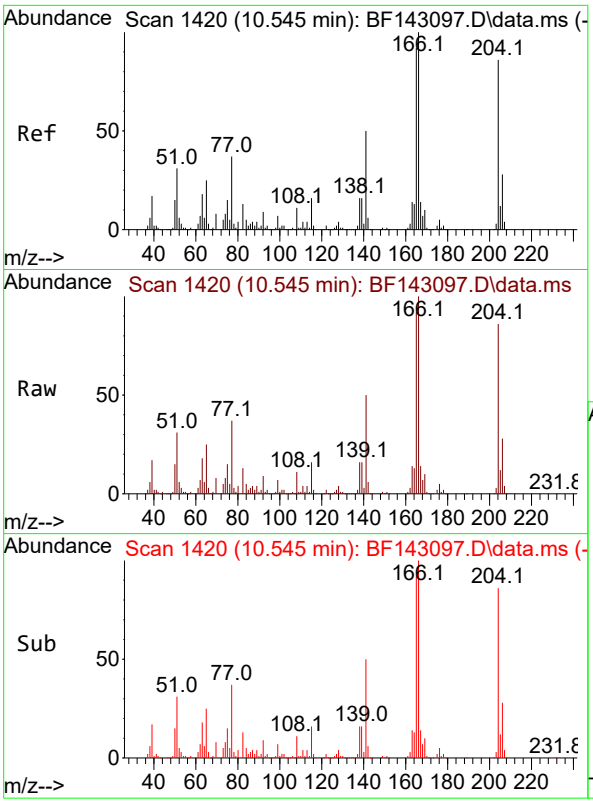


#60
Diethylphthalate
Concen: 40.349 ng
RT: 10.422 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:149 Resp: 557712

Ion	Ratio	Lower	Upper
149	100		
177	21.6	17.3	25.9
150	12.4	9.9	14.9

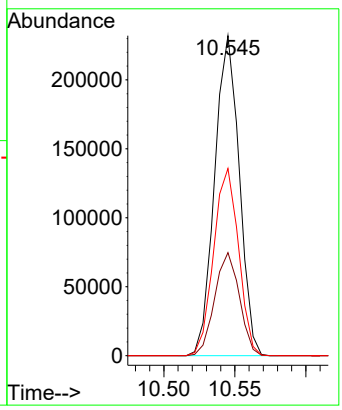




#61
4-Chlorophenyl-phenylether
Concen: 39.822 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:204 Resp: 27981

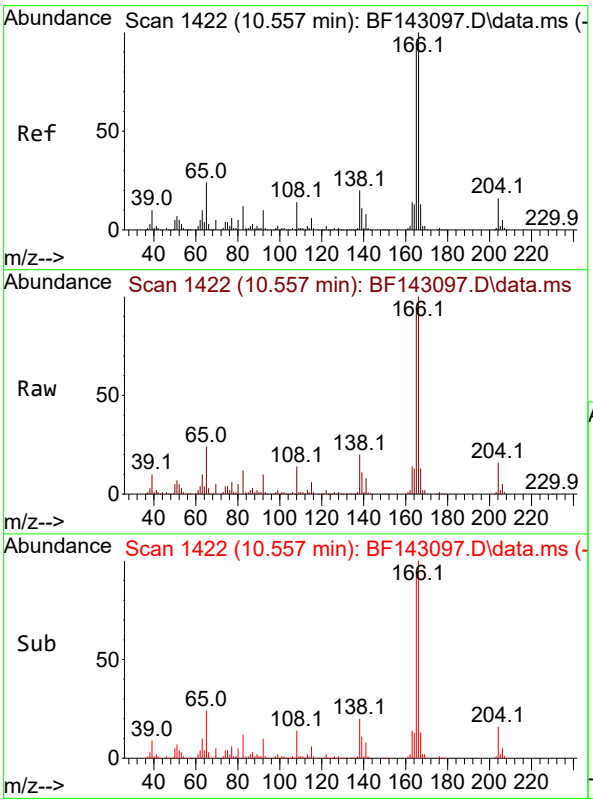
Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.8	38.6
141	58.5	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

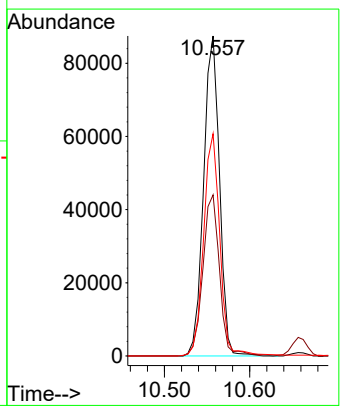
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

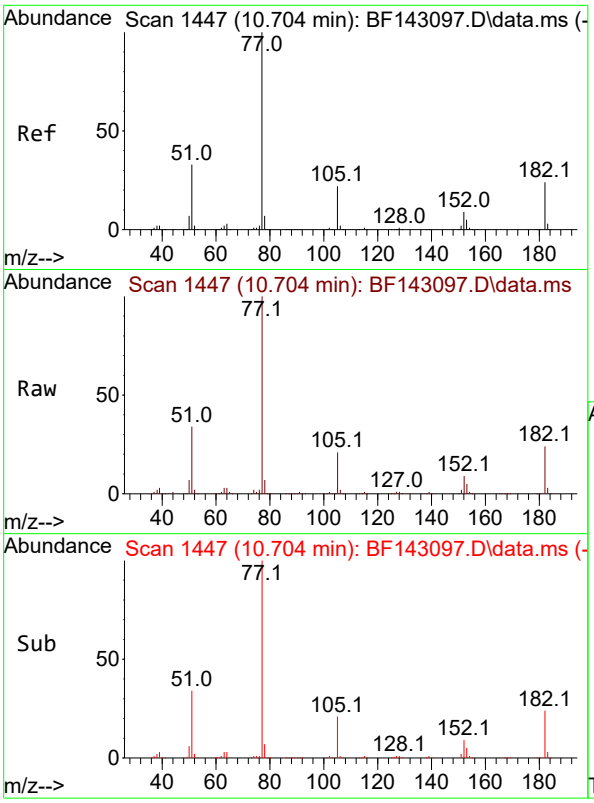


#62
4-Nitroaniline
Concen: 42.106 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:138 Resp: 113355

Ion	Ratio	Lower	Upper
138	100		
92	50.4	30.4	70.4
108	69.5	49.5	89.5

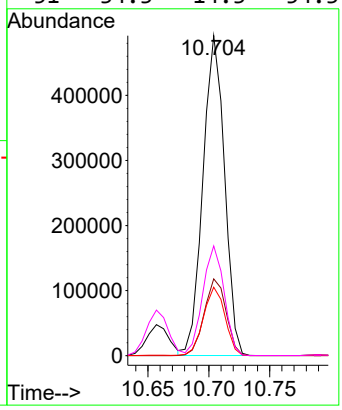




#63
Azobenzene
Concen: 39.558 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion: 77 Resp: 60471

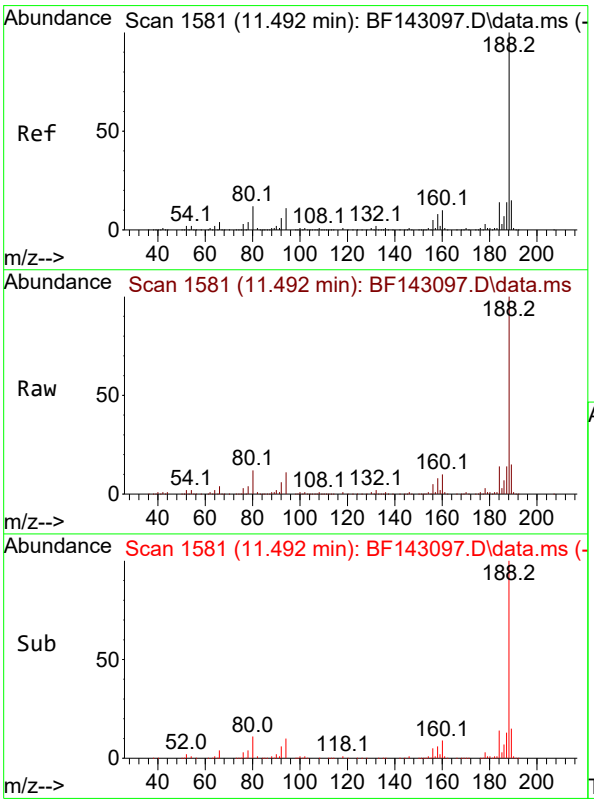
Ion	Ratio	Lower	Upper
77	100		
182	24.0	4.0	44.0
105	21.4	1.4	41.4
51	34.3	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

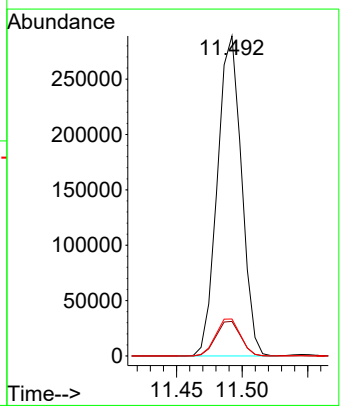
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

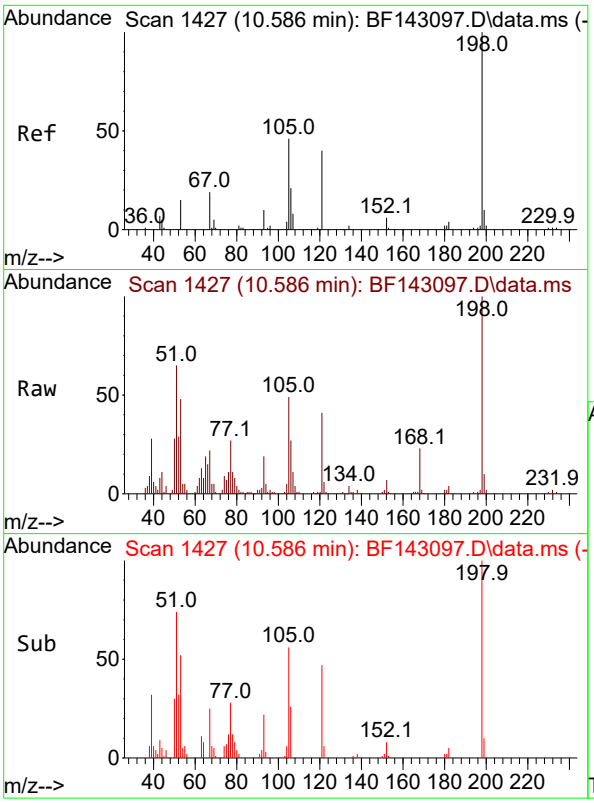


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:188 Resp: 369241

Ion	Ratio	Lower	Upper
188	100		
94	10.8	8.6	13.0
80	11.6	9.3	13.9

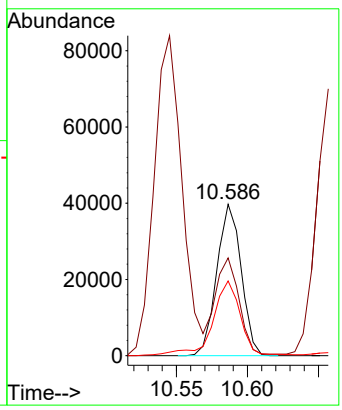




#65
4,6-Dinitro-2-methylphenol
Concen: 37.223 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:198 Resp: 4734

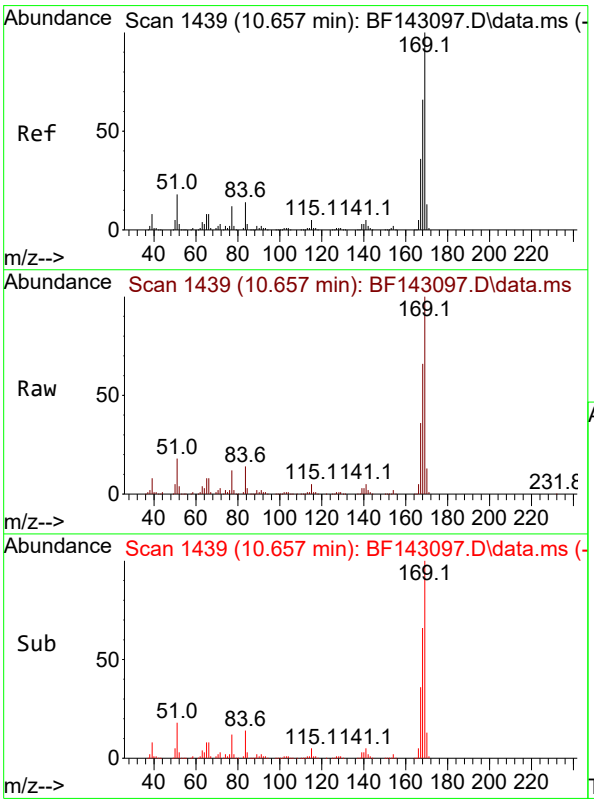
Ion	Ratio	Lower	Upper
198	100		
51	64.6	44.6	84.6
105	49.3	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

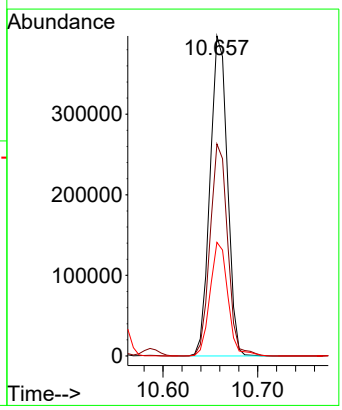
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

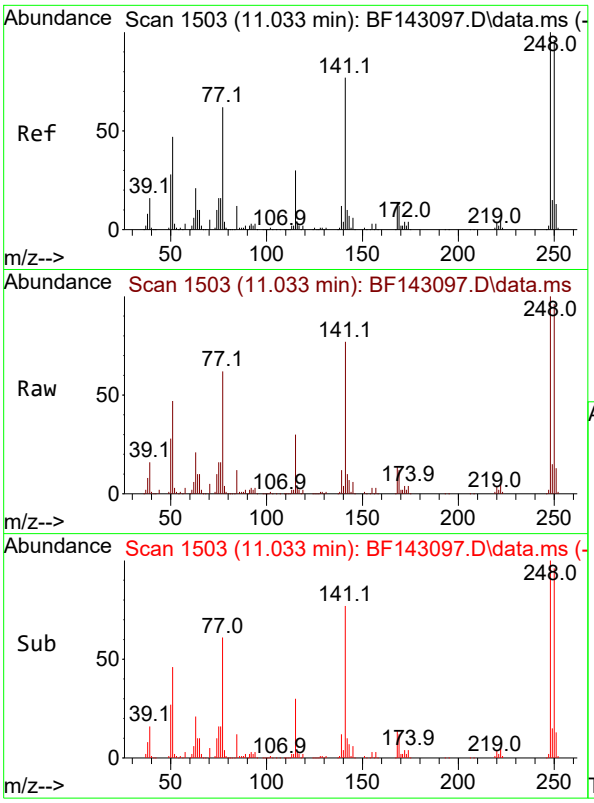


#66
n-Nitrosodiphenylamine
Concen: 38.827 ng
RT: 10.657 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:169 Resp: 503590

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.6
167	35.5	28.4	42.6

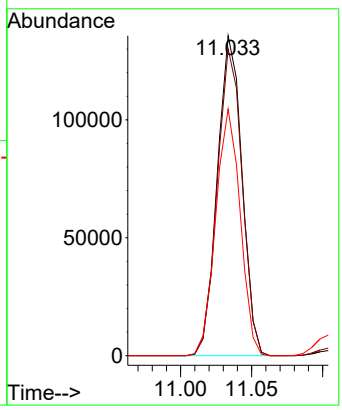




#67
4-Bromophenyl-phenylether
Concen: 39.088 ng
RT: 11.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:248 Resp: 16413

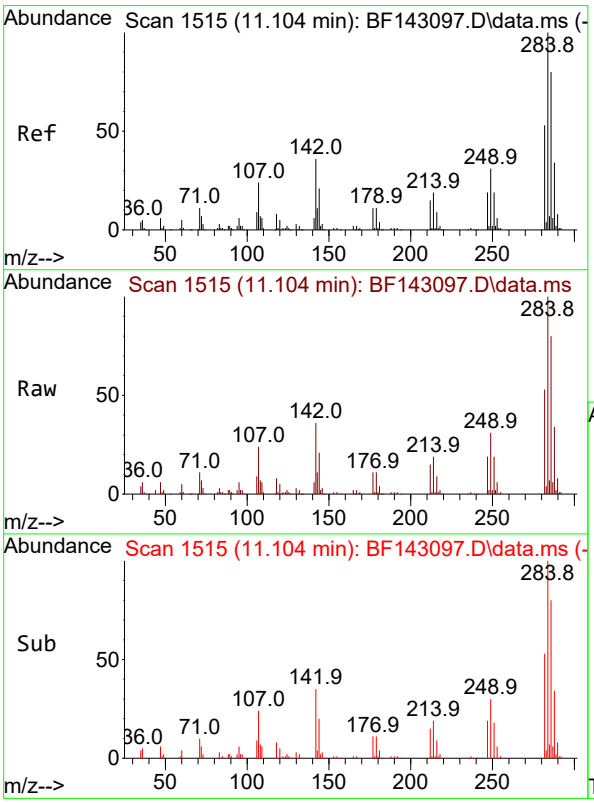
Ion	Ratio	Lower	Upper
248	100		
250	95.9	76.7	115.1
141	77.1	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

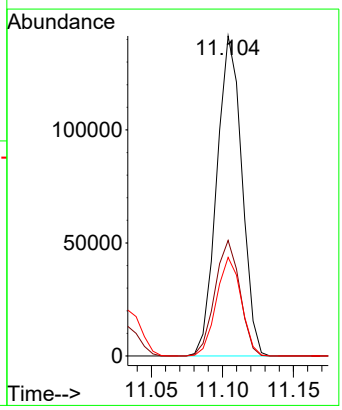
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

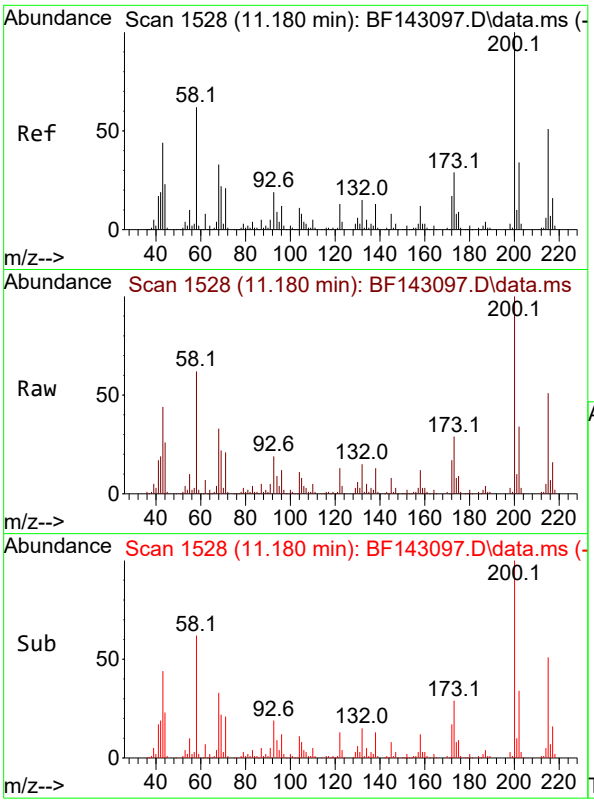


#68
Hexachlorobenzene
Concen: 39.034 ng
RT: 11.104 min Scan# 1515
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:284 Resp: 173911

Ion	Ratio	Lower	Upper
284	100		
142	36.1	28.9	43.3
249	30.8	24.6	37.0

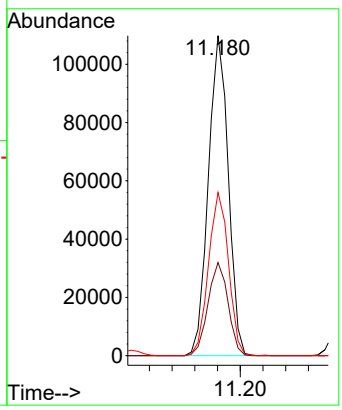




#69
Atrazine
Concen: 40.206 ng
RT: 11.180 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:200 Resp: 13341

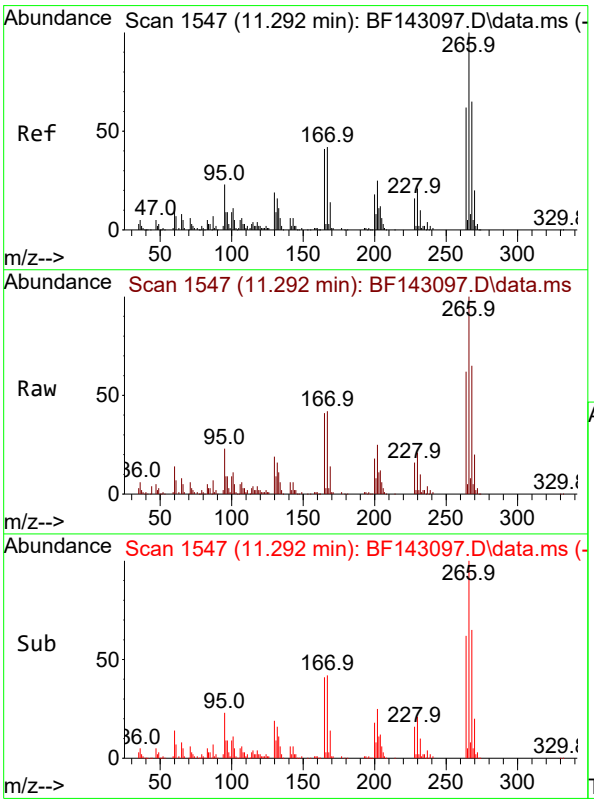
Ion	Ratio	Lower	Upper
200	100		
173	29.1	9.1	49.1
215	51.0	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

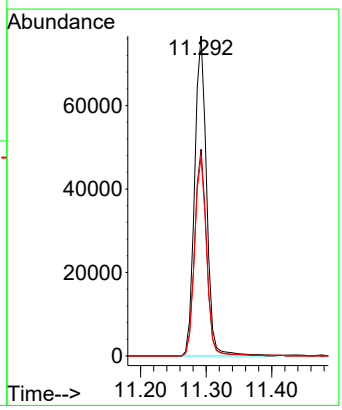
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

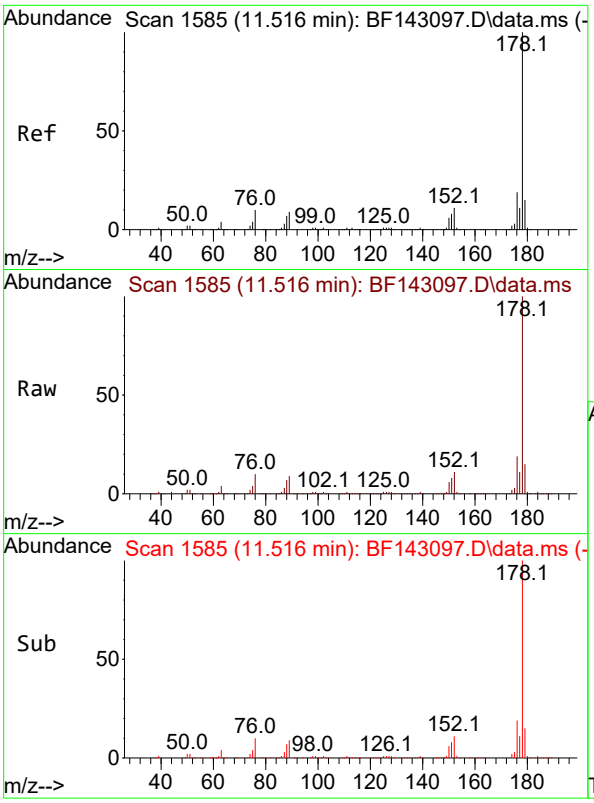


#70
Pentachlorophenol
Concen: 39.938 ng
RT: 11.292 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:266 Resp: 97625

Ion	Ratio	Lower	Upper
266	100		
268	64.7	51.8	77.6
264	62.1	49.7	74.5

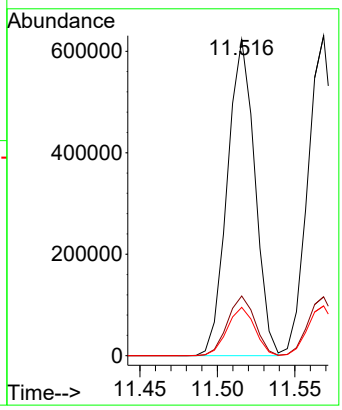




#71
Phenanthrene
Concen: 38.609 ng
RT: 11.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:178 Resp: 76937

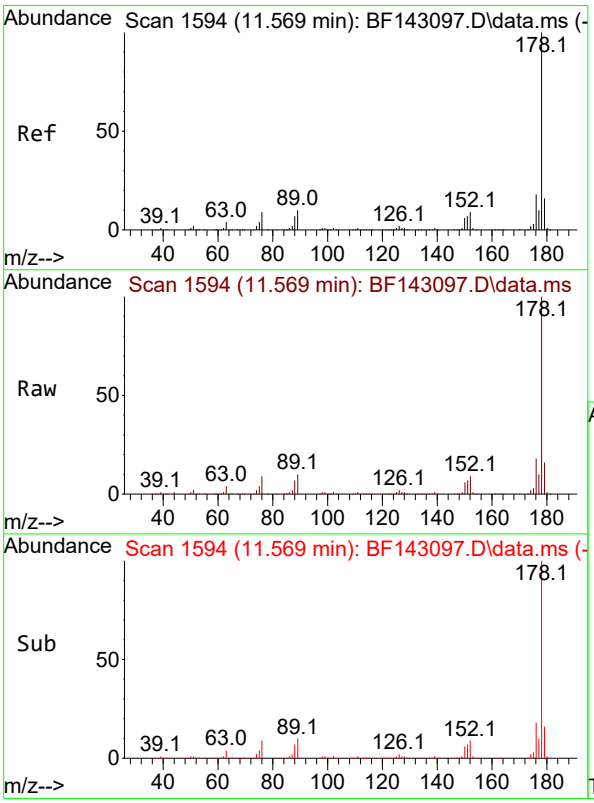
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.3	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

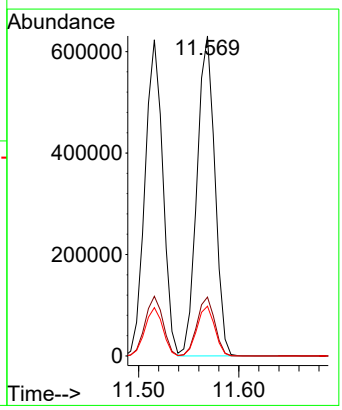
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

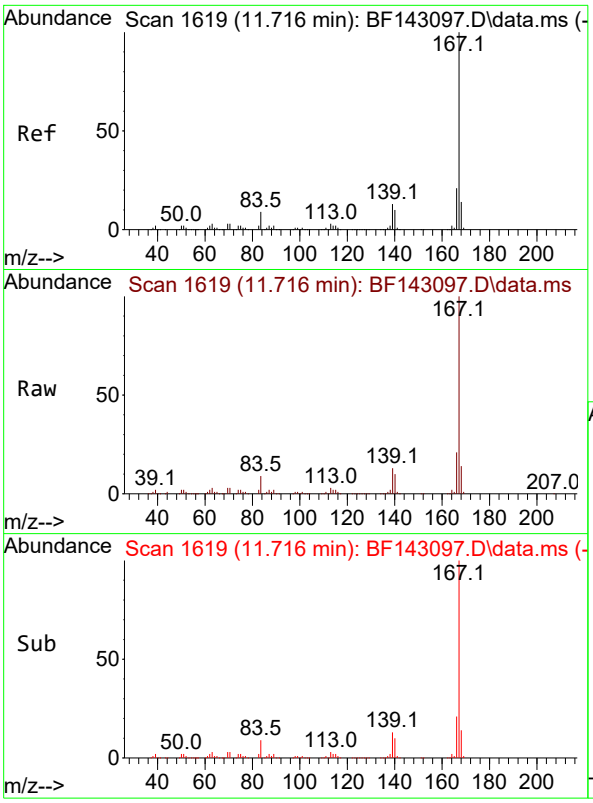


#72
Anthracene
Concen: 38.961 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:178 Resp: 780754

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.5	12.4	18.6

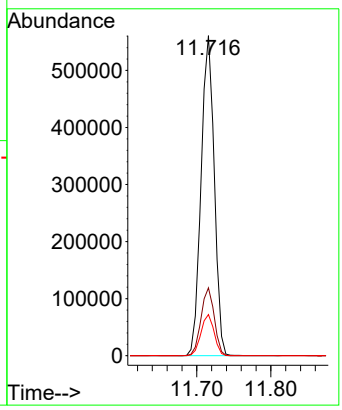




#73
Carbazole
Concen: 38.572 ng
RT: 11.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:167 Resp: 69246

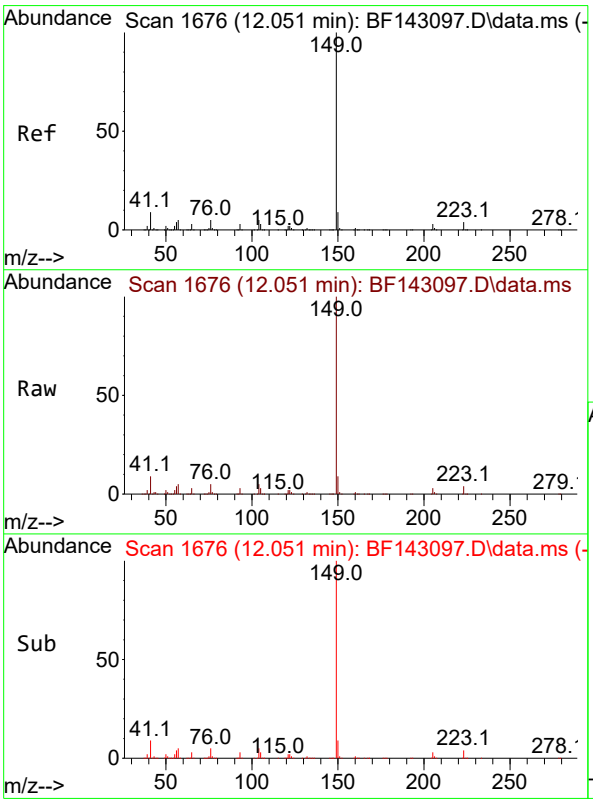
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.4
139	12.8	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

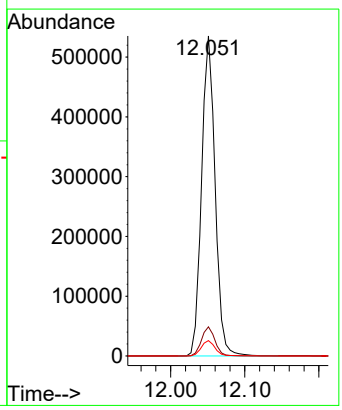
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

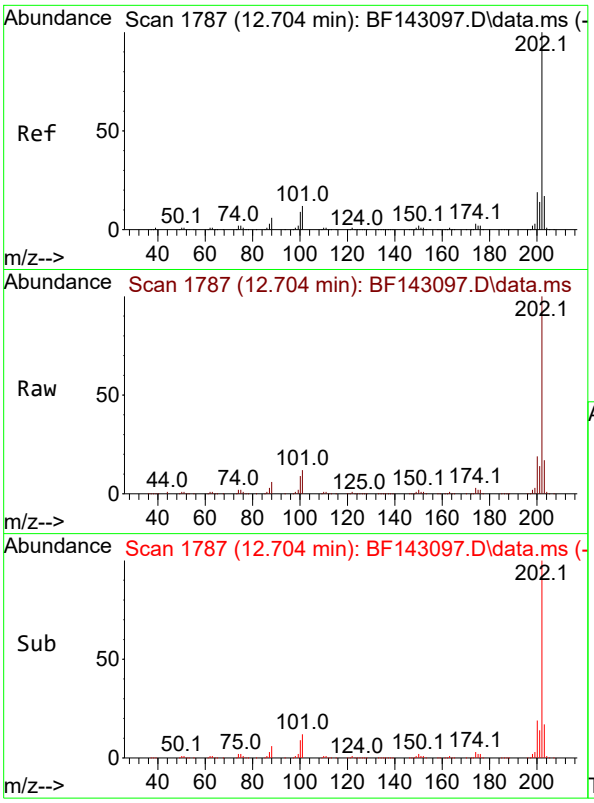


#74
Di-n-butylphthalate
Concen: 41.288 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:149 Resp: 680394

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.8	3.8	5.8





#75
Fluoranthene
Concen: 39.115 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

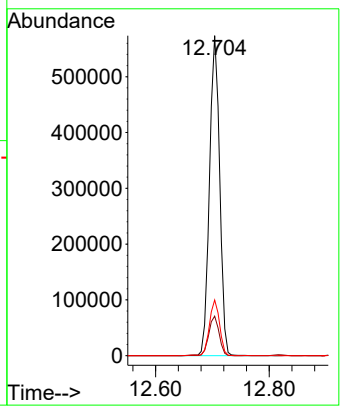
Tgt Ion:202 Resp: 70873

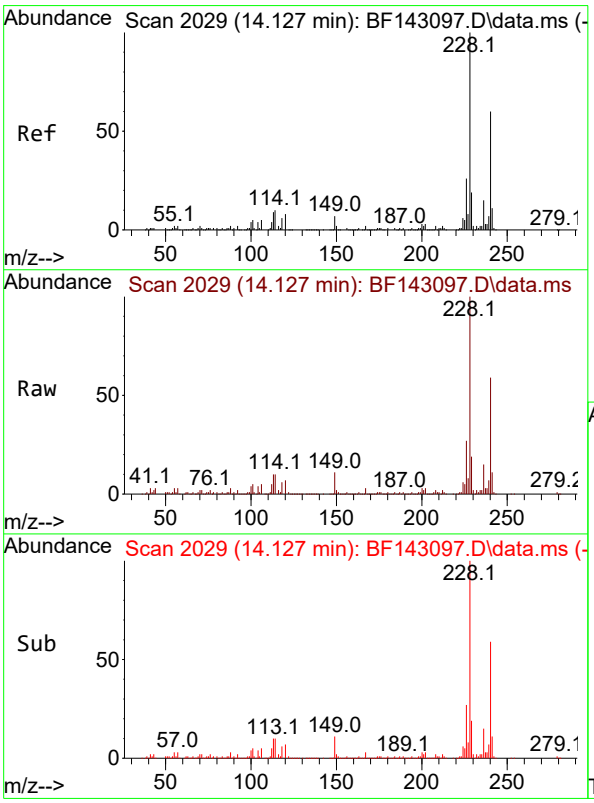
Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	32.4
203	17.4	0.0	37.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

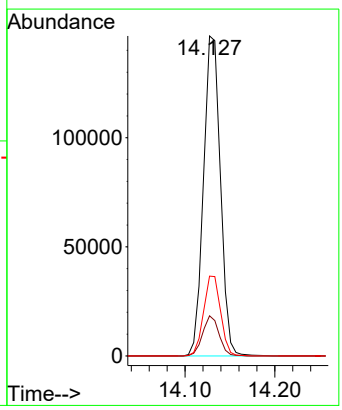


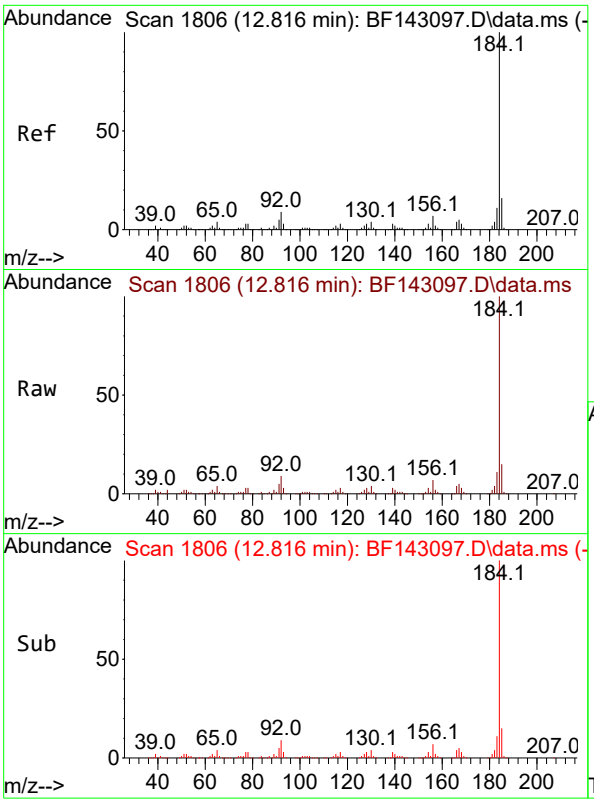


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:240 Resp: 192349

Ion	Ratio	Lower	Upper
240	100		
120	12.5	10.0	15.0
236	25.0	20.0	30.0

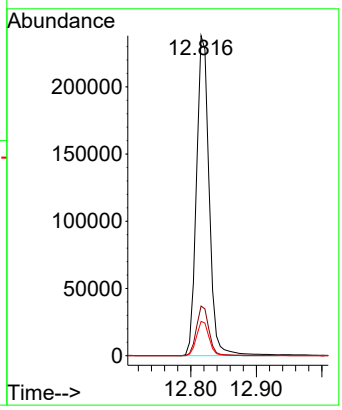




#77
Benzidine
Concen: 48.989 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:184 Resp: 32102

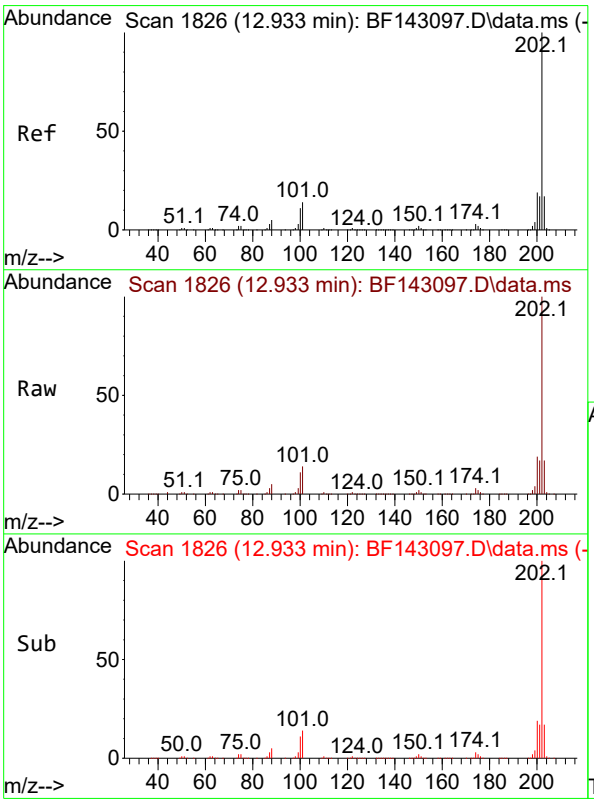
Ion	Ratio	Lower	Upper
184	100		
185	15.5	12.4	18.6
183	10.7	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

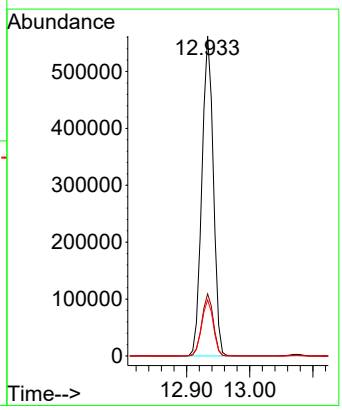
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

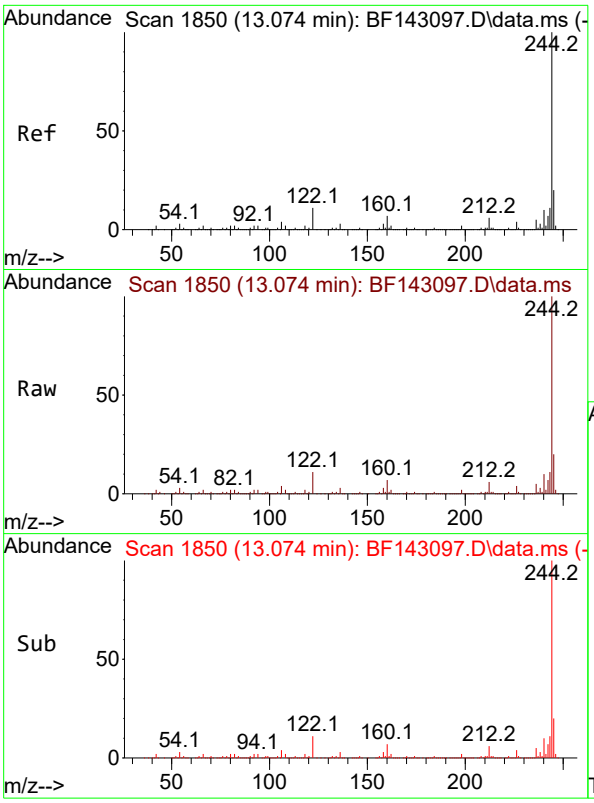


#78
Pyrene
Concen: 39.706 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:202 Resp: 708631

Ion	Ratio	Lower	Upper
202	100		
200	19.4	15.5	23.3
203	17.5	14.0	21.0

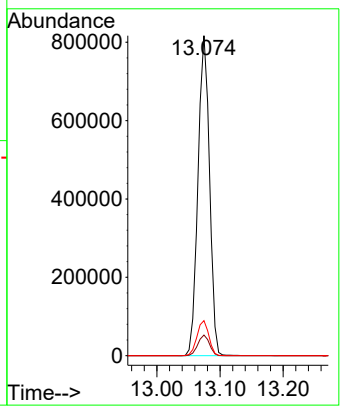




#79
Terphenyl-d14
Concen: 78.547 ng
RT: 13.074 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:244 Resp: 103354

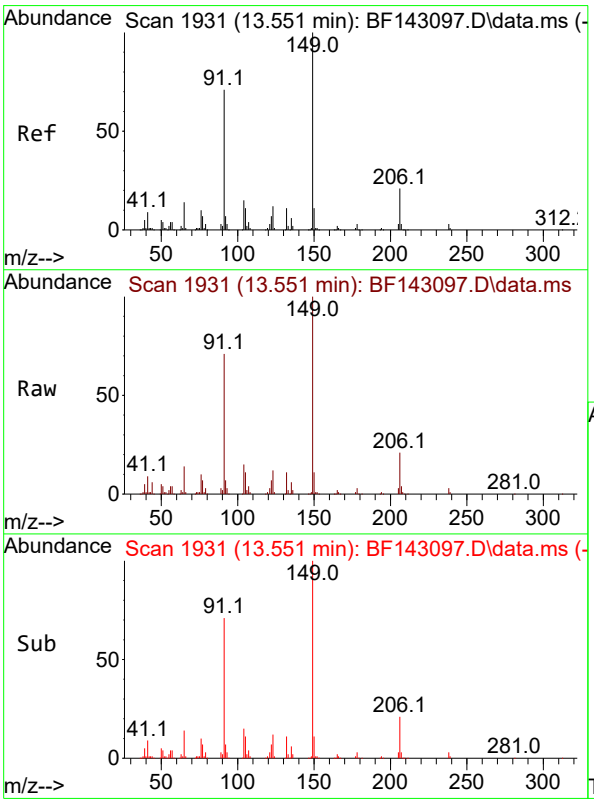
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

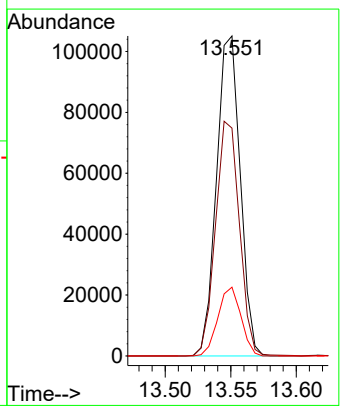
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

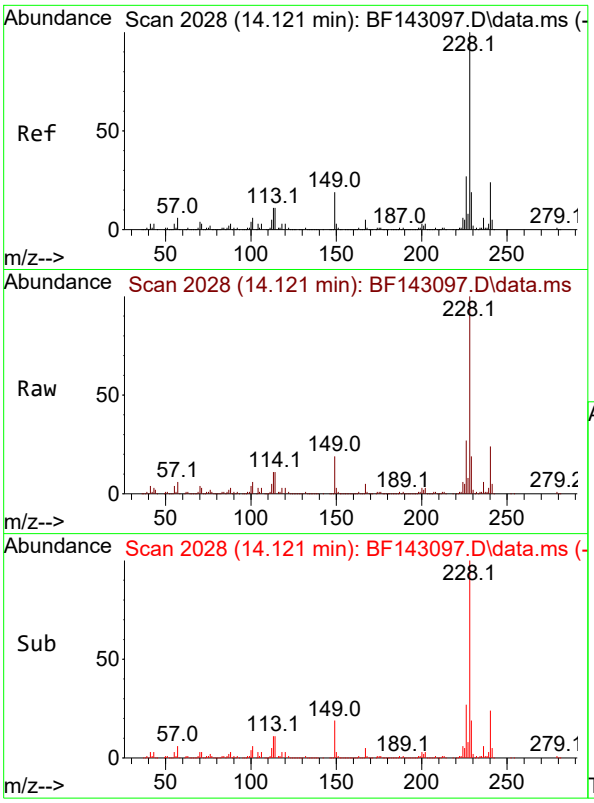


#80
Butylbenzylphthalate
Concen: 37.625 ng
RT: 13.551 min Scan# 1931
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:149 Resp: 132061

Ion	Ratio	Lower	Upper
149	100		
91	71.2	57.0	85.4
206	21.5	17.2	25.8

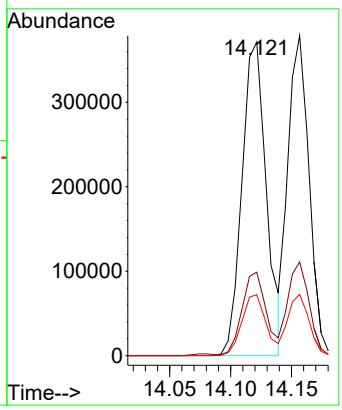




#81
Benzo(a)anthracene
Concen: 40.424 ng
RT: 14.121 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:228 Resp: 51813

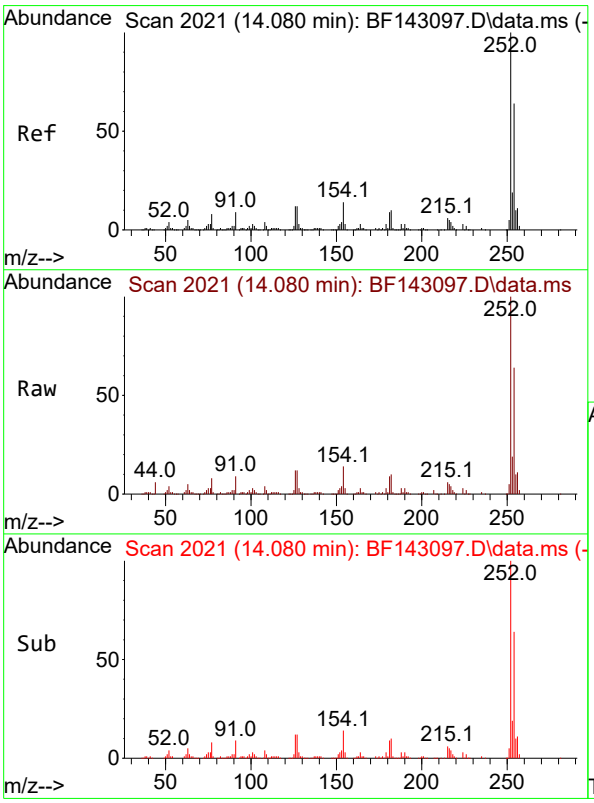
Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.3	31.9
229	19.4	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

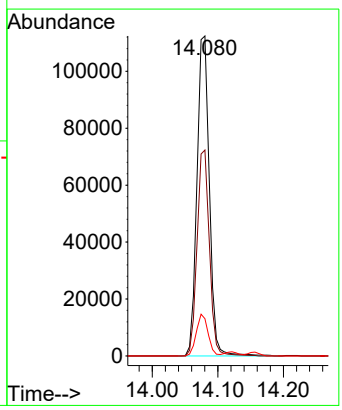
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

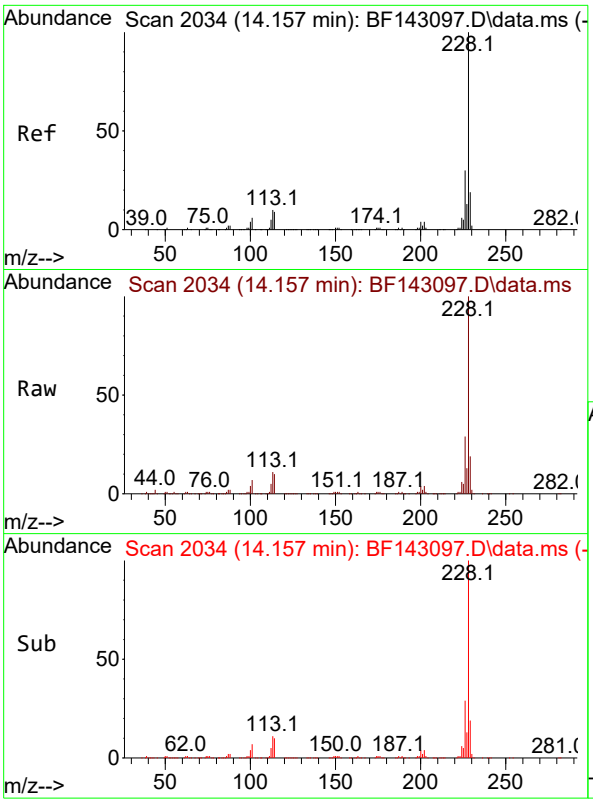


#82
3,3'-Dichlorobenzidine
Concen: 39.841 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:252 Resp: 148294

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.5	77.3
126	11.7	9.4	14.0

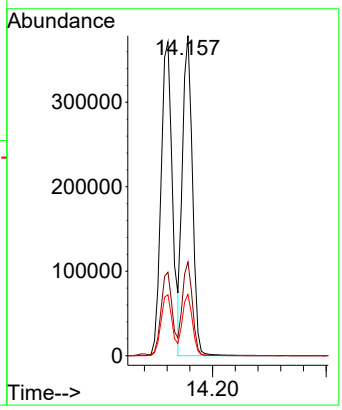




#83
Chrysene
Concen: 39.134 ng
RT: 14.157 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:228 Resp: 461979

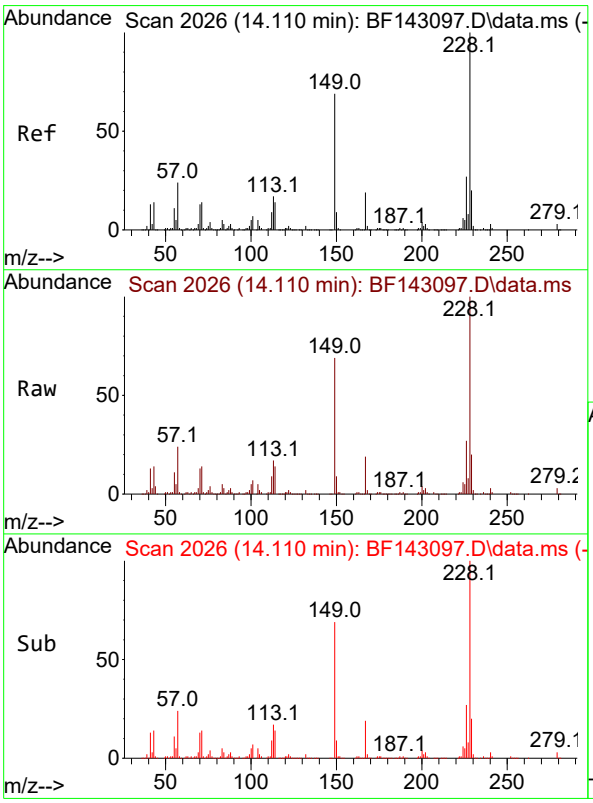
Ion	Ratio	Lower	Upper
228	100		
226	29.3	23.4	35.2
229	19.1	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

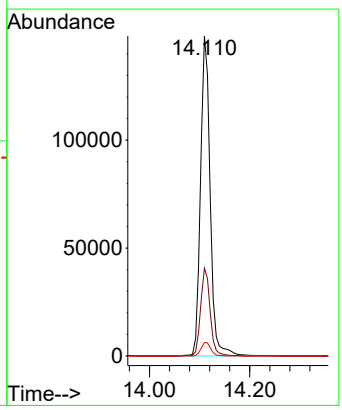
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

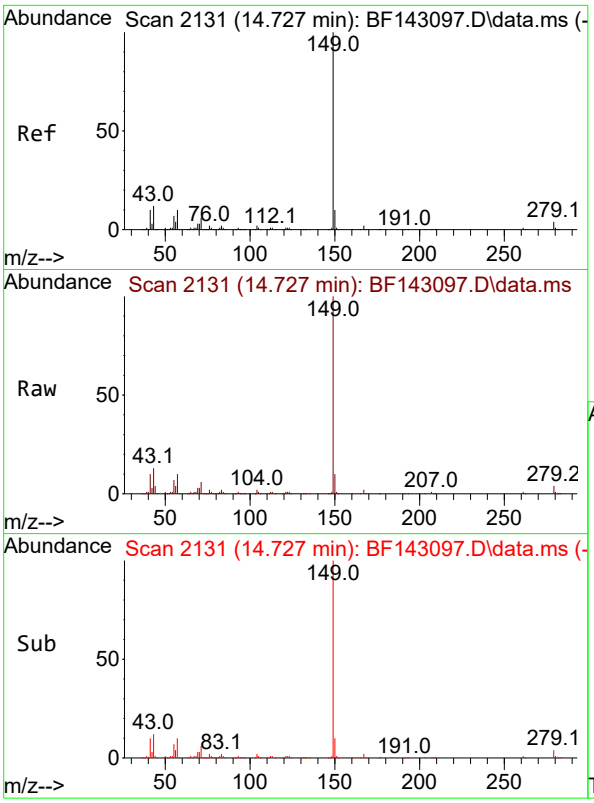


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.454 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:149 Resp: 198176

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.9	32.9
279	4.2	3.4	5.0

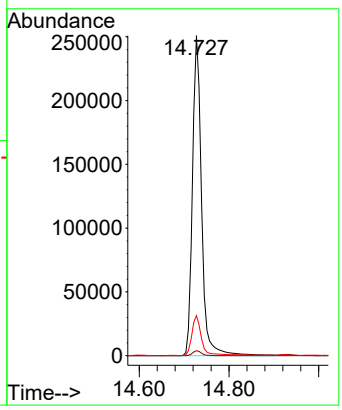




#85
Di-n-octyl phthalate
Concen: 36.531 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:149 Resp: 35474

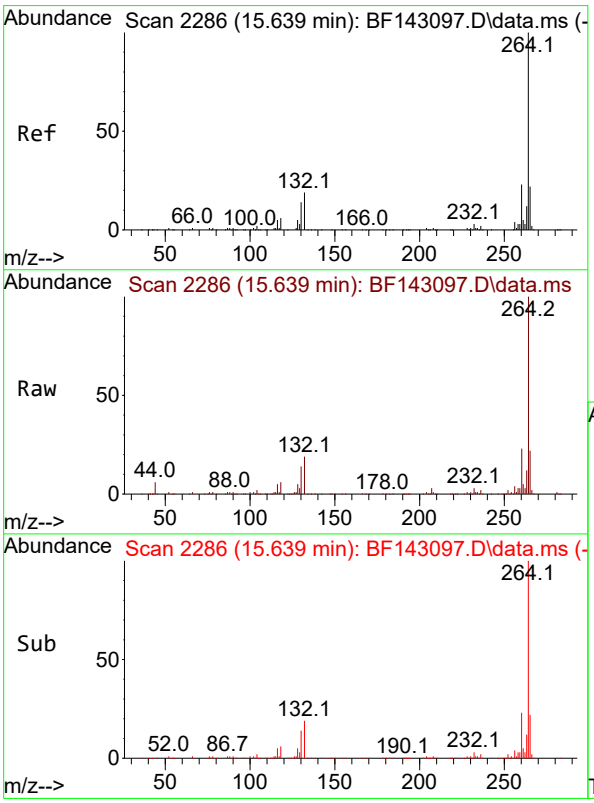
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	13.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

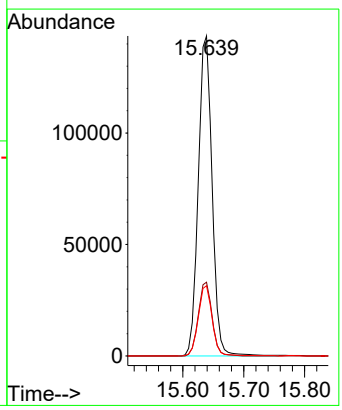
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

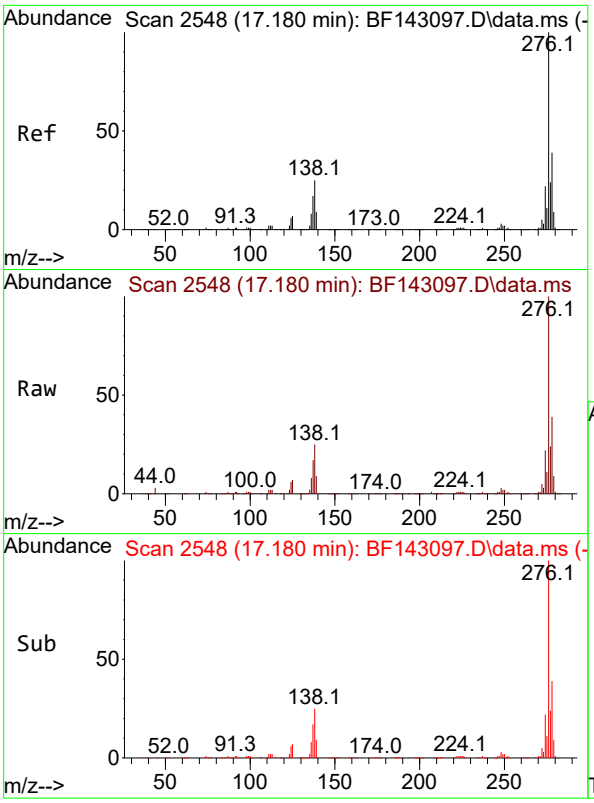


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:264 Resp: 226517

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.5	27.7
265	21.9	17.5	26.3

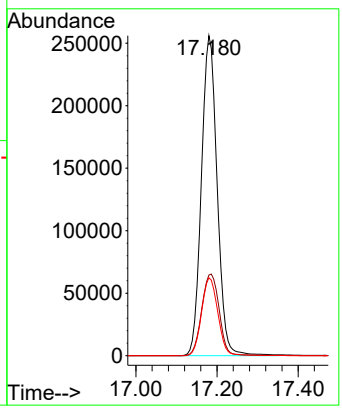




#87
Indeno(1,2,3-cd)pyrene
Concen: 40.912 ng
RT: 17.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:276 Resp: 68927

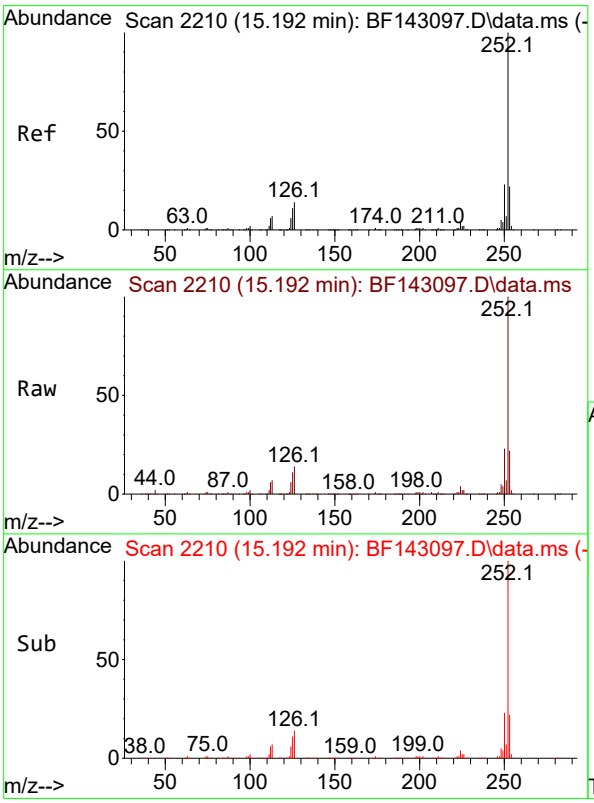
Ion	Ratio	Lower	Upper
276	100		
138	28.3	22.6	34.0
277	25.2	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

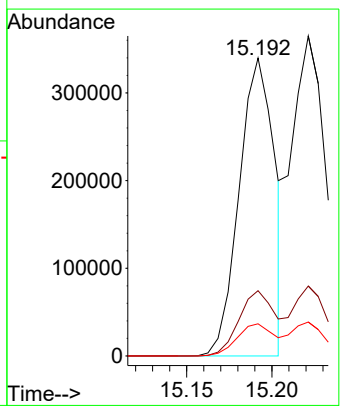
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

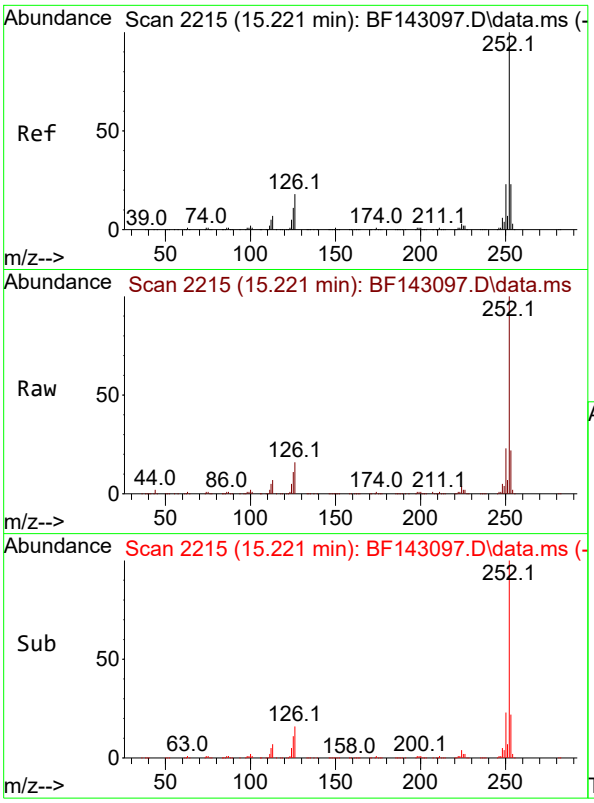


#88
Benzo(b)fluoranthene
Concen: 37.520 ng
RT: 15.192 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:252 Resp: 490240

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	10.8	8.6	13.0

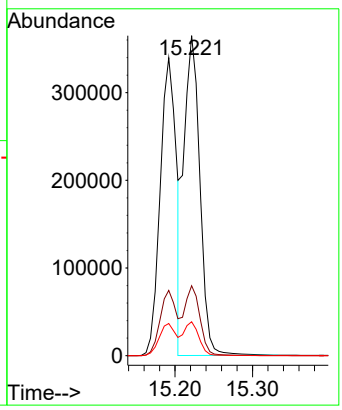




#89
Benzo(k)fluoranthene
Concen: 41.721 ng
RT: 15.221 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:252 Resp: 52005

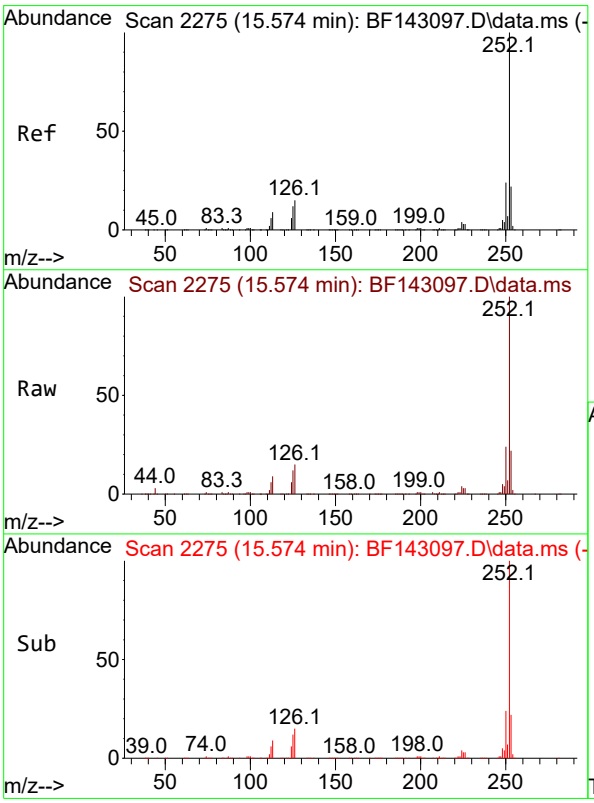
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	10.6	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

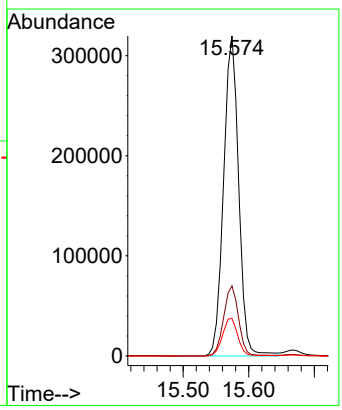
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

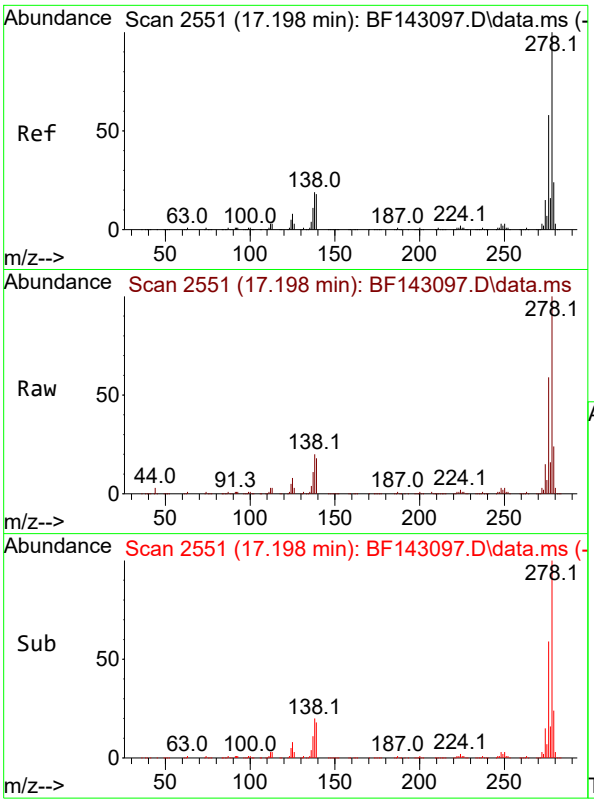


#90
Benzo(a)pyrene
Concen: 41.215 ng
RT: 15.574 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:252 Resp: 509307

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.5	26.3
125	11.7	9.4	14.0

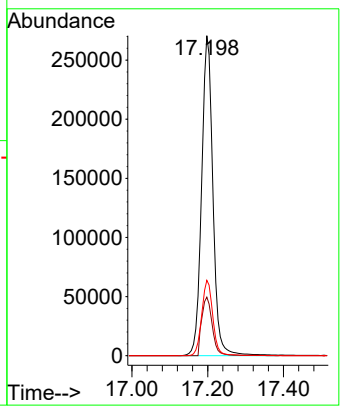




#91
Dibenzo(a,h)anthracene
Concen: 40.782 ng
RT: 17.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:278 Resp: 56166

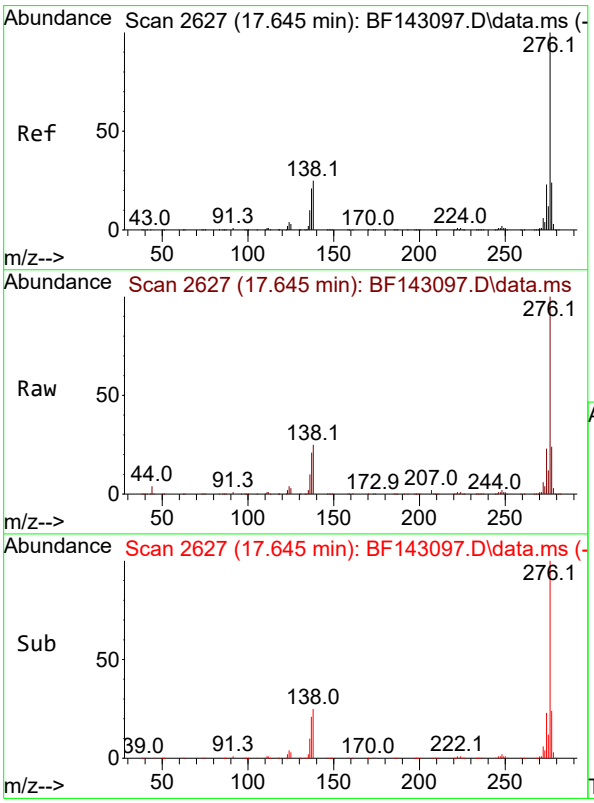
Ion	Ratio	Lower	Upper
278	100		
139	18.3	14.6	22.0
279	23.5	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

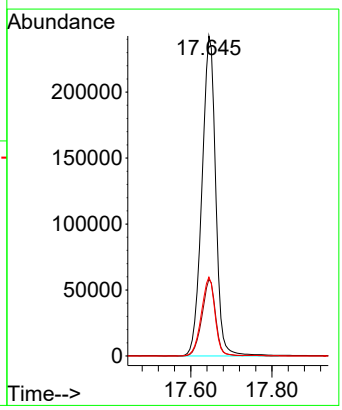
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 40.584 ng
RT: 17.645 min Scan# 2627
Delta R.T. 0.000 min
Lab File: BF143097.D
Acq: 15 Jul 2025 15:05

Tgt Ion:276 Resp: 569850

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	24.7	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143098.D
Acq On : 15 Jul 2025 15:35
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 17:41:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	119035	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	456501	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	223126	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	354075	20.000	ng	0.00
76) Chrysene-d12	14.127	240	183692	20.000	ng	0.00
86) Perylene-d12	15.633	264	221502	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.593	112	776953	103.124	ng	0.00
7) Phenol-d6	6.587	99	978105	103.280	ng	0.00
23) Nitrobenzene-d5	7.528	82	911721	112.035	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	227678	114.439	ng	0.00
45) 2-Fluorobiphenyl	9.328	172	1628659	97.028	ng	0.00
79) Terphenyl-d14	13.075	244	1271626	101.195	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.811	88	196652	52.435	ng	99
3) Pyridine	3.581	79	500208	52.670	ng	99
4) n-Nitrosodimethylamine	3.528	42	261539	53.153	ng	100
6) Aniline	6.628	93	699680	52.465	ng	100
8) 2-Chlorophenol	6.751	128	405741	53.601	ng	100
9) Benzaldehyde	6.516	77	431994	59.864	ng	98
10) Phenol	6.598	94	529842m	51.680	ng	
11) bis(2-Chloroethyl)ether	6.698	93	408091	51.417	ng	98
12) 1,3-Dichlorobenzene	6.910	146	437876	51.203	ng	99
13) 1,4-Dichlorobenzene	6.987	146	441012	51.260	ng	100
14) 1,2-Dichlorobenzene	7.140	146	421724	51.401	ng	98
15) Benzyl Alcohol	7.104	79	373560	53.234	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.240	45	748892	51.187	ng	100
17) 2-Methylphenol	7.210	107	342357	52.409	ng	99
18) Hexachloroethane	7.487	117	148761	53.114	ng	98
19) n-Nitroso-di-n-propyla...	7.381	70	302685	52.169	ng	99
20) 3+4-Methylphenols	7.363	107	422794	52.776	ng	93
22) Acetophenone	7.375	105	549763	49.959	ng	97
24) Nitrobenzene	7.545	77	439273	55.918	ng	100
25) Isophorone	7.787	82	819274	52.088	ng	100
26) 2-Nitrophenol	7.863	139	160386	50.837	ng	99
27) 2,4-Dimethylphenol	7.893	122	379432	51.976	ng	100
28) bis(2-Chloroethoxy)met...	7.993	93	483608	50.704	ng	99
29) 2,4-Dichlorophenol	8.098	162	319968	53.575	ng	99
30) 1,2,4-Trichlorobenzene	8.193	180	345389	50.958	ng	99
31) Naphthalene	8.275	128	1126659	49.700	ng	100
32) Benzoic acid	7.998	122	180966	49.535	ng	98
33) 4-Chloroaniline	8.310	127	467074	51.237	ng	99
34) Hexachlorobutadiene	8.392	225	207797	51.263	ng	98
35) Caprolactam	8.681	113	99144	53.162	ng	96
36) 4-Chloro-3-methylphenol	8.787	107	350906	52.746	ng	98
37) 2-Methylnaphthalene	8.963	142	681726	50.410	ng	99
38) 1-Methylnaphthalene	9.063	142	701548	50.016	ng	100
40) 1,2,4,5-Tetrachloroben...	9.128	216	335206	51.551	ng	100
41) Hexachlorocyclopentadiene	9.122	237	198811	55.147	ng	98
43) 2,4,6-Trichlorophenol	9.234	196	223131	55.226	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143098.D
Acq On : 15 Jul 2025 15:35
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 15 17:41:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.269	196	232905	54.977	ng		99
46) 1,1'-Biphenyl	9.428	154	897834	50.458	ng		100
47) 2-Chloronaphthalene	9.451	162	666760	51.007	ng		100
48) 2-Nitroaniline	9.539	65	207291	52.775	ng		98
49) Acenaphthylene	9.869	152	1109586	50.940	ng		99
50) Dimethylphthalate	9.722	163	726121	51.728	ng		100
51) 2,6-Dinitrotoluene	9.781	165	146385	52.497	ng		92
52) Acenaphthene	10.039	154	651291	50.669	ng		100
53) 3-Nitroaniline	9.945	138	177602	58.553	ng		99
54) 2,4-Dinitrophenol	10.051	184	47800	51.931	ng	#	1
55) Dibenzofuran	10.210	168	964545	50.344	ng		100
56) 4-Nitrophenol	10.092	139	133073	55.203	ng		98
57) 2,4-Dinitrotoluene	10.181	165	181610	52.116	ng		99
58) Fluorene	10.557	166	716173	49.859	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.322	232	189211	56.202	ng		98
60) Diethylphthalate	10.422	149	702995	51.909	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	348876	50.675	ng		99
62) 4-Nitroaniline	10.557	138	150470	57.045	ng		99
63) Azobenzene	10.704	77	770603	51.451	ng		99
65) 4,6-Dinitro-2-methylph...	10.592	198	70324	51.847	ng		92
66) n-Nitrosodiphenylamine	10.663	169	634539	51.019	ng		100
67) 4-Bromophenyl-phenylether	11.034	248	211371	52.494	ng		99
68) Hexachlorobenzene	11.104	284	221245	51.785	ng		98
69) Atrazine	11.181	200	172972	54.359	ng		98
70) Pentachlorophenol	11.292	266	131545	56.120	ng		99
71) Phenanthrene	11.516	178	963568	50.425	ng		100
72) Anthracene	11.569	178	979118	50.953	ng		99
73) Carbazole	11.716	167	883827	51.340	ng		100
74) Di-n-butylphthalate	12.051	149	870362	55.079	ng		100
75) Fluoranthene	12.704	202	883558	50.852	ng		100
77) Benzidine	12.816	184	309313	49.425	ng		99
78) Pyrene	12.933	202	880826	51.681	ng		99
80) Butylbenzylphthalate	13.545	149	176615	51.324	ng		96
81) Benzo(a)anthracene	14.122	228	644353	52.641	ng		99
82) 3,3'-Dichlorobenzidine	14.080	252	196472	55.273	ng		100
83) Chrysene	14.157	228	583302	51.740	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	265225	51.119	ng		99
85) Di-n-octyl phthalate	14.727	149	492840	50.100	ng		99
87) Indeno(1,2,3-cd)pyrene	17.180	276	896872	54.440	ng		100
88) Benzo(b)fluoranthene	15.192	252	718106	56.204	ng		100
89) Benzo(k)fluoranthene	15.221	252	602261	49.410	ng		100
90) Benzo(a)pyrene	15.574	252	662193	54.800	ng		99
91) Dibenzo(a,h)anthracene	17.204	278	736672	54.700	ng		99
92) Benzo(g,h,i)perylene	17.651	276	746789	54.390	ng		98

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

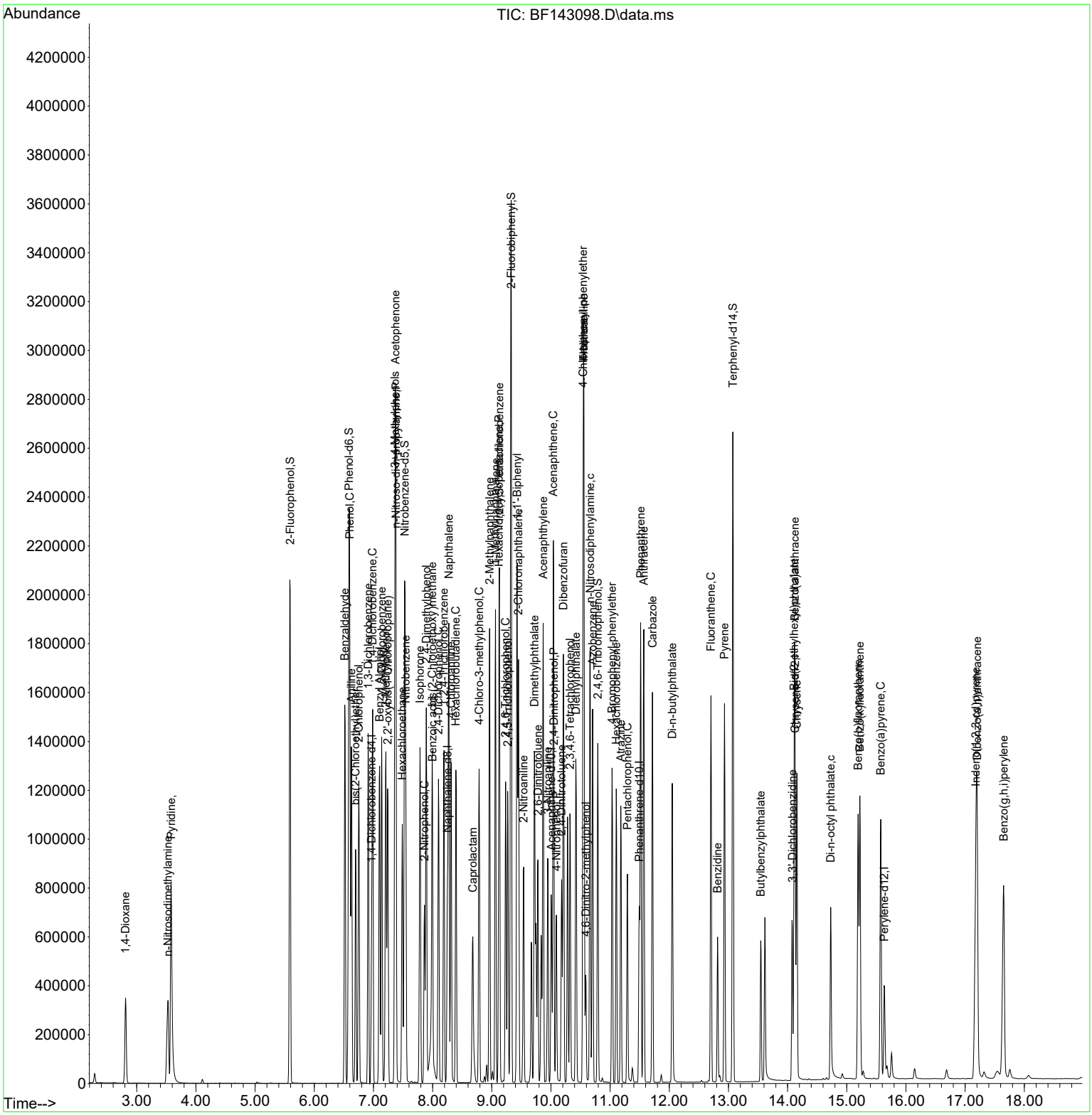
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143098.D
Acq On : 15 Jul 2025 15:35
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

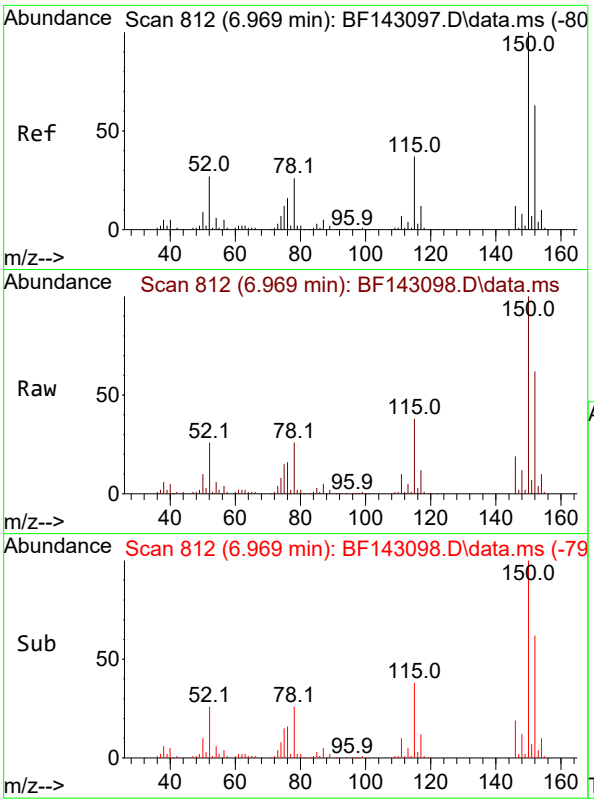
Quant Time: Jul 15 17:41:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

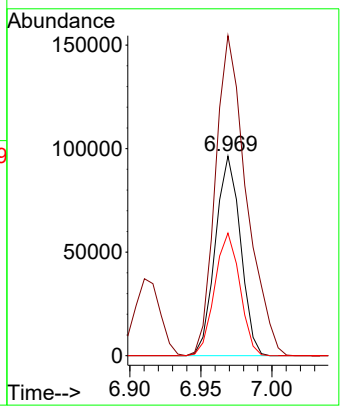




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:152 Resp: 11903

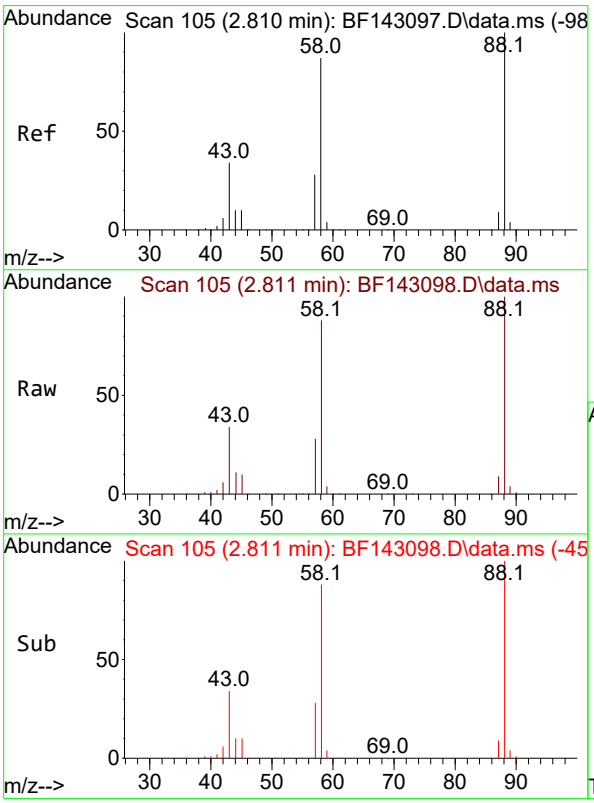
Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.5	189.7
115	61.5	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

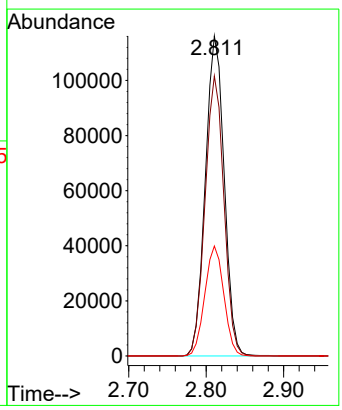
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

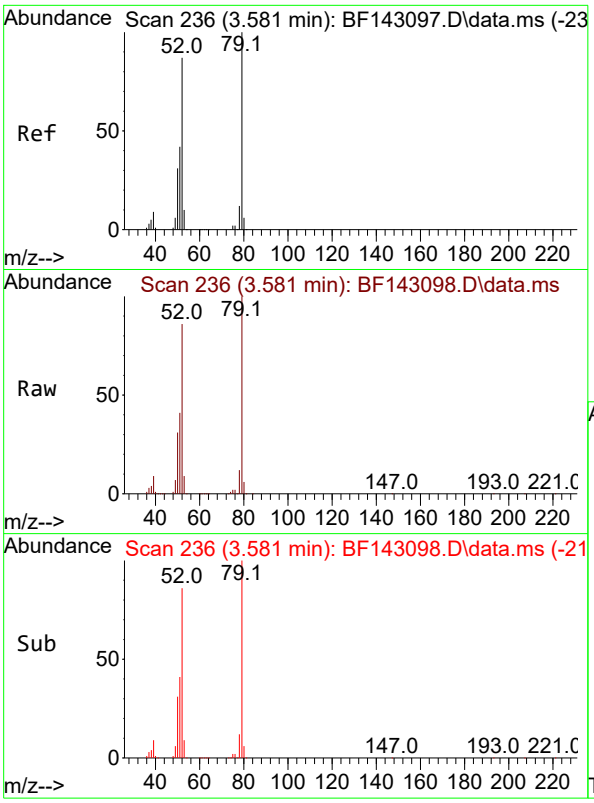


#2
1,4-Dioxane
Concen: 52.435 ng
RT: 2.811 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 88 Resp: 196652

Ion	Ratio	Lower	Upper
88	100		
58	87.3	70.5	105.7
43	34.6	27.3	40.9

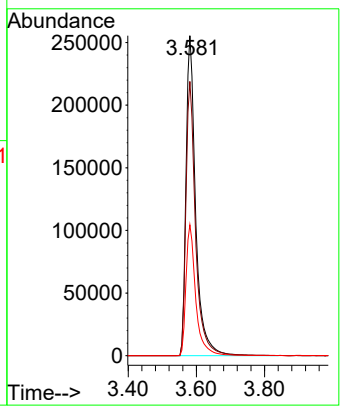




#3
Pyridine
Concen: 52.670 ng
RT: 3.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 79 Resp: 50020

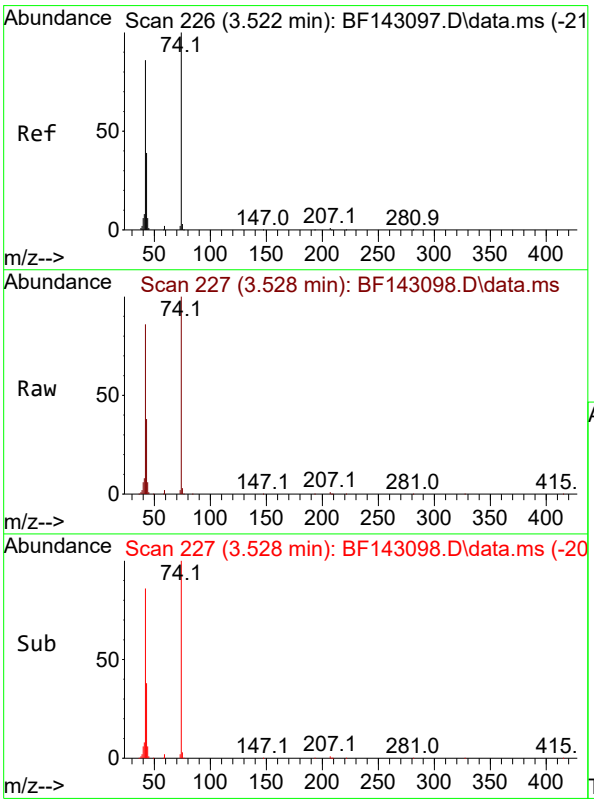
Ion	Ratio	Lower	Upper
79	100		
52	85.7	69.2	103.8
51	40.9	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

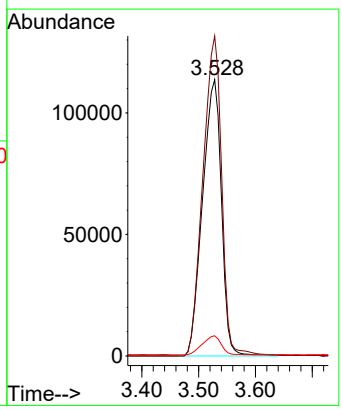
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

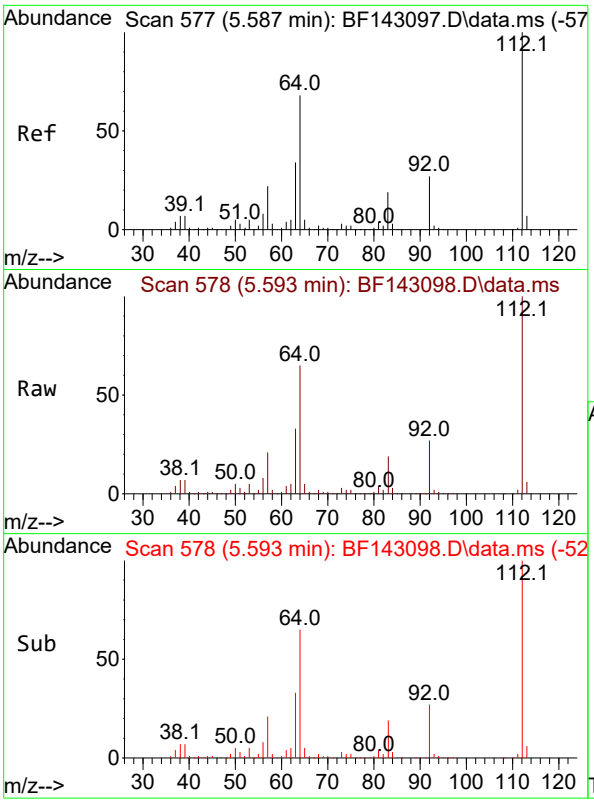


#4
n-Nitrosodimethylamine
Concen: 53.153 ng
RT: 3.528 min Scan# 227
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 42 Resp: 261539

Ion	Ratio	Lower	Upper
42	100		
74	115.8	92.8	139.2
44	7.3	5.8	8.6

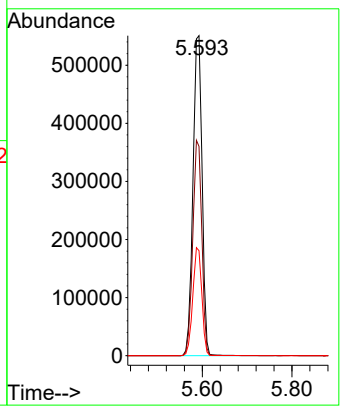




#5
2-Fluorophenol
Concen: 103.124 ng
RT: 5.593 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:112 Resp: 77695

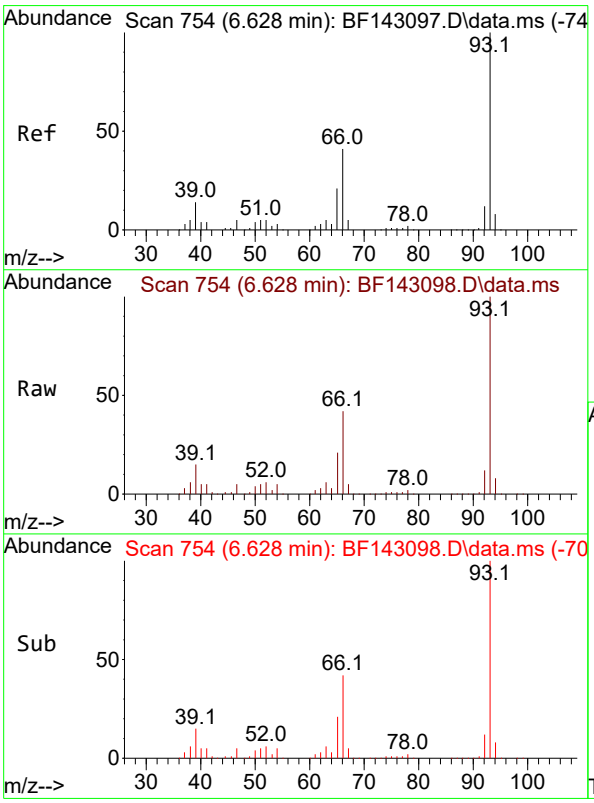
Ion	Ratio	Lower	Upper
112	100		
64	65.4	54.6	82.0
63	32.8	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

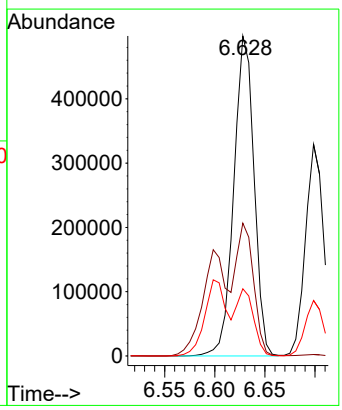
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

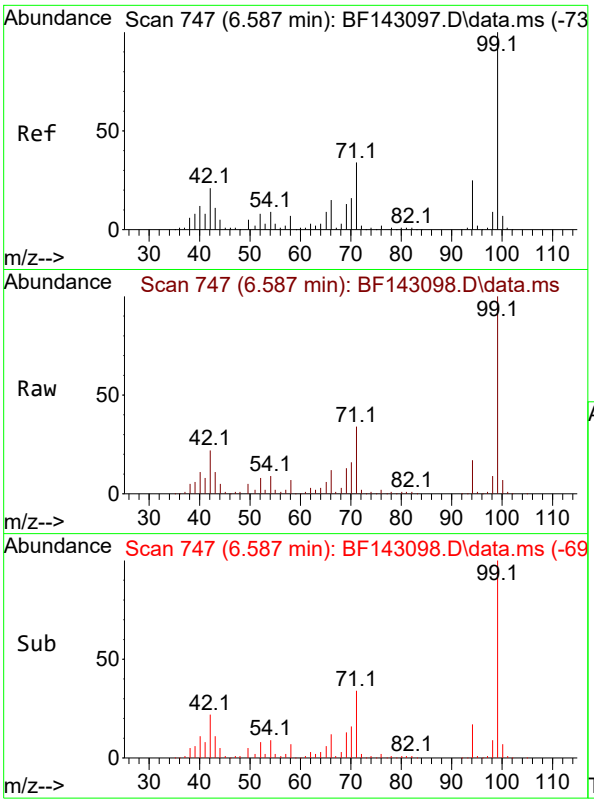


#6
Aniline
Concen: 52.465 ng
RT: 6.628 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 93 Resp: 699680

Ion	Ratio	Lower	Upper
93	100		
66	41.5	33.1	49.7
65	21.0	16.9	25.3

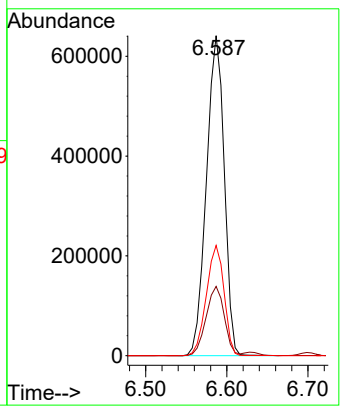




#7
Phenol-d6
Concen: 103.280 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 99 Resp: 97810

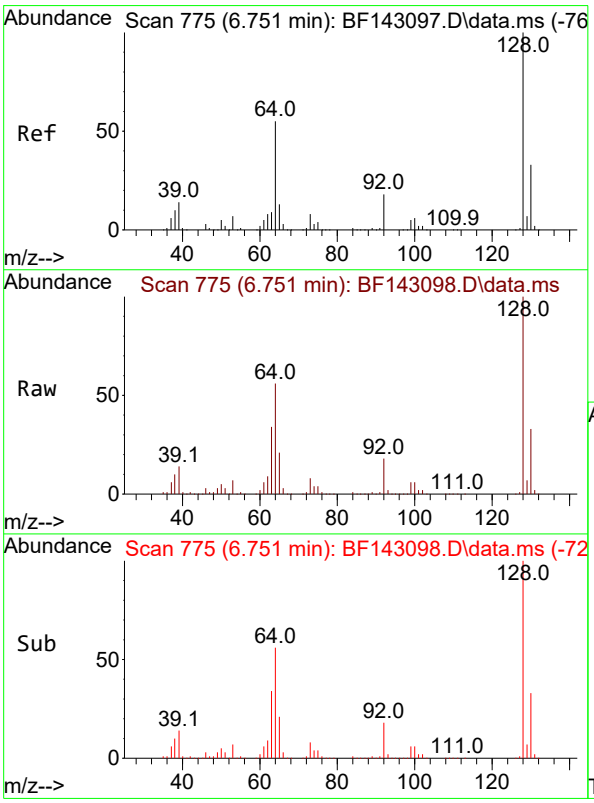
Ion	Ratio	Lower	Upper
99	100		
42	21.7	17.2	25.8
71	34.4	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

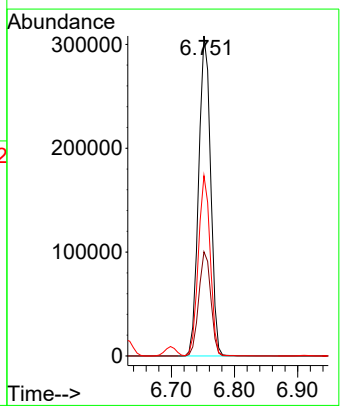
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

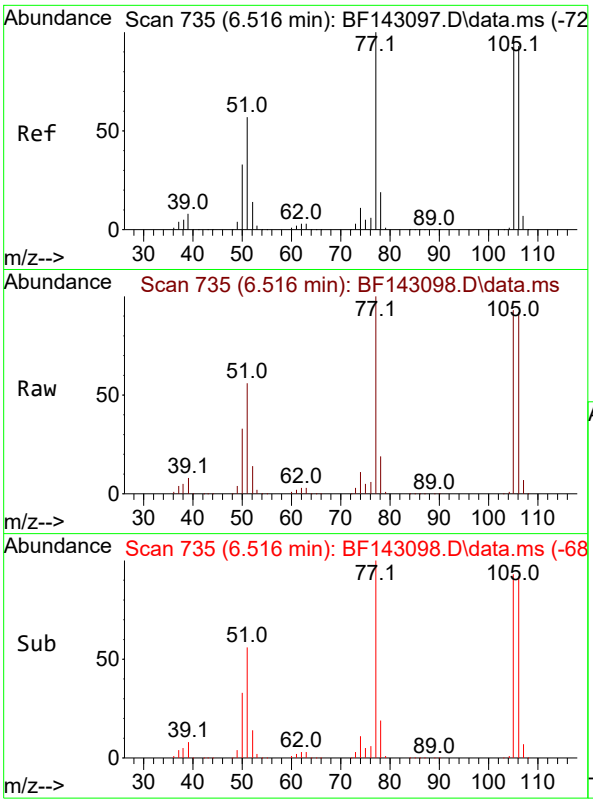


#8
2-Chlorophenol
Concen: 53.601 ng
RT: 6.751 min Scan# 775
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:128 Resp: 405741

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.8	52.8
64	56.3	36.1	76.1

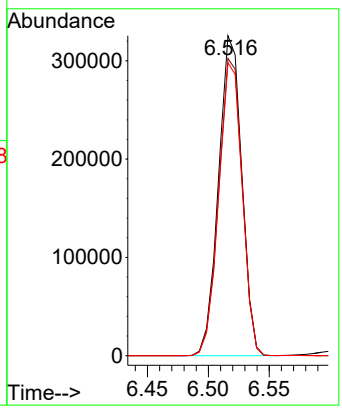




#9
Benzaldehyde
Concen: 59.864 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 77 Resp: 43199

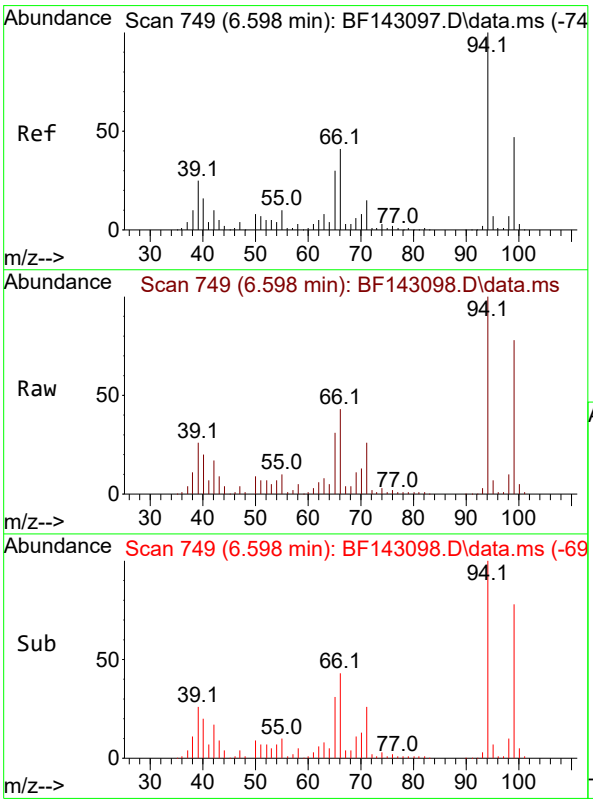
Ion	Ratio	Lower	Upper
77	100		
105	92.9	76.3	116.3
106	91.5	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

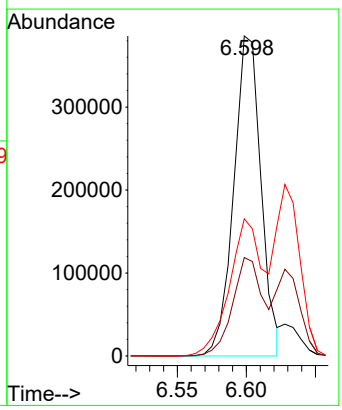
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

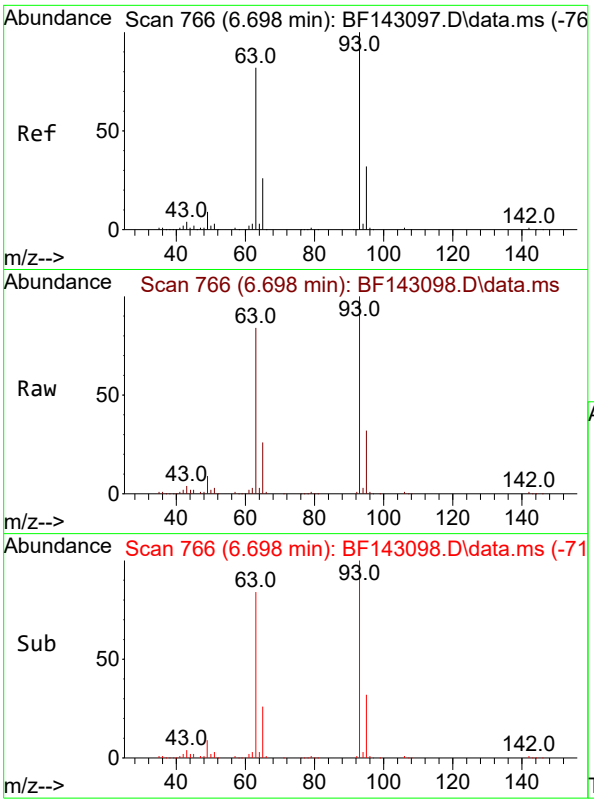


#10
Phenol
Concen: 51.680 ng m
RT: 6.598 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 94 Resp: 529842

Ion	Ratio	Lower	Upper
94	100		
65	30.7	9.8	49.8
66	42.9	20.5	60.5

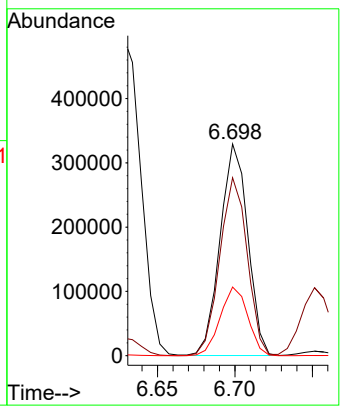




#11
bis(2-Chloroethyl)ether
Concen: 51.417 ng
RT: 6.698 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 93 Resp: 40809

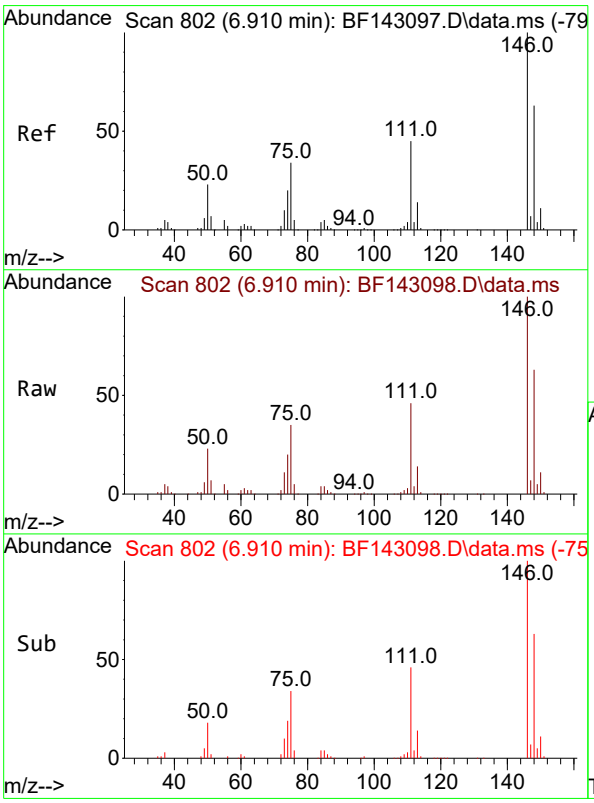
Ion	Ratio	Lower	Upper
93	100		
63	84.0	61.9	101.9
95	32.4	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

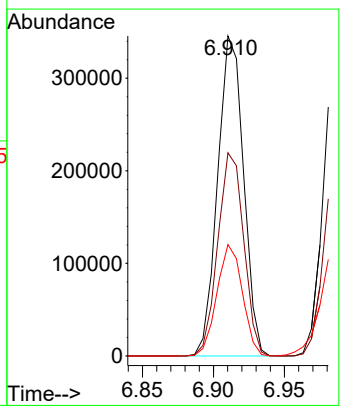
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

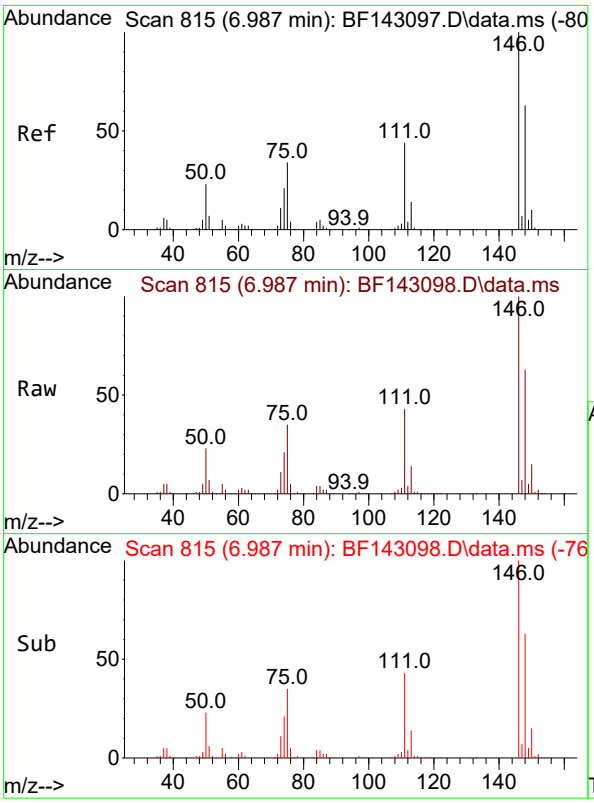


#12
1,3-Dichlorobenzene
Concen: 51.203 ng
RT: 6.910 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:146 Resp: 437876

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.1	75.1
75	34.8	27.4	41.0

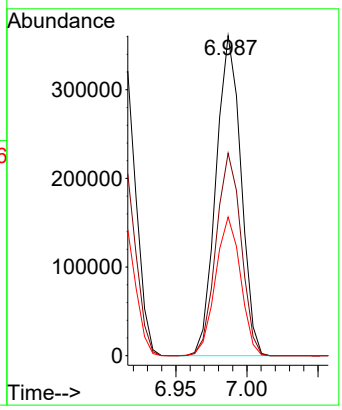




#13
1,4-Dichlorobenzene
Concen: 51.260 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:146 Resp: 44101

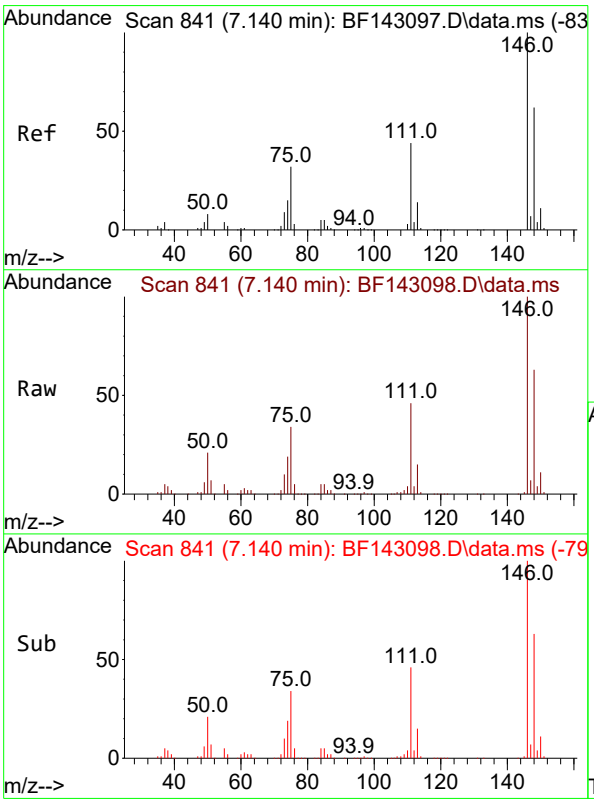
Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.6	76.0
111	43.3	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

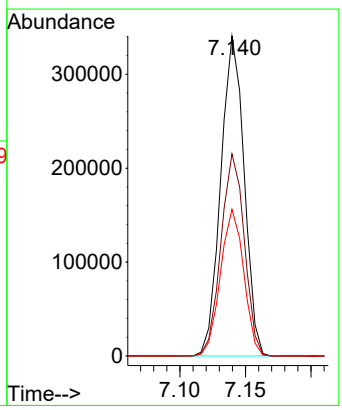
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

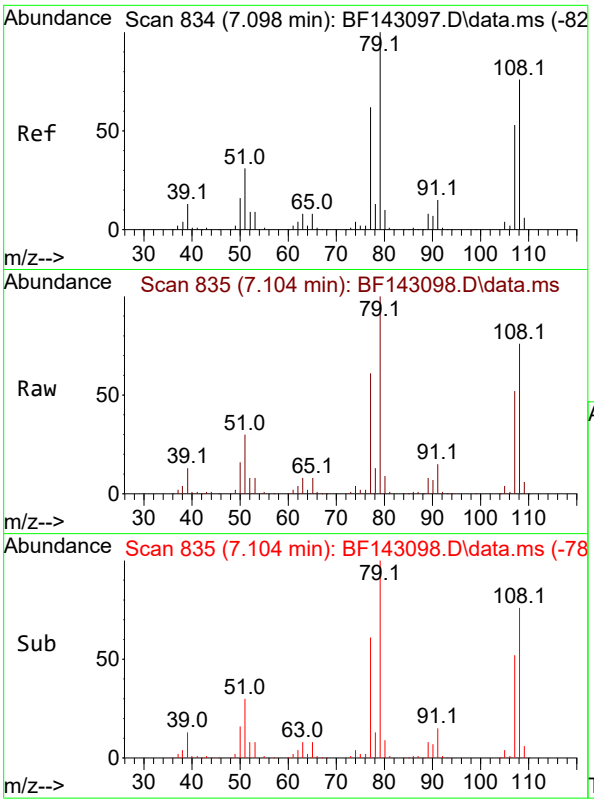


#14
1,2-Dichlorobenzene
Concen: 51.401 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:146 Resp: 421724

Ion	Ratio	Lower	Upper
146	100		
148	63.1	49.8	74.6
111	45.8	35.4	53.0

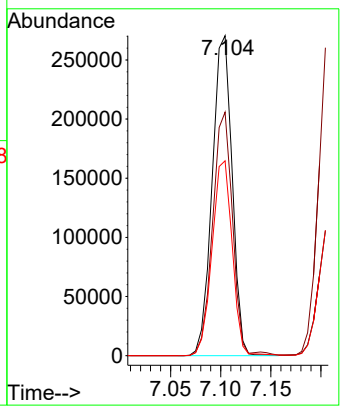




#15
Benzyl Alcohol
Concen: 53.234 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 79 Resp: 37356

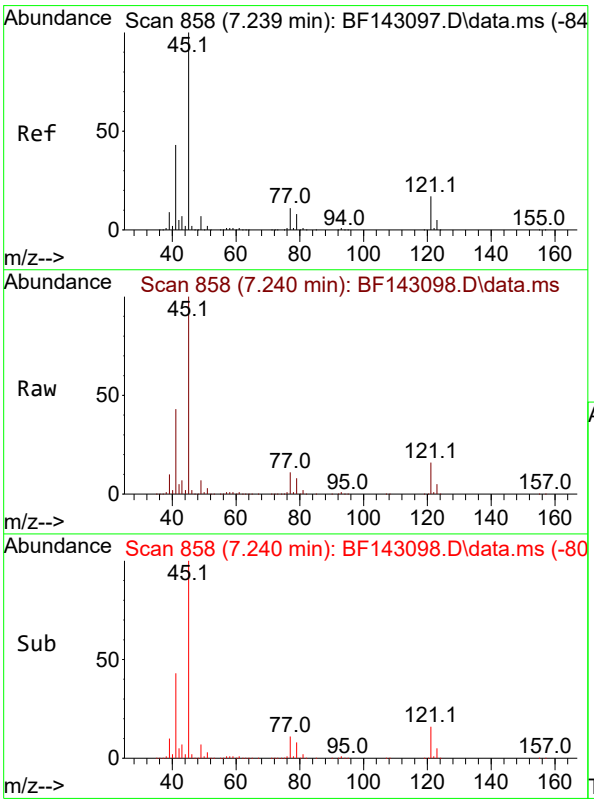
Ion	Ratio	Lower	Upper
79	100		
108	76.1	61.1	91.7
77	60.9	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

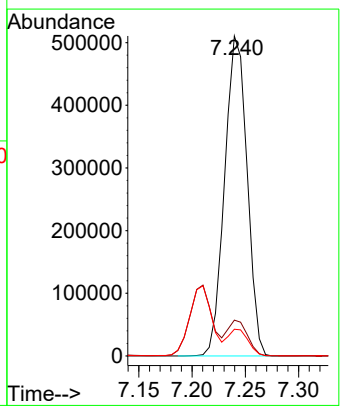
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

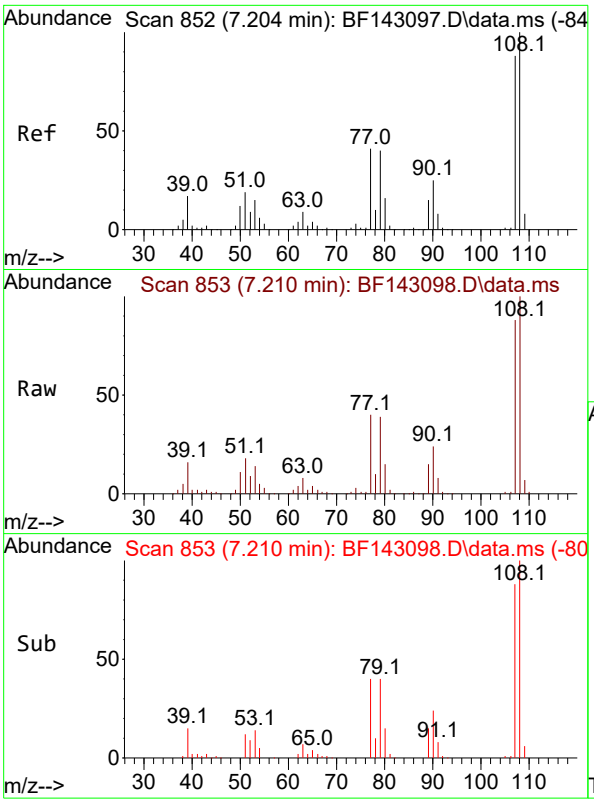


#16
2,2'-oxybis(1-Chloropropane)
Concen: 51.187 ng
RT: 7.240 min Scan# 858
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 45 Resp: 748892

Ion	Ratio	Lower	Upper
45	100		
77	11.2	0.0	31.1
79	8.4	0.0	28.4

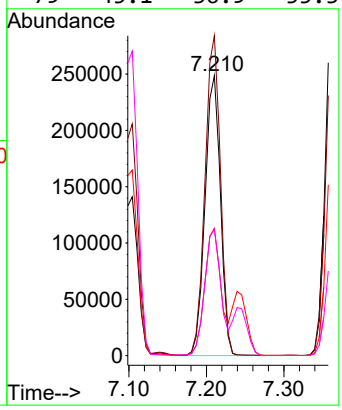




#17
2-Methylphenol
Concen: 52.409 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:107 Resp: 34235

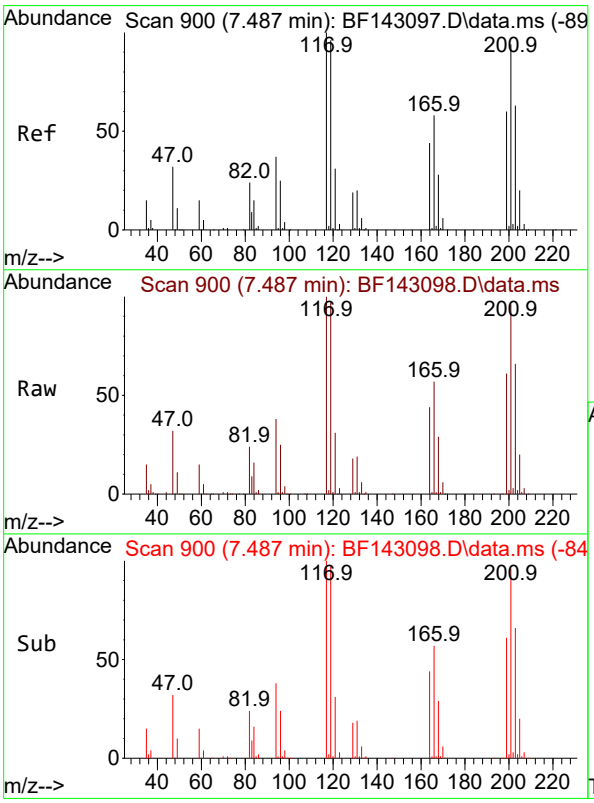
Ion	Ratio	Lower	Upper
107	100		
108	114.3	90.9	136.3
77	45.5	37.5	56.3
79	45.1	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

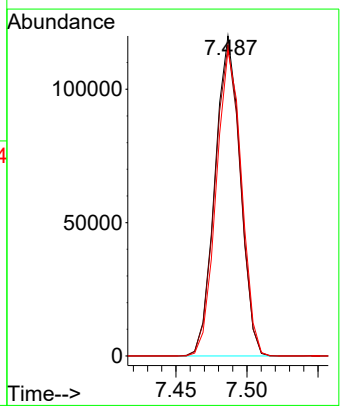
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

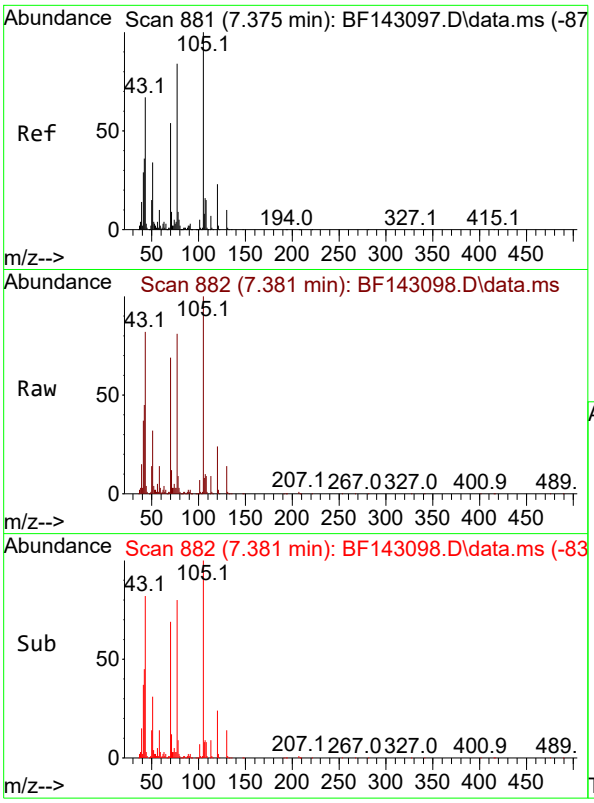


#18
Hexachloroethane
Concen: 53.114 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:117 Resp: 148761

Ion	Ratio	Lower	Upper
117	100		
119	97.2	76.7	115.1
201	95.5	75.0	112.4

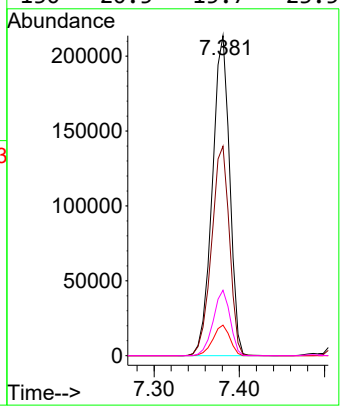




#19
n-Nitroso-di-n-propylamine
Concen: 52.169 ng
RT: 7.381 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 70 Resp: 30268

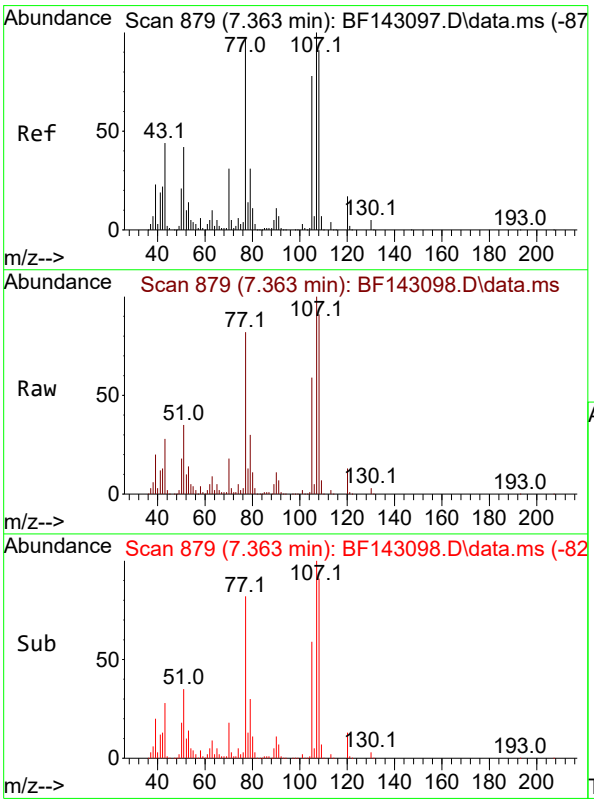
Ion	Ratio	Lower	Upper
70	100		
42	65.5	53.2	79.8
101	9.6	7.5	11.3
130	20.5	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

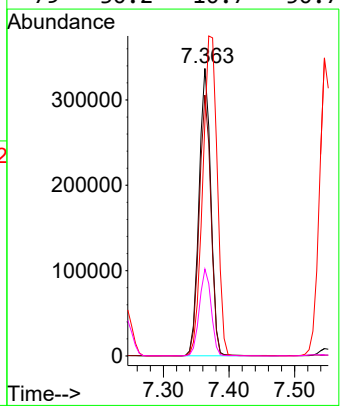
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

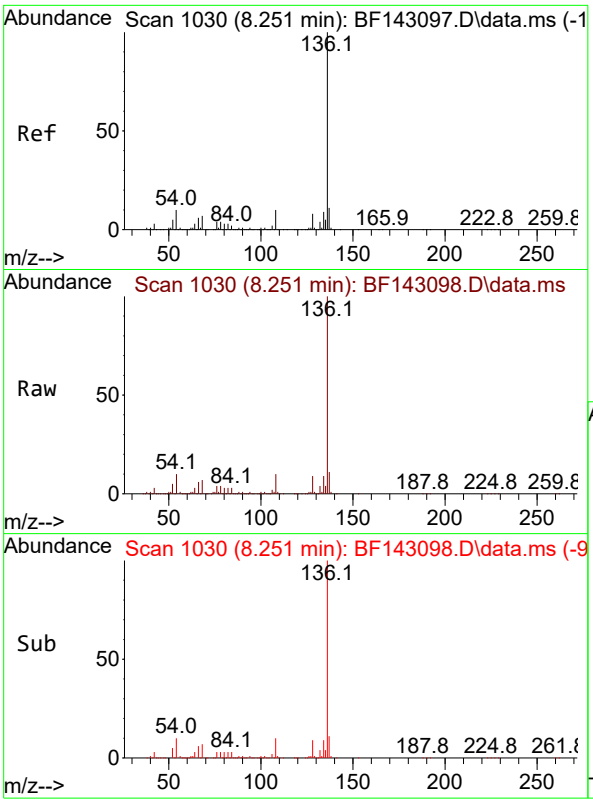


#20
3+4-Methylphenols
Concen: 52.776 ng
RT: 7.363 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:107 Resp: 422794

Ion	Ratio	Lower	Upper
107	100		
108	90.7	71.3	111.3
77	81.5	77.2	117.2
79	30.2	10.7	50.7

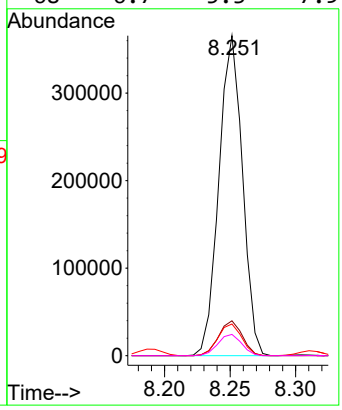




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:136 Resp: 45650

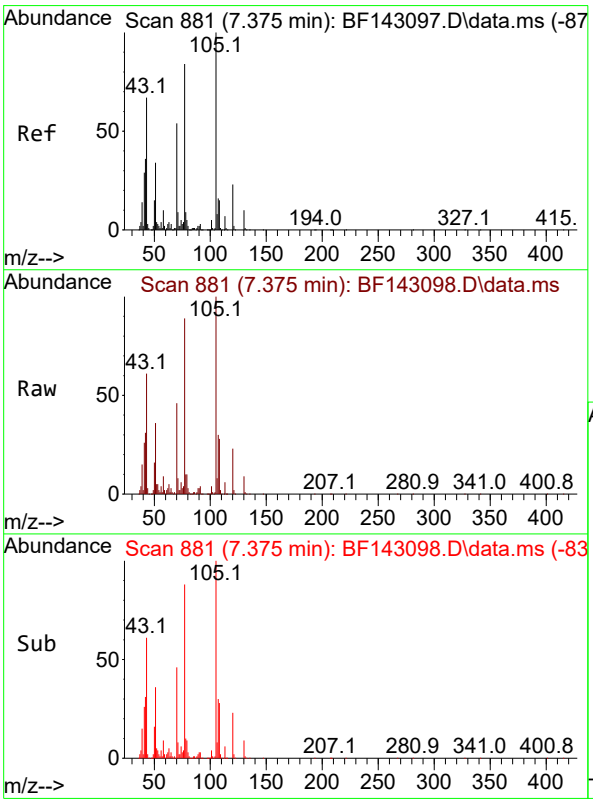
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	9.9	8.3	12.5
68	6.7	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

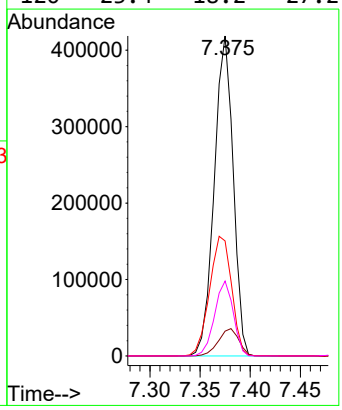
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

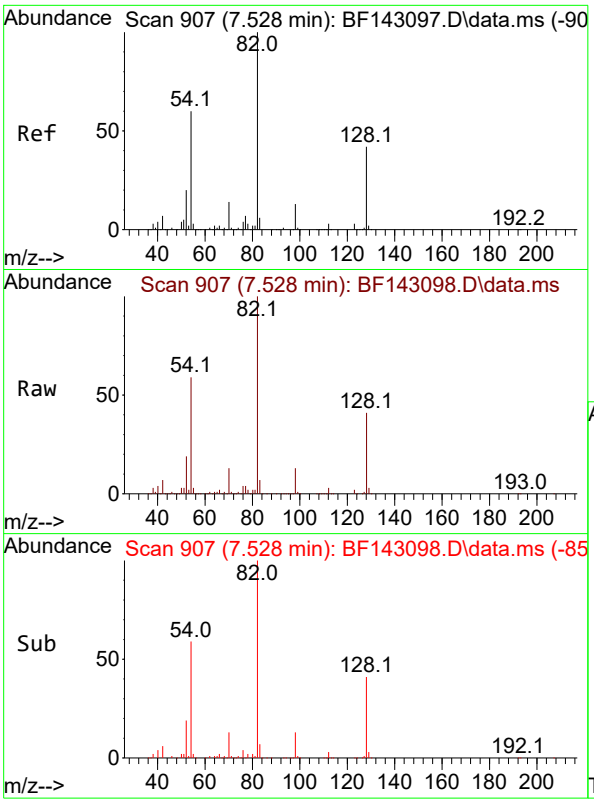


#22
Acetophenone
Concen: 49.959 ng
RT: 7.375 min Scan# 881
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:105 Resp: 549763

Ion	Ratio	Lower	Upper
105	100		
71	7.8	7.2	10.8
51	36.0	27.0	40.4
120	23.4	18.2	27.2

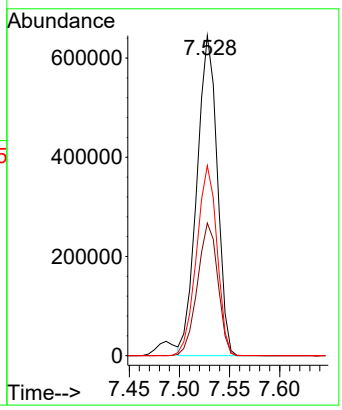




#23
Nitrobenzene-d5
Concen: 112.035 ng
RT: 7.528 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 82 Resp: 91172

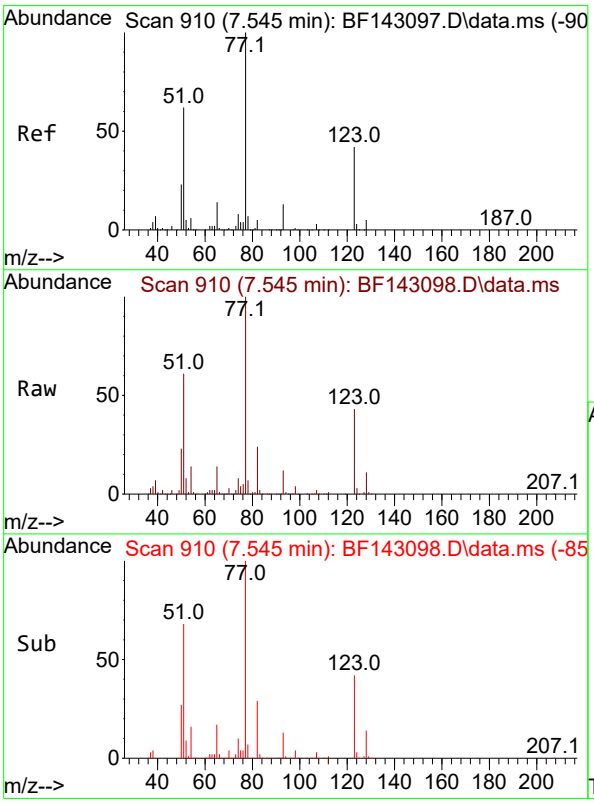
Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.3	49.9
54	59.4	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

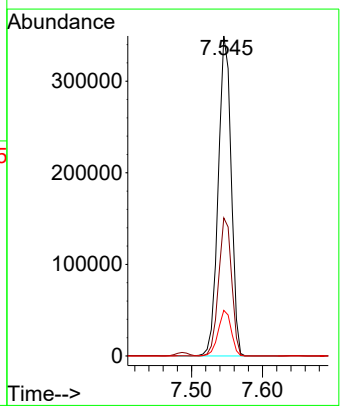
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

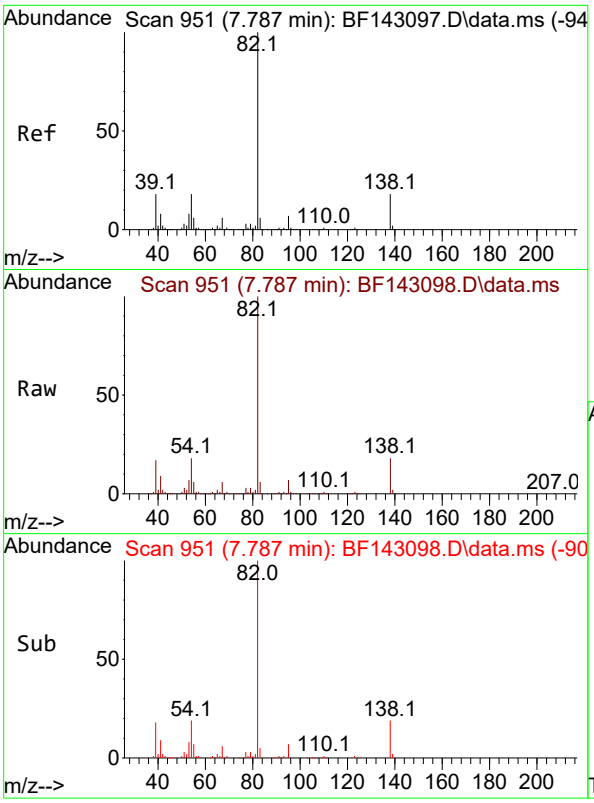


#24
Nitrobenzene
Concen: 55.918 ng
RT: 7.545 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 77 Resp: 439273

Ion	Ratio	Lower	Upper
77	100		
123	43.2	34.5	51.7
65	14.3	11.3	16.9

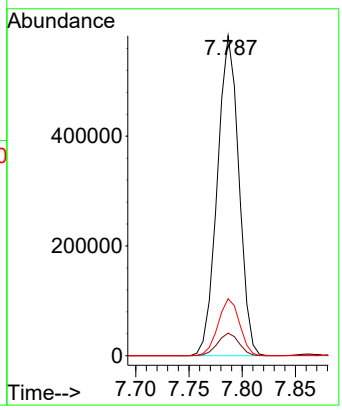




#25
Isophorone
Concen: 52.088 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 82 Resp: 81927

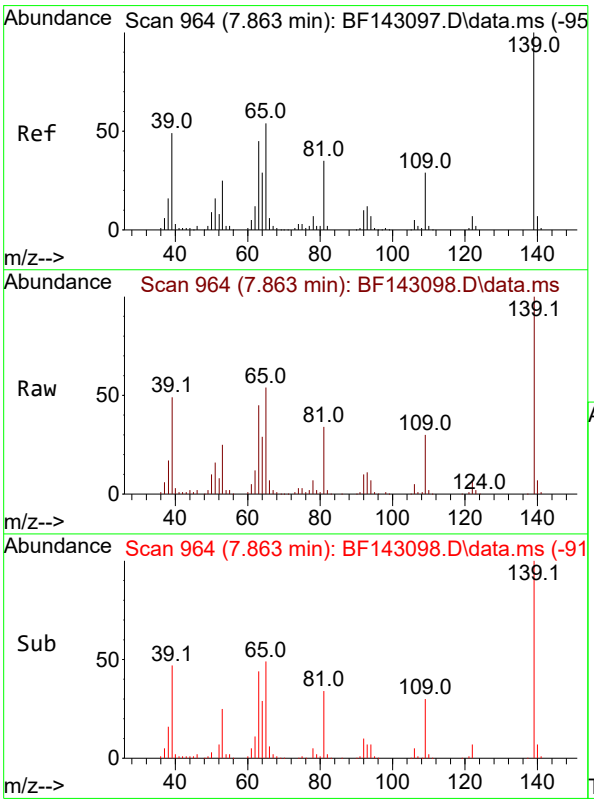
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	17.8	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

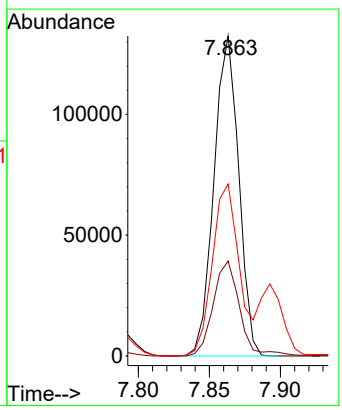
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

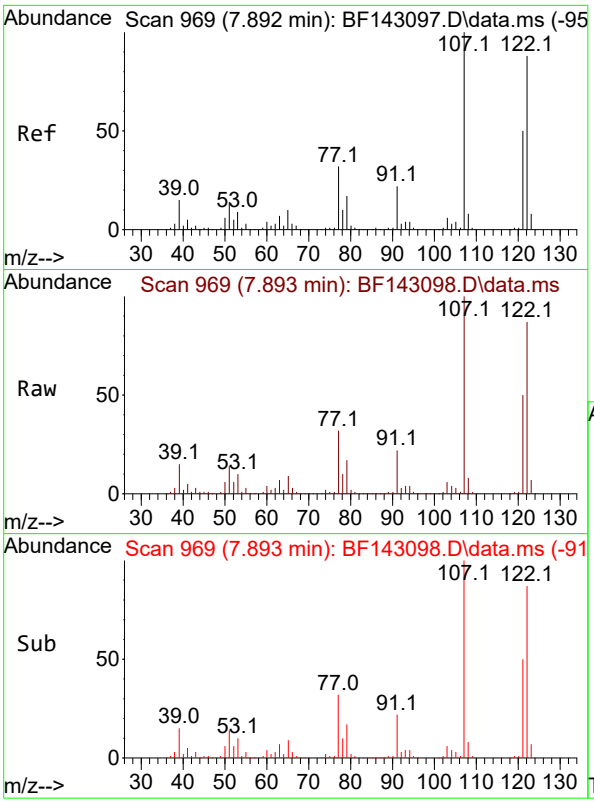


#26
2-Nitrophenol
Concen: 50.837 ng
RT: 7.863 min Scan# 964
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:139 Resp: 160386

Ion	Ratio	Lower	Upper
139	100		
109	29.7	23.4	35.0
65	53.7	43.4	65.2

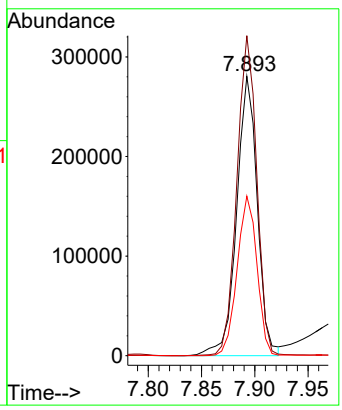




#27
2,4-Dimethylphenol
Concen: 51.976 ng
RT: 7.893 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:122 Resp: 37943

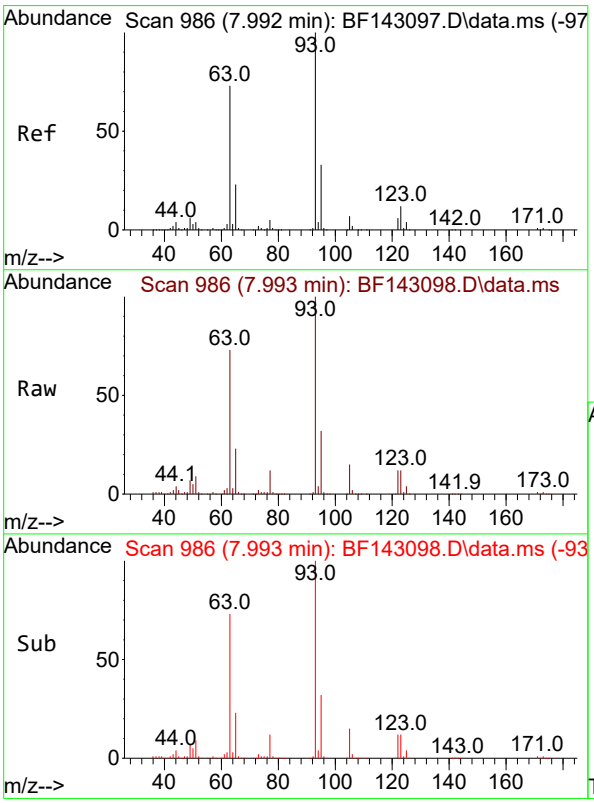
Ion	Ratio	Lower	Upper
122	100		
107	114.5	91.3	136.9
121	57.1	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

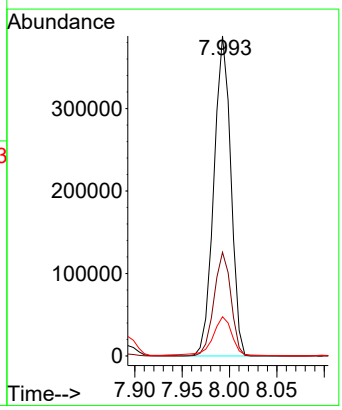
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

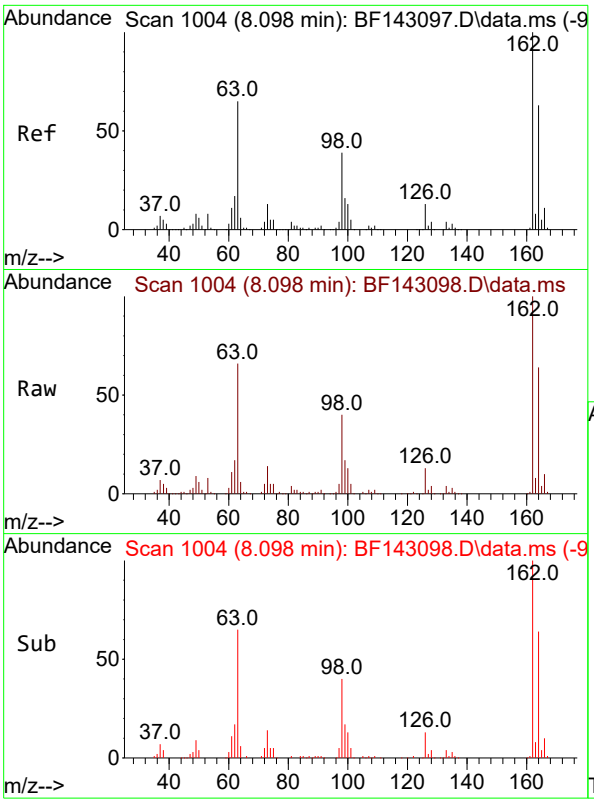


#28
bis(2-Chloroethoxy)methane
Concen: 50.704 ng
RT: 7.993 min Scan# 986
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 93 Resp: 483608

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.2	39.4
123	12.2	9.6	14.4





#29
2,4-Dichlorophenol
Concen: 53.575 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

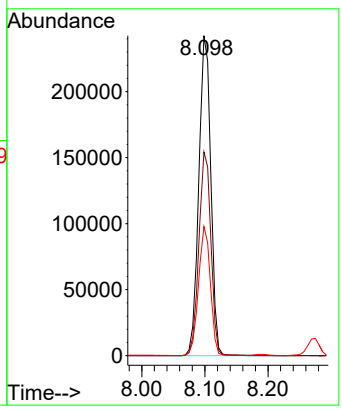
Tgt Ion:162 Resp: 31996

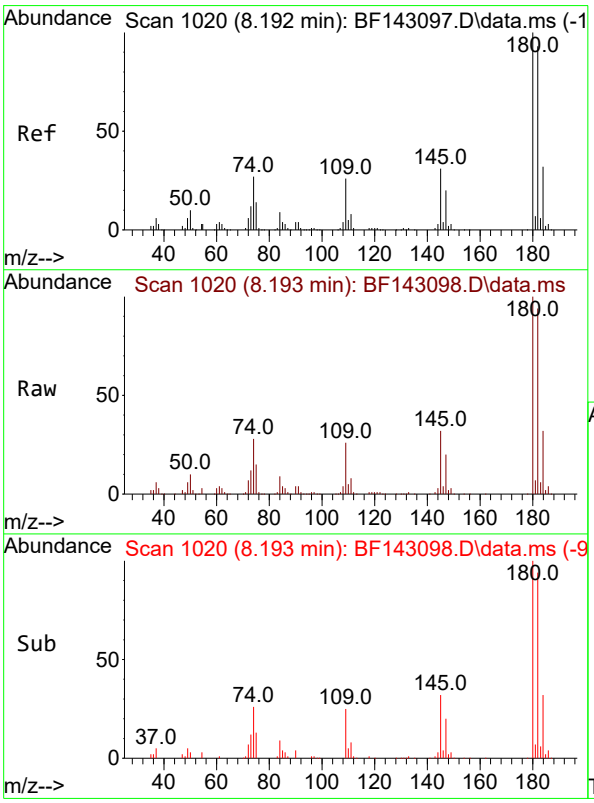
Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.1	83.1
98	40.4	19.2	59.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

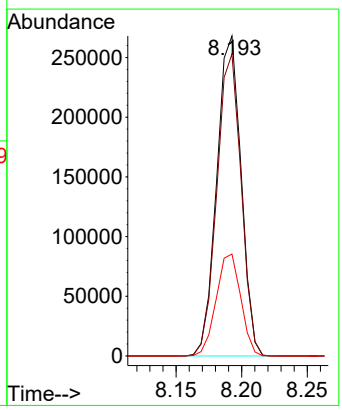


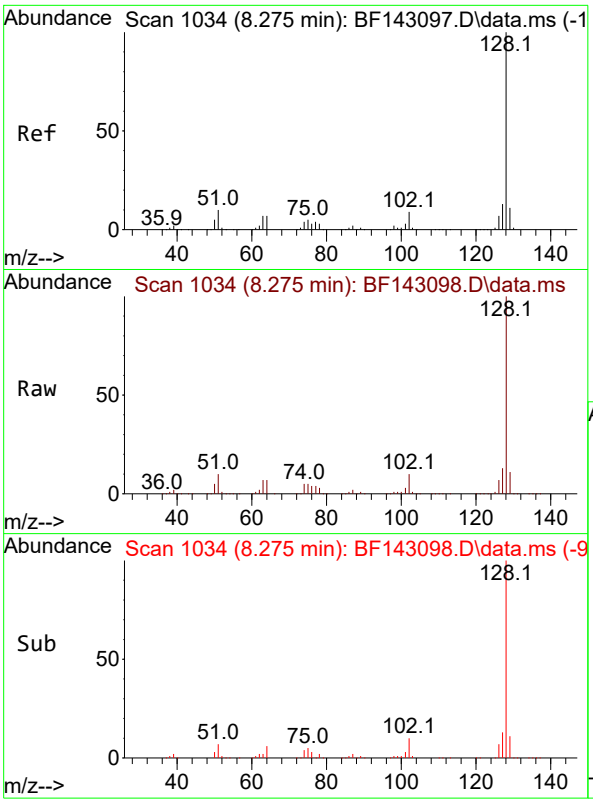


#30
1,2,4-Trichlorobenzene
Concen: 50.958 ng
RT: 8.193 min Scan# 1020
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:180 Resp: 345389

Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.7	112.1
145	31.8	24.5	36.7





#31
Naphthalene
Concen: 49.700 ng
RT: 8.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

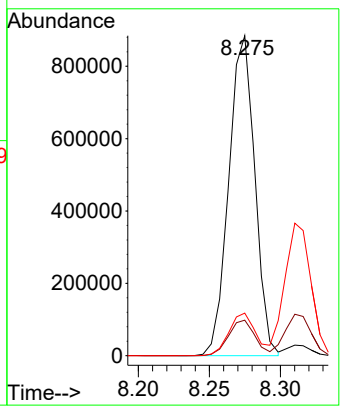
Tgt Ion:128 Resp: 112665

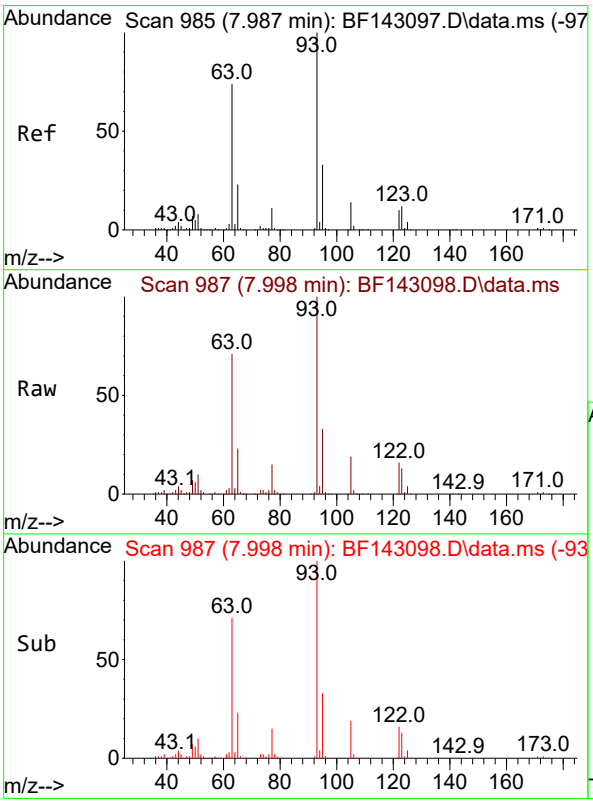
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.3	10.5	15.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

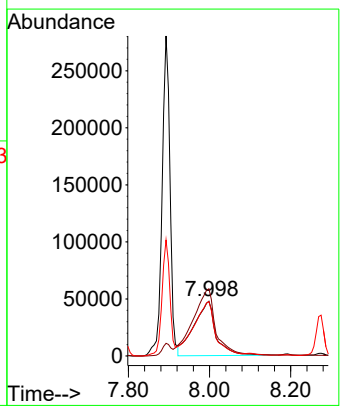


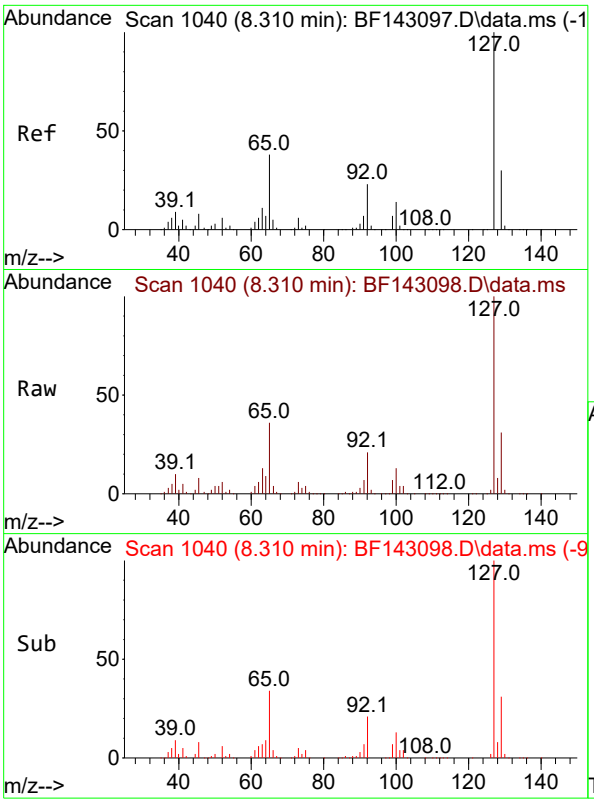


#32
Benzoic acid
Concen: 49.535 ng
RT: 7.998 min Scan# 987
Delta R.T. 0.011 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:122 Resp: 180966

Ion	Ratio	Lower	Upper
122	100		
105	122.8	105.4	145.4
77	99.4	78.6	118.6

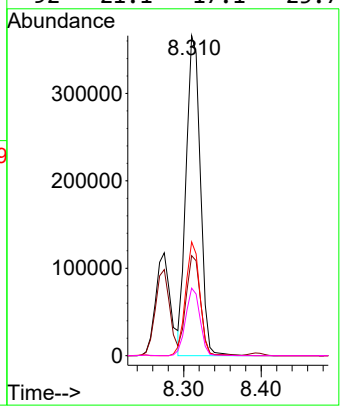




#33
4-Chloroaniline
Concen: 51.237 ng
RT: 8.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:127 Resp: 46707

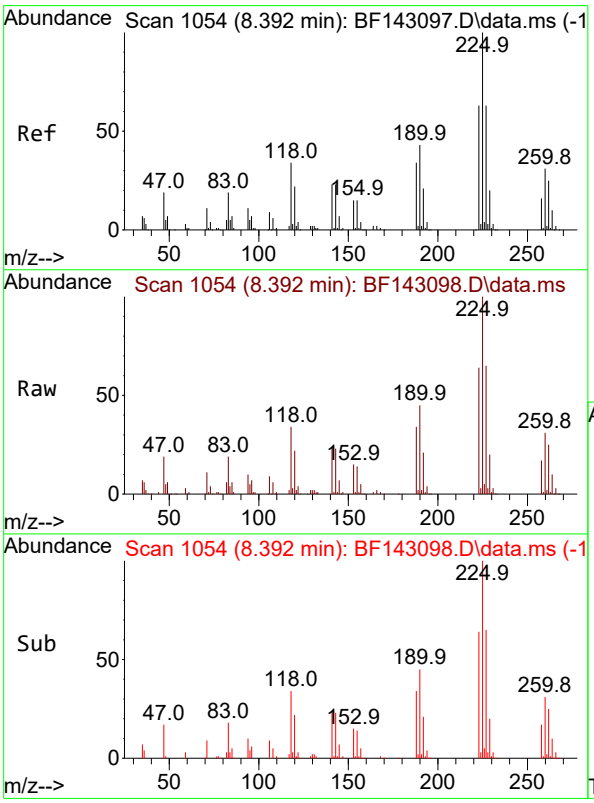
Ion	Ratio	Lower	Upper
127	100		
129	31.3	26.2	39.4
65	35.6	28.6	42.8
92	21.1	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

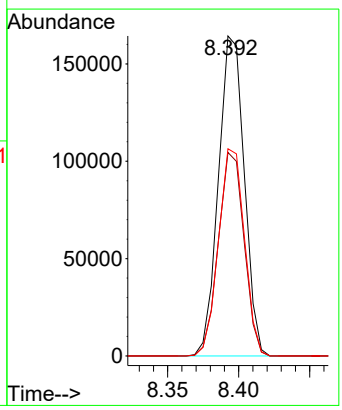
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

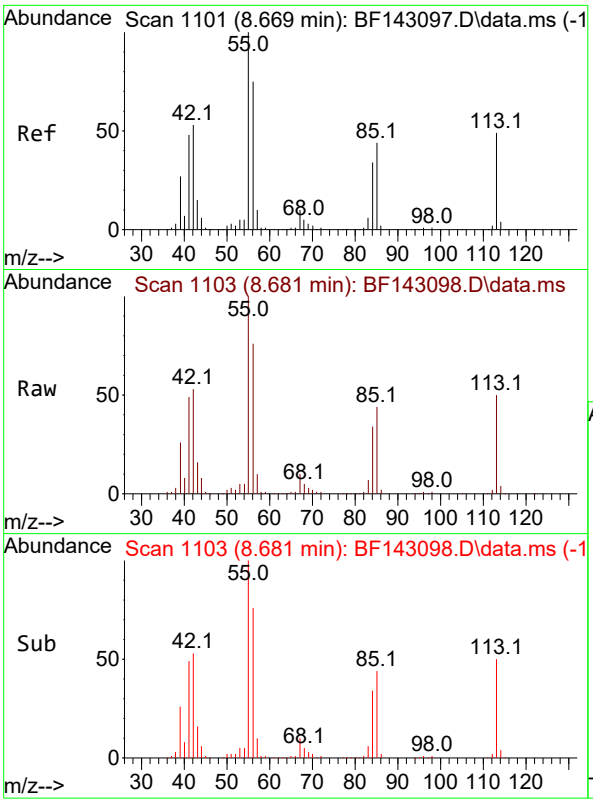


#34
Hexachlorobutadiene
Concen: 51.263 ng
RT: 8.392 min Scan# 1054
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:225 Resp: 207797

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.3	75.5
227	64.7	50.1	75.1

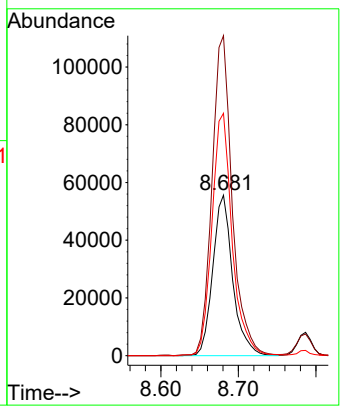




#35
Caprolactam
Concen: 53.162 ng
RT: 8.681 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:113 Resp: 9914

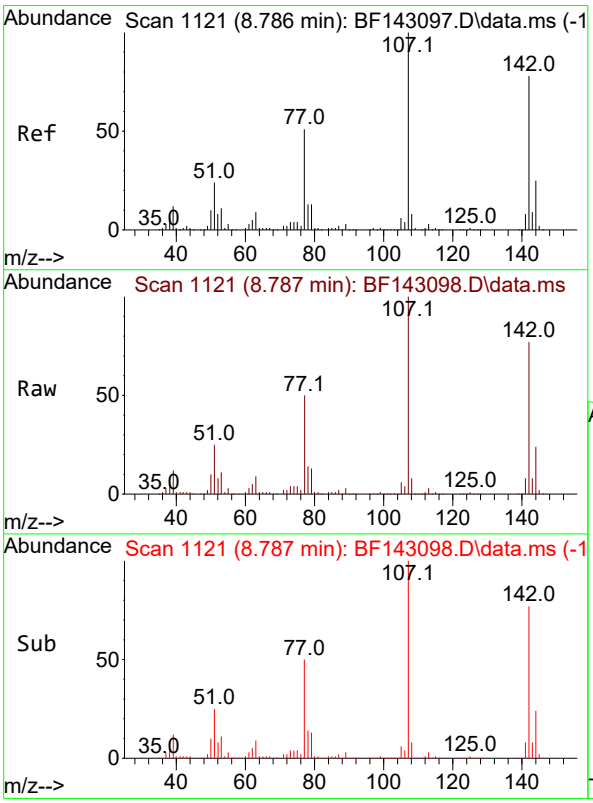
Ion	Ratio	Lower	Upper
113	100		
55	199.4	186.2	226.2
56	151.0	134.1	174.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

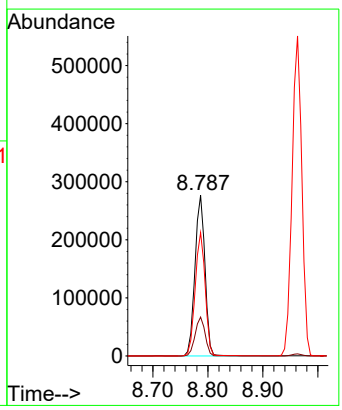
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

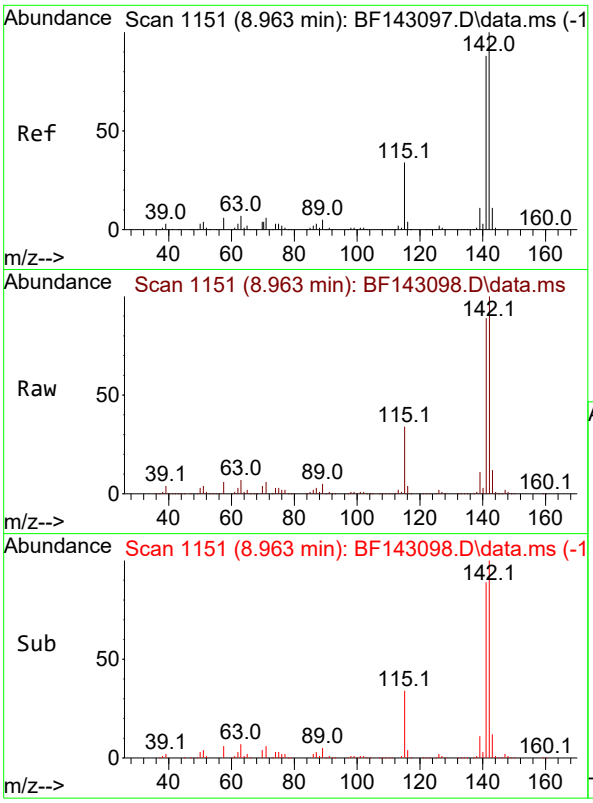


#36
4-Chloro-3-methylphenol
Concen: 52.746 ng
RT: 8.787 min Scan# 1121
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:107 Resp: 350906

Ion	Ratio	Lower	Upper
107	100		
144	24.2	20.2	30.2
142	76.8	62.4	93.6

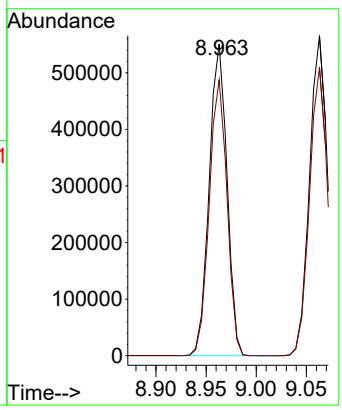




#37
2-Methylnaphthalene
Concen: 50.410 ng
RT: 8.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:142 Resp: 68172

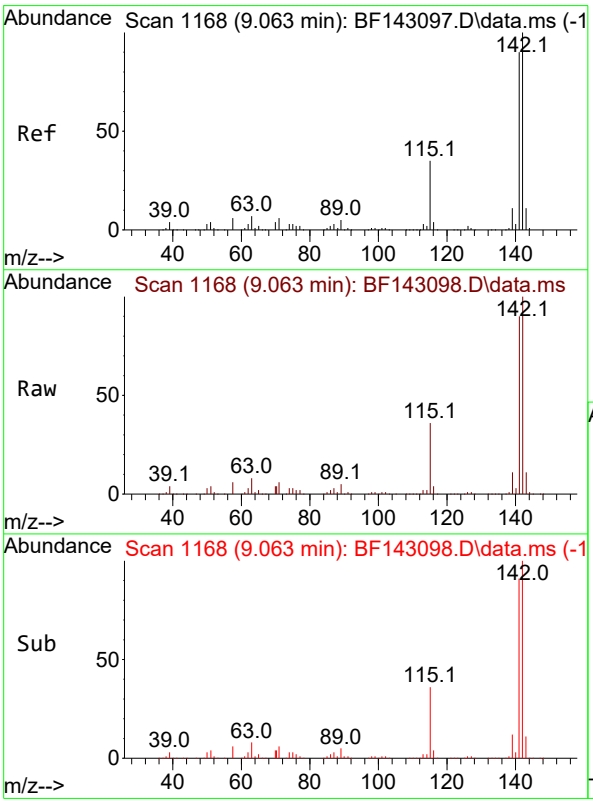
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.2	105.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

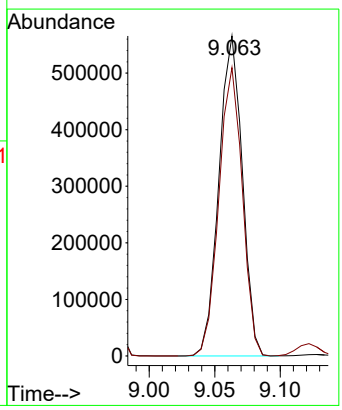
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

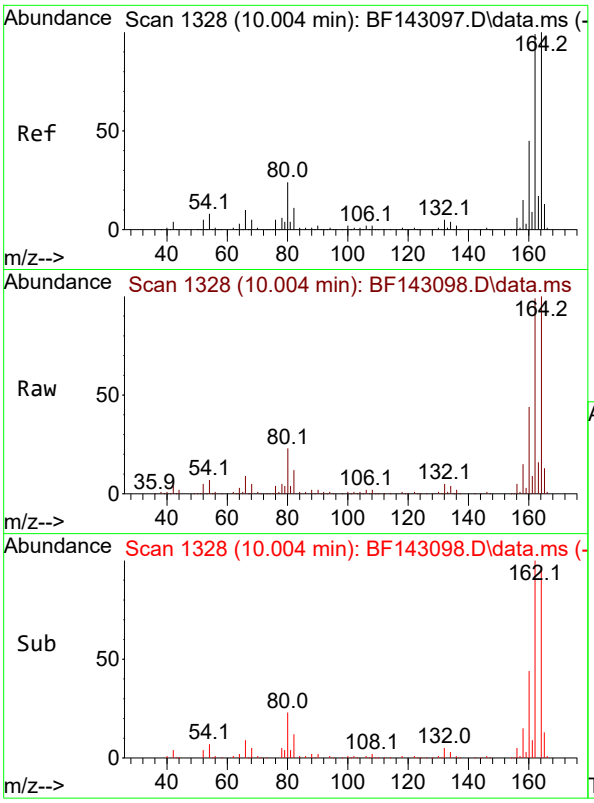


#38
1-Methylnaphthalene
Concen: 50.016 ng
RT: 9.063 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:142 Resp: 701548

Ion	Ratio	Lower	Upper
142	100		
141	90.1	72.2	108.4

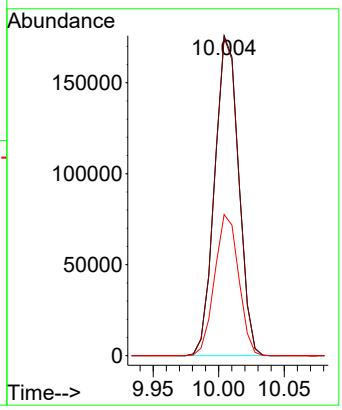




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:164 Resp: 22312

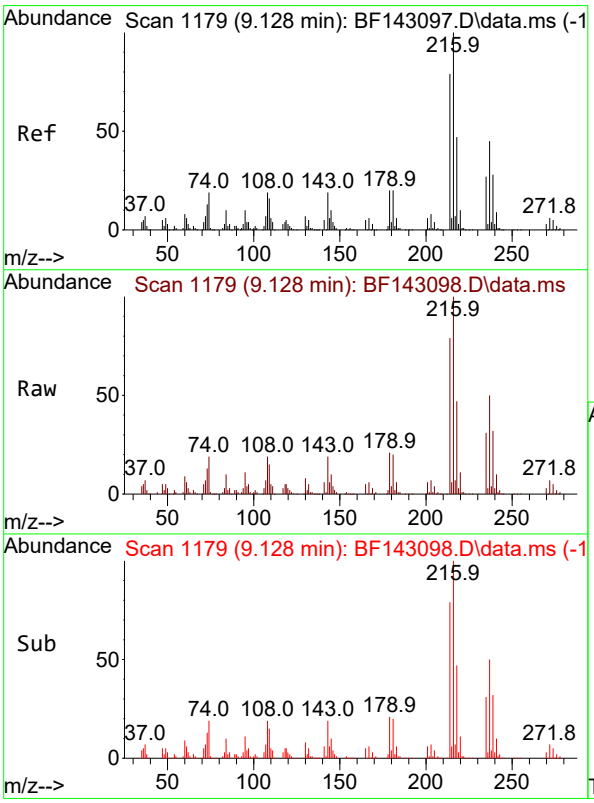
Ion	Ratio	Lower	Upper
164	100		
162	99.3	79.0	118.6
160	44.1	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

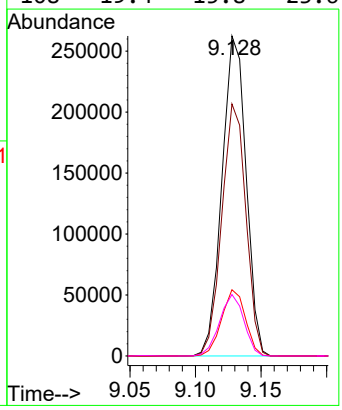
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

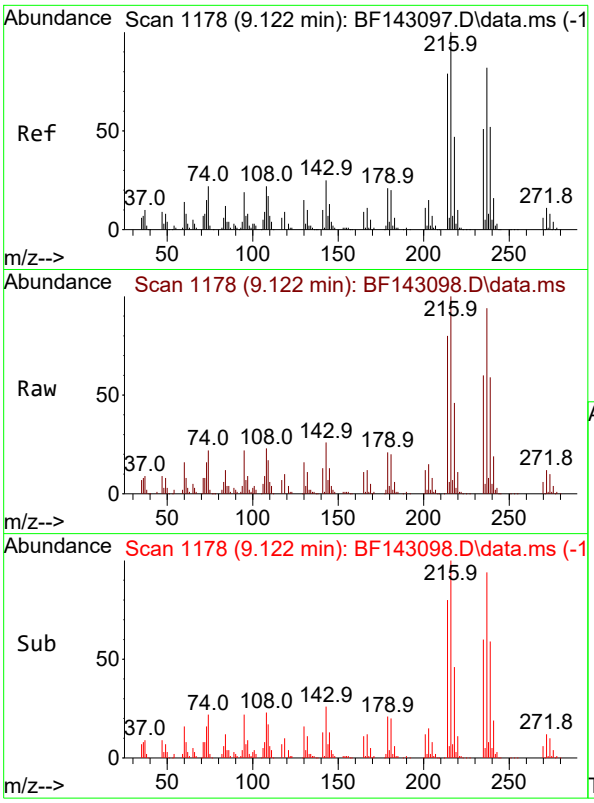


#40
1,2,4,5-Tetrachlorobenzene
Concen: 51.551 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:216 Resp: 335206

Ion	Ratio	Lower	Upper
216	100		
214	78.5	62.6	94.0
179	20.5	16.2	24.2
108	19.4	15.8	23.6





#41
Hexachlorocyclopentadiene
Concen: 55.147 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

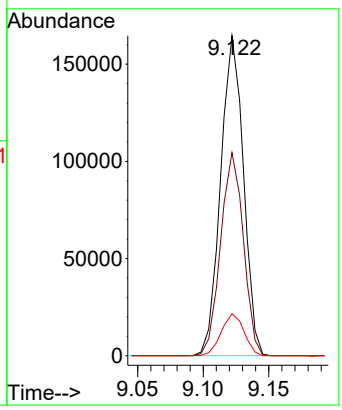
Tgt Ion:237 Resp: 19881

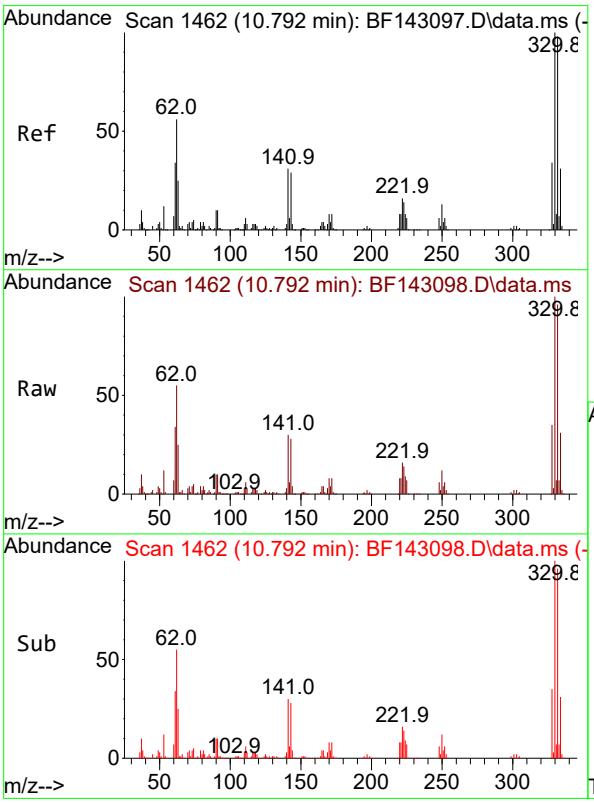
Ion	Ratio	Lower	Upper
237	100		
235	63.4	41.6	81.6
272	13.1	0.0	32.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

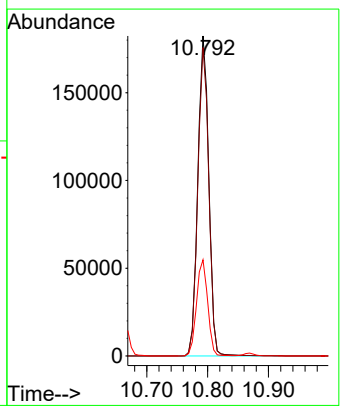


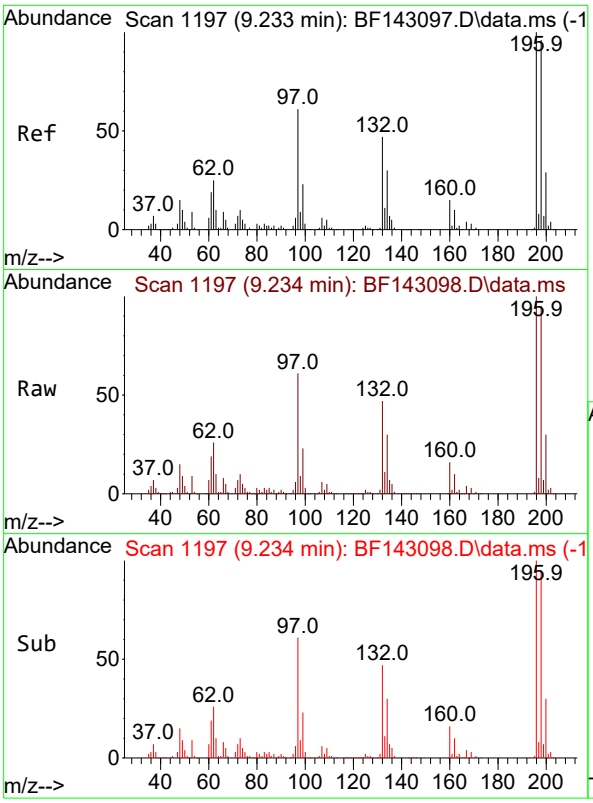


#42
2,4,6-Tribromophenol
Concen: 114.439 ng
RT: 10.792 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:330 Resp: 227678

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.9	116.9
141	30.5	25.9	38.9

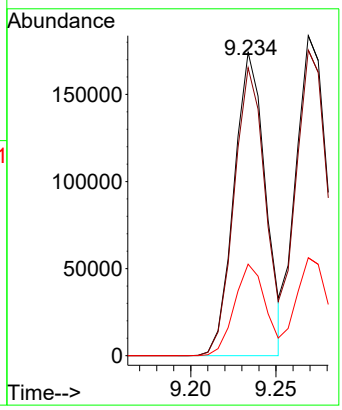




#43
2,4,6-Trichlorophenol
Concen: 55.226 ng
RT: 9.234 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:196 Resp: 22313

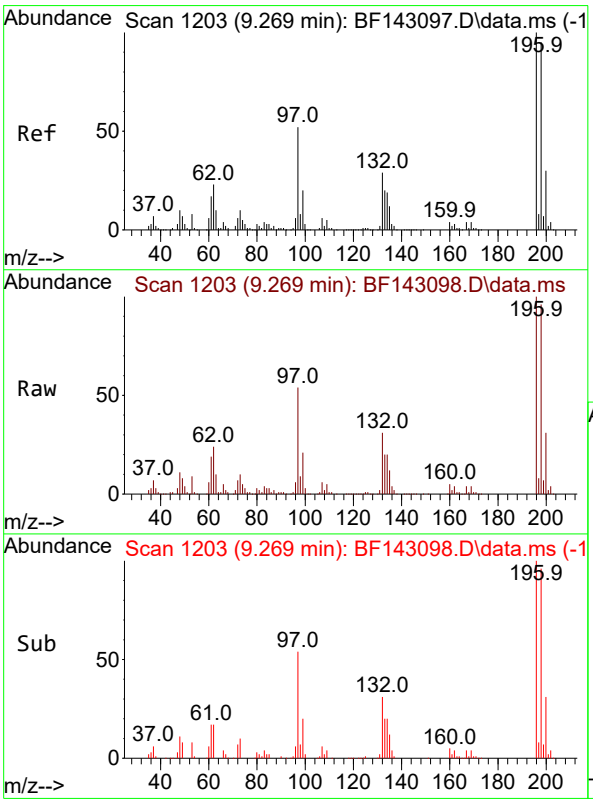
Ion	Ratio	Lower	Upper
196	100		
198	94.9	76.9	115.3
200	30.2	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

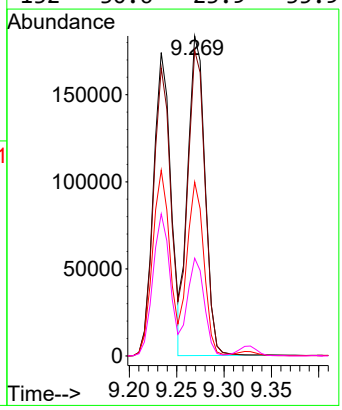
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

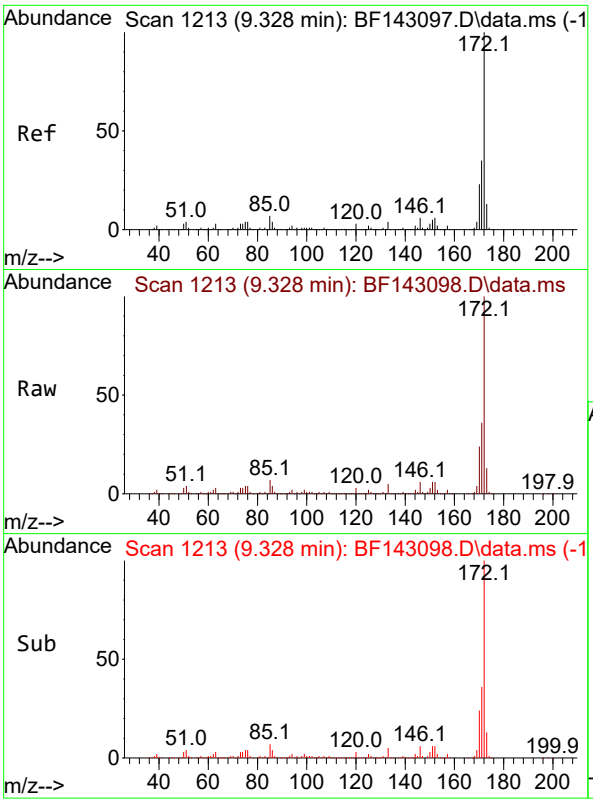


#44
2,4,5-Trichlorophenol
Concen: 54.977 ng
RT: 9.269 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:196 Resp: 232905

Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.4	114.6
97	54.3	42.4	63.6
132	30.6	23.9	35.9

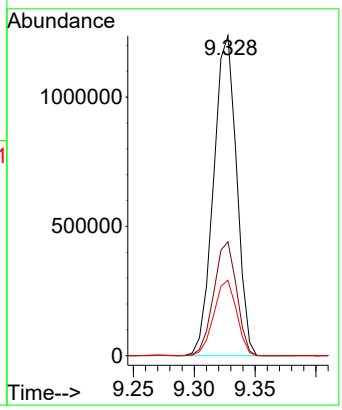




#45
2-Fluorobiphenyl
Concen: 97.028 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:172 Resp: 162865

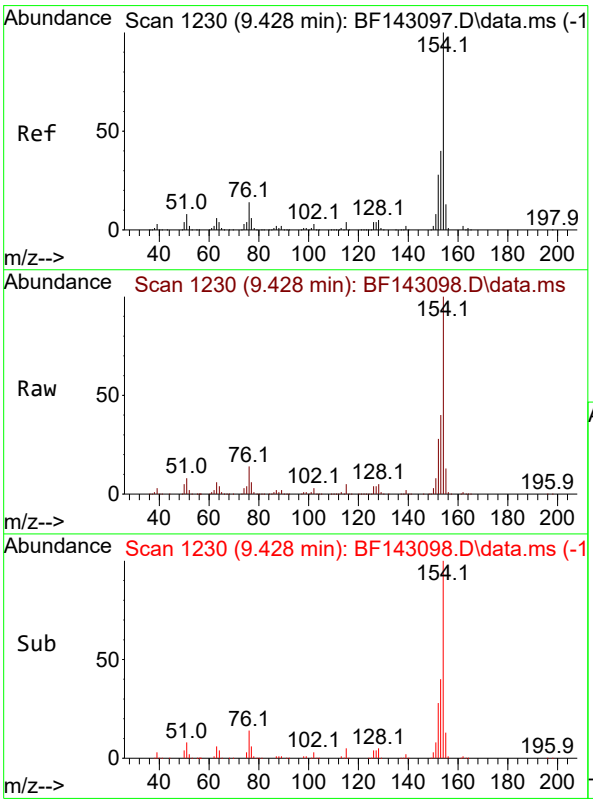
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.4
170	23.6	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

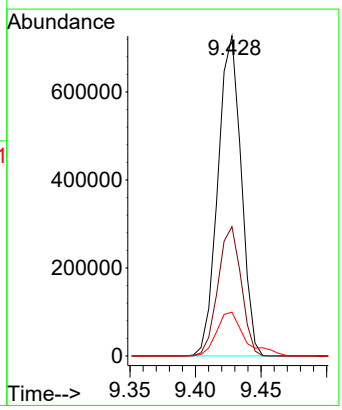
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

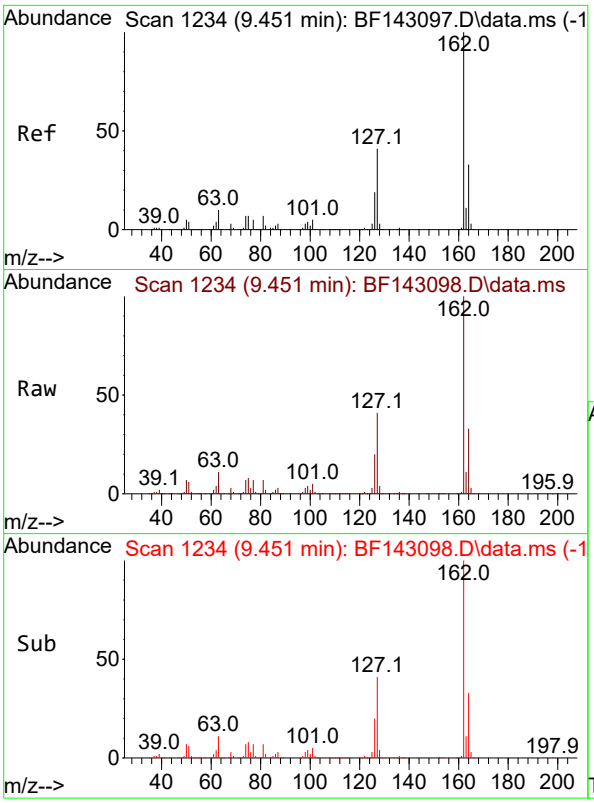


#46
1,1'-Biphenyl
Concen: 50.458 ng
RT: 9.428 min Scan# 1230
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:154 Resp: 897834

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.1	60.1
76	13.7	0.0	33.7

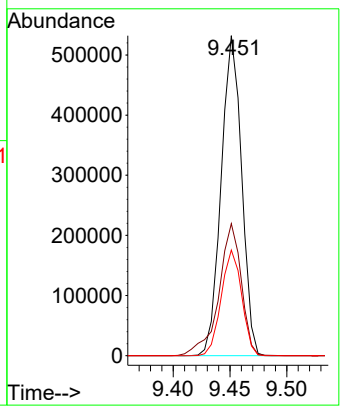




#47
2-Chloronaphthalene
Concen: 51.007 ng
RT: 9.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:162 Resp: 66676

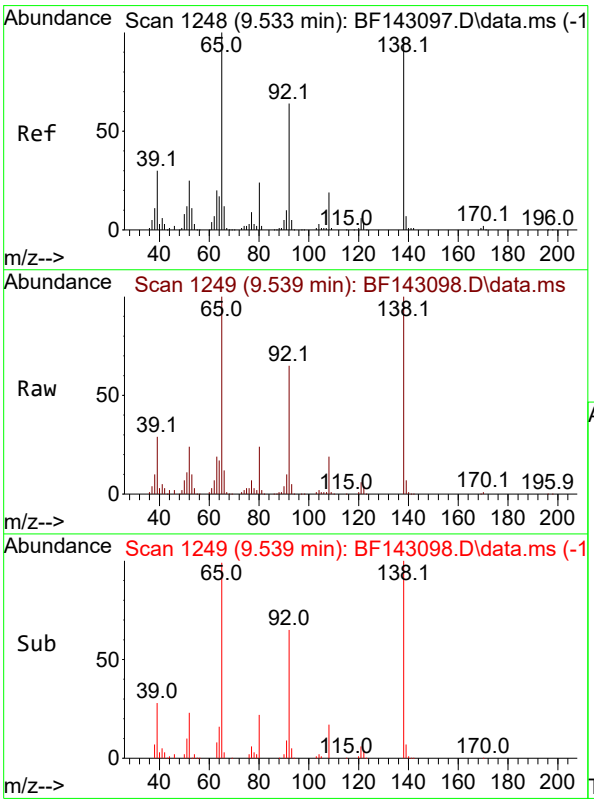
Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.0	49.6
164	33.0	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

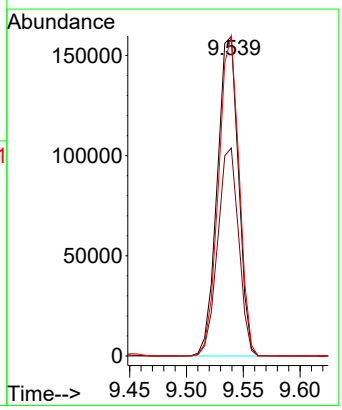
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

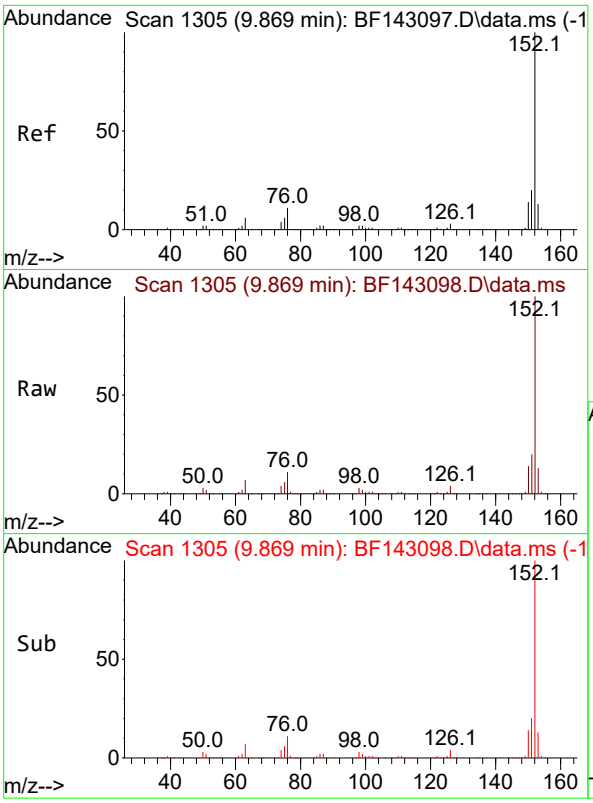


#48
2-Nitroaniline
Concen: 52.775 ng
RT: 9.539 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion: 65 Resp: 207291

Ion	Ratio	Lower	Upper
65	100		
92	65.1	51.3	76.9
138	100.2	77.8	116.6

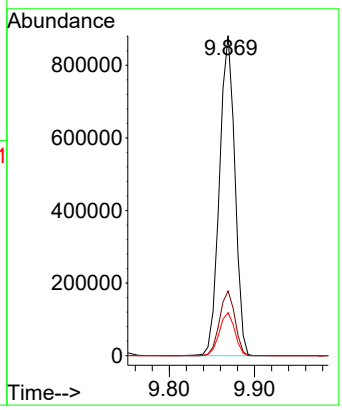




#49
Acenaphthylene
Concen: 50.940 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:152 Resp: 110958

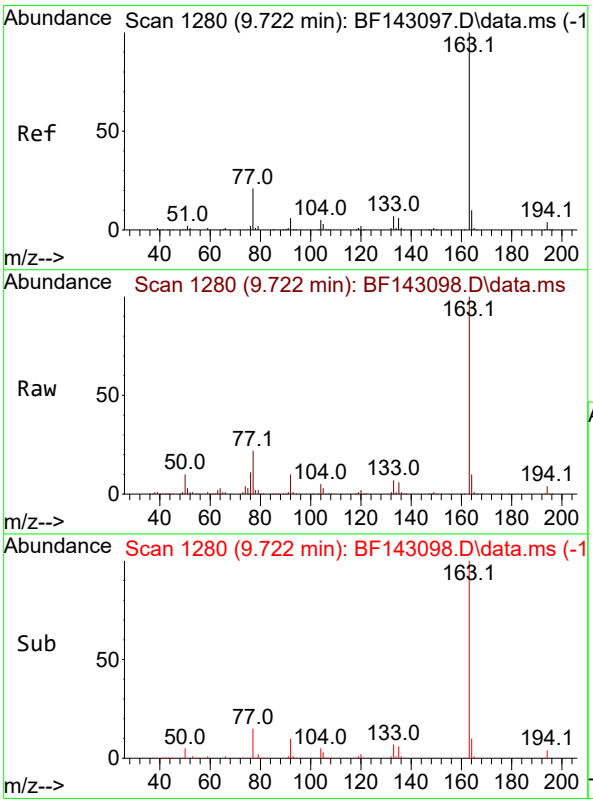
Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.4	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

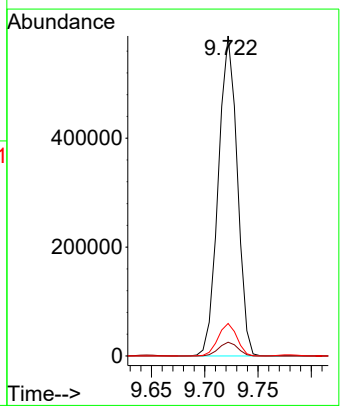
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

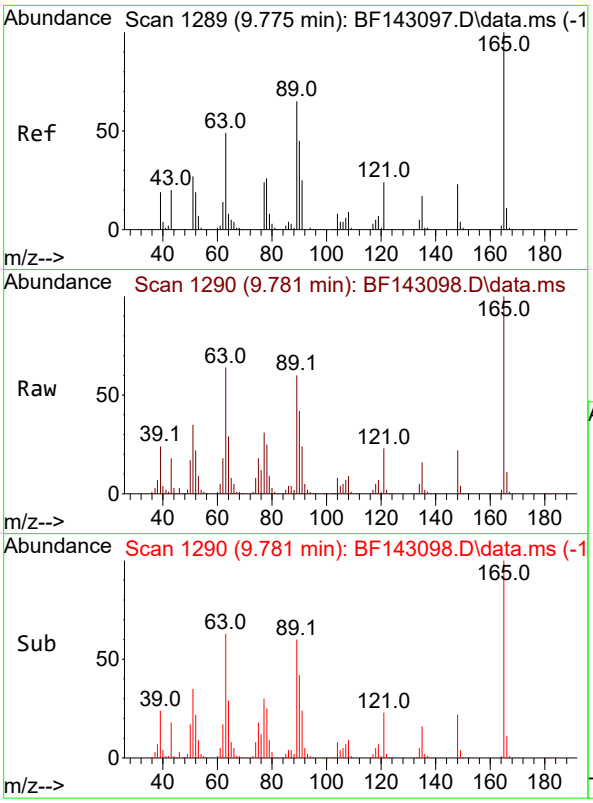


#50
Dimethylphthalate
Concen: 51.728 ng
RT: 9.722 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:163 Resp: 726121

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.1	8.2	12.2

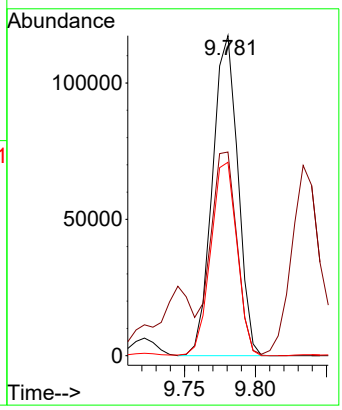




#51
2,6-Dinitrotoluene
Concen: 52.497 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:165 Resp: 14638

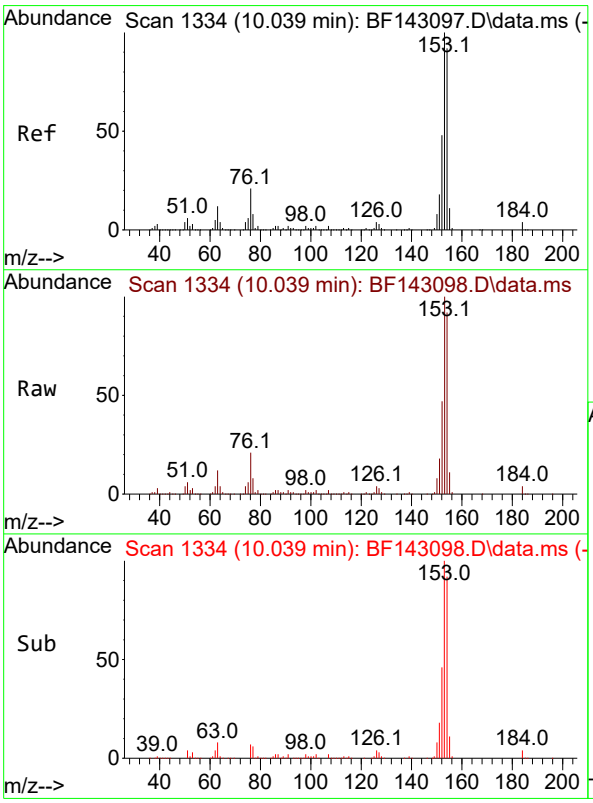
Ion	Ratio	Lower	Upper
165	100		
63	63.7	57.4	86.0
89	60.4	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

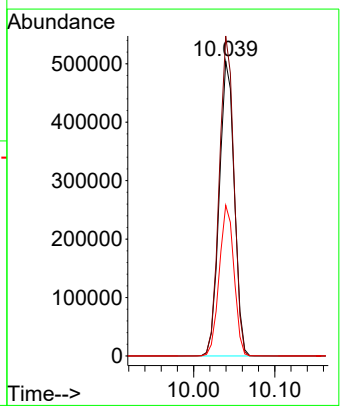
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

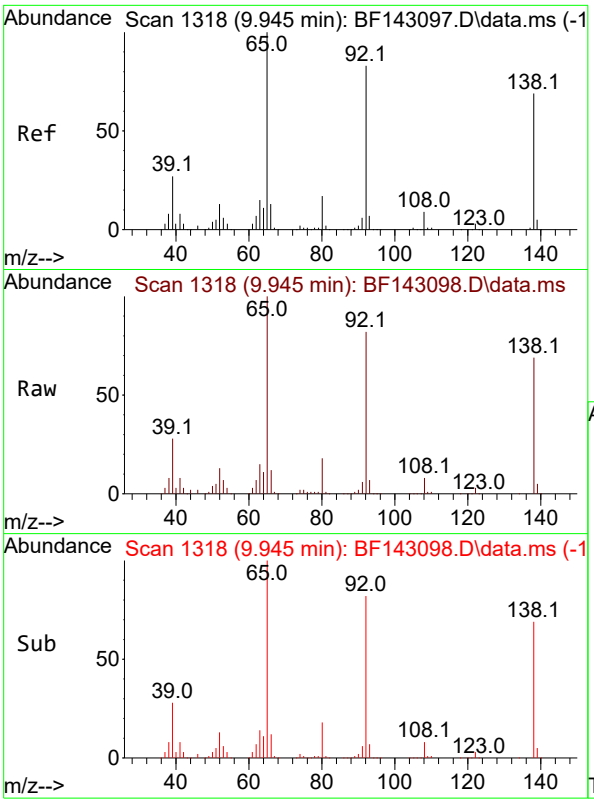


#52
Acenaphthene
Concen: 50.669 ng
RT: 10.039 min Scan# 1334
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:154 Resp: 651291

Ion	Ratio	Lower	Upper
154	100		
153	108.6	86.7	130.1
152	51.1	41.4	62.2





#53
3-Nitroaniline
Concen: 58.553 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

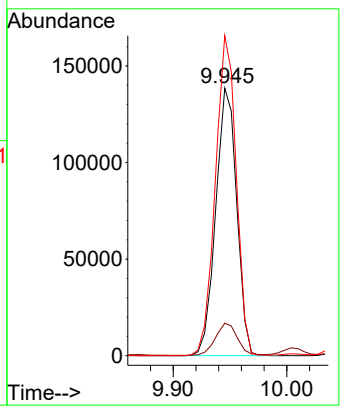
Tgt Ion:138 Resp: 17760

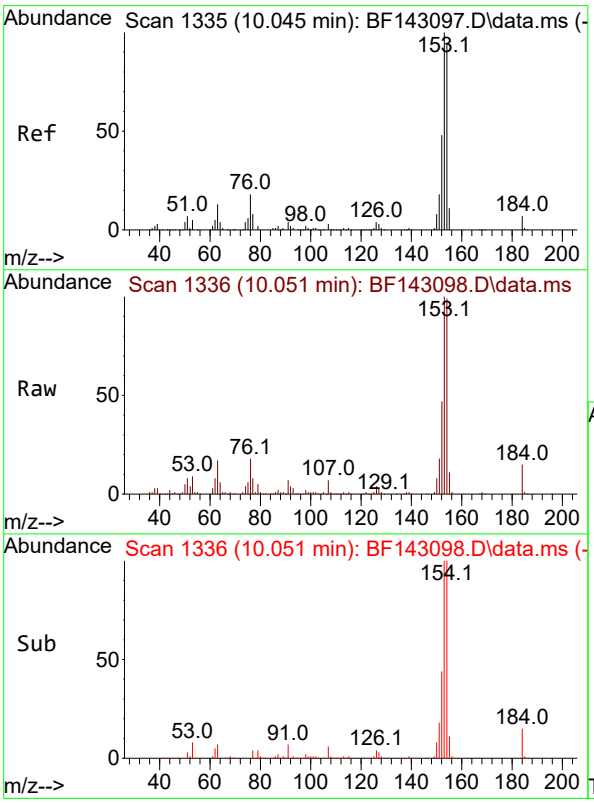
Ion	Ratio	Lower	Upper
138	100		
108	12.1	10.1	15.1
92	119.6	96.4	144.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

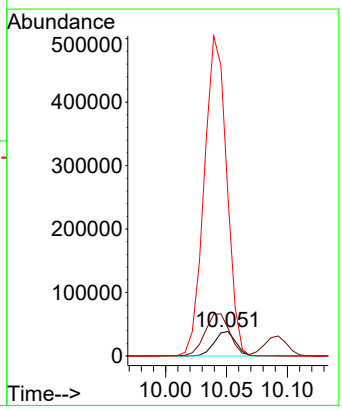


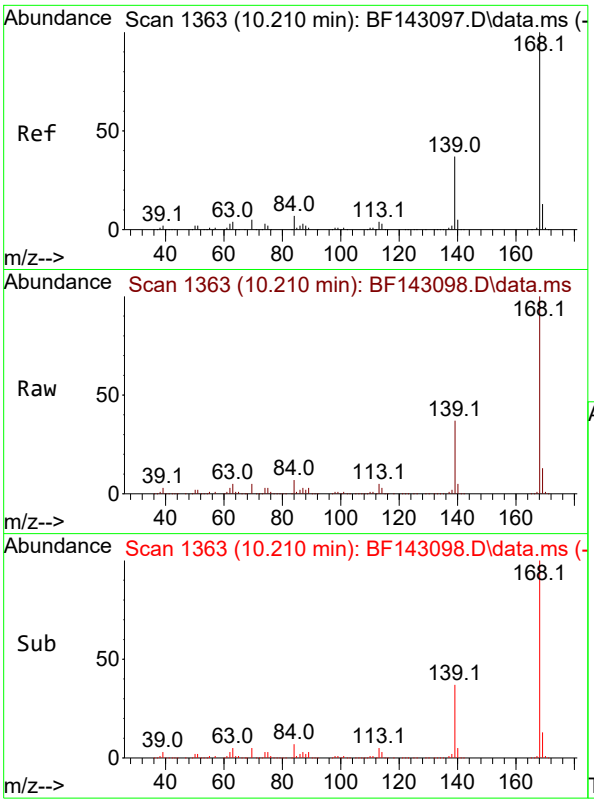


#54
2,4-Dinitrophenol
Concen: 51.931 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:184 Resp: 47800

Ion	Ratio	Lower	Upper
184	100		
63	113.4	149.3	223.9#
154	651.1	1048.0	1572.0#

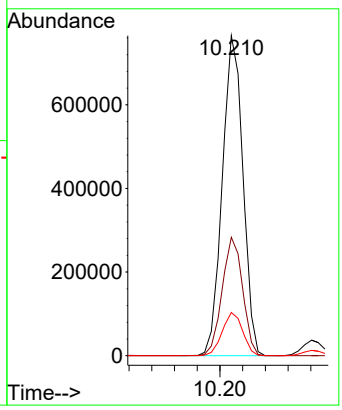




#55
Dibenzofuran
Concen: 50.344 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:168 Resp: 96454

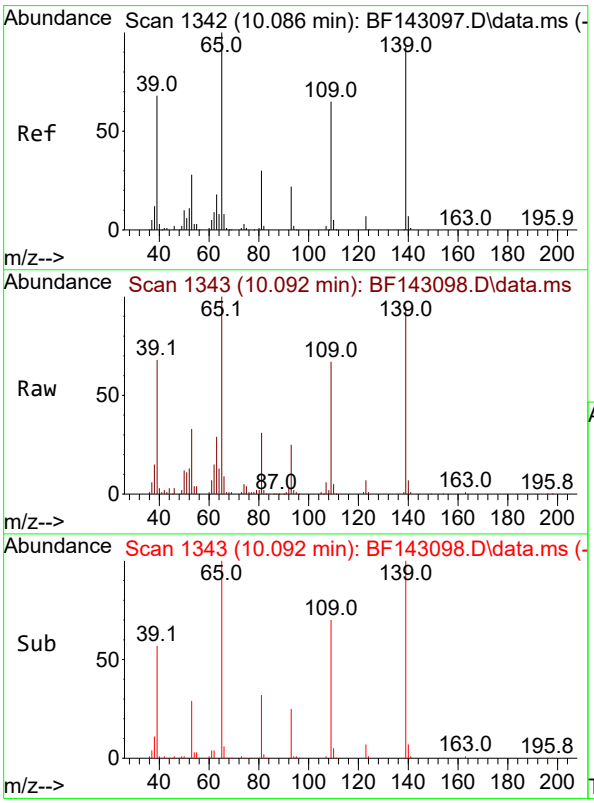
Ion	Ratio	Lower	Upper
168	100		
139	37.0	29.8	44.6
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

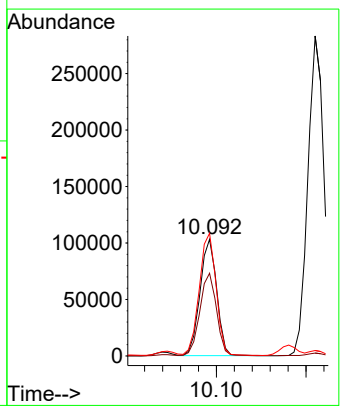
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

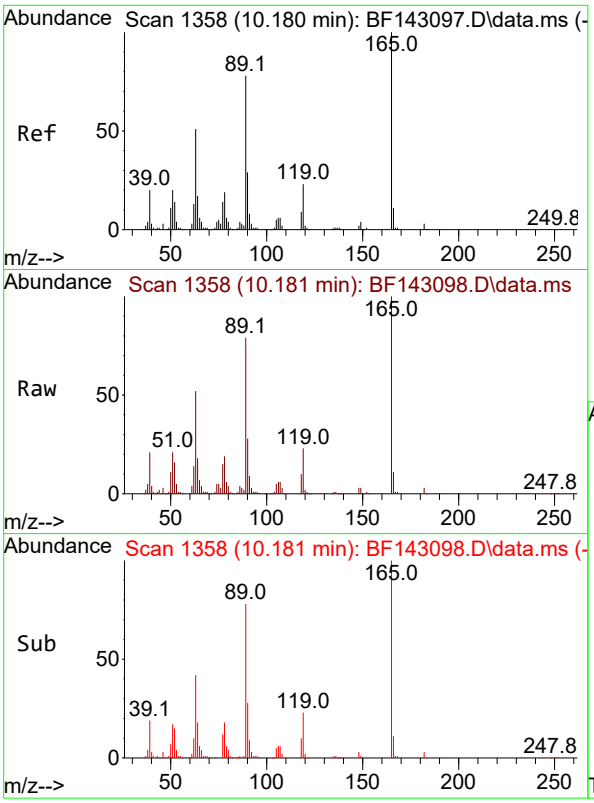


#56
4-Nitrophenol
Concen: 55.203 ng
RT: 10.092 min Scan# 1343
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:139 Resp: 133073

Ion	Ratio	Lower	Upper
139	100		
109	70.9	49.4	89.4
65	105.2	88.2	128.2

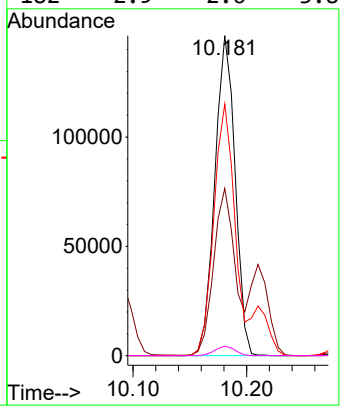




#57
2,4-Dinitrotoluene
Concen: 52.116 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:165 Resp: 18161

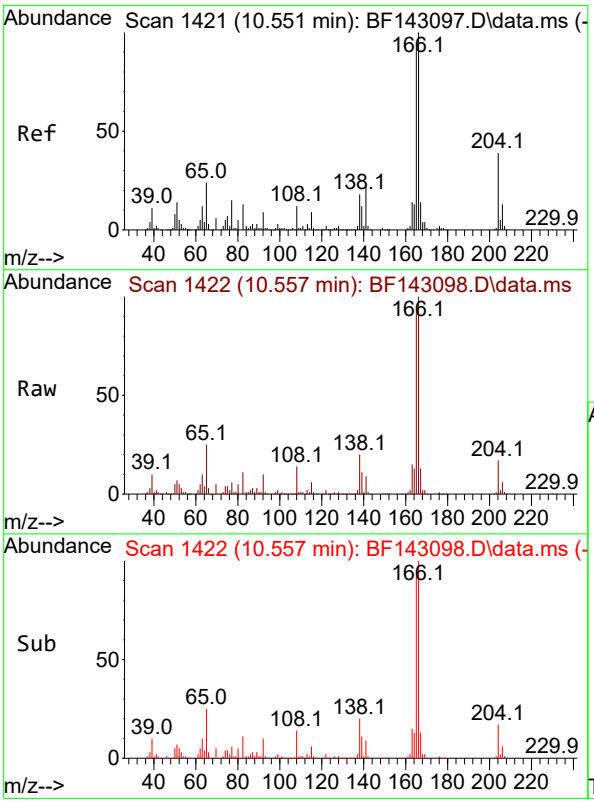
Ion	Ratio	Lower	Upper
165	100		
63	52.2	40.6	61.0
89	78.6	62.3	93.5
182	2.9	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

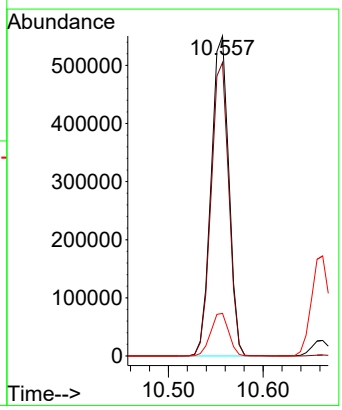
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

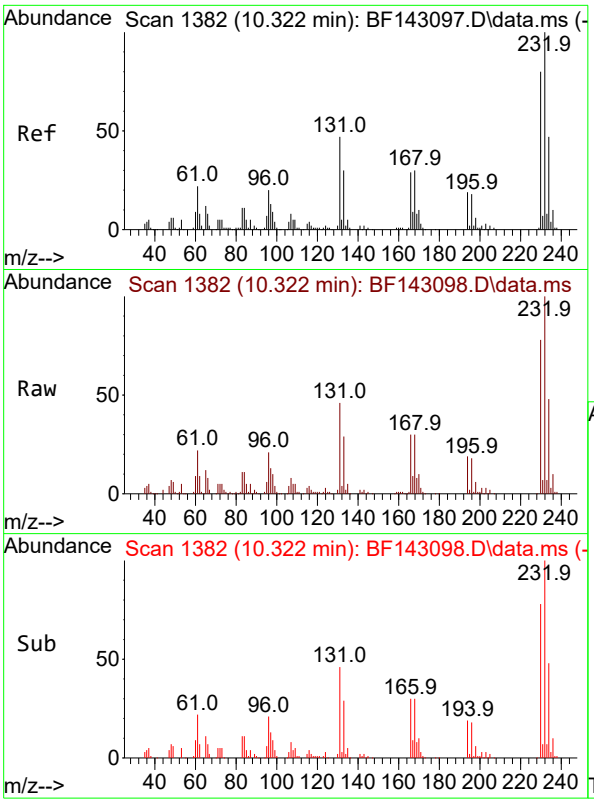


#58
Fluorene
Concen: 49.859 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:166 Resp: 716173

Ion	Ratio	Lower	Upper
166	100		
165	91.7	73.7	110.5
167	13.3	10.9	16.3

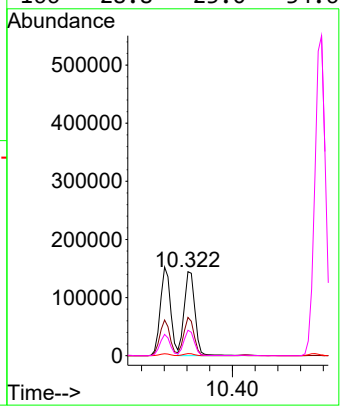




#59
2,3,4,6-Tetrachlorophenol
Concen: 56.202 ng
RT: 10.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:232 Resp: 18921

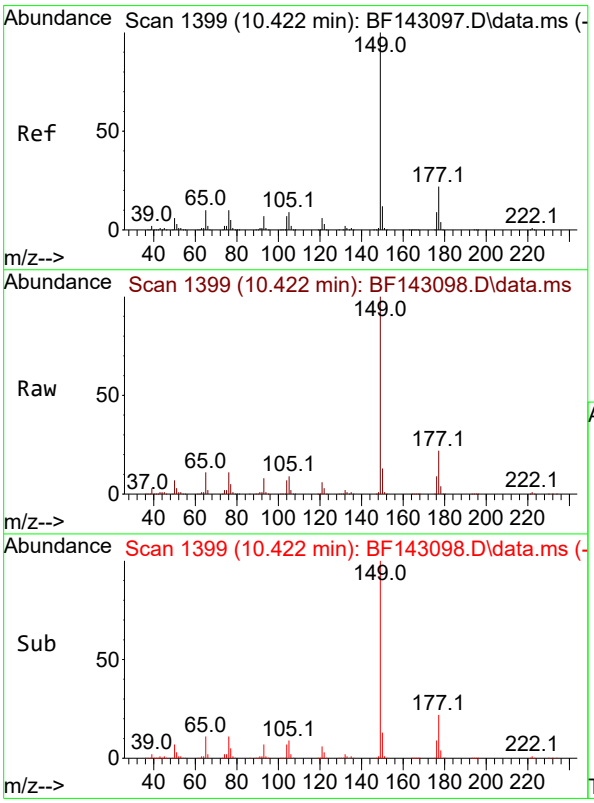
Ion	Ratio	Lower	Upper
232	100		
131	43.8	36.9	55.3
130	2.3	1.8	2.8
166	28.8	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

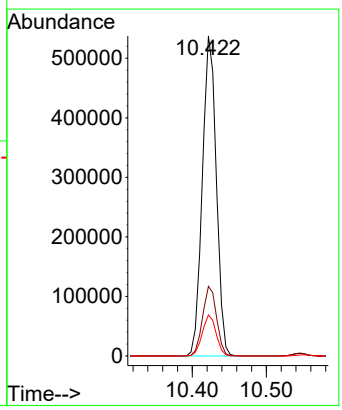
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

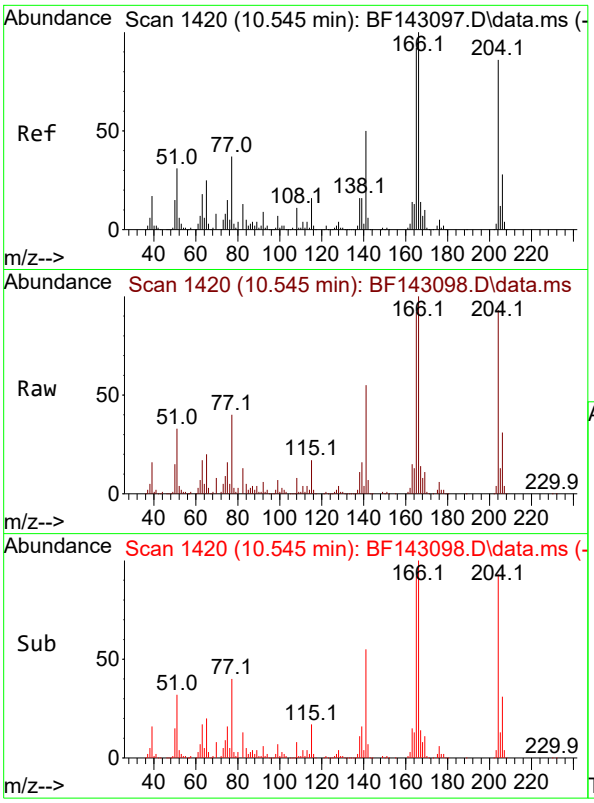


#60
Diethylphthalate
Concen: 51.909 ng
RT: 10.422 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:149 Resp: 702995

Ion	Ratio	Lower	Upper
149	100		
177	21.7	17.3	25.9
150	12.8	9.9	14.9

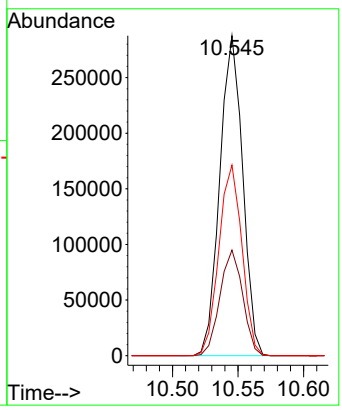




#61
4-Chlorophenyl-phenylether
Concen: 50.675 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:204 Resp: 34887

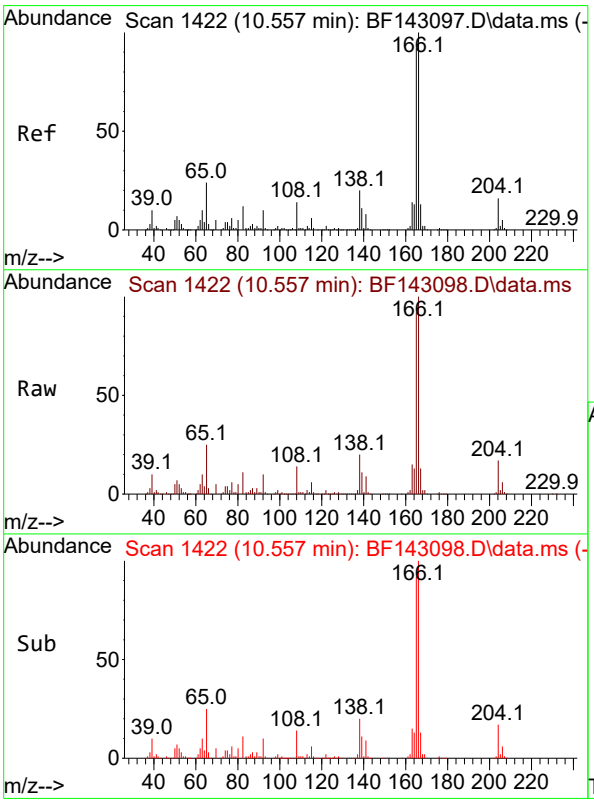
Ion	Ratio	Lower	Upper
204	100		
206	33.0	25.8	38.6
141	59.6	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

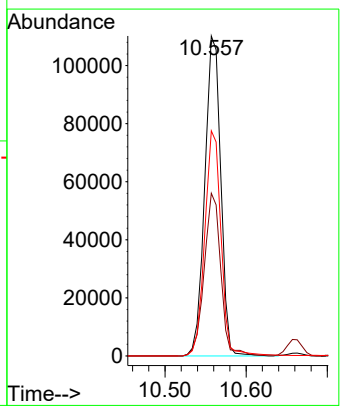
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

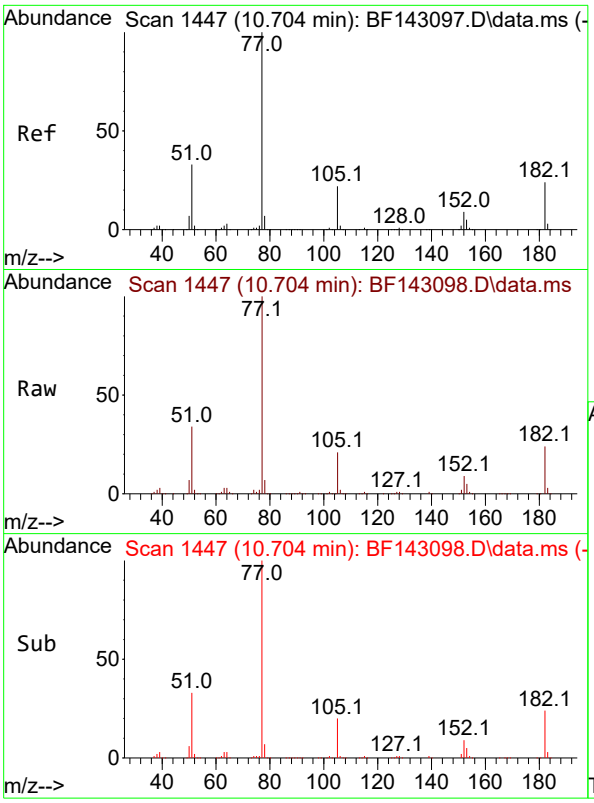


#62
4-Nitroaniline
Concen: 57.045 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:138 Resp: 150470

Ion	Ratio	Lower	Upper
138	100		
92	50.9	30.4	70.4
108	70.3	49.5	89.5

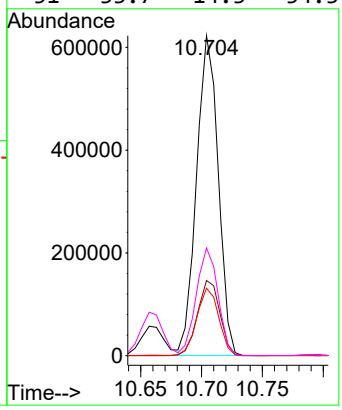




#63
Azobenzene
Concen: 51.451 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

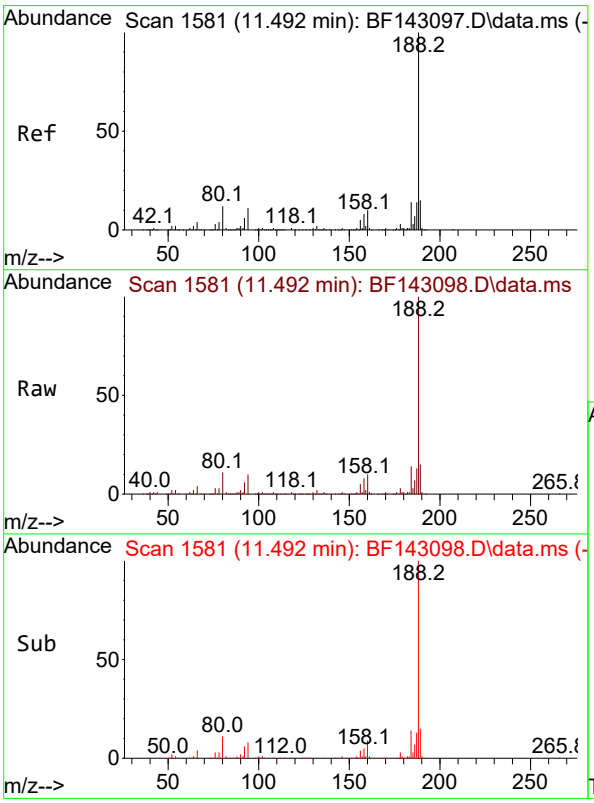
Tgt Ion: 77 Resp: 77060

Ion	Ratio	Lower	Upper
77	100		
182	23.5	4.0	44.0
105	21.1	1.4	41.4
51	33.7	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

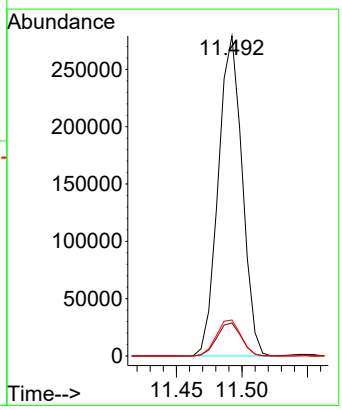
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

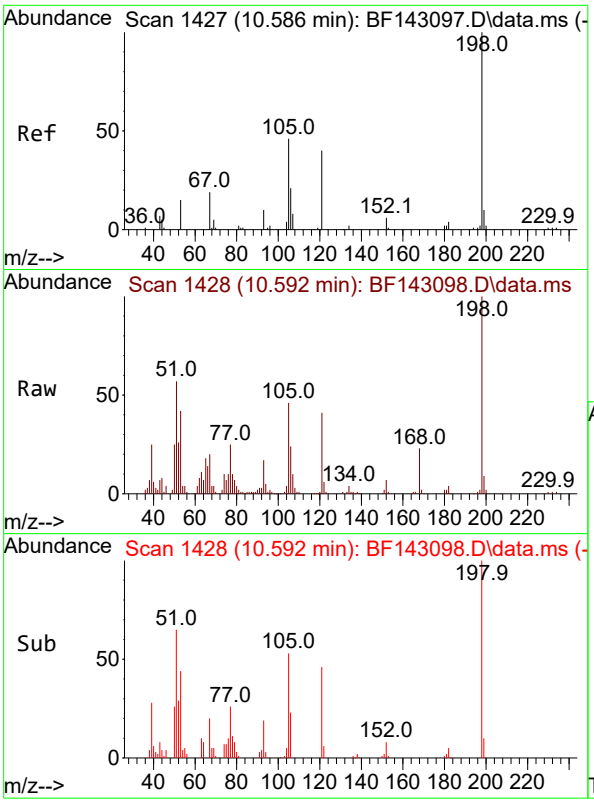


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:188 Resp: 354075

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.6	13.0
80	11.3	9.3	13.9





#65
4,6-Dinitro-2-methylphenol
Concen: 51.847 ng
RT: 10.592 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

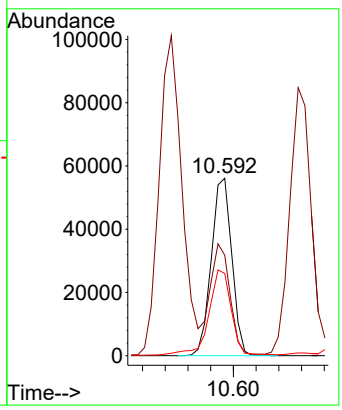
Tgt Ion:198 Resp: 7032

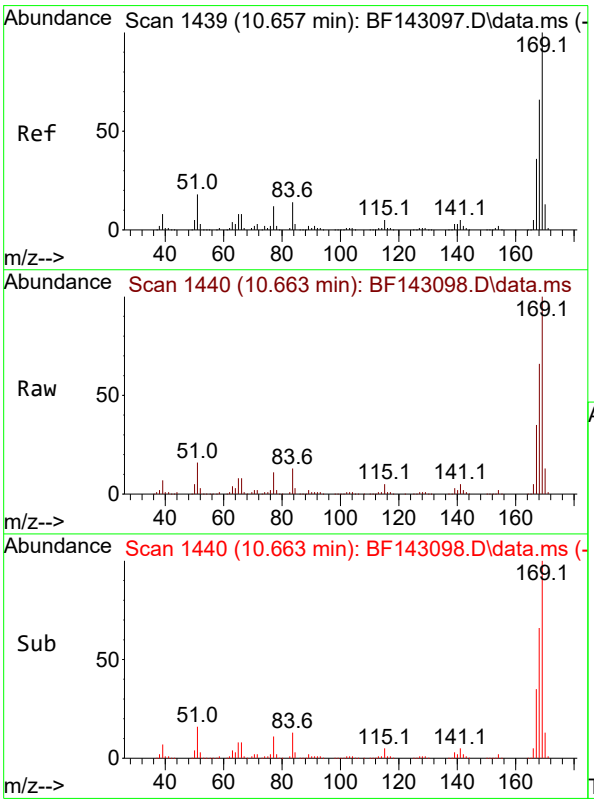
Ion	Ratio	Lower	Upper
198	100		
51	56.6	44.6	84.6
105	46.4	29.3	69.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

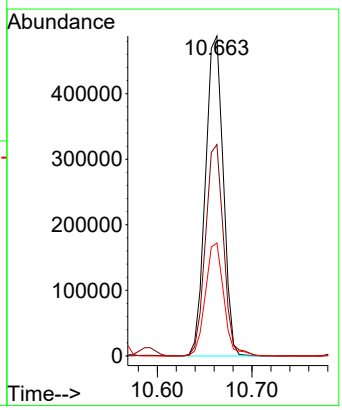


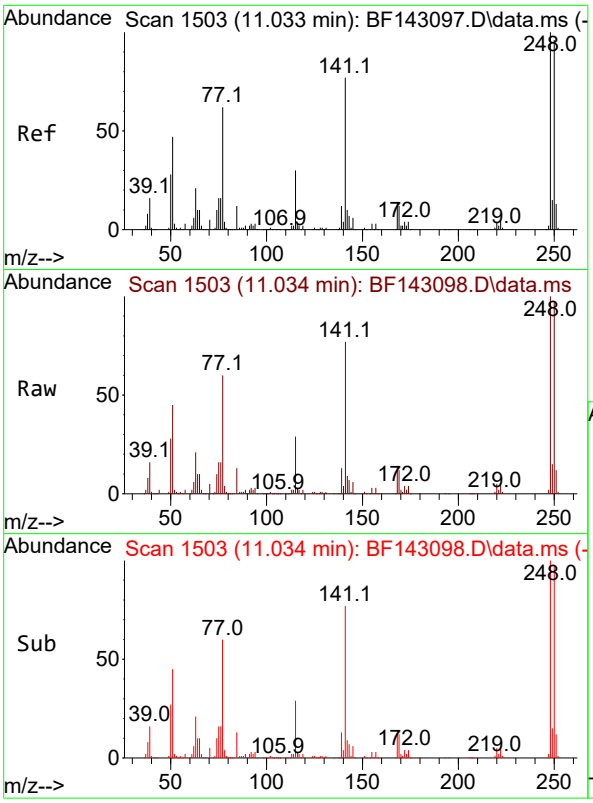


#66
n-Nitrosodiphenylamine
Concen: 51.019 ng
RT: 10.663 min Scan# 1440
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:169 Resp: 634539

Ion	Ratio	Lower	Upper
169	100		
168	66.1	53.0	79.6
167	35.3	28.4	42.6

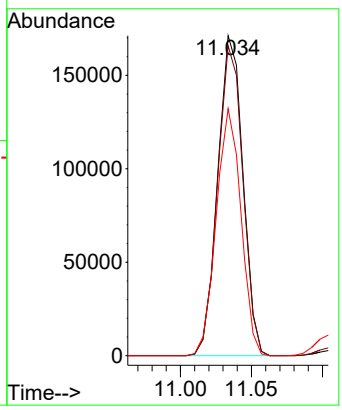




#67
4-Bromophenyl-phenylether
Concen: 52.494 ng
RT: 11.034 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:248 Resp: 21137

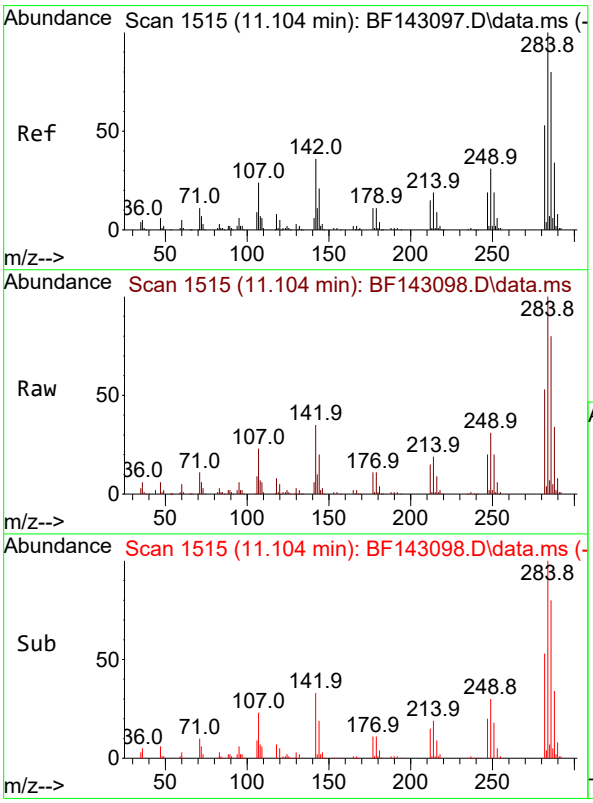
Ion	Ratio	Lower	Upper
248	100		
250	96.9	76.7	115.1
141	77.2	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

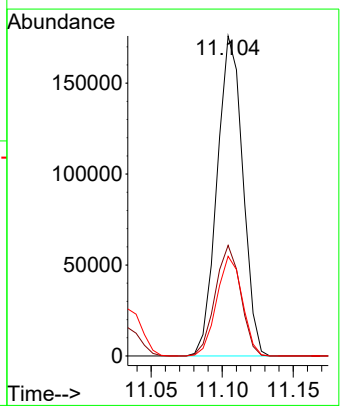
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

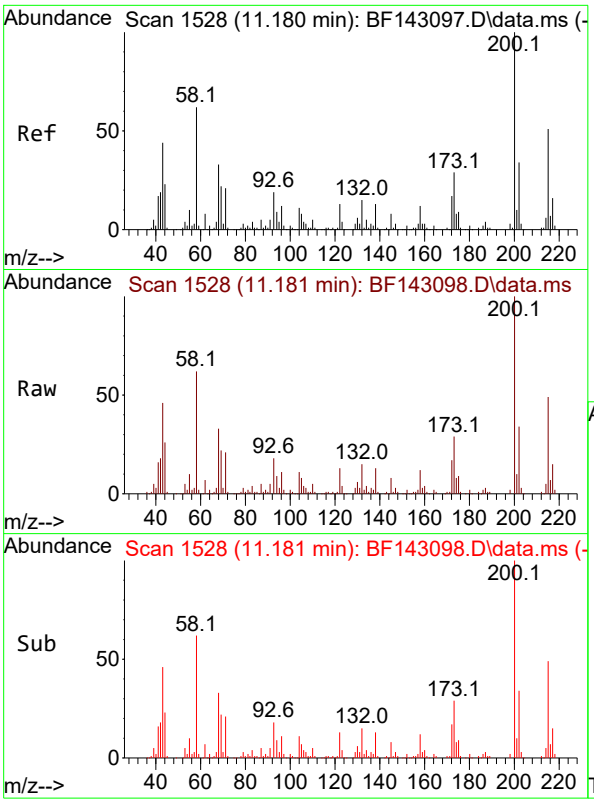


#68
Hexachlorobenzene
Concen: 51.785 ng
RT: 11.104 min Scan# 1515
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:284 Resp: 221245

Ion	Ratio	Lower	Upper
284	100		
142	34.5	28.9	43.3
249	31.1	24.6	37.0

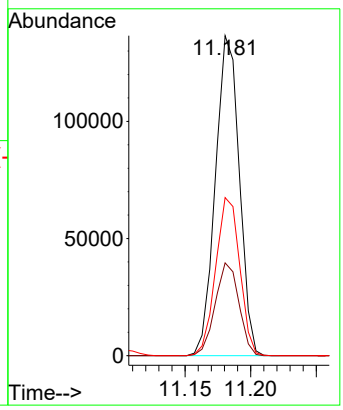




#69
Atrazine
Concen: 54.359 ng
RT: 11.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:200 Resp: 17297

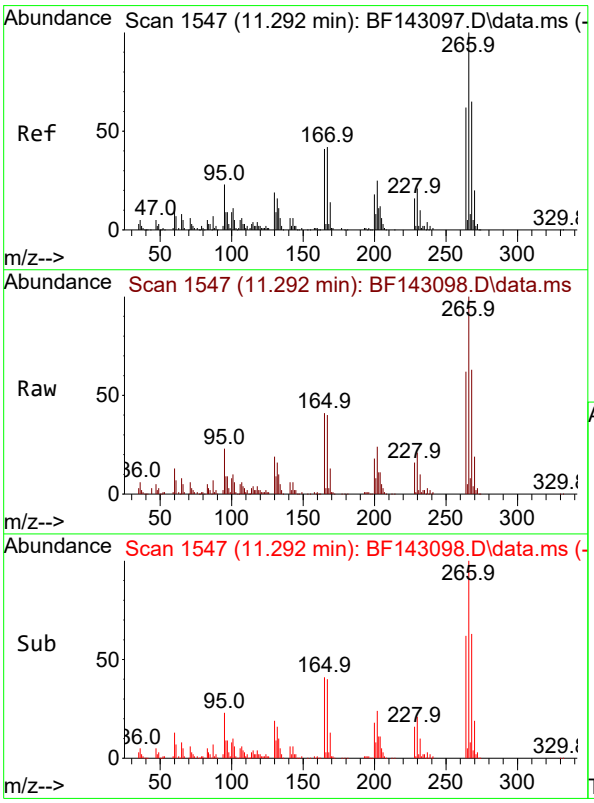
Ion	Ratio	Lower	Upper
200	100		
173	29.0	9.1	49.1
215	49.4	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

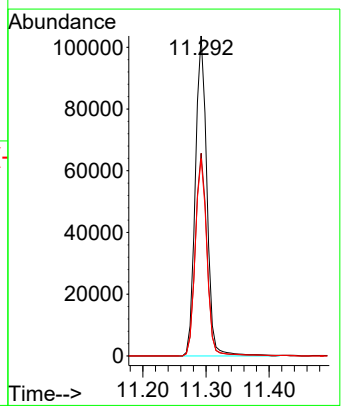
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

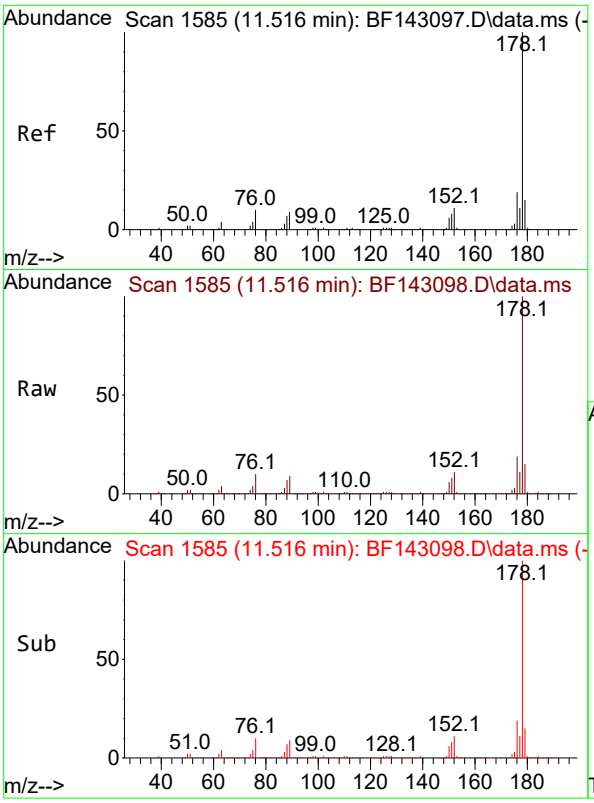


#70
Pentachlorophenol
Concen: 56.120 ng
RT: 11.292 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:266 Resp: 131545

Ion	Ratio	Lower	Upper
266	100		
268	63.3	51.8	77.6
264	61.7	49.7	74.5

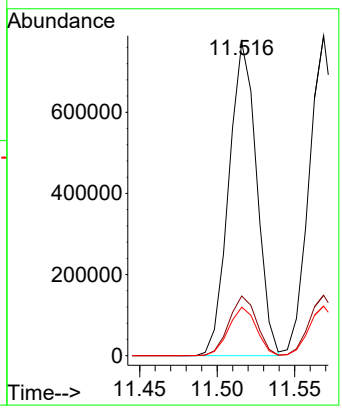




#71
Phenanthrene
Concen: 50.425 ng
RT: 11.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:178 Resp: 96356

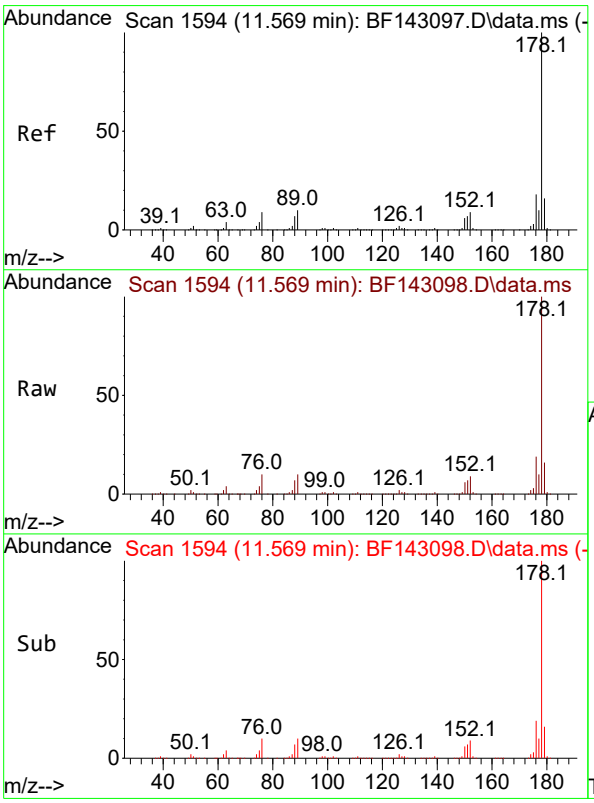
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.1	22.7
179	15.5	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

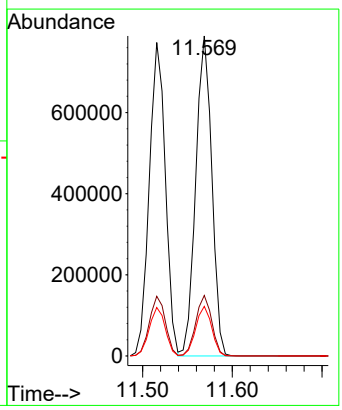
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

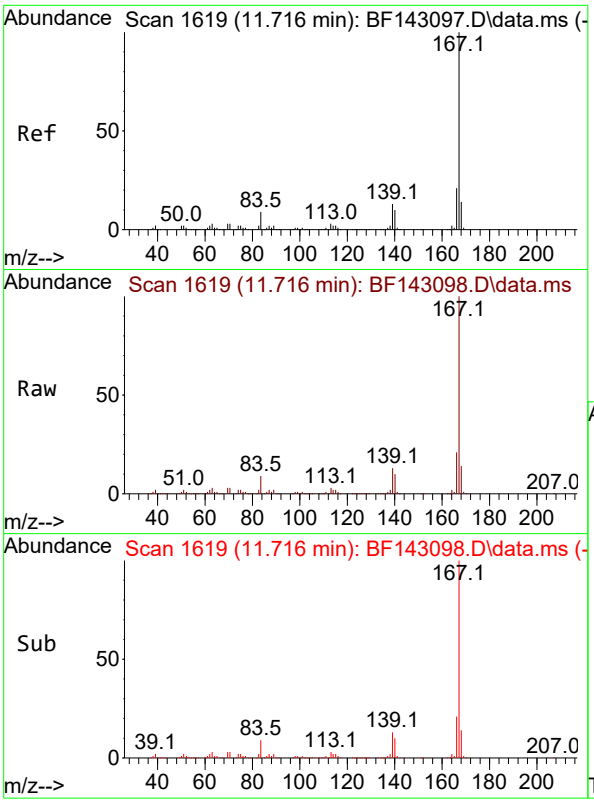


#72
Anthracene
Concen: 50.953 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:178 Resp: 979118

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.5	12.4	18.6

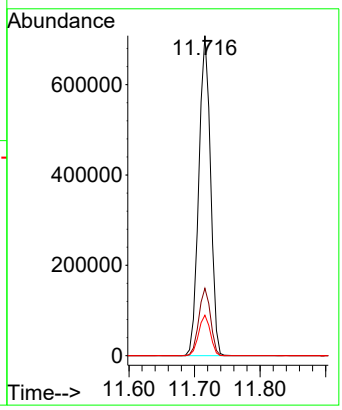




#73
Carbazole
Concen: 51.340 ng
RT: 11.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:167 Resp: 88382

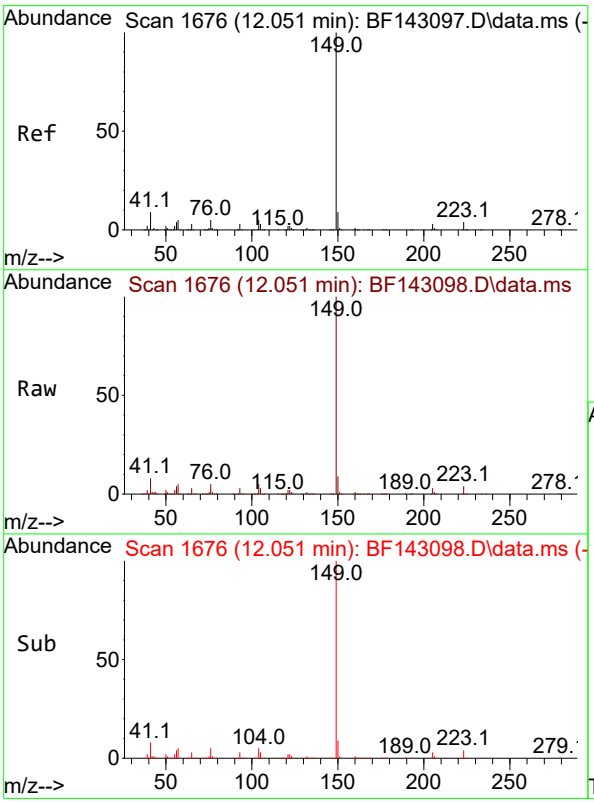
Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.4
139	12.7	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

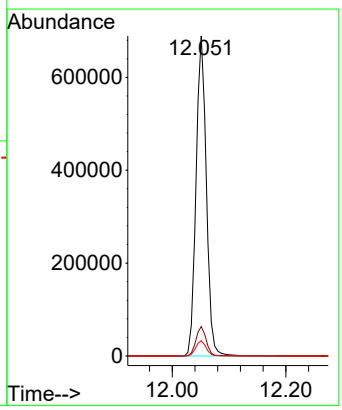
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

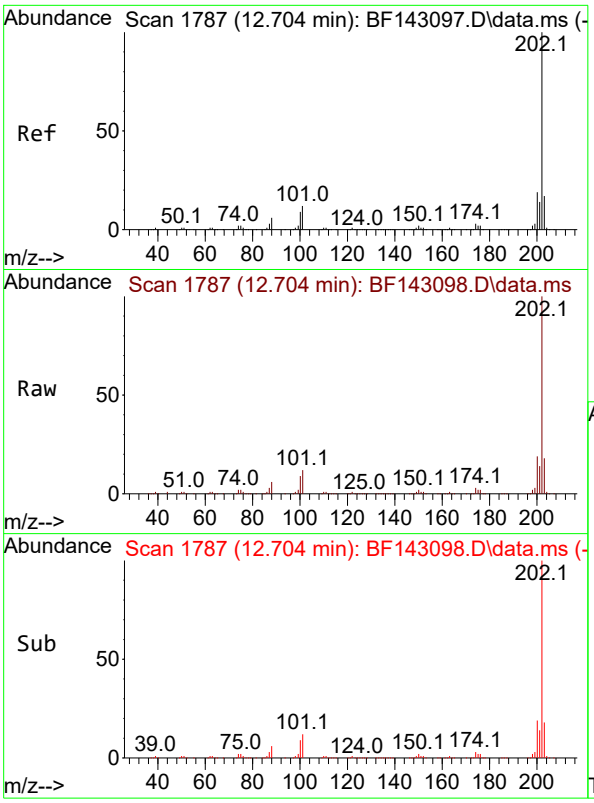


#74
Di-n-butylphthalate
Concen: 55.079 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:149 Resp: 870362

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.8	3.8	5.8





#75
Fluoranthene
Concen: 50.852 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

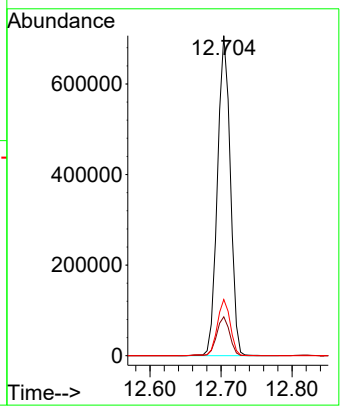
Tgt Ion:202 Resp: 88355

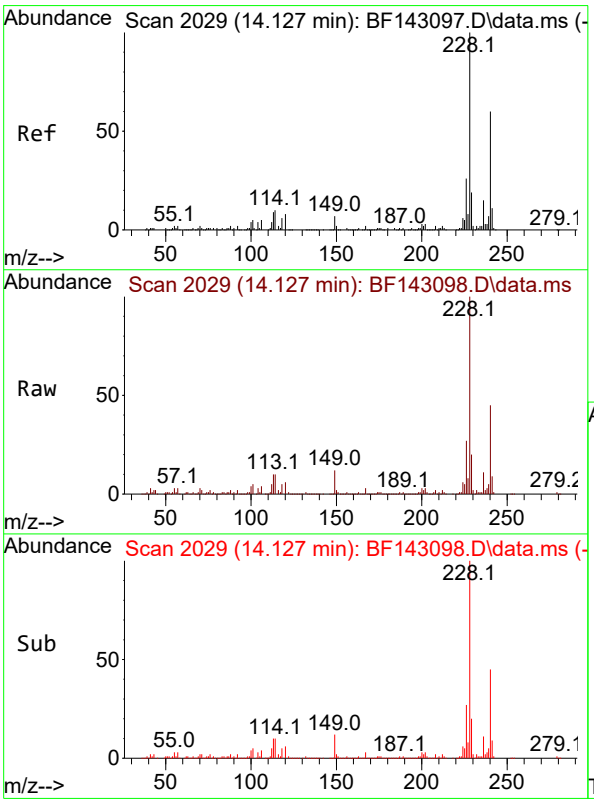
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	32.4
203	17.5	0.0	37.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

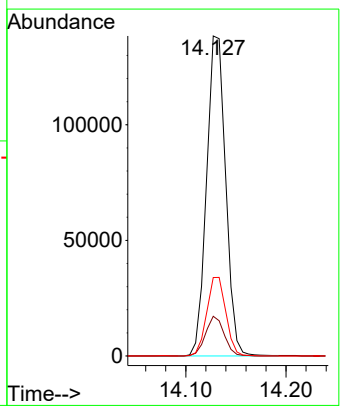


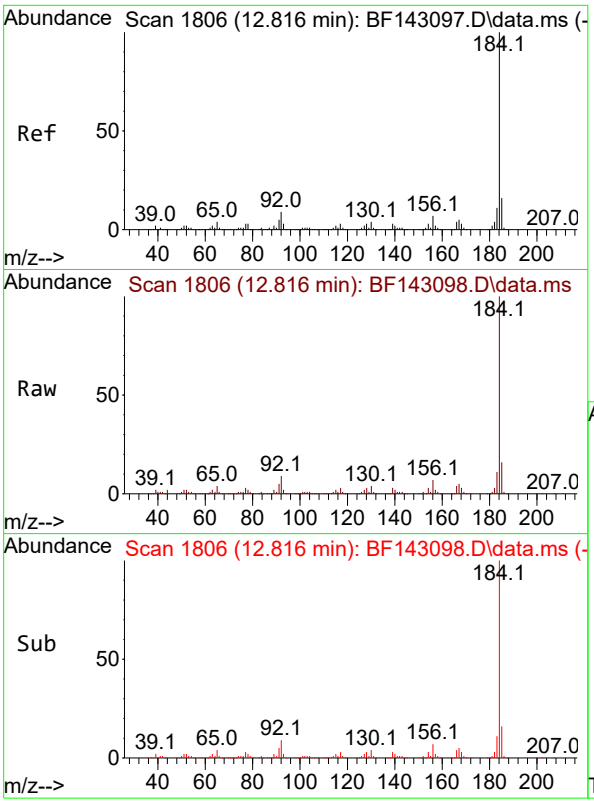


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:240 Resp: 183692

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	24.5	20.0	30.0

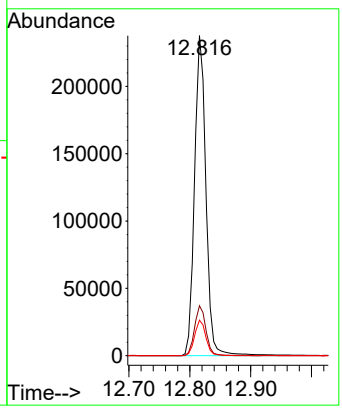




#77
Benzidine
Concen: 49.425 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:184 Resp: 30931

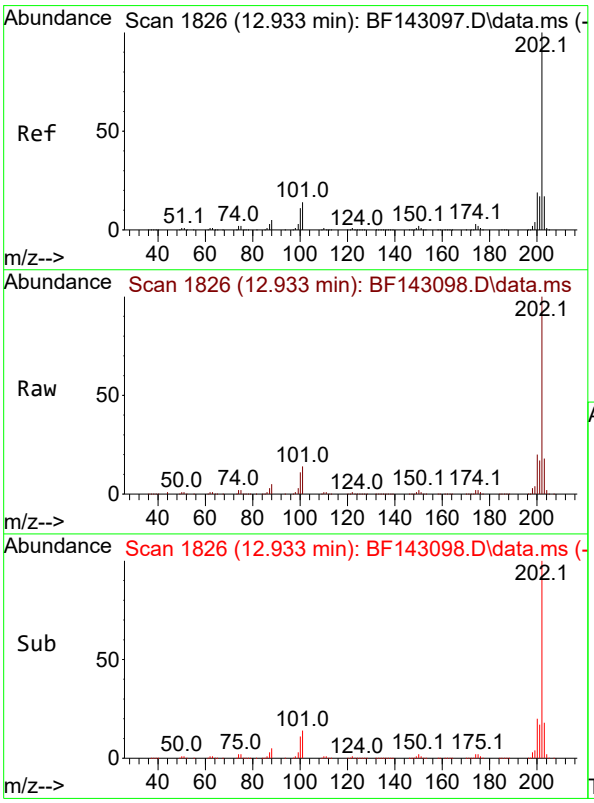
Ion	Ratio	Lower	Upper
184	100		
185	15.6	12.4	18.6
183	11.1	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

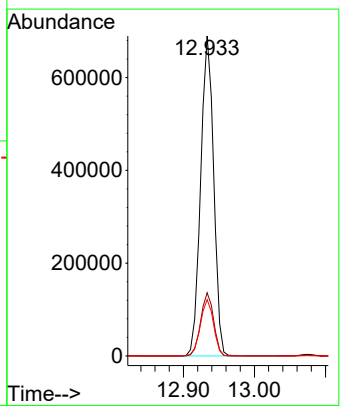
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

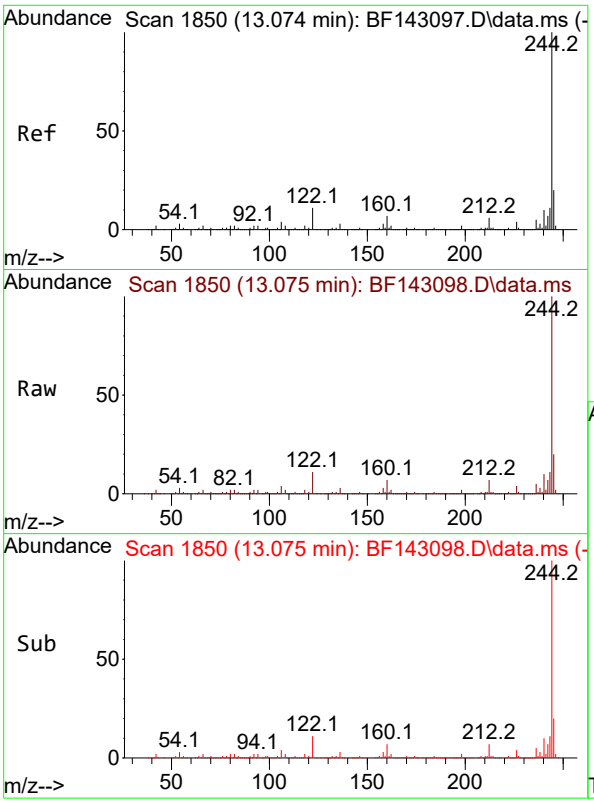


#78
Pyrene
Concen: 51.681 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:202 Resp: 880826

Ion	Ratio	Lower	Upper
202	100		
200	19.8	15.5	23.3
203	17.6	14.0	21.0

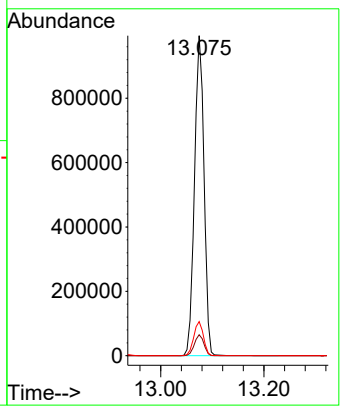




#79
Terphenyl-d14
Concen: 101.195 ng
RT: 13.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:244 Resp: 127162

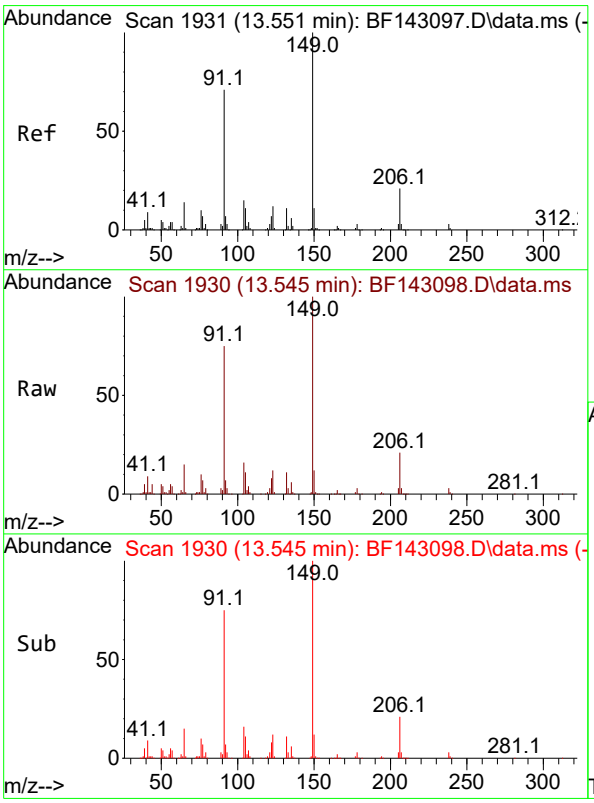
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.2	7.8
122	10.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

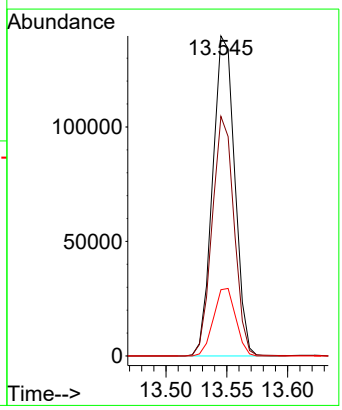
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

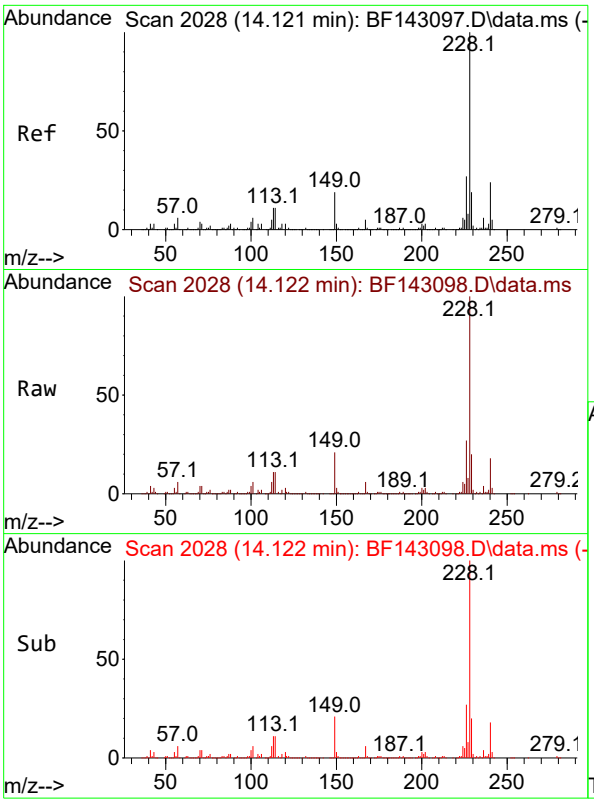


#80
Butylbenzylphthalate
Concen: 51.324 ng
RT: 13.545 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:149 Resp: 176615

Ion	Ratio	Lower	Upper
149	100		
91	74.8	57.0	85.4
206	20.7	17.2	25.8

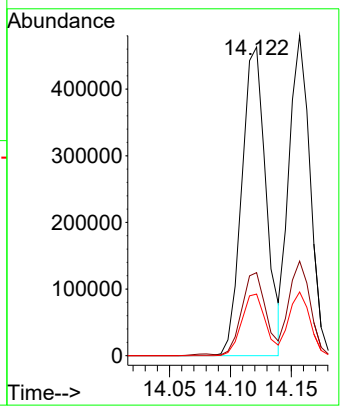




#81
Benzo(a)anthracene
Concen: 52.641 ng
RT: 14.122 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:228 Resp: 64435

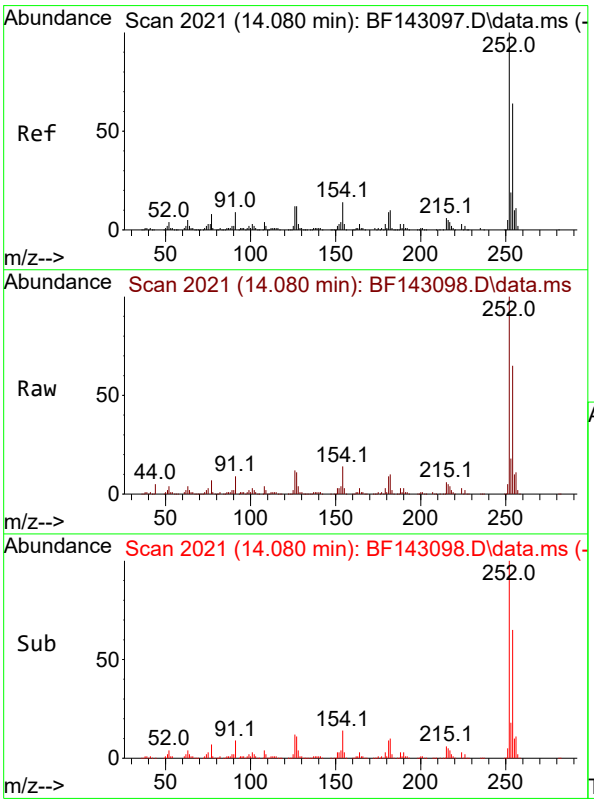
Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.3	31.9
229	20.0	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

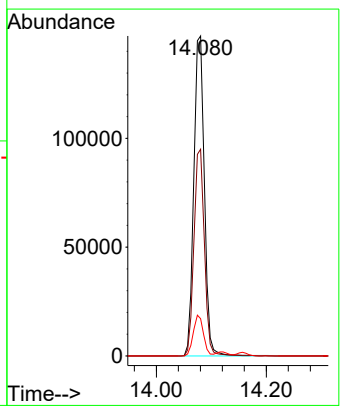
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

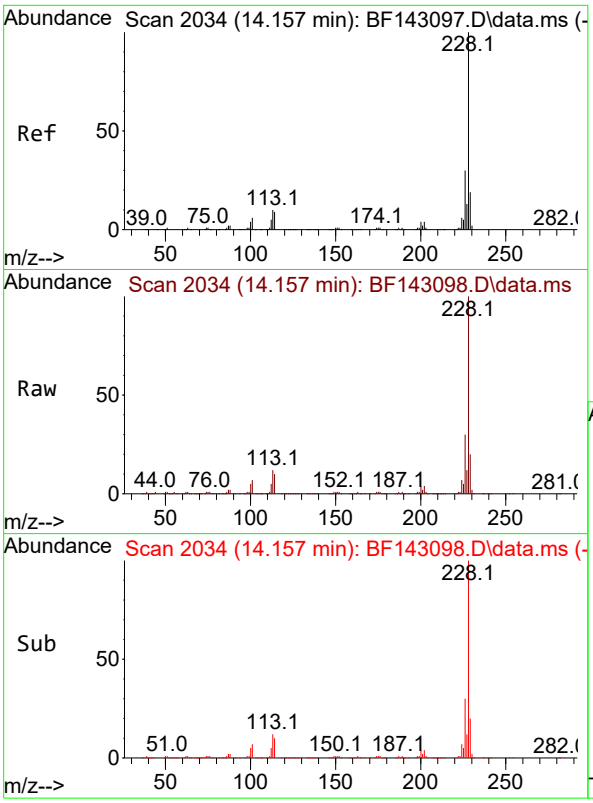


#82
3,3'-Dichlorobenzidine
Concen: 55.273 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:252 Resp: 196472

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.5	77.3
126	11.7	9.4	14.0

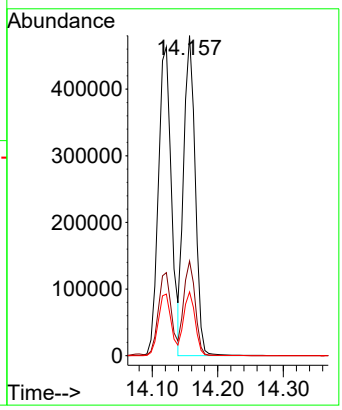




#83
Chrysene
Concen: 51.740 ng
RT: 14.157 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:228 Resp: 58330

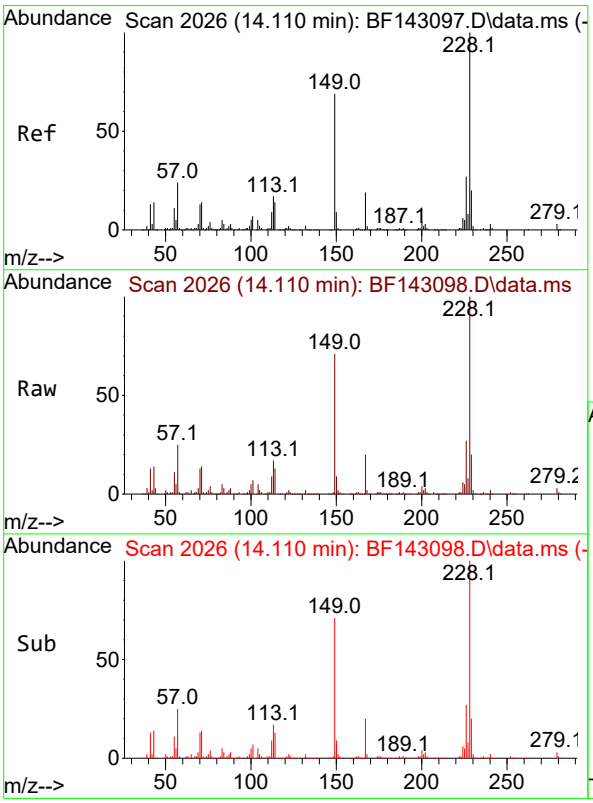
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.4	35.2
229	19.9	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

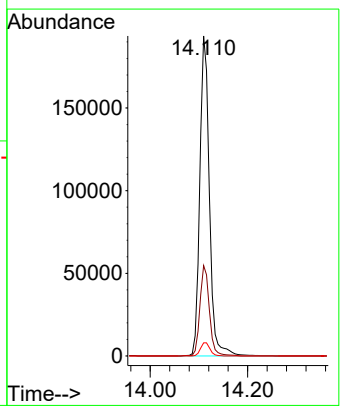
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

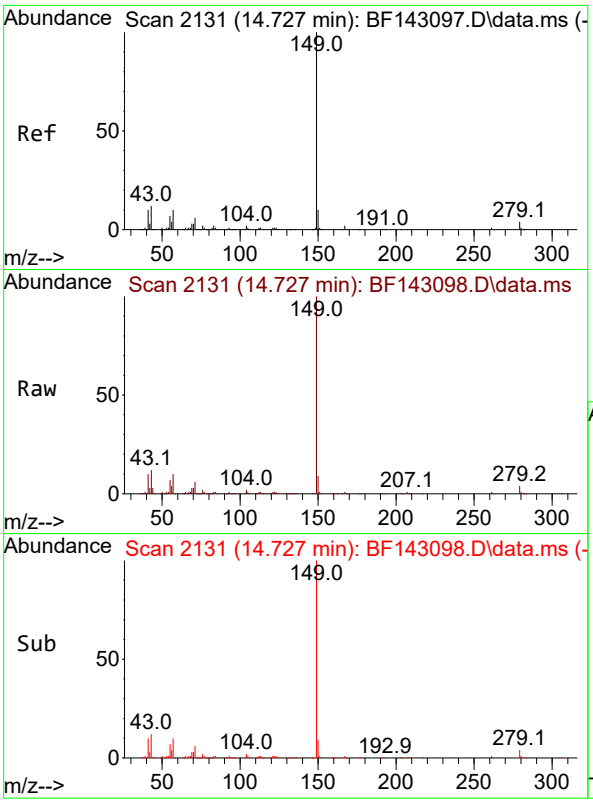


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.119 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:149 Resp: 265225

Ion	Ratio	Lower	Upper
149	100		
167	28.2	21.9	32.9
279	4.1	3.4	5.0

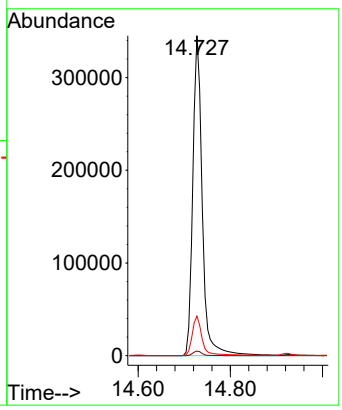




#85
Di-n-octyl phthalate
Concen: 50.100 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:149 Resp: 49284

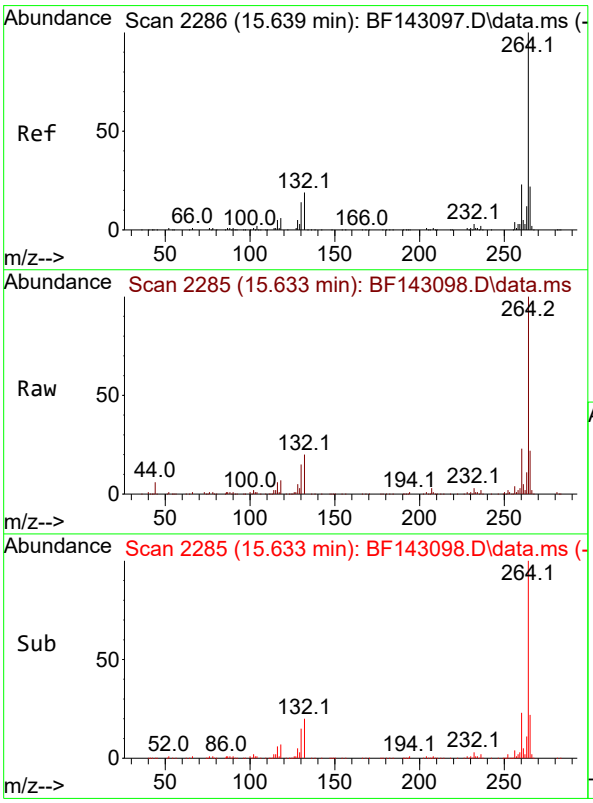
Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	13.0	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

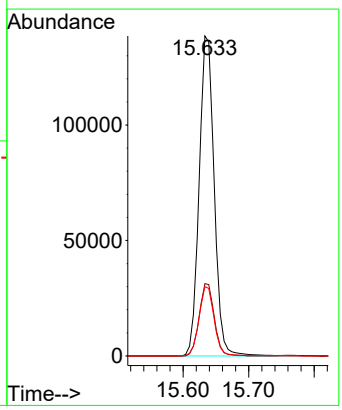
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

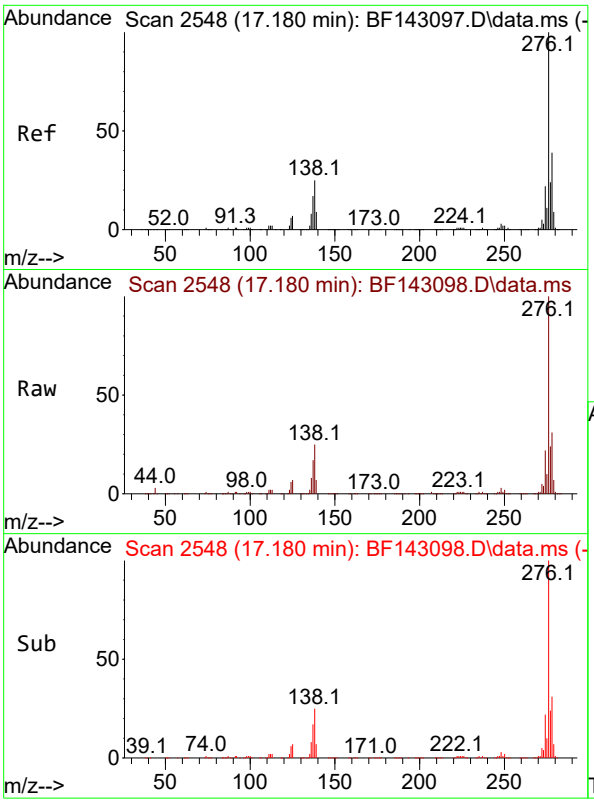


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:264 Resp: 221502

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.5	27.7
265	21.7	17.5	26.3

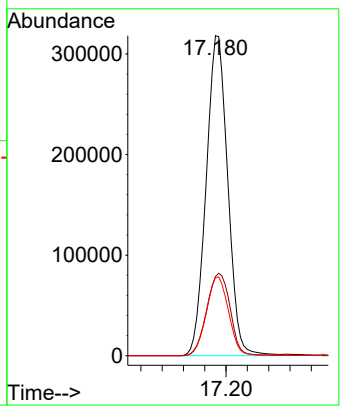




#87
Indeno(1,2,3-cd)pyrene
Concen: 54.440 ng
RT: 17.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:276 Resp: 89687

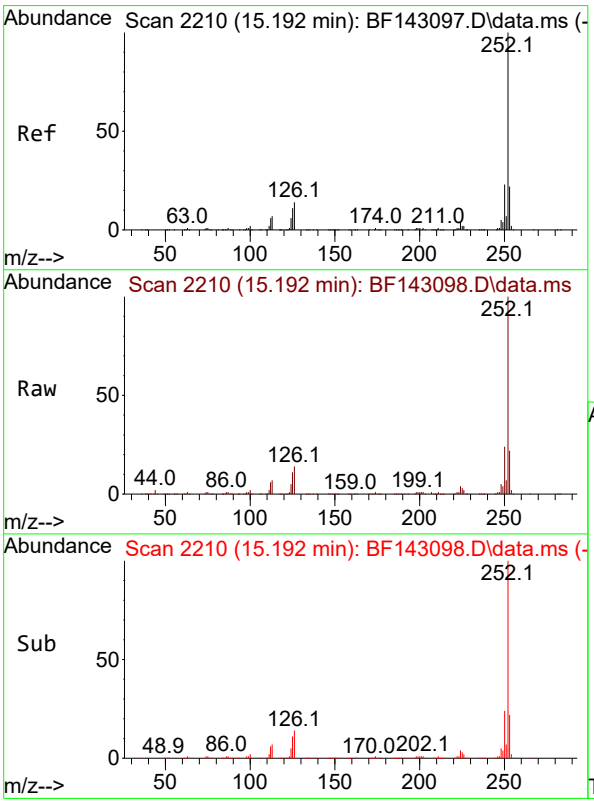
Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.6	34.0
277	25.4	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

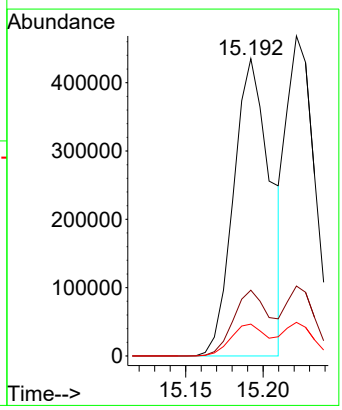
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

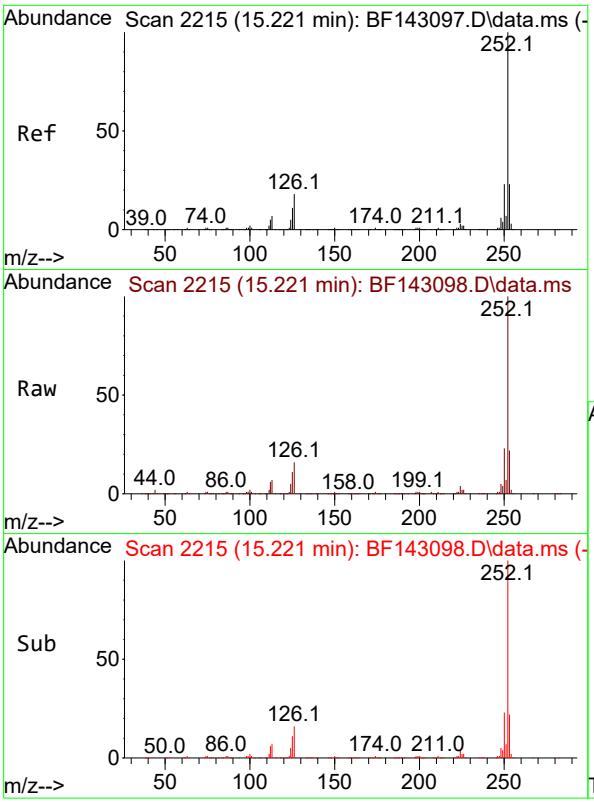


#88
Benzo(b)fluoranthene
Concen: 56.204 ng
RT: 15.192 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:252 Resp: 718106

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.7	8.6	13.0

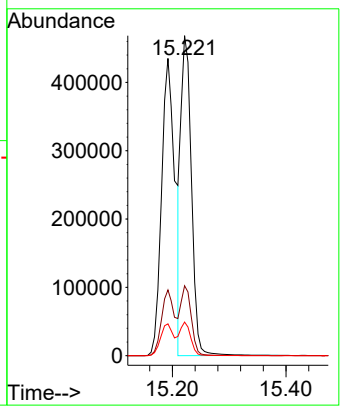




#89
Benzo(k)fluoranthene
Concen: 49.410 ng
RT: 15.221 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:252 Resp: 60226

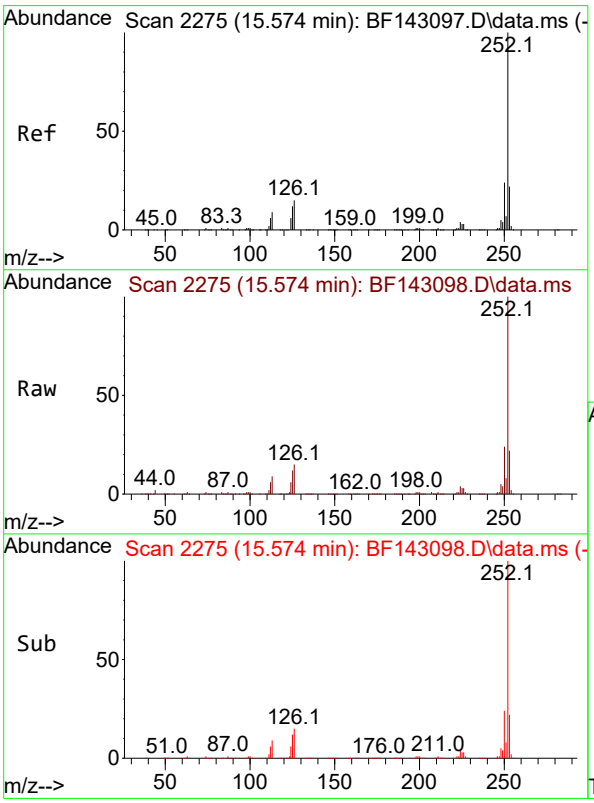
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	10.5	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

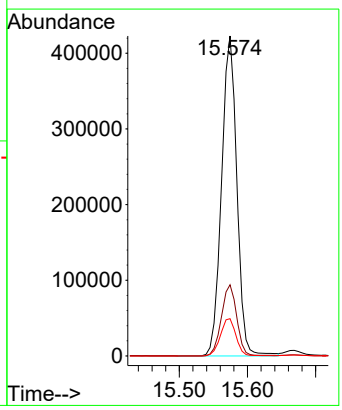
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

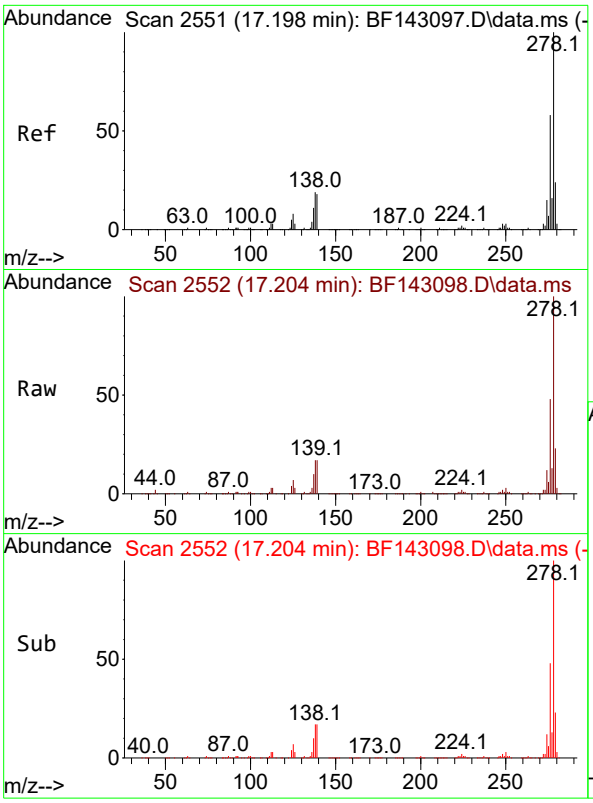


#90
Benzo(a)pyrene
Concen: 54.800 ng
RT: 15.574 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:252 Resp: 662193

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	11.6	9.4	14.0

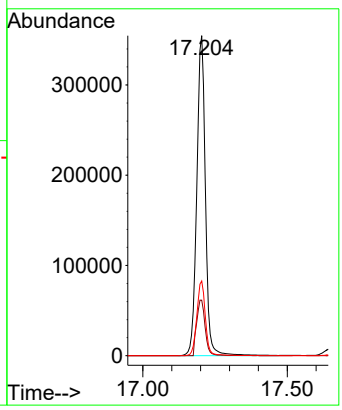




#91
Dibenzo(a,h)anthracene
Concen: 54.700 ng
RT: 17.204 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:278 Resp: 73667

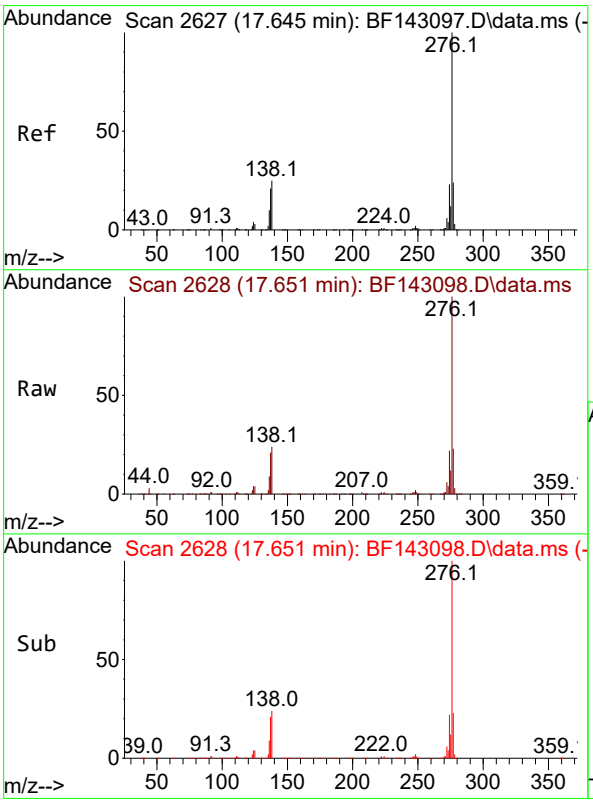
Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.6	22.0
279	23.3	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

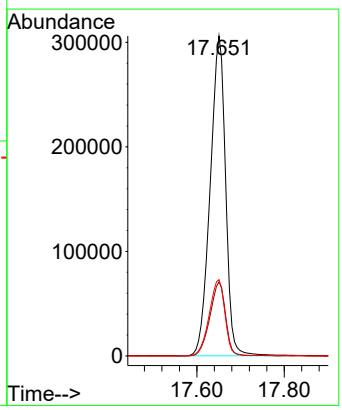
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 54.390 ng
RT: 17.651 min Scan# 2628
Delta R.T. 0.006 min
Lab File: BF143098.D
Acq: 15 Jul 2025 15:35

Tgt Ion:276 Resp: 746789

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.2	28.8
138	23.8	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143099.D
Acq On : 15 Jul 2025 16:05
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 15 17:41:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.969	152	133949	20.000	ng		0.00
21) Naphthalene-d8	8.251	136	501735	20.000	ng		0.00
39) Acenaphthene-d10	10.010	164	246002	20.000	ng		0.00
64) Phenanthrene-d10	11.492	188	380313	20.000	ng		0.00
76) Chrysene-d12	14.133	240	205942	20.000	ng		0.00
86) Perylene-d12	15.639	264	260121	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.593	112	990040	116.776	ng		0.00
7) Phenol-d6	6.593	99	1243617	116.695	ng		0.00
23) Nitrobenzene-d5	7.534	82	1172838	131.129	ng		0.00
42) 2,4,6-Tribromophenol	10.798	330	286830	130.765	ng		0.00
45) 2-Fluorobiphenyl	9.328	172	1999612	108.050	ng		0.00
79) Terphenyl-d14	13.075	244	1539271	109.260	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.810	88	251636	59.625	ng		100
3) Pyridine	3.587	79	647877	60.624	ng		99
4) n-Nitrosodimethylamine	3.534	42	337438	60.943	ng		100
6) Aniline	6.634	93	882633	58.815	ng		100
8) 2-Chlorophenol	6.757	128	516965	60.690	ng		98
9) Benzaldehyde	6.522	77	467499	57.571	ng		99
10) Phenol	6.604	94	680847m	59.015	ng		
11) bis(2-Chloroethyl)ether	6.704	93	518695	58.076	ng		99
12) 1,3-Dichlorobenzene	6.916	146	557813	57.965	ng		99
13) 1,4-Dichlorobenzene	6.987	146	556805	57.513	ng		99
14) 1,2-Dichlorobenzene	7.140	146	530965	57.510	ng		98
15) Benzyl Alcohol	7.104	79	477773	60.505	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.245	45	941009	57.157	ng		99
17) 2-Methylphenol	7.210	107	432787	58.876	ng		99
18) Hexachloroethane	7.487	117	191457	60.747	ng		99
19) n-Nitroso-di-n-propyla...	7.387	70	379882	58.184	ng		98
20) 3+4-Methylphenols	7.369	107	519658	57.645	ng		98
22) Acetophenone	7.375	105	679007	56.141	ng	#	92
24) Nitrobenzene	7.551	77	550668	63.778	ng		99
25) Isophorone	7.793	82	1033650	59.793	ng		100
26) 2-Nitrophenol	7.863	139	219665	62.382	ng		98
27) 2,4-Dimethylphenol	7.898	122	474411	59.127	ng		98
28) bis(2-Chloroethoxy)met...	7.992	93	608314	58.029	ng		100
29) 2,4-Dichlorophenol	8.104	162	408655	62.256	ng		99
30) 1,2,4-Trichlorobenzene	8.192	180	431427	57.913	ng		98
31) Naphthalene	8.275	128	1410509	56.612	ng		100
32) Benzoic acid	8.010	122	256755m	62.050	ng		
33) 4-Chloroaniline	8.316	127	574196	57.309	ng		99
34) Hexachlorobutadiene	8.398	225	265081	59.499	ng		99
35) Caprolactam	8.687	113	129583	63.219	ng		97
36) 4-Chloro-3-methylphenol	8.792	107	440907	60.299	ng		98
37) 2-Methylnaphthalene	8.963	142	846190	56.930	ng		100
38) 1-Methylnaphthalene	9.063	142	869460	56.399	ng		100
40) 1,2,4,5-Tetrachloroben...	9.134	216	414099	57.762	ng		99
41) Hexachlorocyclopentadiene	9.122	237	262731	66.101	ng		98
43) 2,4,6-Trichlorophenol	9.239	196	290245	65.157	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143099.D
Acq On : 15 Jul 2025 16:05
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:41:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.275	196	277922	59.502	ng		99
46) 1,1'-Biphenyl	9.428	154	1103990	56.274	ng		100
47) 2-Chloronaphthalene	9.451	162	826528	57.350	ng		98
48) 2-Nitroaniline	9.539	65	267636	61.259	ng		98
49) Acenaphthylene	9.869	152	1378196	57.388	ng		100
50) Dimethylphthalate	9.728	163	899456	58.118	ng		100
51) 2,6-Dinitrotoluene	9.781	165	193185	62.287	ng		93
52) Acenaphthene	10.045	154	802583	56.633	ng		99
53) 3-Nitroaniline	9.951	138	230773	69.008	ng		96
54) 2,4-Dinitrophenol	10.051	184	66479	61.314	ng	#	4
55) Dibenzofuran	10.216	168	1184002	56.052	ng		100
56) 4-Nitrophenol	10.098	139	174657	65.716	ng		96
57) 2,4-Dinitrotoluene	10.186	165	235488	60.695	ng		99
58) Fluorene	10.557	166	875218	55.265	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.328	232	238428	64.235	ng		98
60) Diethylphthalate	10.428	149	876047	58.672	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	432659	57.000	ng		99
62) 4-Nitroaniline	10.563	138	194271	66.802	ng		97
63) Azobenzene	10.704	77	946204	57.300	ng		99
65) 4,6-Dinitro-2-methylph...	10.592	198	96305	62.285	ng		98
66) n-Nitrosodiphenylamine	10.663	169	781087	58.469	ng		100
67) 4-Bromophenyl-phenylether	11.039	248	260491	60.229	ng		96
68) Hexachlorobenzene	11.110	284	273112	59.515	ng		95
69) Atrazine	11.186	200	211351	61.838	ng		99
70) Pentachlorophenol	11.292	266	165676	65.805	ng		99
71) Phenanthrene	11.516	178	1165047	56.762	ng		99
72) Anthracene	11.569	178	1188635	57.589	ng		100
73) Carbazole	11.716	167	1057291	57.179	ng		100
74) Di-n-butylphthalate	12.051	149	1074246	63.291	ng		100
75) Fluoranthene	12.704	202	1069898	57.328	ng		100
77) Benzidine	12.816	184	380587	54.244	ng		100
78) Pyrene	12.933	202	1060216	55.485	ng		99
80) Butylbenzylphthalate	13.551	149	243805	62.406	ng		98
81) Benzo(a)anthracene	14.122	228	819246	59.697	ng		99
82) 3,3'-Dichlorobenzidine	14.080	252	254086	63.758	ng		99
83) Chrysene	14.157	228	758916	60.044	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	364902	61.957	ng		100
85) Di-n-octyl phthalate	14.727	149	688940	60.817	ng		98
87) Indeno(1,2,3-cd)pyrene	17.192	276	1185702	61.286	ng		99
88) Benzo(b)fluoranthene	15.192	252	924866	61.640	ng		100
89) Benzo(k)fluoranthene	15.227	252	827274	57.794	ng		99
90) Benzo(a)pyrene	15.574	252	876856	61.791	ng		100
91) Dibenzo(a,h)anthracene	17.210	278	953666	60.300	ng		99
92) Benzo(g,h,i)perylene	17.657	276	982960	60.962	ng		99

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

ICAL Form

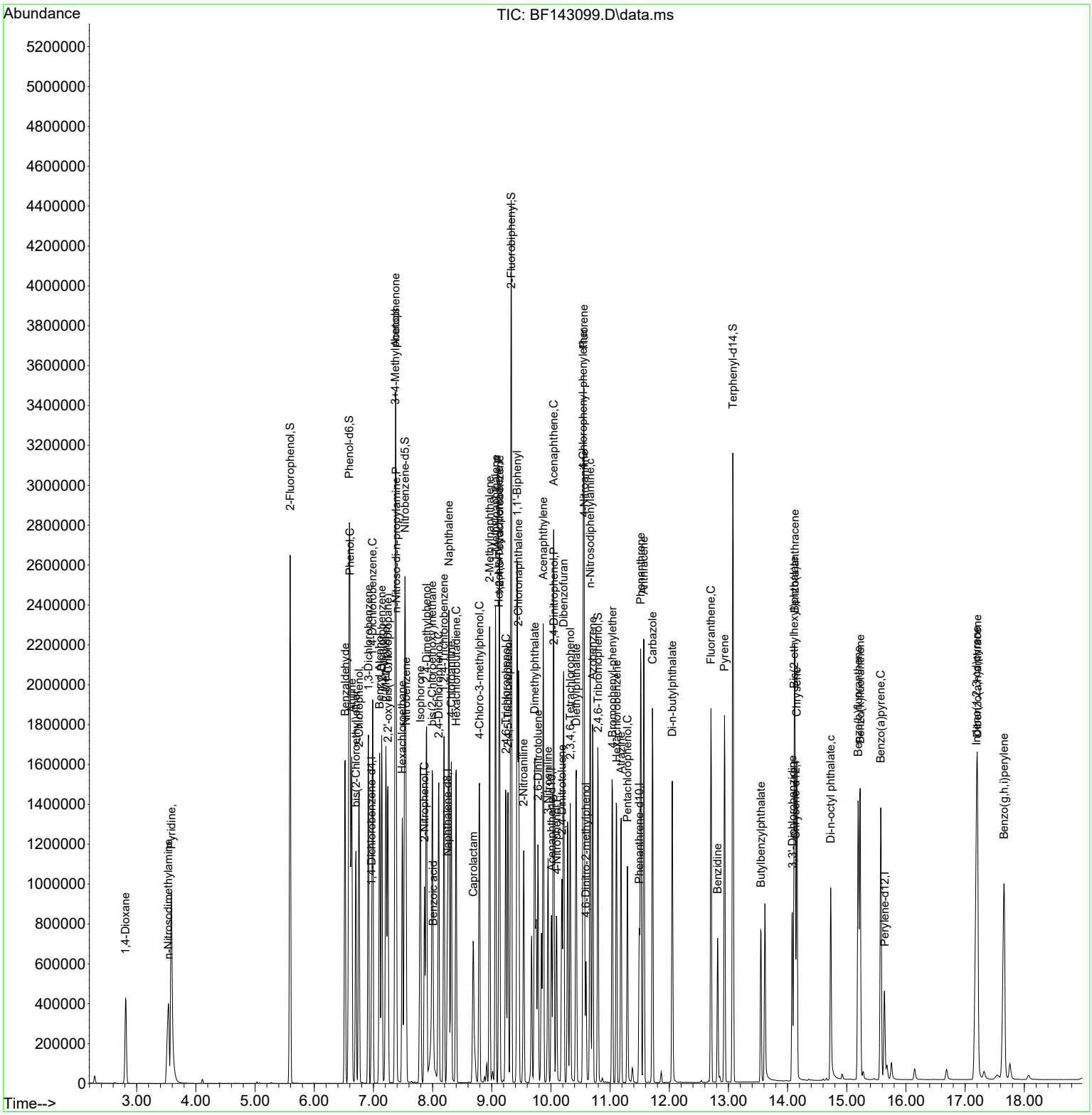
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143099.D
Acq On : 15 Jul 2025 16:05
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

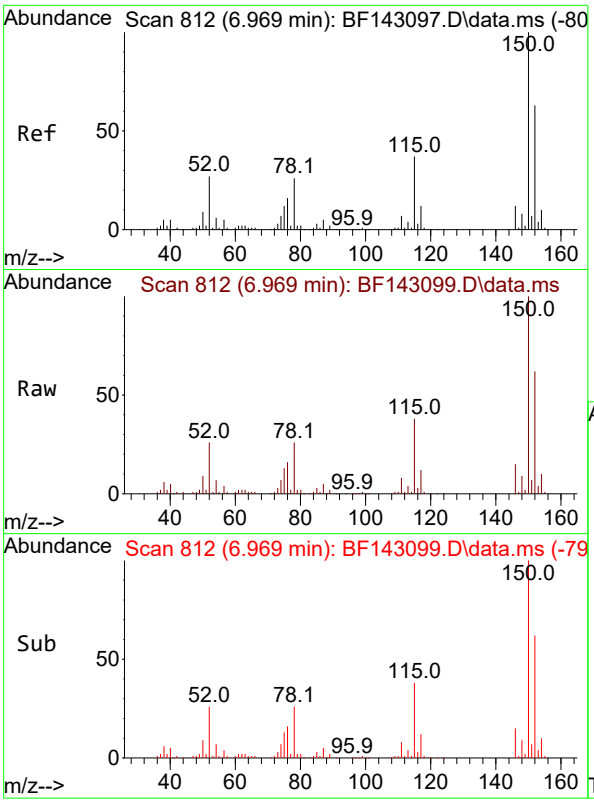
Quant Time: Jul 15 17:41:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

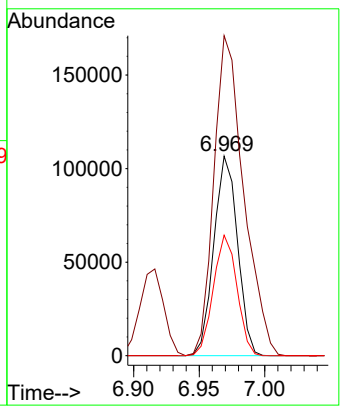




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:152 Resp: 13394

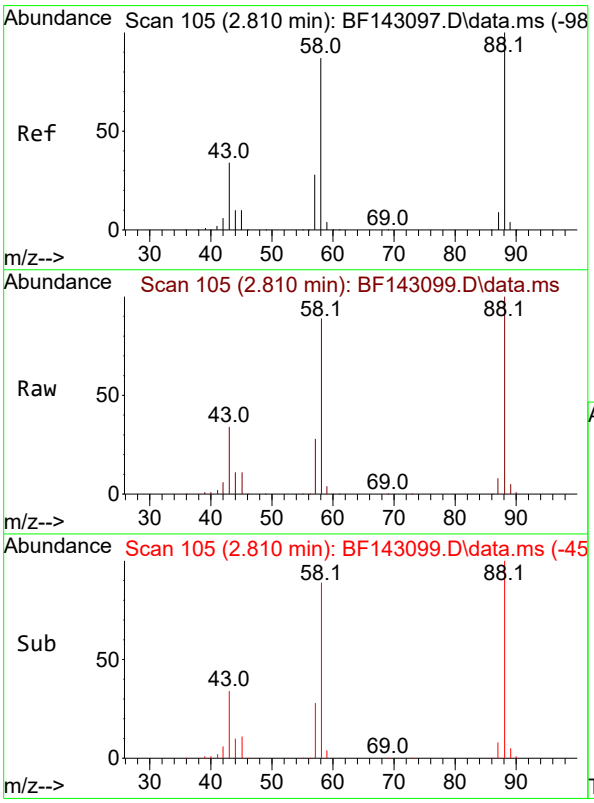
Ion	Ratio	Lower	Upper
152	100		
150	160.4	126.5	189.7
115	60.4	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

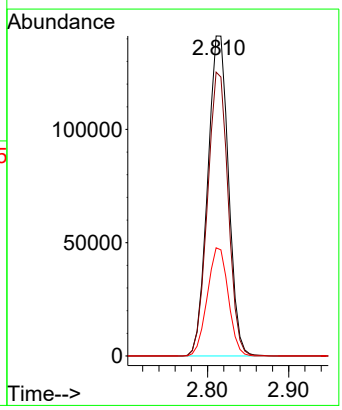
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

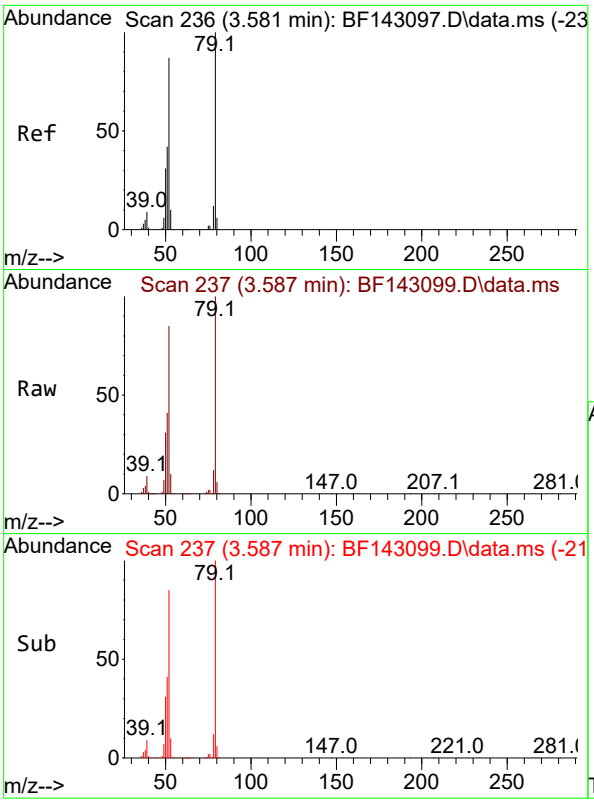


#2
1,4-Dioxane
Concen: 59.625 ng
RT: 2.810 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 88 Resp: 251636

Ion	Ratio	Lower	Upper
88	100		
58	87.7	70.5	105.7
43	34.0	27.3	40.9

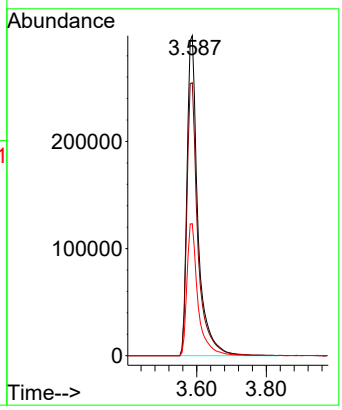




#3
Pyridine
Concen: 60.624 ng
RT: 3.587 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 79 Resp: 64787

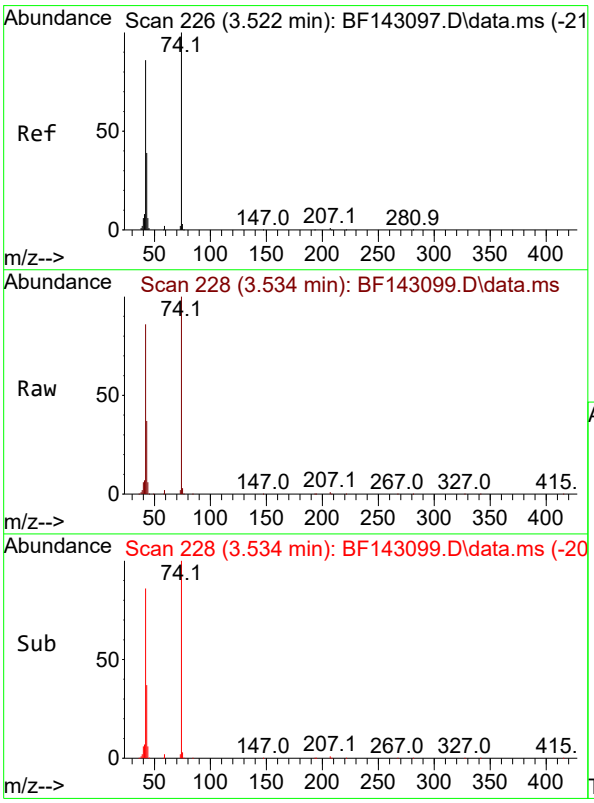
Ion	Ratio	Lower	Upper
79	100		
52	85.3	69.2	103.8
51	41.3	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

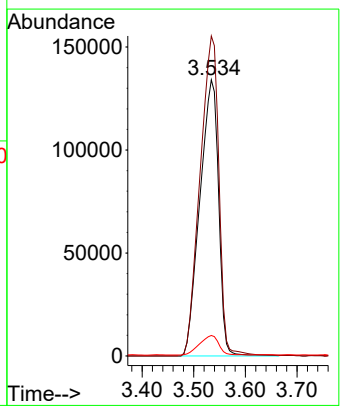
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

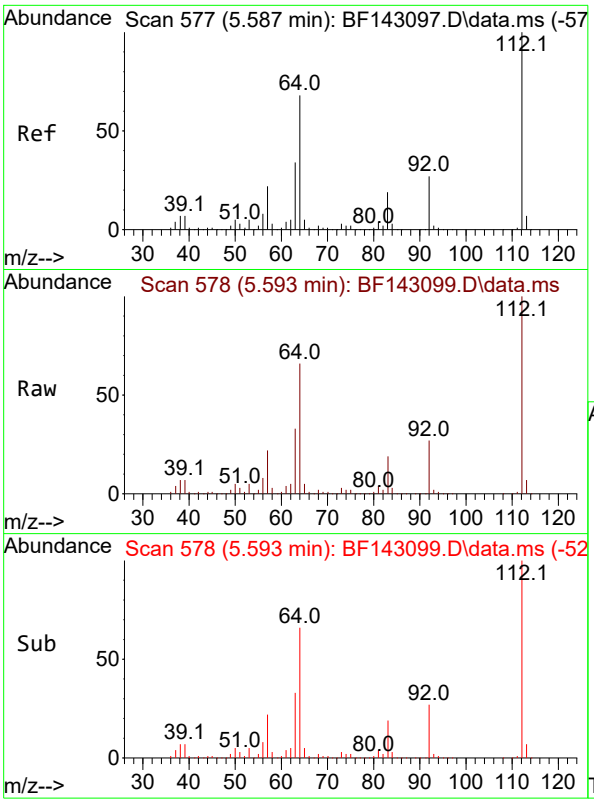


#4
n-Nitrosodimethylamine
Concen: 60.943 ng
RT: 3.534 min Scan# 228
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 42 Resp: 337438

Ion	Ratio	Lower	Upper
42	100		
74	115.8	92.8	139.2
44	7.4	5.8	8.6

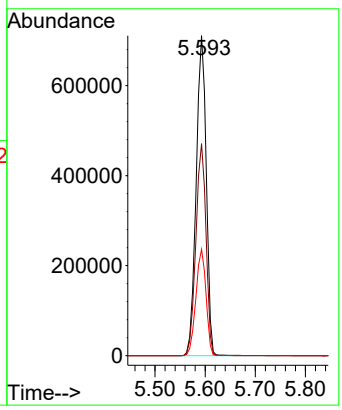




#5
2-Fluorophenol
Concen: 116.776 ng
RT: 5.593 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:112 Resp: 99004

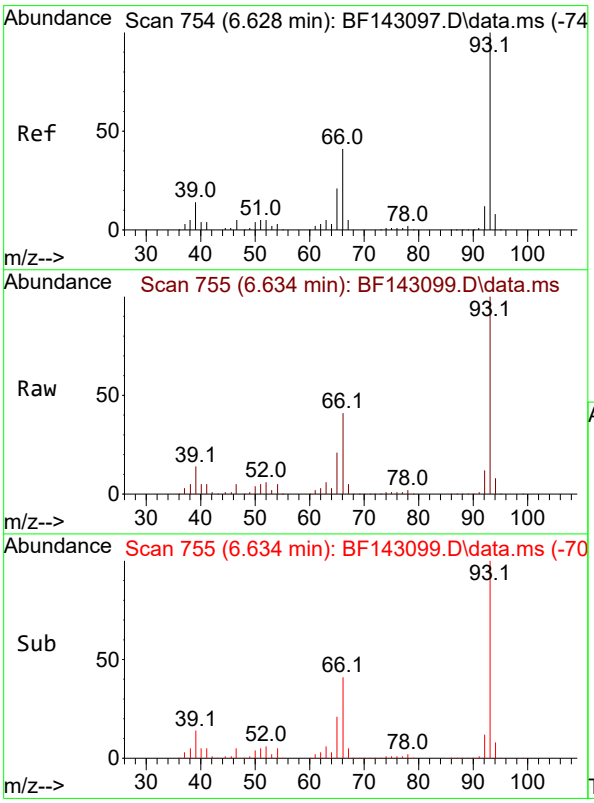
Ion	Ratio	Lower	Upper
112	100		
64	66.2	54.6	82.0
63	33.2	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

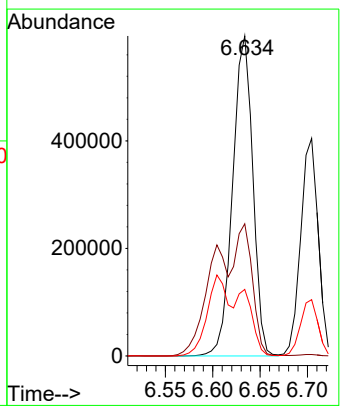
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

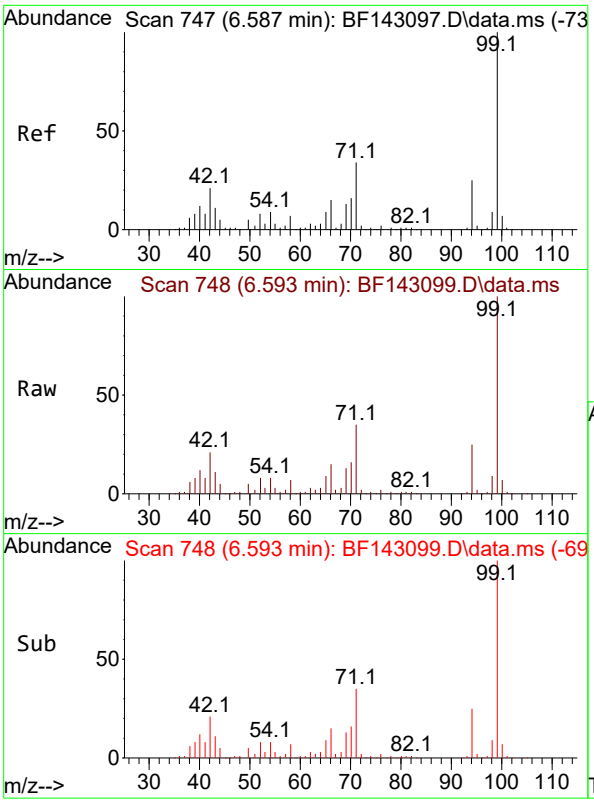


#6
Aniline
Concen: 58.815 ng
RT: 6.634 min Scan# 755
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 93 Resp: 882633

Ion	Ratio	Lower	Upper
93	100		
66	41.3	33.1	49.7
65	20.8	16.9	25.3

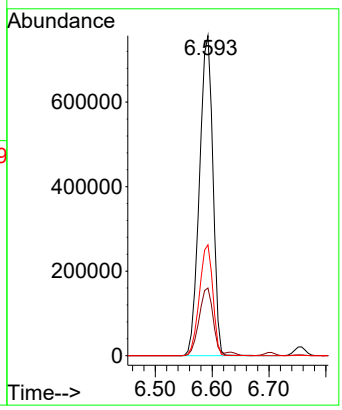




#7
Phenol-d6
Concen: 116.695 ng
RT: 6.593 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 99 Resp: 124361

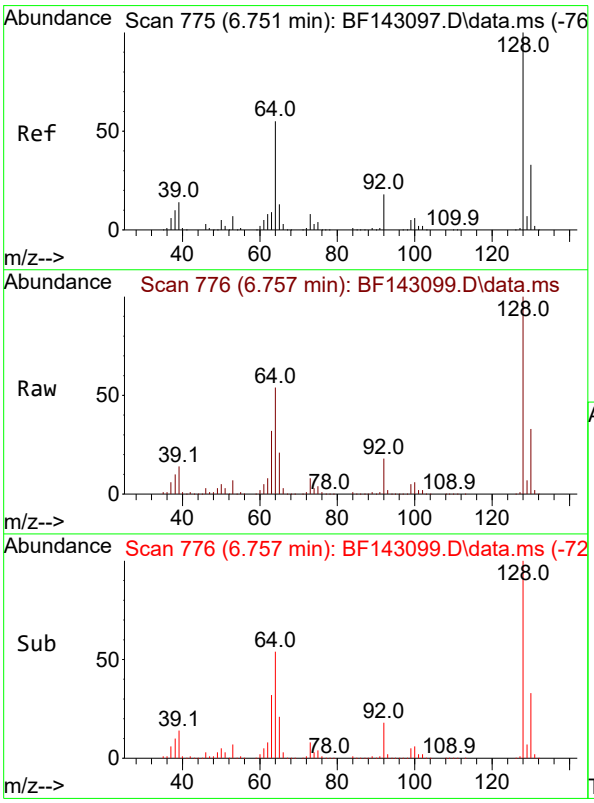
Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.2	25.8
71	34.7	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

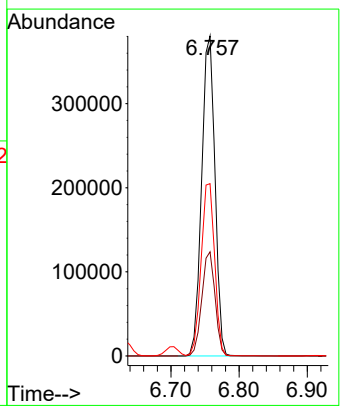
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

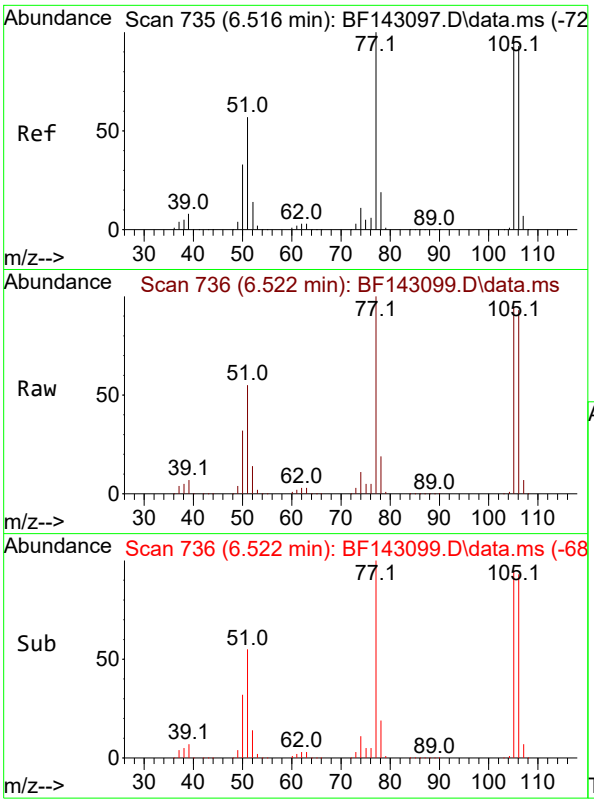


#8
2-Chlorophenol
Concen: 60.690 ng
RT: 6.757 min Scan# 776
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:128 Resp: 516965

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.8	52.8
64	53.9	36.1	76.1

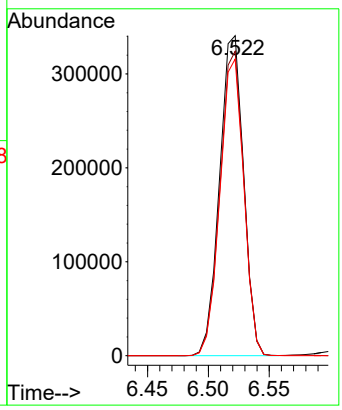




#9
Benzaldehyde
Concen: 57.571 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 77 Resp: 46749

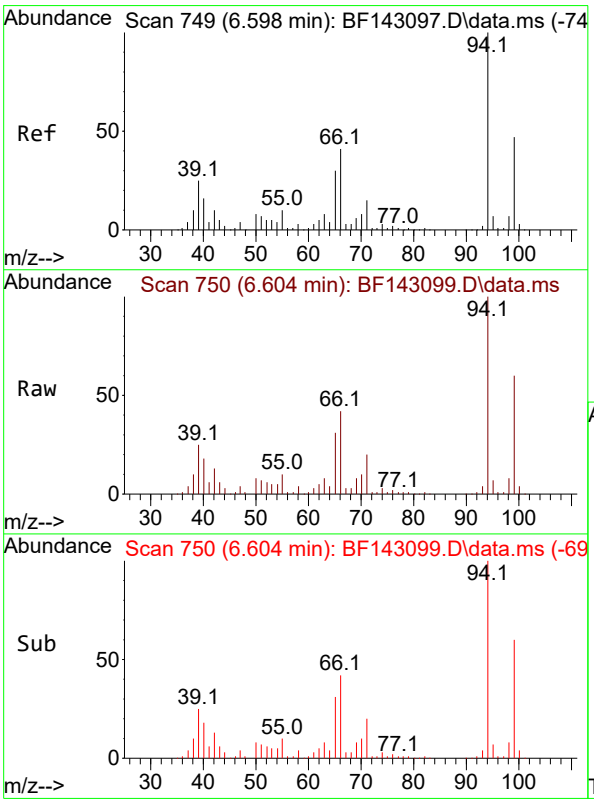
Ion	Ratio	Lower	Upper
77	100		
105	95.1	76.3	116.3
106	92.7	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

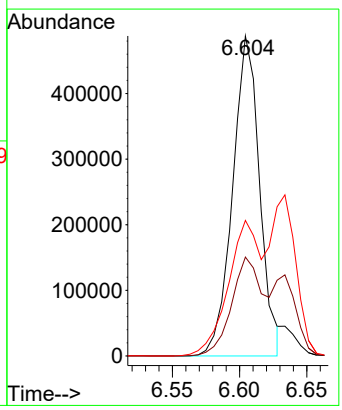
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

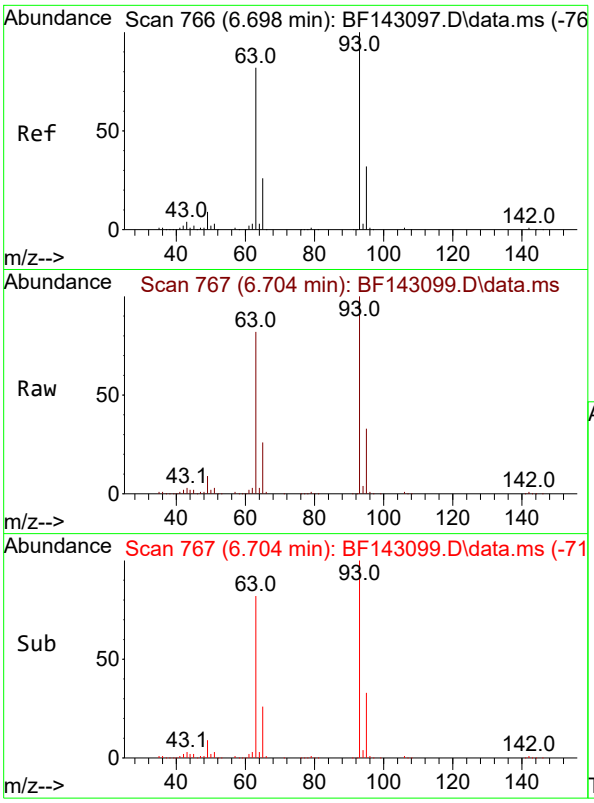


#10
Phenol
Concen: 59.015 ng m
RT: 6.604 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 94 Resp: 680847

Ion	Ratio	Lower	Upper
94	100		
65	30.9	9.8	49.8
66	42.4	20.5	60.5





#11
bis(2-Chloroethyl)ether
Concen: 58.076 ng
RT: 6.704 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

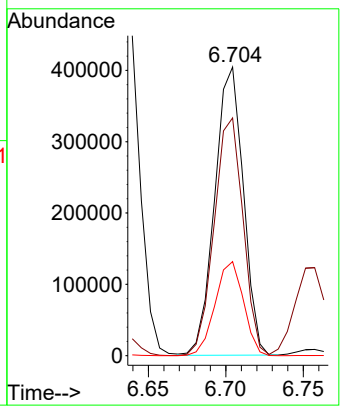
Tgt Ion: 93 Resp: 51869

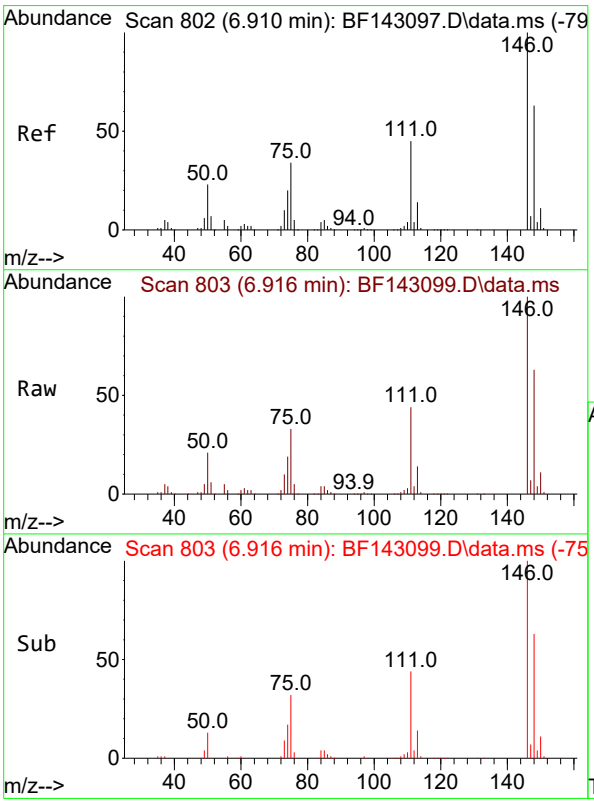
Ion	Ratio	Lower	Upper
93	100		
63	82.4	61.9	101.9
95	32.6	12.2	52.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

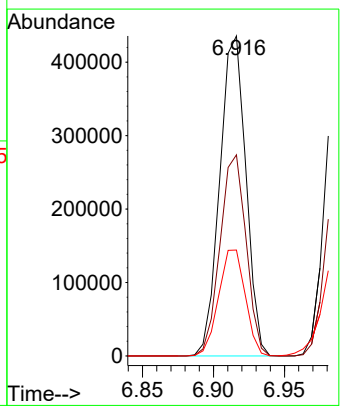


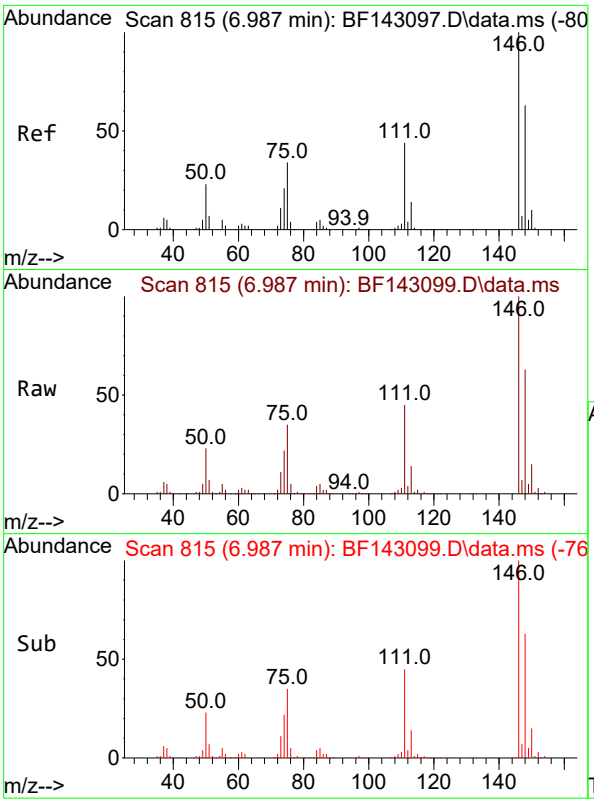


#12
1,3-Dichlorobenzene
Concen: 57.965 ng
RT: 6.916 min Scan# 803
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:146 Resp: 557813

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.1	75.1
75	33.1	27.4	41.0

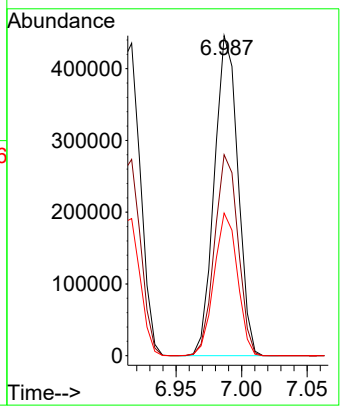




#13
1,4-Dichlorobenzene
Concen: 57.513 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:146 Resp: 55680

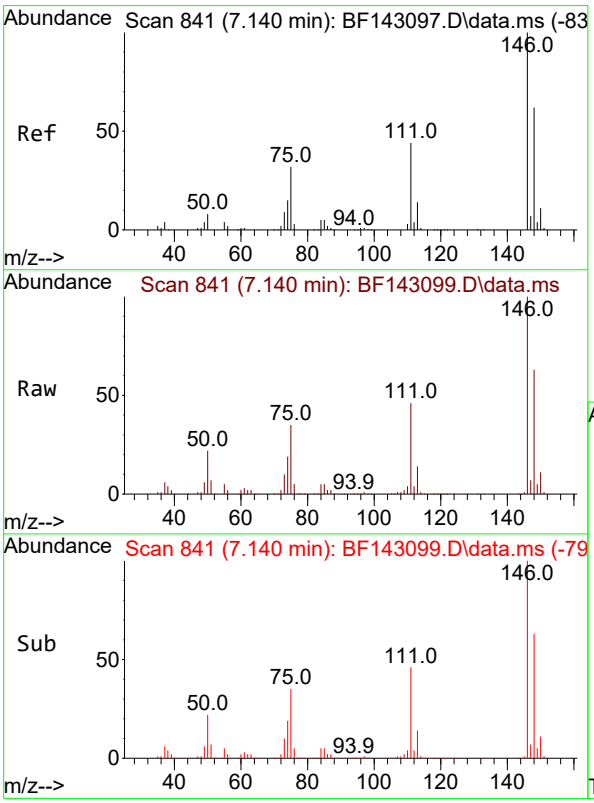
Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.6	76.0
111	44.6	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

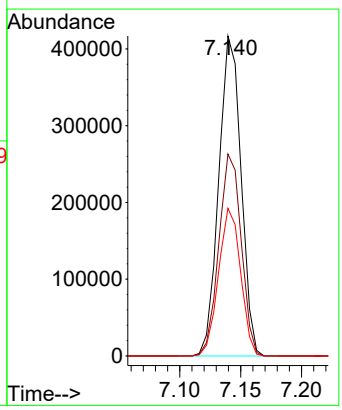
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

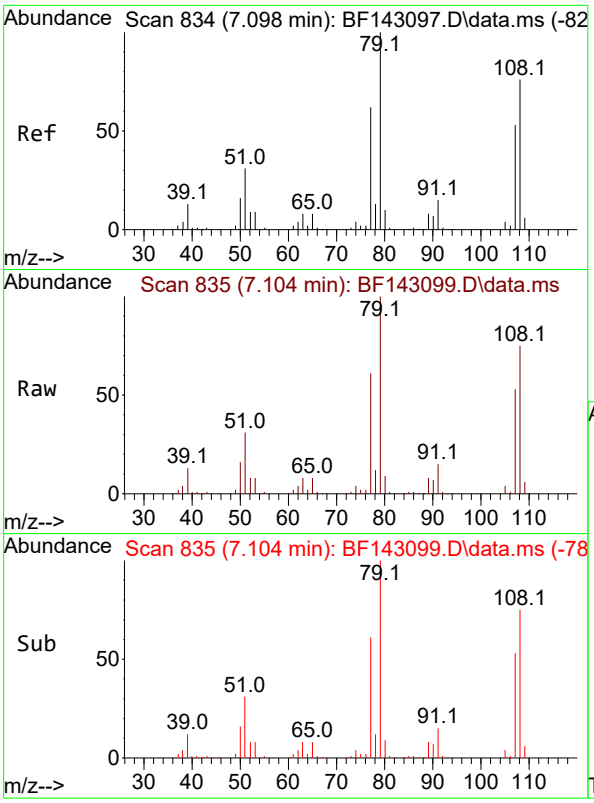


#14
1,2-Dichlorobenzene
Concen: 57.510 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:146 Resp: 530965

Ion	Ratio	Lower	Upper
146	100		
148	63.1	49.8	74.6
111	46.1	35.4	53.0

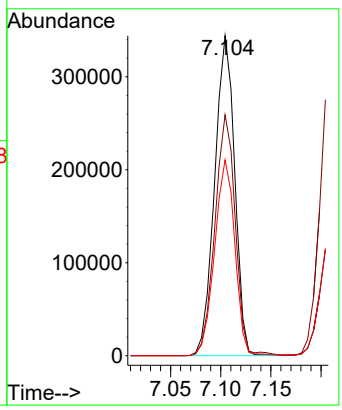




#15
Benzyl Alcohol
Concen: 60.505 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 79 Resp: 47777

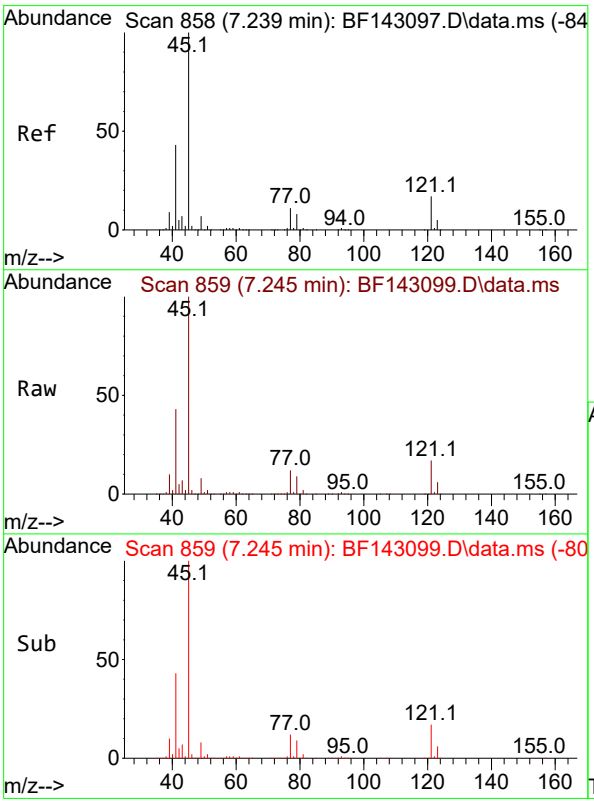
Ion	Ratio	Lower	Upper
79	100		
108	75.3	61.1	91.7
77	61.2	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

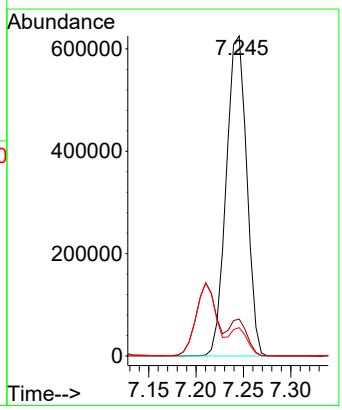
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

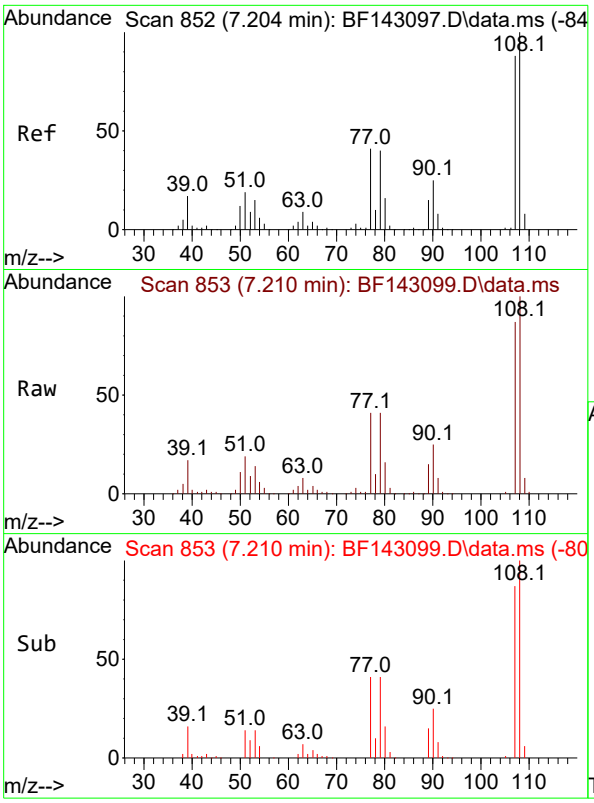


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.157 ng
RT: 7.245 min Scan# 859
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 45 Resp: 941009

Ion	Ratio	Lower	Upper
45	100		
77	11.5	0.0	31.1
79	8.9	0.0	28.4

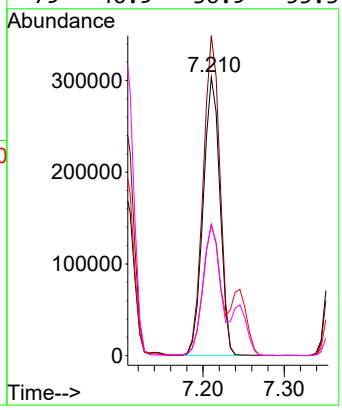




#17
2-Methylphenol
Concen: 58.876 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:107 Resp: 43278

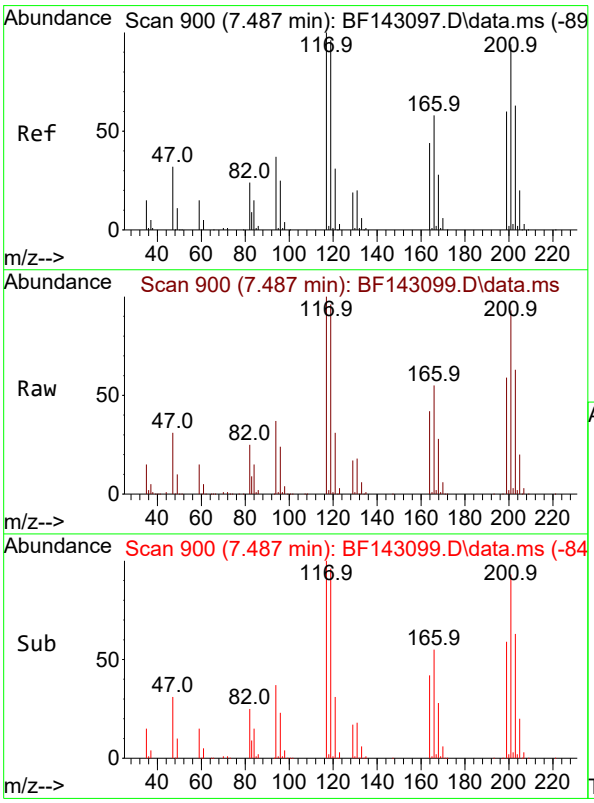
Ion	Ratio	Lower	Upper
107	100		
108	114.9	90.9	136.3
77	47.2	37.5	56.3
79	46.9	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

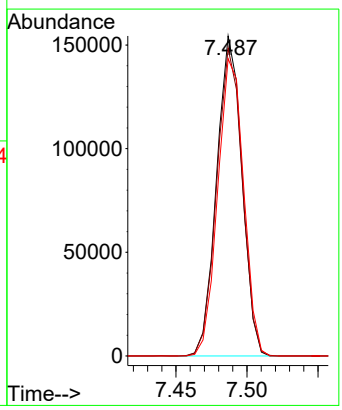
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

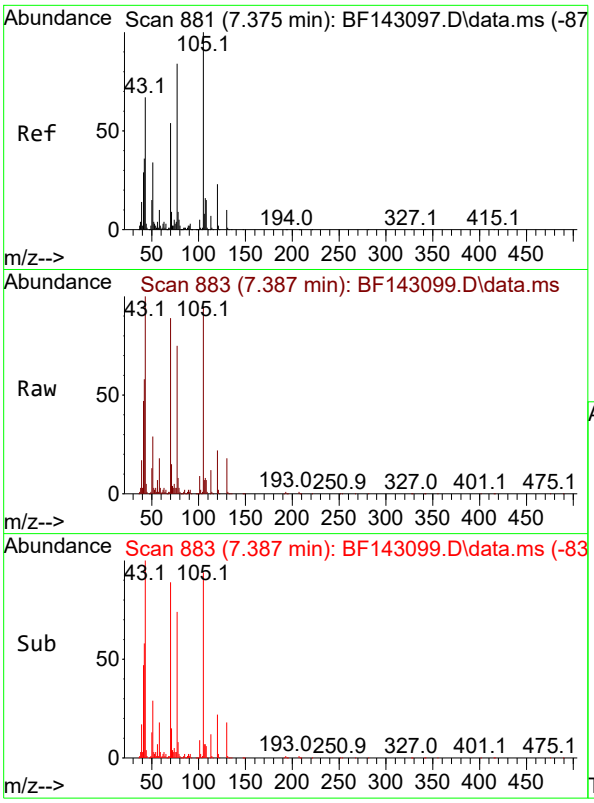


#18
Hexachloroethane
Concen: 60.747 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:117 Resp: 191457

Ion	Ratio	Lower	Upper
117	100		
119	96.2	76.7	115.1
201	92.9	75.0	112.4

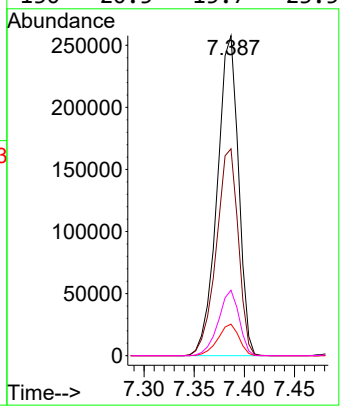




#19
n-Nitroso-di-n-propylamine
Concen: 58.184 ng
RT: 7.387 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

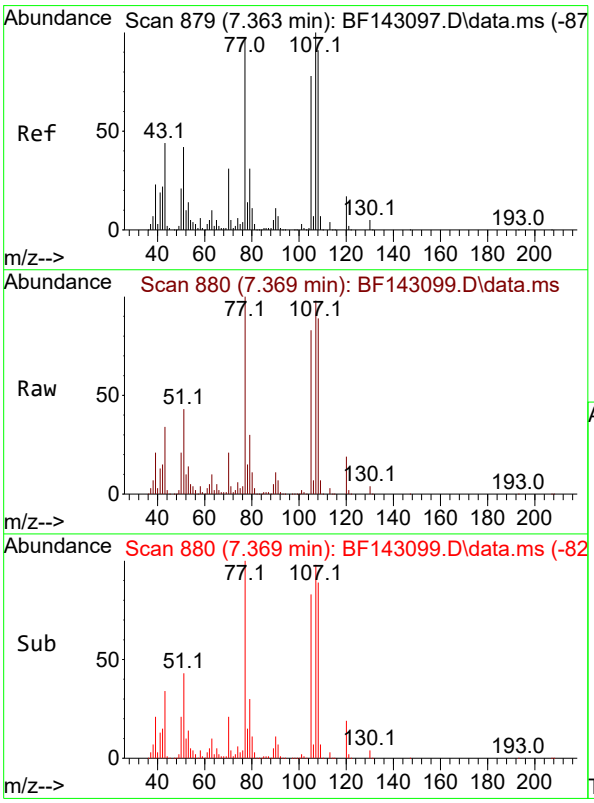
Tgt Ion: 70 Resp: 37988

Ion	Ratio	Lower	Upper
70	100		
42	64.6	53.2	79.8
101	9.9	7.5	11.3
130	20.5	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

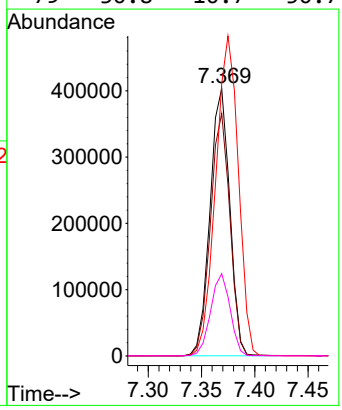
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

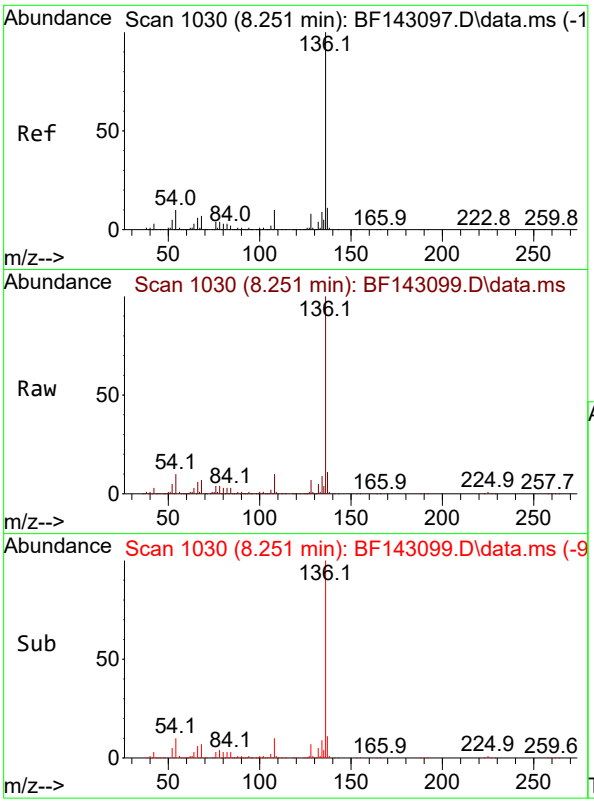


#20
3+4-Methylphenols
Concen: 57.645 ng
RT: 7.369 min Scan# 880
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:107 Resp: 519658

Ion	Ratio	Lower	Upper
107	100		
108	90.6	71.3	111.3
77	101.8	77.2	117.2
79	30.8	10.7	50.7

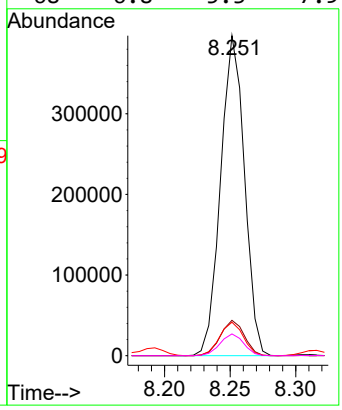




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:136 Resp: 50173

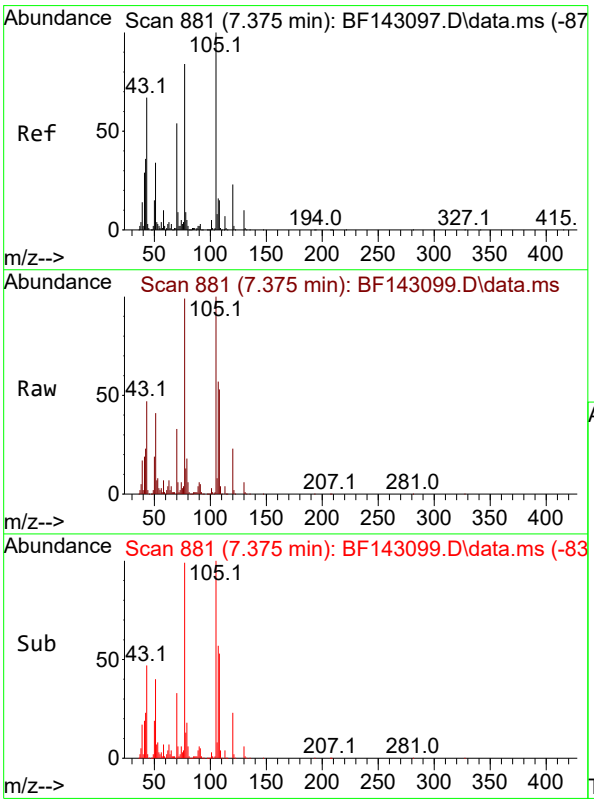
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	10.4	8.3	12.5
68	6.8	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

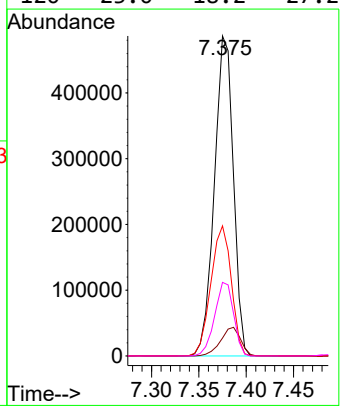
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

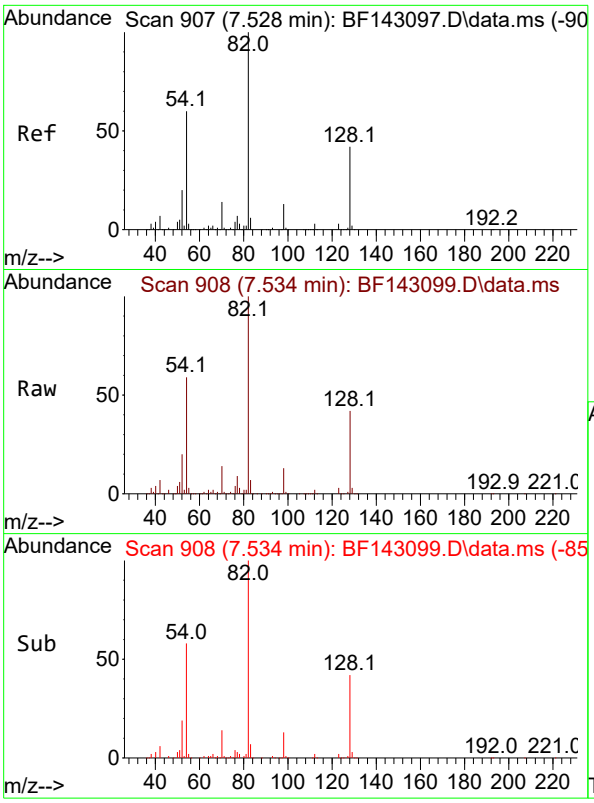


#22
Acetophenone
Concen: 56.141 ng
RT: 7.375 min Scan# 881
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:105 Resp: 679007

Ion	Ratio	Lower	Upper
105	100		
71	5.6	7.2	10.8#
51	40.7	27.0	40.4#
120	23.0	18.2	27.2

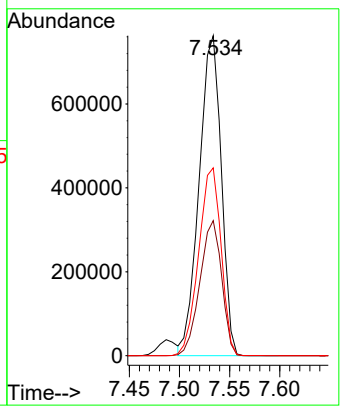




#23
Nitrobenzene-d5
Concen: 131.129 ng
RT: 7.534 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 82 Resp: 117283

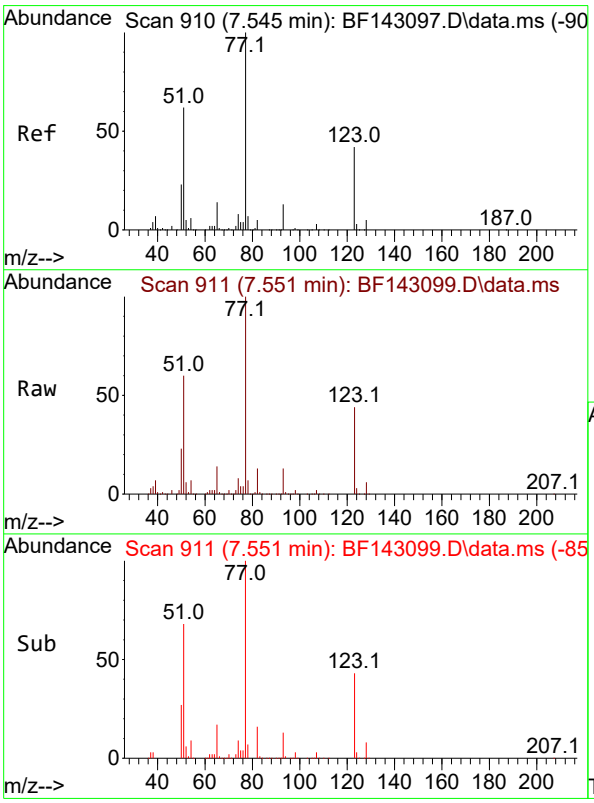
Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.3	49.9
54	58.7	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

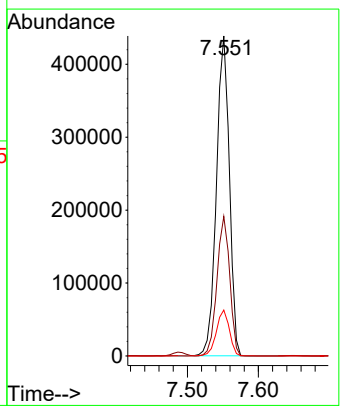
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

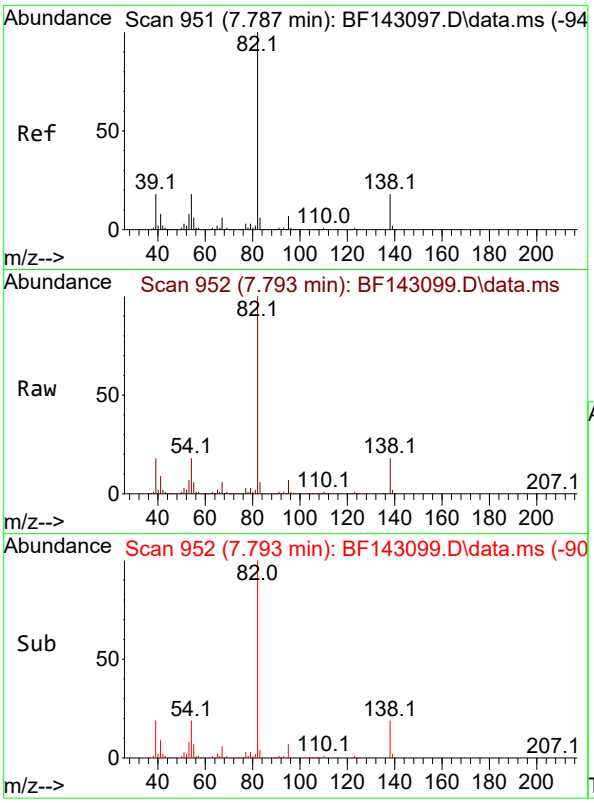


#24
Nitrobenzene
Concen: 63.778 ng
RT: 7.551 min Scan# 911
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 77 Resp: 550668

Ion	Ratio	Lower	Upper
77	100		
123	43.6	34.5	51.7
65	14.3	11.3	16.9

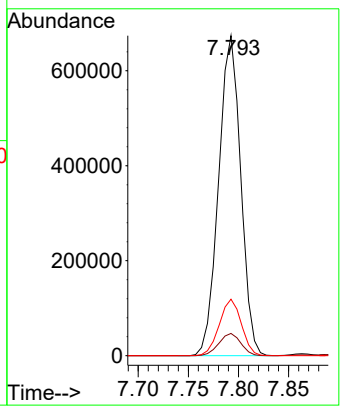




#25
Isophorone
Concen: 59.793 ng
RT: 7.793 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 82 Resp: 103365

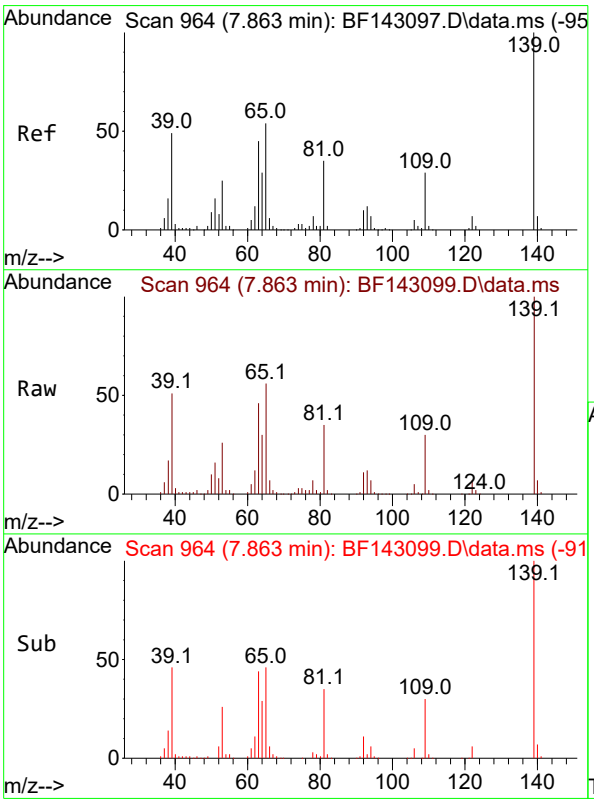
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	17.6	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

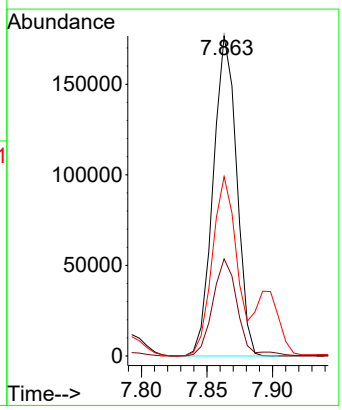
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

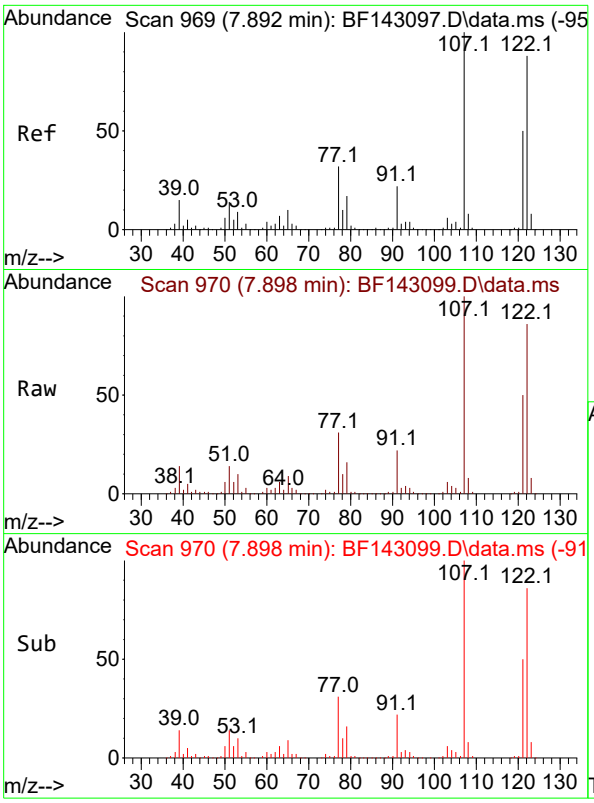


#26
2-Nitrophenol
Concen: 62.382 ng
RT: 7.863 min Scan# 964
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:139 Resp: 219665

Ion	Ratio	Lower	Upper
139	100		
109	30.4	23.4	35.0
65	56.1	43.4	65.2

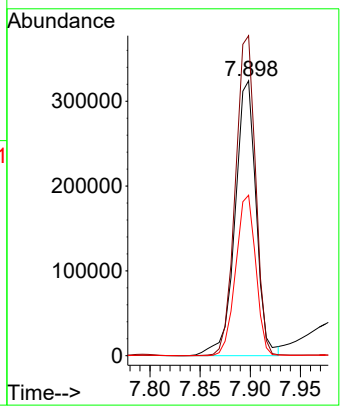




#27
2,4-Dimethylphenol
Concen: 59.127 ng
RT: 7.898 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:122 Resp: 47441

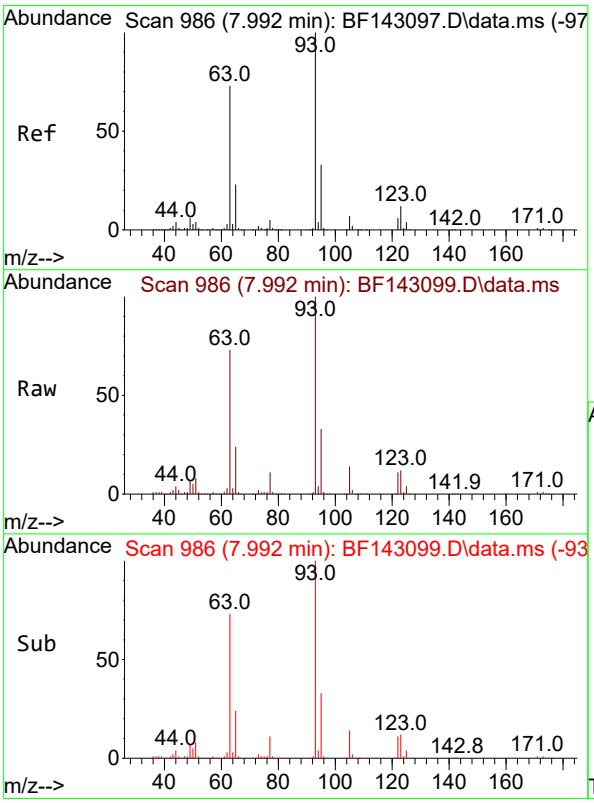
Ion	Ratio	Lower	Upper
122	100		
107	116.4	91.3	136.9
121	58.4	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

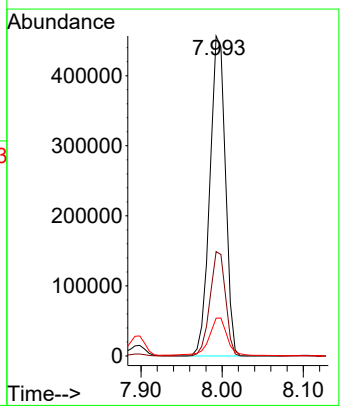
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

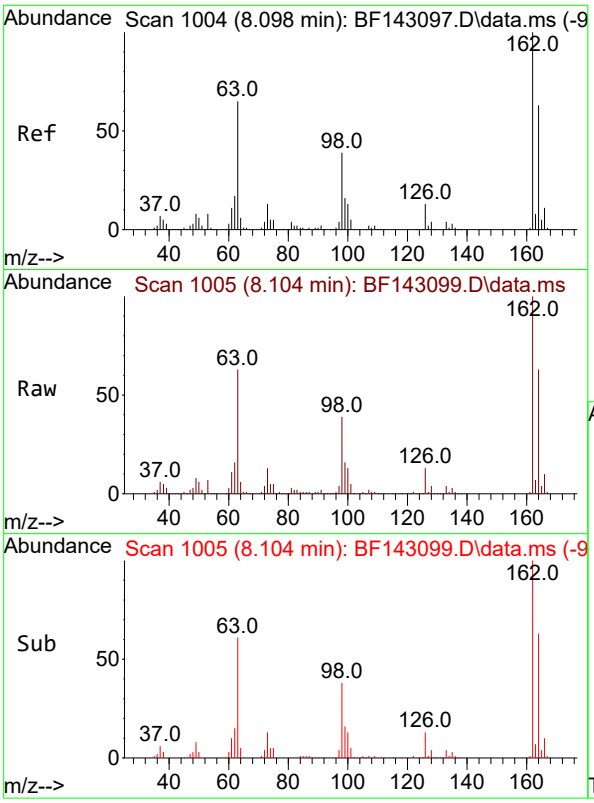


#28
bis(2-Chloroethoxy)methane
Concen: 58.029 ng
RT: 7.992 min Scan# 986
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 93 Resp: 608314

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	11.8	9.6	14.4

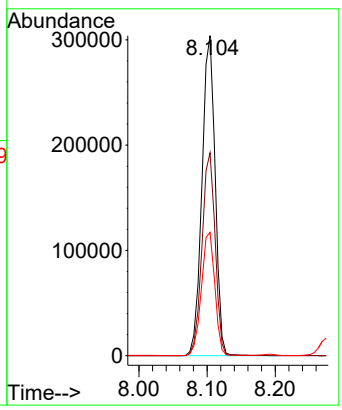




#29
2,4-Dichlorophenol
Concen: 62.256 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:162 Resp: 40865

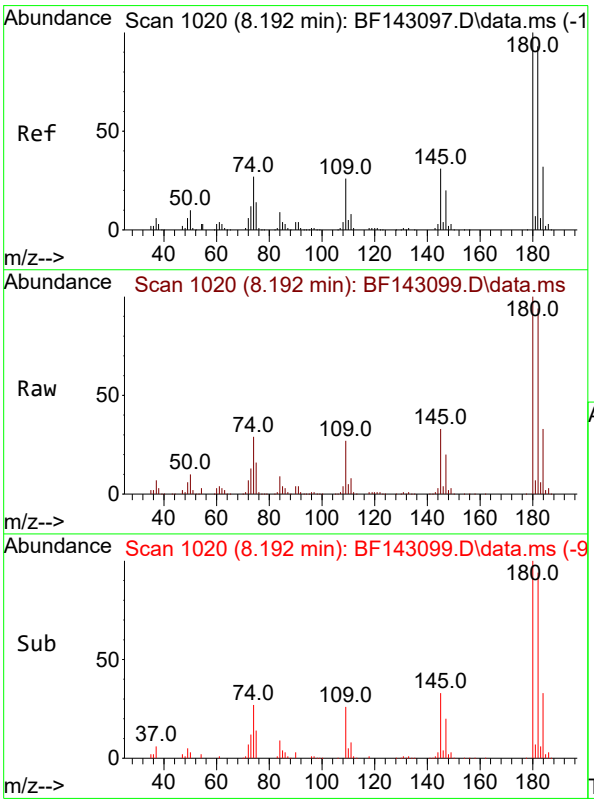
Ion	Ratio	Lower	Upper
162	100		
164	63.4	43.1	83.1
98	38.5	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

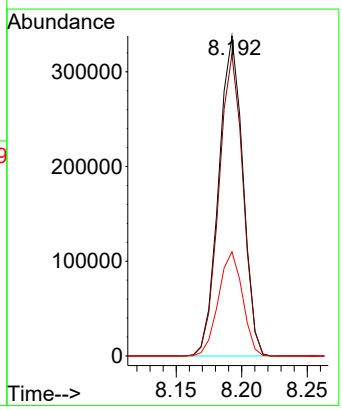
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

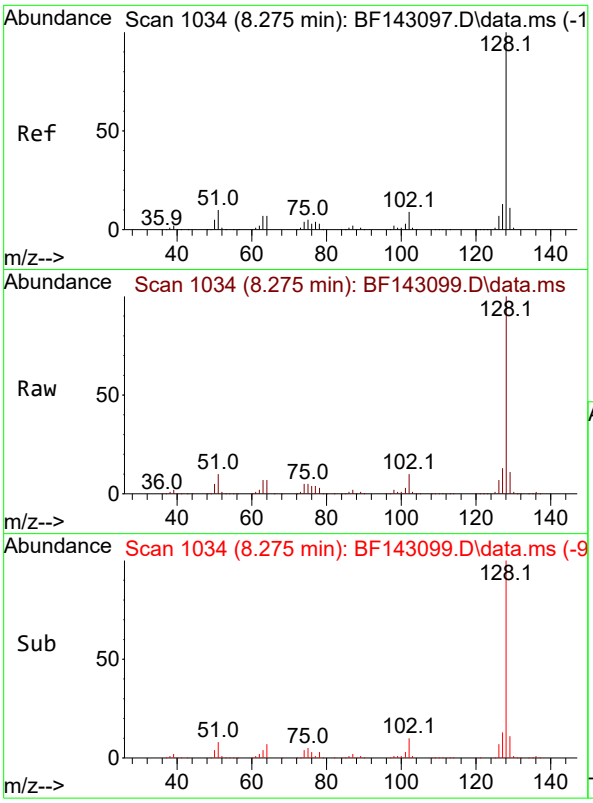


#30
1,2,4-Trichlorobenzene
Concen: 57.913 ng
RT: 8.192 min Scan# 1020
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:180 Resp: 431427

Ion	Ratio	Lower	Upper
180	100		
182	94.3	74.7	112.1
145	32.6	24.5	36.7

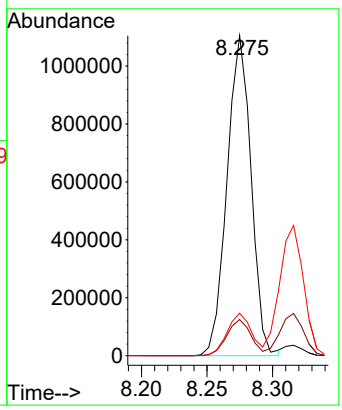




#31
Naphthalene
Concen: 56.612 ng
RT: 8.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:128 Resp: 141050

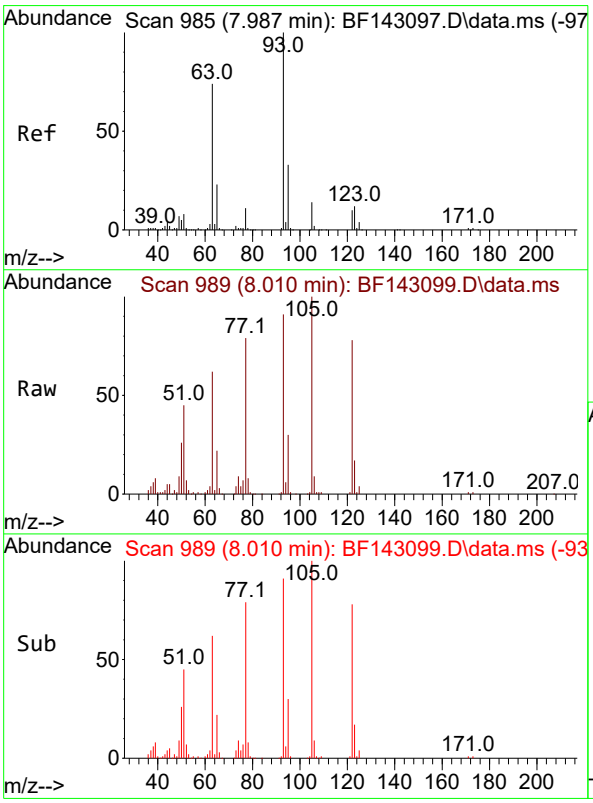
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	13.3	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

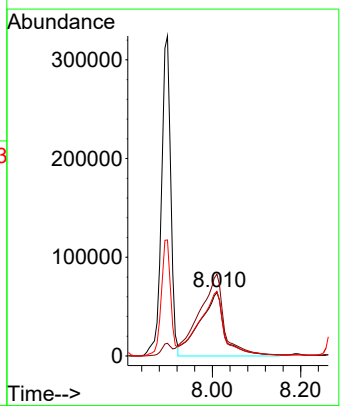
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

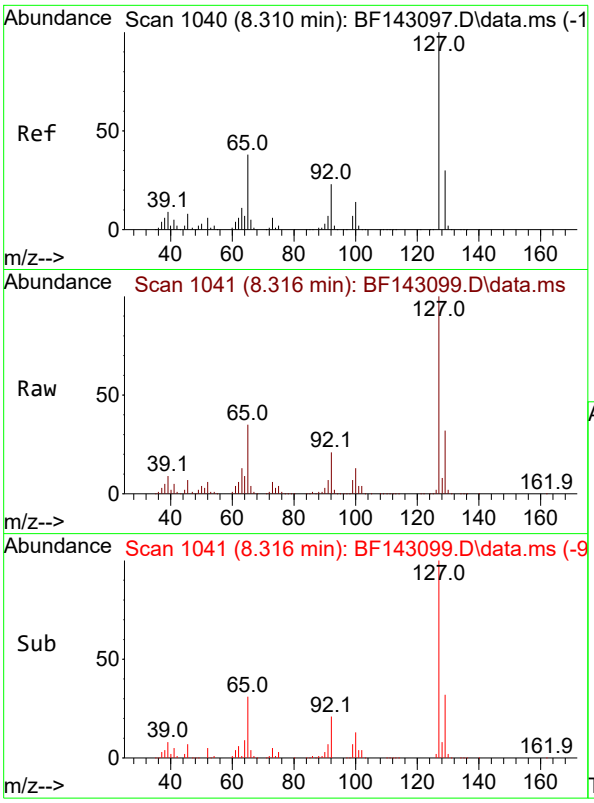


#32
Benzoic acid
Concen: 62.050 ng m
RT: 8.010 min Scan# 989
Delta R.T. 0.023 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:122 Resp: 256755

Ion	Ratio	Lower	Upper
122	100		
105	128.8	105.4	145.4
77	101.6	78.6	118.6

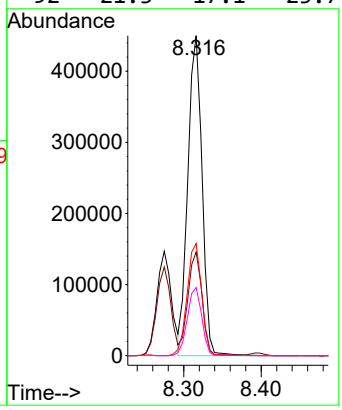




#33
4-Chloroaniline
Concen: 57.309 ng
RT: 8.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:127 Resp: 57419

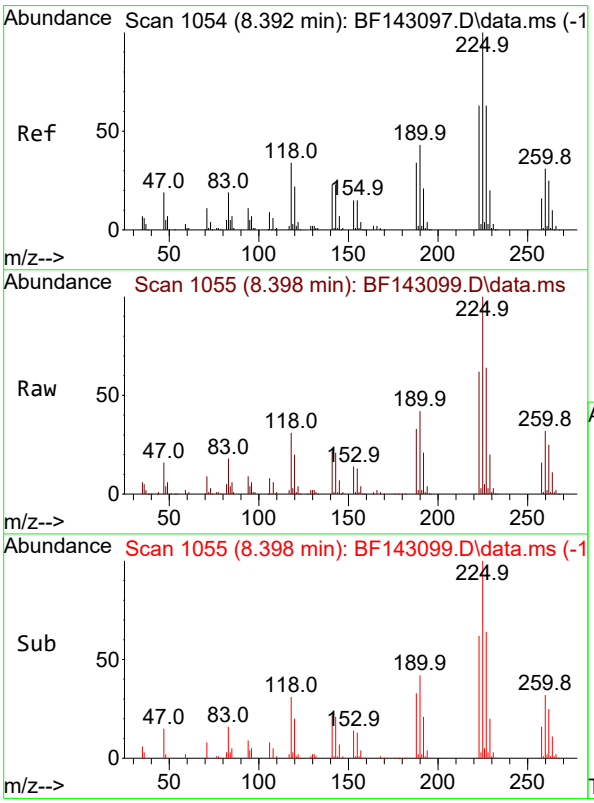
Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.2	39.4
65	35.1	28.6	42.8
92	21.3	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

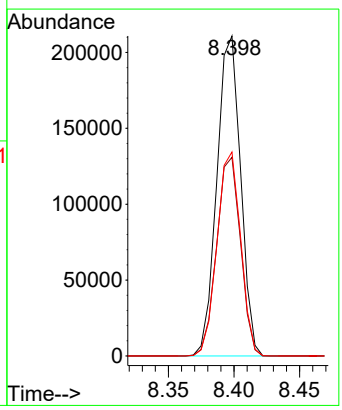
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

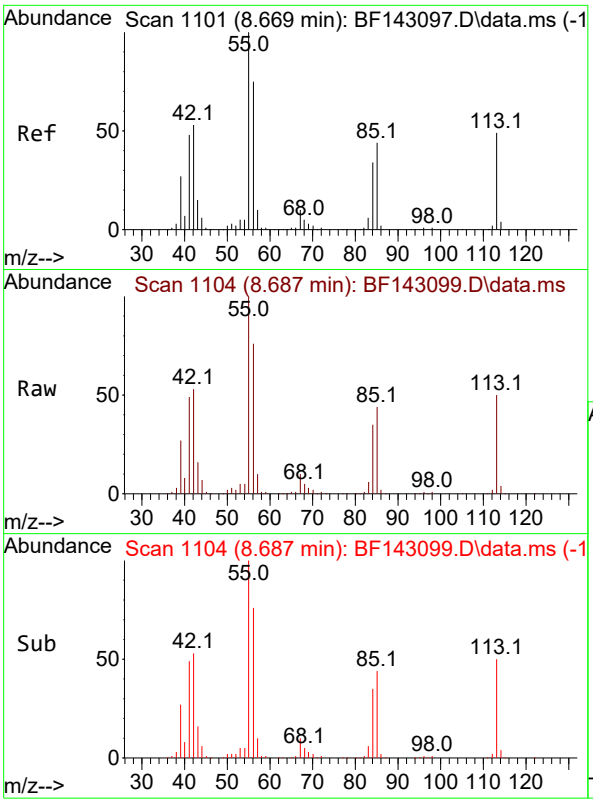


#34
Hexachlorobutadiene
Concen: 59.499 ng
RT: 8.398 min Scan# 1055
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:225 Resp: 265081

Ion	Ratio	Lower	Upper
225	100		
223	62.1	50.3	75.5
227	63.7	50.1	75.1

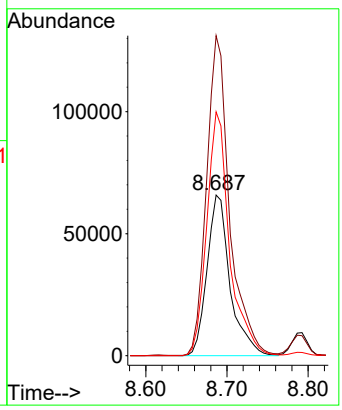




#35
Caprolactam
Concen: 63.219 ng
RT: 8.687 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:113 Resp: 12958

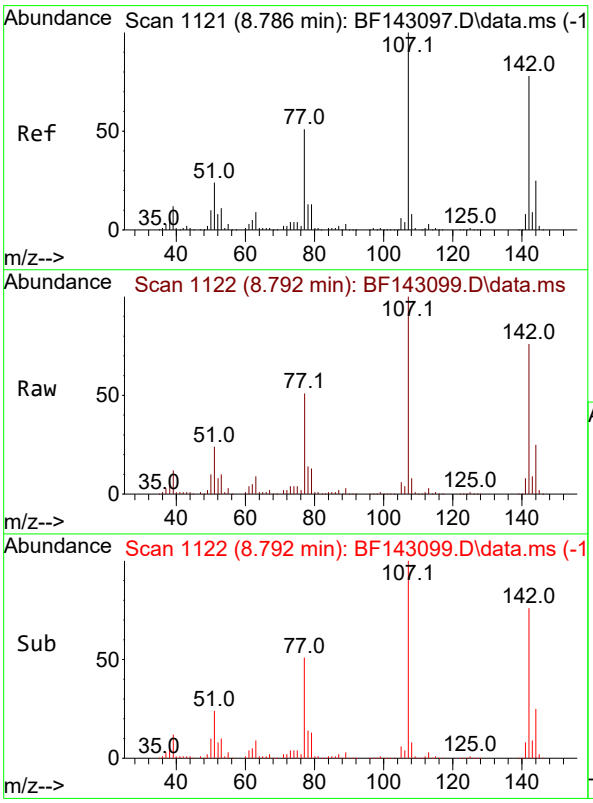
Ion	Ratio	Lower	Upper
113	100		
55	199.1	186.2	226.2
56	151.7	134.1	174.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

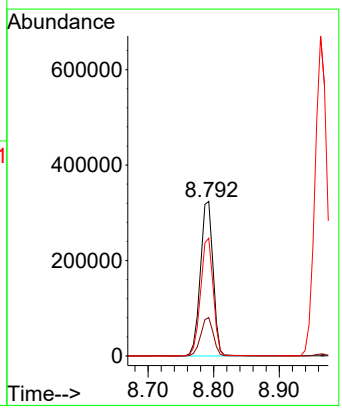
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

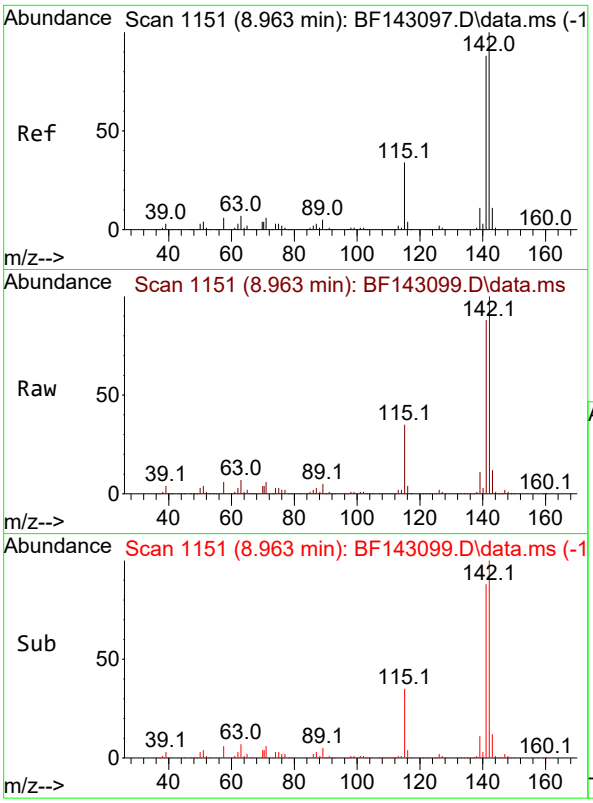


#36
4-Chloro-3-methylphenol
Concen: 60.299 ng
RT: 8.792 min Scan# 1122
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:107 Resp: 440907

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.2	30.2
142	76.3	62.4	93.6





#37
2-Methylnaphthalene
Concen: 56.930 ng
RT: 8.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

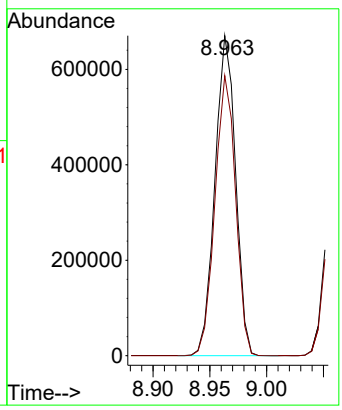
Tgt Ion:142 Resp: 84619

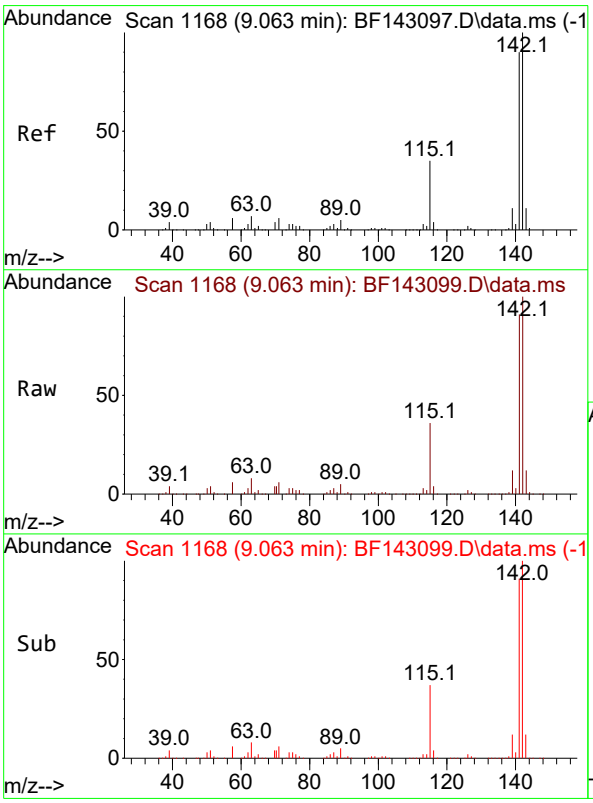
Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.2	105.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

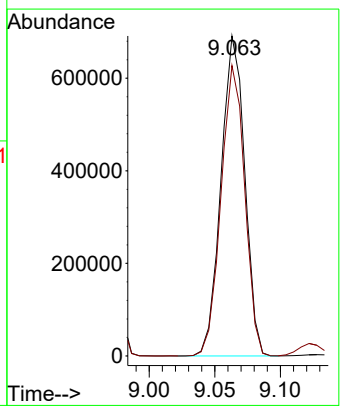


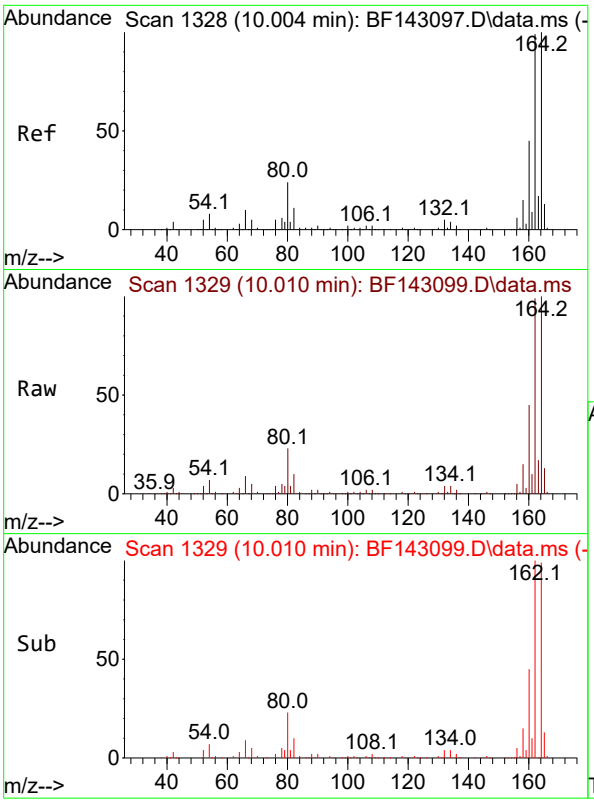


#38
1-Methylnaphthalene
Concen: 56.399 ng
RT: 9.063 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:142 Resp: 869460

Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.2	108.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.010 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

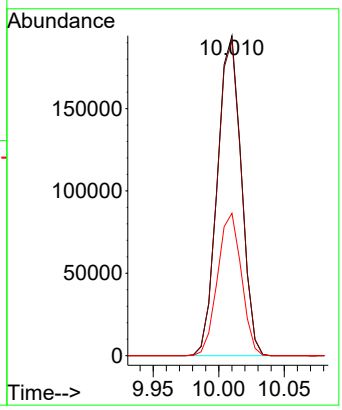
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

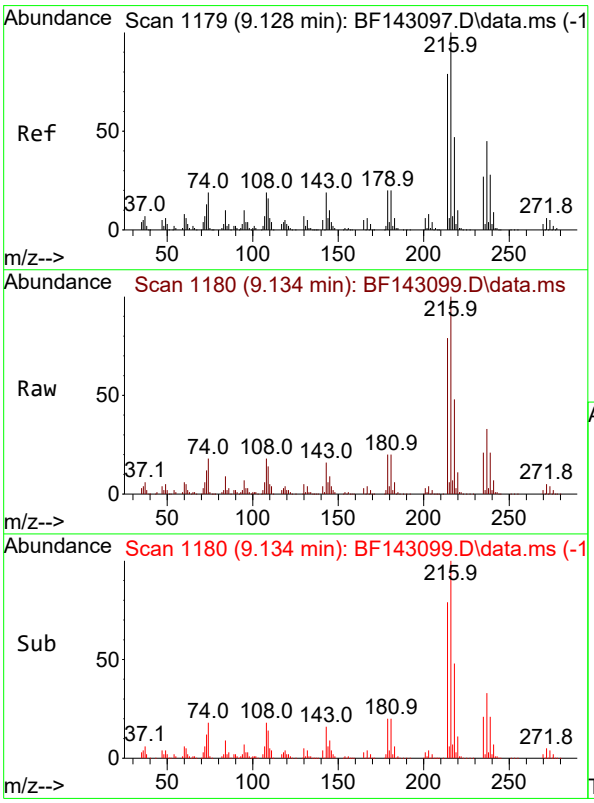
Tgt Ion:164 Resp: 24600

Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.0	118.6
160	44.5	35.8	53.6

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

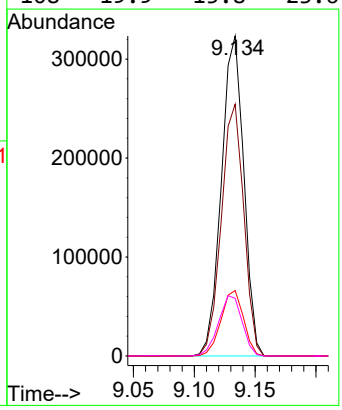


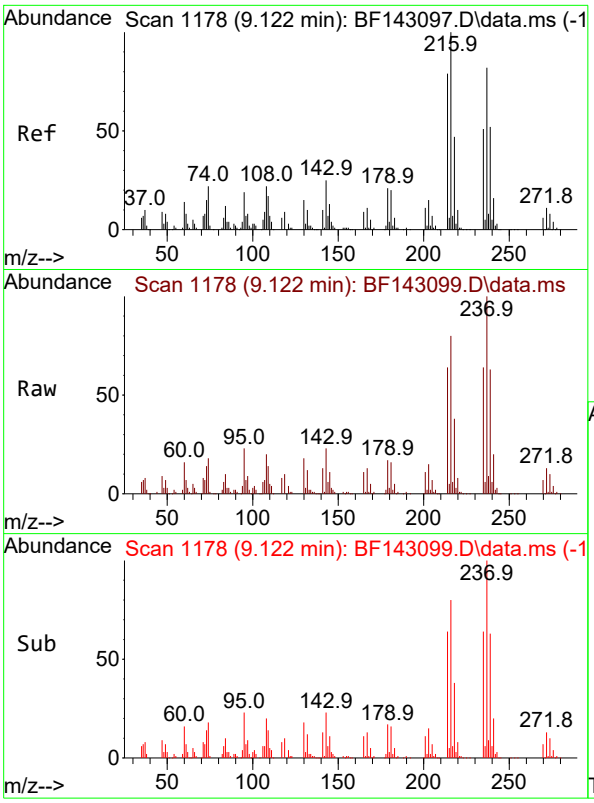


#40
1,2,4,5-Tetrachlorobenzene
Concen: 57.762 ng
RT: 9.134 min Scan# 1180
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:216 Resp: 414099

Ion	Ratio	Lower	Upper
216	100		
214	78.8	62.6	94.0
179	20.6	16.2	24.2
108	19.9	15.8	23.6

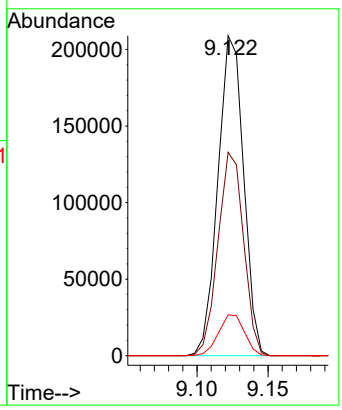




#41
Hexachlorocyclopentadiene
Concen: 66.101 ng
RT: 9.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:237 Resp: 26273

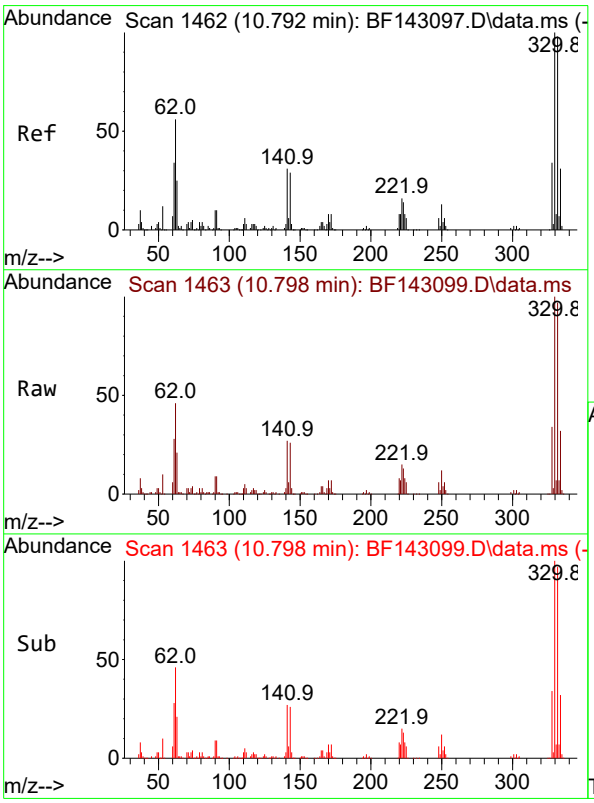
Ion	Ratio	Lower	Upper
237	100		
235	63.5	41.6	81.6
272	12.8	0.0	32.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

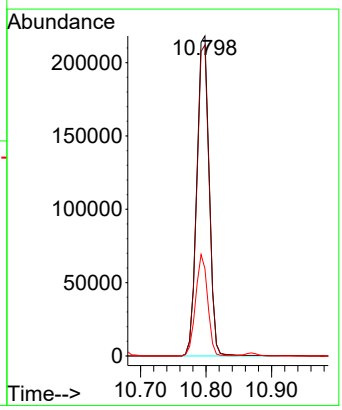
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

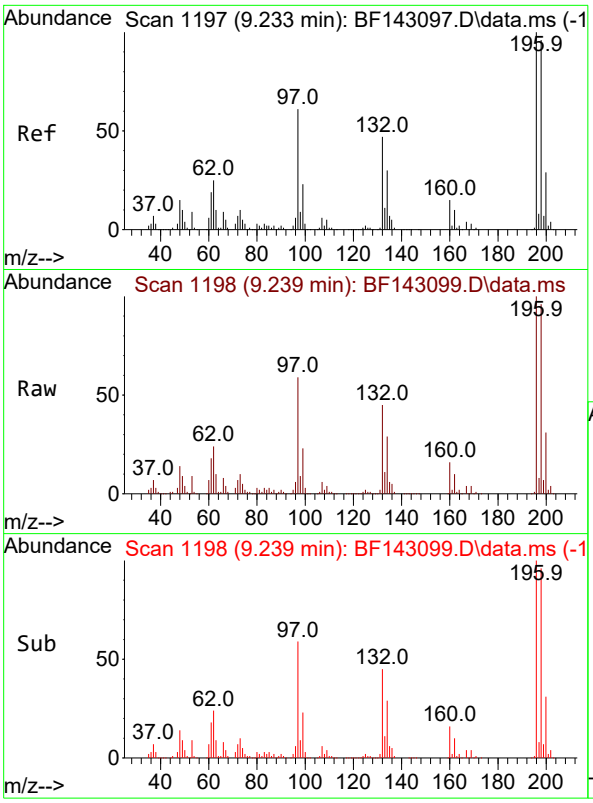


#42
2,4,6-Tribromophenol
Concen: 130.765 ng
RT: 10.798 min Scan# 1463
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:330 Resp: 286830

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.9	116.9
141	30.8	25.9	38.9

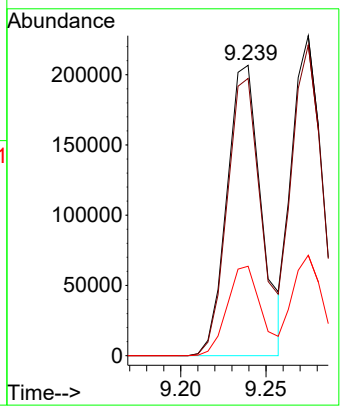




#43
2,4,6-Trichlorophenol
Concen: 65.157 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:196 Resp: 29024

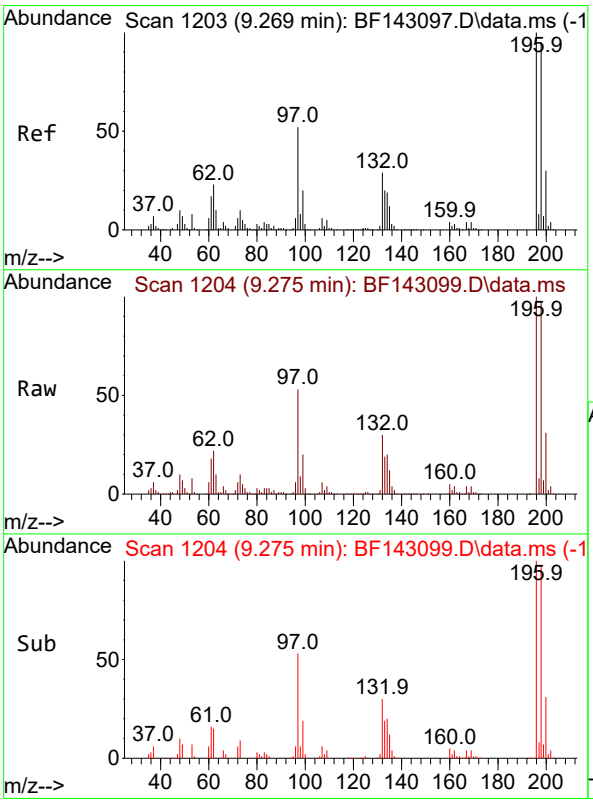
Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.9	115.3
200	30.8	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

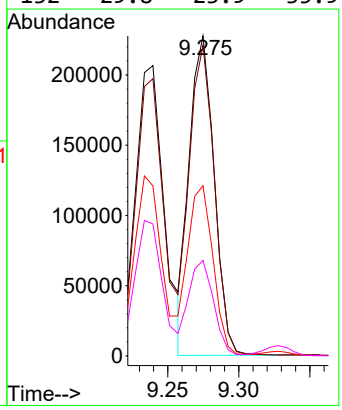
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

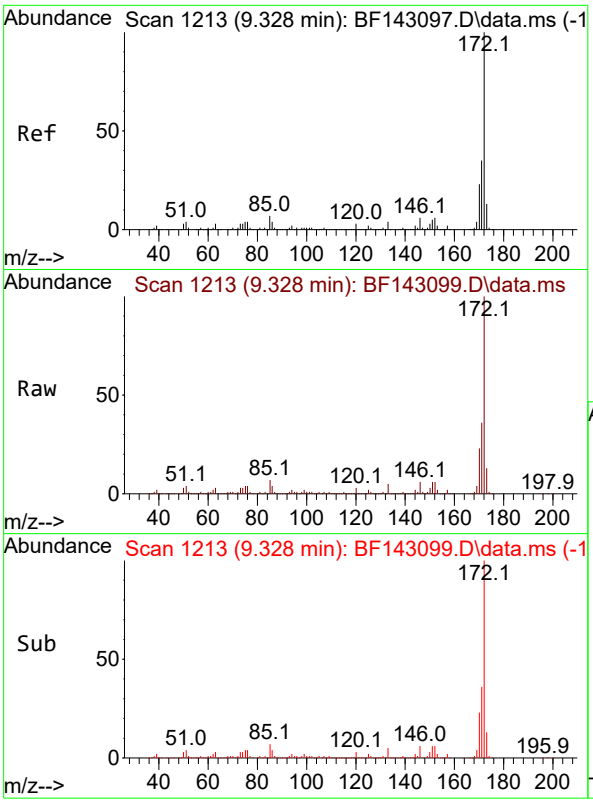


#44
2,4,5-Trichlorophenol
Concen: 59.502 ng
RT: 9.275 min Scan# 1204
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:196 Resp: 277922

Ion	Ratio	Lower	Upper
196	100		
198	97.1	76.4	114.6
97	53.2	42.4	63.6
132	29.8	23.9	35.9

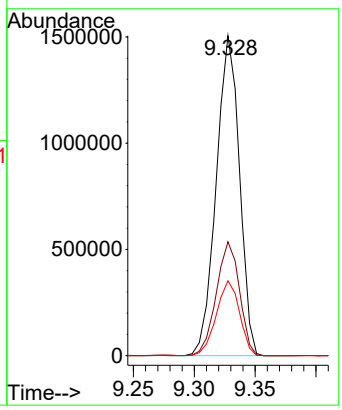




#45
2-Fluorobiphenyl
Concen: 108.050 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:172 Resp: 199961

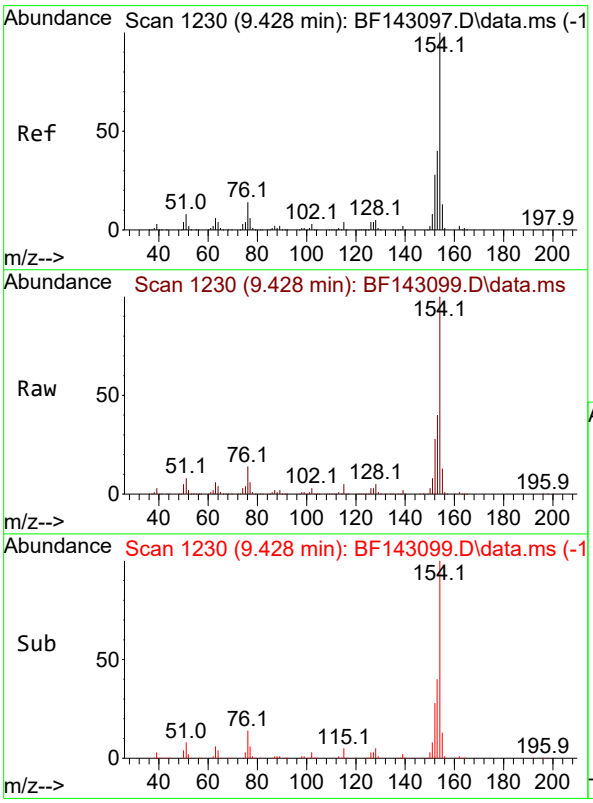
Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.2	42.4
170	23.4	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

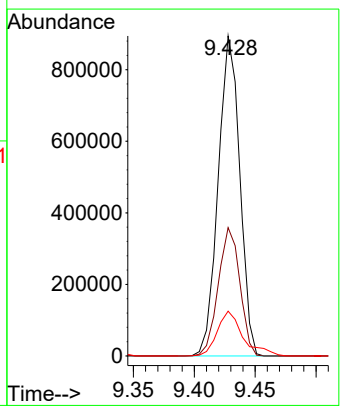
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

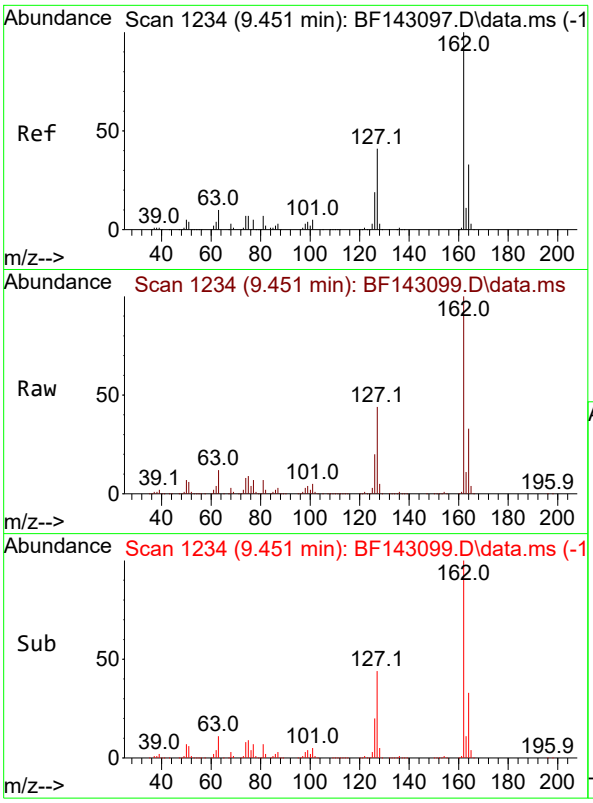


#46
1,1'-Biphenyl
Concen: 56.274 ng
RT: 9.428 min Scan# 1230
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:154 Resp: 1103990

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	14.0	0.0	33.7

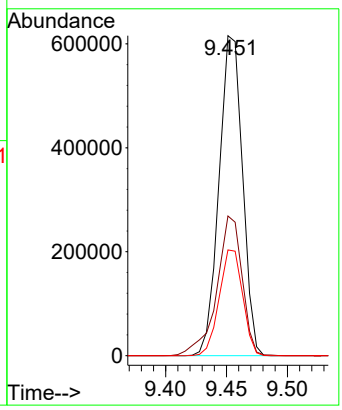




#47
2-Chloronaphthalene
Concen: 57.350 ng
RT: 9.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:162 Resp: 82652

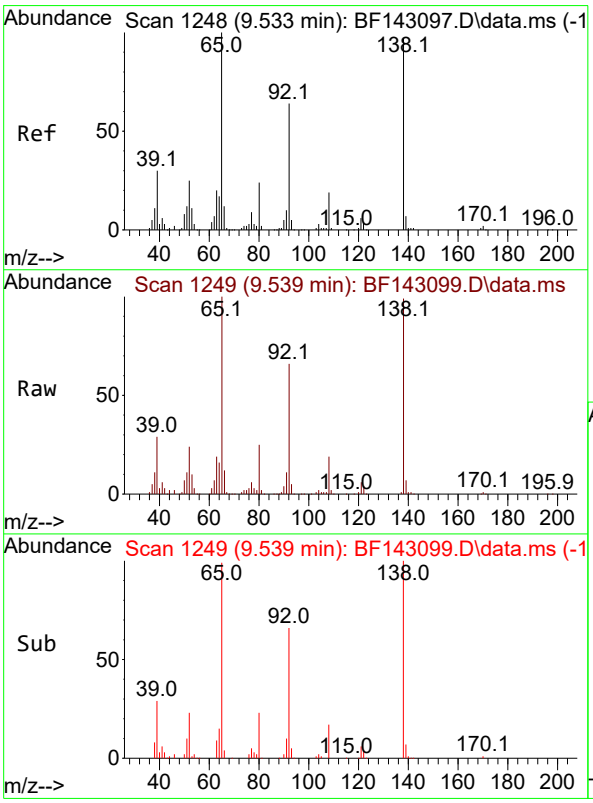
Ion	Ratio	Lower	Upper
162	100		
127	43.7	33.0	49.6
164	33.0	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

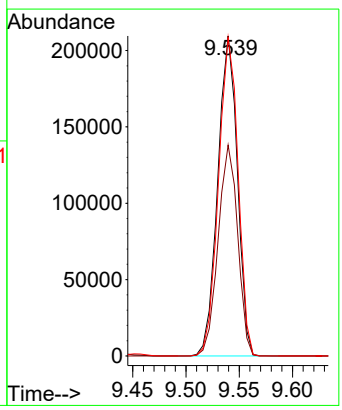
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

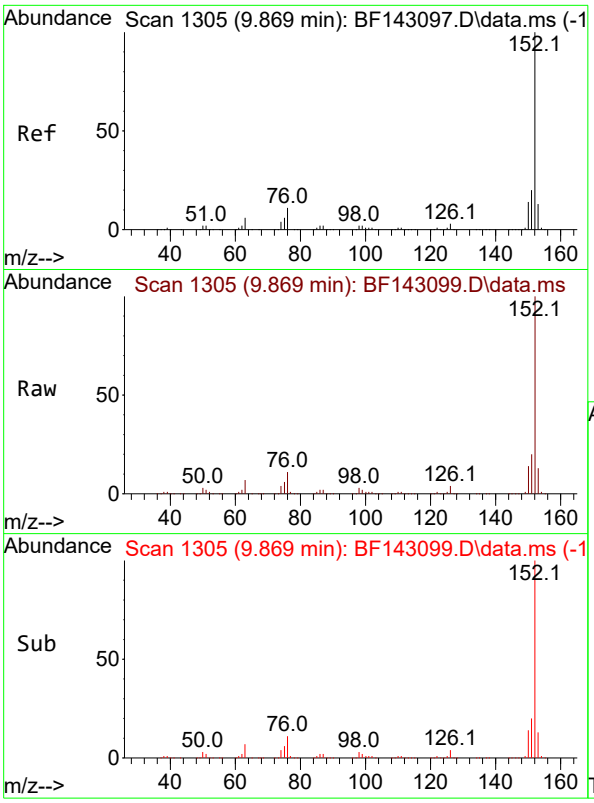


#48
2-Nitroaniline
Concen: 61.259 ng
RT: 9.539 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 65 Resp: 267636

Ion	Ratio	Lower	Upper
65	100		
92	65.9	51.3	76.9
138	99.5	77.8	116.6

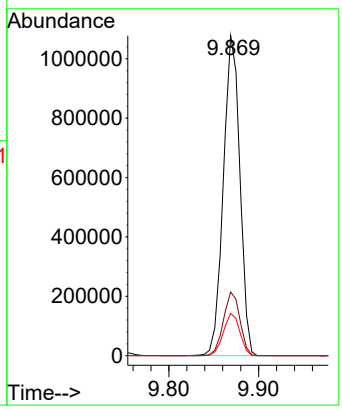




#49
Acenaphthylene
Concen: 57.388 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:152 Resp: 137819

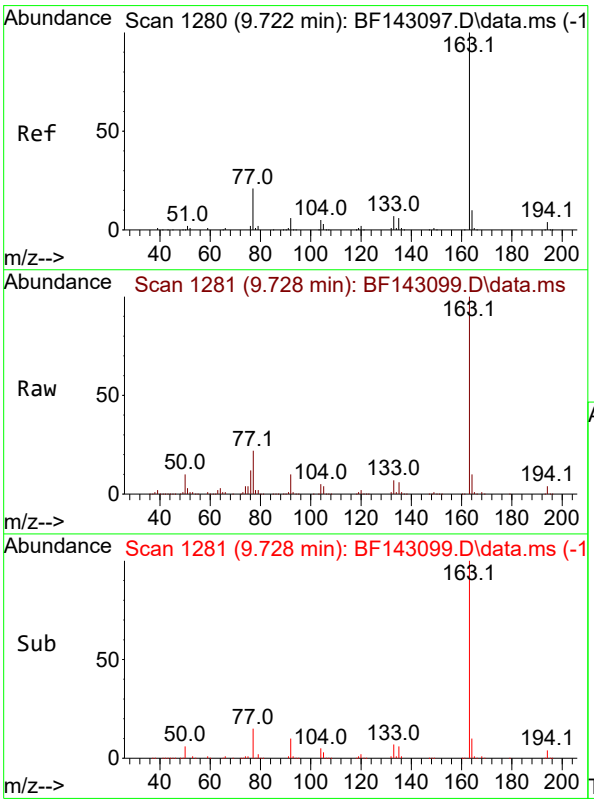
Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.8
153	13.2	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

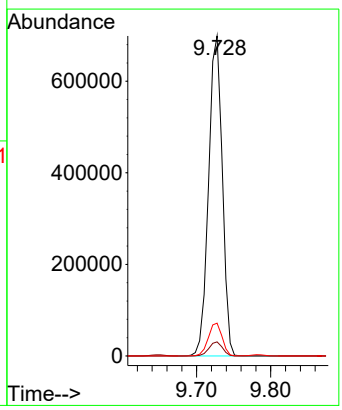
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

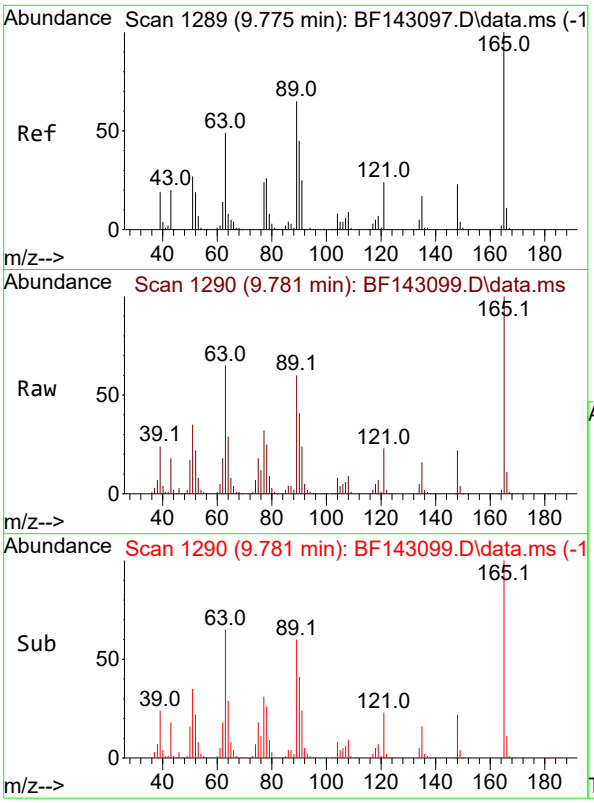


#50
Dimethylphthalate
Concen: 58.118 ng
RT: 9.728 min Scan# 1281
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:163 Resp: 899456

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.3	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 62.287 ng
RT: 9.781 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

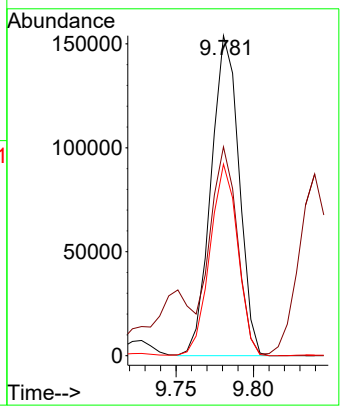
Tgt Ion:165 Resp: 19318

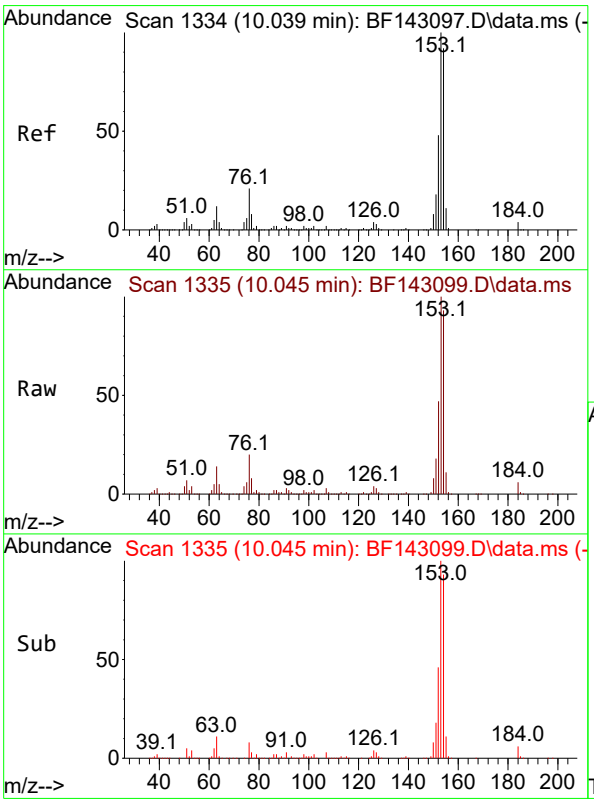
Ion	Ratio	Lower	Upper
165	100		
63	65.2	57.4	86.0
89	59.9	51.8	77.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

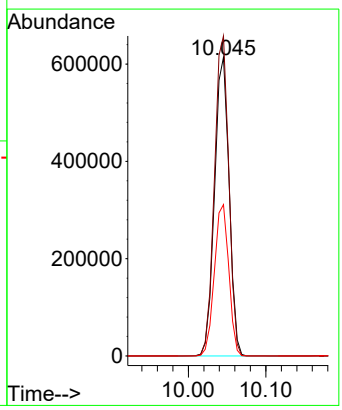


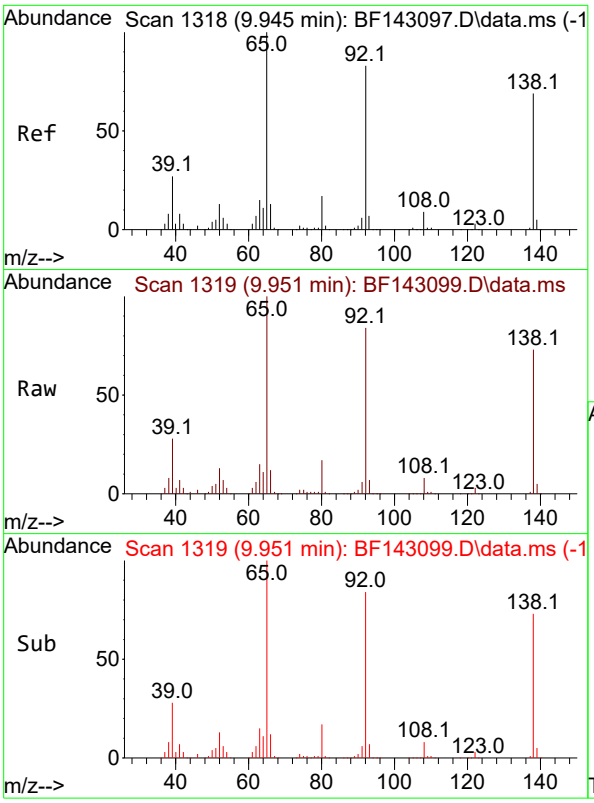


#52
Acenaphthene
Concen: 56.633 ng
RT: 10.045 min Scan# 1335
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:154 Resp: 802583

Ion	Ratio	Lower	Upper
154	100		
153	107.1	86.7	130.1
152	50.6	41.4	62.2

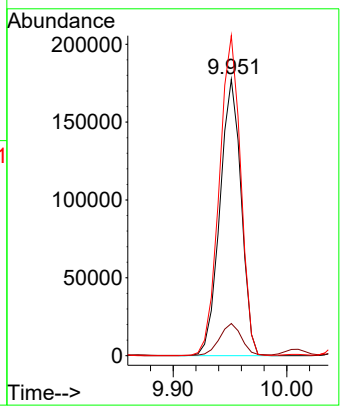




#53
3-Nitroaniline
Concen: 69.008 ng
RT: 9.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:138 Resp: 23077

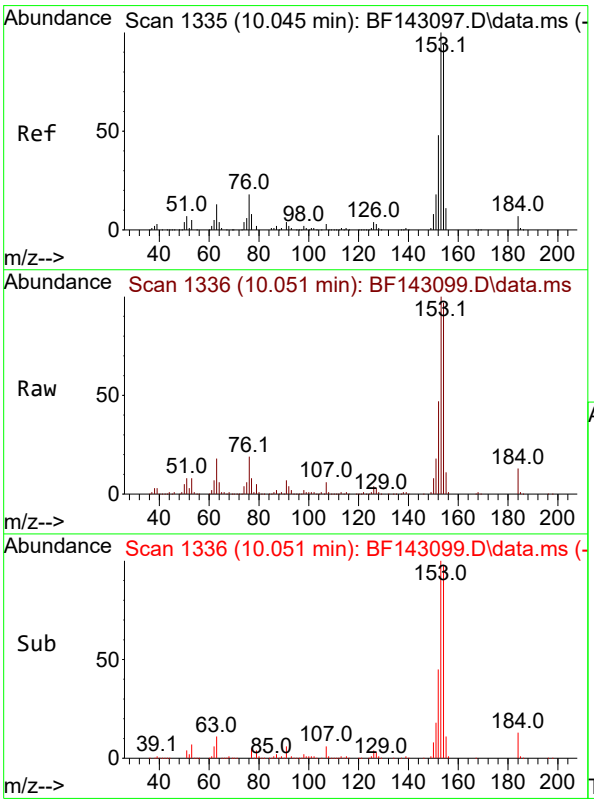
Ion	Ratio	Lower	Upper
138	100		
108	11.6	10.1	15.1
92	115.8	96.4	144.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

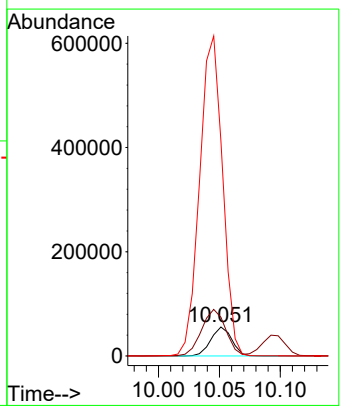
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

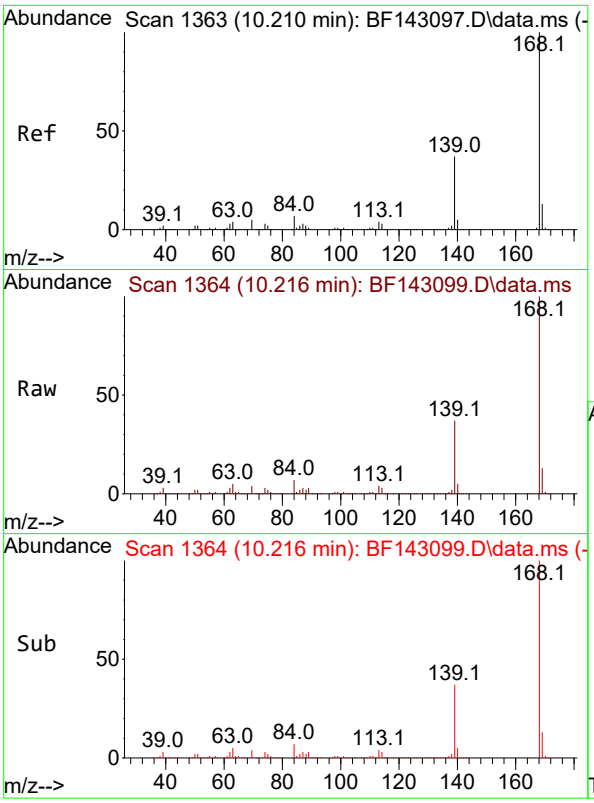


#54
2,4-Dinitrophenol
Concen: 61.314 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:184 Resp: 66479

Ion	Ratio	Lower	Upper
184	100		
63	133.6	149.3	223.9#
154	743.3	1048.0	1572.0#

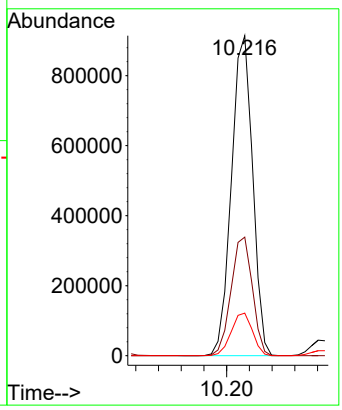




#55
Dibenzofuran
Concen: 56.052 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:168 Resp: 118400

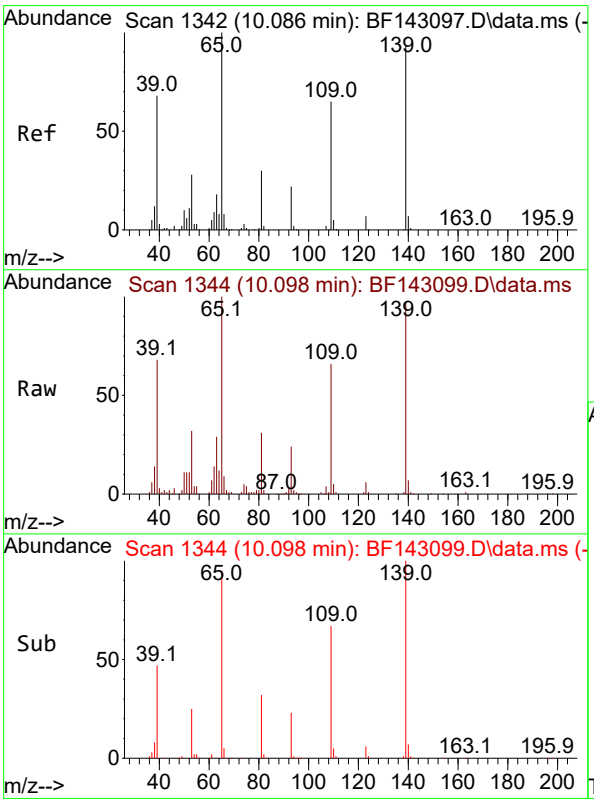
Ion	Ratio	Lower	Upper
168	100		
139	37.1	29.8	44.6
169	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

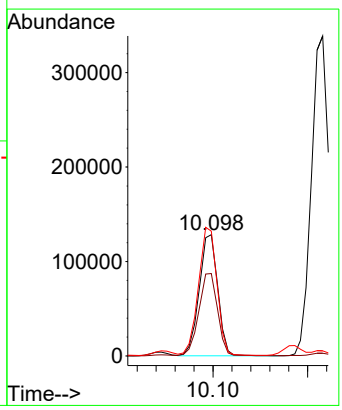
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

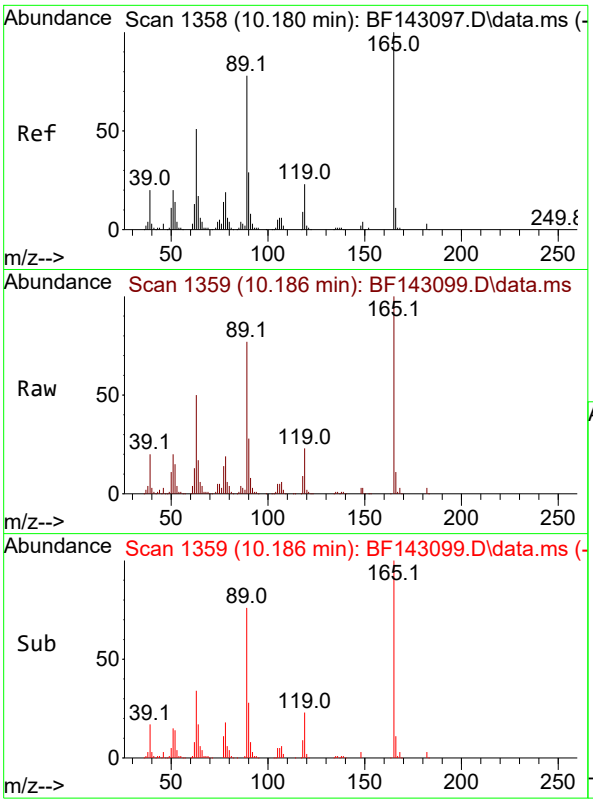


#56
4-Nitrophenol
Concen: 65.716 ng
RT: 10.098 min Scan# 1344
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:139 Resp: 174657

Ion	Ratio	Lower	Upper
139	100		
109	67.9	49.4	89.4
65	102.8	88.2	128.2

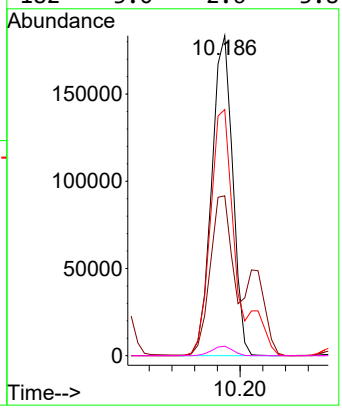




#57
2,4-Dinitrotoluene
Concen: 60.695 ng
RT: 10.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:165 Resp: 23548

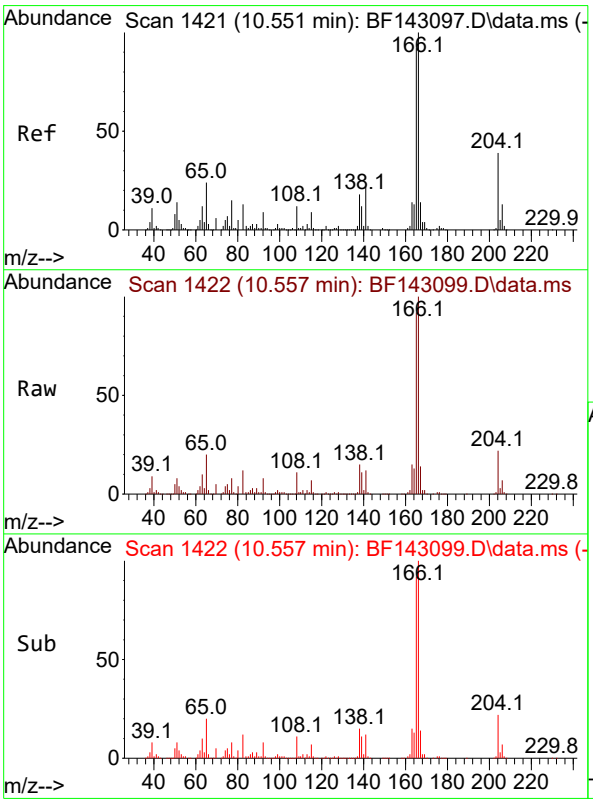
Ion	Ratio	Lower	Upper
165	100		
63	49.9	40.6	61.0
89	76.9	62.3	93.5
182	3.0	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

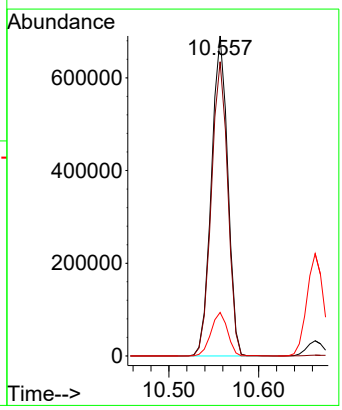
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

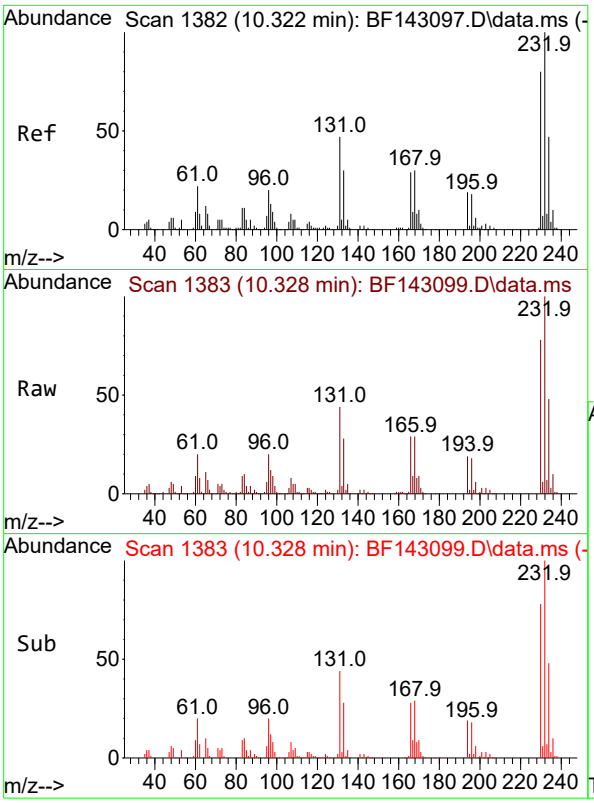


#58
Fluorene
Concen: 55.265 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:166 Resp: 875218

Ion	Ratio	Lower	Upper
166	100		
165	91.9	73.7	110.5
167	13.6	10.9	16.3

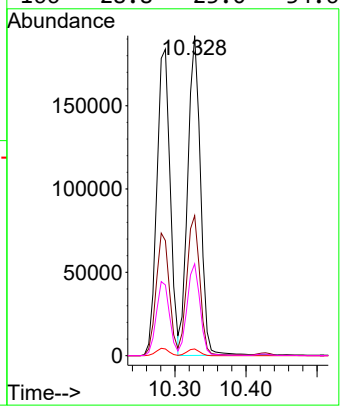




#59
2,3,4,6-Tetrachlorophenol
Concen: 64.235 ng
RT: 10.328 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:232 Resp: 23842

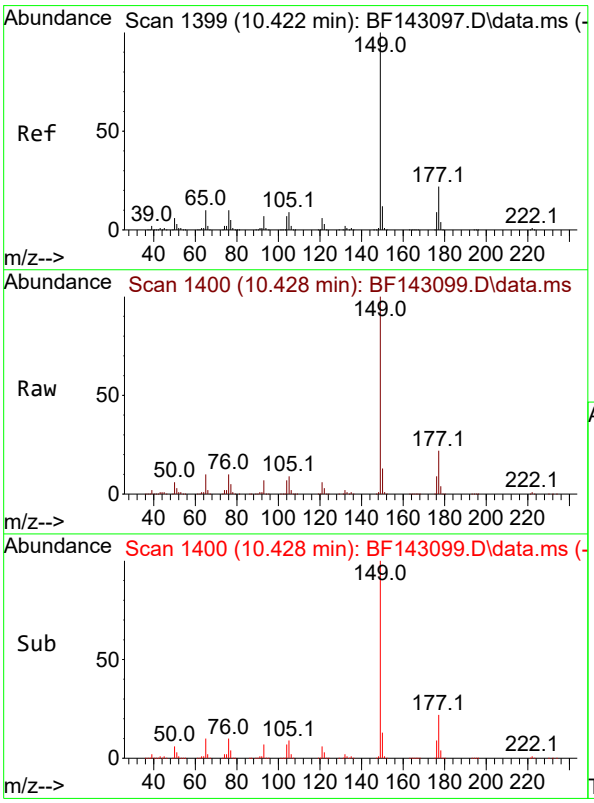
Ion	Ratio	Lower	Upper
232	100		
131	43.9	36.9	55.3
130	2.1	1.8	2.8
166	28.8	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

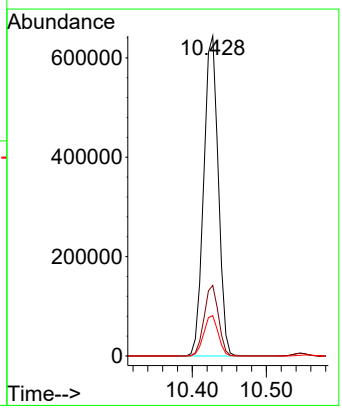
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

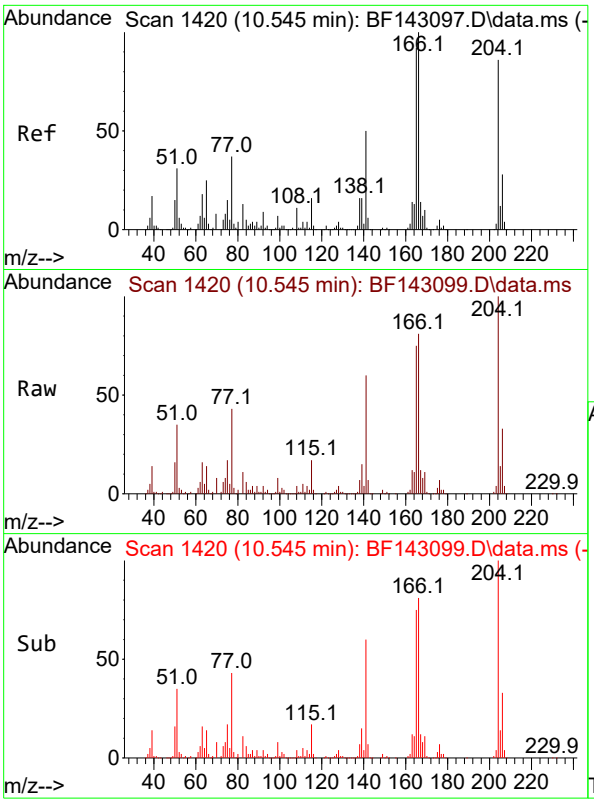


#60
Diethylphthalate
Concen: 58.672 ng
RT: 10.428 min Scan# 1400
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:149 Resp: 876047

Ion	Ratio	Lower	Upper
149	100		
177	22.1	17.3	25.9
150	12.6	9.9	14.9





#61
4-Chlorophenyl-phenylether
Concen: 57.000 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

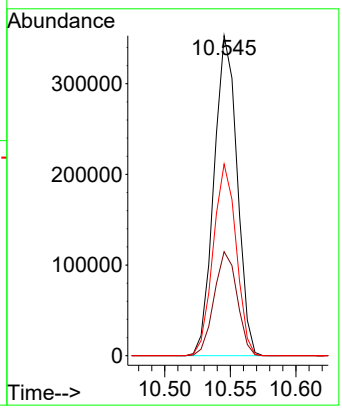
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

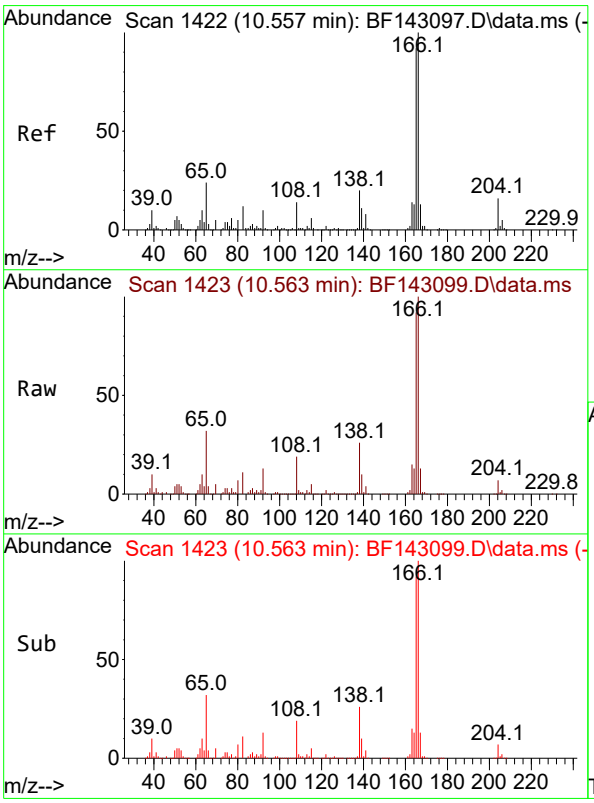
Tgt Ion:204 Resp: 43265

Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	59.9	46.8	70.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

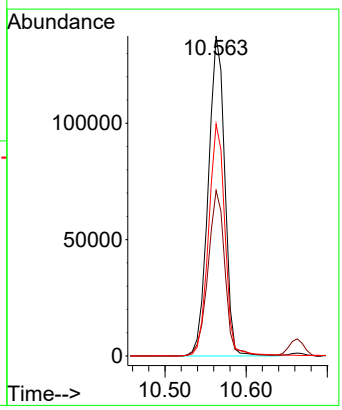


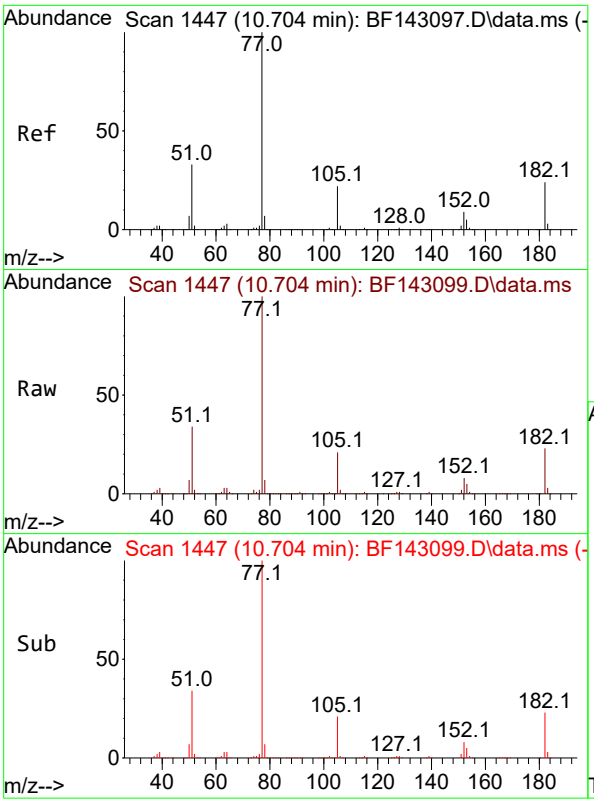


#62
4-Nitroaniline
Concen: 66.802 ng
RT: 10.563 min Scan# 1423
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:138 Resp: 194271

Ion	Ratio	Lower	Upper
138	100		
92	51.7	30.4	70.4
108	72.5	49.5	89.5

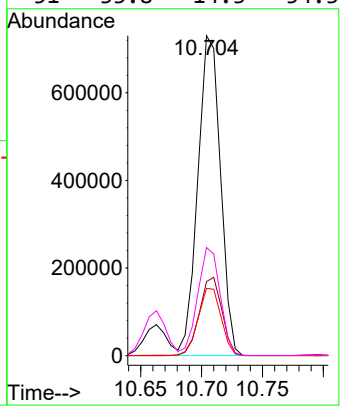




#63
Azobenzene
Concen: 57.300 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion: 77 Resp: 94620

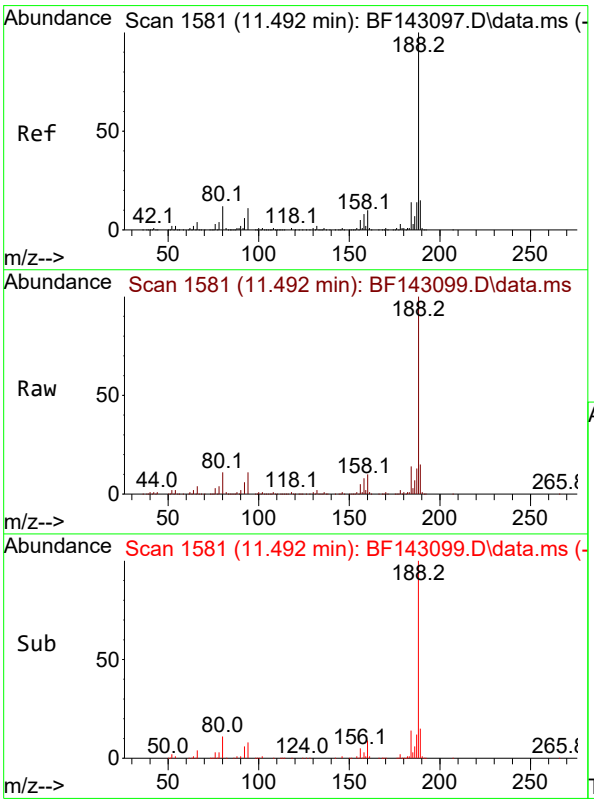
Ion	Ratio	Lower	Upper
77	100		
182	23.2	4.0	44.0
105	21.1	1.4	41.4
51	33.8	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

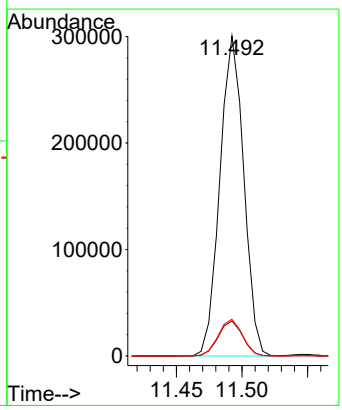
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

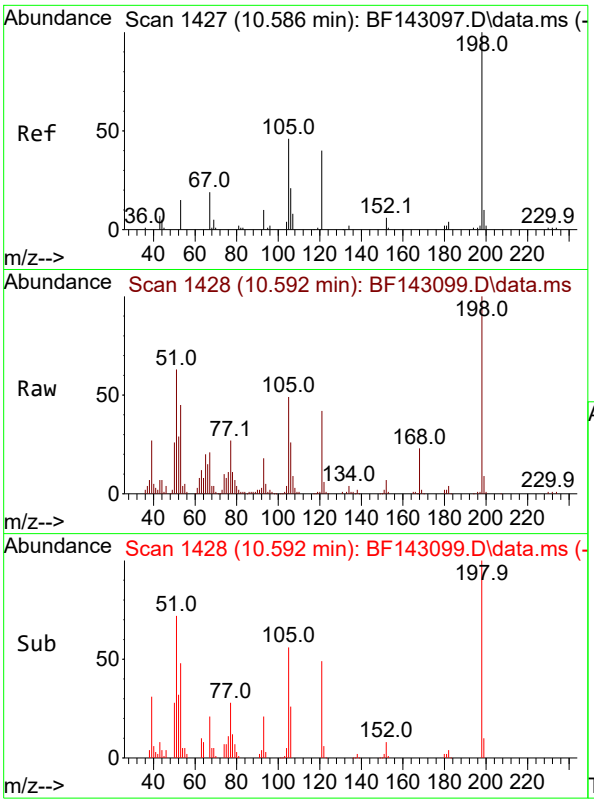


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:188 Resp: 380313

Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.6	13.0
80	11.4	9.3	13.9





#65
4,6-Dinitro-2-methylphenol
Concen: 62.285 ng
RT: 10.592 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

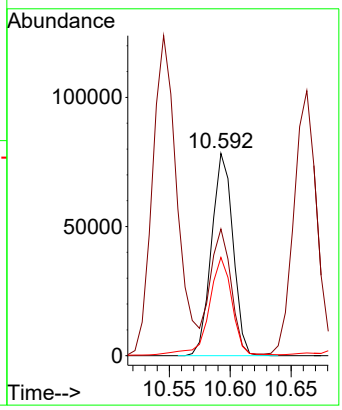
Tgt Ion:198 Resp: 9630

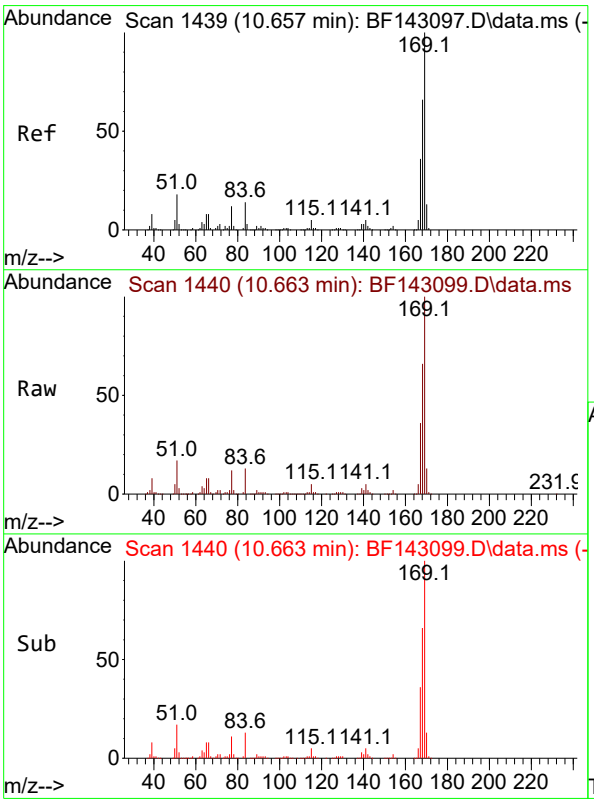
Ion	Ratio	Lower	Upper
198	100		
51	62.6	44.6	84.6
105	48.6	29.3	69.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

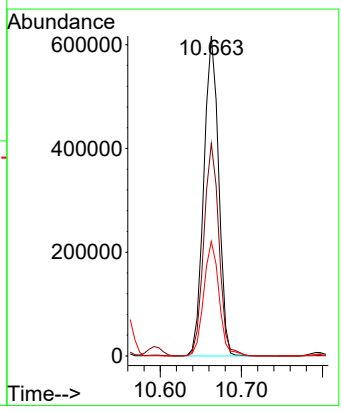


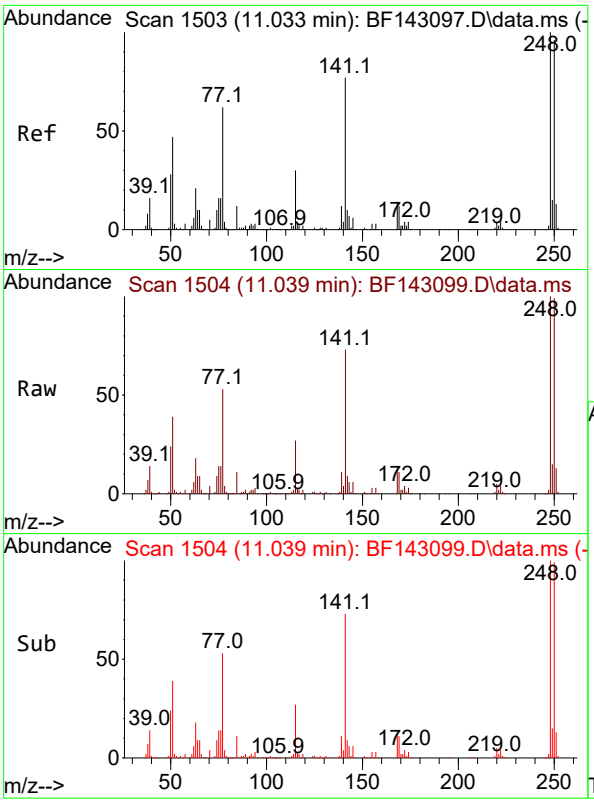


#66
n-Nitrosodiphenylamine
Concen: 58.469 ng
RT: 10.663 min Scan# 1440
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:169 Resp: 781087

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.6
167	35.8	28.4	42.6

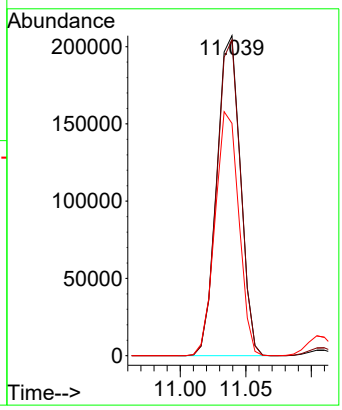




#67
4-Bromophenyl-phenylether
Concen: 60.229 ng
RT: 11.039 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:248 Resp: 26049

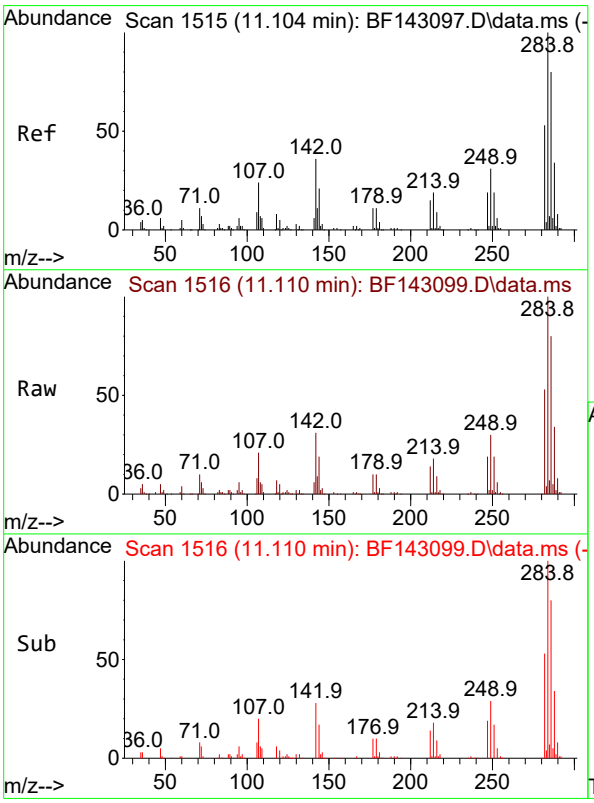
Ion	Ratio	Lower	Upper
248	100		
250	98.7	76.7	115.1
141	72.6	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

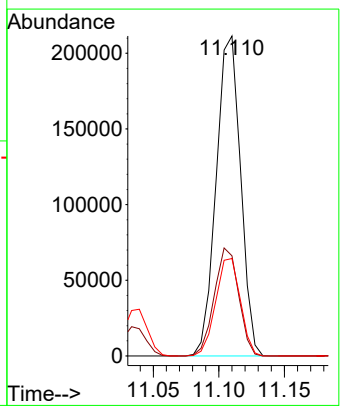
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

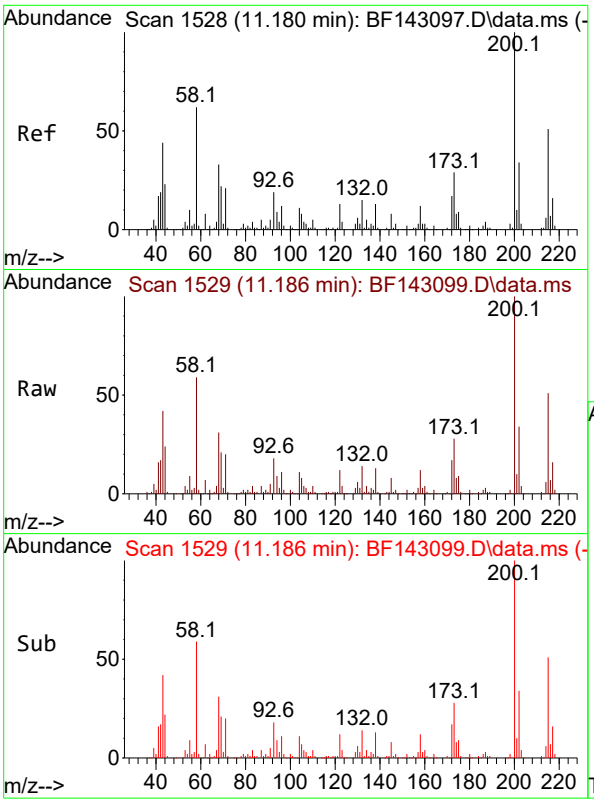


#68
Hexachlorobenzene
Concen: 59.515 ng
RT: 11.110 min Scan# 1516
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:284 Resp: 273112

Ion	Ratio	Lower	Upper
284	100		
142	31.3	28.9	43.3
249	30.5	24.6	37.0

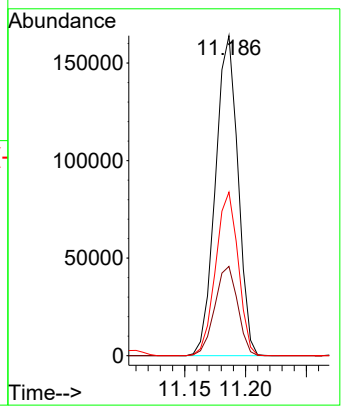




#69
Atrazine
Concen: 61.838 ng
RT: 11.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:200 Resp: 21135

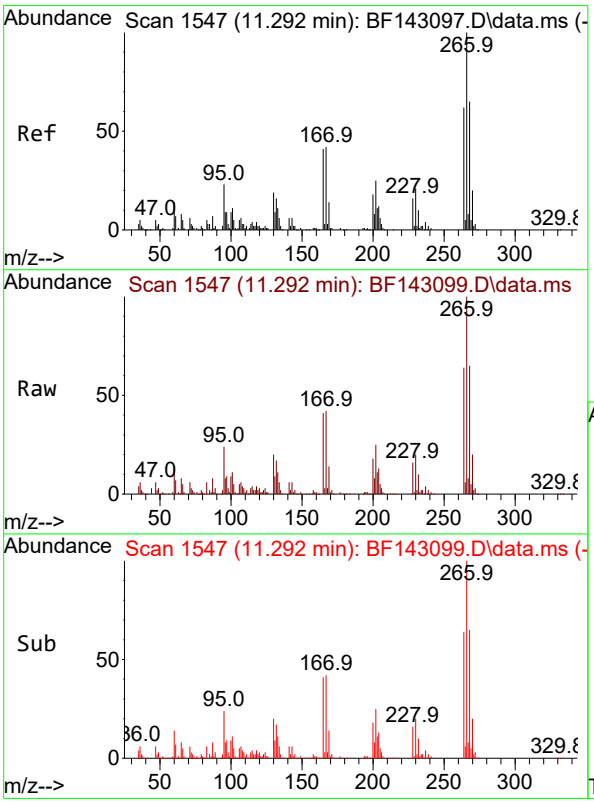
Ion	Ratio	Lower	Upper
200	100		
173	27.9	9.1	49.1
215	51.1	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

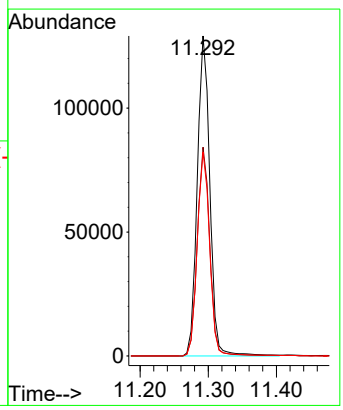
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

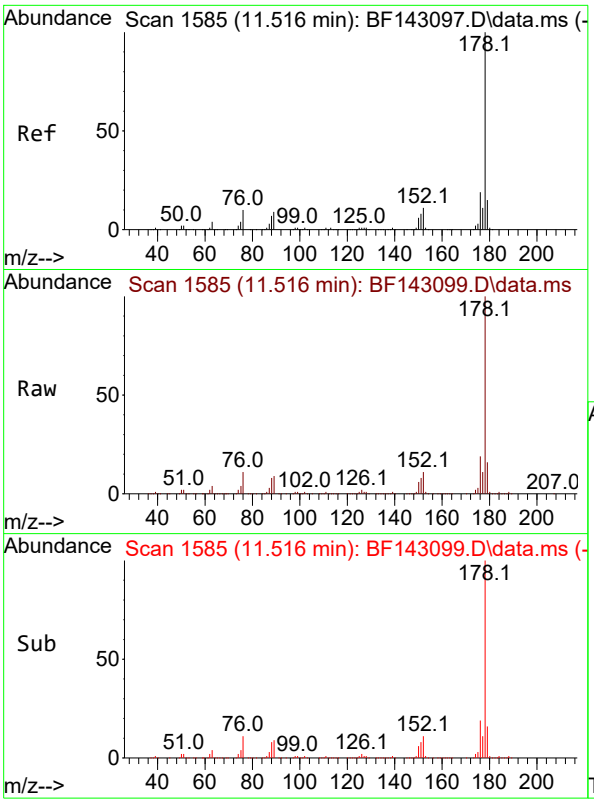


#70
Pentachlorophenol
Concen: 65.805 ng
RT: 11.292 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:266 Resp: 165676

Ion	Ratio	Lower	Upper
266	100		
268	65.2	51.8	77.6
264	63.7	49.7	74.5

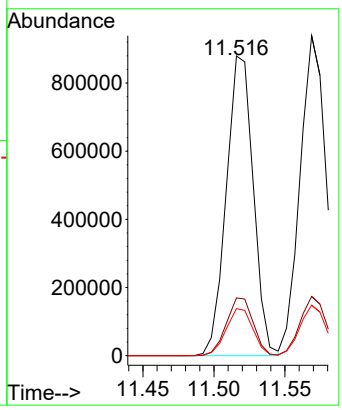




#71
Phenanthrene
Concen: 56.762 ng
RT: 11.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:178 Resp: 116504

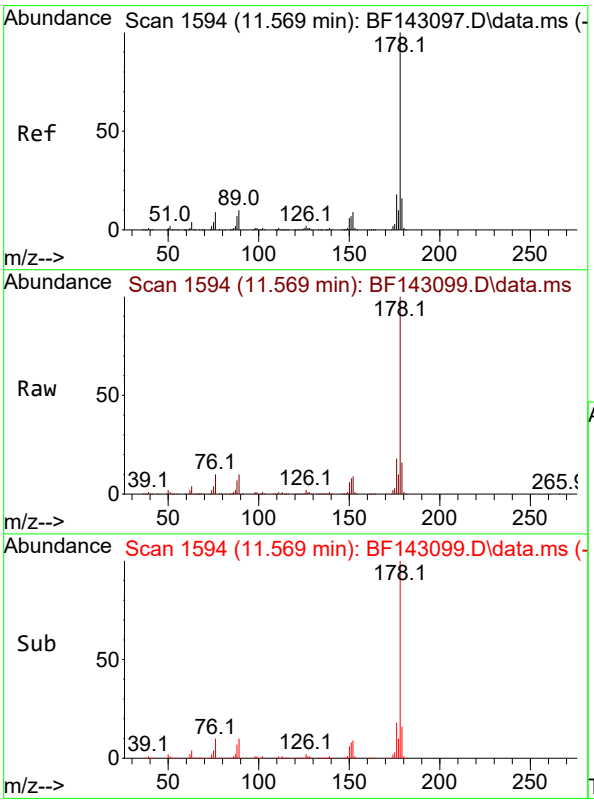
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.1	22.7
179	15.7	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

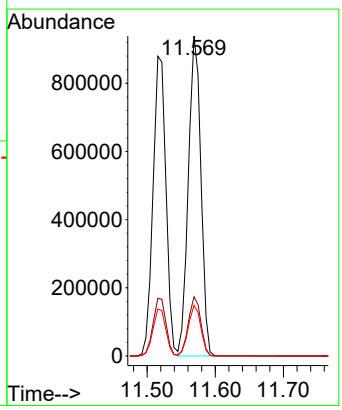
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

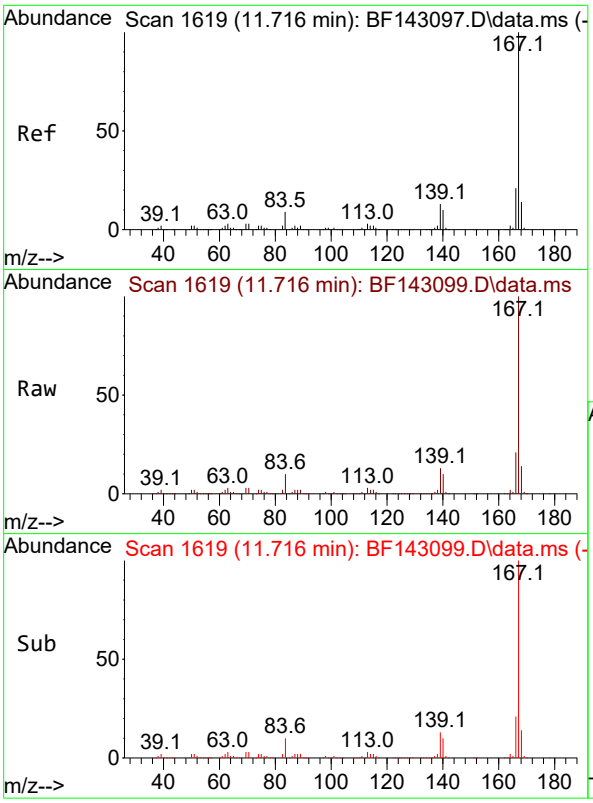


#72
Anthracene
Concen: 57.589 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:178 Resp: 1188635

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.8	12.4	18.6

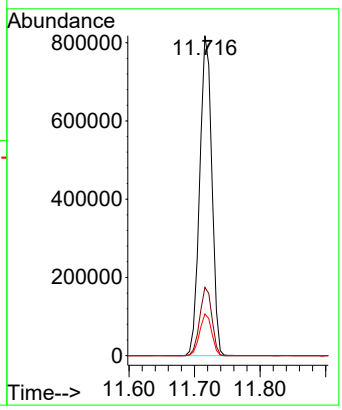




#73
Carbazole
Concen: 57.179 ng
RT: 11.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:167 Resp: 105729

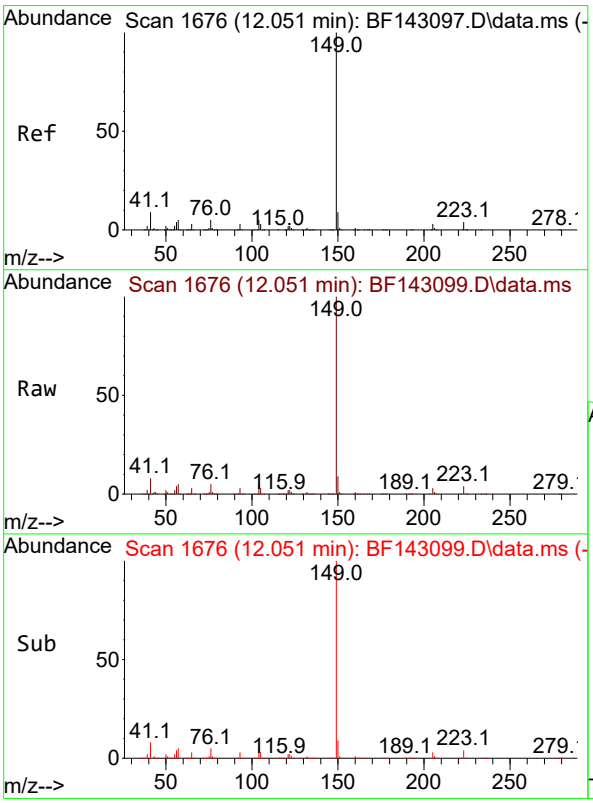
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.4
139	13.1	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

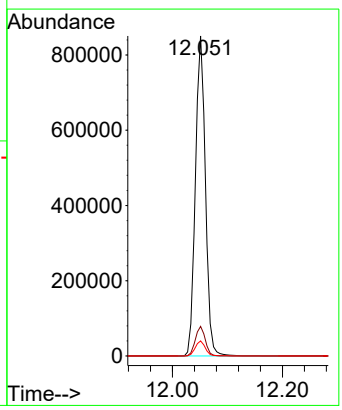
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

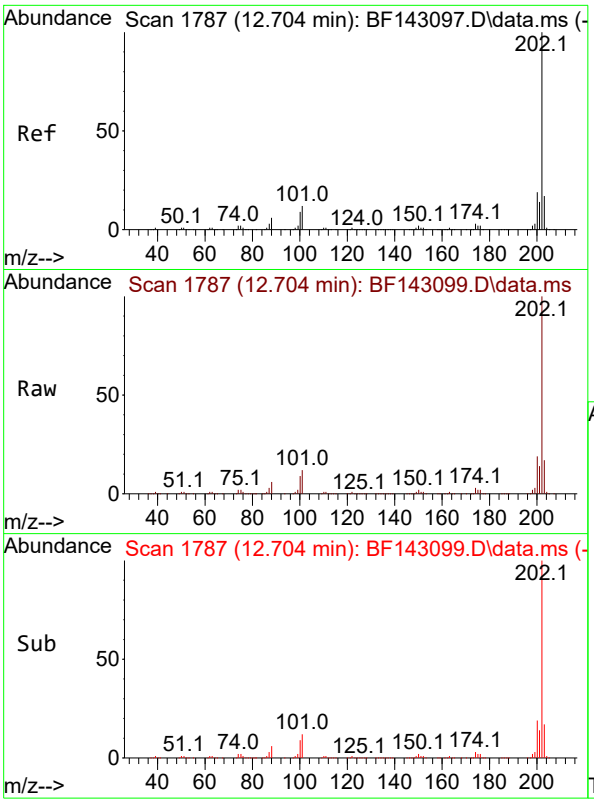


#74
Di-n-butylphthalate
Concen: 63.291 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:149 Resp: 1074246

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.7	3.8	5.8

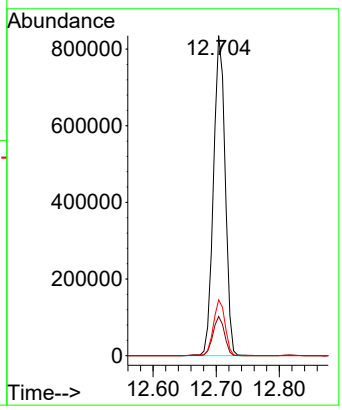




#75
Fluoranthene
Concen: 57.328 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:202 Resp: 106989

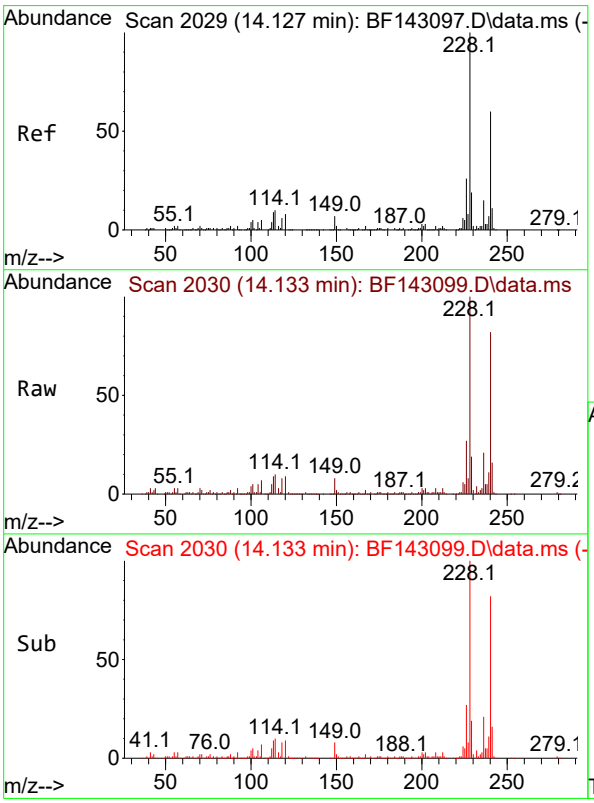
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	32.4
203	17.4	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

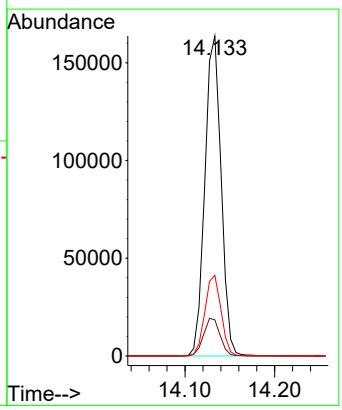
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

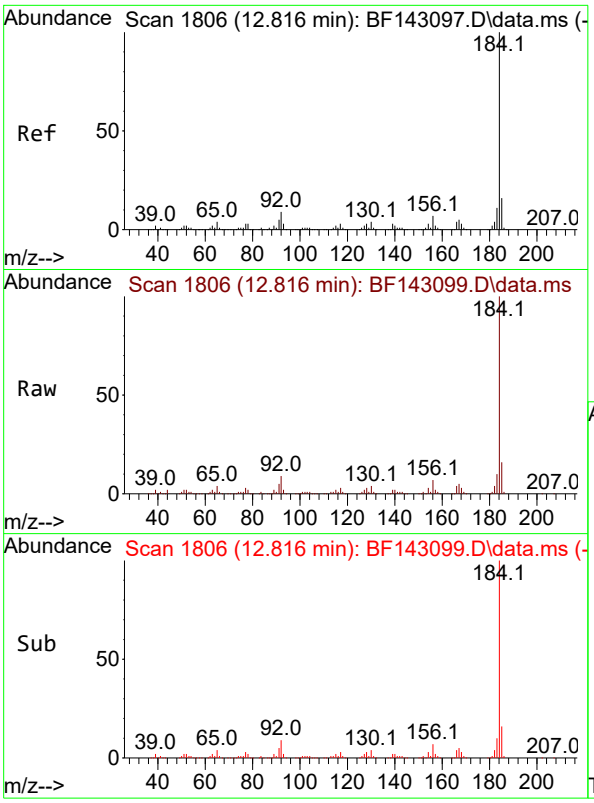


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:240 Resp: 205942

Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.0	15.0
236	25.2	20.0	30.0

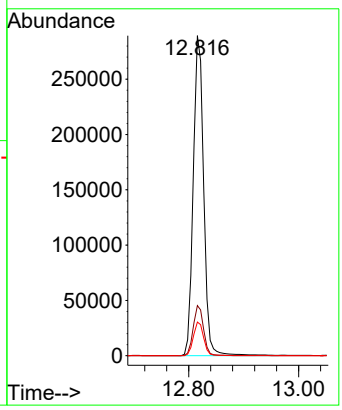




#77
Benzidine
Concen: 54.244 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:184 Resp: 38058

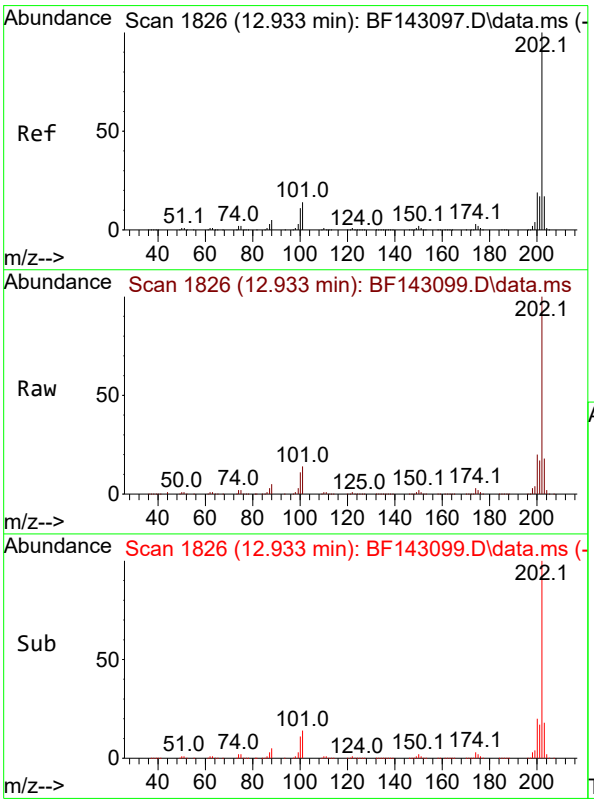
Ion	Ratio	Lower	Upper
184	100		
185	15.6	12.4	18.6
183	10.5	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

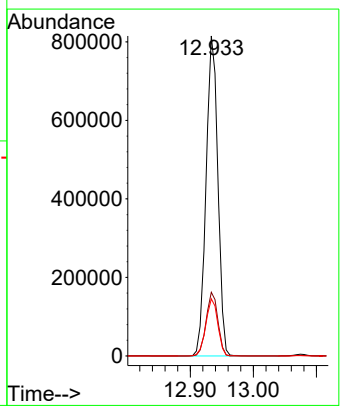
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

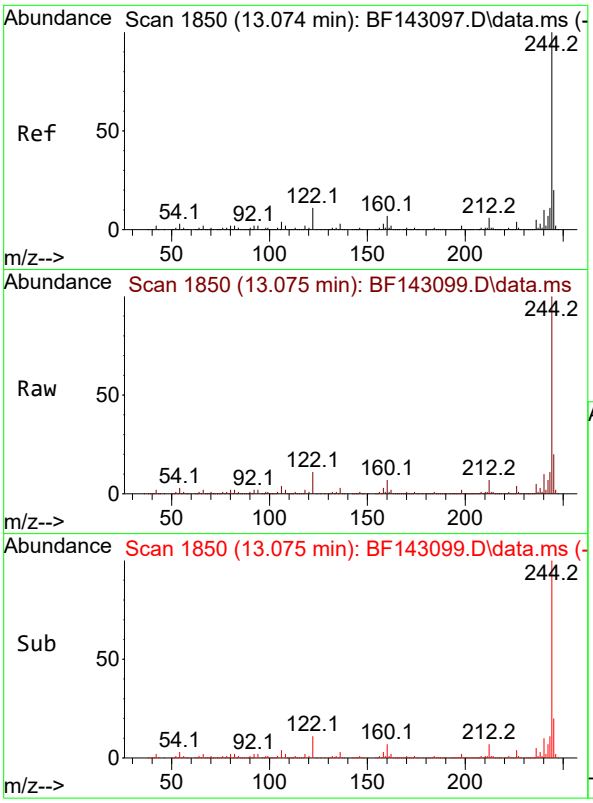


#78
Pyrene
Concen: 55.485 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:202 Resp: 1060216

Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.5	23.3
203	17.8	14.0	21.0

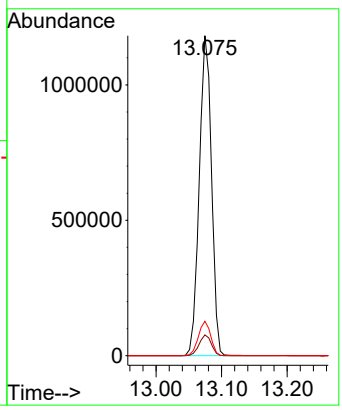




#79
Terphenyl-d14
Concen: 109.260 ng
RT: 13.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:244 Resp: 153927

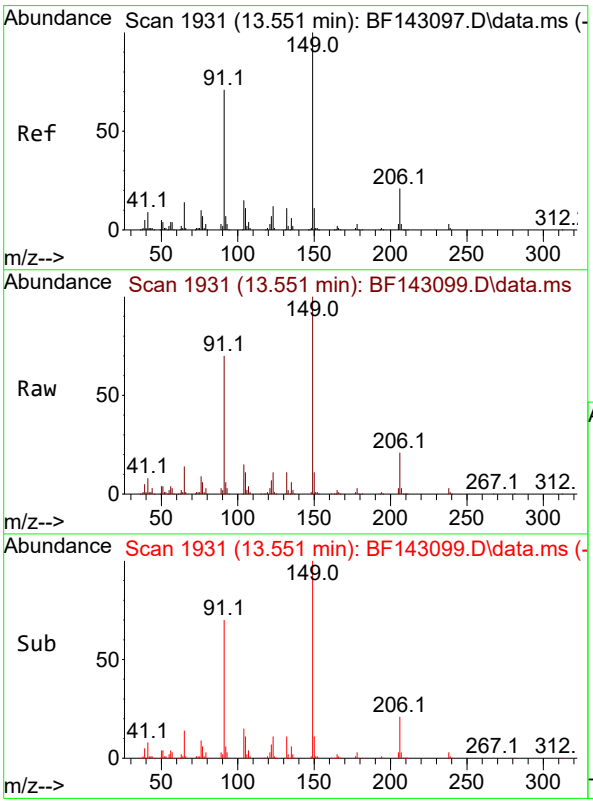
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	10.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

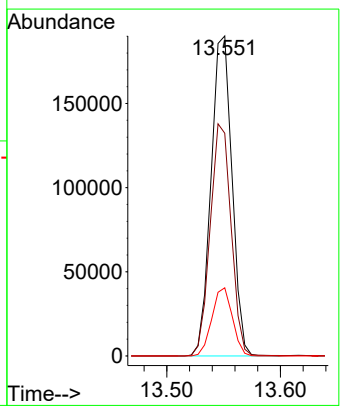
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

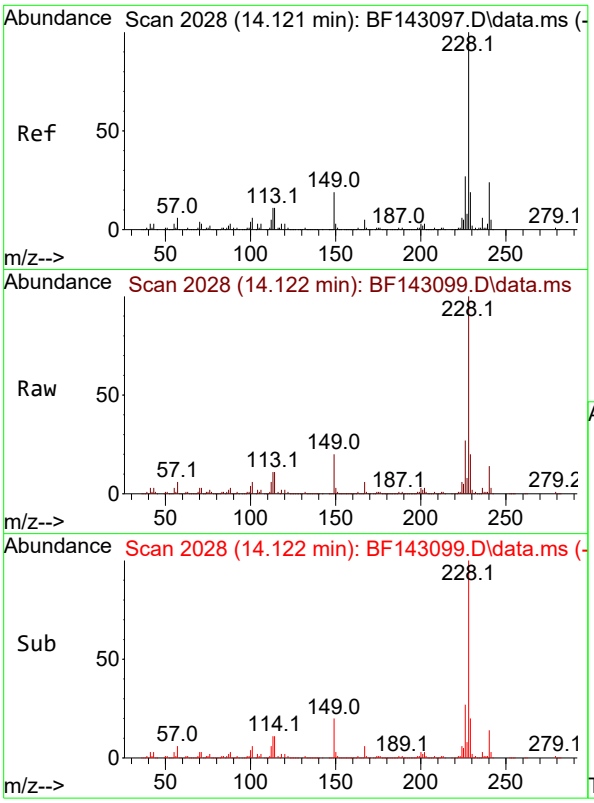


#80
Butylbenzylphthalate
Concen: 62.406 ng
RT: 13.551 min Scan# 1931
Delta R.T. -0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:149 Resp: 243805

Ion	Ratio	Lower	Upper
149	100		
91	69.6	57.0	85.4
206	21.3	17.2	25.8

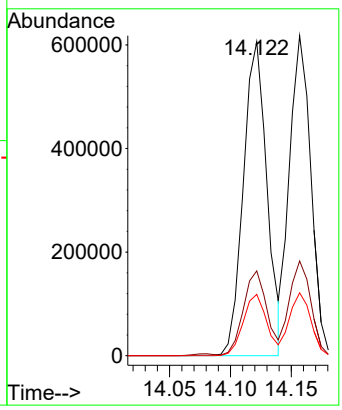




#81
Benzo(a)anthracene
Concen: 59.697 ng
RT: 14.122 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:228 Resp: 81924

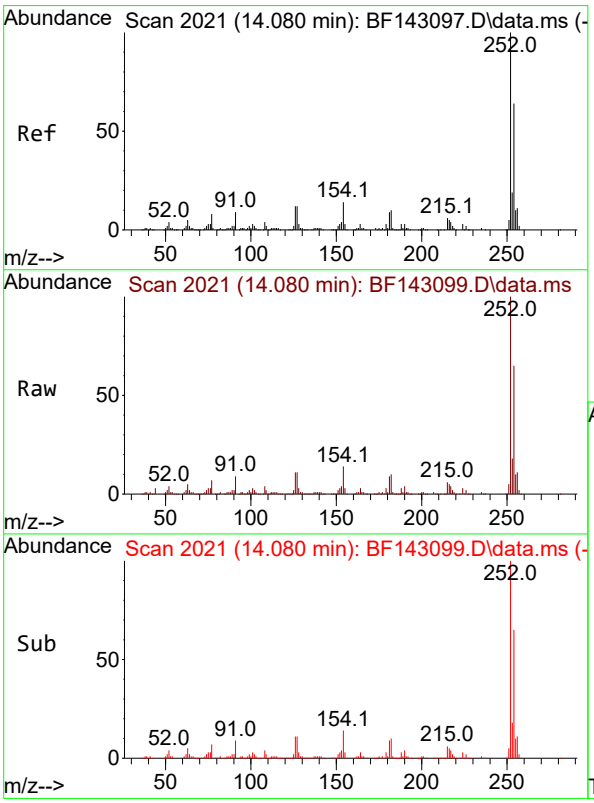
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.3	31.9
229	19.5	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

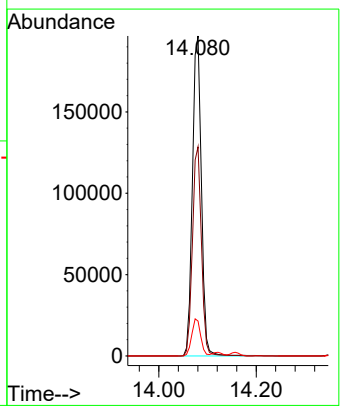
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

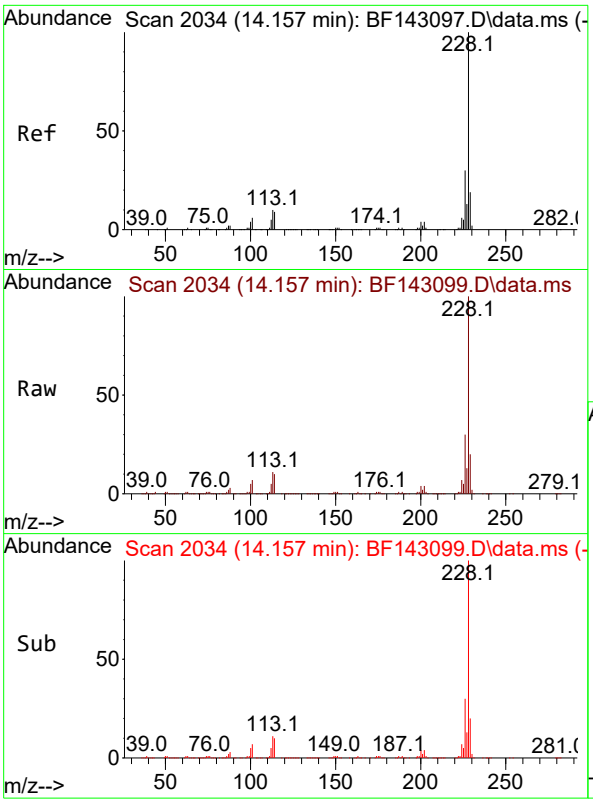


#82
3,3'-Dichlorobenzidine
Concen: 63.758 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:252 Resp: 254086

Ion	Ratio	Lower	Upper
252	100		
254	65.3	51.5	77.3
126	10.9	9.4	14.0

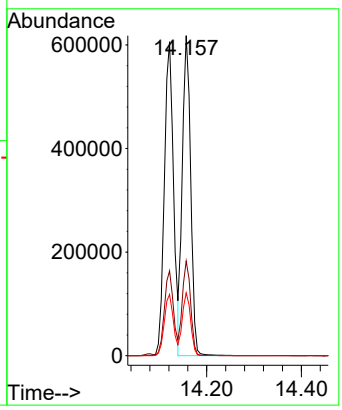




#83
Chrysene
Concen: 60.044 ng
RT: 14.157 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:228 Resp: 75891(

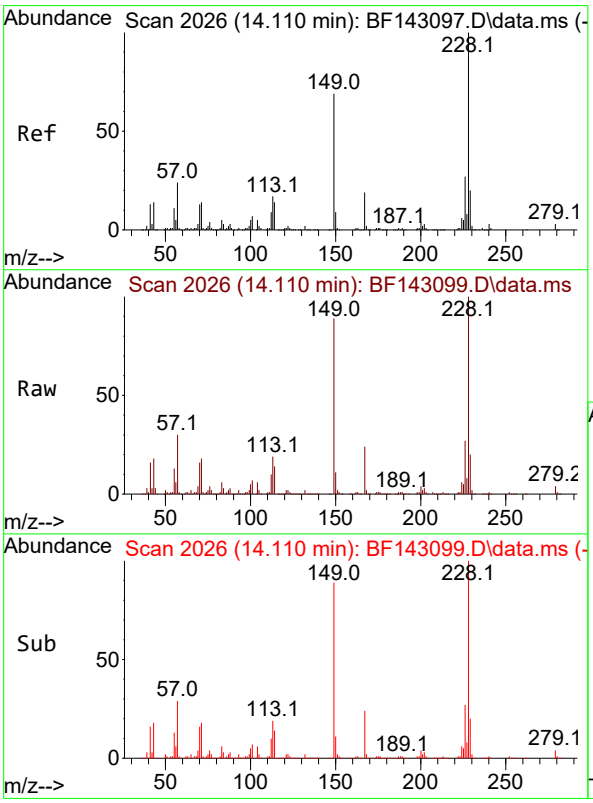
Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.4	35.2
229	19.7	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

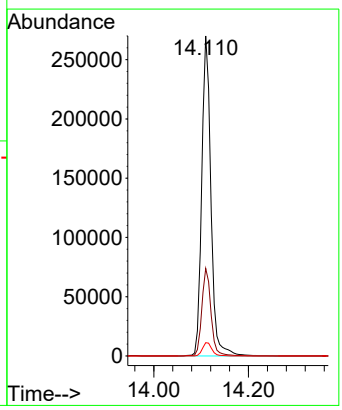
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

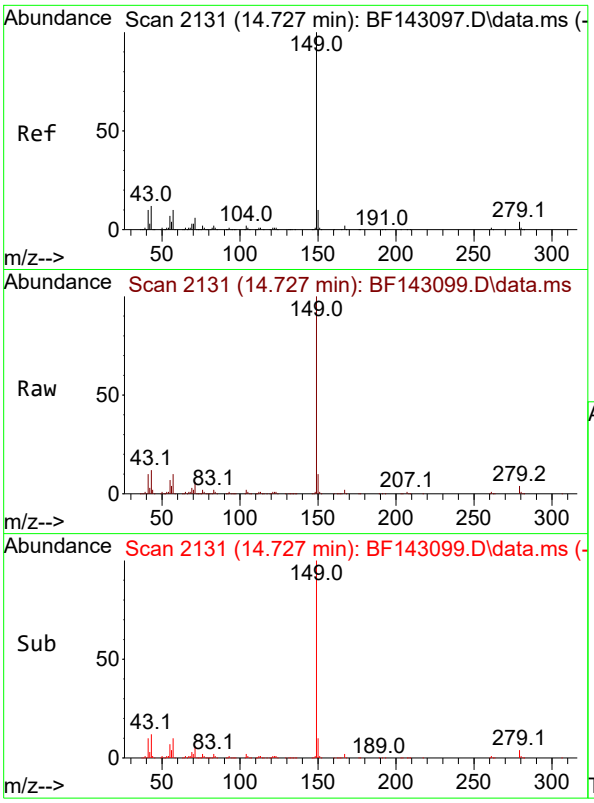


#84
Bis(2-ethylhexyl)phthalate
Concen: 61.957 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:149 Resp: 364902

Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.9	32.9
279	4.2	3.4	5.0





#85
Di-n-octyl phthalate
Concen: 60.817 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

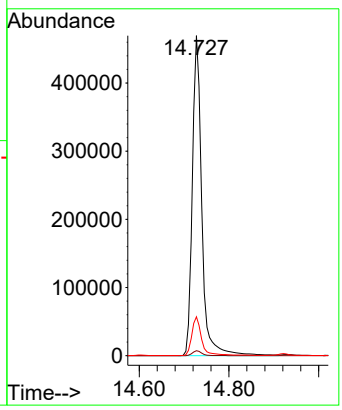
Tgt Ion:149 Resp: 68894

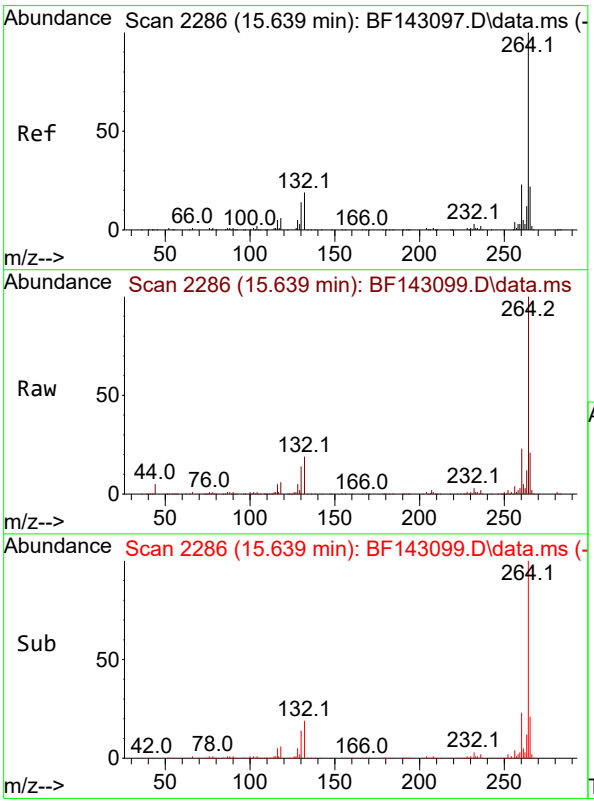
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.4	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

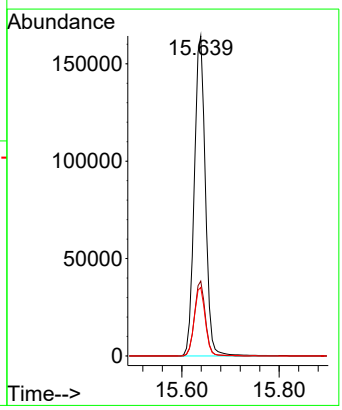


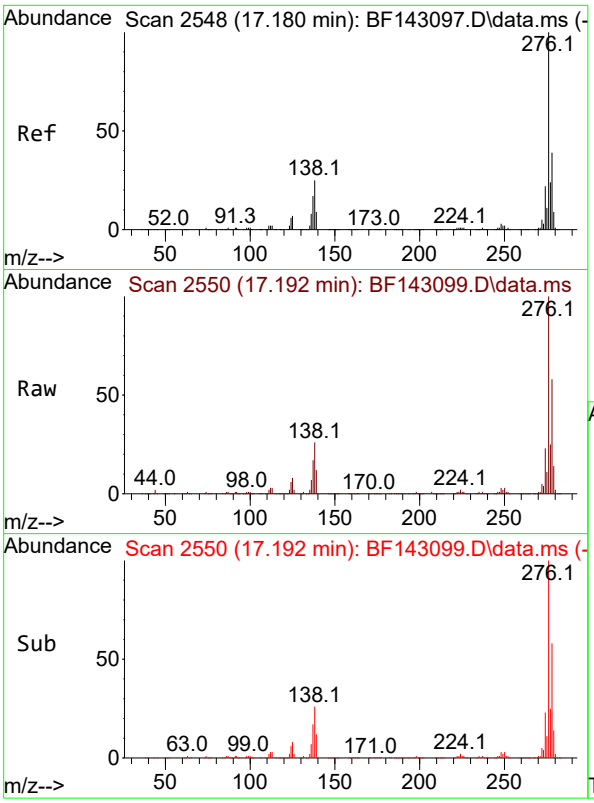


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:264 Resp: 260121

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.5	27.7
265	21.4	17.5	26.3





#87
Indeno(1,2,3-cd)pyrene
Concen: 61.286 ng
RT: 17.192 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

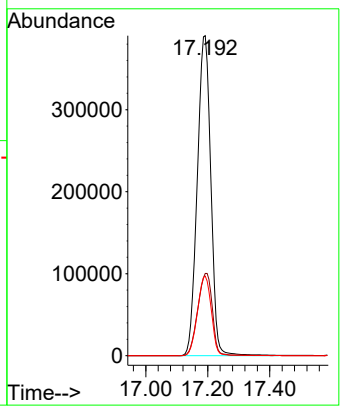
Instrument :
BNA_F
ClientSampleId :
SSTDICC060

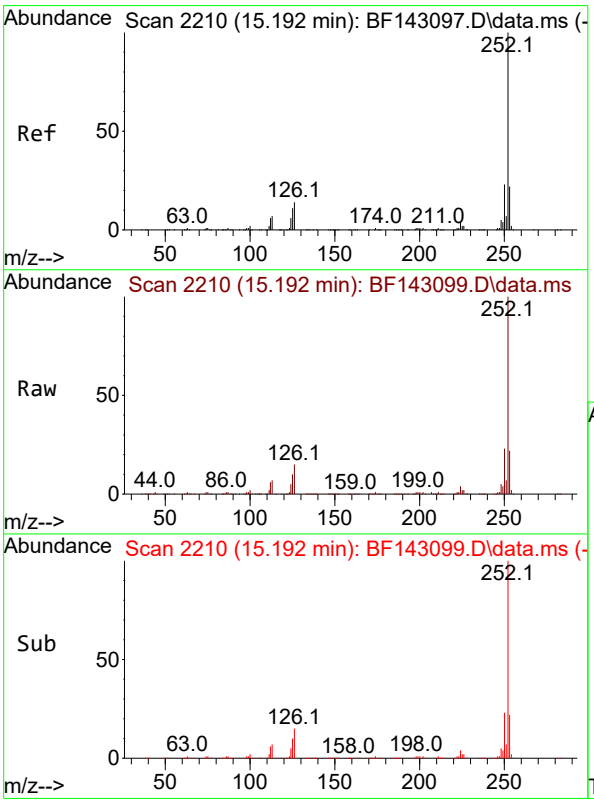
Tgt Ion:276 Resp: 118570

Ion	Ratio	Lower	Upper
276	100		
138	27.6	22.6	34.0
277	25.4	20.2	30.2

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

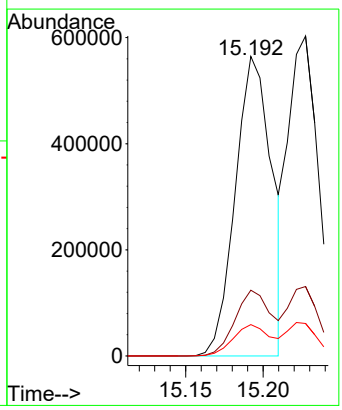


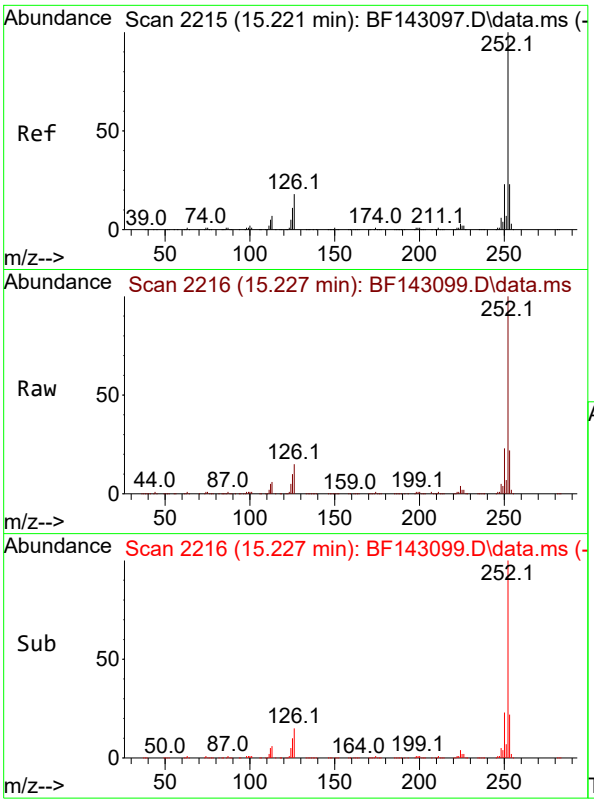


#88
Benzo(b)fluoranthene
Concen: 61.640 ng
RT: 15.192 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:252 Resp: 924866

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.5	8.6	13.0

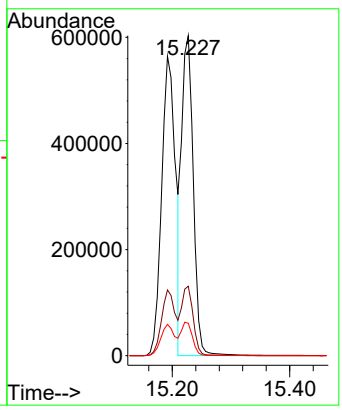




#89
Benzo(k)fluoranthene
Concen: 57.794 ng
RT: 15.227 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:252 Resp: 82727

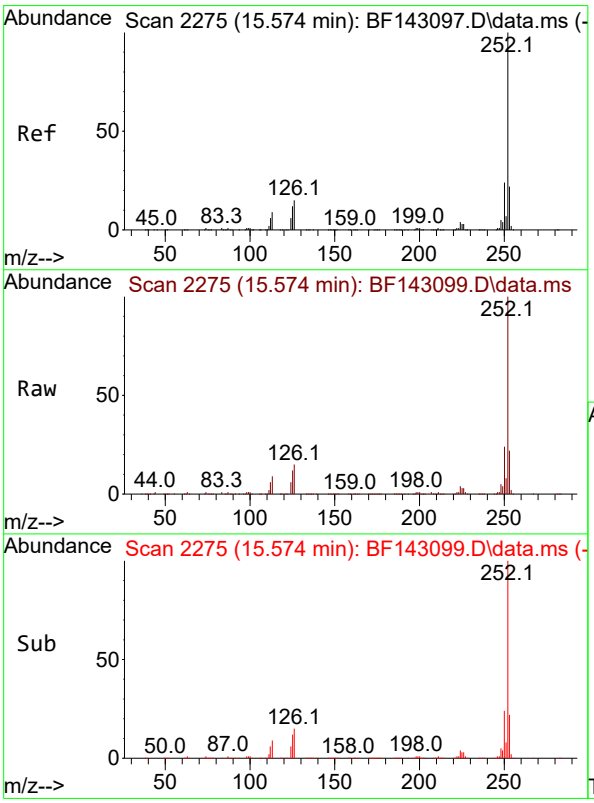
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	10.2	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

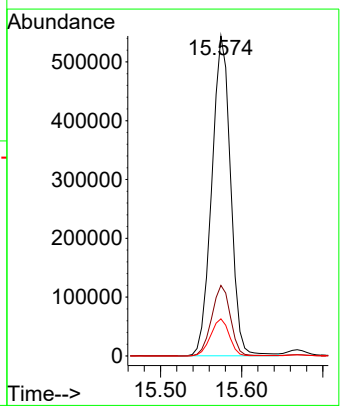
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

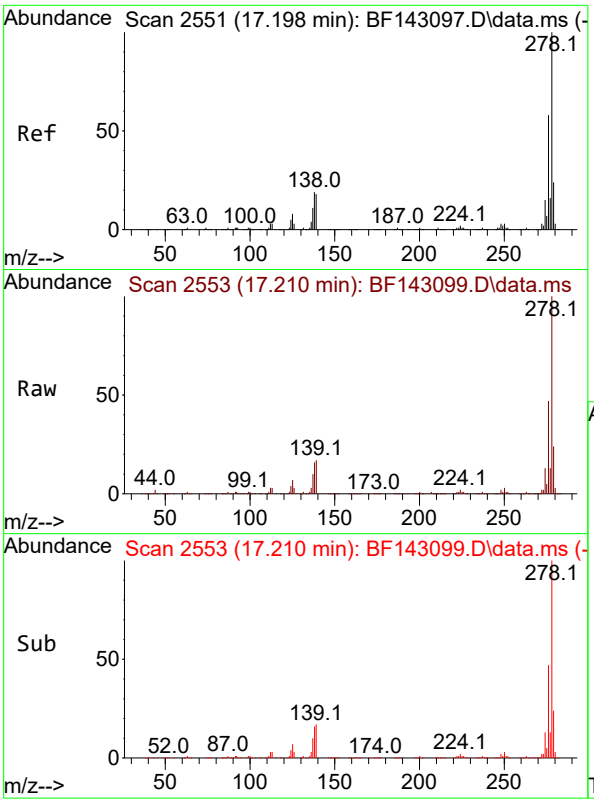


#90
Benzo(a)pyrene
Concen: 61.791 ng
RT: 15.574 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:252 Resp: 876856

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	11.6	9.4	14.0

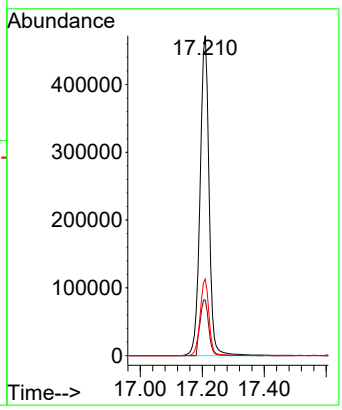




#91
Dibenzo(a,h)anthracene
Concen: 60.300 ng
RT: 17.210 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:278 Resp: 95366

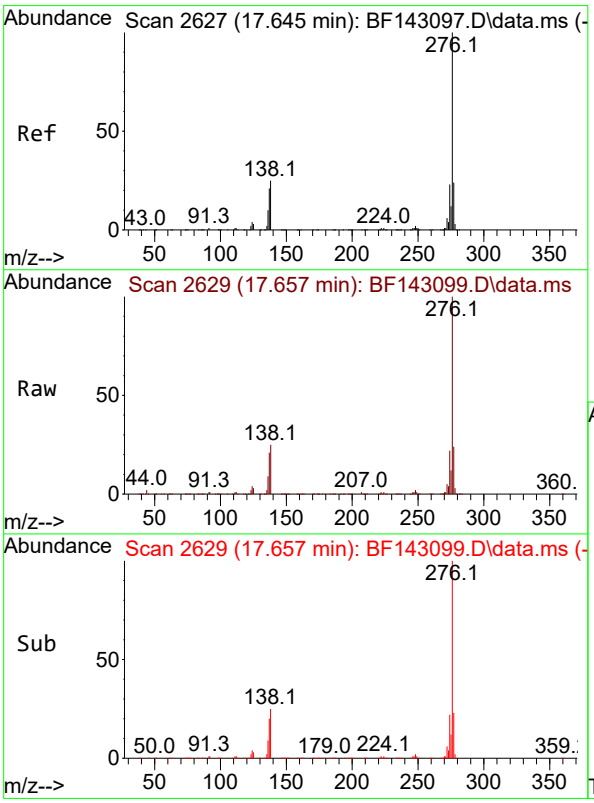
Ion	Ratio	Lower	Upper
278	100		
139	17.4	14.6	22.0
279	23.9	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

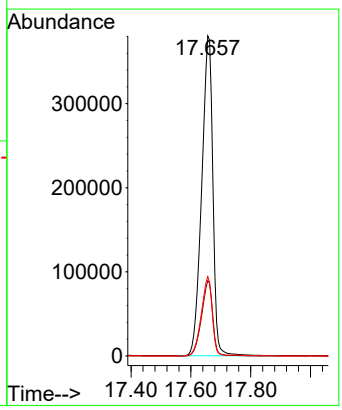
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 60.962 ng
RT: 17.657 min Scan# 2629
Delta R.T. 0.012 min
Lab File: BF143099.D
Acq: 15 Jul 2025 16:05

Tgt Ion:276 Resp: 982960

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	24.8	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143100.D
Acq On : 15 Jul 2025 16:35
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 17:42:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.969	152	129576	20.000	ng		0.00
21) Naphthalene-d8	8.251	136	487361	20.000	ng		0.00
39) Acenaphthene-d10	10.010	164	236260	20.000	ng		0.00
64) Phenanthrene-d10	11.492	188	362117	20.000	ng		0.00
76) Chrysene-d12	14.133	240	196411	20.000	ng		0.00
86) Perylene-d12	15.639	264	256691	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.593	112	1189824	145.077	ng		0.00
7) Phenol-d6	6.593	99	1493965	144.917	ng		0.00
23) Nitrobenzene-d5	7.534	82	1441614	165.933	ng		0.00
42) 2,4,6-Tribromophenol	10.798	330	355830	168.911	ng		0.00
45) 2-Fluorobiphenyl	9.328	172	2339151	131.609	ng		0.00
79) Terphenyl-d14	13.075	244	1779829	132.466	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.805	88	303852	74.427	ng		100
3) Pyridine	3.581	79	787323	76.158	ng		99
4) n-Nitrosodimethylamine	3.534	42	421072	78.614	ng		100
6) Aniline	6.634	93	1072162	73.855	ng		100
8) 2-Chlorophenol	6.757	128	628294	76.249	ng		99
9) Benzaldehyde	6.522	77	447861	57.014	ng		99
10) Phenol	6.610	94	820918m	73.558	ng		
11) bis(2-Chloroethyl)ether	6.704	93	626821	72.551	ng		98
12) 1,3-Dichlorobenzene	6.916	146	666489	71.595	ng		100
13) 1,4-Dichlorobenzene	6.987	146	669586	71.496	ng		99
14) 1,2-Dichlorobenzene	7.145	146	643168	72.014	ng		99
15) Benzyl Alcohol	7.104	79	586953	76.840	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.245	45	1125357	70.661	ng		98
17) 2-Methylphenol	7.216	107	536428	75.438	ng		99
18) Hexachloroethane	7.487	117	235713	77.313	ng		99
19) n-Nitroso-di-n-propyla...	7.393	70	464705	73.578	ng		98
20) 3+4-Methylphenols	7.369	107	616275	70.670	ng		95
22) Acetophenone	7.381	105	817243	69.563	ng	#	95
24) Nitrobenzene	7.551	77	676569	80.671	ng		99
25) Isophorone	7.798	82	1269015	75.573	ng		100
26) 2-Nitrophenol	7.863	139	287169	82.598	ng		98
27) 2,4-Dimethylphenol	7.898	122	582059	74.683	ng		98
28) bis(2-Chloroethoxy)met...	7.998	93	731977	71.885	ng		100
29) 2,4-Dichlorophenol	8.104	162	496027	77.795	ng		99
30) 1,2,4-Trichlorobenzene	8.192	180	520808	71.974	ng		98
31) Naphthalene	8.275	128	1711163	70.704	ng		100
32) Benzoic acid	8.022	122	336178	81.374	ng		99
33) 4-Chloroaniline	8.316	127	688999	70.795	ng		99
34) Hexachlorobutadiene	8.398	225	318274	73.546	ng		98
35) Caprolactam	8.698	113	161466	81.097	ng		94
36) 4-Chloro-3-methylphenol	8.792	107	539340	75.937	ng		97
37) 2-Methylnaphthalene	8.963	142	1021312	70.738	ng		99
38) 1-Methylnaphthalene	9.063	142	1047560	69.955	ng		100
40) 1,2,4,5-Tetrachloroben...	9.134	216	493246	71.639	ng		99
41) Hexachlorocyclopentadiene	9.128	237	324865	85.103	ng		98
43) 2,4,6-Trichlorophenol	9.239	196	355839	83.176	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143100.D
Acq On : 15 Jul 2025 16:35
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 15 17:42:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.275	196	357298	79.651	ng		99
46) 1,1'-Biphenyl	9.428	154	1307947	69.419	ng		99
47) 2-Chloronaphthalene	9.457	162	990436	71.557	ng		99
48) 2-Nitroaniline	9.539	65	335875	79.074	ng		99
49) Acenaphthylene	9.875	152	1650097	71.544	ng		99
50) Dimethylphthalate	9.728	163	1104756	74.327	ng		100
51) 2,6-Dinitrotoluene	9.787	165	233478	77.660	ng		91
52) Acenaphthene	10.045	154	975285	71.657	ng		99
53) 3-Nitroaniline	9.951	138	279161	86.920	ng		99
54) 2,4-Dinitrophenol	10.057	184	91751	79.064	ng	#	1
55) Dibenzofuran	10.216	168	1432458	70.610	ng		100
56) 4-Nitrophenol	10.098	139	219224	85.886	ng		97
57) 2,4-Dinitrotoluene	10.186	165	302558	80.048	ng		99
58) Fluorene	10.557	166	1043990	68.640	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.328	232	291933	81.893	ng		99
60) Diethylphthalate	10.428	149	1067815	74.464	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	524910	72.005	ng		98
62) 4-Nitroaniline	10.569	138	244461	87.527	ng		97
63) Azobenzene	10.710	77	1141613	71.985	ng		98
65) 4,6-Dinitro-2-methylph...	10.598	198	125251	78.600	ng		96
66) n-Nitrosodiphenylamine	10.663	169	947890	74.520	ng		99
67) 4-Bromophenyl-phenylether	11.039	248	316619	76.885	ng		97
68) Hexachlorobenzene	11.110	284	333899	76.417	ng		96
69) Atrazine	11.186	200	266668	81.943	ng		97
70) Pentachlorophenol	11.292	266	210729	87.905	ng		99
71) Phenanthrene	11.522	178	1401500	71.714	ng		99
72) Anthracene	11.569	178	1423259	72.421	ng		99
73) Carbazole	11.716	167	1264053	71.796	ng		100
74) Di-n-butylphthalate	12.051	149	1299711	80.422	ng		100
75) Fluoranthene	12.704	202	1258479	70.821	ng		99
77) Benzidine	12.816	184	403599	60.315	ng		99
78) Pyrene	12.933	202	1244953	68.315	ng		99
80) Butylbenzylphthalate	13.551	149	301525	79.914	ng		99
81) Benzo(a)anthracene	14.122	228	979909	74.870	ng		99
82) 3,3'-Dichlorobenzidine	14.080	252	296061	77.896	ng		99
83) Chrysene	14.157	228	913035	75.743	ng		98
84) Bis(2-ethylhexyl)phtha...	14.110	149	458210	80.495	ng		99
85) Di-n-octyl phthalate	14.727	149	916748	82.209	ng		98
87) Indeno(1,2,3-cd)pyrene	17.192	276	1509813	79.082	ng		98
88) Benzo(b)fluoranthene	15.198	252	1115815	75.360	ng		99
89) Benzo(k)fluoranthene	15.227	252	1083939	76.736	ng		99
90) Benzo(a)pyrene	15.580	252	1107280	79.071	ng		99
91) Dibenzo(a,h)anthracene	17.215	278	1209971	77.528	ng		98
92) Benzo(g,h,i)perylene	17.668	276	1246206	78.321	ng		98

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

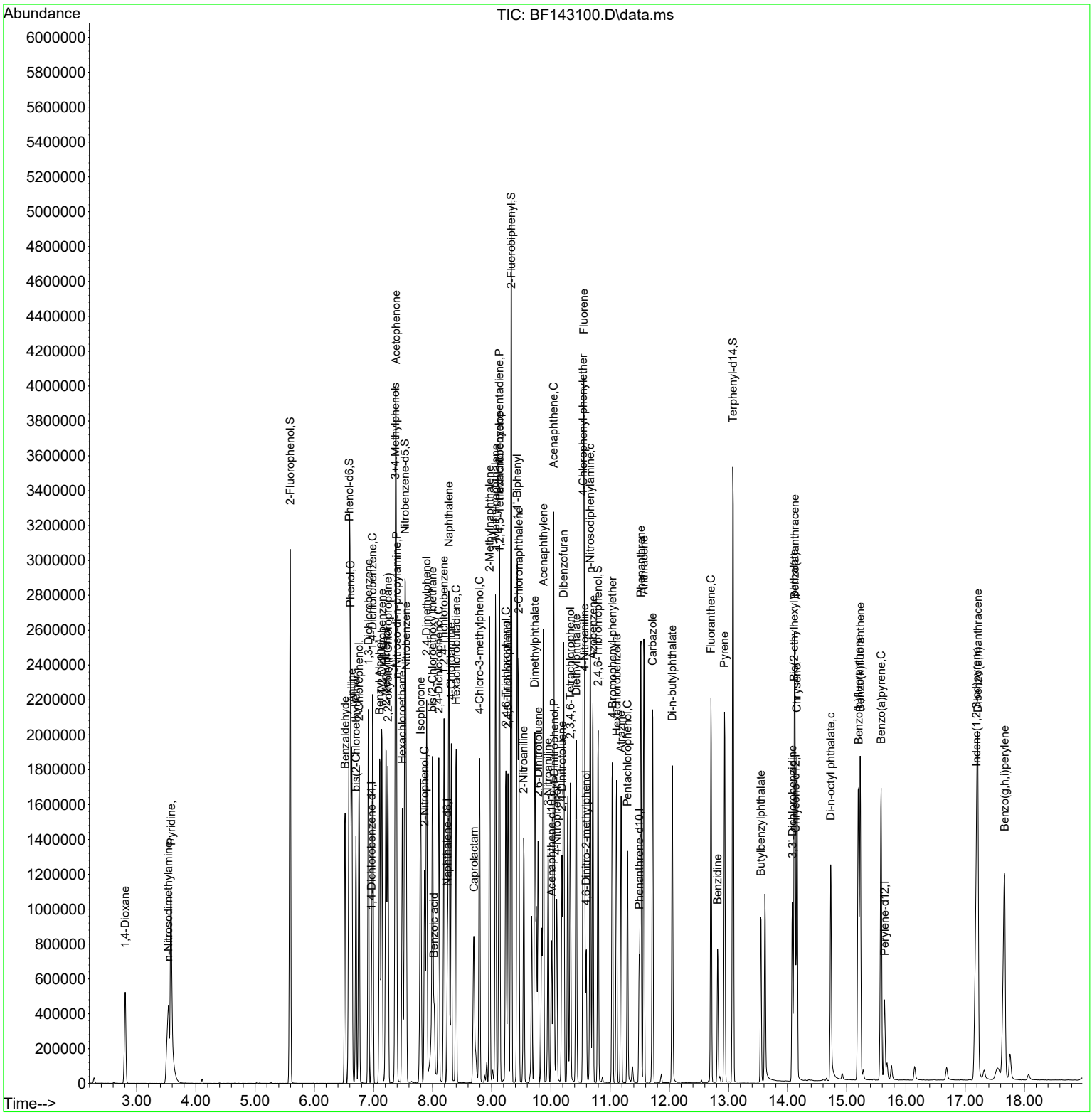
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143100.D
Acq On : 15 Jul 2025 16:35
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

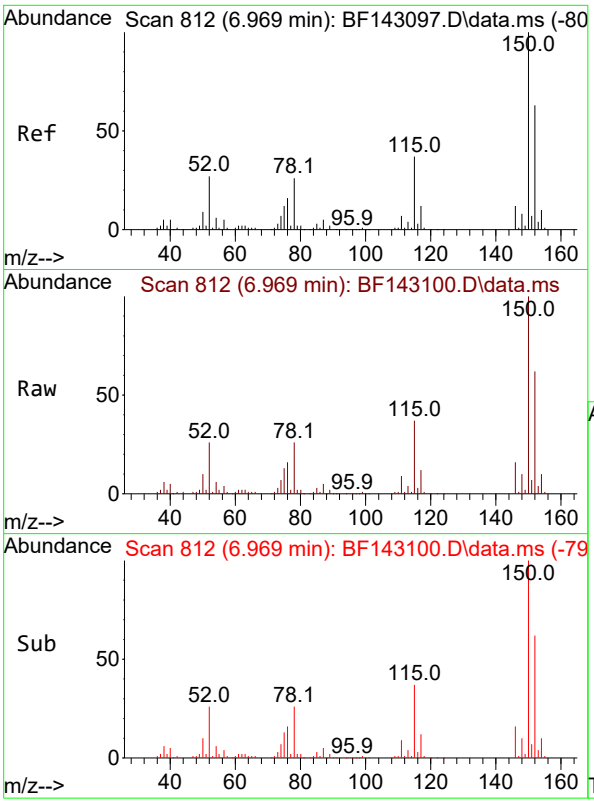
Quant Time: Jul 15 17:42:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:08:07 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

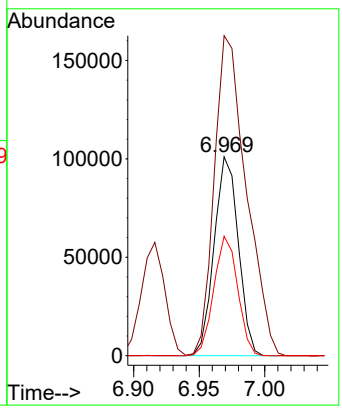




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:152 Resp: 12957

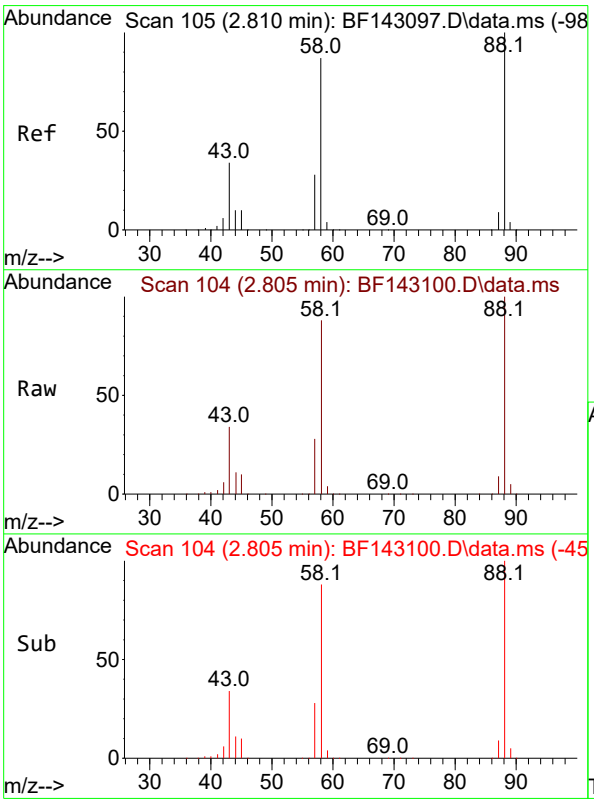
Ion	Ratio	Lower	Upper
152	100		
150	160.9	126.5	189.7
115	60.0	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

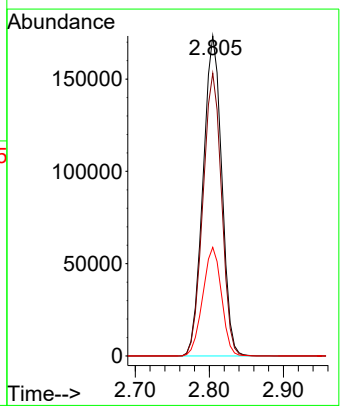
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

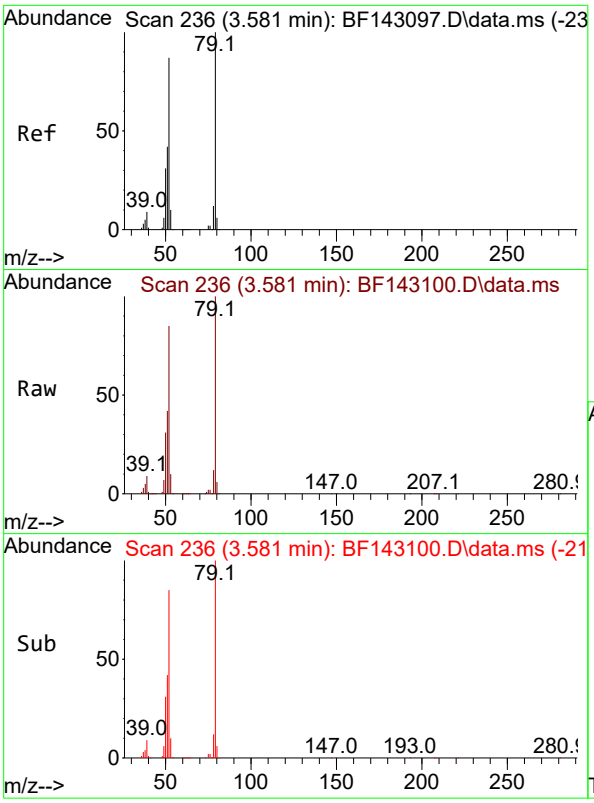


#2
1,4-Dioxane
Concen: 74.427 ng
RT: 2.805 min Scan# 104
Delta R.T. -0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 88 Resp: 303852

Ion	Ratio	Lower	Upper
88	100		
58	87.8	70.5	105.7
43	33.9	27.3	40.9

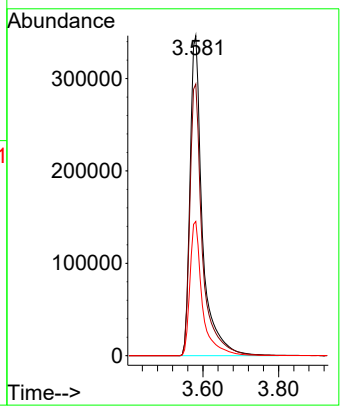




#3
Pyridine
Concen: 76.158 ng
RT: 3.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 79 Resp: 78732

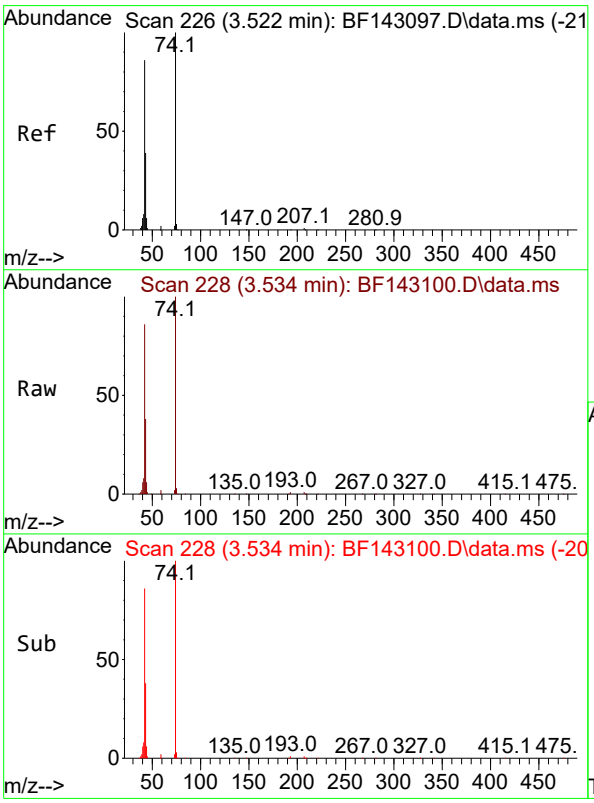
Ion	Ratio	Lower	Upper
79	100		
52	84.9	69.2	103.8
51	42.0	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

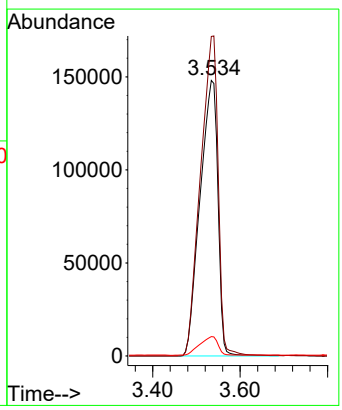
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

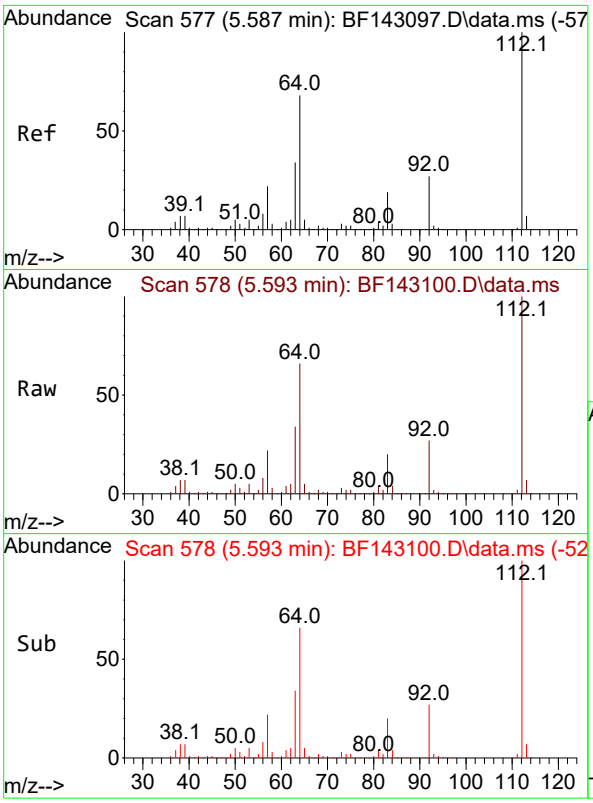


#4
n-Nitrosodimethylamine
Concen: 78.614 ng
RT: 3.534 min Scan# 228
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 42 Resp: 421072

Ion	Ratio	Lower	Upper
42	100		
74	115.9	92.8	139.2
44	7.0	5.8	8.6

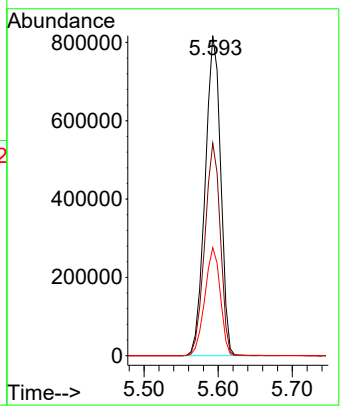




#5
2-Fluorophenol
Concen: 145.077 ng
RT: 5.593 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:112 Resp: 118982

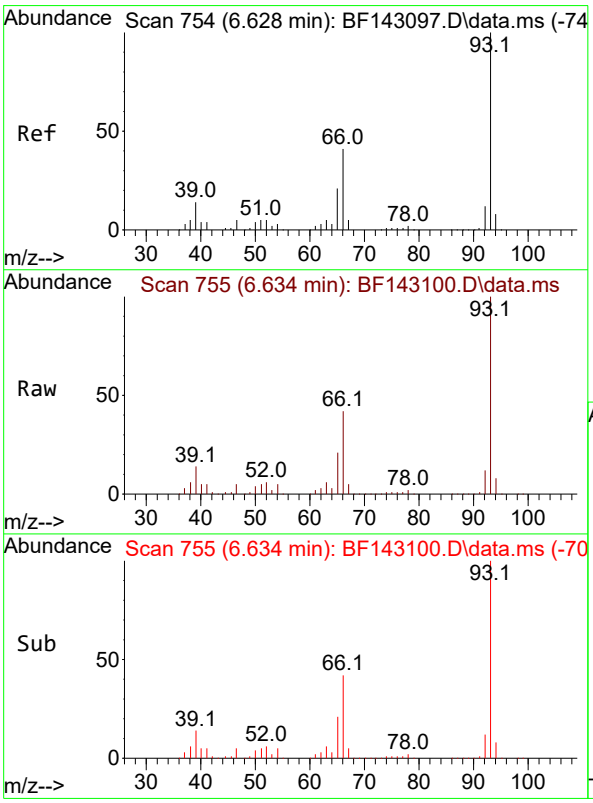
Ion	Ratio	Lower	Upper
112	100		
64	66.4	54.6	82.0
63	33.7	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

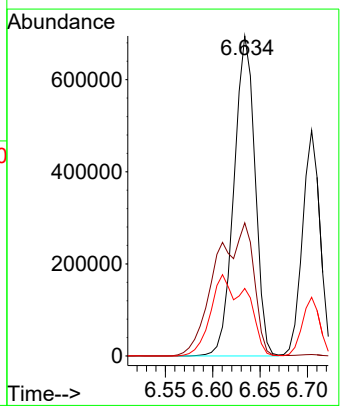
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

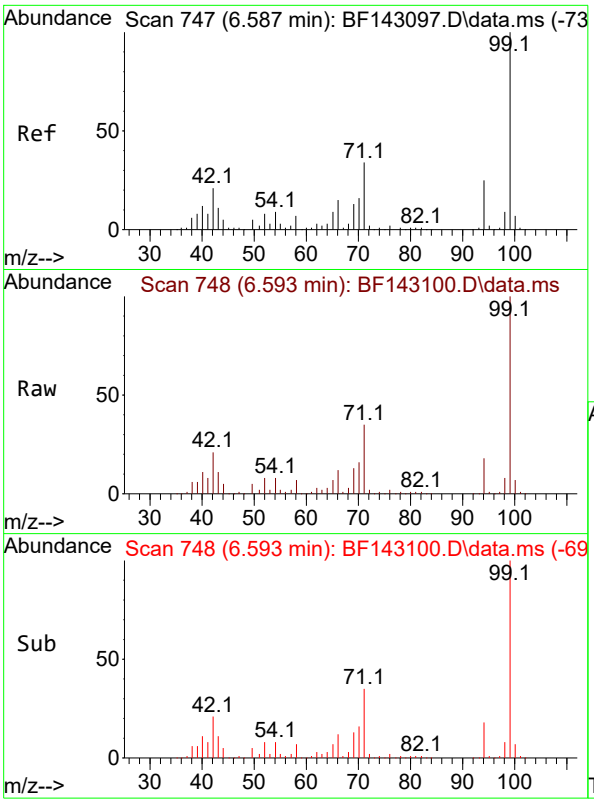


#6
Aniline
Concen: 73.855 ng
RT: 6.634 min Scan# 755
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 93 Resp: 1072162

Ion	Ratio	Lower	Upper
93	100		
66	41.6	33.1	49.7
65	21.1	16.9	25.3

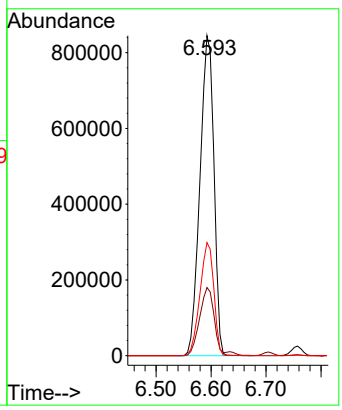




#7
Phenol-d6
Concen: 144.917 ng
RT: 6.593 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 99 Resp: 149396

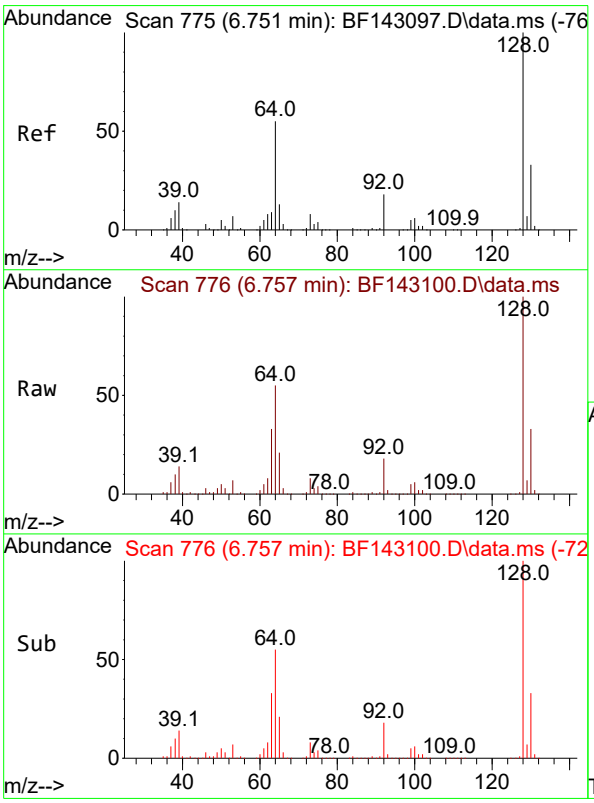
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.2	25.8
71	35.4	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

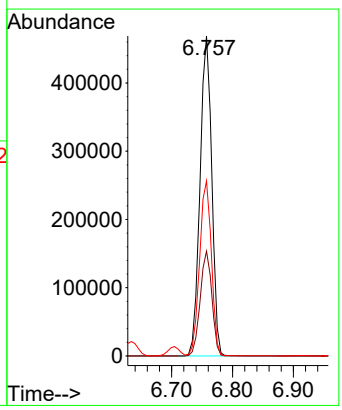
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

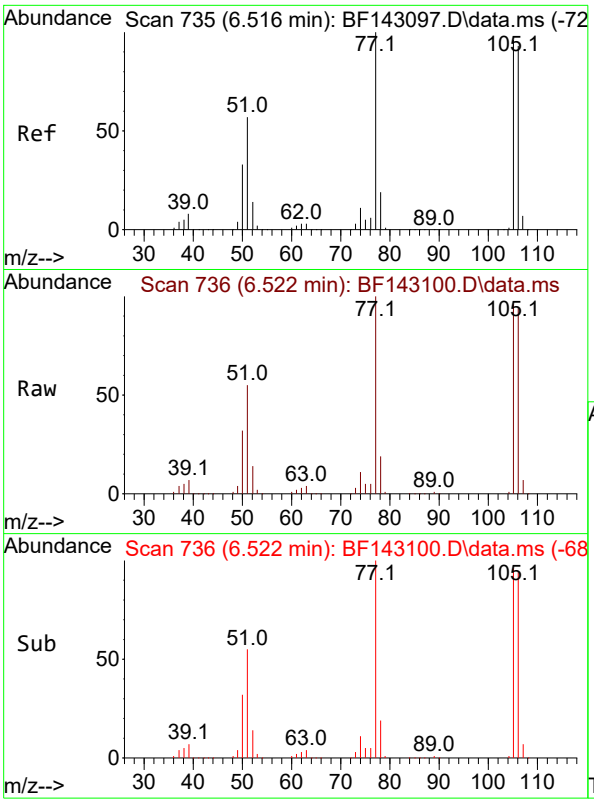


#8
2-Chlorophenol
Concen: 76.249 ng
RT: 6.757 min Scan# 776
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:128 Resp: 628294

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	54.7	36.1	76.1

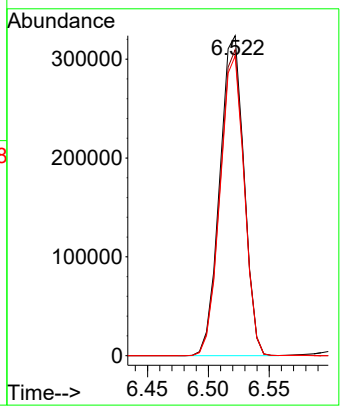




#9
Benzaldehyde
Concen: 57.014 ng
RT: 6.522 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 77 Resp: 44786

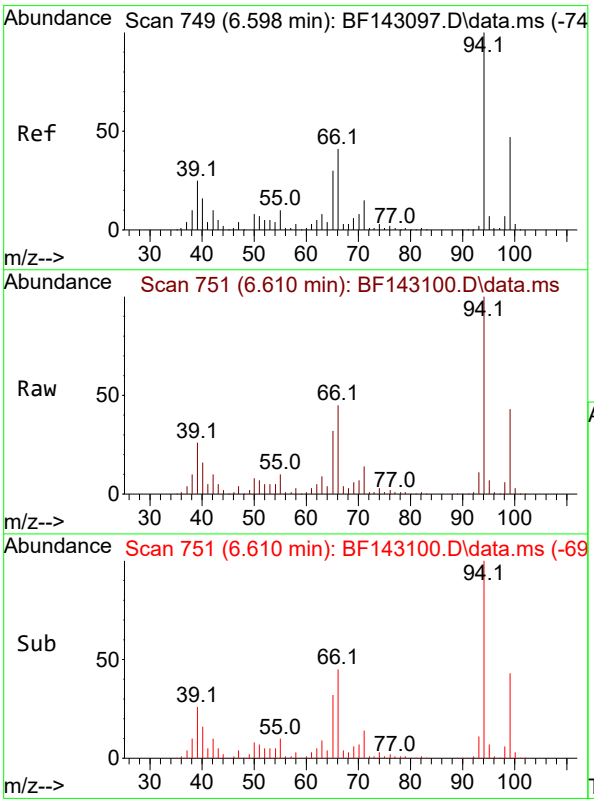
Ion	Ratio	Lower	Upper
77	100		
105	95.6	76.3	116.3
106	93.6	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

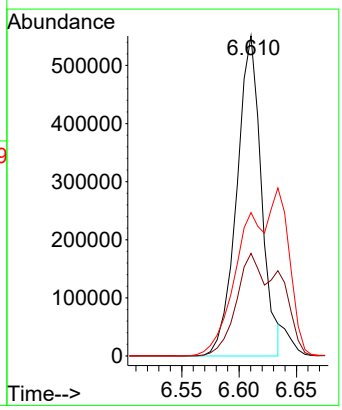
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

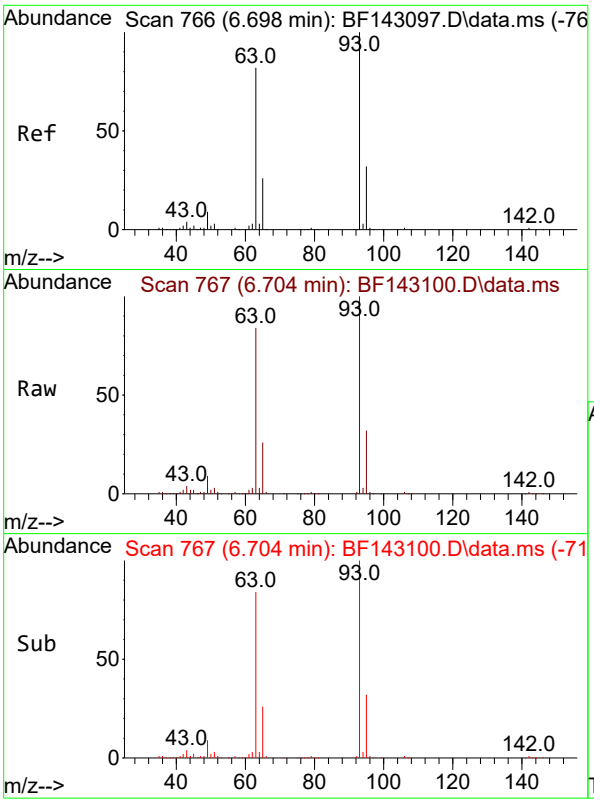


#10
Phenol
Concen: 73.558 ng m
RT: 6.610 min Scan# 751
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 94 Resp: 820918

Ion	Ratio	Lower	Upper
94	100		
65	32.1	9.8	49.8
66	44.8	20.5	60.5

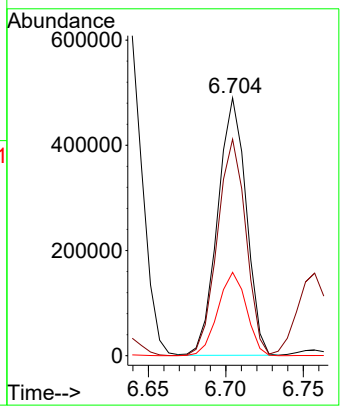




#11
bis(2-Chloroethyl)ether
Concen: 72.551 ng
RT: 6.704 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 93 Resp: 62682

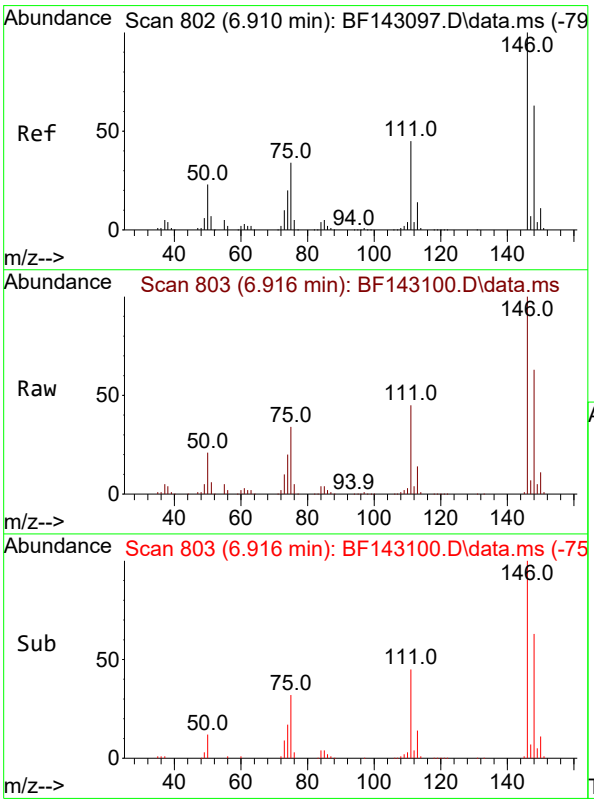
Ion	Ratio	Lower	Upper
93	100		
63	84.0	61.9	101.9
95	32.3	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

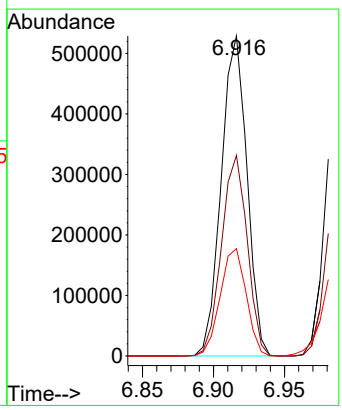
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

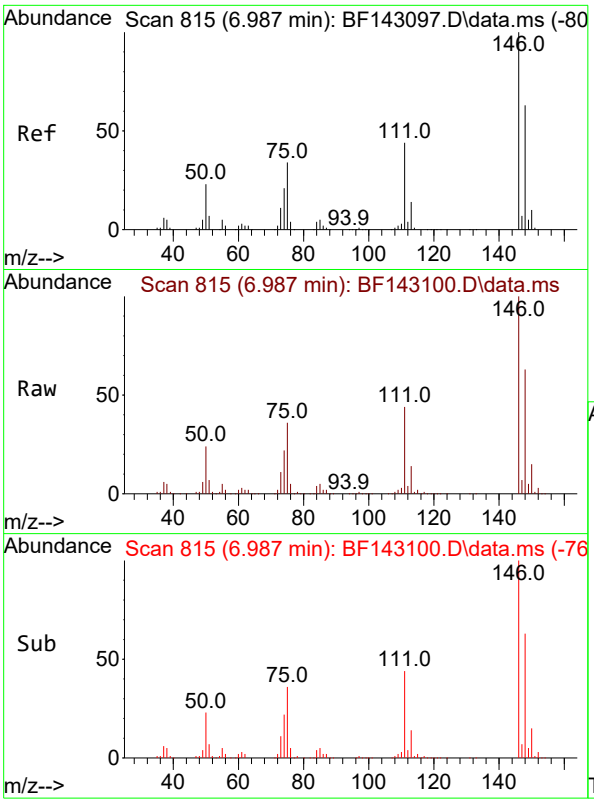


#12
1,3-Dichlorobenzene
Concen: 71.595 ng
RT: 6.916 min Scan# 803
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:146 Resp: 666489

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.1	75.1
75	33.5	27.4	41.0

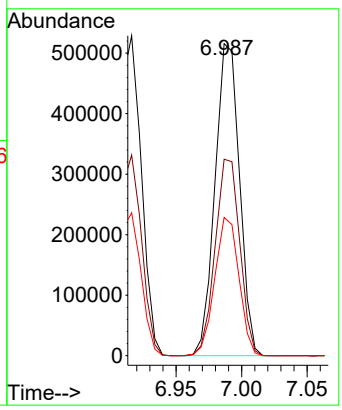




#13
1,4-Dichlorobenzene
Concen: 71.496 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:146 Resp: 66958

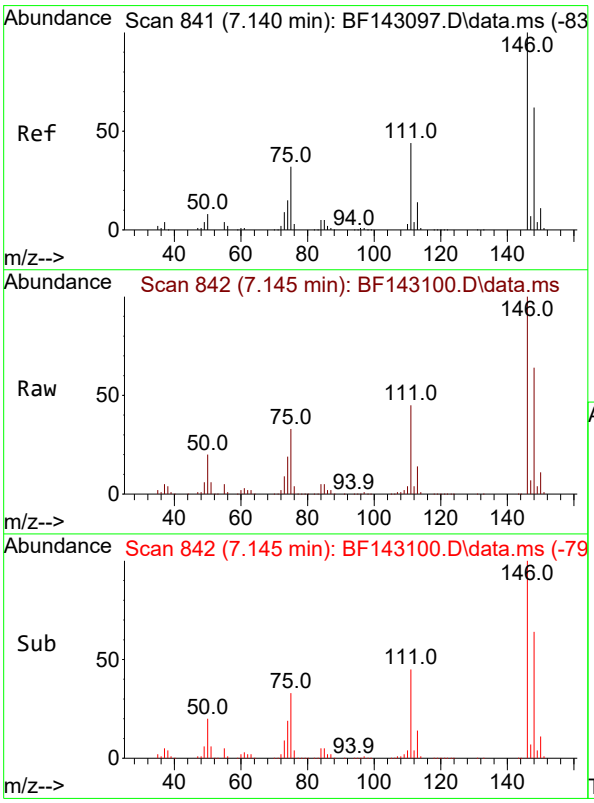
Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.6	76.0
111	44.3	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

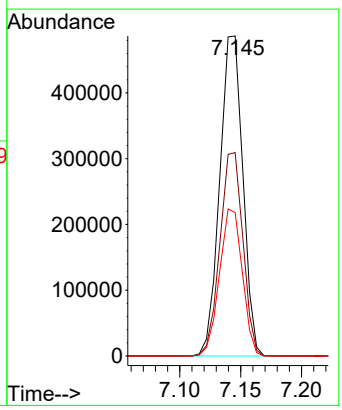
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

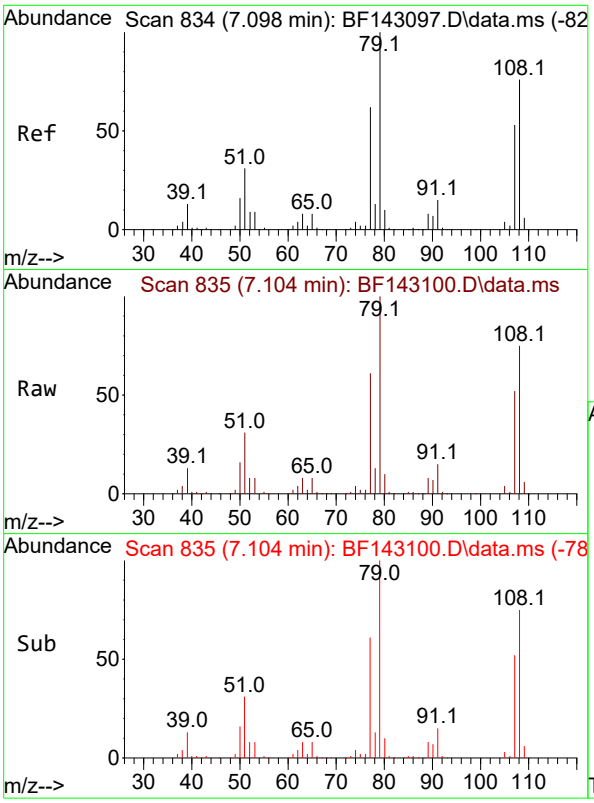


#14
1,2-Dichlorobenzene
Concen: 72.014 ng
RT: 7.145 min Scan# 842
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:146 Resp: 643168

Ion	Ratio	Lower	Upper
146	100		
148	63.6	49.8	74.6
111	44.8	35.4	53.0

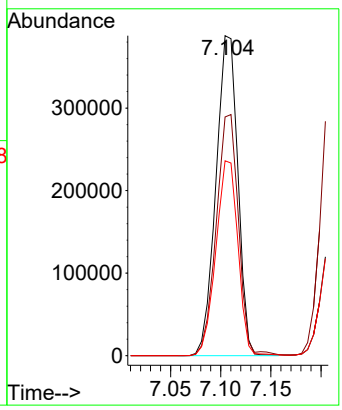




#15
Benzyl Alcohol
Concen: 76.840 ng
RT: 7.104 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 79 Resp: 58695

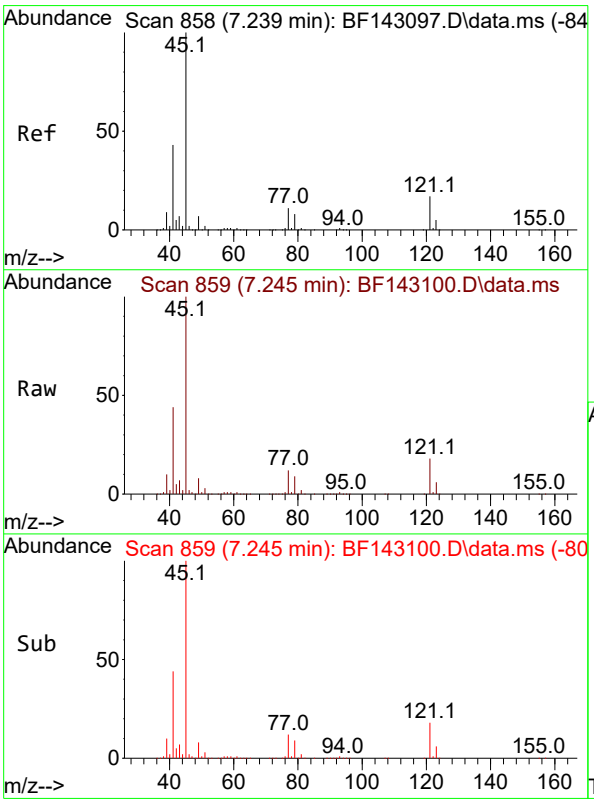
Ion	Ratio	Lower	Upper
79	100		
108	74.6	61.1	91.7
77	60.9	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

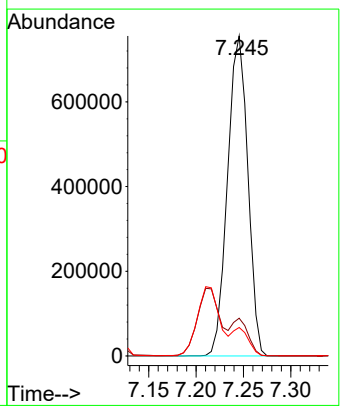
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

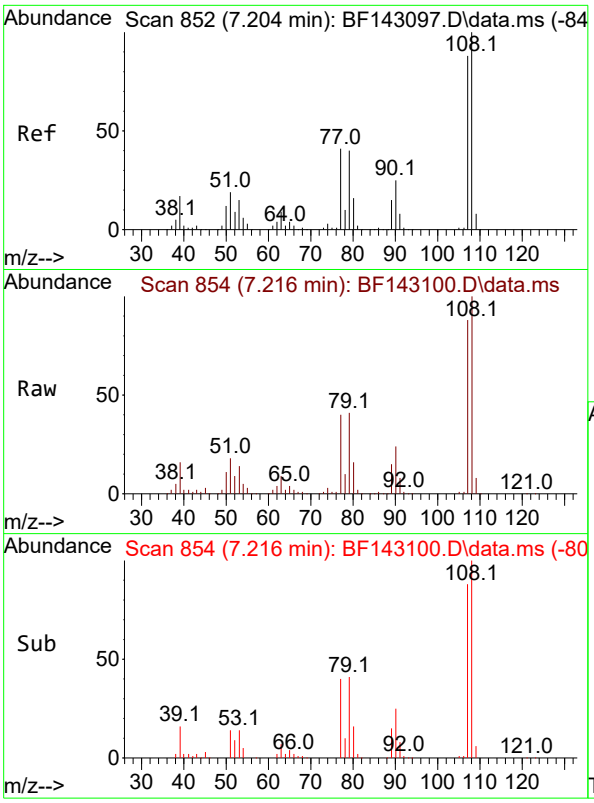


#16
2,2'-oxybis(1-Chloropropane)
Concen: 70.661 ng
RT: 7.245 min Scan# 859
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 45 Resp: 1125357

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	31.1
79	8.9	0.0	28.4

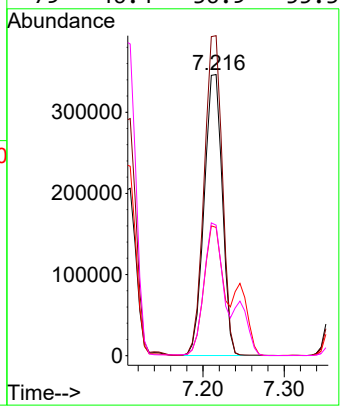




#17
2-Methylphenol
Concen: 75.438 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:107 Resp: 53642

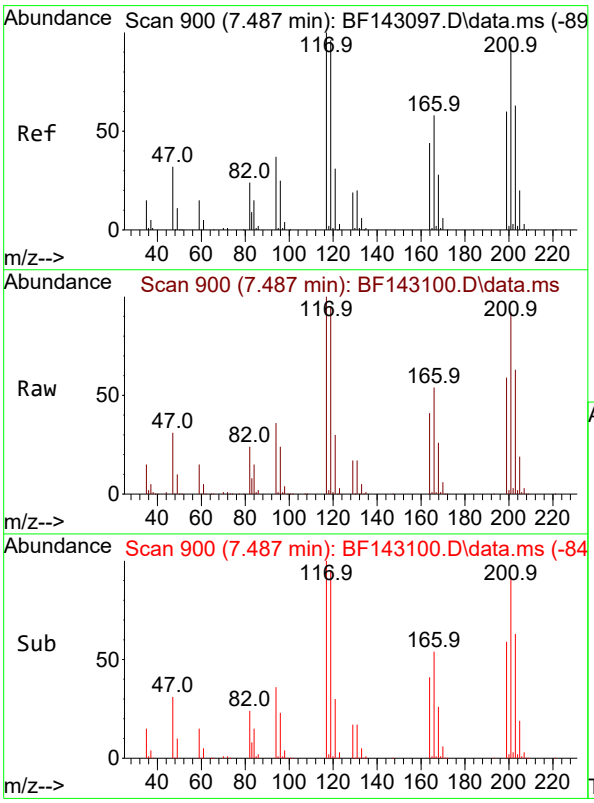
Ion	Ratio	Lower	Upper
107	100		
108	113.8	90.9	136.3
77	45.6	37.5	56.3
79	46.4	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

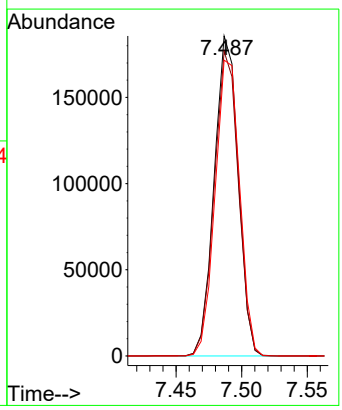
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

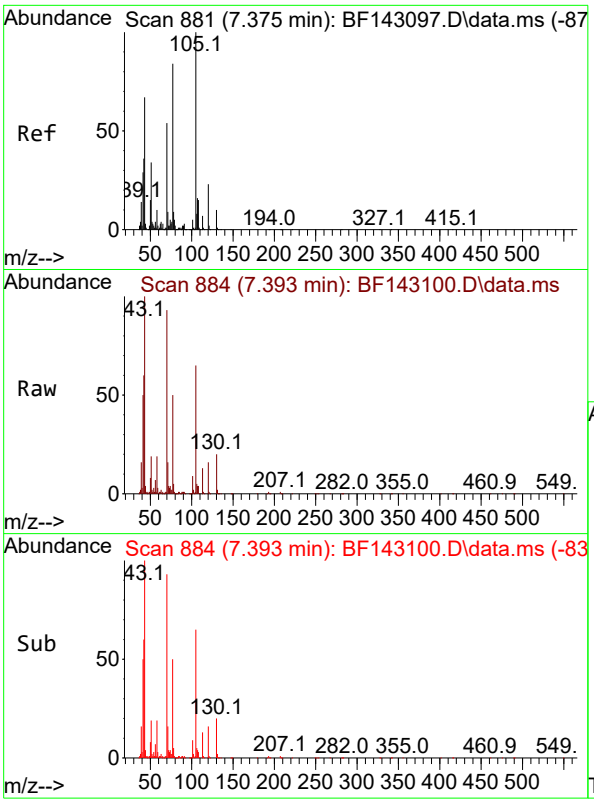


#18
Hexachloroethane
Concen: 77.313 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:117 Resp: 235713

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.7	115.1
201	92.5	75.0	112.4

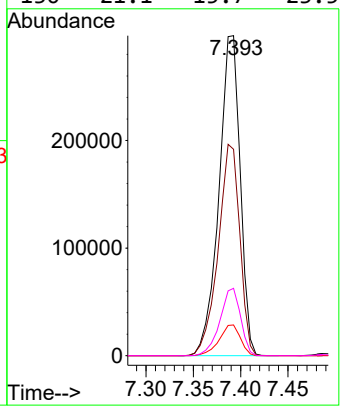




#19
n-Nitroso-di-n-propylamine
Concen: 73.578 ng
RT: 7.393 min Scan# 8
Delta R.T. 0.018 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 70 Resp: 46470

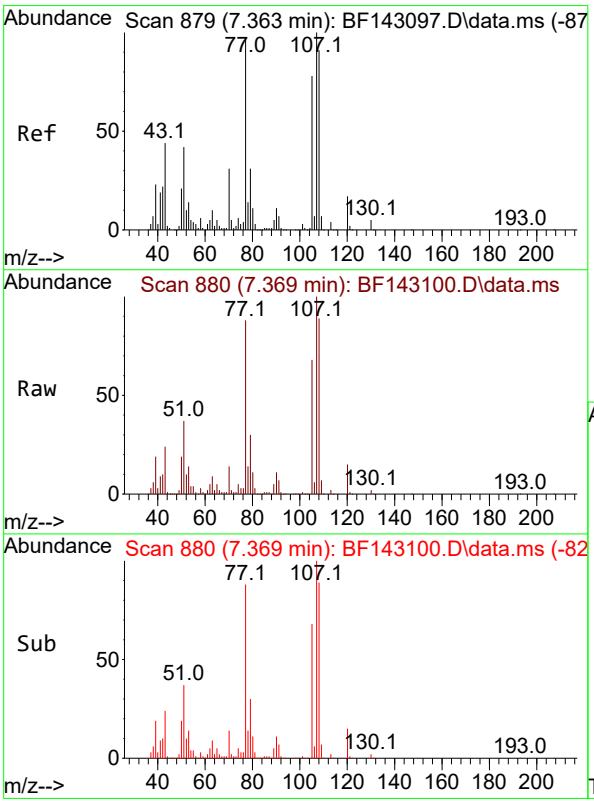
Ion	Ratio	Lower	Upper
70	100		
42	64.5	53.2	79.8
101	9.6	7.5	11.3
130	21.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

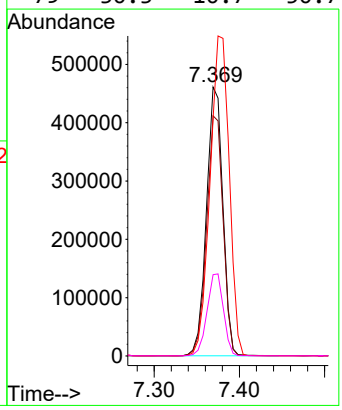
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

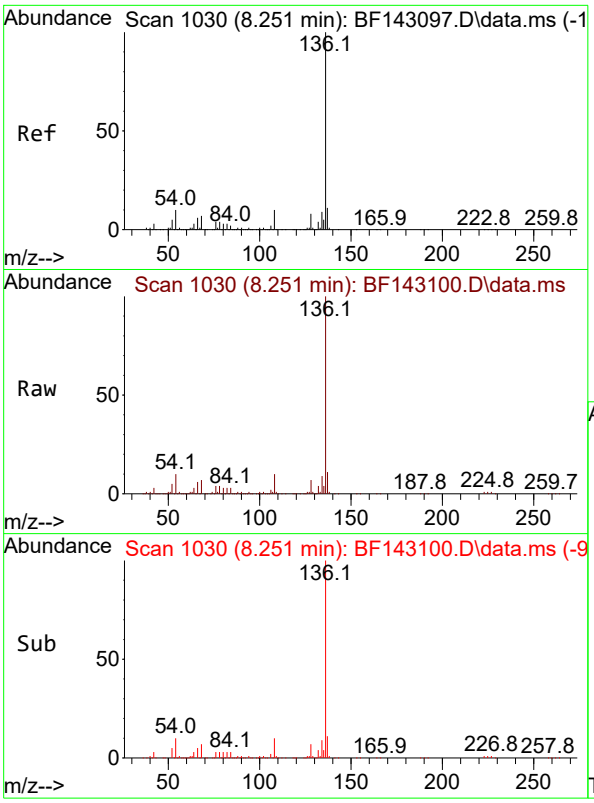


#20
3+4-Methylphenols
Concen: 70.670 ng
RT: 7.369 min Scan# 880
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:107 Resp: 616275

Ion	Ratio	Lower	Upper
107	100		
108	89.3	71.3	111.3
77	88.3	77.2	117.2
79	30.3	10.7	50.7

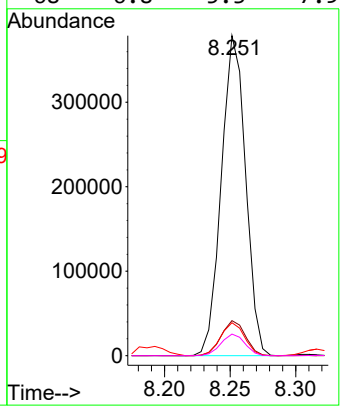




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:136 Resp: 48736

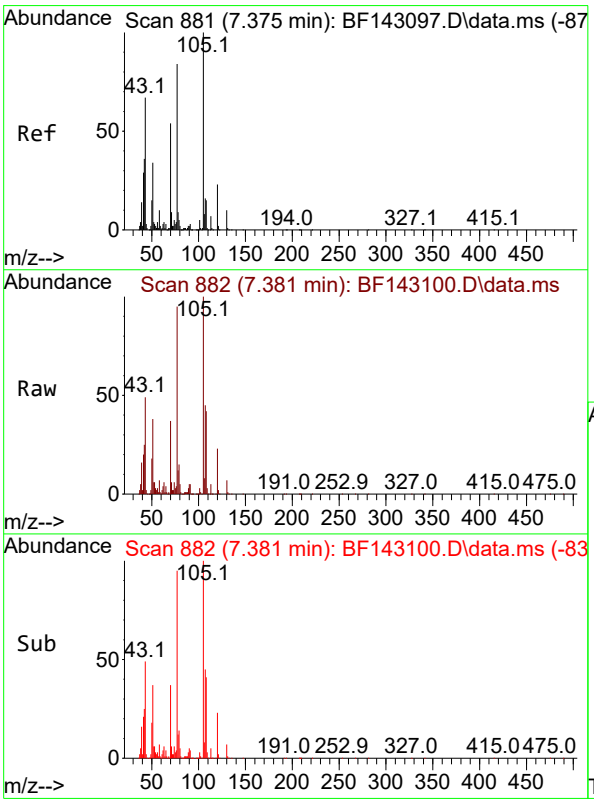
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	10.3	8.3	12.5
68	6.8	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

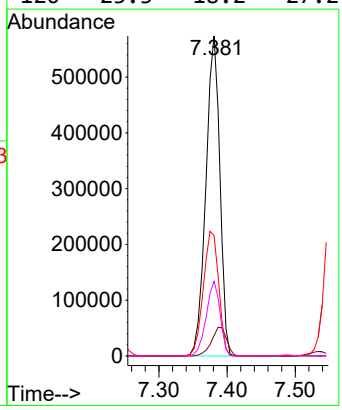
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

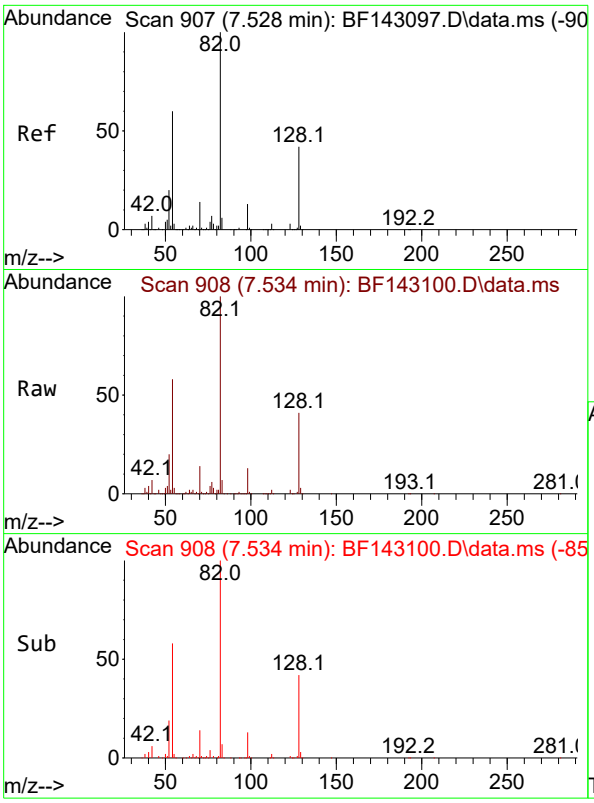


#22
Acetophenone
Concen: 69.563 ng
RT: 7.381 min Scan# 882
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:105 Resp: 817243

Ion	Ratio	Lower	Upper
105	100		
71	6.4	7.2	10.8#
51	37.7	27.0	40.4
120	23.3	18.2	27.2

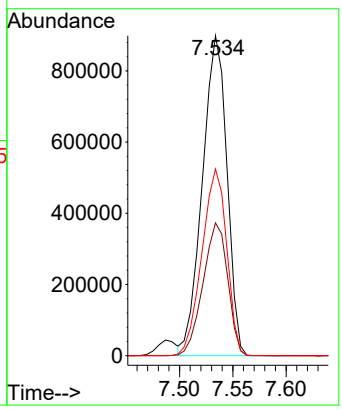




#23
Nitrobenzene-d5
Concen: 165.933 ng
RT: 7.534 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 82 Resp: 144161

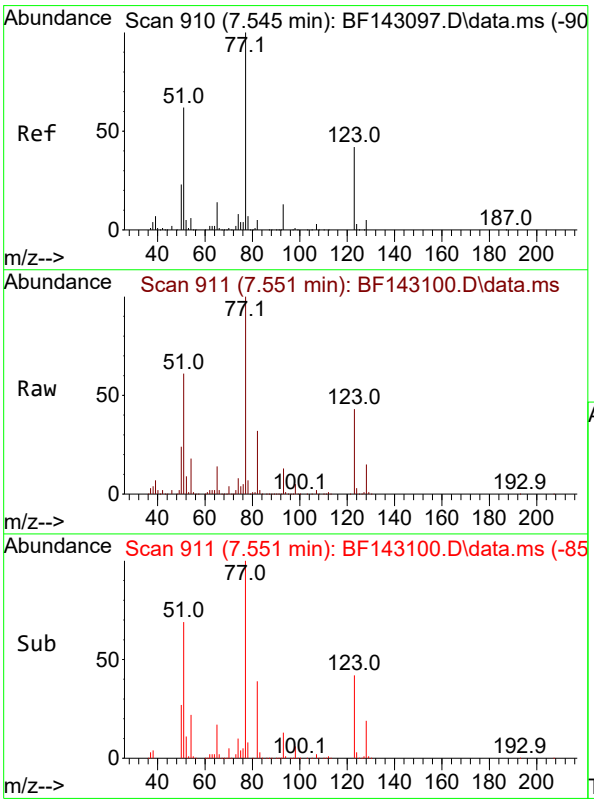
Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.3	49.9
54	58.4	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

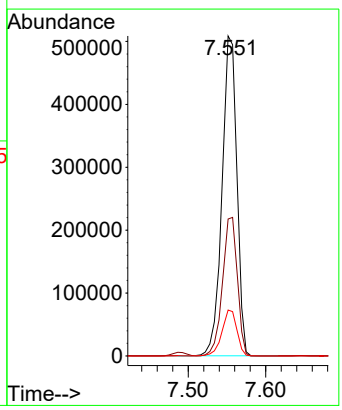
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

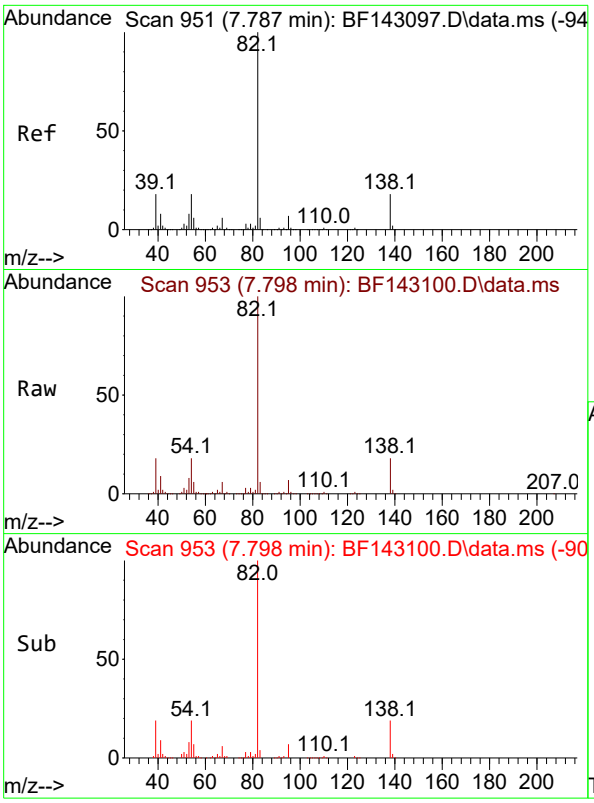


#24
Nitrobenzene
Concen: 80.671 ng
RT: 7.551 min Scan# 911
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 77 Resp: 676569

Ion	Ratio	Lower	Upper
77	100		
123	42.8	34.5	51.7
65	14.3	11.3	16.9

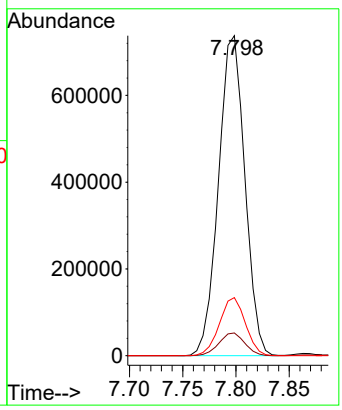




#25
Isophorone
Concen: 75.573 ng
RT: 7.798 min Scan# 9
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 82 Resp: 126901

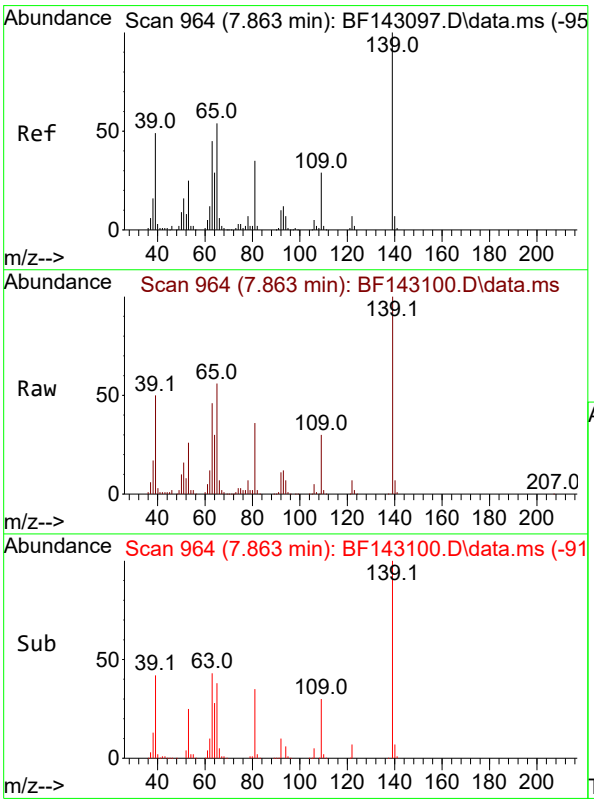
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	18.2	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

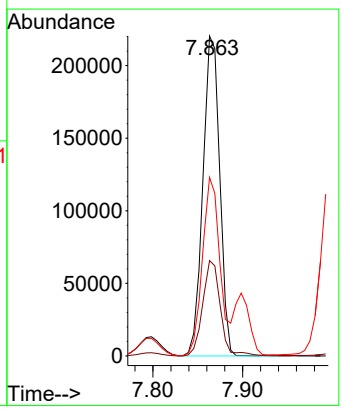
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

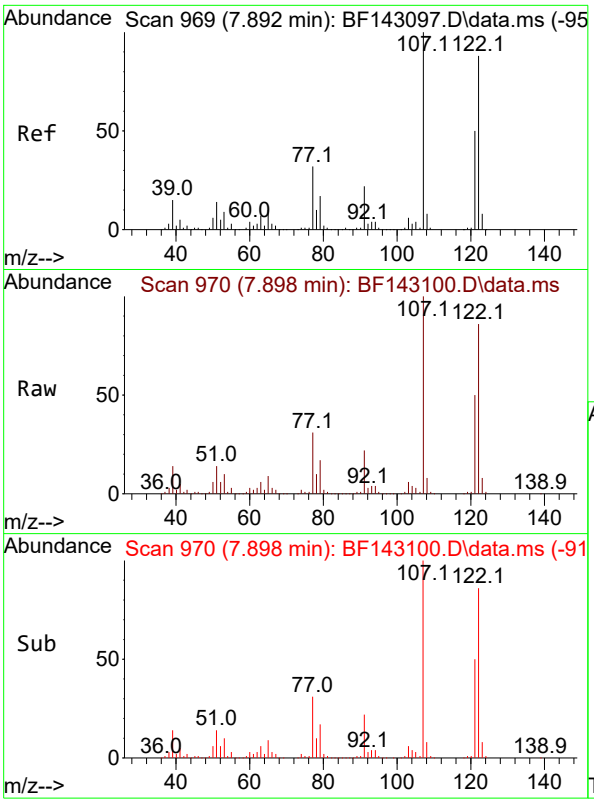


#26
2-Nitrophenol
Concen: 82.598 ng
RT: 7.863 min Scan# 964
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:139 Resp: 287169

Ion	Ratio	Lower	Upper
139	100		
109	29.8	23.4	35.0
65	55.8	43.4	65.2

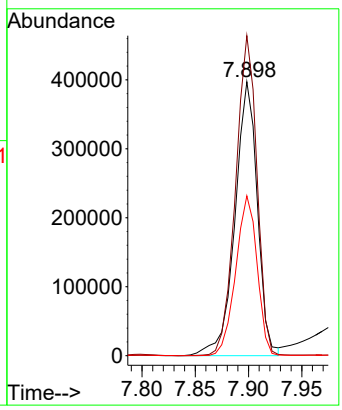




#27
2,4-Dimethylphenol
Concen: 74.683 ng
RT: 7.898 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:122 Resp: 58205

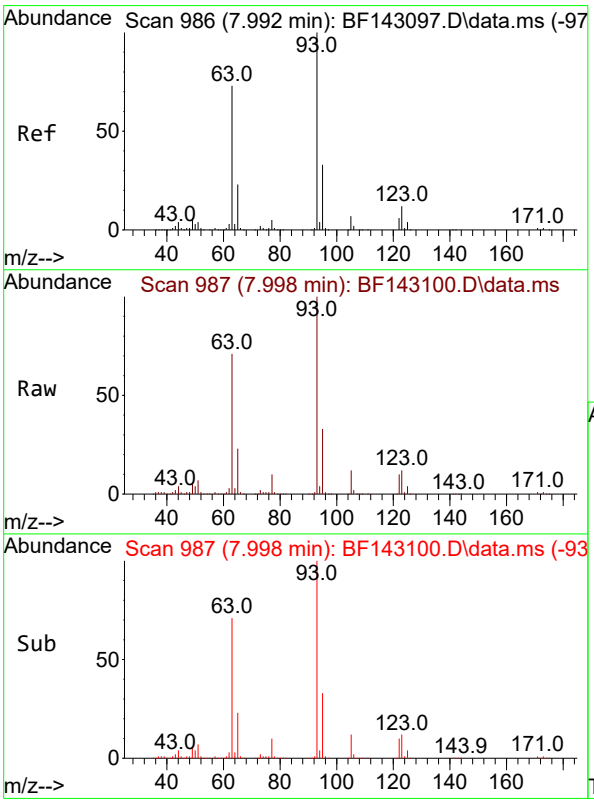
Ion	Ratio	Lower	Upper
122	100		
107	116.8	91.3	136.9
121	58.4	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

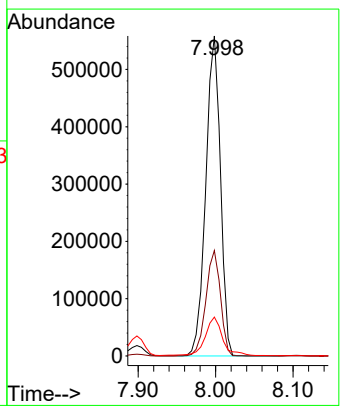
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

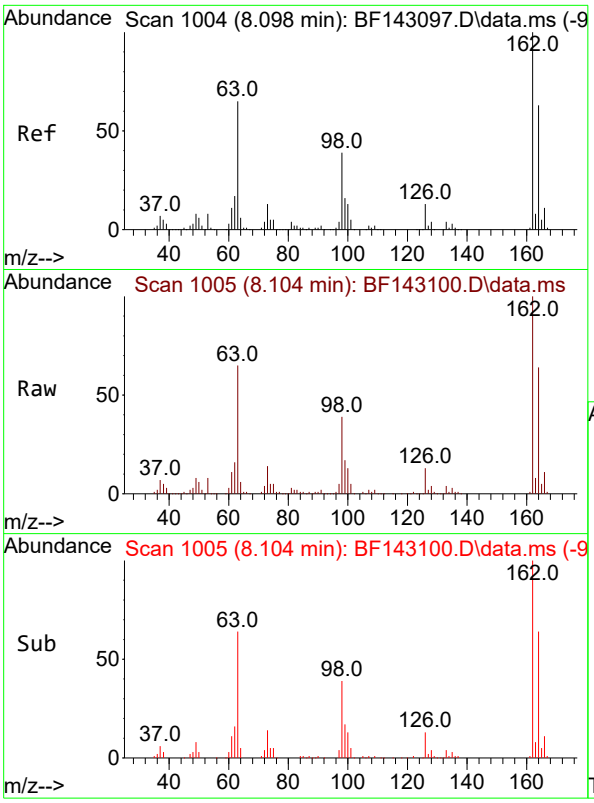


#28
bis(2-Chloroethoxy)methane
Concen: 71.885 ng
RT: 7.998 min Scan# 987
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 93 Resp: 731977

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.2	39.4
123	12.1	9.6	14.4

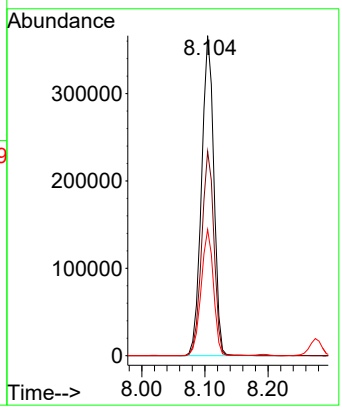




#29
2,4-Dichlorophenol
Concen: 77.795 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:162 Resp: 49602

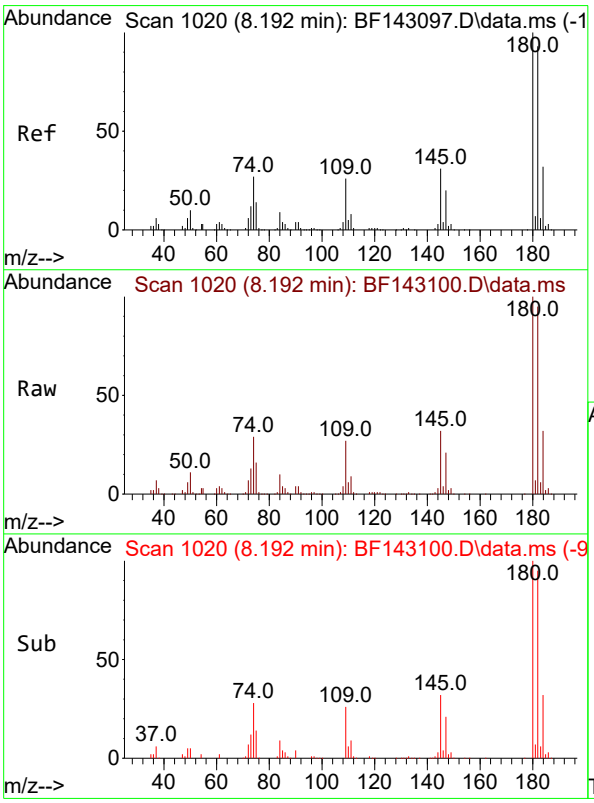
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.1	83.1
98	39.4	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

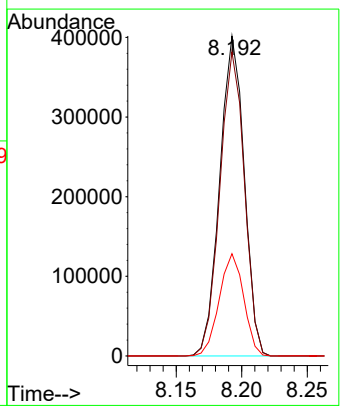
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

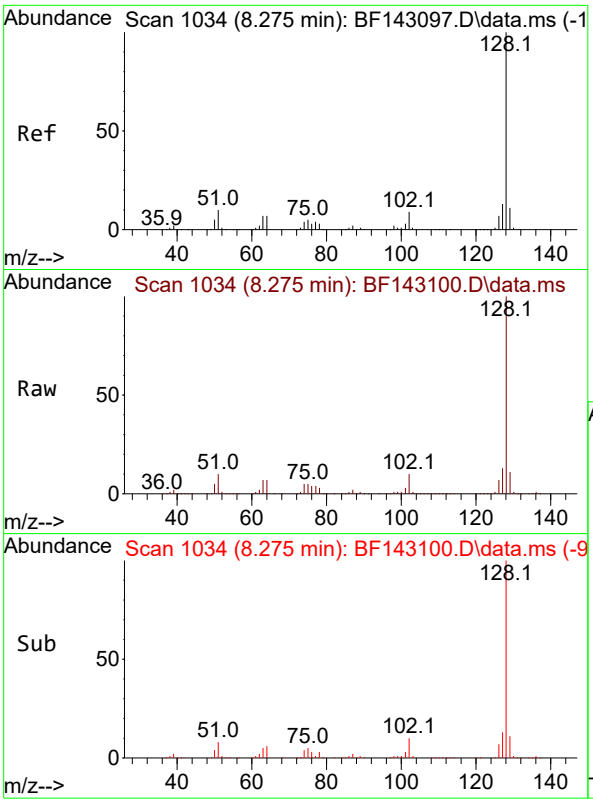


#30
1,2,4-Trichlorobenzene
Concen: 71.974 ng
RT: 8.192 min Scan# 1020
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:180 Resp: 520808

Ion	Ratio	Lower	Upper
180	100		
182	95.0	74.7	112.1
145	32.0	24.5	36.7

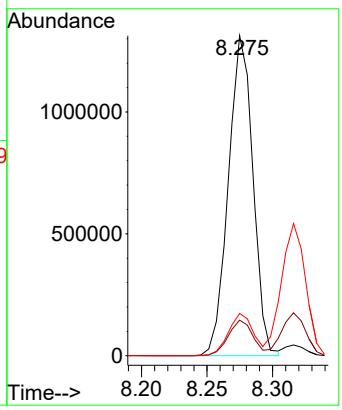




#31
Naphthalene
Concen: 70.704 ng
RT: 8.275 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:128 Resp: 171116

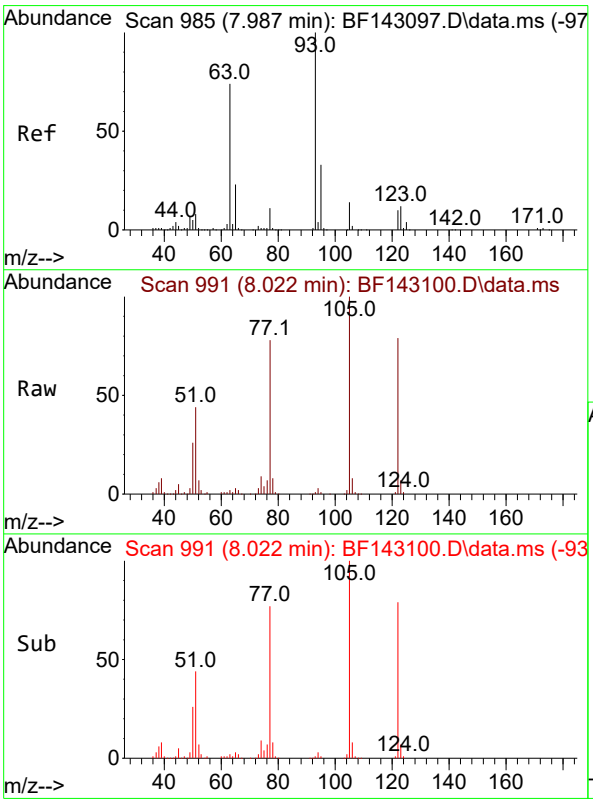
Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.2	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

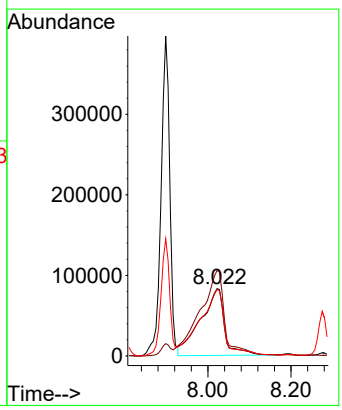
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

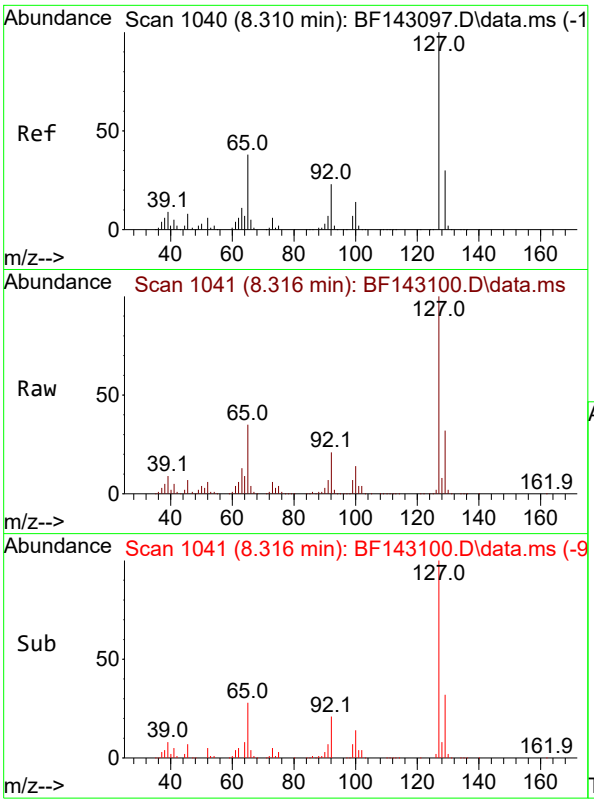


#32
Benzoic acid
Concen: 81.374 ng
RT: 8.022 min Scan# 991
Delta R.T. 0.035 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:122 Resp: 336178

Ion	Ratio	Lower	Upper
122	100		
105	127.0	105.4	145.4
77	98.6	78.6	118.6

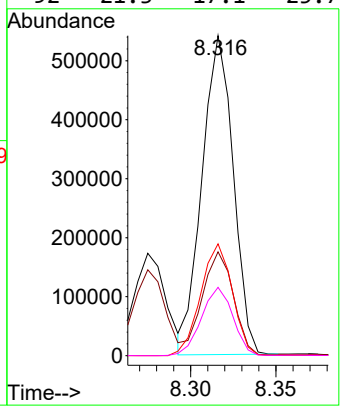




#33
4-Chloroaniline
Concen: 70.795 ng
RT: 8.316 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:127 Resp: 68899

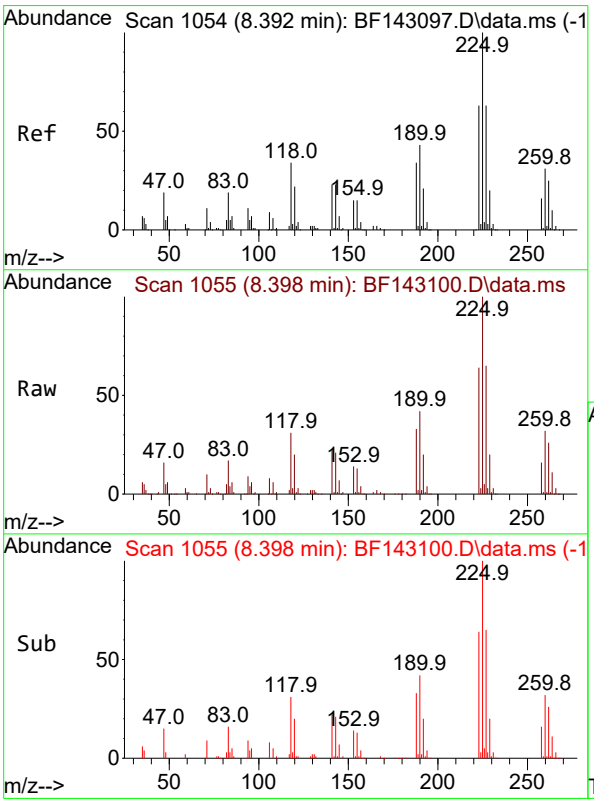
Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.2	39.4
65	35.0	28.6	42.8
92	21.3	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

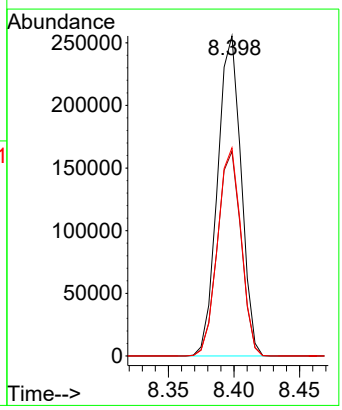
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

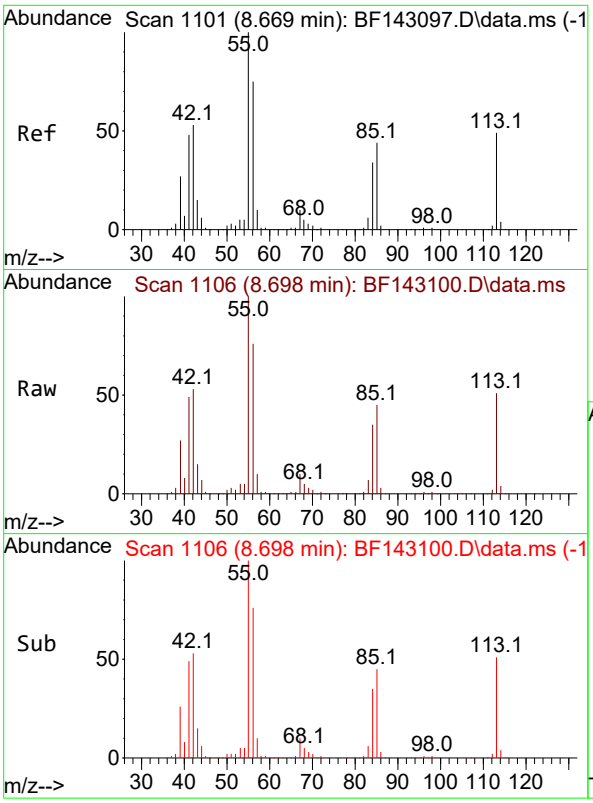


#34
Hexachlorobutadiene
Concen: 73.546 ng
RT: 8.398 min Scan# 1055
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:225 Resp: 318274

Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.3	75.5
227	65.0	50.1	75.1

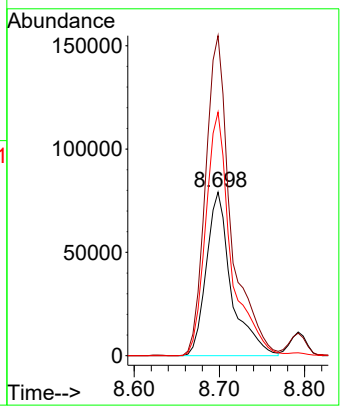




#35
Caprolactam
Concen: 81.097 ng
RT: 8.698 min Scan# 1
Delta R.T. 0.030 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:113 Resp: 16146

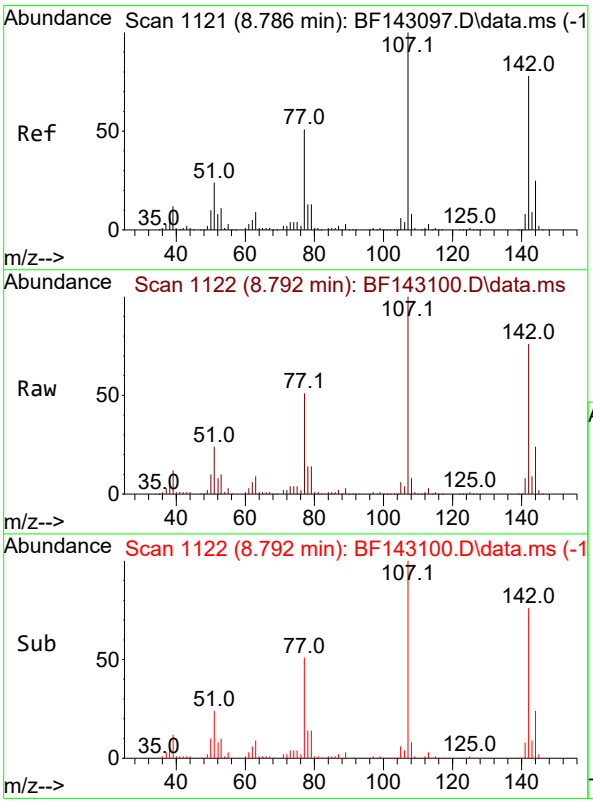
Ion	Ratio	Lower	Upper
113	100		
55	195.6	186.2	226.2
56	148.8	134.1	174.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

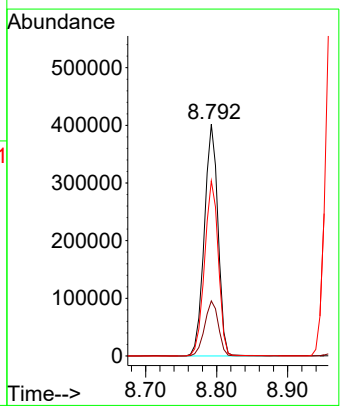
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

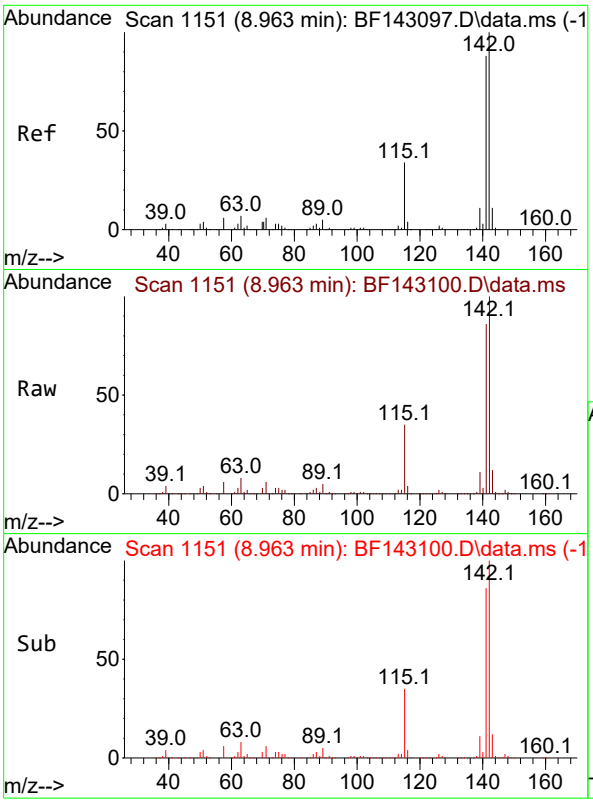


#36
4-Chloro-3-methylphenol
Concen: 75.937 ng
RT: 8.792 min Scan# 1122
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:107 Resp: 539340

Ion	Ratio	Lower	Upper
107	100		
144	23.8	20.2	30.2
142	75.5	62.4	93.6





#37
2-Methylnaphthalene
Concen: 70.738 ng
RT: 8.963 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

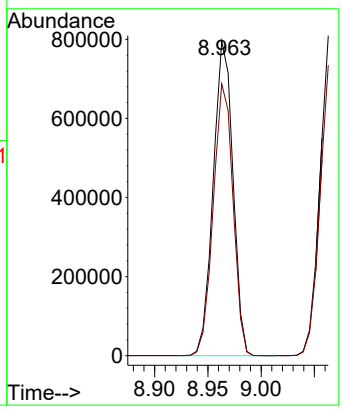
Tgt Ion:142 Resp: 102131

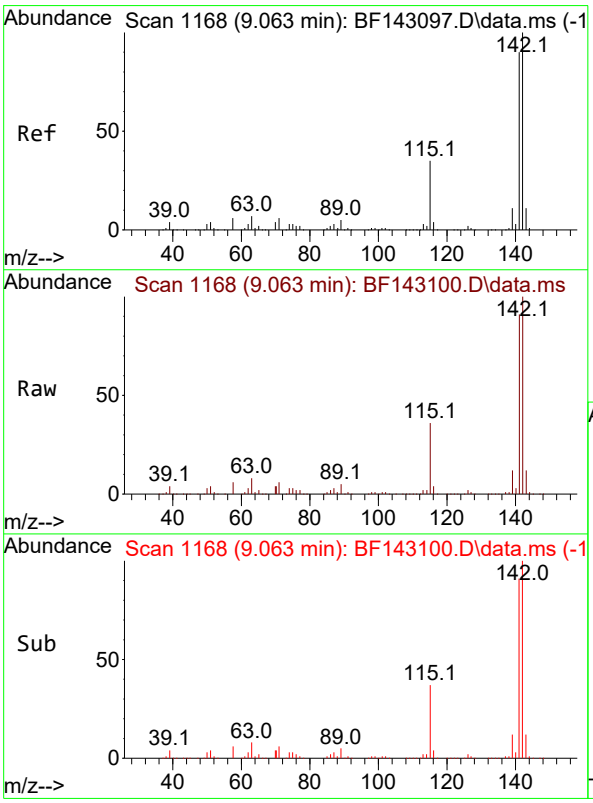
Ion	Ratio	Lower	Upper
142	100		
141	86.4	70.2	105.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

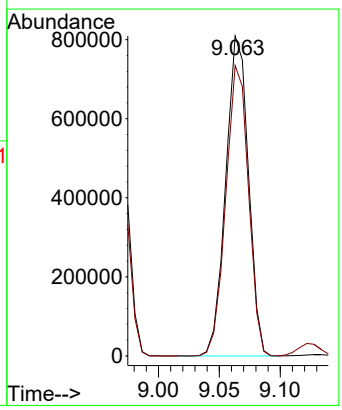


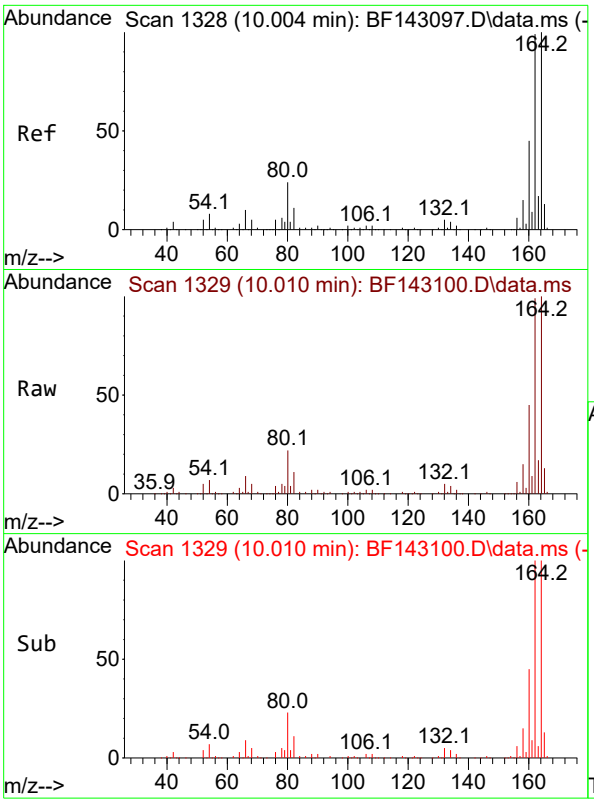


#38
1-Methylnaphthalene
Concen: 69.955 ng
RT: 9.063 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:142 Resp: 1047560

Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.2	108.4

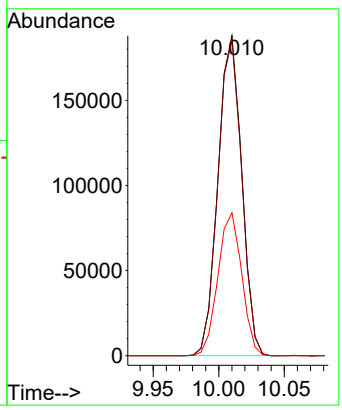




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.010 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:164 Resp: 23626

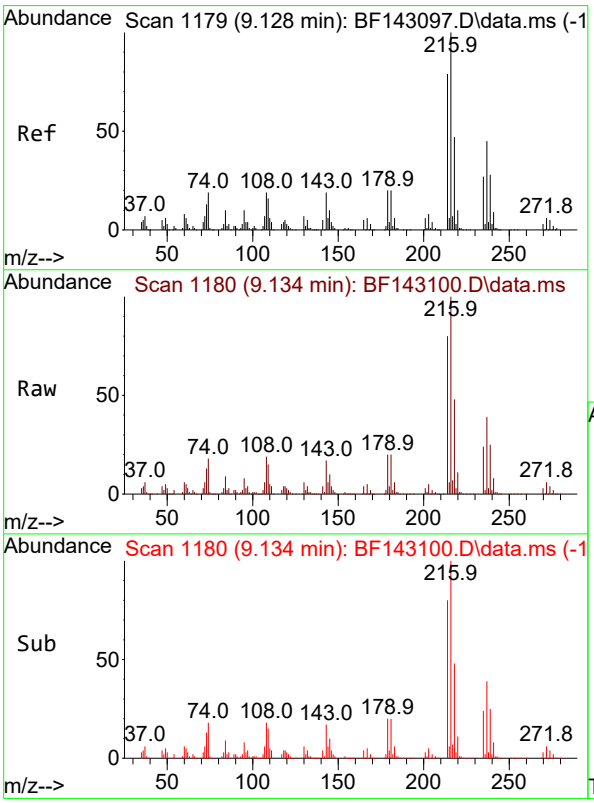
Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.0	118.6
160	44.7	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

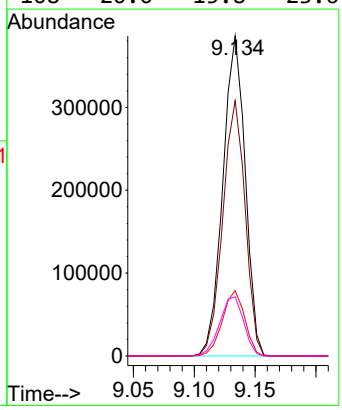
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

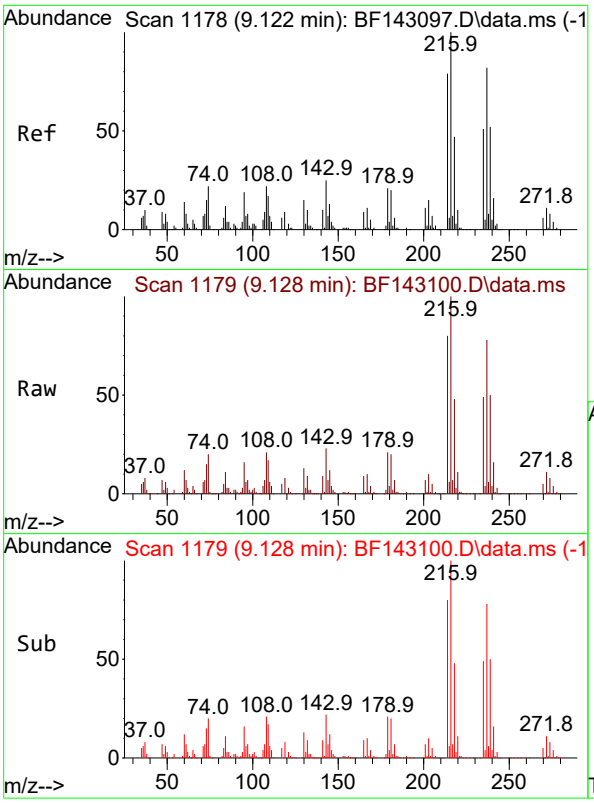


#40
1,2,4,5-Tetrachlorobenzene
Concen: 71.639 ng
RT: 9.134 min Scan# 1180
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:216 Resp: 493246

Ion	Ratio	Lower	Upper
216	100		
214	79.8	62.6	94.0
179	20.5	16.2	24.2
108	20.0	15.8	23.6





#41
Hexachlorocyclopentadiene
Concen: 85.103 ng
RT: 9.128 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

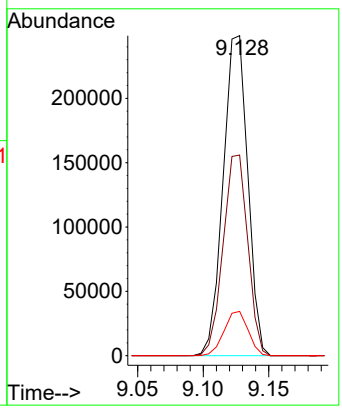
Tgt Ion:237 Resp: 32486

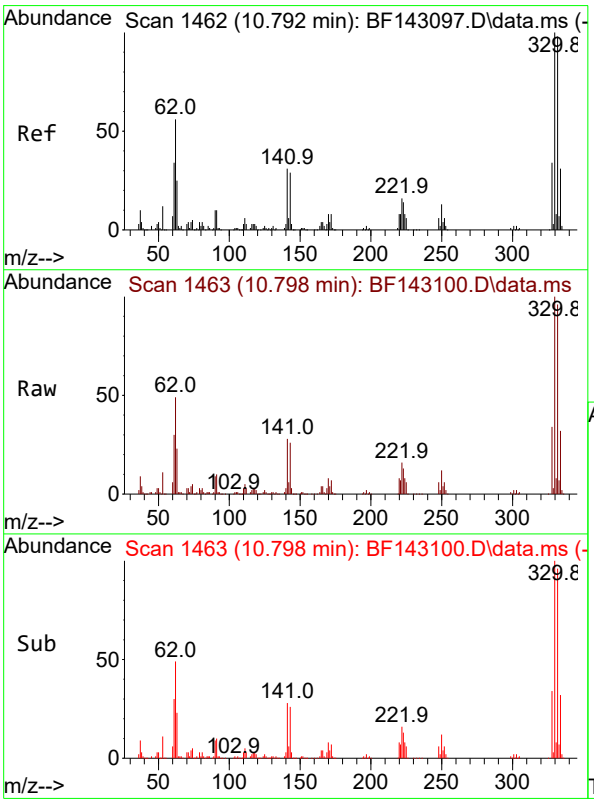
Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.6	81.6
272	13.8	0.0	32.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

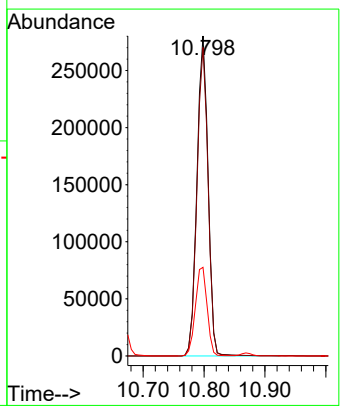


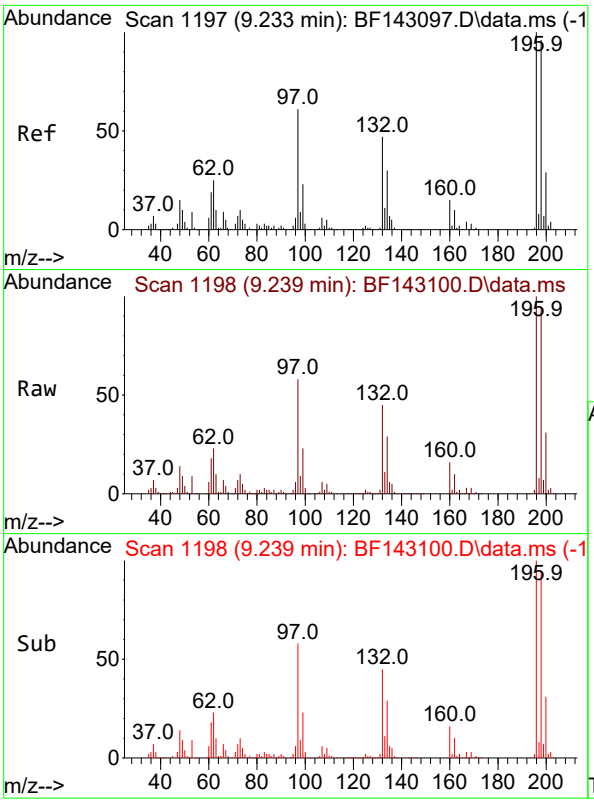


#42
2,4,6-Tribromophenol
Concen: 168.911 ng
RT: 10.798 min Scan# 1463
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:330 Resp: 355830

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.9	116.9
141	29.2	25.9	38.9

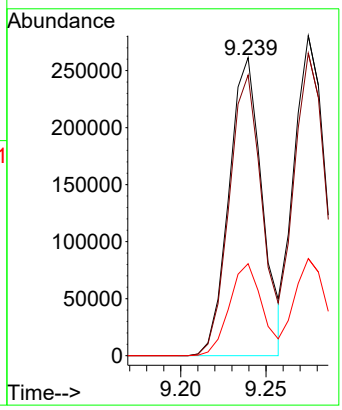




#43
2,4,6-Trichlorophenol
Concen: 83.176 ng
RT: 9.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:196 Resp: 35583

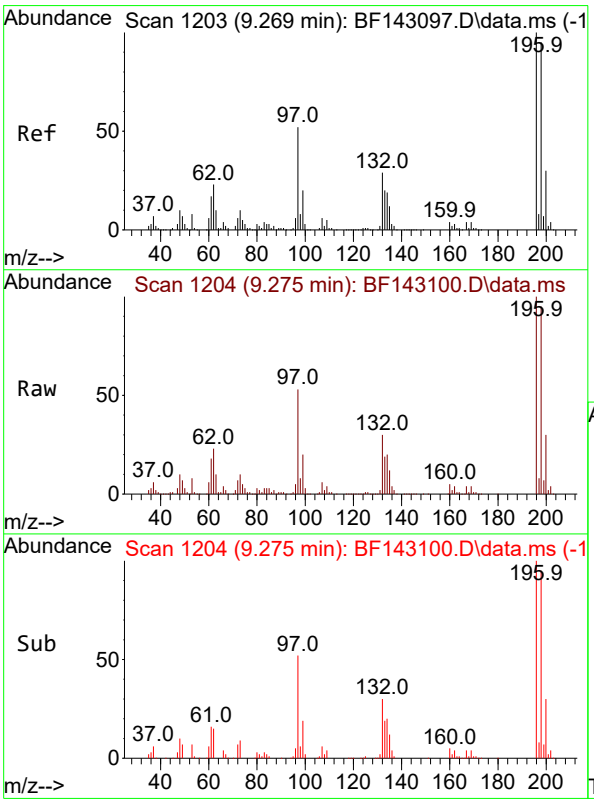
Ion	Ratio	Lower	Upper
196	100		
198	94.1	76.9	115.3
200	30.9	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

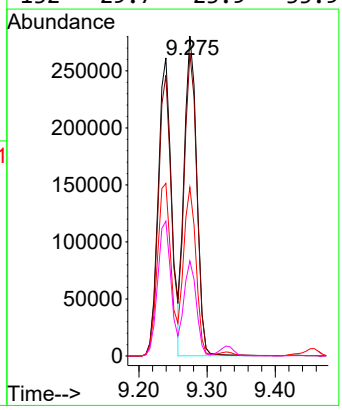
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

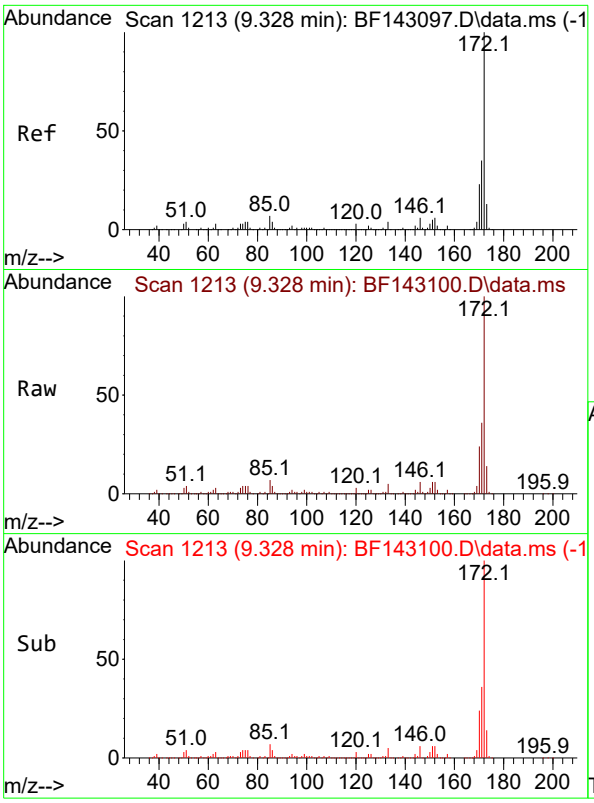


#44
2,4,5-Trichlorophenol
Concen: 79.651 ng
RT: 9.275 min Scan# 1204
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:196 Resp: 357298

Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.4	114.6
97	52.7	42.4	63.6
132	29.7	23.9	35.9

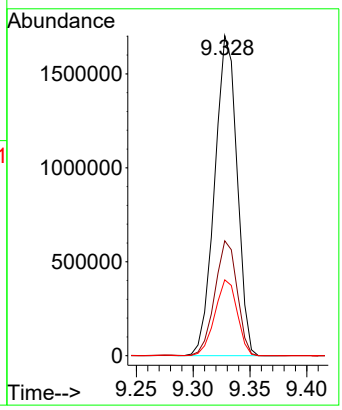




#45
2-Fluorobiphenyl
Concen: 131.609 ng
RT: 9.328 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:172 Resp: 233915

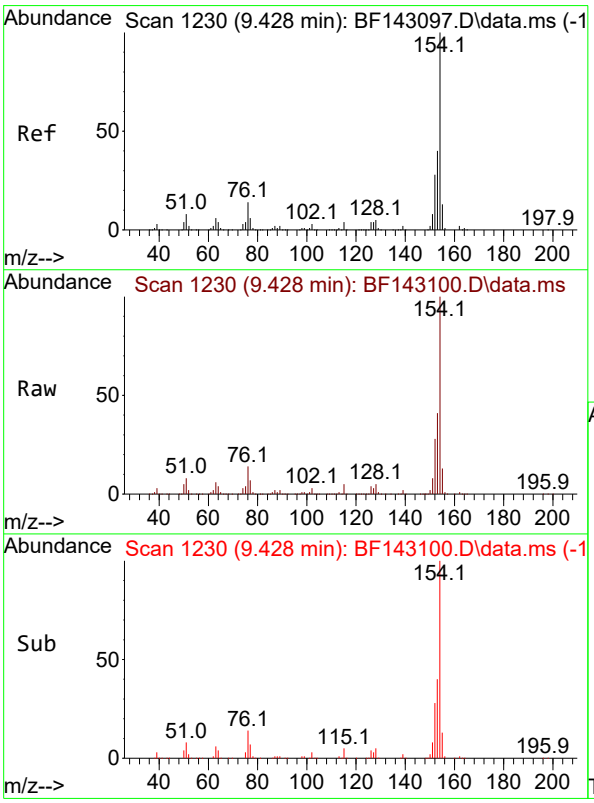
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.2	42.4
170	23.7	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

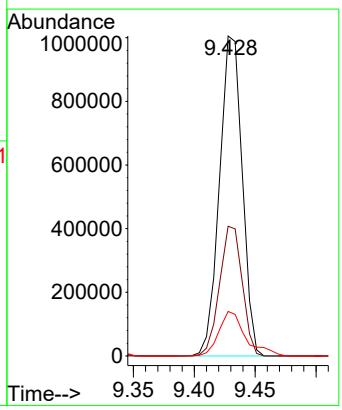
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

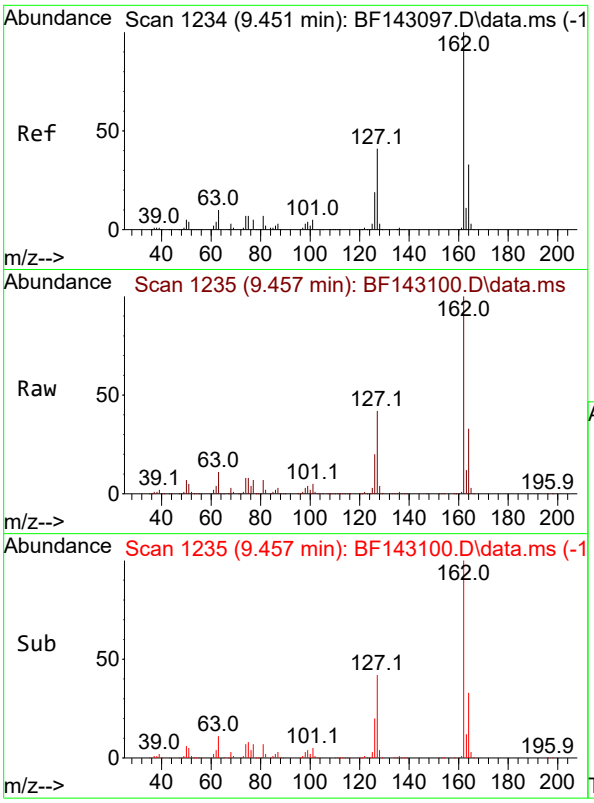


#46
1,1'-Biphenyl
Concen: 69.419 ng
RT: 9.428 min Scan# 1230
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:154 Resp: 1307947

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.1	60.1
76	13.9	0.0	33.7

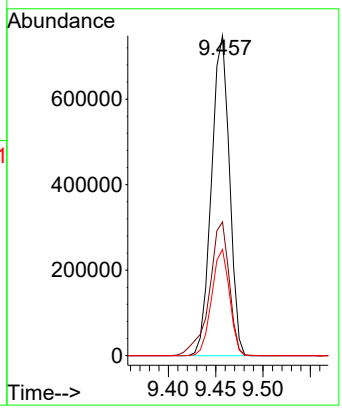




#47
2-Chloronaphthalene
Concen: 71.557 ng
RT: 9.457 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:162 Resp: 99043

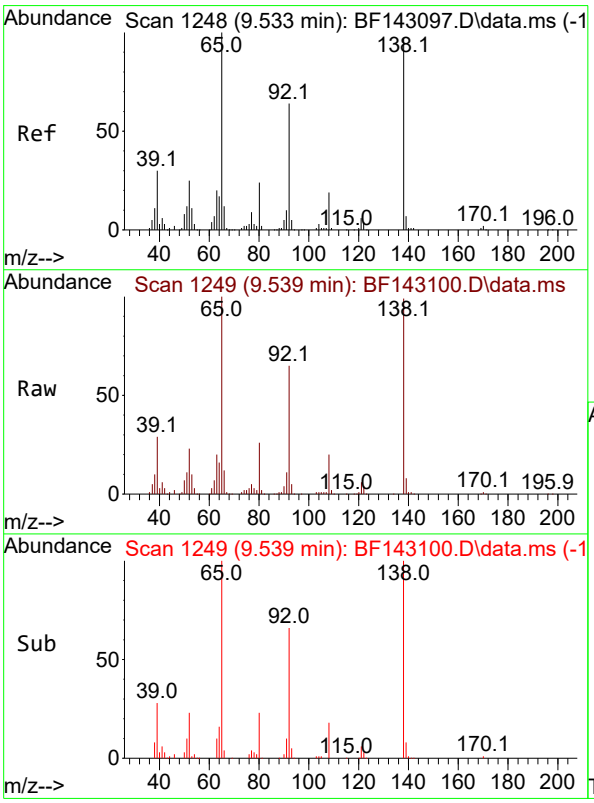
Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.0	49.6
164	33.2	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

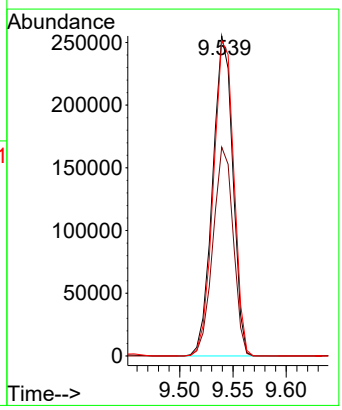
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

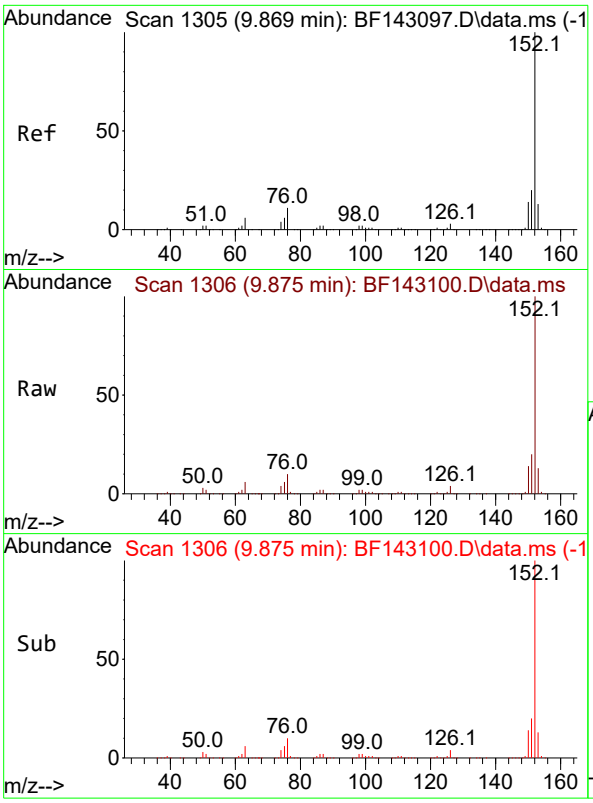


#48
2-Nitroaniline
Concen: 79.074 ng
RT: 9.539 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion: 65 Resp: 335875

Ion	Ratio	Lower	Upper
65	100		
92	65.2	51.3	76.9
138	98.6	77.8	116.6

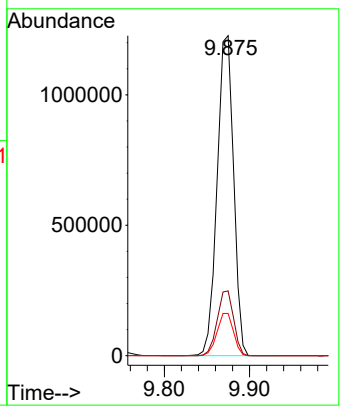




#49
Acenaphthylene
Concen: 71.544 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:152 Resp: 165097

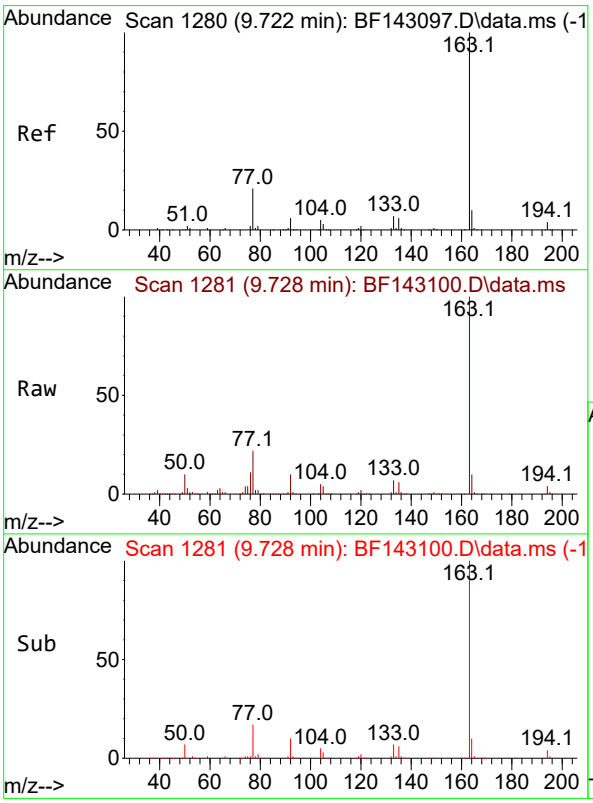
Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.2	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

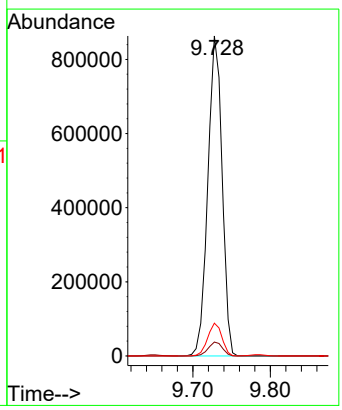
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

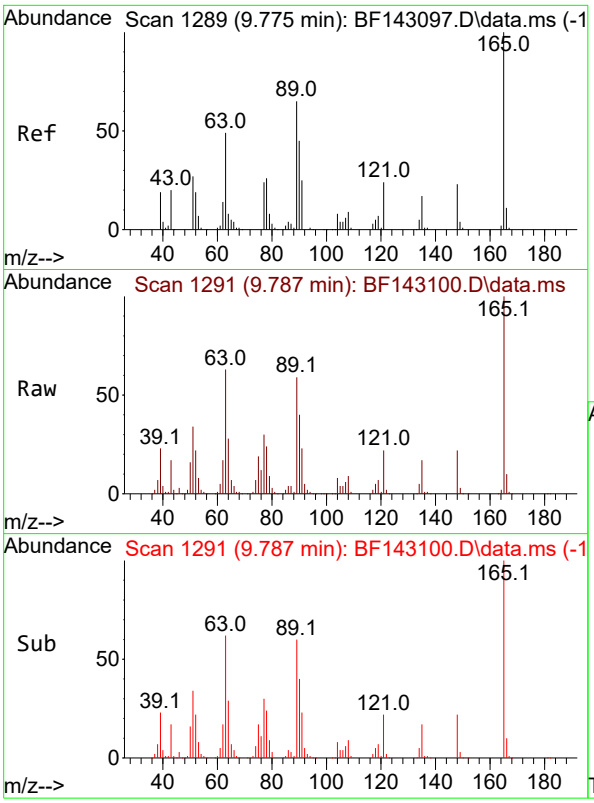


#50
Dimethylphthalate
Concen: 74.327 ng
RT: 9.728 min Scan# 1281
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:163 Resp: 1104756

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.3	8.2	12.2

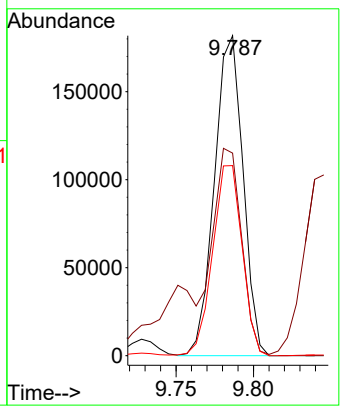




#51
2,6-Dinitrotoluene
Concen: 77.660 ng
RT: 9.787 min Scan# 1
Delta R.T. 0.011 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:165 Resp: 23347

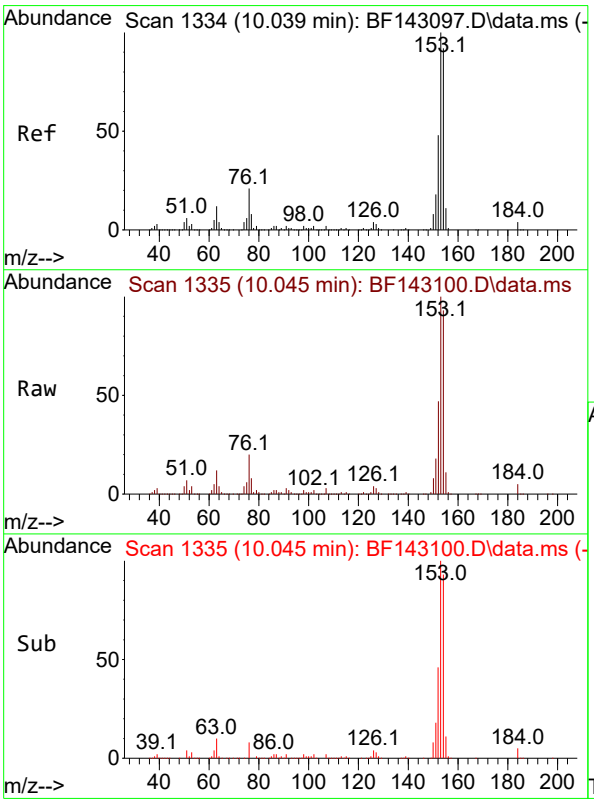
Ion	Ratio	Lower	Upper
165	100		
63	63.3	57.4	86.0
89	59.4	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

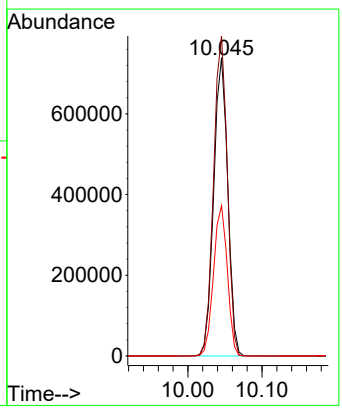
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

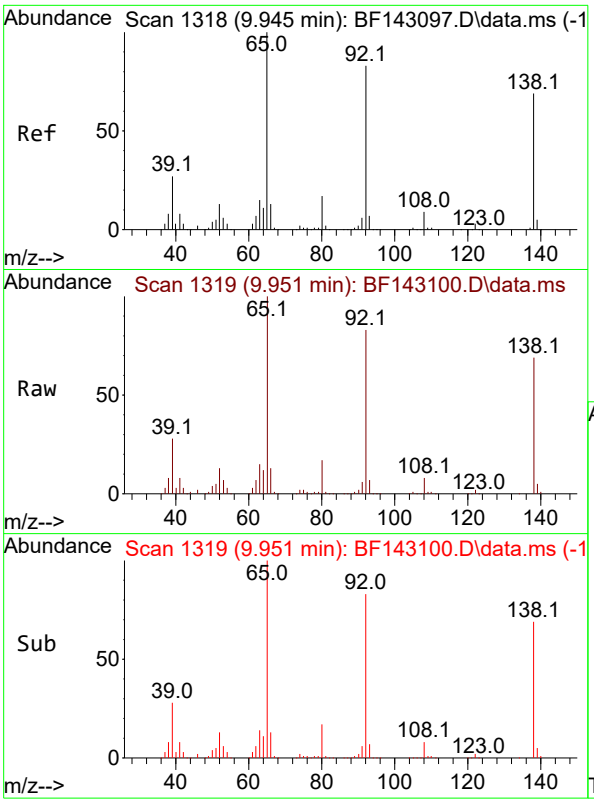


#52
Acenaphthene
Concen: 71.657 ng
RT: 10.045 min Scan# 1335
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:154 Resp: 975285

Ion	Ratio	Lower	Upper
154	100		
153	107.3	86.7	130.1
152	50.5	41.4	62.2

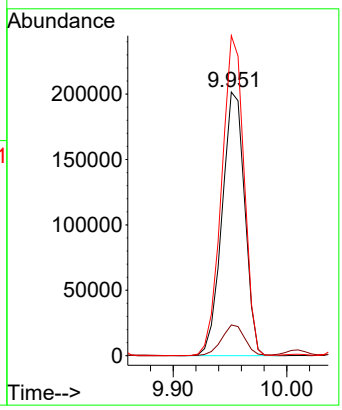




#53
3-Nitroaniline
Concen: 86.920 ng
RT: 9.951 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:138 Resp: 27916

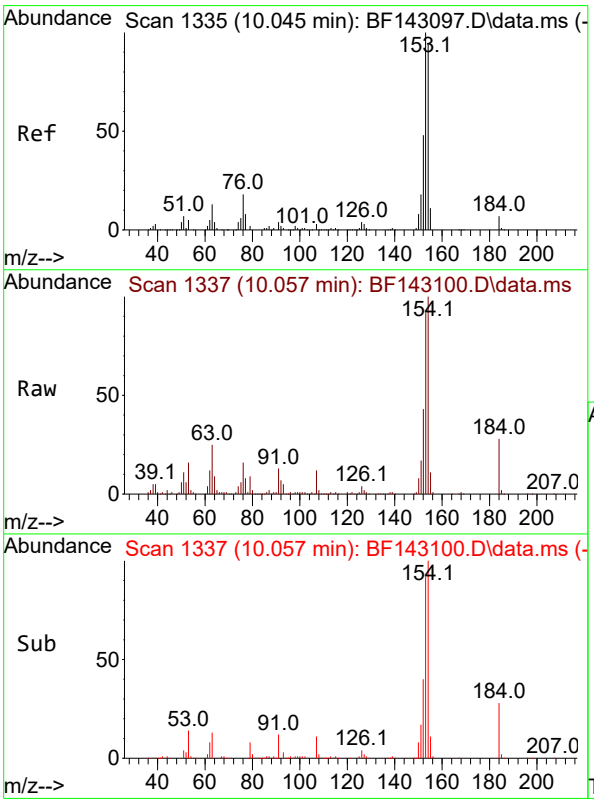
Ion	Ratio	Lower	Upper
138	100		
108	11.6	10.1	15.1
92	121.4	96.4	144.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

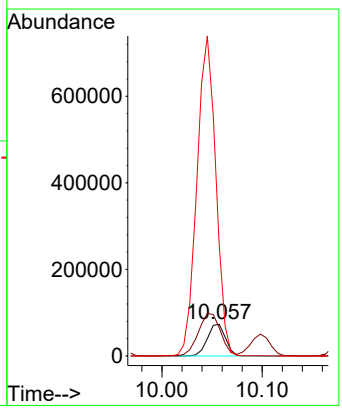
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

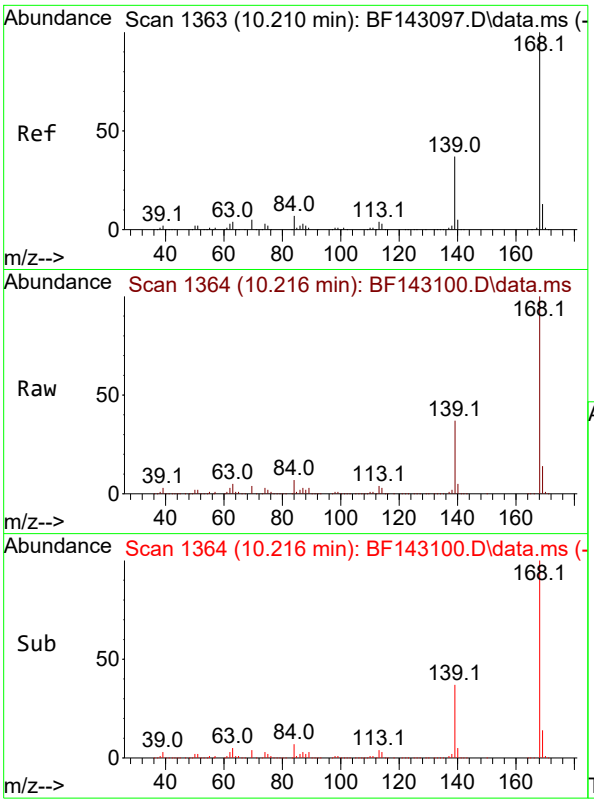


#54
2,4-Dinitrophenol
Concen: 79.064 ng
RT: 10.057 min Scan# 1337
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:184 Resp: 91751

Ion	Ratio	Lower	Upper
184	100		
63	89.3	149.3	223.9#
154	352.7	1048.0	1572.0#

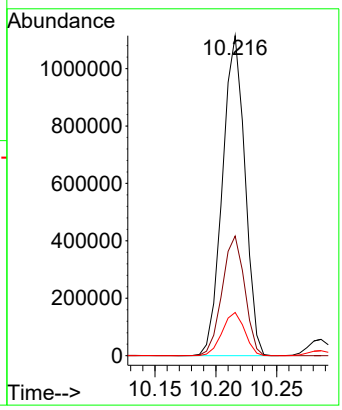




#55
Dibenzofuran
Concen: 70.610 ng
RT: 10.216 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:168 Resp: 143245

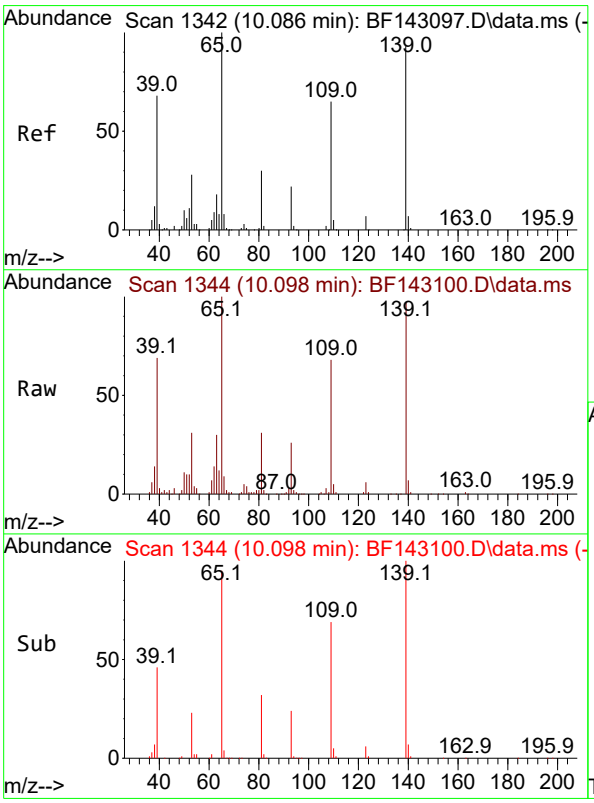
Ion	Ratio	Lower	Upper
168	100		
139	37.4	29.8	44.6
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

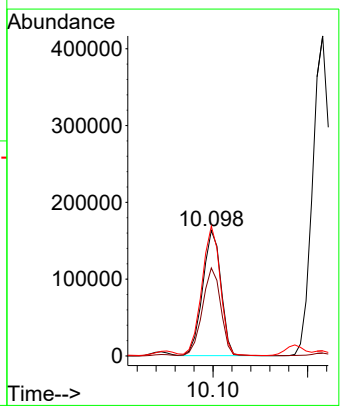
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

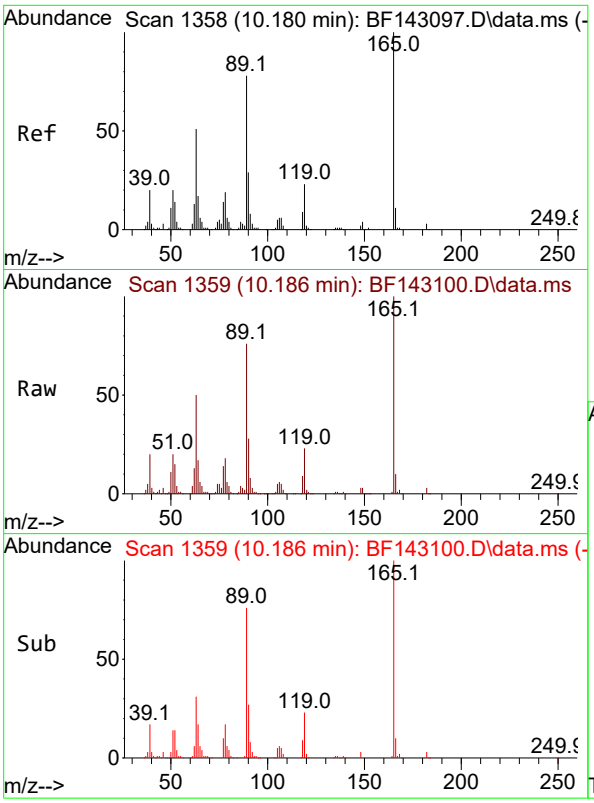


#56
4-Nitrophenol
Concen: 85.886 ng
RT: 10.098 min Scan# 1344
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:139 Resp: 219224

Ion	Ratio	Lower	Upper
139	100		
109	70.2	49.4	89.4
65	103.6	88.2	128.2

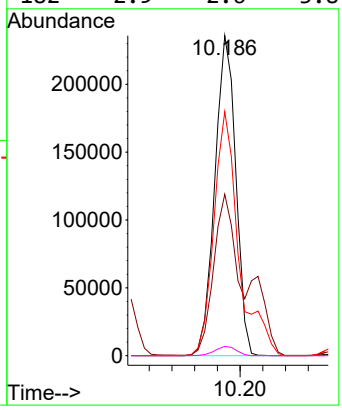




#57
2,4-Dinitrotoluene
Concen: 80.048 ng
RT: 10.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:165 Resp: 30255

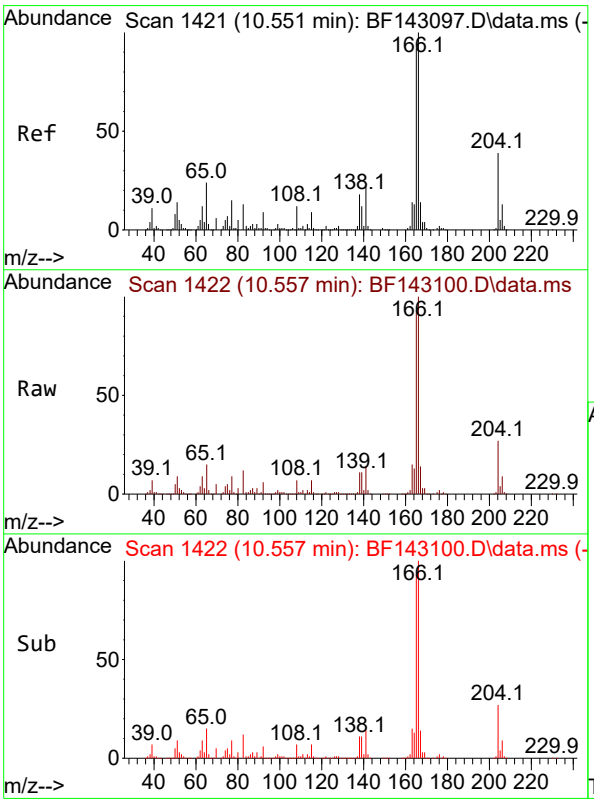
Ion	Ratio	Lower	Upper
165	100		
63	50.4	40.6	61.0
89	76.3	62.3	93.5
182	2.9	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

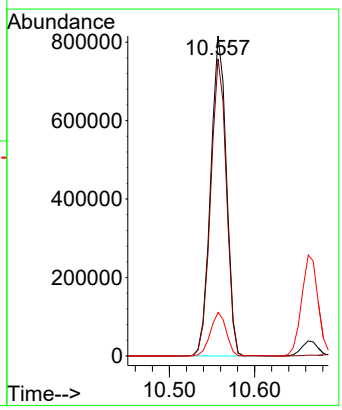
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

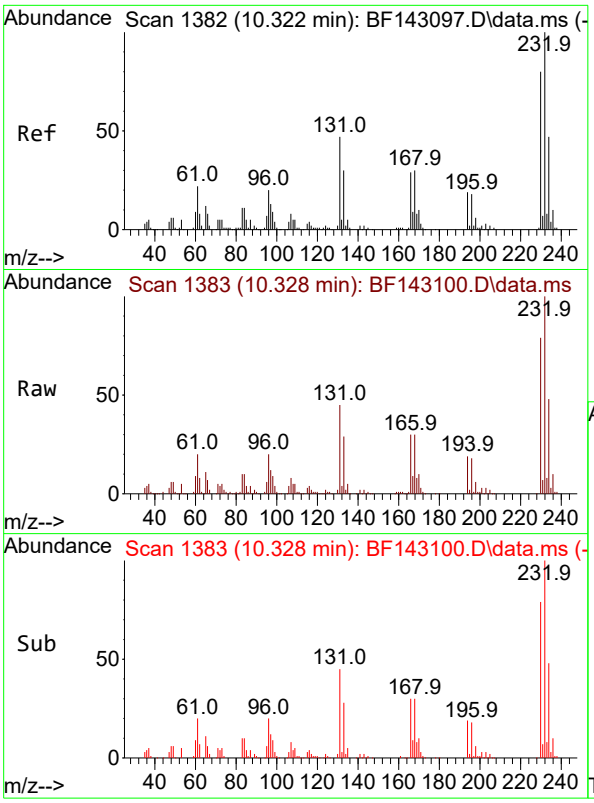


#58
Fluorene
Concen: 68.640 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:166 Resp: 1043990

Ion	Ratio	Lower	Upper
166	100		
165	92.9	73.7	110.5
167	13.6	10.9	16.3

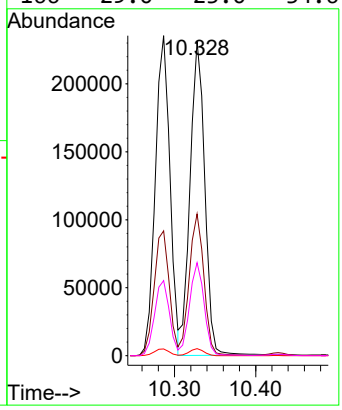




#59
2,3,4,6-Tetrachlorophenol
Concen: 81.893 ng
RT: 10.328 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:232 Resp: 29193

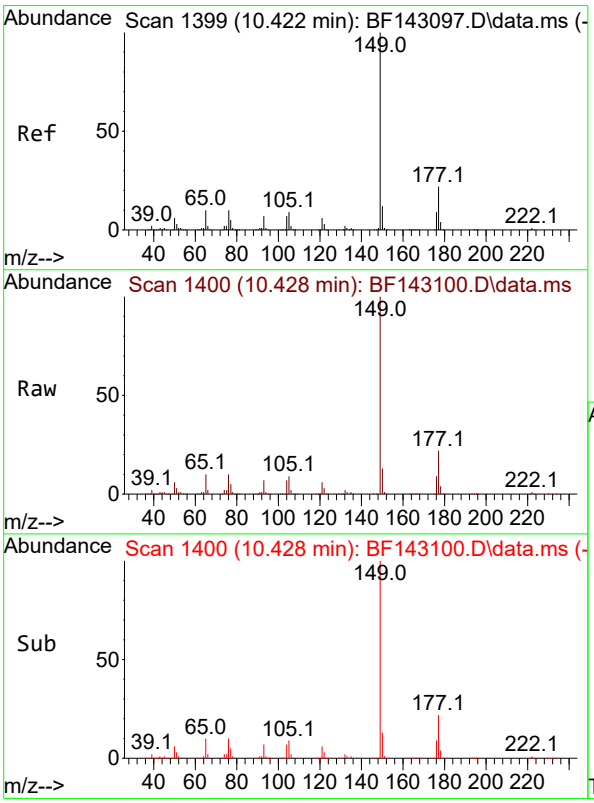
Ion	Ratio	Lower	Upper
232	100		
131	44.7	36.9	55.3
130	2.2	1.8	2.8
166	29.0	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

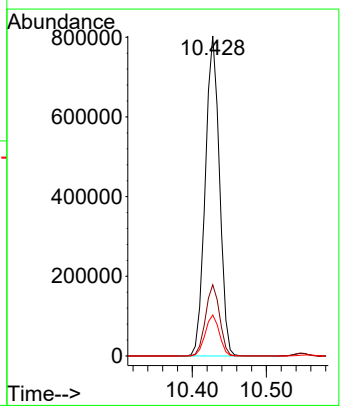
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

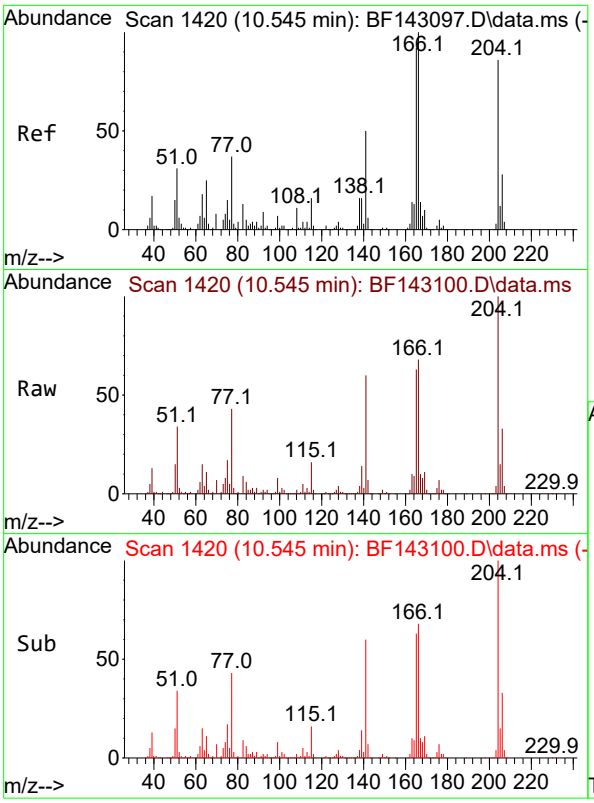


#60
Diethylphthalate
Concen: 74.464 ng
RT: 10.428 min Scan# 1400
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:149 Resp: 1067815

Ion	Ratio	Lower	Upper
149	100		
177	22.2	17.3	25.9
150	12.8	9.9	14.9

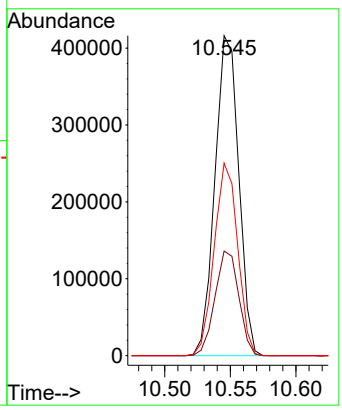




#61
4-Chlorophenyl-phenylether
Concen: 72.005 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:204 Resp: 52491

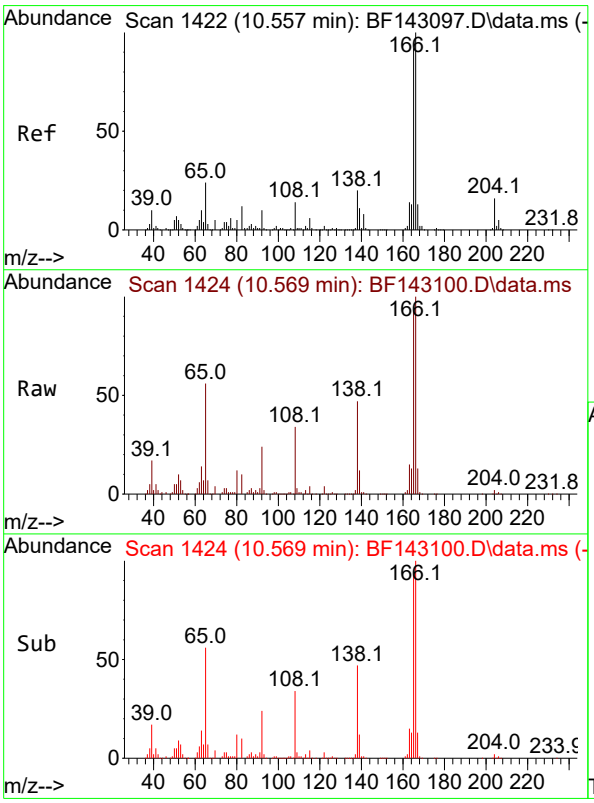
Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	60.2	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

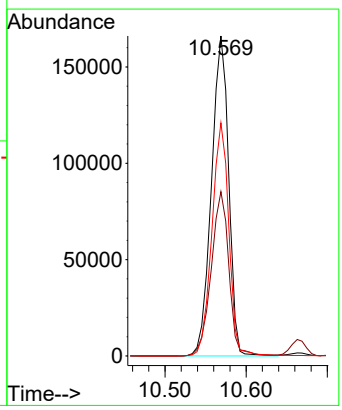
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

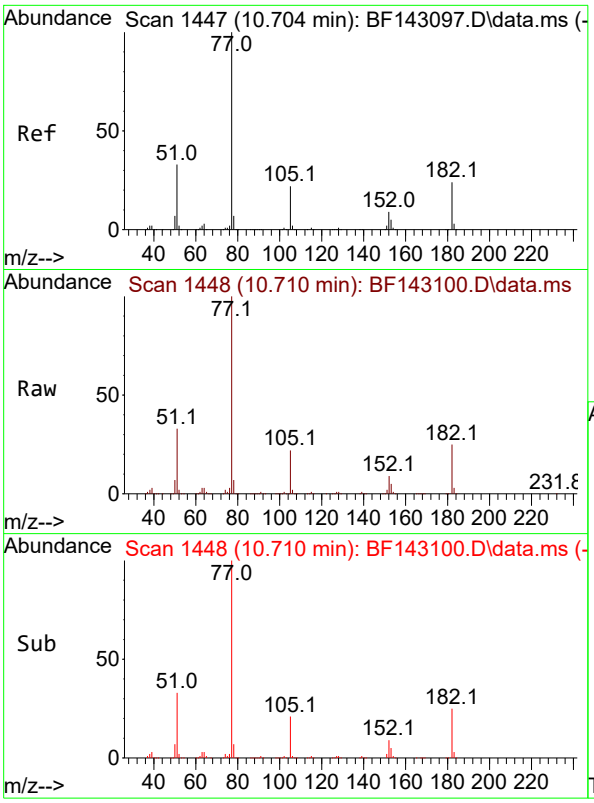


#62
4-Nitroaniline
Concen: 87.527 ng
RT: 10.569 min Scan# 1424
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:138 Resp: 244461

Ion	Ratio	Lower	Upper
138	100		
92	51.4	30.4	70.4
108	72.9	49.5	89.5





#63
Azobenzene
Concen: 71.985 ng
RT: 10.710 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

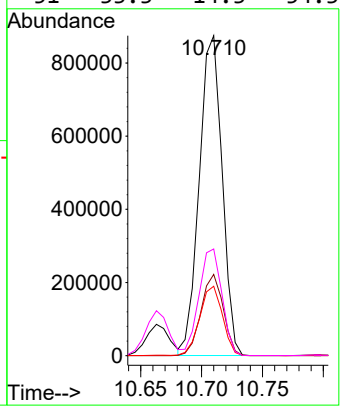
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

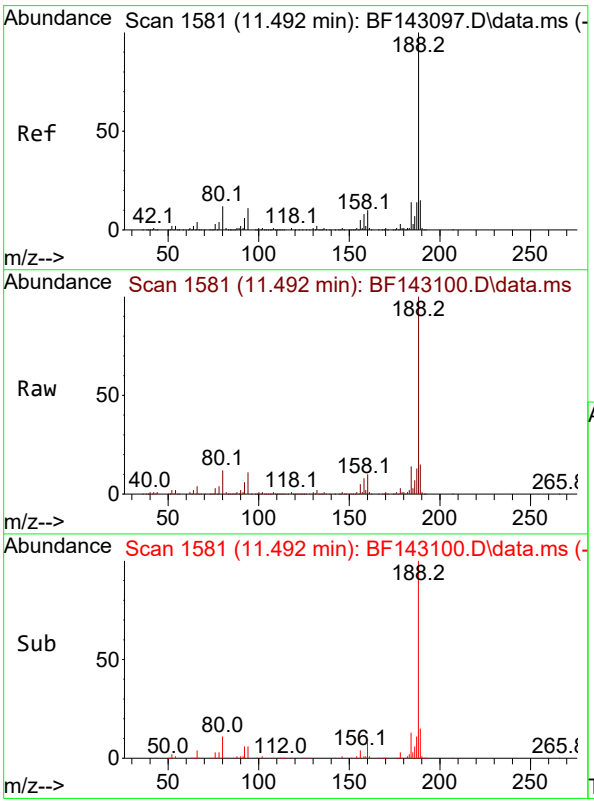
Tgt Ion: 77 Resp: 114161

Ion	Ratio	Lower	Upper
77	100		
182	25.4	4.0	44.0
105	21.7	1.4	41.4
51	33.3	14.3	54.3

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

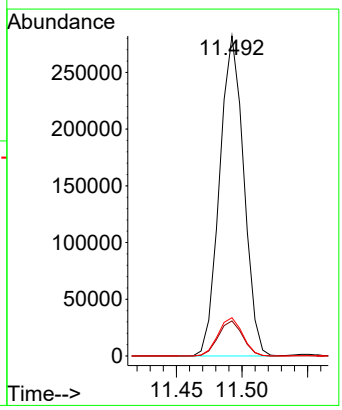


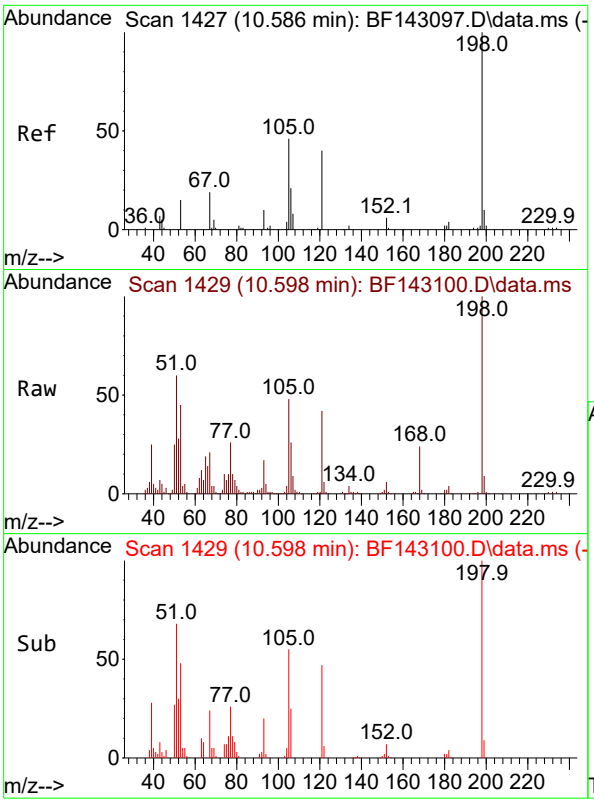


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:188 Resp: 362117

Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.6	13.0
80	12.0	9.3	13.9

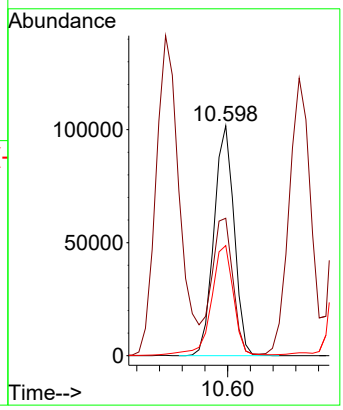




#65
4,6-Dinitro-2-methylphenol
Concen: 78.600 ng
RT: 10.598 min Scan# 14
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:198 Resp: 12525

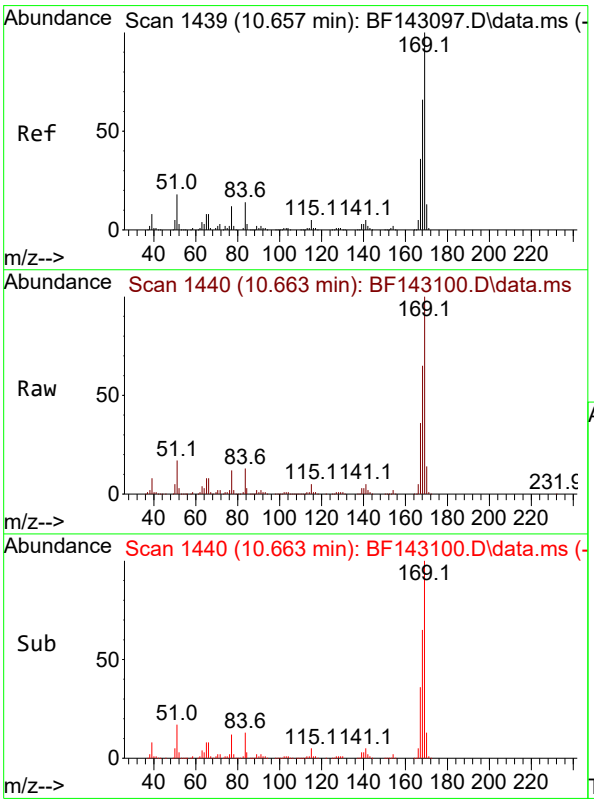
Ion	Ratio	Lower	Upper
198	100		
51	59.8	44.6	84.6
105	47.9	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

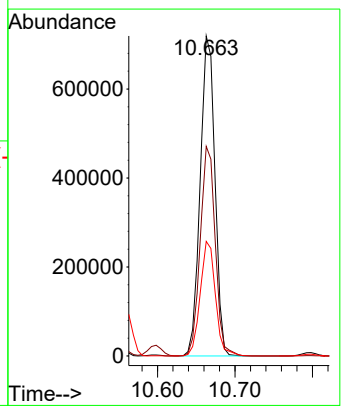
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

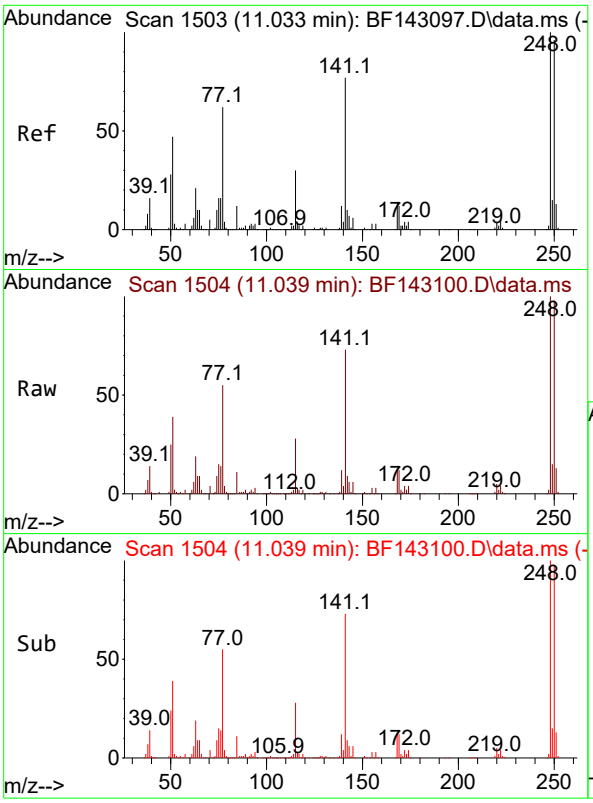


#66
n-Nitrosodiphenylamine
Concen: 74.520 ng
RT: 10.663 min Scan# 1440
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:169 Resp: 947890

Ion	Ratio	Lower	Upper
169	100		
168	65.5	53.0	79.6
167	35.8	28.4	42.6

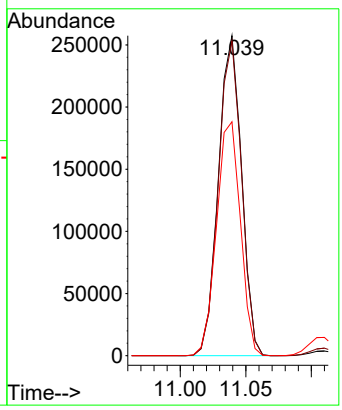




#67
4-Bromophenyl-phenylether
Concen: 76.885 ng
RT: 11.039 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:248 Resp: 31661

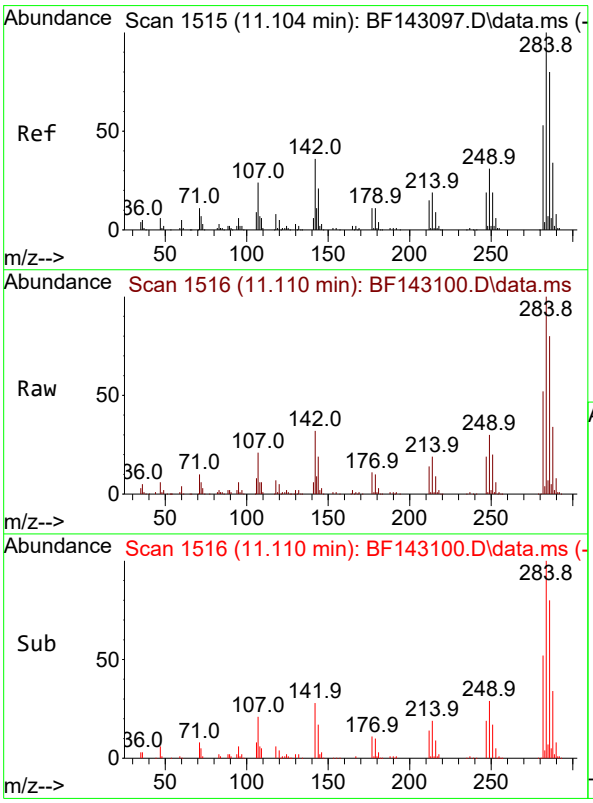
Ion	Ratio	Lower	Upper
248	100		
250	98.3	76.7	115.1
141	73.1	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

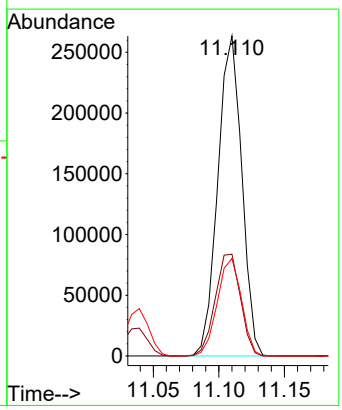
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

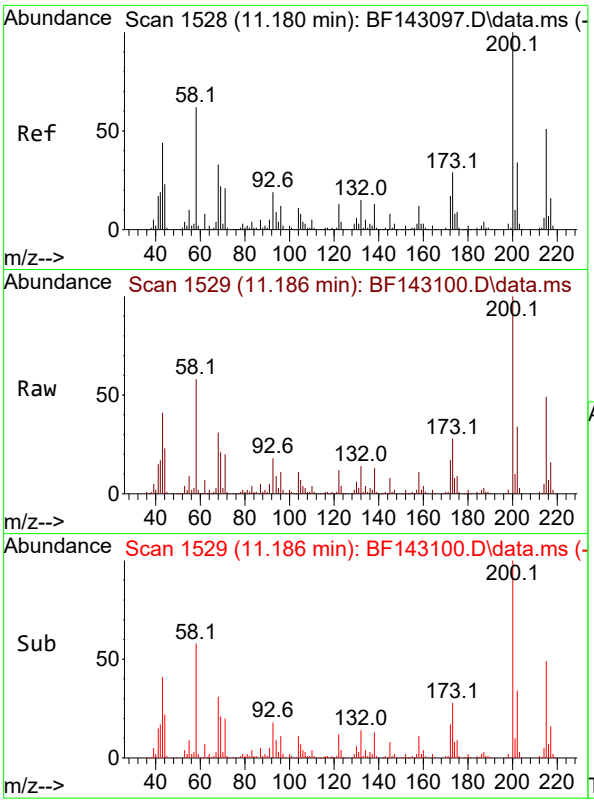


#68
Hexachlorobenzene
Concen: 76.417 ng
RT: 11.110 min Scan# 1516
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:284 Resp: 333899

Ion	Ratio	Lower	Upper
284	100		
142	31.8	28.9	43.3
249	30.5	24.6	37.0

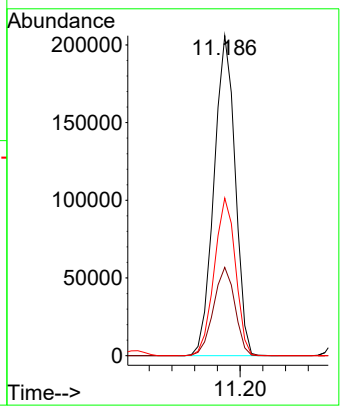




#69
Atrazine
Concen: 81.943 ng
RT: 11.186 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:200 Resp: 26666

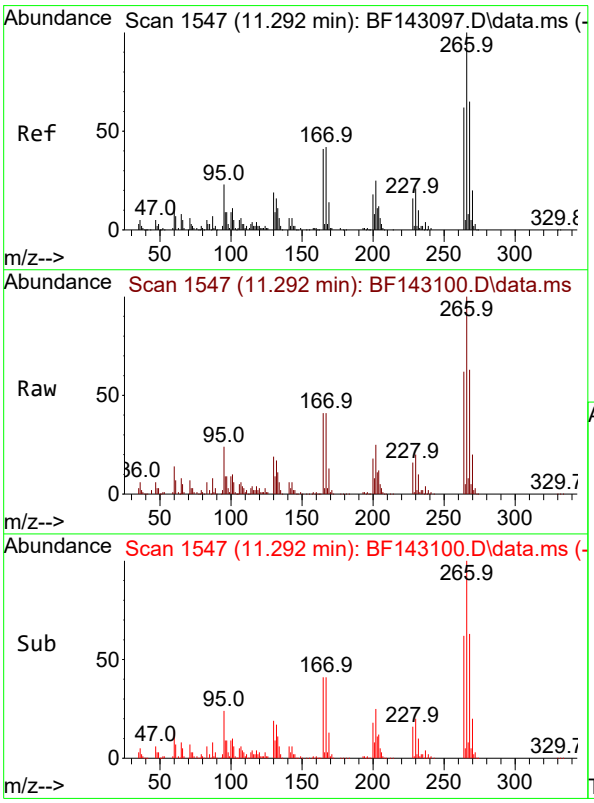
Ion	Ratio	Lower	Upper
200	100		
173	27.6	9.1	49.1
215	49.2	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

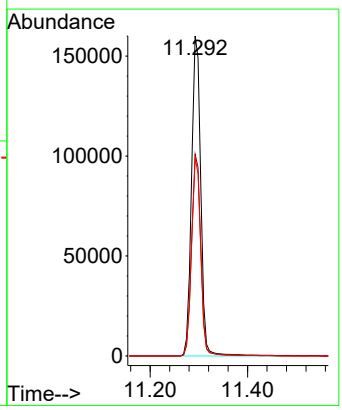
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

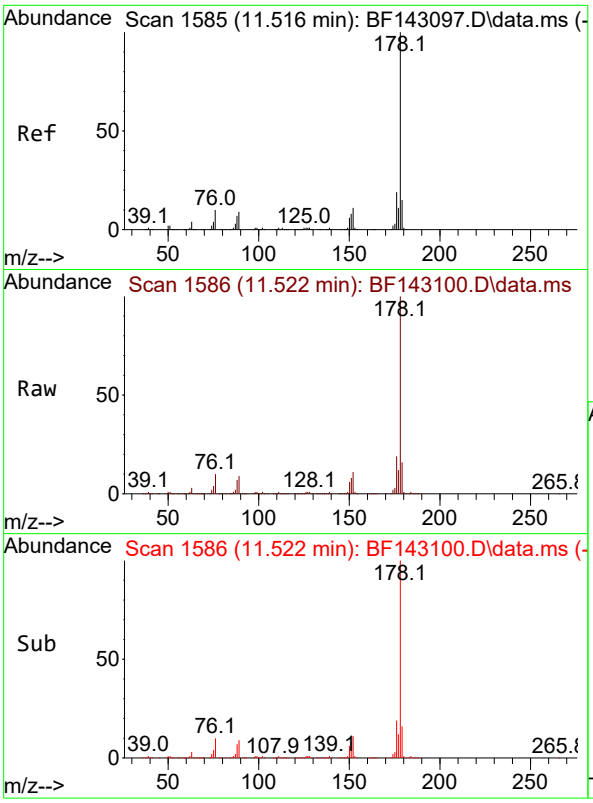


#70
Pentachlorophenol
Concen: 87.905 ng
RT: 11.292 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:266 Resp: 210729

Ion	Ratio	Lower	Upper
266	100		
268	63.0	51.8	77.6
264	61.8	49.7	74.5

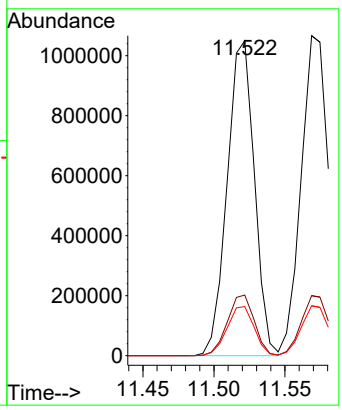




#71
Phenanthrene
Concen: 71.714 ng
RT: 11.522 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:178 Resp: 140150

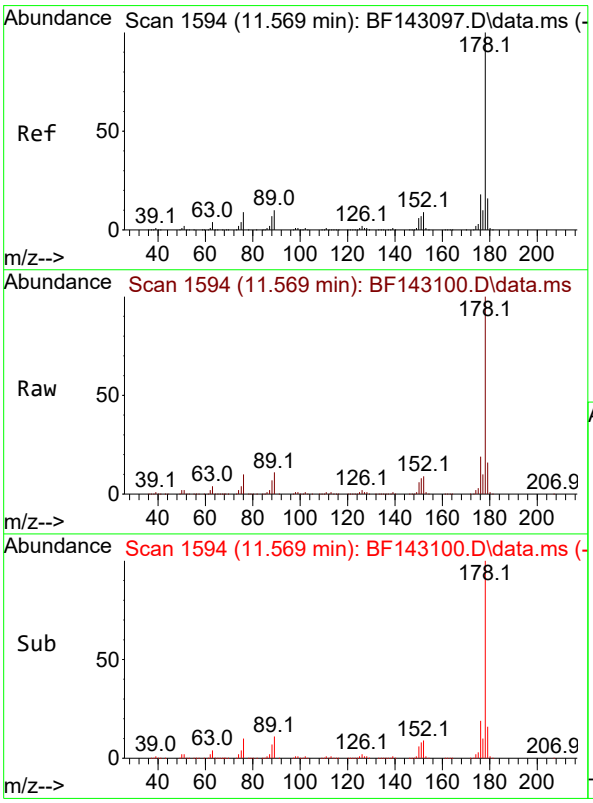
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.1	22.7
179	15.6	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

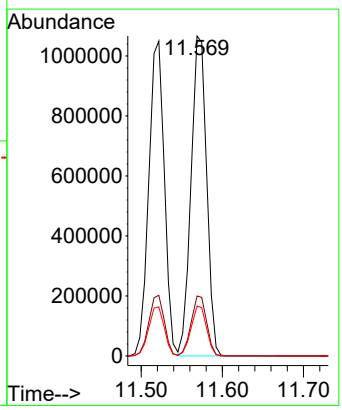
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

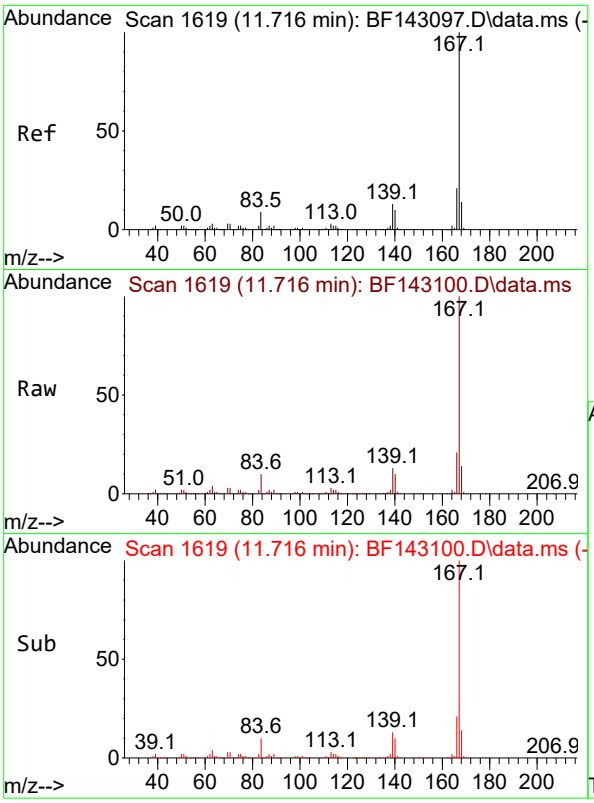


#72
Anthracene
Concen: 72.421 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:178 Resp: 1423259

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.6	12.4	18.6

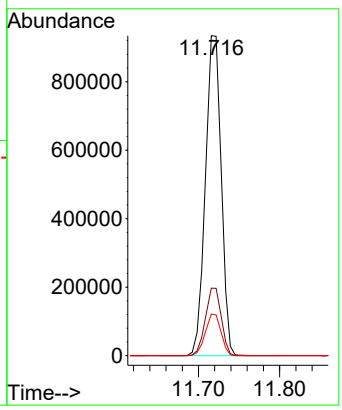




#73
Carbazole
Concen: 71.796 ng
RT: 11.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:167 Resp: 126405

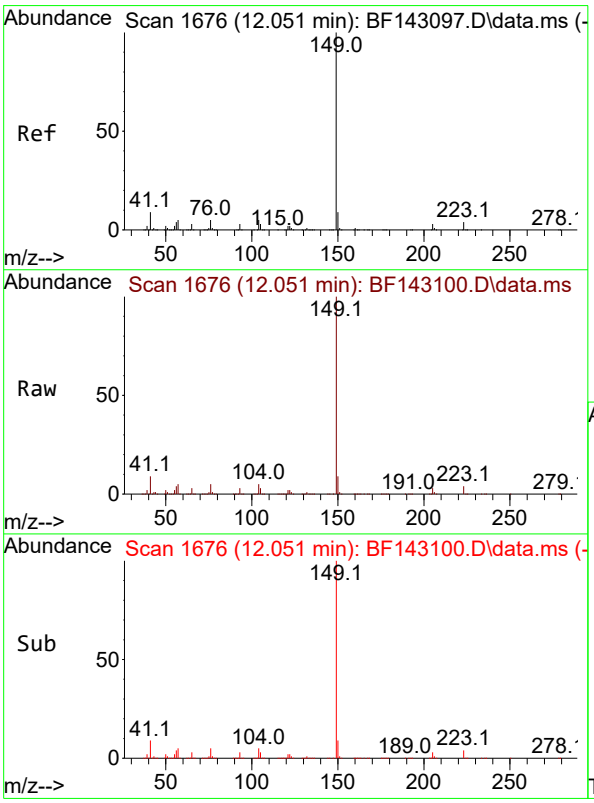
Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.0	25.4
139	13.0	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

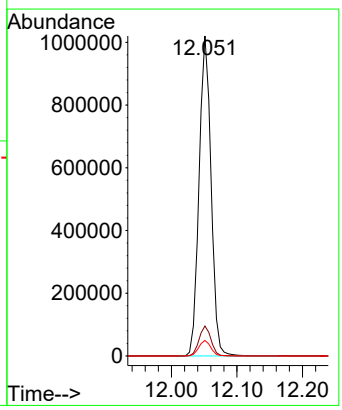
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

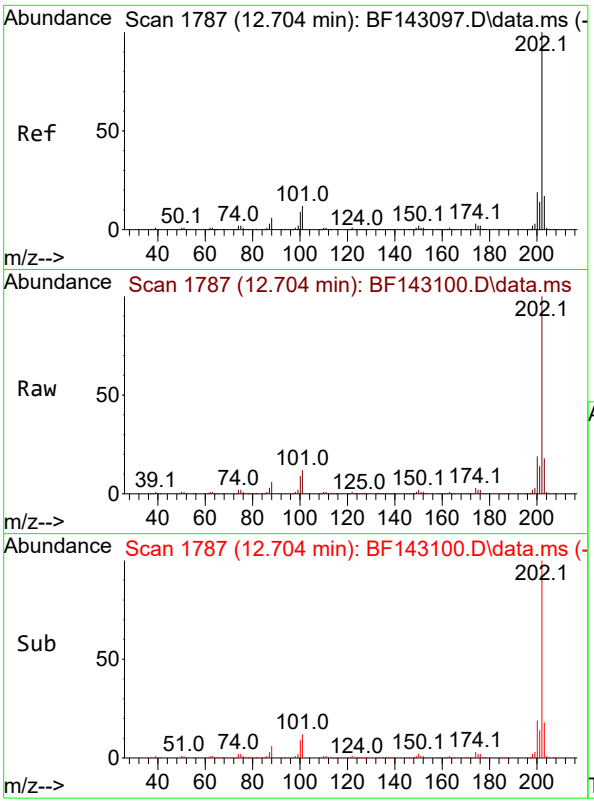


#74
Di-n-butylphthalate
Concen: 80.422 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:149 Resp: 1299711

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.8	3.8	5.8





#75
Fluoranthene
Concen: 70.821 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

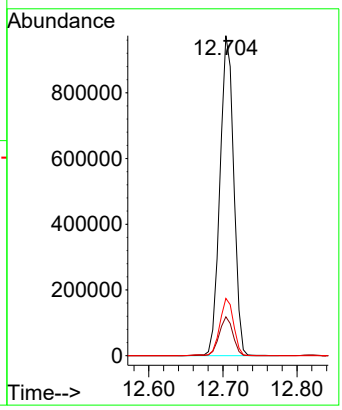
Tgt Ion:202 Resp: 125847

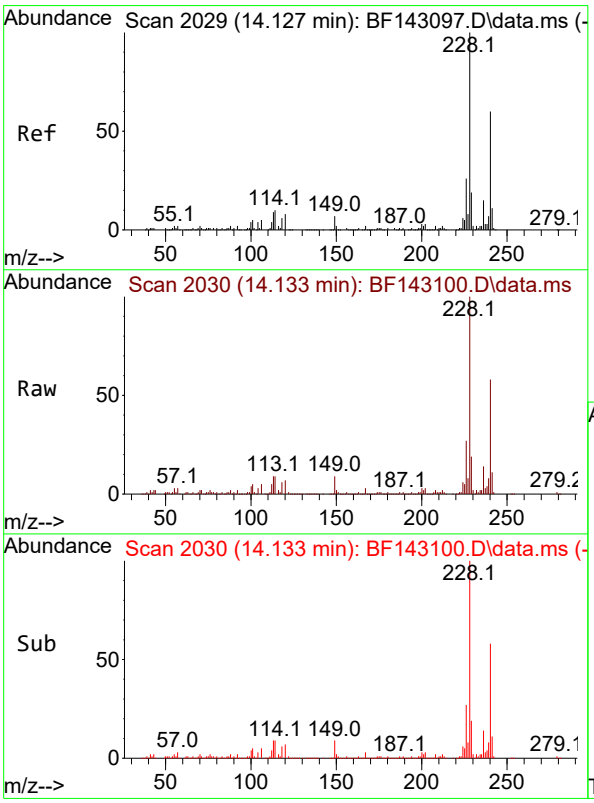
Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	32.4
203	17.9	0.0	37.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

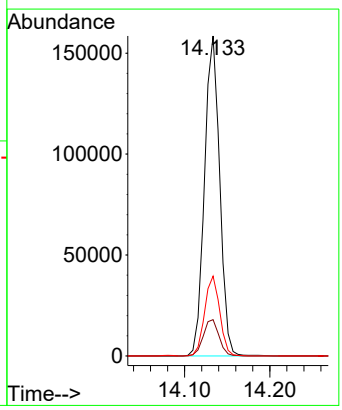


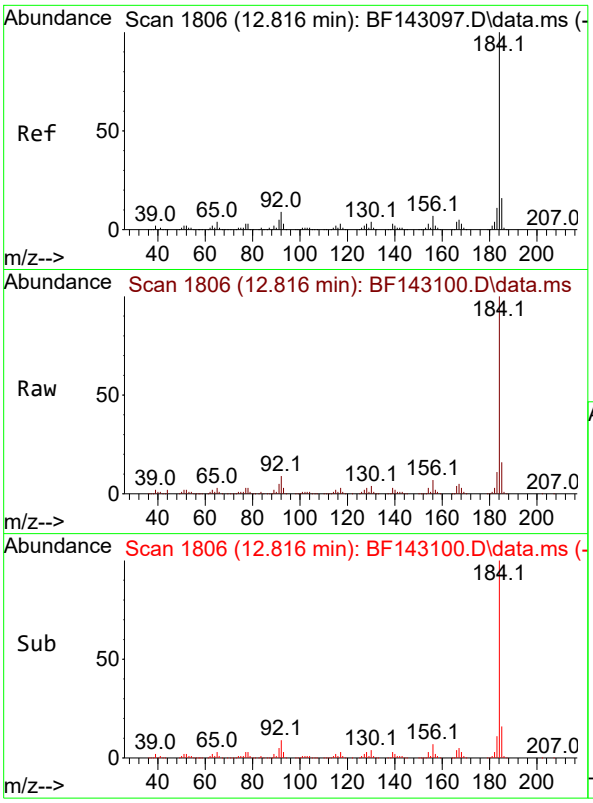


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:240 Resp: 196411

Ion	Ratio	Lower	Upper
240	100		
120	11.3	10.0	15.0
236	25.0	20.0	30.0

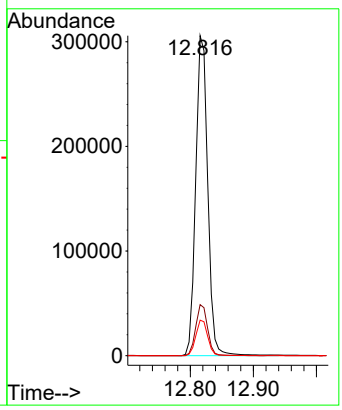




#77
Benzidine
Concen: 60.315 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:184 Resp: 40359

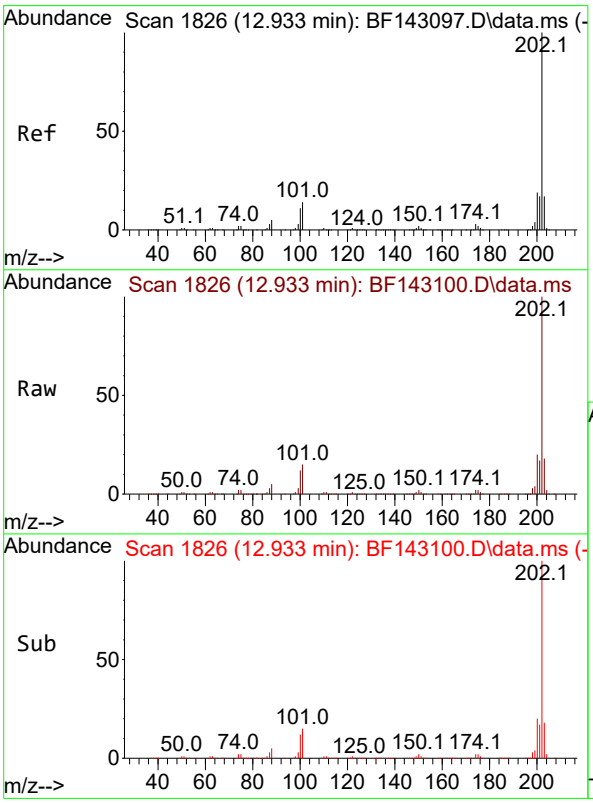
Ion	Ratio	Lower	Upper
184	100		
185	15.9	12.4	18.6
183	11.1	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

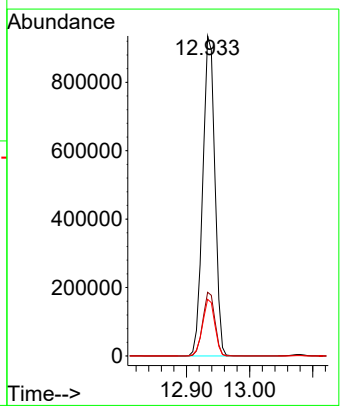
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

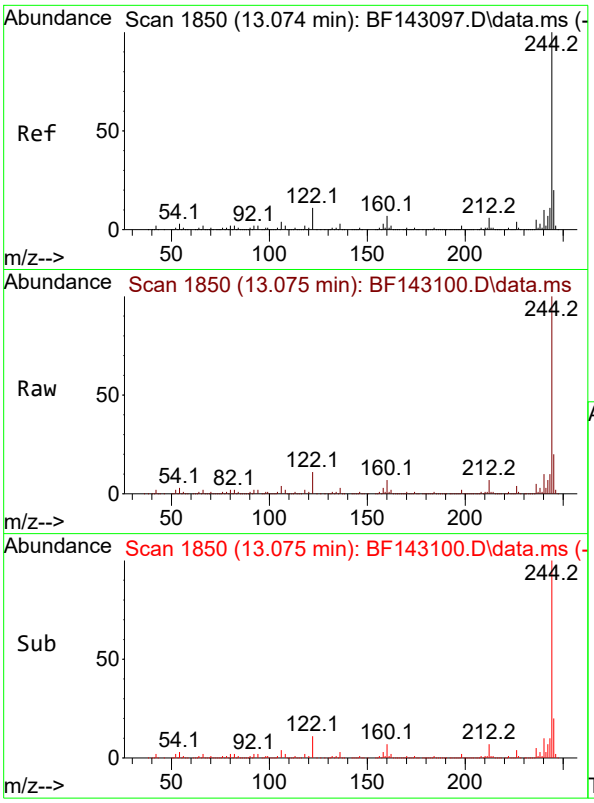


#78
Pyrene
Concen: 68.315 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:202 Resp: 1244953

Ion	Ratio	Lower	Upper
202	100		
200	19.9	15.5	23.3
203	17.7	14.0	21.0

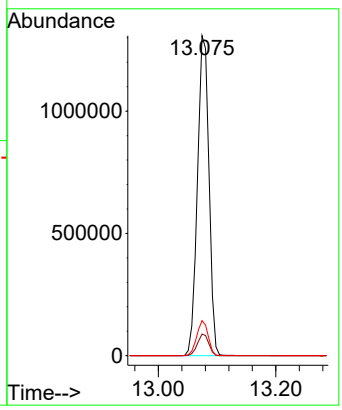




#79
Terphenyl-d14
Concen: 132.466 ng
RT: 13.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:244 Resp: 177982

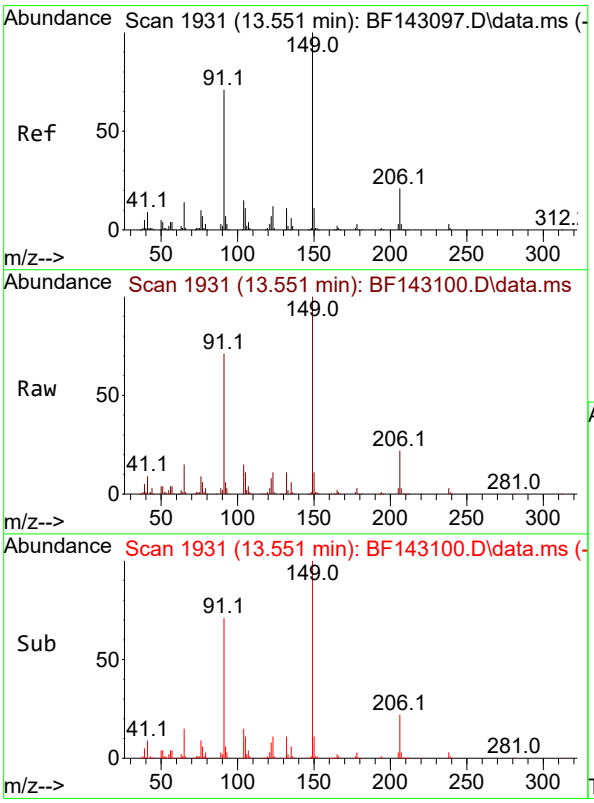
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.2	7.8
122	11.0	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

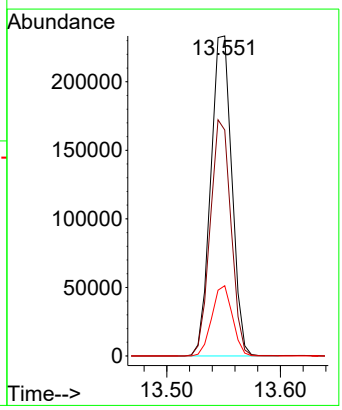
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

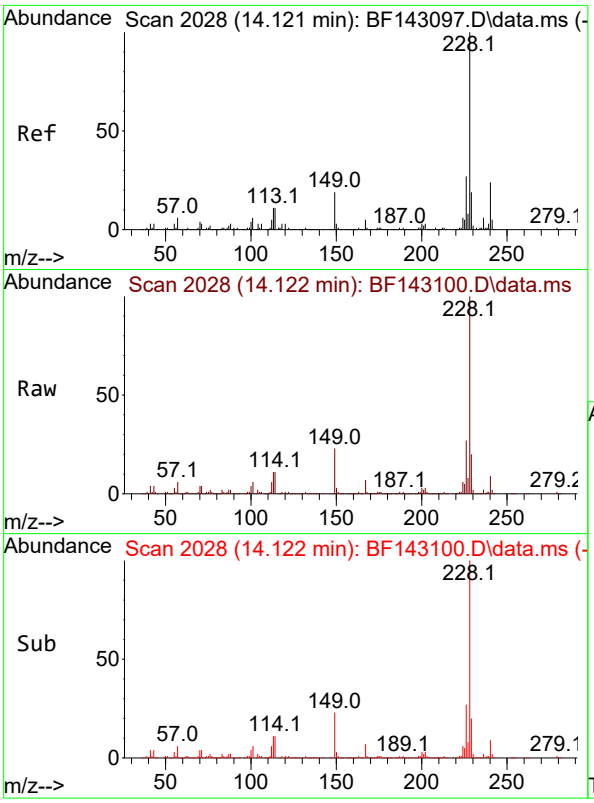


#80
Butylbenzylphthalate
Concen: 79.914 ng
RT: 13.551 min Scan# 1931
Delta R.T. -0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:149 Resp: 301525

Ion	Ratio	Lower	Upper
149	100		
91	70.6	57.0	85.4
206	21.9	17.2	25.8

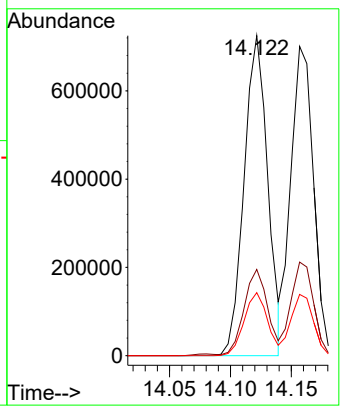




#81
Benzo(a)anthracene
Concen: 74.870 ng
RT: 14.122 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:228 Resp: 97990

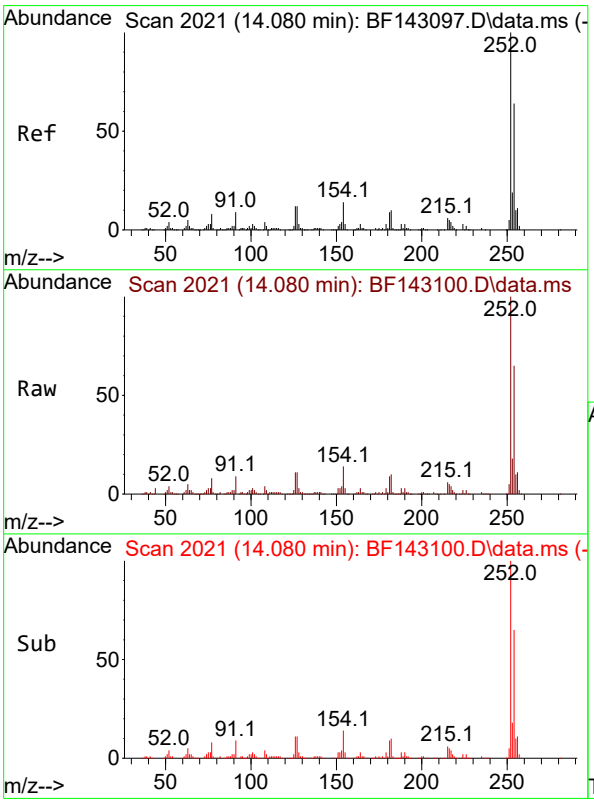
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.3	31.9
229	19.7	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

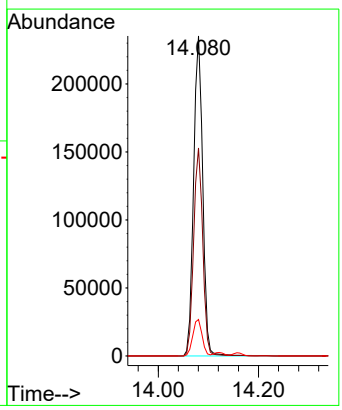
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

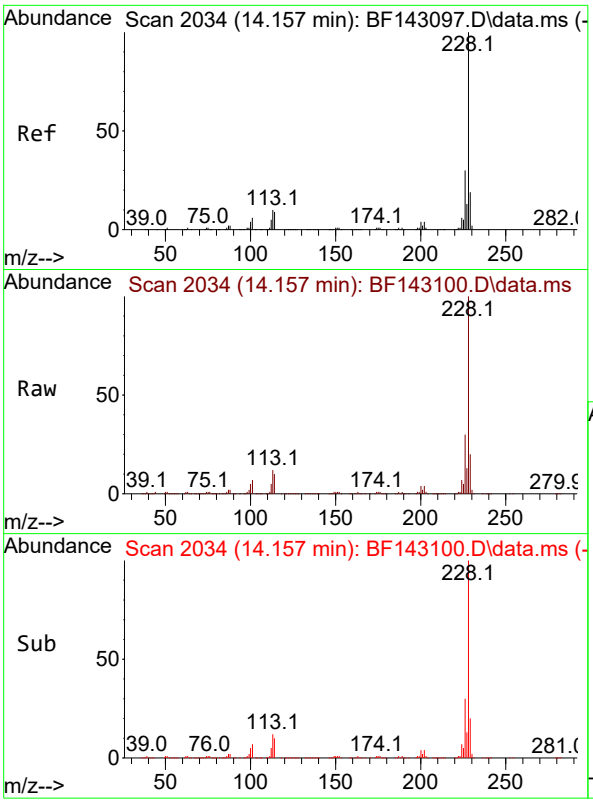


#82
3,3'-Dichlorobenzidine
Concen: 77.896 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:252 Resp: 296061

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.5	77.3
126	11.4	9.4	14.0

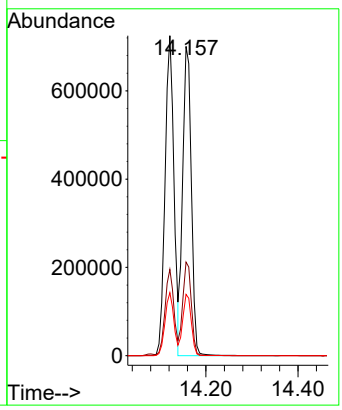




#83
Chrysene
Concen: 75.743 ng
RT: 14.157 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:228 Resp: 91303

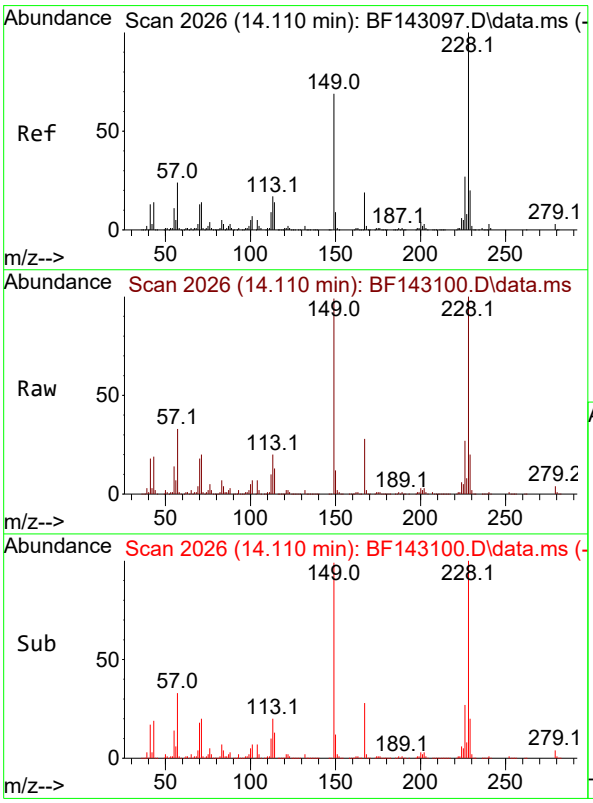
Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.4	35.2
229	19.8	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

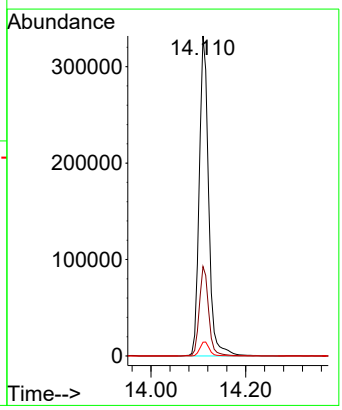
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

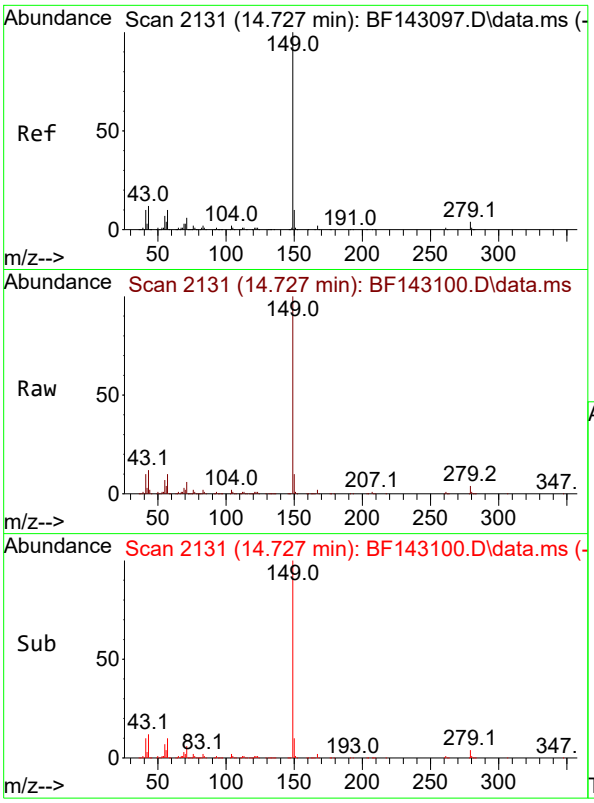


#84
Bis(2-ethylhexyl)phthalate
Concen: 80.495 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:149 Resp: 458210

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.9	32.9
279	4.3	3.4	5.0

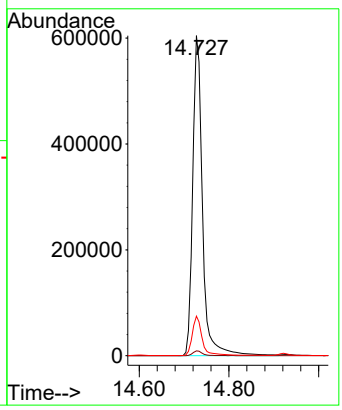




#85
Di-n-octyl phthalate
Concen: 82.209 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:149 Resp: 91674

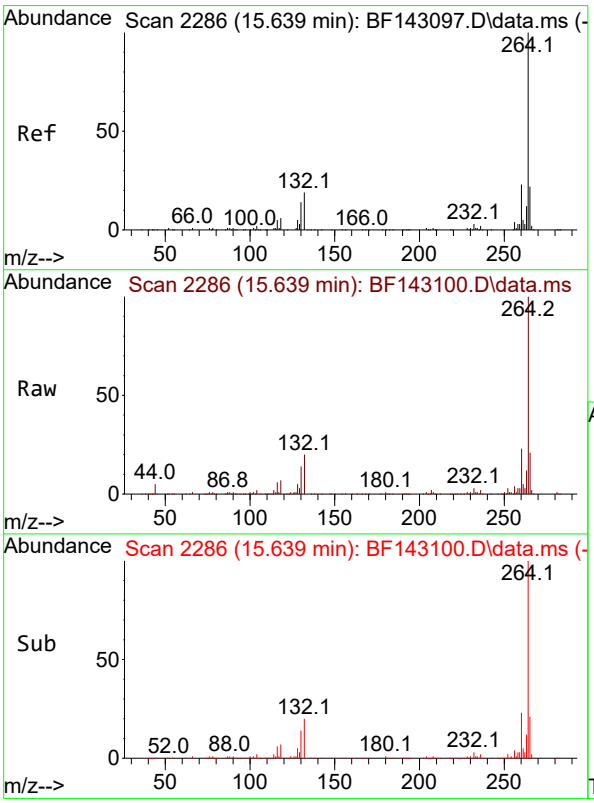
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.3	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

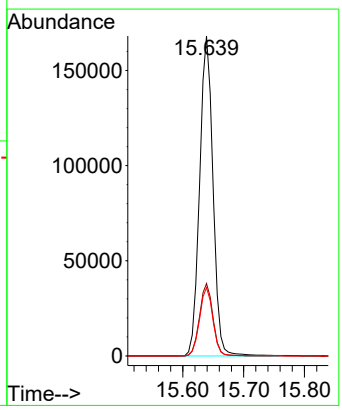
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

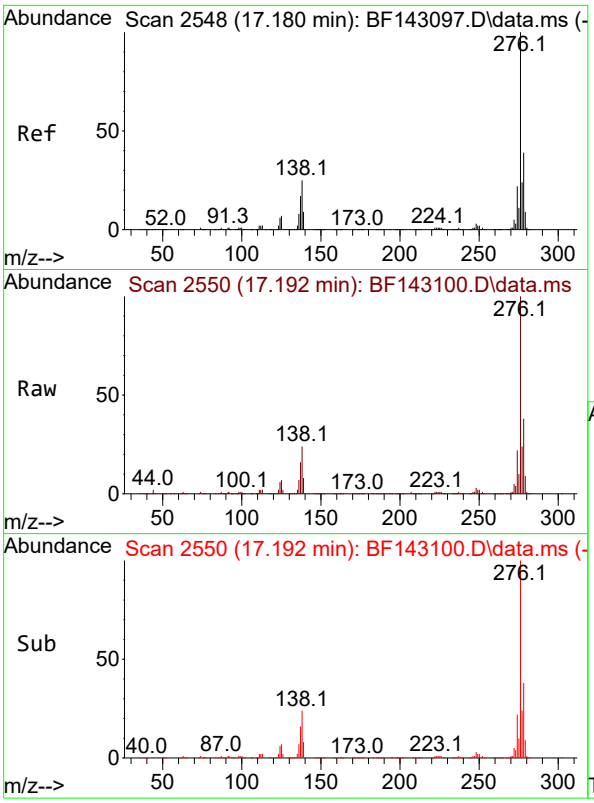


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2286
Delta R.T. 0.000 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:264 Resp: 256691

Ion	Ratio	Lower	Upper
264	100		
260	22.6	18.5	27.7
265	21.4	17.5	26.3

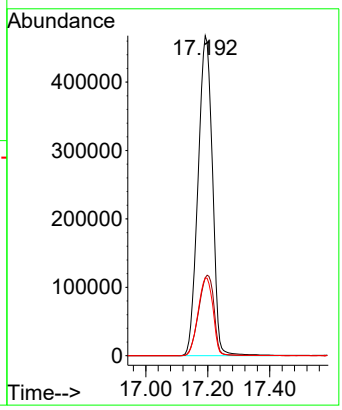




#87
Indeno(1,2,3-cd)pyrene
Concen: 79.082 ng
RT: 17.192 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:276 Resp: 150981

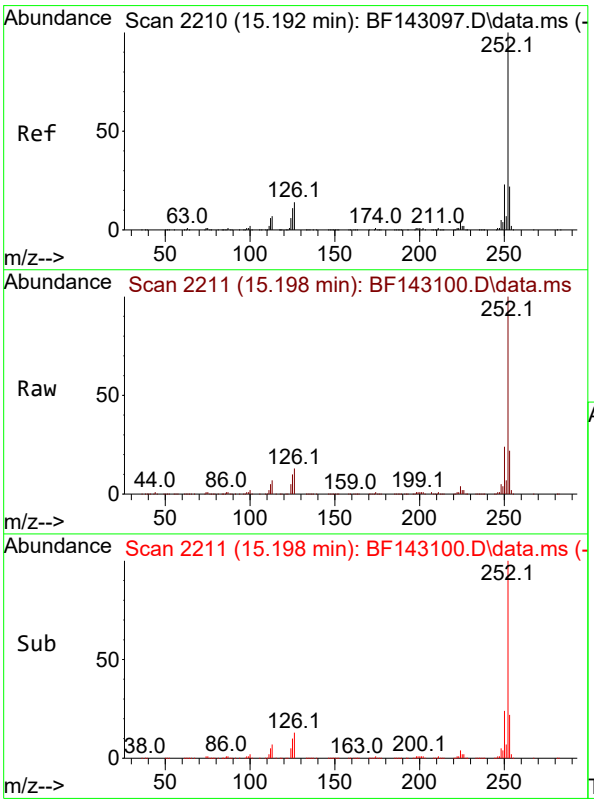
Ion	Ratio	Lower	Upper
276	100		
138	26.8	22.6	34.0
277	25.3	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

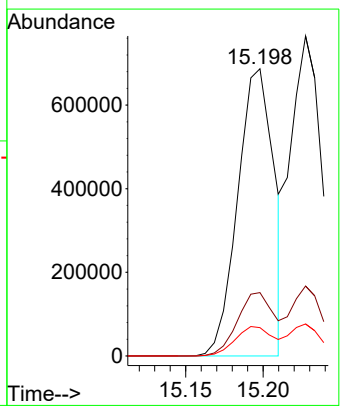
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

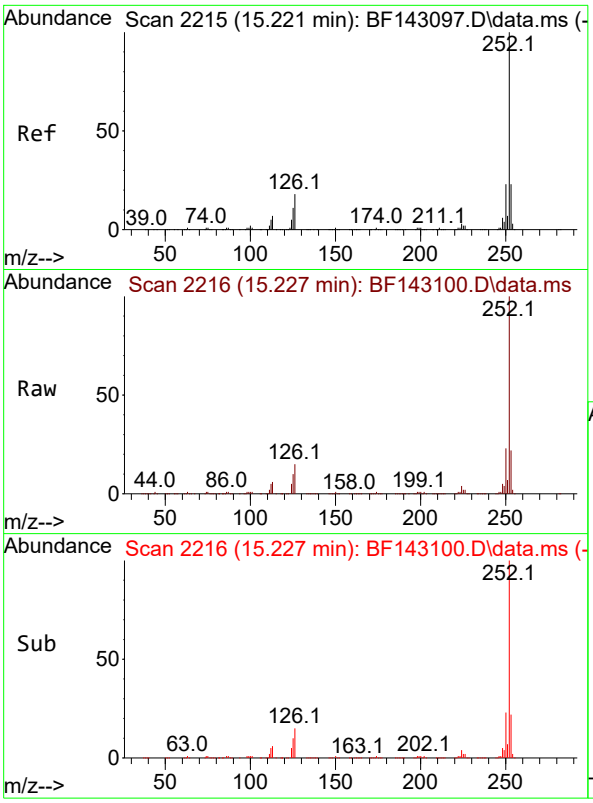


#88
Benzo(b)fluoranthene
Concen: 75.360 ng
RT: 15.198 min Scan# 2211
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:252 Resp: 1115815

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	9.8	8.6	13.0

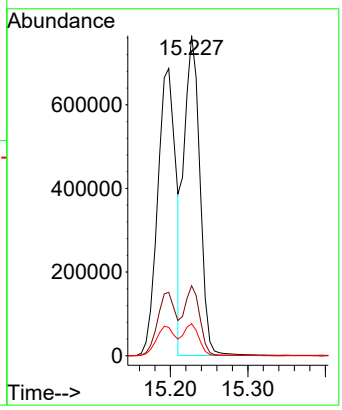




#89
Benzo(k)fluoranthene
Concen: 76.736 ng
RT: 15.227 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:252 Resp: 108393

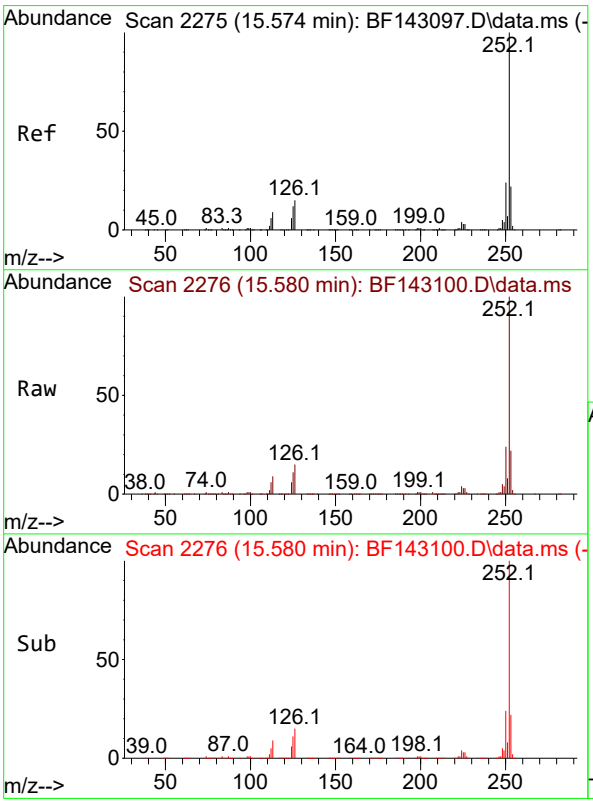
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	10.0	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

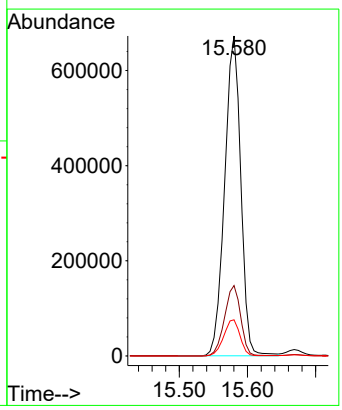
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

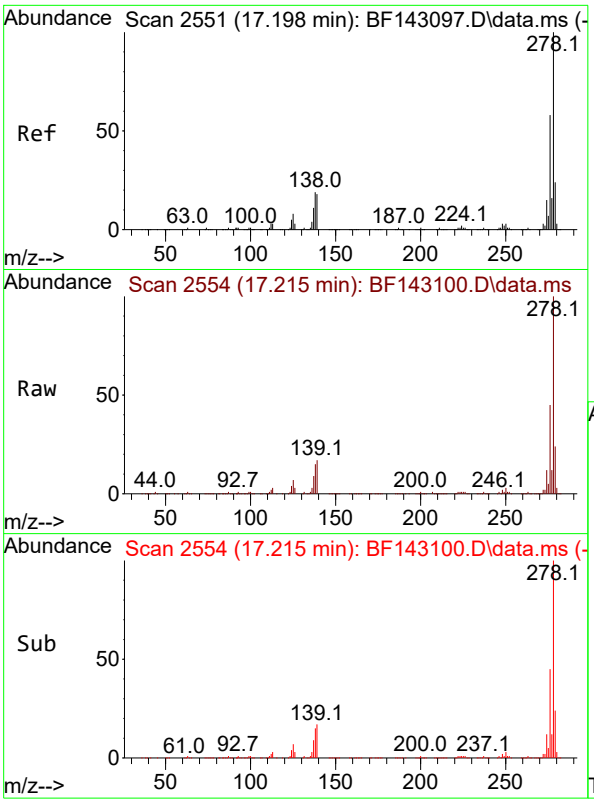


#90
Benzo(a)pyrene
Concen: 79.071 ng
RT: 15.580 min Scan# 2276
Delta R.T. 0.006 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:252 Resp: 1107280

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.3	9.4	14.0

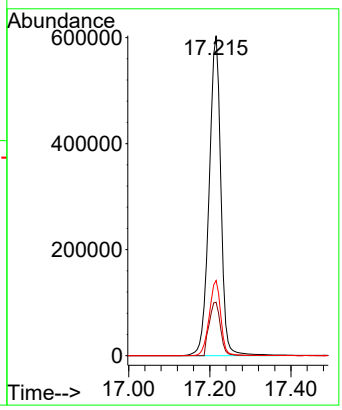




#91
Dibenzo(a,h)anthracene
Concen: 77.528 ng
RT: 17.215 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:278 Resp: 120997

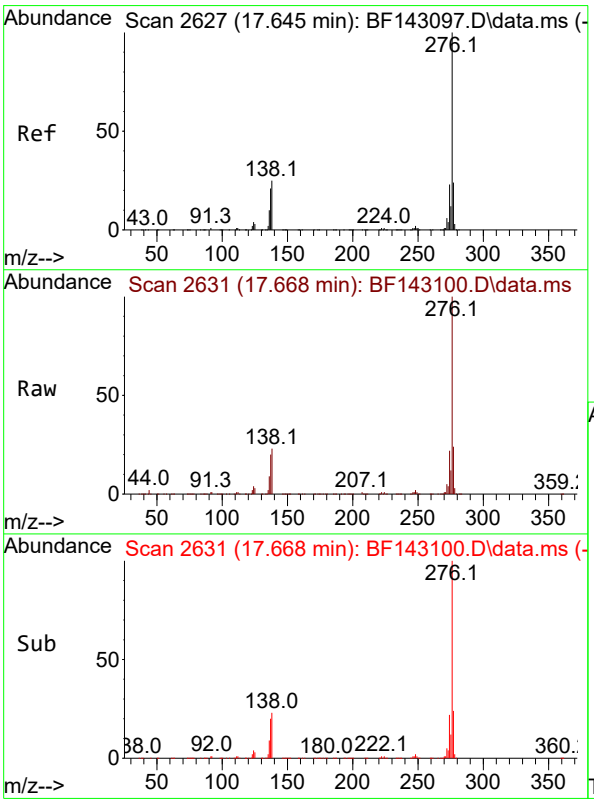
Ion	Ratio	Lower	Upper
278	100		
139	16.7	14.6	22.0
279	23.5	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

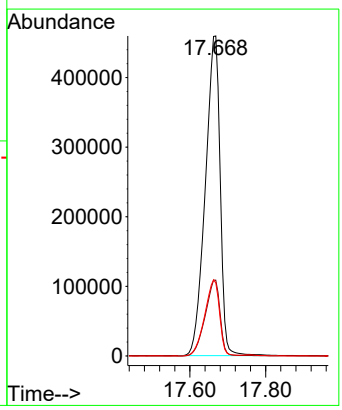
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 78.321 ng
RT: 17.668 min Scan# 2631
Delta R.T. 0.024 min
Lab File: BF143100.D
Acq: 15 Jul 2025 16:35

Tgt Ion:276 Resp: 1246206

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	22.8	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	130235	20.000	ng	0.00
21) Naphthalene-d8	8.251	136	496378	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	248221	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	398969	20.000	ng	0.00
76) Chrysene-d12	14.133	240	215152	20.000	ng	0.00
86) Perylene-d12	15.639	264	235493	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.587	112	649544	78.799	ng	0.00
7) Phenol-d6	6.587	99	814393	78.598	ng	0.00
23) Nitrobenzene-d5	7.528	82	692735m	78.289	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	190277	85.971	ng	0.00
45) 2-Fluorobiphenyl	9.328	172	1290148	69.090	ng	0.00
79) Terphenyl-d14	13.074	244	1064372	72.317	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.810	88	156917	38.242	ng	99
3) Pyridine	3.581	79	426106	41.009	ng	99
4) n-Nitrosodimethylamine	3.522	42	223240	41.468	ng	98
6) Aniline	6.628	93	598787	41.038	ng	100
8) 2-Chlorophenol	6.751	128	351129	42.397	ng	99
9) Benzaldehyde	6.516	77	293033	37.115	ng	99
10) Phenol	6.598	94	467536m	41.681	ng	
11) bis(2-Chloroethyl)ether	6.698	93	354713	40.848	ng	99
12) 1,3-Dichlorobenzene	6.910	146	380756	40.694	ng	100
13) 1,4-Dichlorobenzene	6.987	146	381590	40.539	ng	100
14) 1,2-Dichlorobenzene	7.139	146	366082	40.782	ng	99
15) Benzyl Alcohol	7.098	79	325035	42.336	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.239	45	644651	40.273	ng	100
17) 2-Methylphenol	7.204	107	296835	41.532	ng	99
18) Hexachloroethane	7.486	117	132499	43.239	ng	100
19) n-Nitroso-di-n-propyla...	7.375	70	266499	41.982	ng	100
20) 3+4-Methylphenols	7.363	107	368618	42.057	ng	99
22) Acetophenone	7.375	105	482823	40.351	ng	99
24) Nitrobenzene	7.545	77	381374	44.647	ng	99
25) Isophorone	7.786	82	704424	41.188	ng	100
26) 2-Nitrophenol	7.863	139	150156	44.317	ng	100
27) 2,4-Dimethylphenol	7.892	122	333899	42.064	ng	100
28) bis(2-Chloroethoxy)met...	7.992	93	423022	40.789	ng	100
29) 2,4-Dichlorophenol	8.098	162	283011	43.580	ng	99
30) 1,2,4-Trichlorobenzene	8.192	180	303602	41.194	ng	99
31) Naphthalene	8.275	128	999363	40.543	ng	99
32) Benzoic acid	7.986	122	169020m	43.449	ng	
33) 4-Chloroaniline	8.310	127	408741	41.236	ng	99
34) Hexachlorobutadiene	8.392	225	182140	41.324	ng	99
35) Caprolactam	8.675	113	88286	43.536	ng	95
36) 4-Chloro-3-methylphenol	8.786	107	306624	42.387	ng	99
37) 2-Methylnaphthalene	8.963	142	597819	40.654	ng	100
38) 1-Methylnaphthalene	9.063	142	624130	40.922	ng	100
40) 1,2,4,5-Tetrachloroben...	9.128	216	293187	40.531	ng	99
41) Hexachlorocyclopentadiene	9.122	237	180819	45.086	ng	98
43) 2,4,6-Trichlorophenol	9.233	196	197565	43.955	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.269	196	202658	43.001	ng		99
46) 1,1'-Biphenyl	9.428	154	799467	40.387	ng		100
47) 2-Chloronaphthalene	9.451	162	584687	40.207	ng		100
48) 2-Nitroaniline	9.539	65	185847	43.148	ng		96
49) Acenaphthylene	9.869	152	987106	40.736	ng		99
50) Dimethylphthalate	9.722	163	644618	41.279	ng		100
51) 2,6-Dinitrotoluene	9.780	165	132241	43.156	ng		92
52) Acenaphthene	10.039	154	571724	39.982	ng		99
53) 3-Nitroaniline	9.945	138	160978	47.707	ng		99
54) 2,4-Dinitrophenol	10.051	184	46465	47.113	ng	#	1
55) Dibenzofuran	10.210	168	858944	40.300	ng		100
56) 4-Nitrophenol	10.092	139	122610	45.720	ng		96
57) 2,4-Dinitrotoluene	10.180	165	168227	43.964	ng		99
58) Fluorene	10.557	166	634897	39.732	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.327	232	168172	44.902	ng		98
60) Diethylphthalate	10.422	149	637247	42.297	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	313111	40.882	ng		98
62) 4-Nitroaniline	10.557	138	139342	47.486	ng		98
63) Azobenzene	10.704	77	680354	40.833	ng		99
65) 4,6-Dinitro-2-methylph...	10.586	198	65266	44.754	ng		98
66) n-Nitrosodiphenylamine	10.663	169	563086	40.179	ng		100
67) 4-Bromophenyl-phenylether	11.033	248	189573	41.782	ng		100
68) Hexachlorobenzene	11.104	284	196969	40.915	ng		99
69) Atrazine	11.180	200	158741	44.273	ng		98
70) Pentachlorophenol	11.292	266	118797	44.978	ng		99
71) Phenanthrene	11.516	178	871369	40.469	ng		100
72) Anthracene	11.569	178	887738	40.999	ng		100
73) Carbazole	11.716	167	791886	40.823	ng		99
74) Di-n-butylphthalate	12.051	149	820833	46.099	ng		100
75) Fluoranthene	12.704	202	824497	42.113	ng		100
77) Benzidine	12.816	184	350573	47.827	ng		98
78) Pyrene	12.933	202	820201	41.087	ng		100
80) Butylbenzylphthalate	13.551	149	172390	43.340	ng		100
81) Benzo(a)anthracene	14.121	228	583794	40.719	ng		100
82) 3,3'-Dichlorobenzidine	14.080	252	183371	44.044	ng		99
83) Chrysene	14.157	228	530018	40.139	ng		98
84) Bis(2-ethylhexyl)phtha...	14.110	149	239329	40.166	ng		99
85) Di-n-octyl phthalate	14.727	149	424959	38.648	ng		100
87) Indeno(1,2,3-cd)pyrene	17.186	276	744447	42.503	ng		100
88) Benzo(b)fluoranthene	15.192	252	594727	43.782	ng		100
89) Benzo(k)fluoranthene	15.221	252	513977	39.662	ng		99
90) Benzo(a)pyrene	15.574	252	548875	42.724	ng		99
91) Dibenzo(a,h)anthracene	17.203	278	611881	42.735	ng		99
92) Benzo(g,h,i)perylene	17.651	276	632939	43.359	ng		99

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

ICAL Form

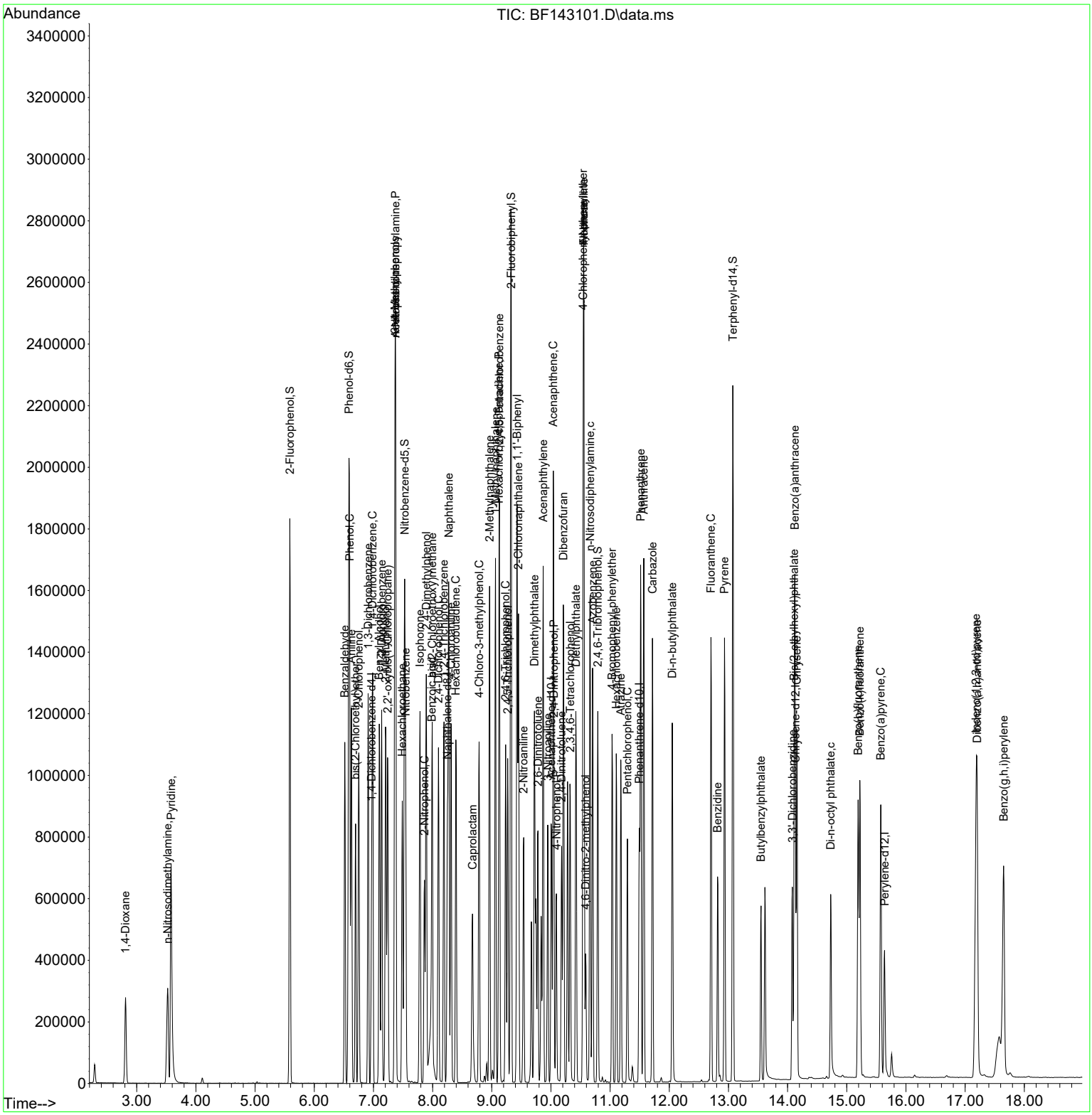
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

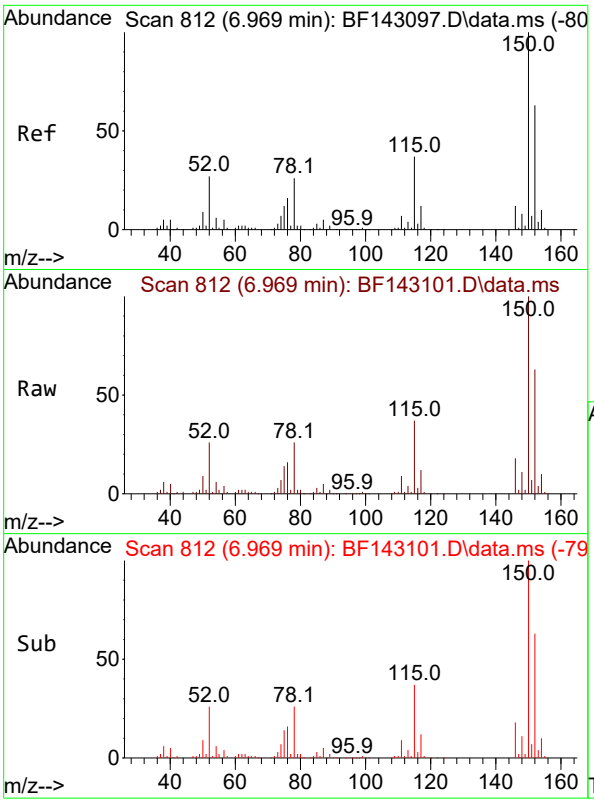
Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

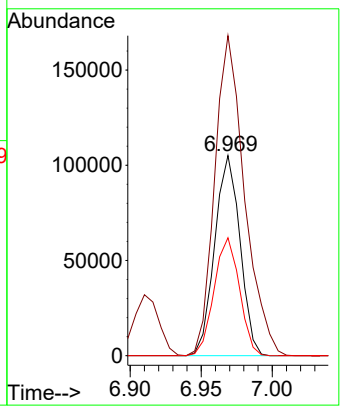




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:152 Resp: 13023

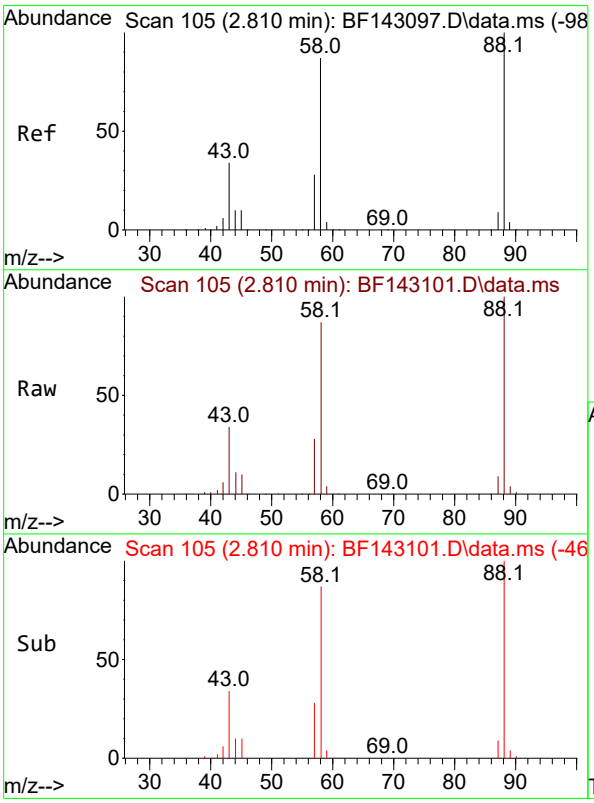
Ion	Ratio	Lower	Upper
152	100		
150	159.9	126.5	189.7
115	58.9	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations
APPROVED

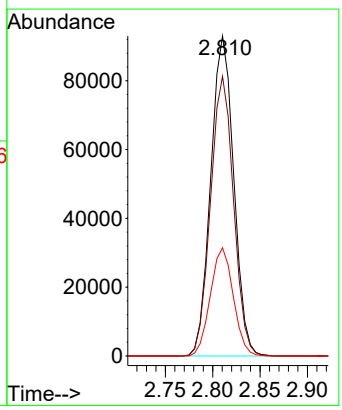
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

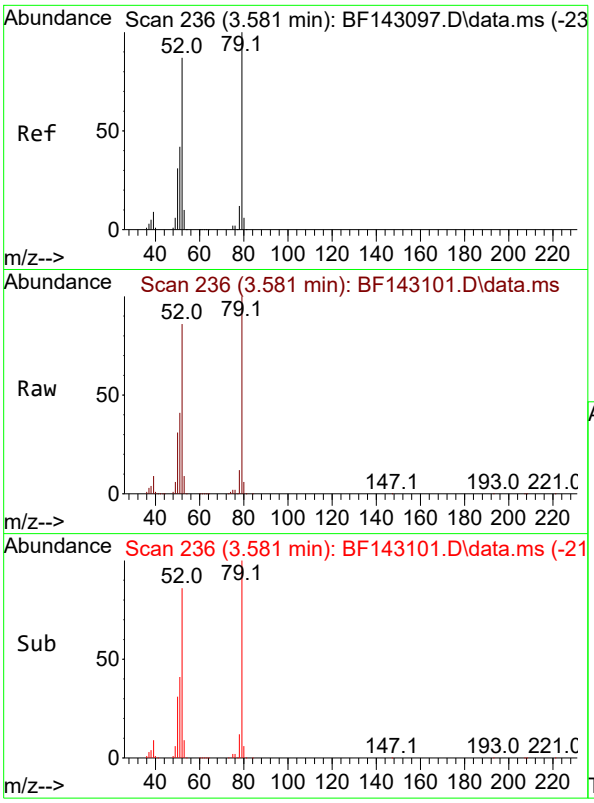


#2
1,4-Dioxane
Concen: 38.242 ng
RT: 2.810 min Scan# 105
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 88 Resp: 156917

Ion	Ratio	Lower	Upper
88	100		
58	87.3	70.5	105.7
43	33.7	27.3	40.9

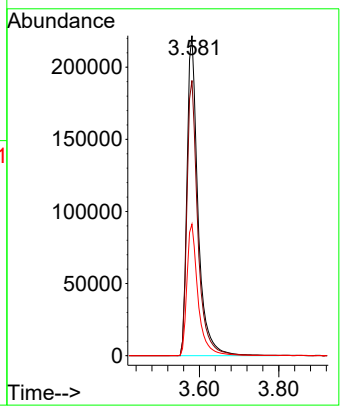




#3
Pyridine
Concen: 41.009 ng
RT: 3.581 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 79 Resp: 42610

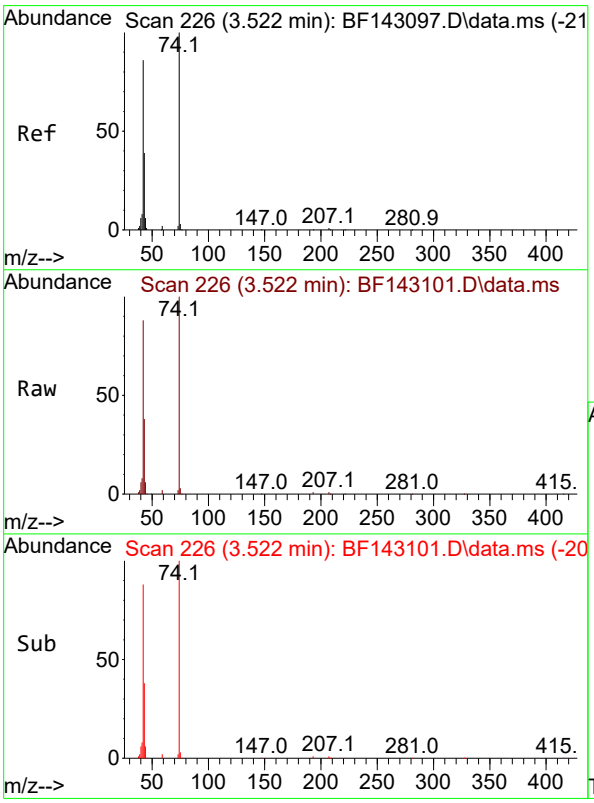
Ion	Ratio	Lower	Upper
79	100		
52	86.0	69.2	103.8
51	41.1	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

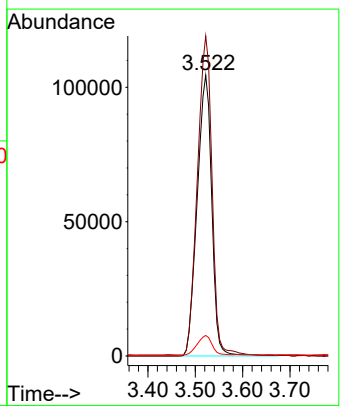
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

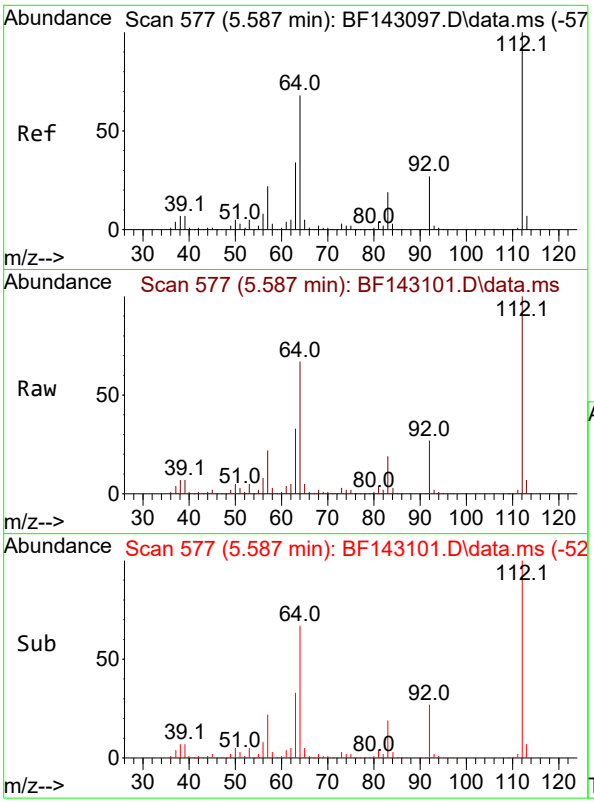


#4
n-Nitrosodimethylamine
Concen: 41.468 ng
RT: 3.522 min Scan# 226
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 42 Resp: 223240

Ion	Ratio	Lower	Upper
42	100		
74	114.0	92.8	139.2
44	7.3	5.8	8.6

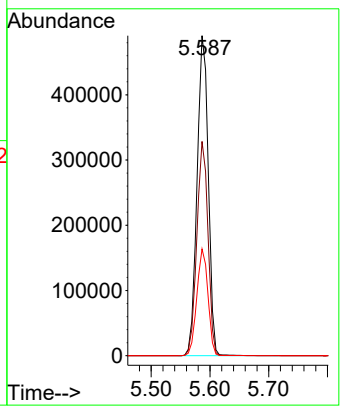




#5
2-Fluorophenol
Concen: 78.799 ng
RT: 5.587 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:112 Resp: 64954

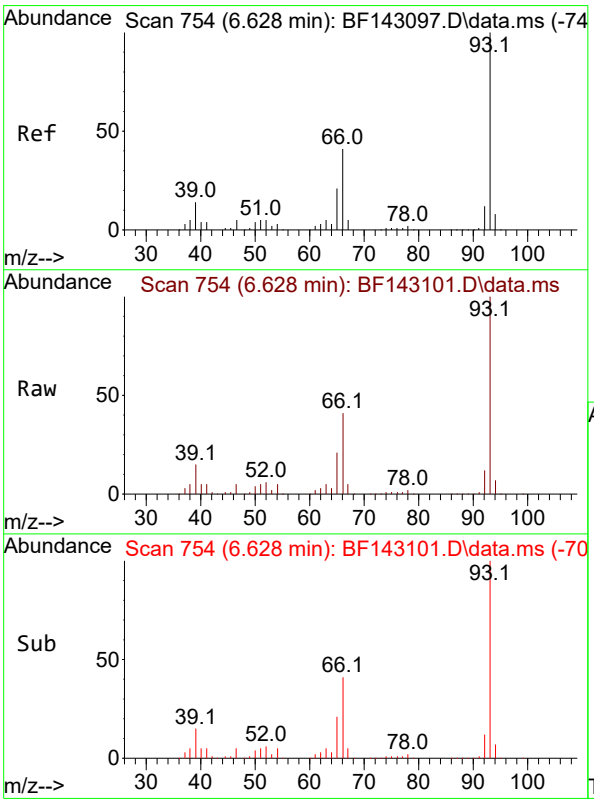
Ion	Ratio	Lower	Upper
112	100		
64	67.0	54.6	82.0
63	33.4	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

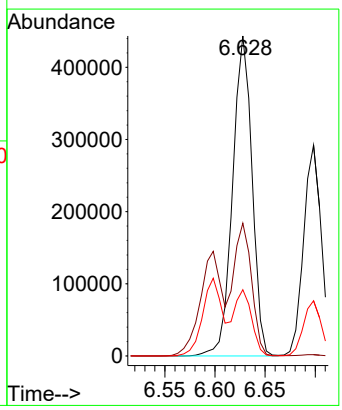
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

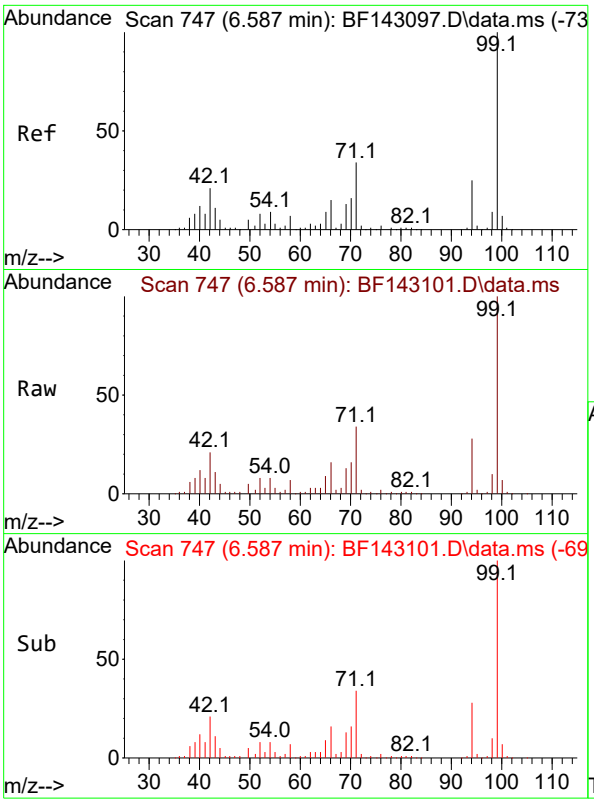


#6
Aniline
Concen: 41.038 ng
RT: 6.628 min Scan# 754
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 93 Resp: 598787

Ion	Ratio	Lower	Upper
93	100		
66	41.5	33.1	49.7
65	20.7	16.9	25.3

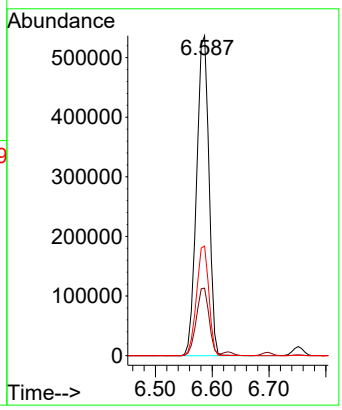




#7
Phenol-d6
Concen: 78.598 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 99 Resp: 81439

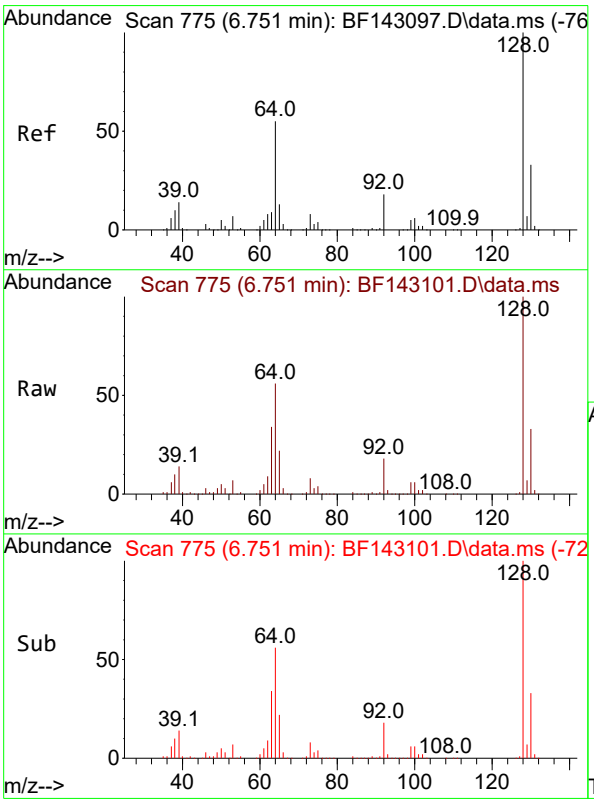
Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.2	25.8
71	34.2	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

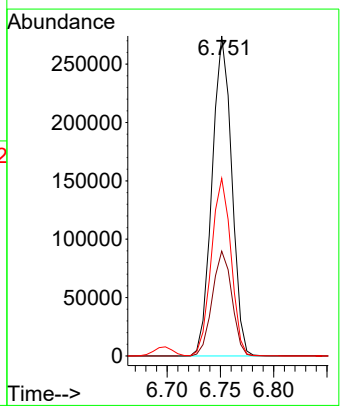
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

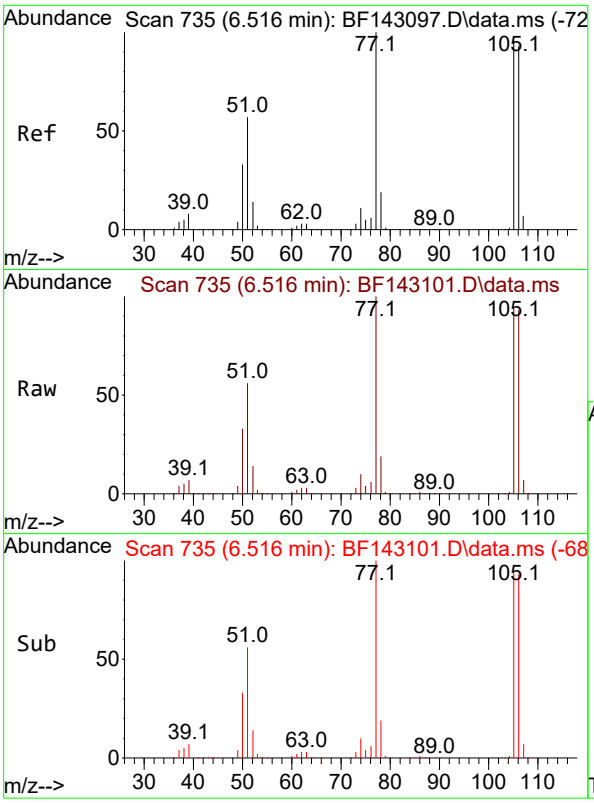


#8
2-Chlorophenol
Concen: 42.397 ng
RT: 6.751 min Scan# 775
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:128 Resp: 351129

Ion	Ratio	Lower	Upper
128	100		
130	32.8	12.8	52.8
64	55.5	36.1	76.1

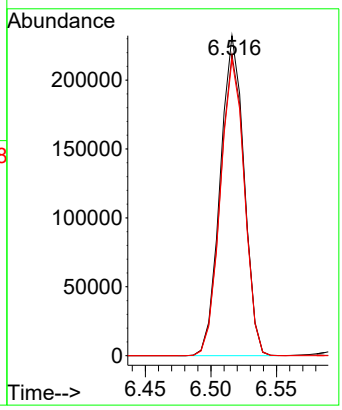




#9
Benzaldehyde
Concen: 37.115 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 77 Resp: 29303

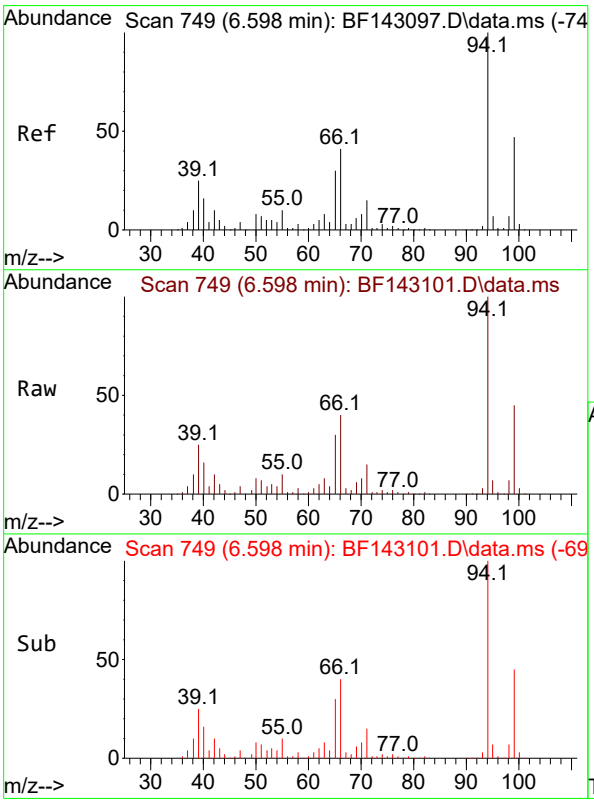
Ion	Ratio	Lower	Upper
77	100		
105	94.0	76.3	116.3
106	92.5	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

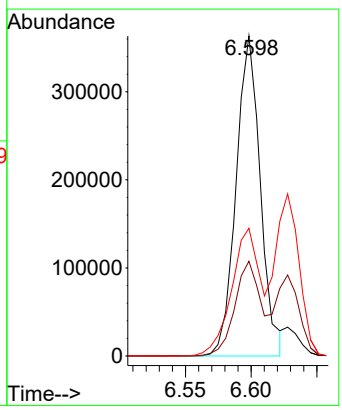
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

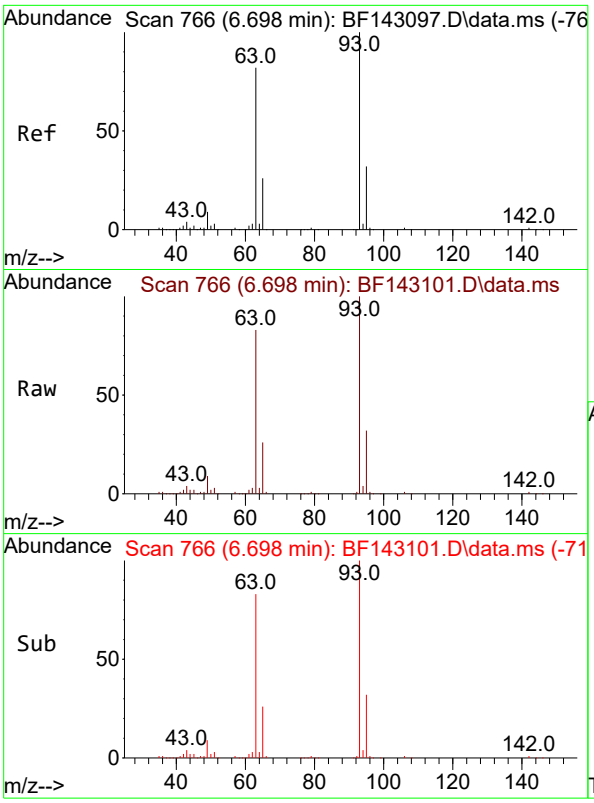


#10
Phenol
Concen: 41.681 ng m
RT: 6.598 min Scan# 749
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 94 Resp: 467536

Ion	Ratio	Lower	Upper
94	100		
65	29.6	9.8	49.8
66	39.9	20.5	60.5

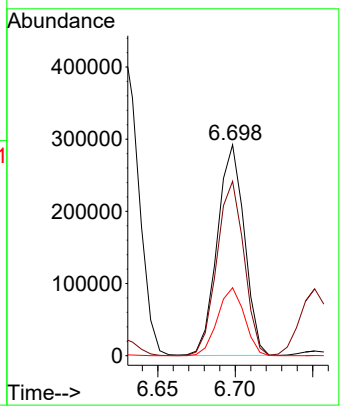




#11
bis(2-Chloroethyl)ether
Concen: 40.848 ng
RT: 6.698 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 93 Resp: 35471

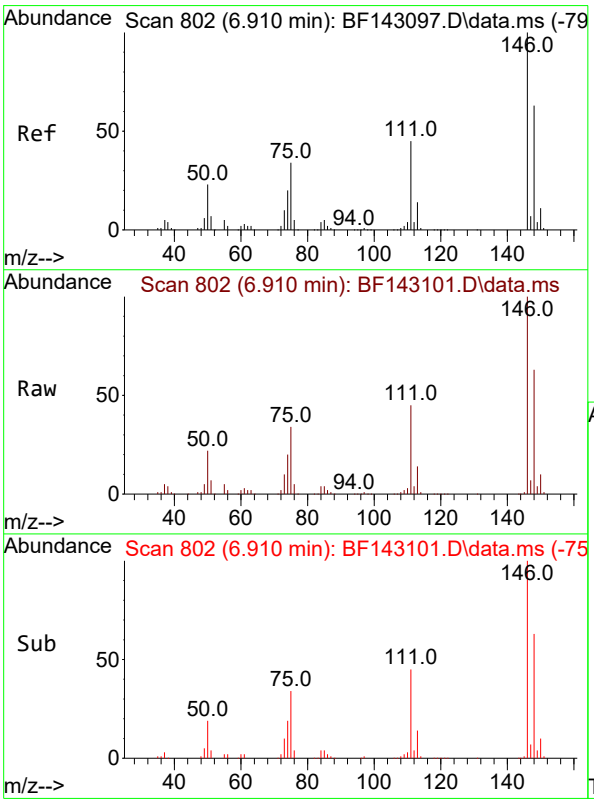
Ion	Ratio	Lower	Upper
93	100		
63	82.7	61.9	101.9
95	32.3	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations
APPROVED

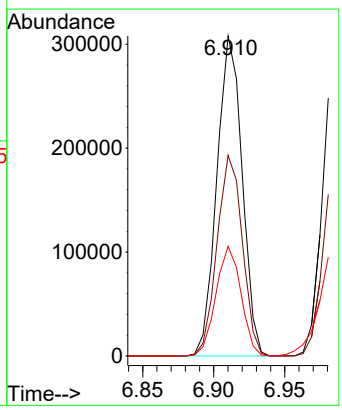
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

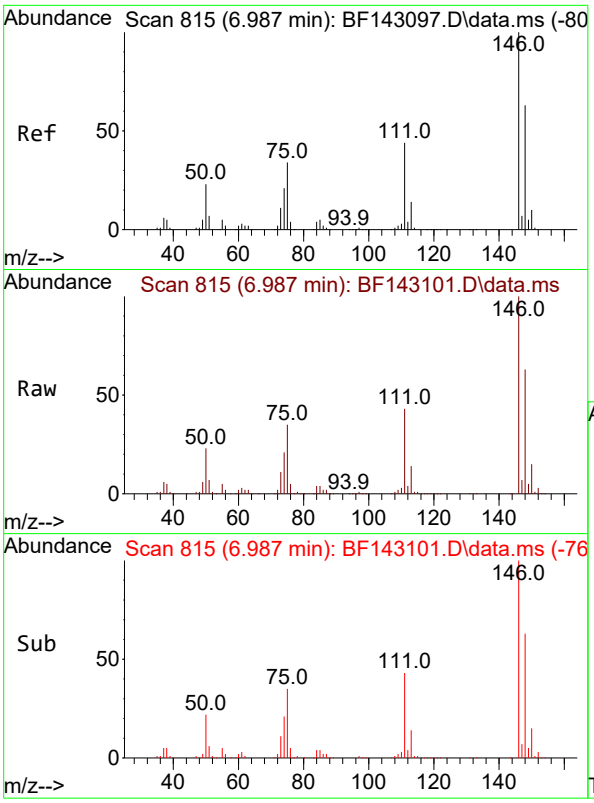


#12
1,3-Dichlorobenzene
Concen: 40.694 ng
RT: 6.910 min Scan# 802
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:146 Resp: 380756

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.1	75.1
75	34.2	27.4	41.0

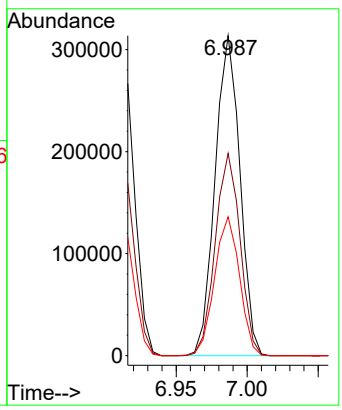




#13
1,4-Dichlorobenzene
Concen: 40.539 ng
RT: 6.987 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:146 Resp: 38159

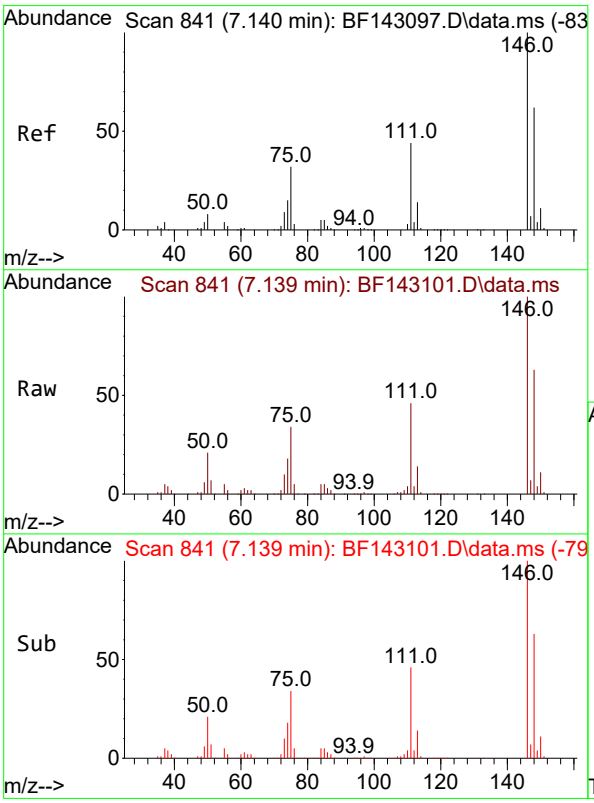
Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	76.0
111	43.4	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

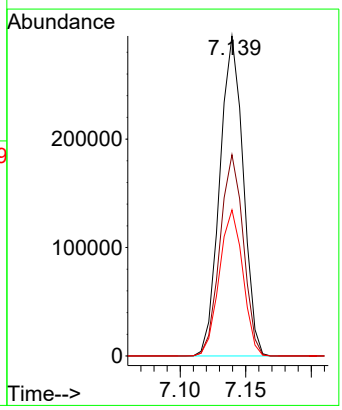
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

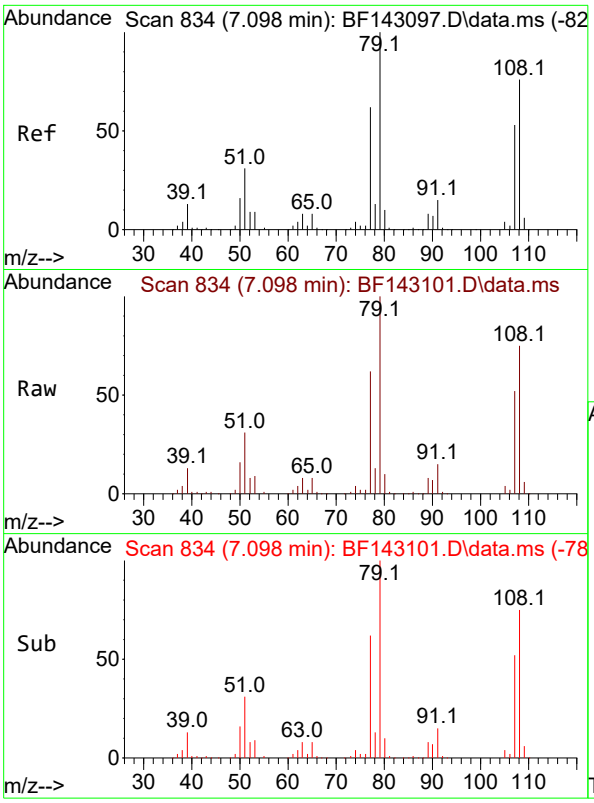


#14
1,2-Dichlorobenzene
Concen: 40.782 ng
RT: 7.139 min Scan# 841
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:146 Resp: 366082

Ion	Ratio	Lower	Upper
146	100		
148	62.9	49.8	74.6
111	45.7	35.4	53.0

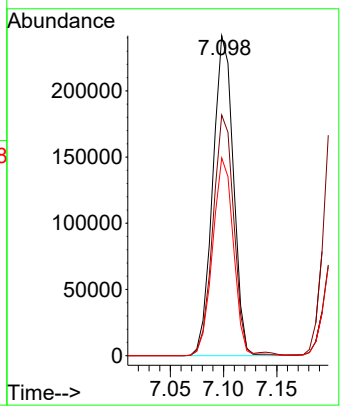




#15
Benzyl Alcohol
Concen: 42.336 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 79 Resp: 32503

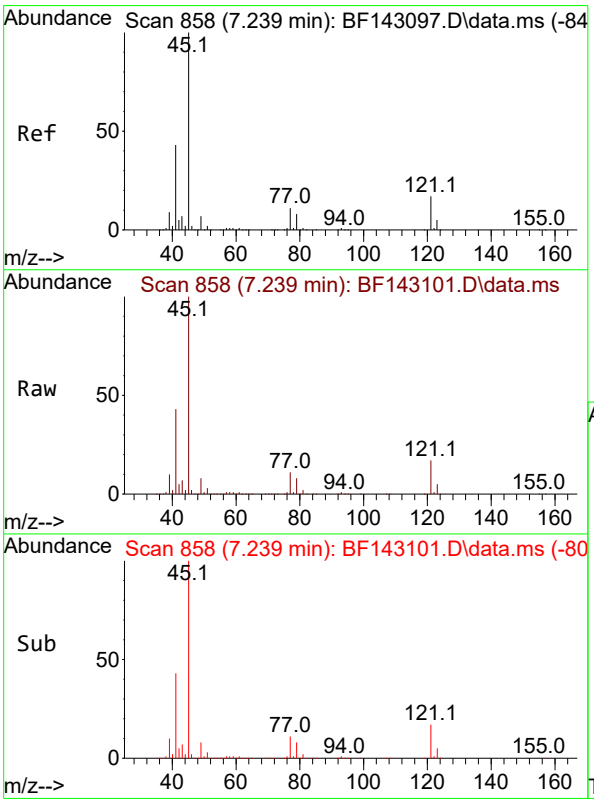
Ion	Ratio	Lower	Upper
79	100		
108	75.2	61.1	91.7
77	61.8	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

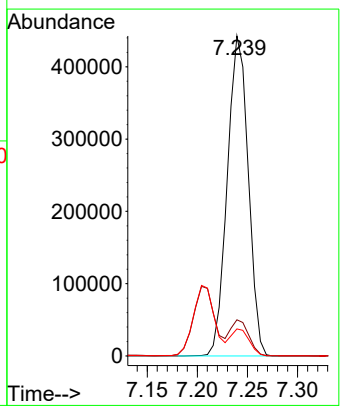
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

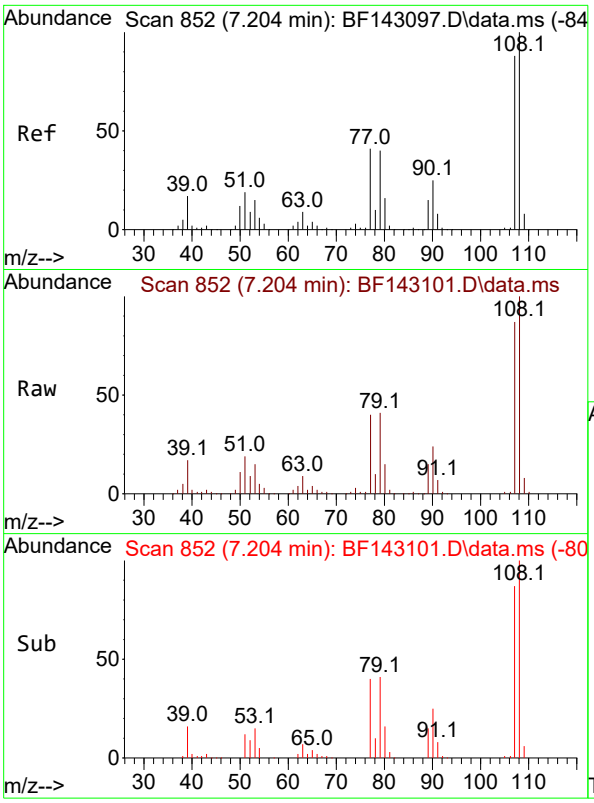


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.273 ng
RT: 7.239 min Scan# 858
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 45 Resp: 644651

Ion	Ratio	Lower	Upper
45	100		
77	11.3	0.0	31.1
79	8.4	0.0	28.4

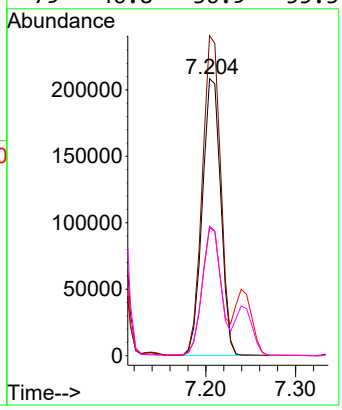




#17
2-Methylphenol
Concen: 41.532 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:107 Resp: 29683

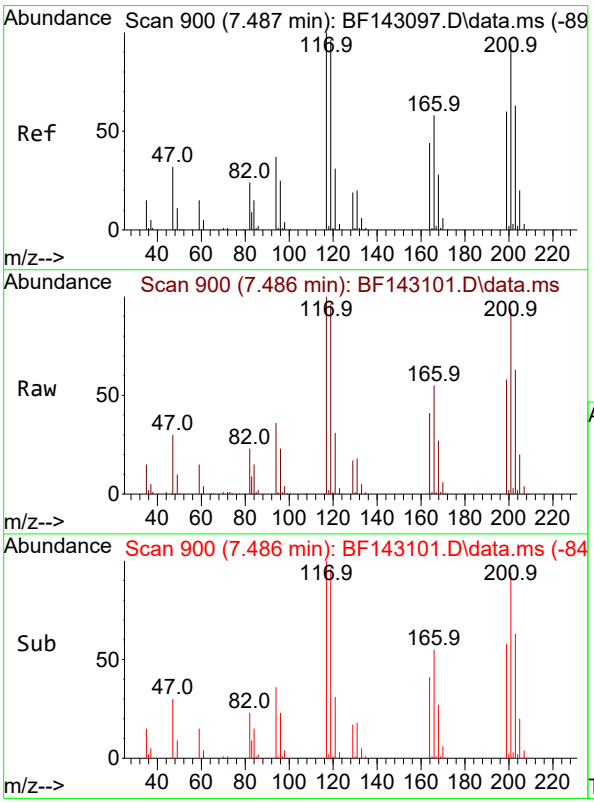
Ion	Ratio	Lower	Upper
107	100		
108	115.5	90.9	136.3
77	46.3	37.5	56.3
79	46.8	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

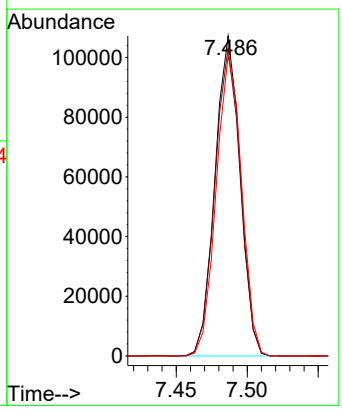
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

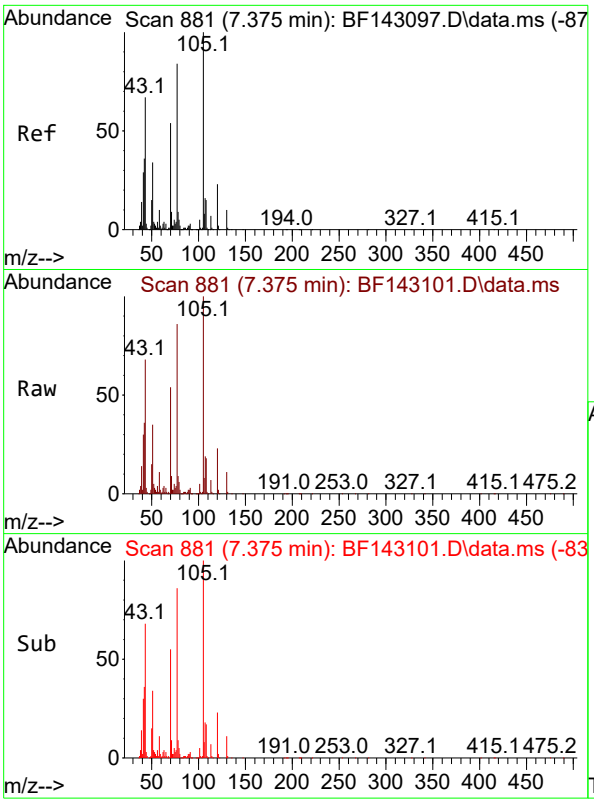


#18
Hexachloroethane
Concen: 43.239 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:117 Resp: 132499

Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.7	115.1
201	93.9	75.0	112.4

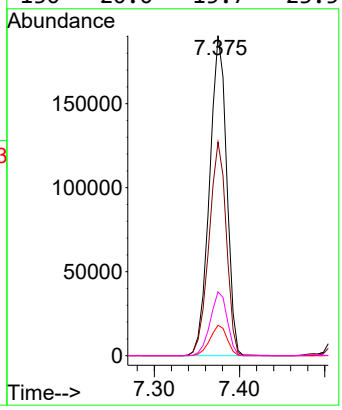




#19
n-Nitroso-di-n-propylamine
Concen: 41.982 ng
RT: 7.375 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 70 Resp: 26649

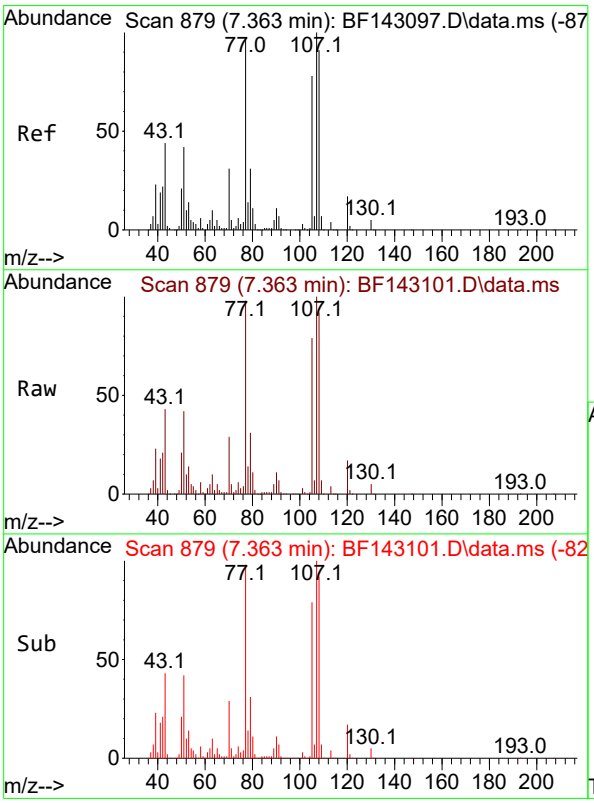
Ion	Ratio	Lower	Upper
70	100		
42	66.7	53.2	79.8
101	9.5	7.5	11.3
130	20.0	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

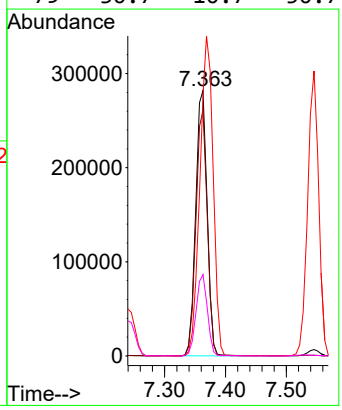
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

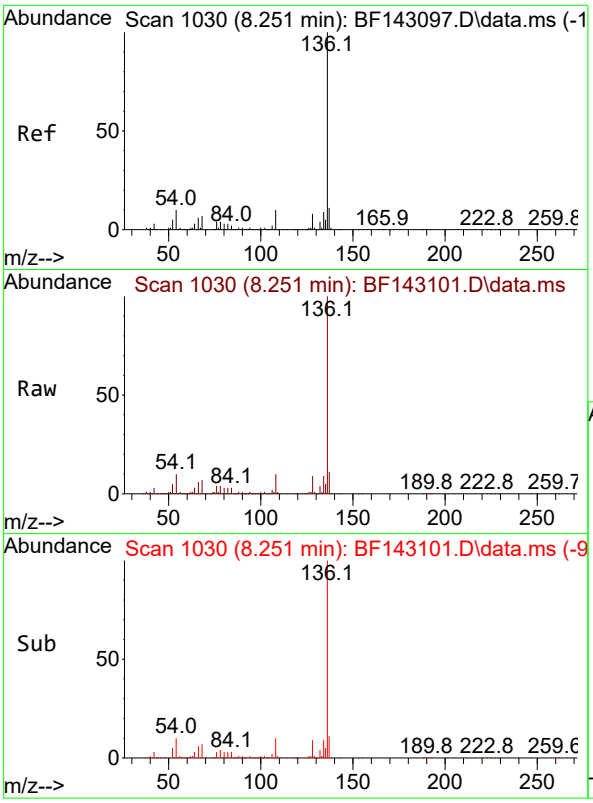


#20
3+4-Methylphenols
Concen: 42.057 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:107 Resp: 368618

Ion	Ratio	Lower	Upper
107	100		
108	92.5	71.3	111.3
77	98.3	77.2	117.2
79	30.7	10.7	50.7

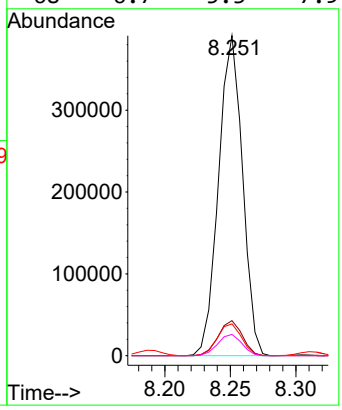




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:136 Resp: 49637

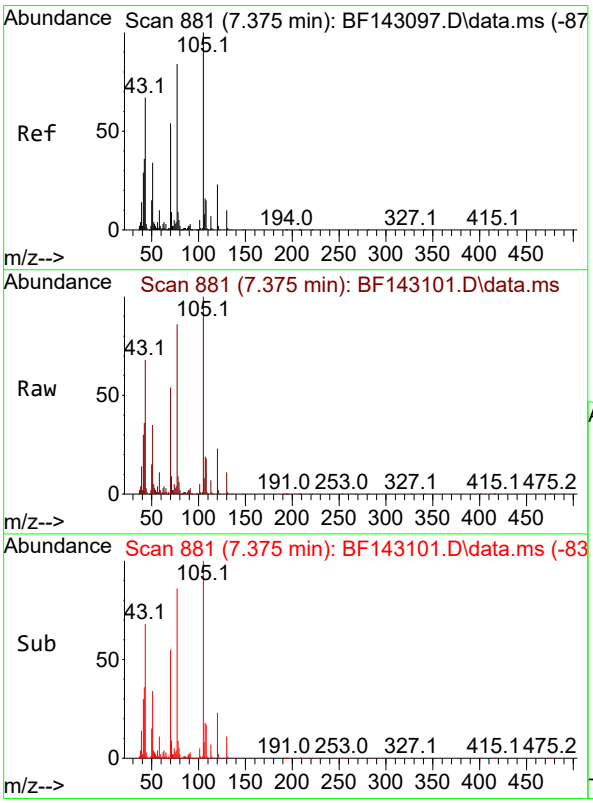
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	9.9	8.3	12.5
68	6.7	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

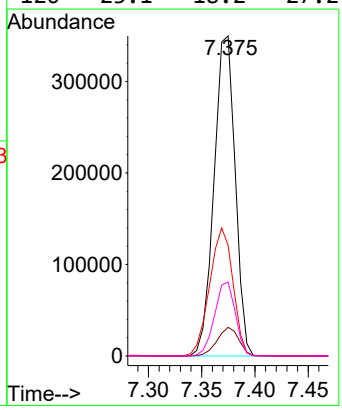
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

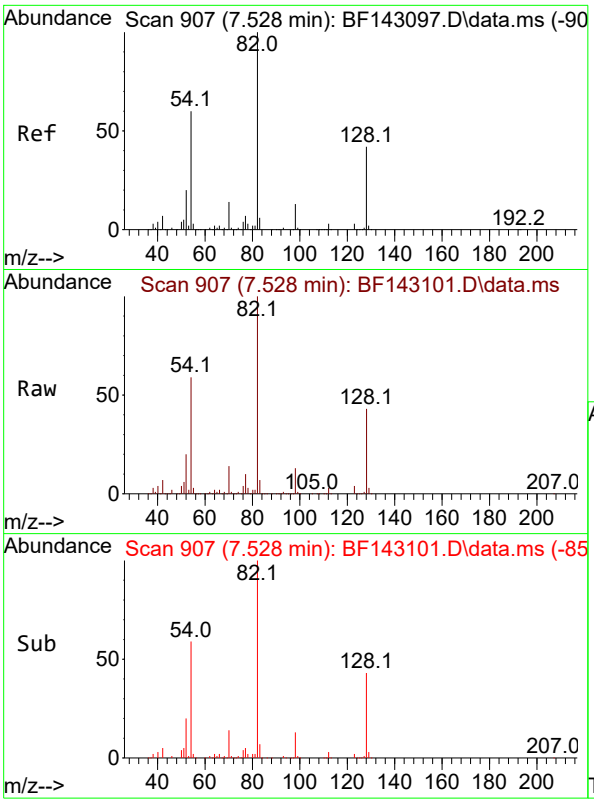


#22
Acetophenone
Concen: 40.351 ng
RT: 7.375 min Scan# 881
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:105 Resp: 482823

Ion	Ratio	Lower	Upper
105	100		
71	9.0	7.2	10.8
51	34.6	27.0	40.4
120	23.1	18.2	27.2

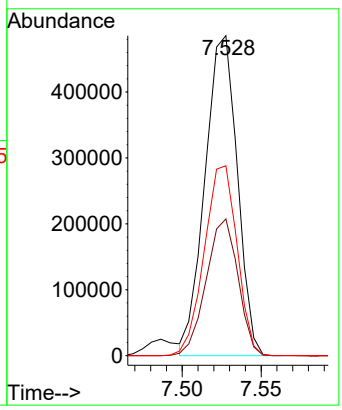




#23
Nitrobenzene-d5
Concen: 78.289 ng m
RT: 7.528 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 82 Resp: 69273

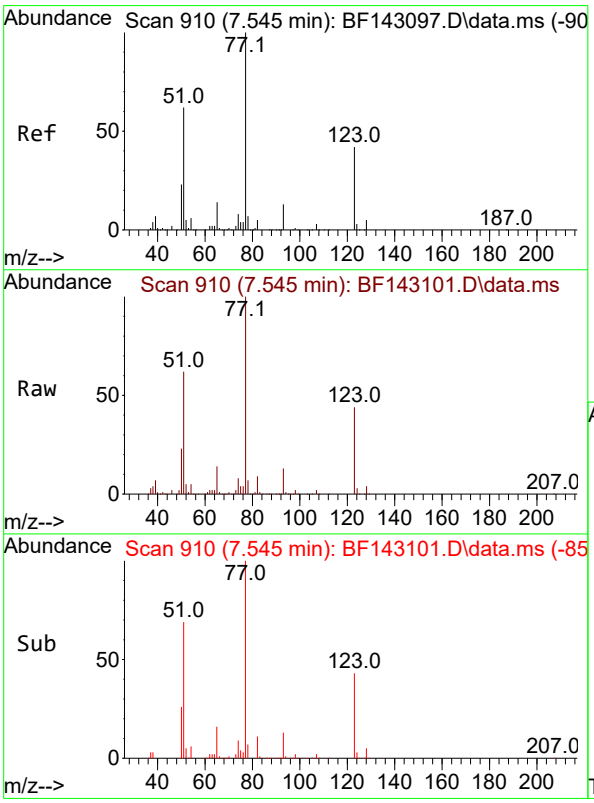
Ion	Ratio	Lower	Upper
82	100		
128	42.8	33.3	49.9
54	59.4	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

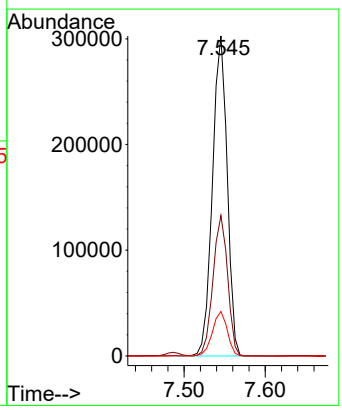
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

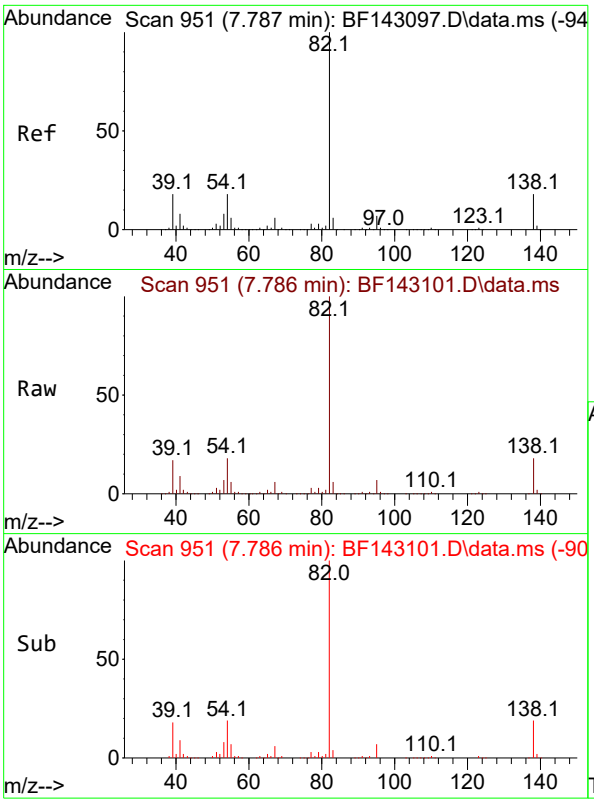


#24
Nitrobenzene
Concen: 44.647 ng
RT: 7.545 min Scan# 910
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 77 Resp: 381374

Ion	Ratio	Lower	Upper
77	100		
123	43.9	34.5	51.7
65	13.9	11.3	16.9

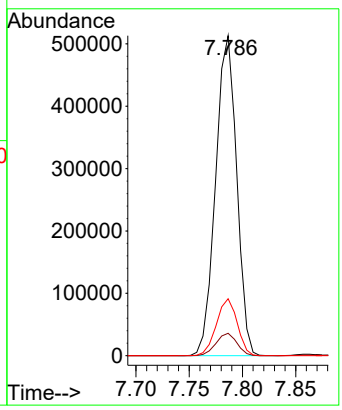




#25
Isophorone
Concen: 41.188 ng
RT: 7.786 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 82 Resp: 70442

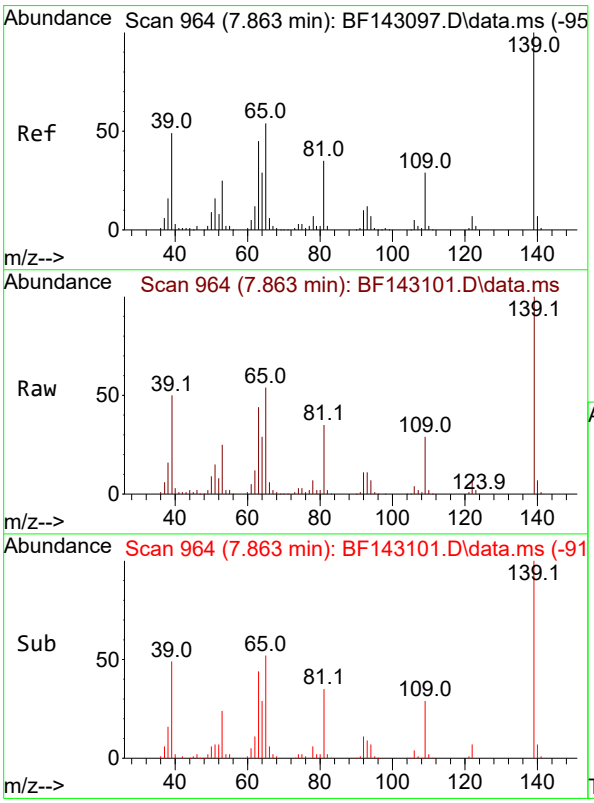
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	17.8	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

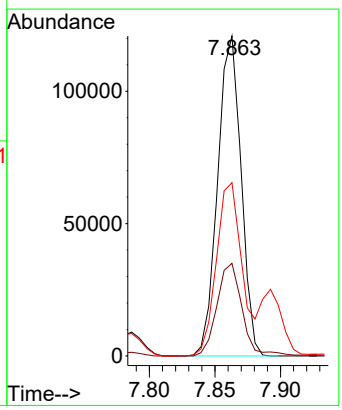
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

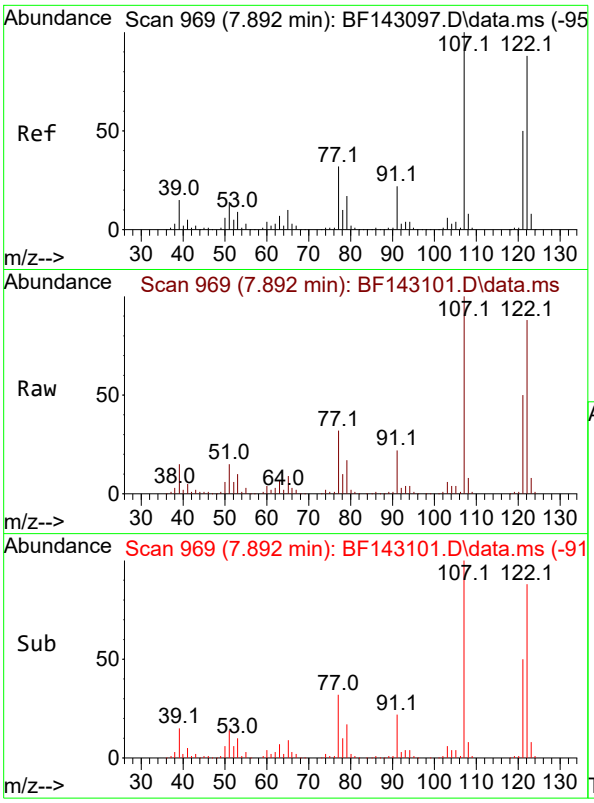


#26
2-Nitrophenol
Concen: 44.317 ng
RT: 7.863 min Scan# 964
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:139 Resp: 150156

Ion	Ratio	Lower	Upper
139	100		
109	29.0	23.4	35.0
65	54.1	43.4	65.2

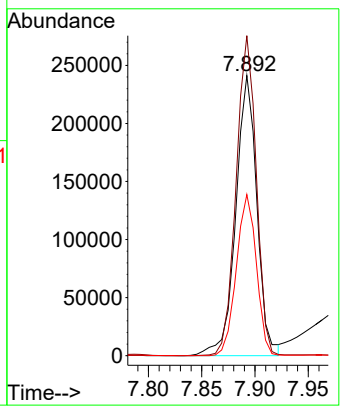




#27
2,4-Dimethylphenol
Concen: 42.064 ng
RT: 7.892 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:122 Resp: 33389

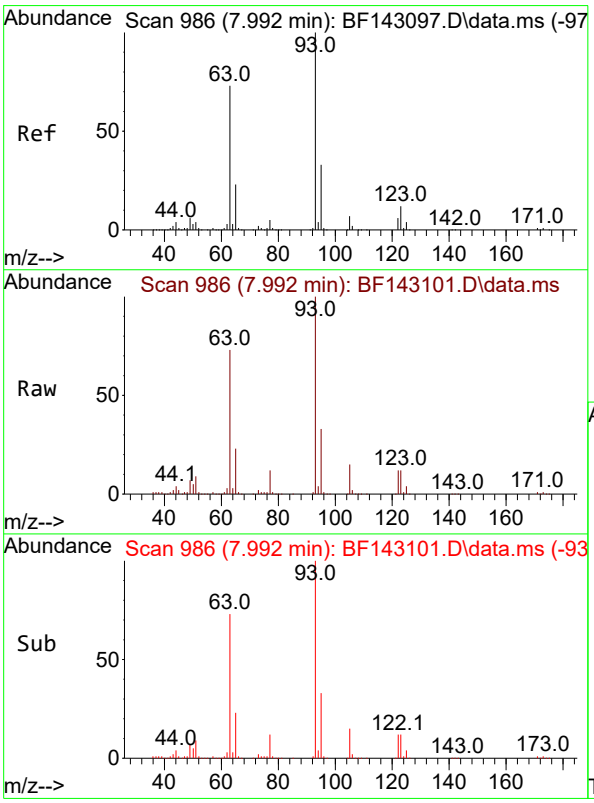
Ion	Ratio	Lower	Upper
122	100		
107	114.2	91.3	136.9
121	57.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

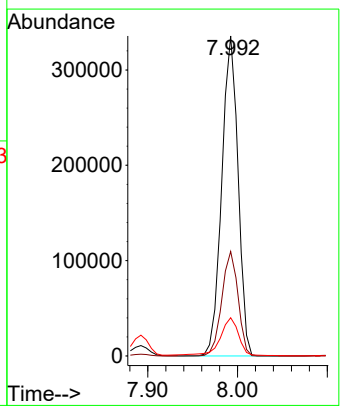
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

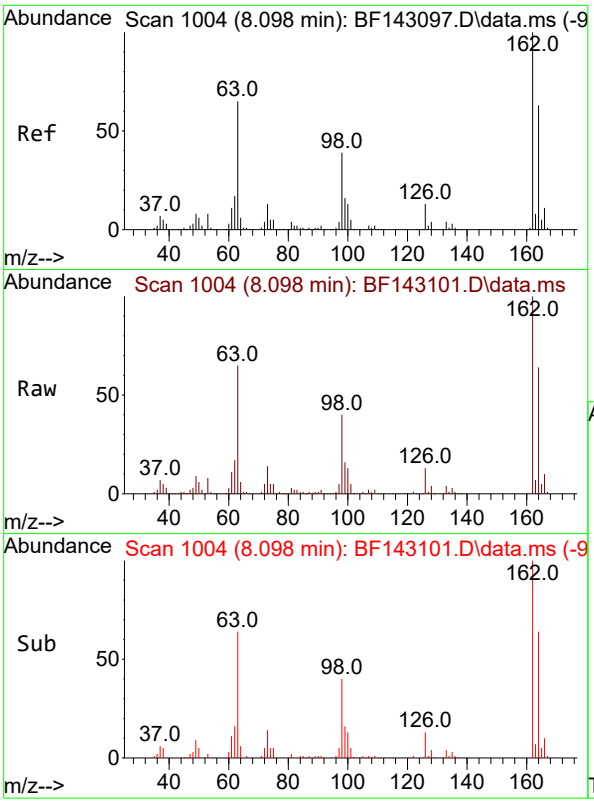


#28
bis(2-Chloroethoxy)methane
Concen: 40.789 ng
RT: 7.992 min Scan# 986
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 93 Resp: 423022

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	11.9	9.6	14.4

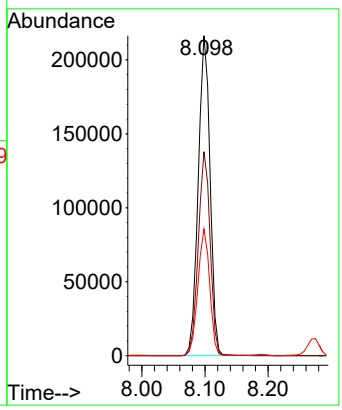




#29
2,4-Dichlorophenol
Concen: 43.580 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:162 Resp: 28301

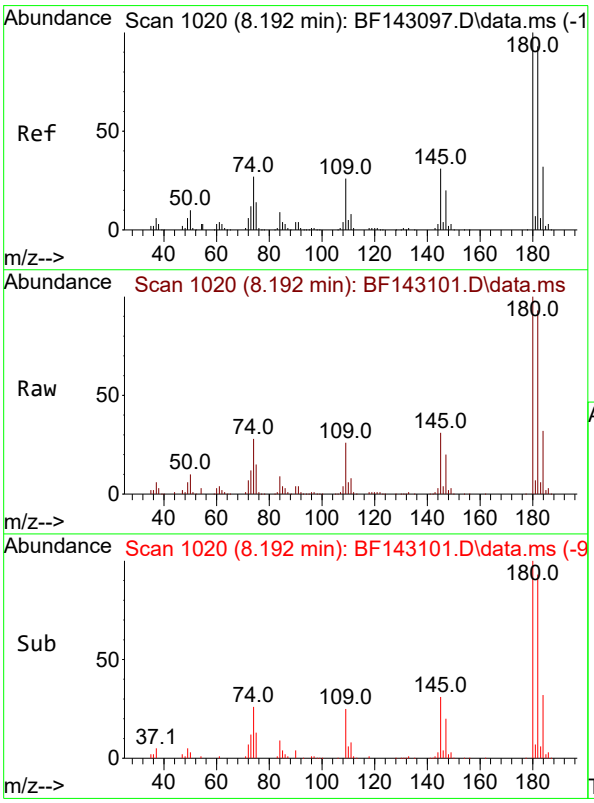
Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.1	83.1
98	39.6	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

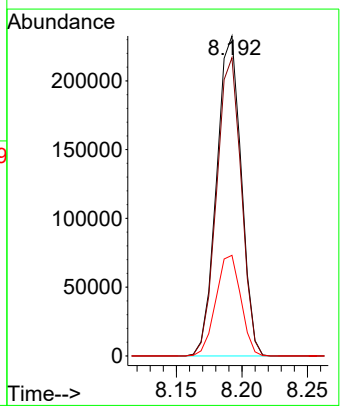
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

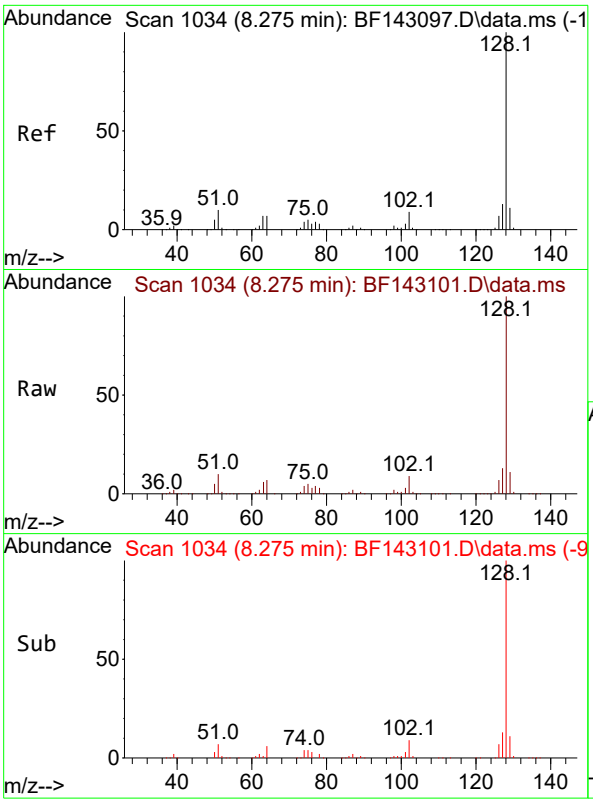


#30
1,2,4-Trichlorobenzene
Concen: 41.194 ng
RT: 8.192 min Scan# 1020
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:180 Resp: 303602

Ion	Ratio	Lower	Upper
180	100		
182	93.2	74.7	112.1
145	31.4	24.5	36.7

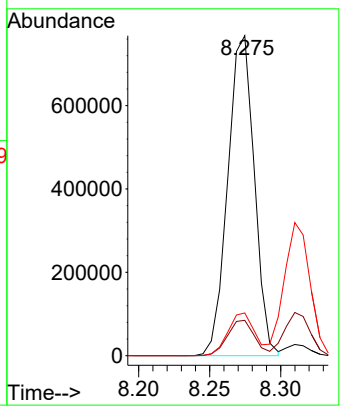




#31
Naphthalene
Concen: 40.543 ng
RT: 8.275 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:128 Resp: 99936

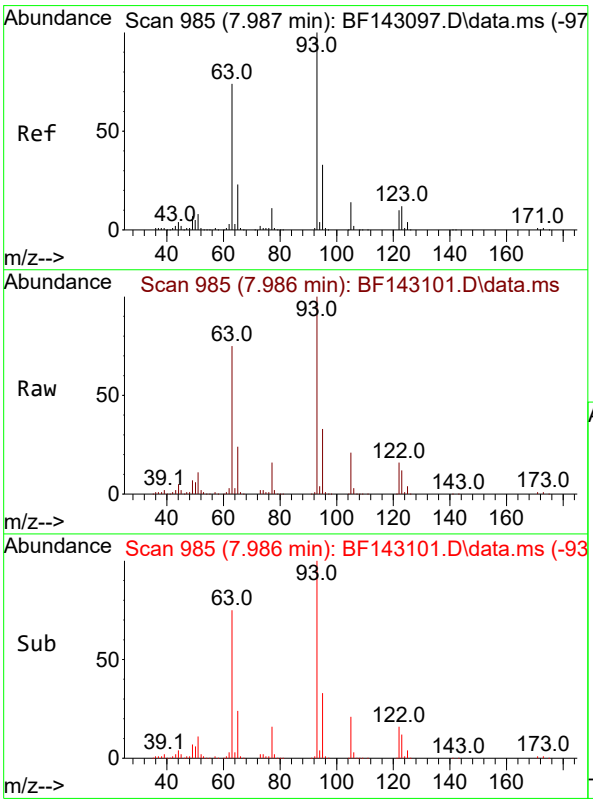
Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.4
127	13.3	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

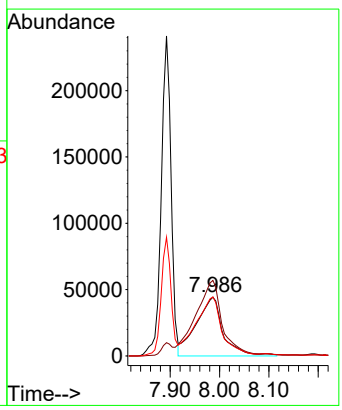
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

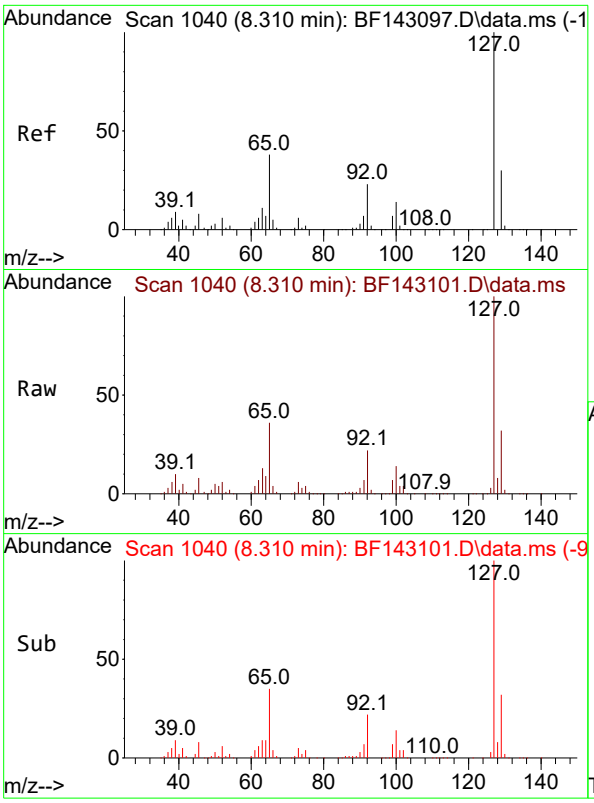


#32
Benzoic acid
Concen: 43.449 ng m
RT: 7.986 min Scan# 985
Delta R.T. -0.001 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:122 Resp: 169020

Ion	Ratio	Lower	Upper
122	100		
105	128.4	105.4	145.4
77	100.3	78.6	118.6

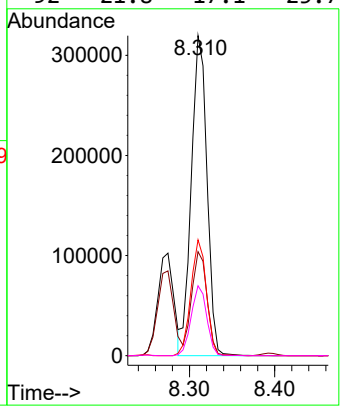




#33
4-Chloroaniline
Concen: 41.236 ng
RT: 8.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:127 Resp: 40874

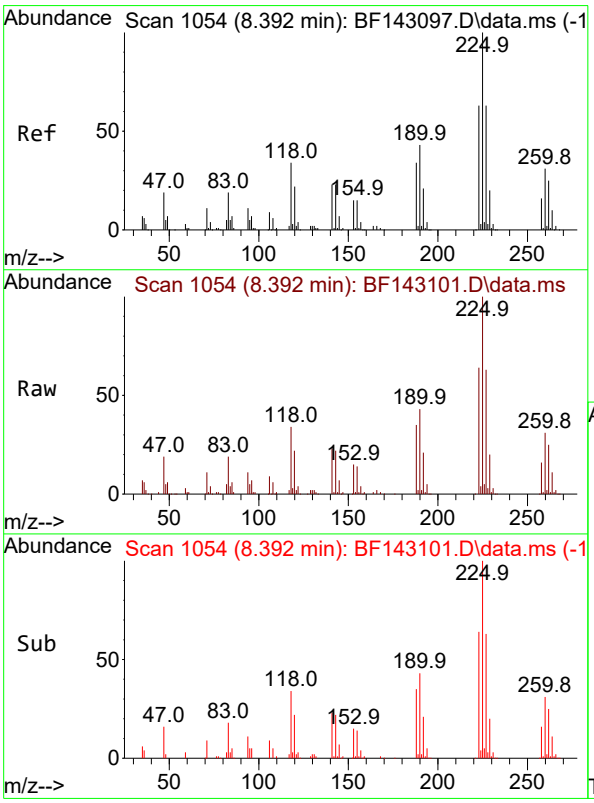
Ion	Ratio	Lower	Upper
127	100		
129	32.5	26.2	39.4
65	36.2	28.6	42.8
92	21.8	17.1	25.7



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

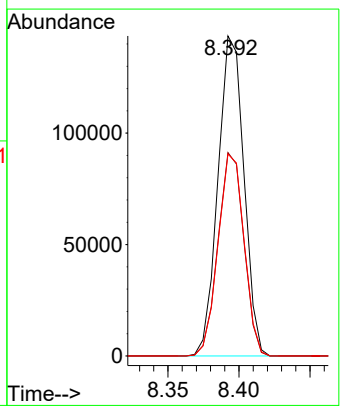
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

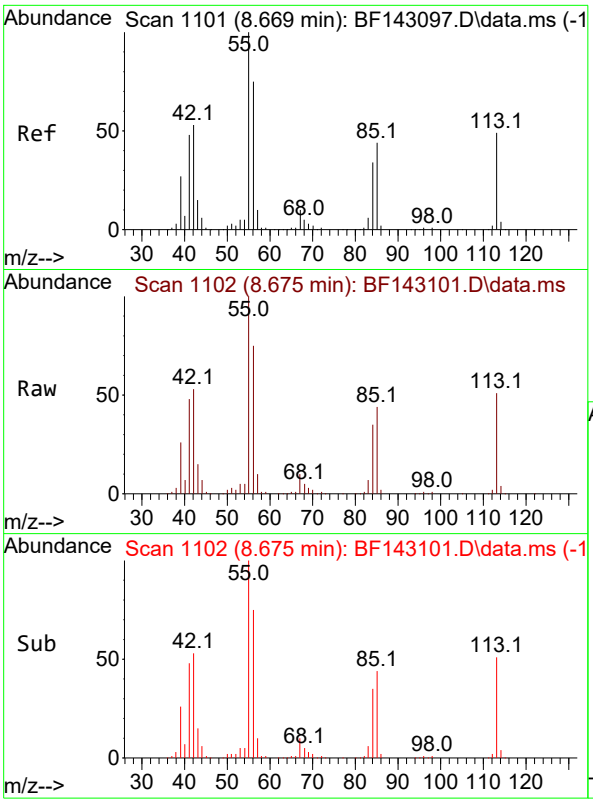


#34
Hexachlorobutadiene
Concen: 41.324 ng
RT: 8.392 min Scan# 1054
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:225 Resp: 182140

Ion	Ratio	Lower	Upper
225	100		
223	63.6	50.3	75.5
227	63.1	50.1	75.1

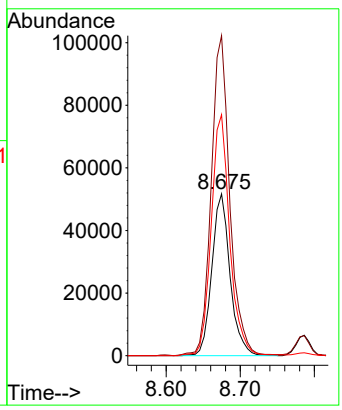




#35
Caprolactam
Concen: 43.536 ng
RT: 8.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:113 Resp: 8828

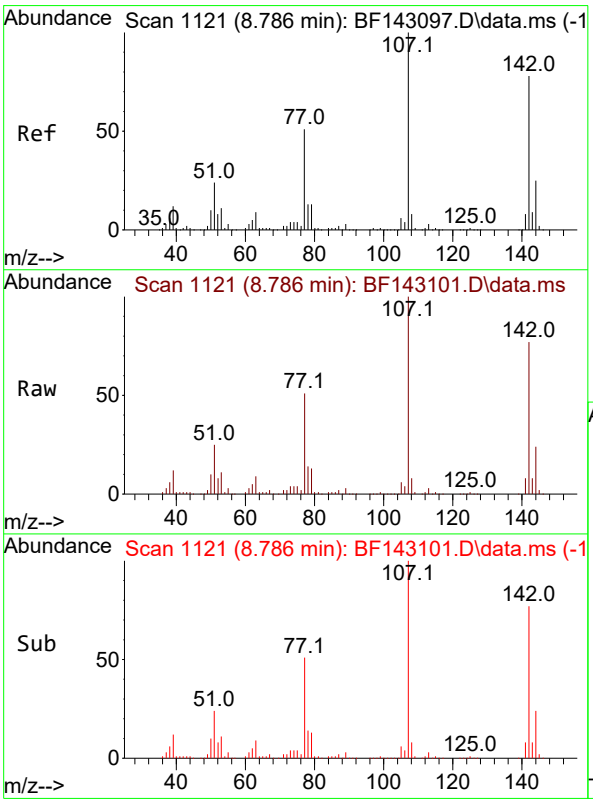
Ion	Ratio	Lower	Upper
113	100		
55	197.8	186.2	226.2
56	148.9	134.1	174.1



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations
APPROVED

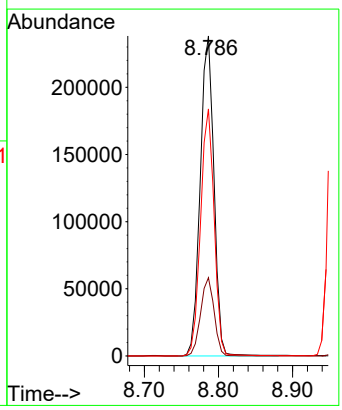
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

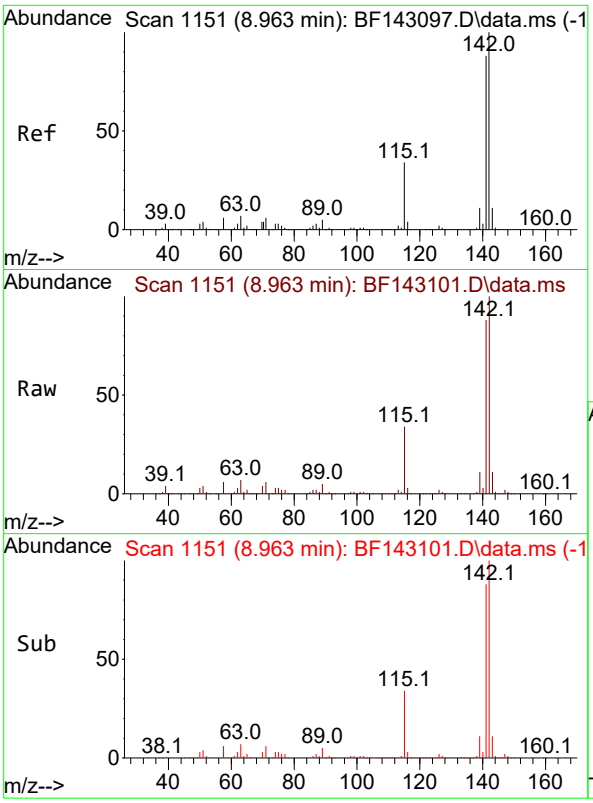


#36
4-Chloro-3-methylphenol
Concen: 42.387 ng
RT: 8.786 min Scan# 1121
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:107 Resp: 306624

Ion	Ratio	Lower	Upper
107	100		
144	24.4	20.2	30.2
142	77.2	62.4	93.6

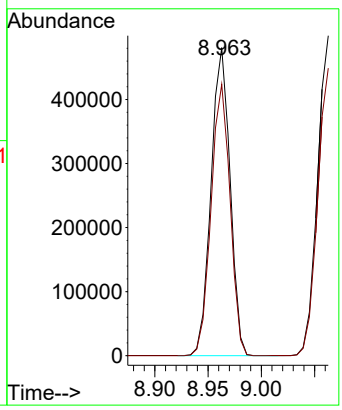




#37
2-Methylnaphthalene
Concen: 40.654 ng
RT: 8.963 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:142 Resp: 59781

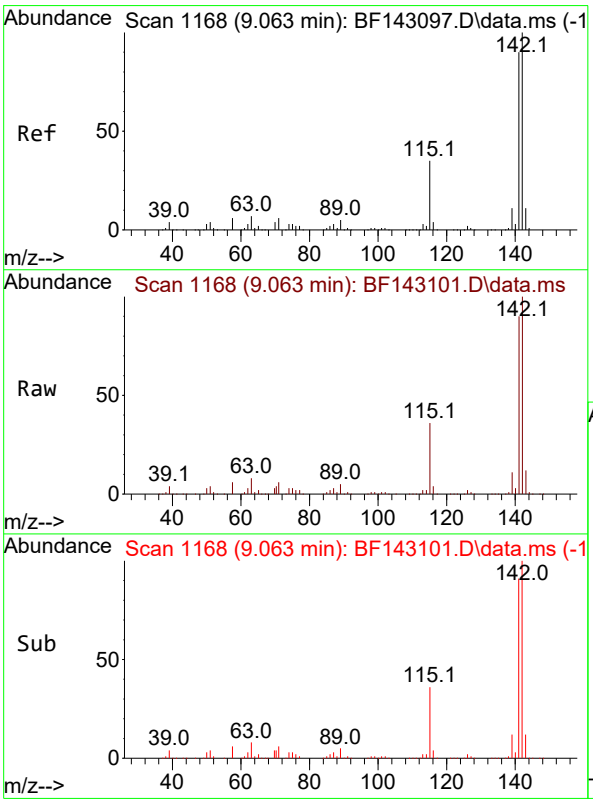
Ion	Ratio	Lower	Upper
142	100		
141	88.1	70.2	105.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

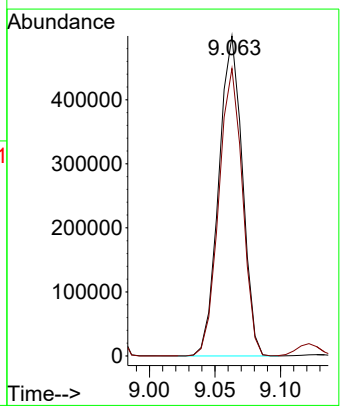
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

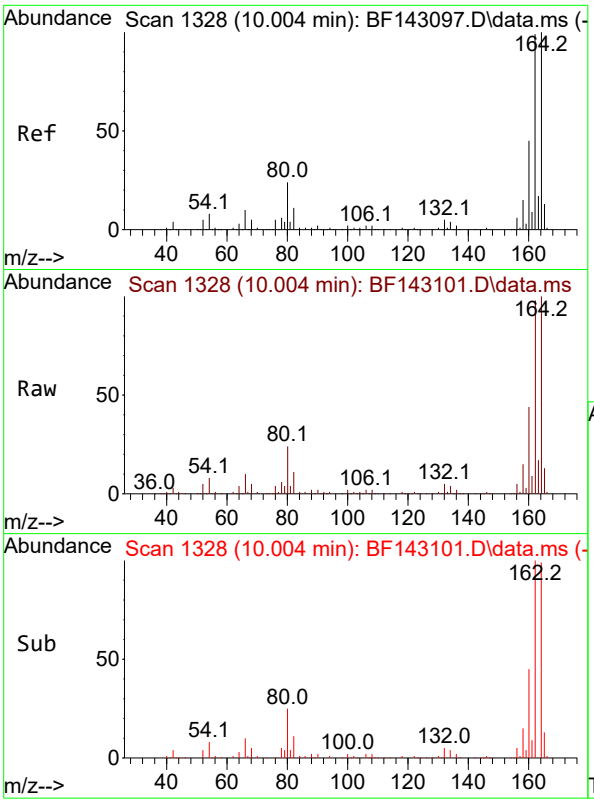


#38
1-Methylnaphthalene
Concen: 40.922 ng
RT: 9.063 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:142 Resp: 624130

Ion	Ratio	Lower	Upper
142	100		
141	89.9	72.2	108.4

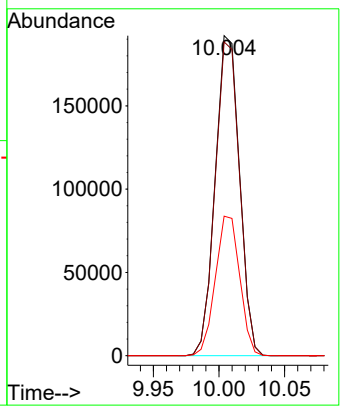




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:164 Resp: 24822

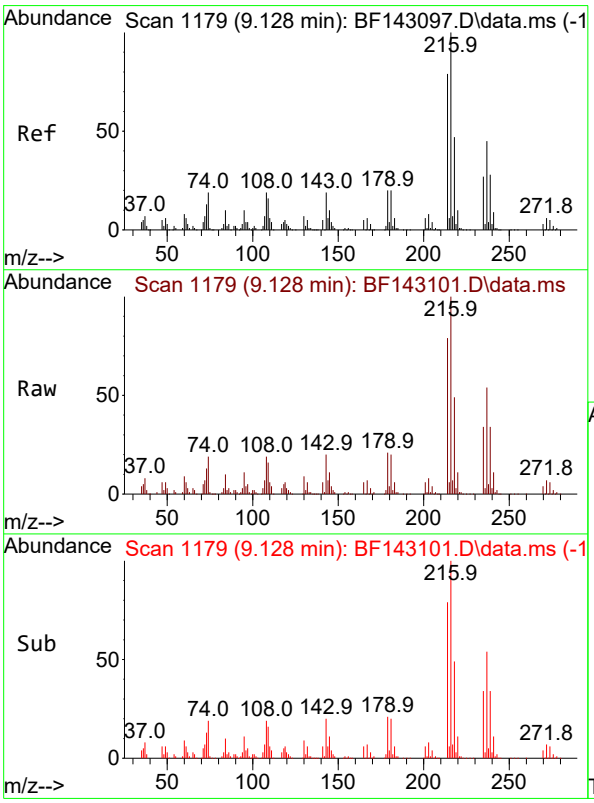
Ion	Ratio	Lower	Upper
164	100		
162	98.1	79.0	118.6
160	43.6	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

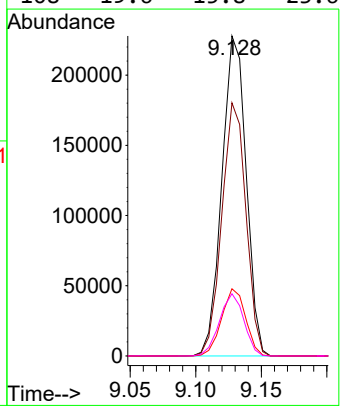
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

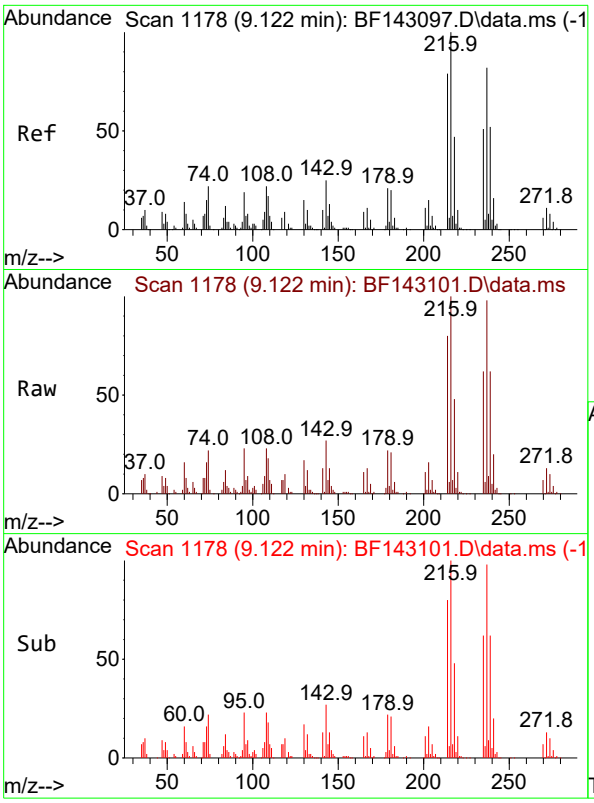


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.531 ng
RT: 9.128 min Scan# 1179
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:216 Resp: 293187

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.6	94.0
179	20.8	16.2	24.2
108	19.6	15.8	23.6





#41
Hexachlorocyclopentadiene
Concen: 45.086 ng
RT: 9.122 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

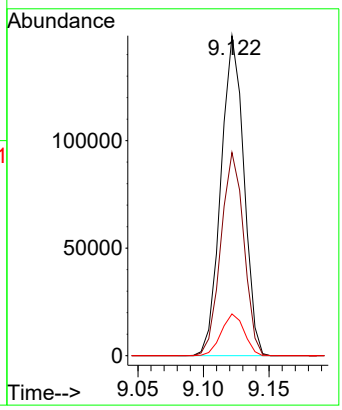
Tgt Ion:237 Resp: 18081

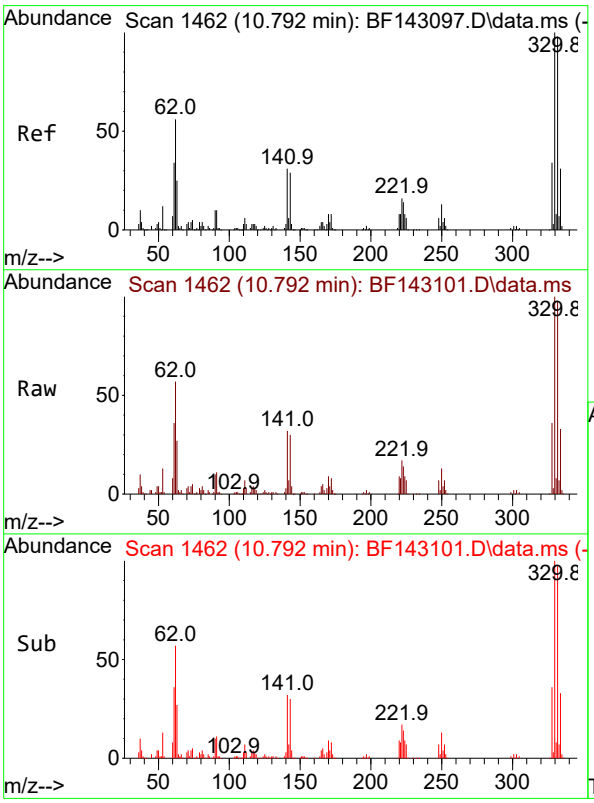
Ion	Ratio	Lower	Upper
237	100		
235	63.5	41.6	81.6
272	13.0	0.0	32.9

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

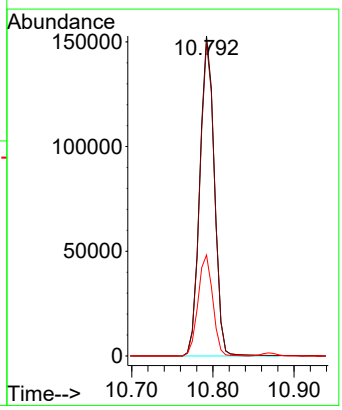


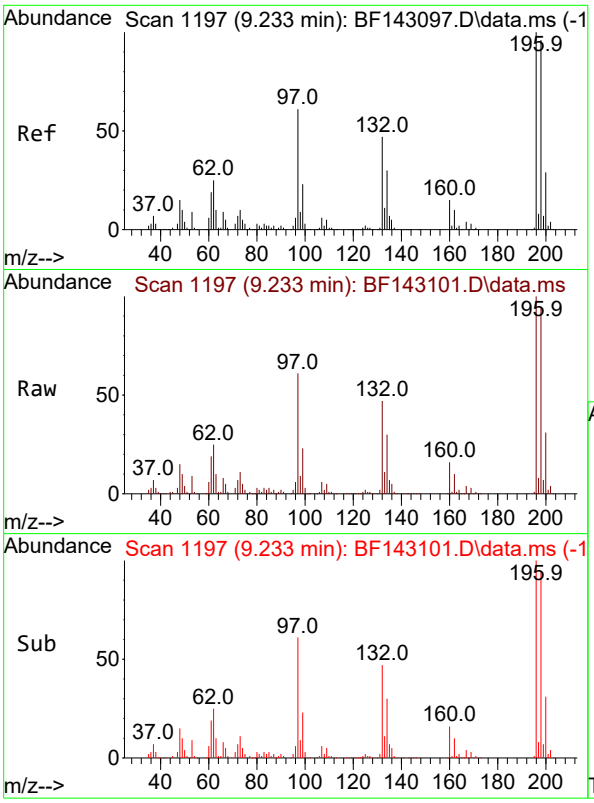


#42
2,4,6-Tribromophenol
Concen: 85.971 ng
RT: 10.792 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:330 Resp: 190277

Ion	Ratio	Lower	Upper
330	100		
332	98.2	77.9	116.9
141	31.8	25.9	38.9

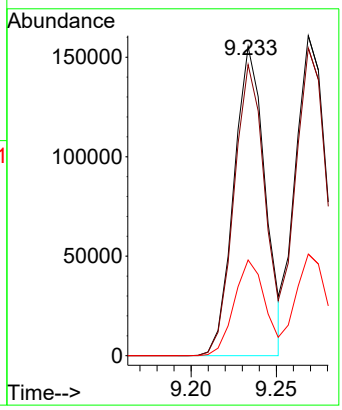




#43
2,4,6-Trichlorophenol
Concen: 43.955 ng
RT: 9.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:196 Resp: 19756

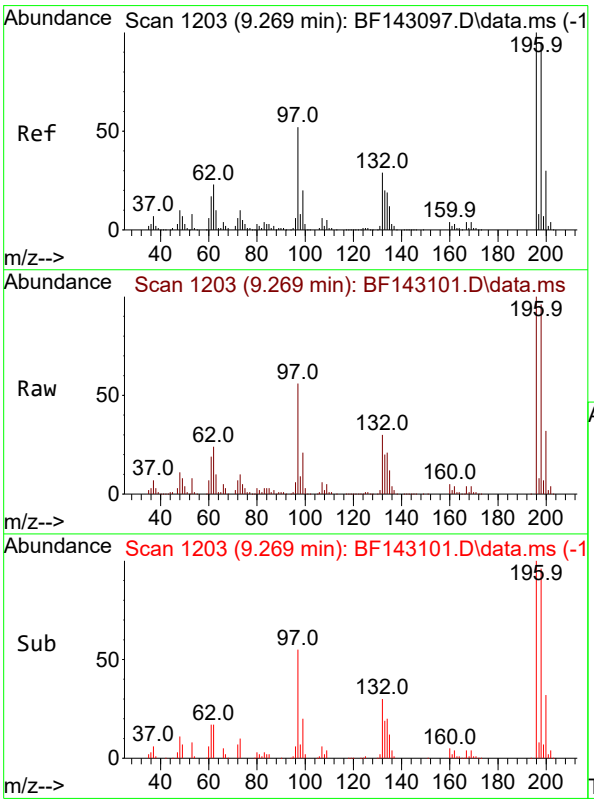
Ion	Ratio	Lower	Upper
196	100		
198	94.2	76.9	115.3
200	30.9	23.5	35.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

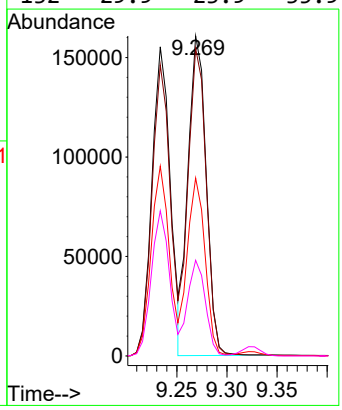
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

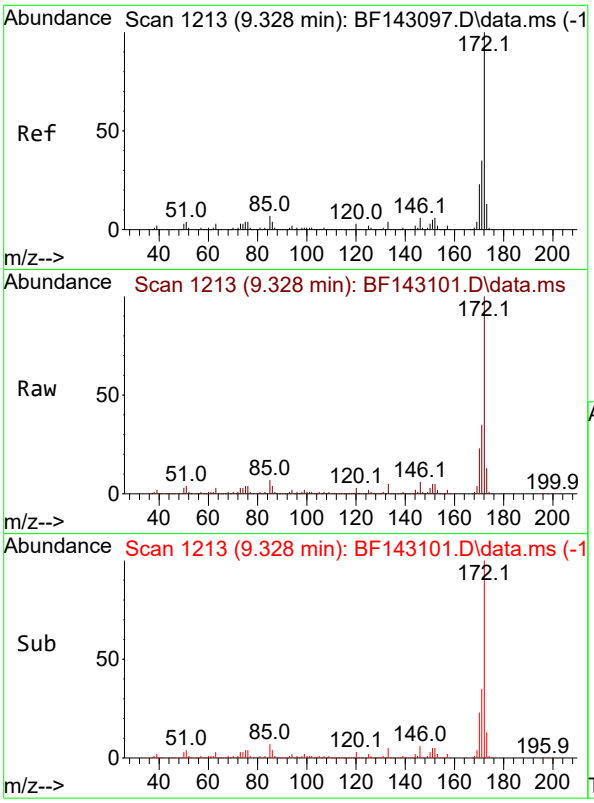


#44
2,4,5-Trichlorophenol
Concen: 43.001 ng
RT: 9.269 min Scan# 1203
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:196 Resp: 202658

Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.4	114.6
97	55.6	42.4	63.6
132	29.9	23.9	35.9

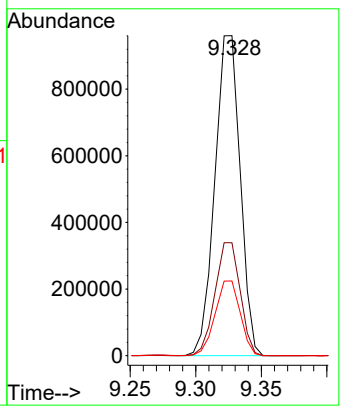




#45
2-Fluorobiphenyl
Concen: 69.090 ng
RT: 9.328 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:172 Resp: 129014

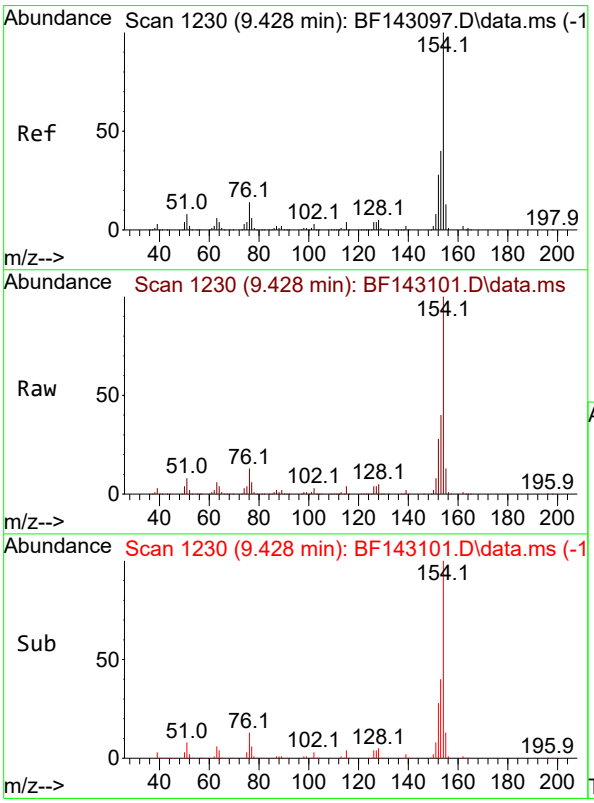
Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.2	42.4
170	23.4	18.6	28.0



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

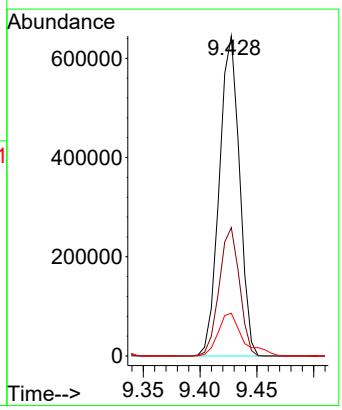
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

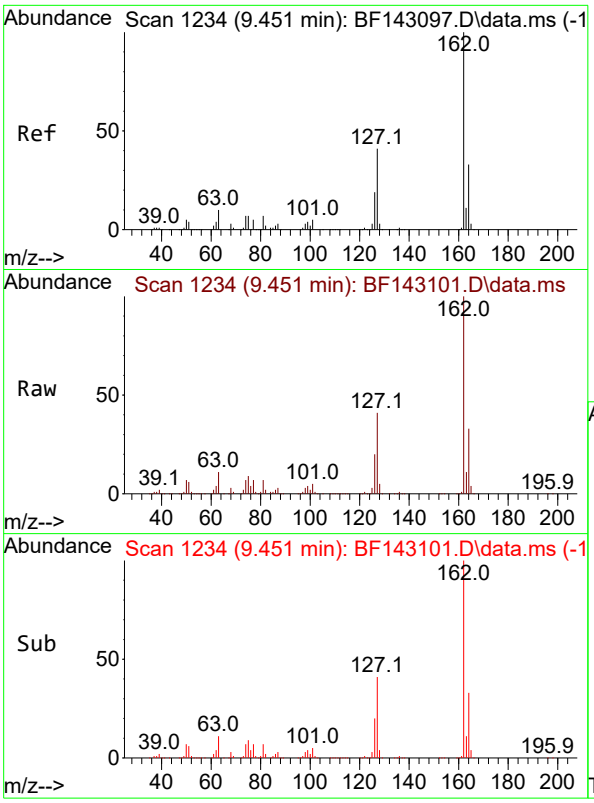


#46
1,1'-Biphenyl
Concen: 40.387 ng
RT: 9.428 min Scan# 1230
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:154 Resp: 799467

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.1	60.1
76	13.4	0.0	33.7

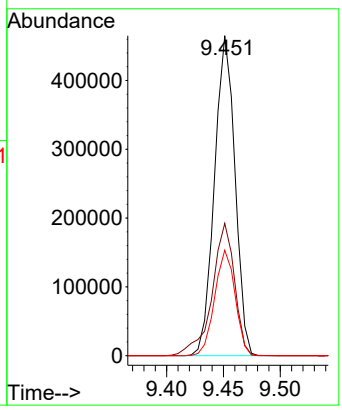




#47
2-Chloronaphthalene
Concen: 40.207 ng
RT: 9.451 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:162 Resp: 58468

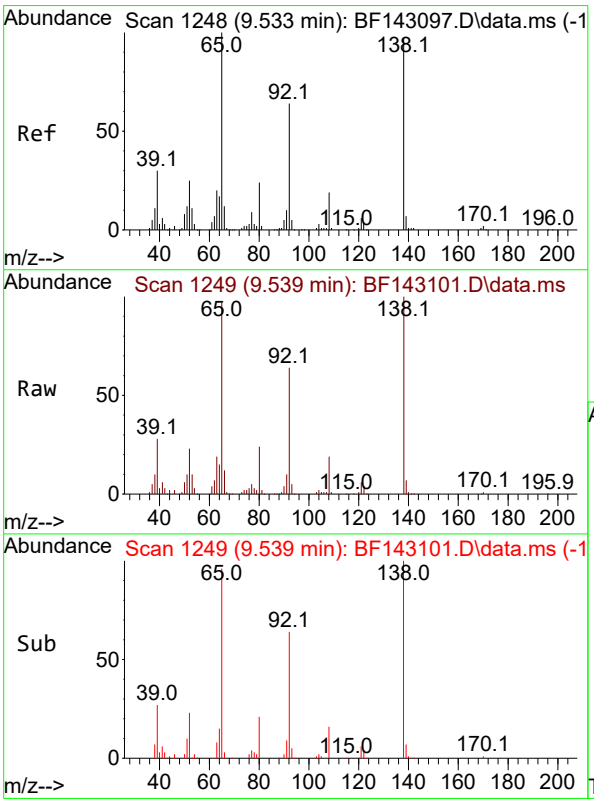
Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.0	49.6
164	33.0	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

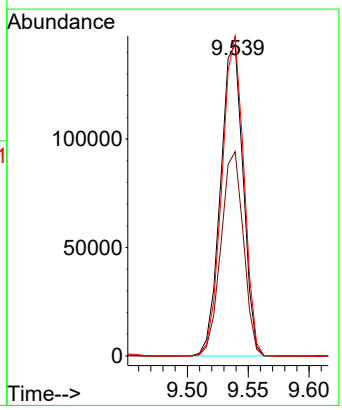
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

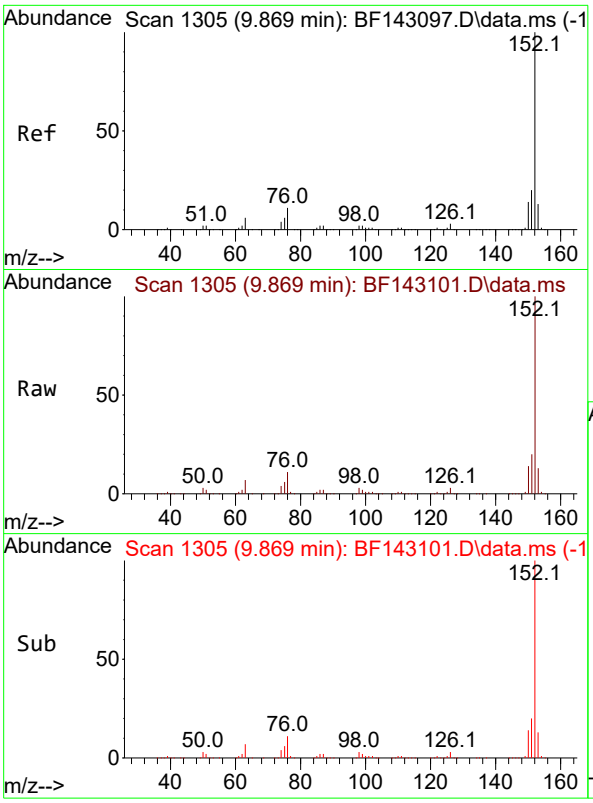


#48
2-Nitroaniline
Concen: 43.148 ng
RT: 9.539 min Scan# 1249
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 65 Resp: 185847

Ion	Ratio	Lower	Upper
65	100		
92	65.6	51.3	76.9
138	102.7	77.8	116.6

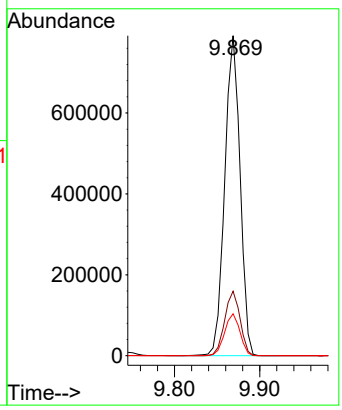




#49
Acenaphthylene
Concen: 40.736 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:152 Resp: 98710

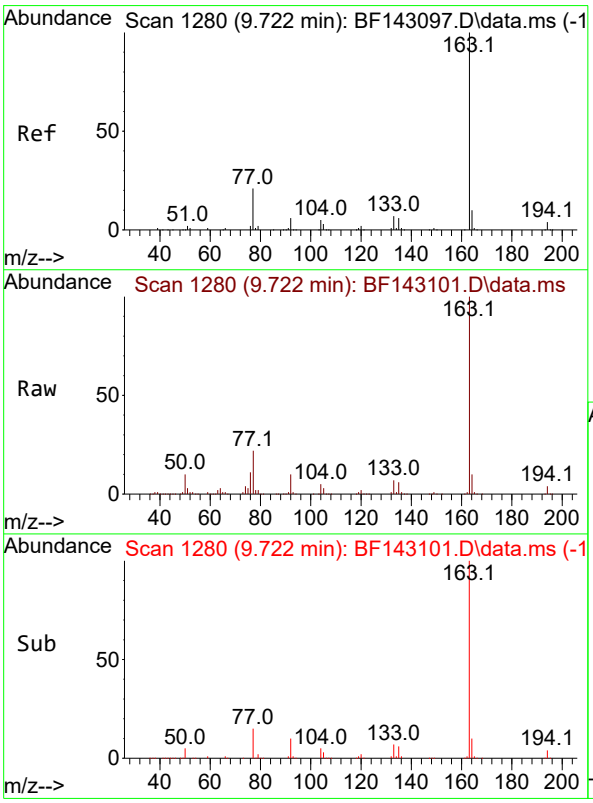
Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.1	10.4	15.6



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

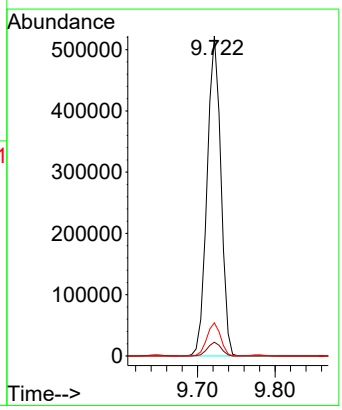
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

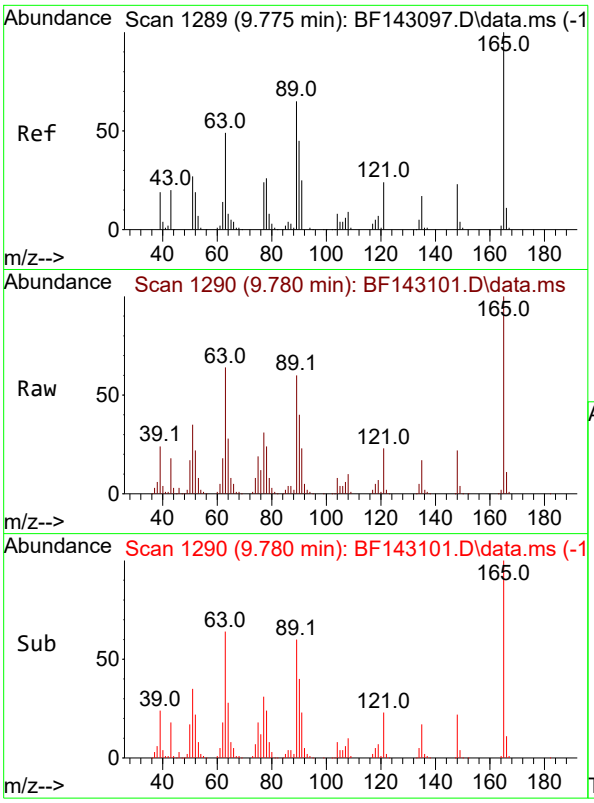


#50
Dimethylphthalate
Concen: 41.279 ng
RT: 9.722 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:163 Resp: 644618

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.3	8.2	12.2

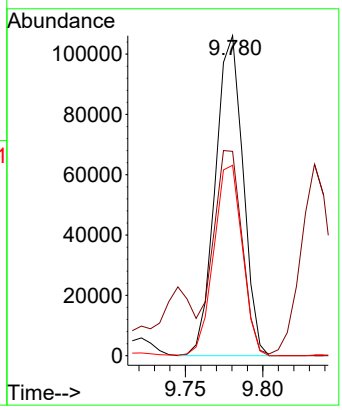




#51
2,6-Dinitrotoluene
Concen: 43.156 ng
RT: 9.780 min Scan# 1
Delta R.T. 0.005 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:165 Resp: 13224

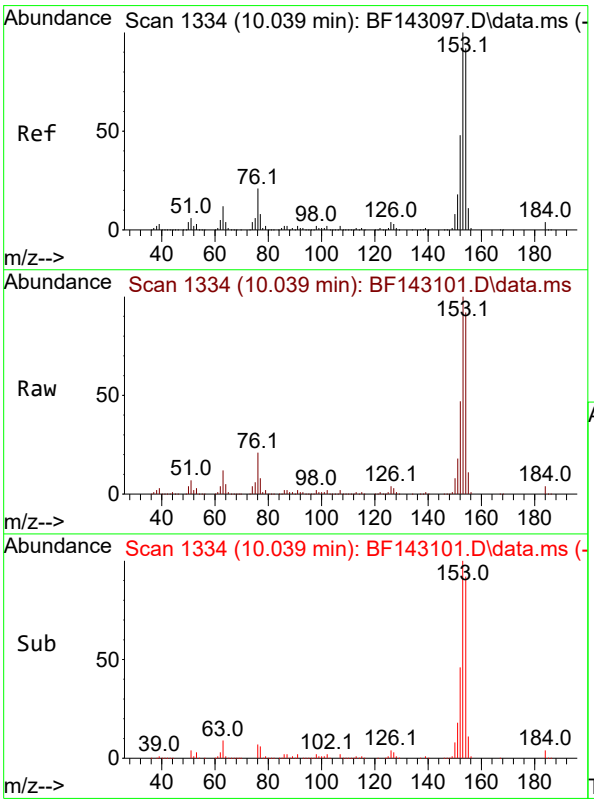
Ion	Ratio	Lower	Upper
165	100		
63	63.9	57.4	86.0
89	59.5	51.8	77.8



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

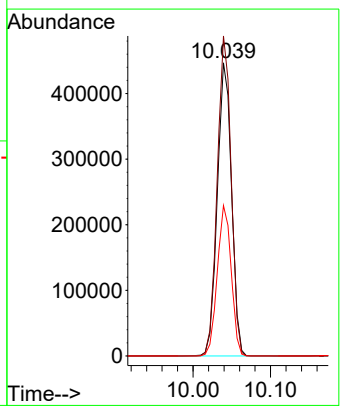
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

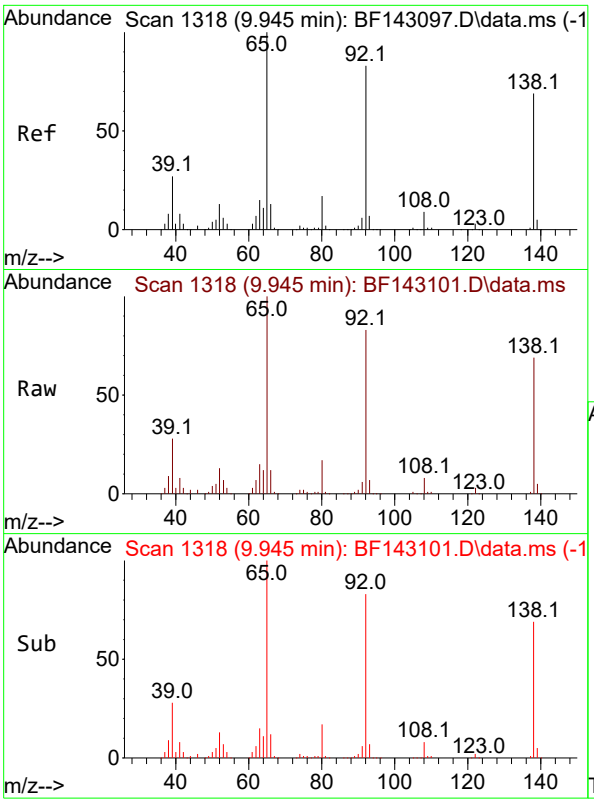


#52
Acenaphthene
Concen: 39.982 ng
RT: 10.039 min Scan# 1334
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:154 Resp: 571724

Ion	Ratio	Lower	Upper
154	100		
153	109.2	86.7	130.1
152	51.3	41.4	62.2





#53
3-Nitroaniline
Concen: 47.707 ng
RT: 9.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

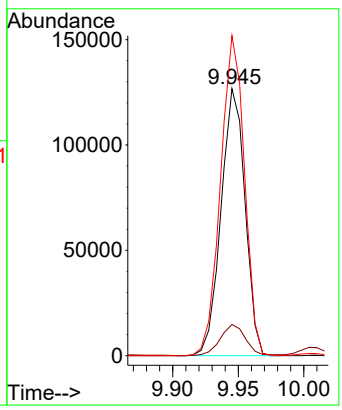
Tgt Ion:138 Resp: 16097

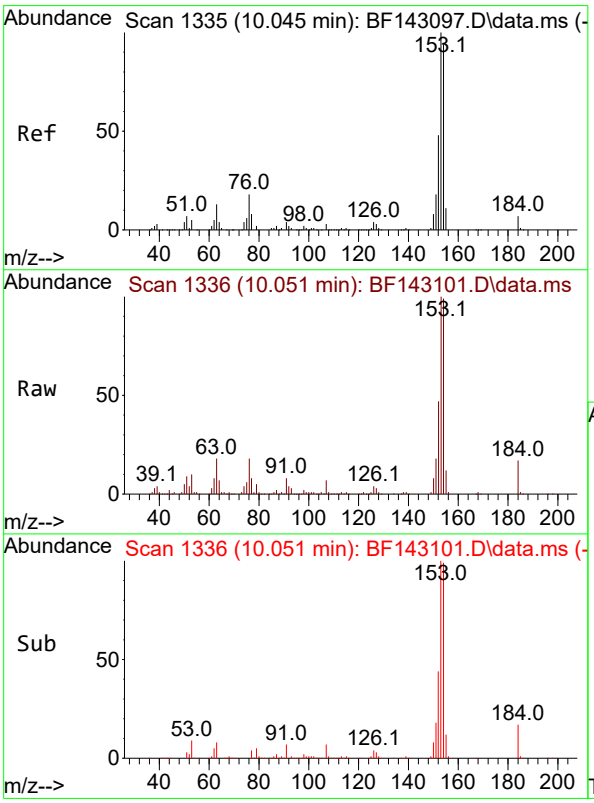
Ion	Ratio	Lower	Upper
138	100		
108	11.7	10.1	15.1
92	119.9	96.4	144.6

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

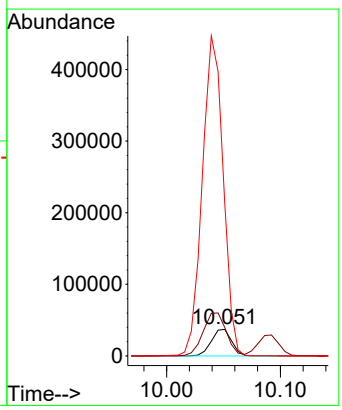


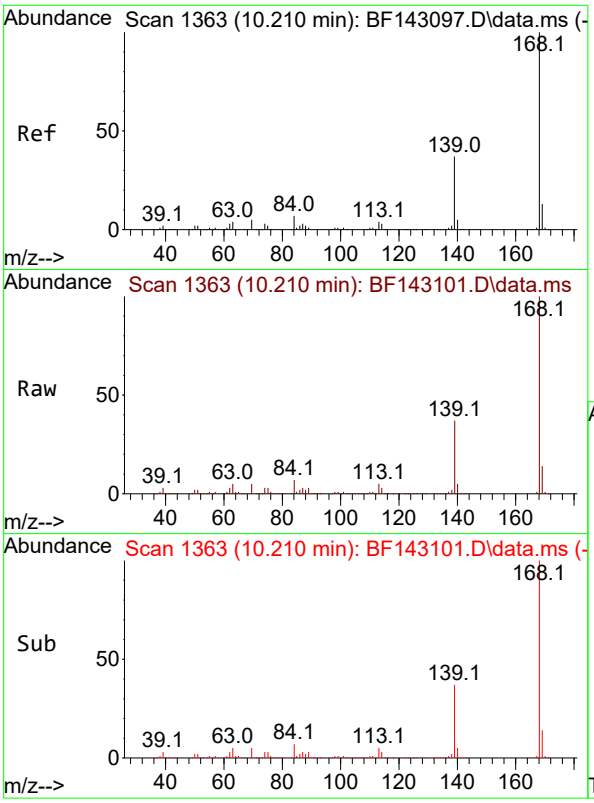


#54
2,4-Dinitrophenol
Concen: 47.113 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:184 Resp: 46465

Ion	Ratio	Lower	Upper
184	100		
63	106.9	149.3	223.9#
154	573.8	1048.0	1572.0#

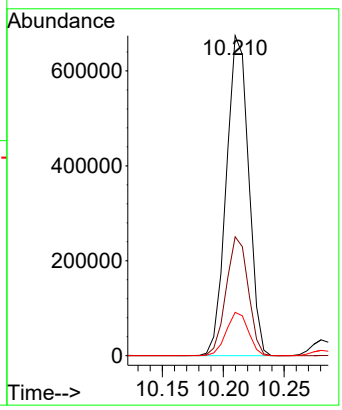




#55
Dibenzofuran
Concen: 40.300 ng
RT: 10.210 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:168 Resp: 85894

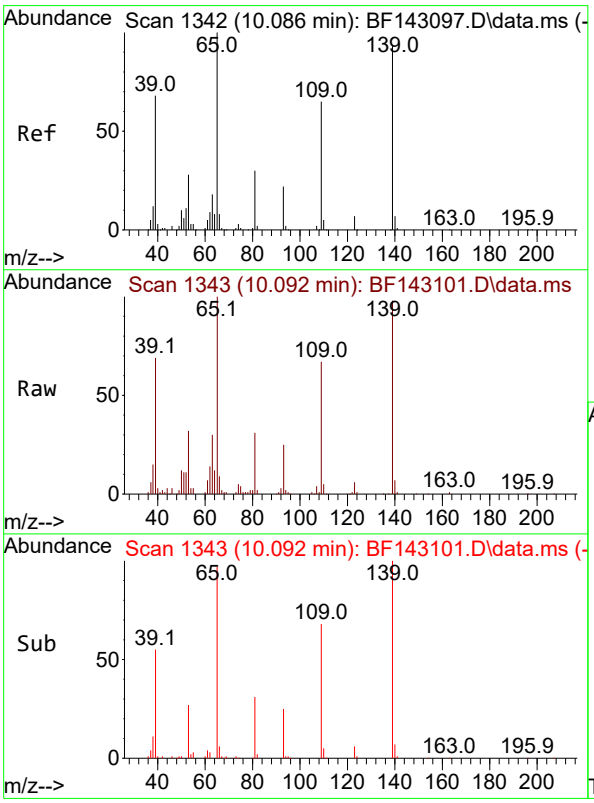
Ion	Ratio	Lower	Upper
168	100		
139	37.2	29.8	44.6
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

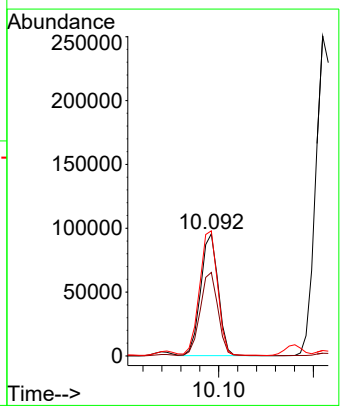
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

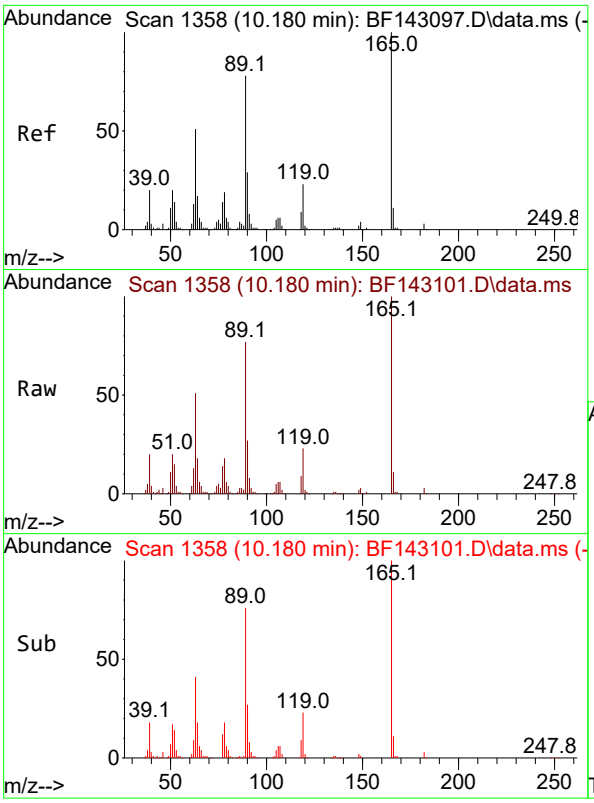


#56
4-Nitrophenol
Concen: 45.720 ng
RT: 10.092 min Scan# 1343
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:139 Resp: 122610

Ion	Ratio	Lower	Upper
139	100		
109	68.4	49.4	89.4
65	102.5	88.2	128.2

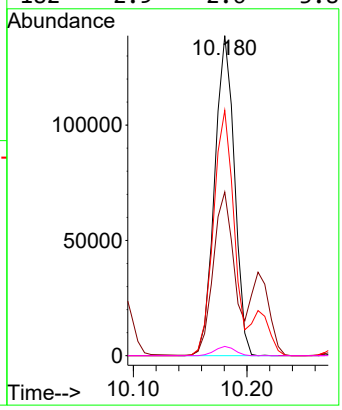




#57
2,4-Dinitrotoluene
Concen: 43.964 ng
RT: 10.180 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:165 Resp: 16822

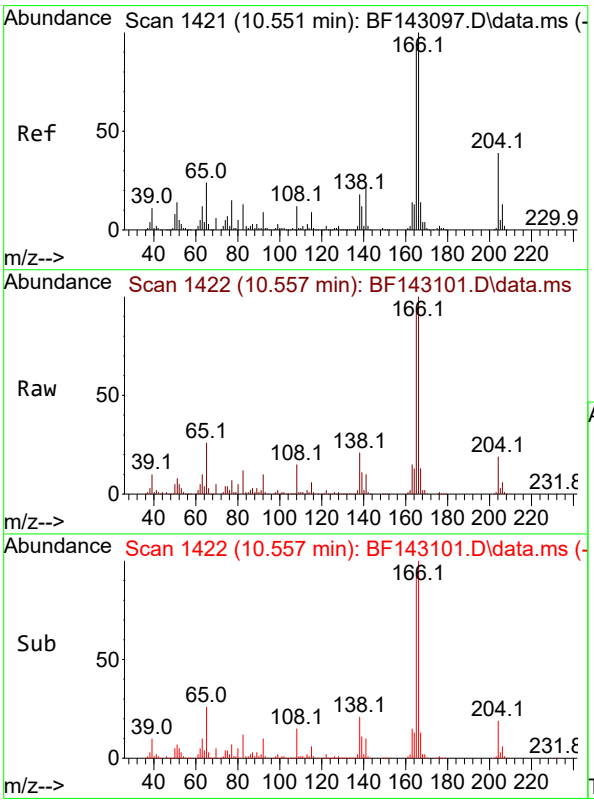
Ion	Ratio	Lower	Upper
165	100		
63	51.2	40.6	61.0
89	76.6	62.3	93.5
182	2.9	2.6	3.8



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

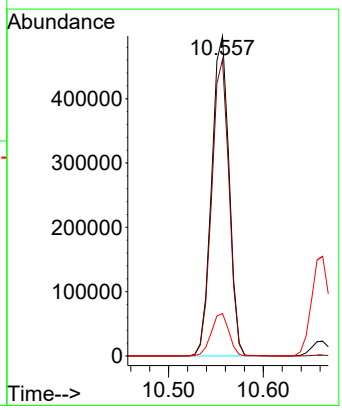
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

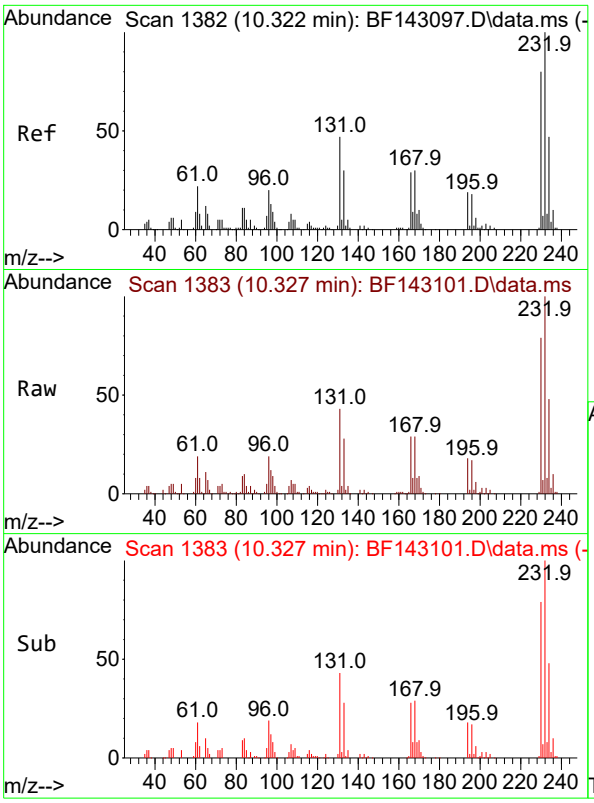


#58
Fluorene
Concen: 39.732 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:166 Resp: 634897

Ion	Ratio	Lower	Upper
166	100		
165	92.6	73.7	110.5
167	13.3	10.9	16.3

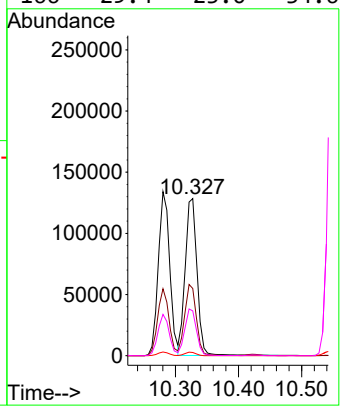




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.902 ng
RT: 10.327 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:232 Resp: 16817

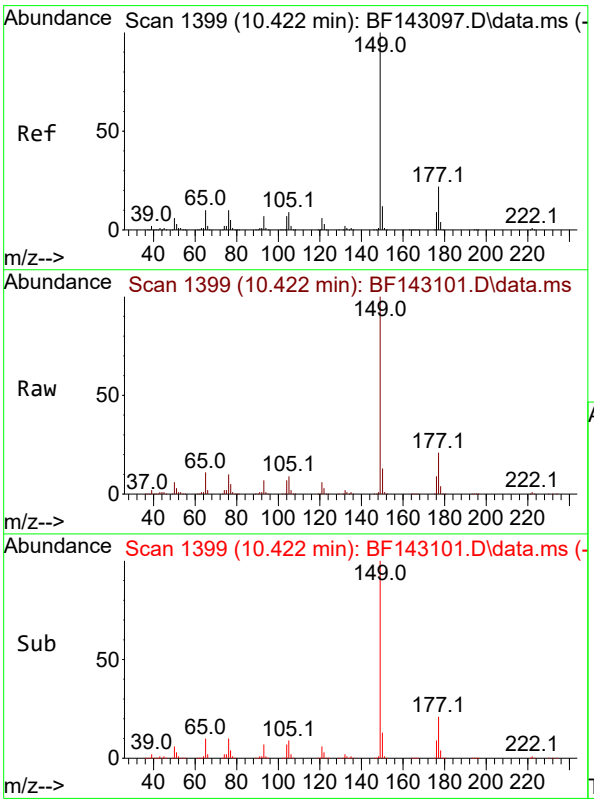
Ion	Ratio	Lower	Upper
232	100		
131	44.4	36.9	55.3
130	2.1	1.8	2.8
166	29.4	23.0	34.6



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

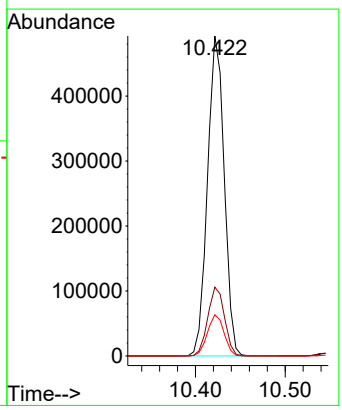
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

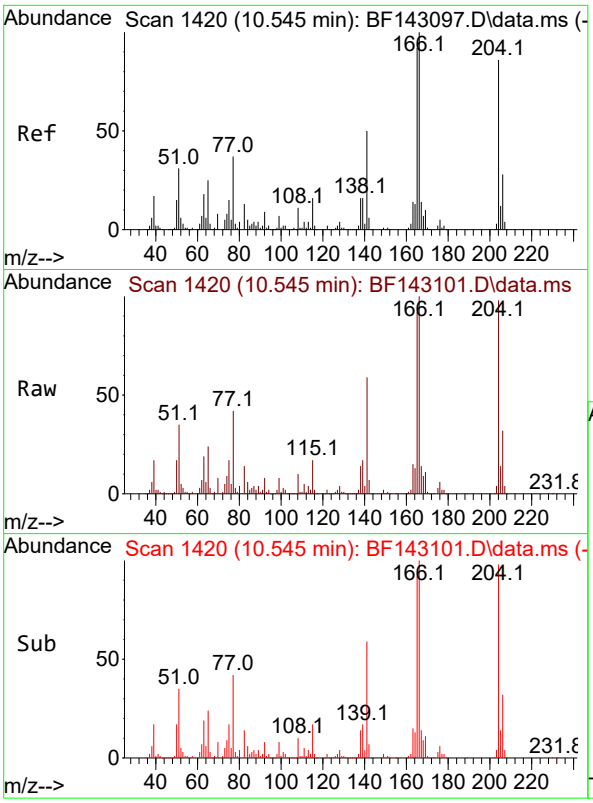


#60
Diethylphthalate
Concen: 42.297 ng
RT: 10.422 min Scan# 1399
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:149 Resp: 637247

Ion	Ratio	Lower	Upper
149	100		
177	21.5	17.3	25.9
150	12.9	9.9	14.9

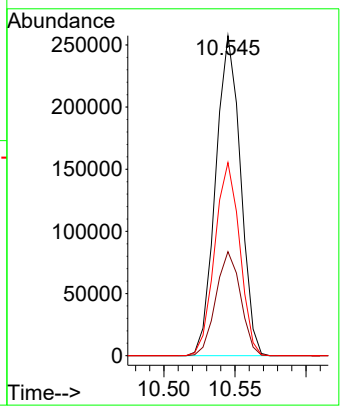




#61
4-Chlorophenyl-phenylether
Concen: 40.882 ng
RT: 10.545 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:204 Resp: 31311

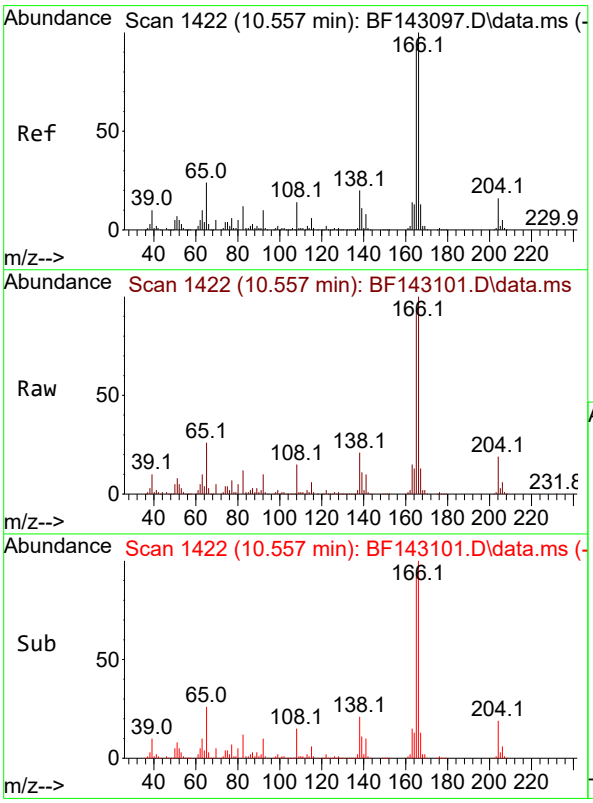
Ion	Ratio	Lower	Upper
204	100		
206	32.5	25.8	38.6
141	60.4	46.8	70.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

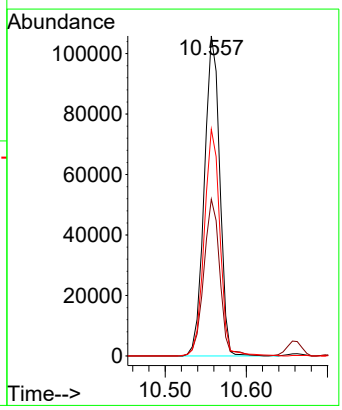
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

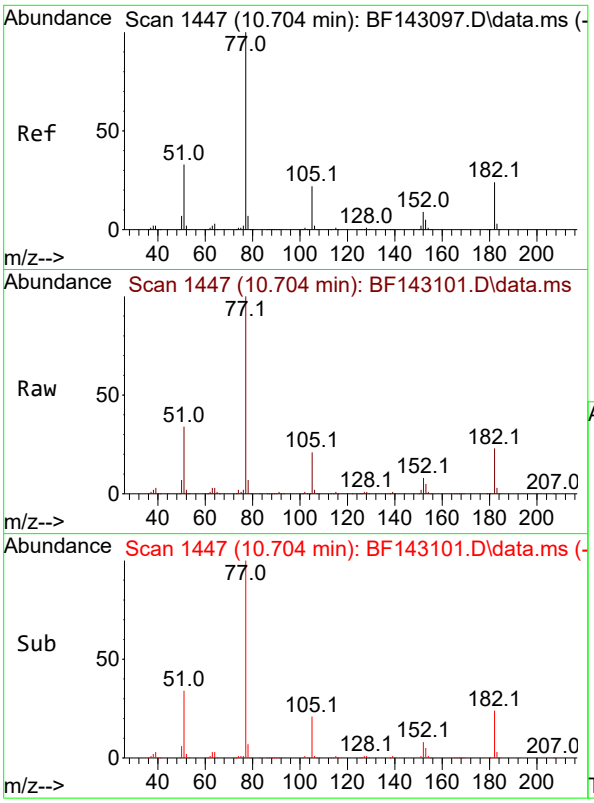


#62
4-Nitroaniline
Concen: 47.486 ng
RT: 10.557 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:138 Resp: 139342

Ion	Ratio	Lower	Upper
138	100		
92	49.0	30.4	70.4
108	70.8	49.5	89.5

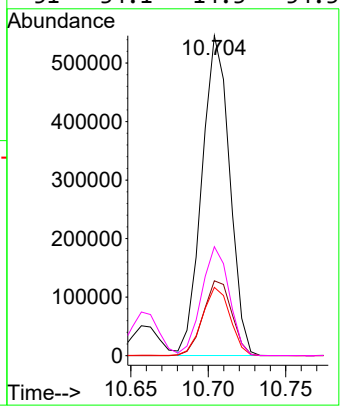




#63
Azobenzene
Concen: 40.833 ng
RT: 10.704 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion: 77 Resp: 68035

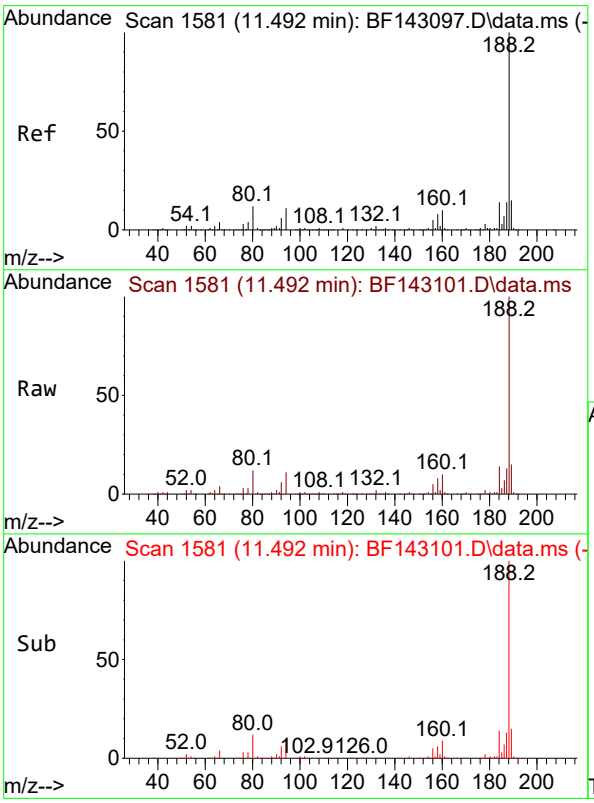
Ion	Ratio	Lower	Upper
77	100		
182	23.4	4.0	44.0
105	21.3	1.4	41.4
51	34.1	14.3	54.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

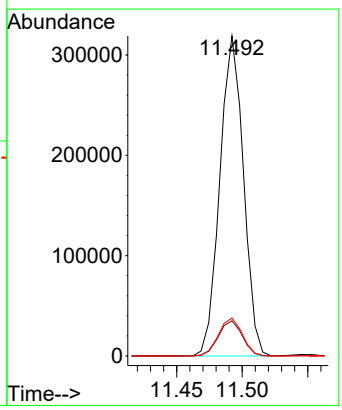
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

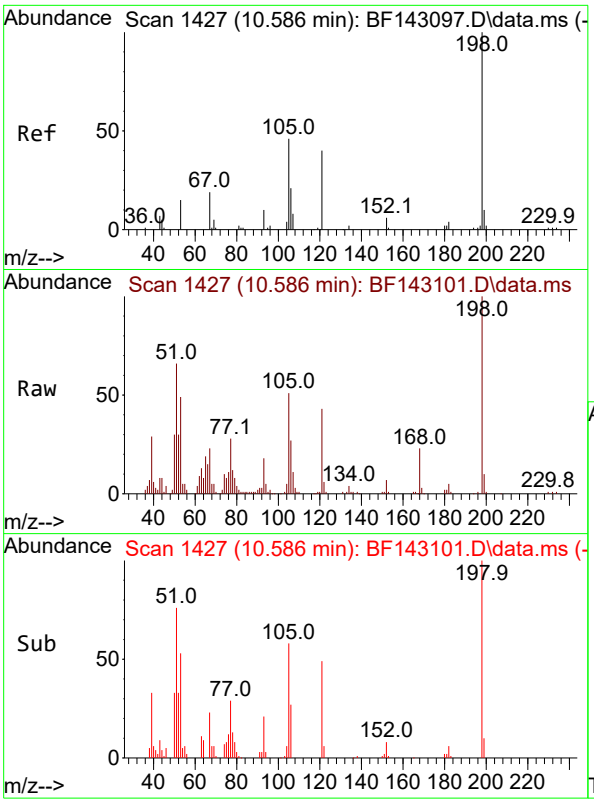


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:188 Resp: 398969

Ion	Ratio	Lower	Upper
188	100		
94	11.0	8.6	13.0
80	11.9	9.3	13.9

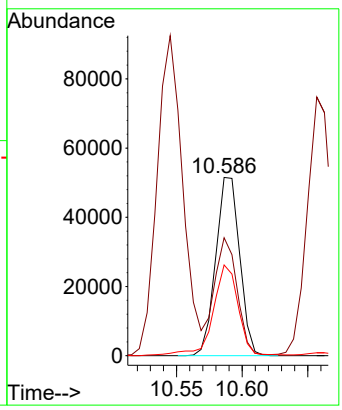




#65
4,6-Dinitro-2-methylphenol
Concen: 44.754 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:198 Resp: 6526

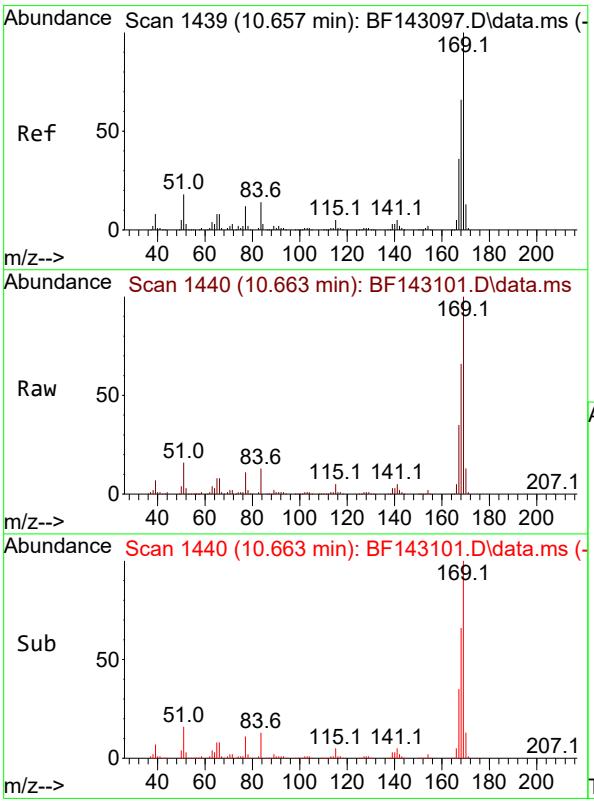
Ion	Ratio	Lower	Upper
198	100		
51	66.2	44.6	84.6
105	50.9	29.3	69.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

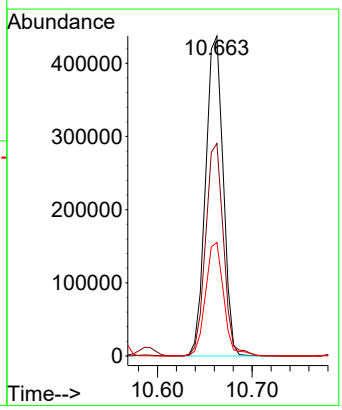
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

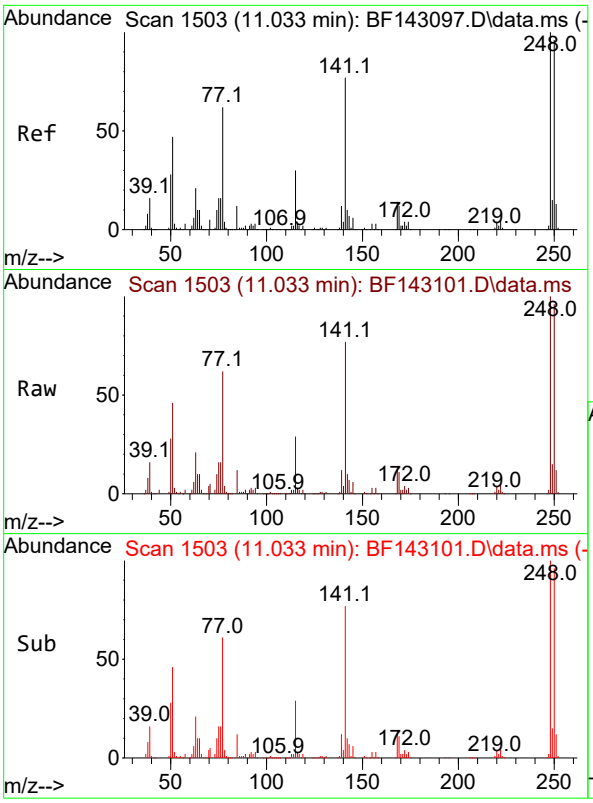


#66
n-Nitrosodiphenylamine
Concen: 40.179 ng
RT: 10.663 min Scan# 1440
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:169 Resp: 563086

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.6
167	35.5	28.4	42.6

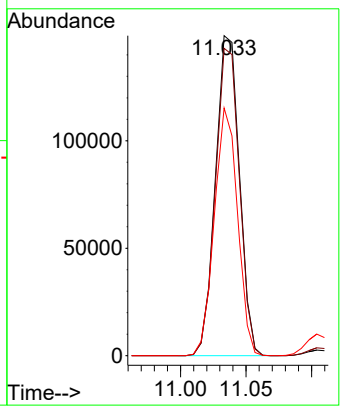




#67
4-Bromophenyl-phenylether
Concen: 41.782 ng
RT: 11.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:248 Resp: 18957

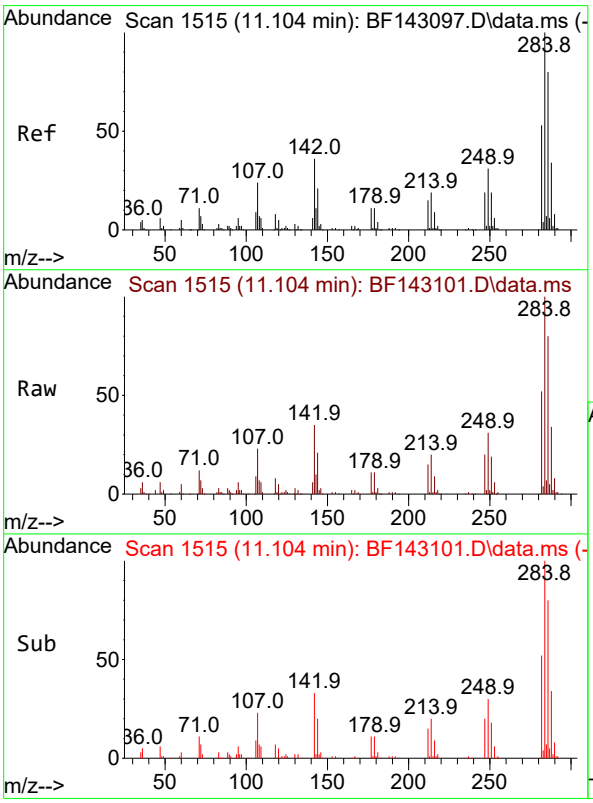
Ion	Ratio	Lower	Upper
248	100		
250	96.0	76.7	115.1
141	77.4	61.7	92.5



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

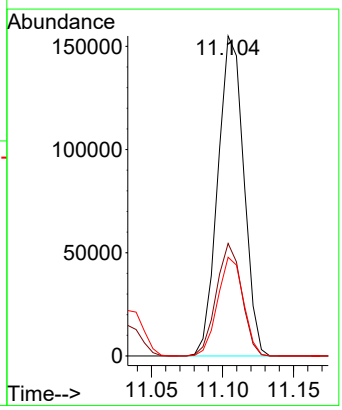
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

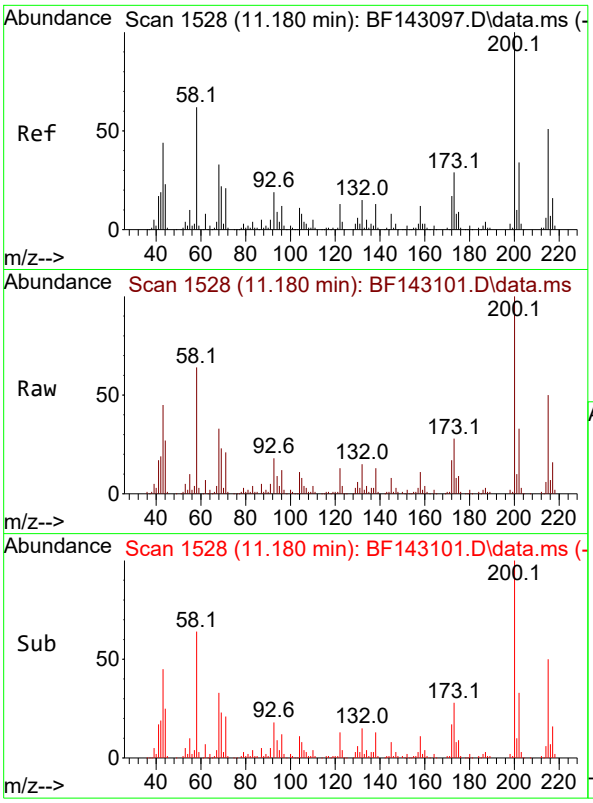


#68
Hexachlorobenzene
Concen: 40.915 ng
RT: 11.104 min Scan# 1515
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:284 Resp: 196969

Ion	Ratio	Lower	Upper
284	100		
142	35.1	28.9	43.3
249	30.9	24.6	37.0

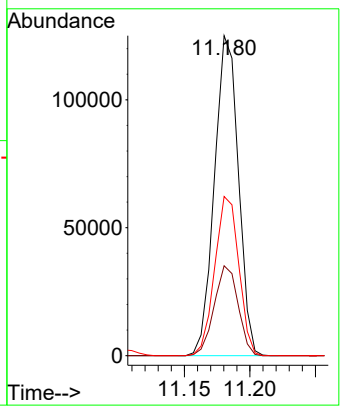




#69
Atrazine
Concen: 44.273 ng
RT: 11.180 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:200 Resp: 15874

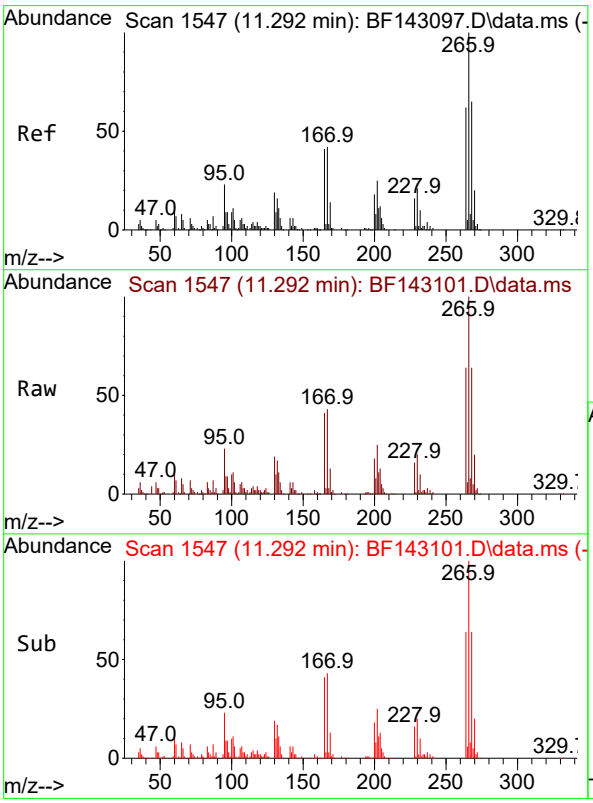
Ion	Ratio	Lower	Upper
200	100		
173	28.1	9.1	49.1
215	49.8	31.0	71.0



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

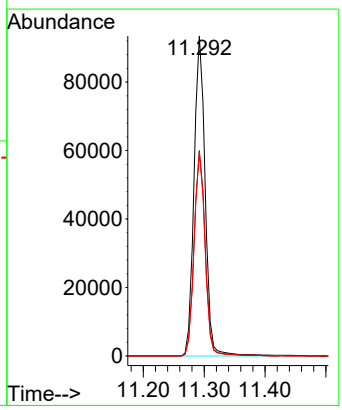
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

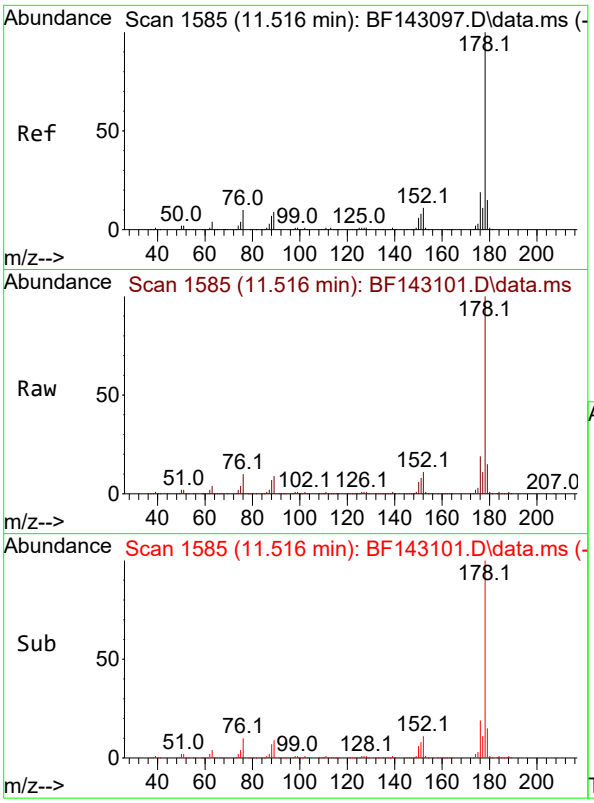


#70
Pentachlorophenol
Concen: 44.978 ng
RT: 11.292 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:266 Resp: 118797

Ion	Ratio	Lower	Upper
266	100		
268	64.1	51.8	77.6
264	63.7	49.7	74.5

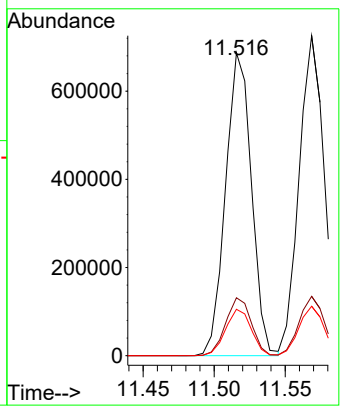




#71
Phenanthrene
Concen: 40.469 ng
RT: 11.516 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:178 Resp: 87136

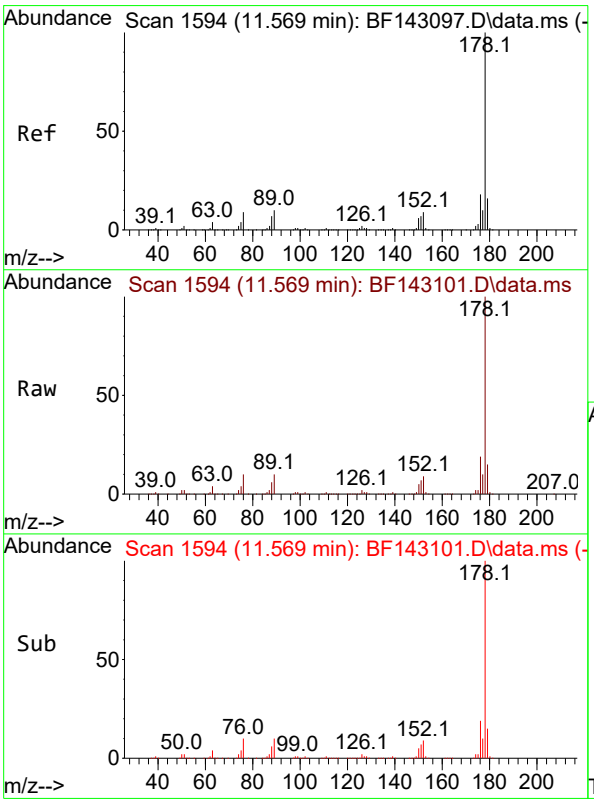
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.1	22.7
179	15.3	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

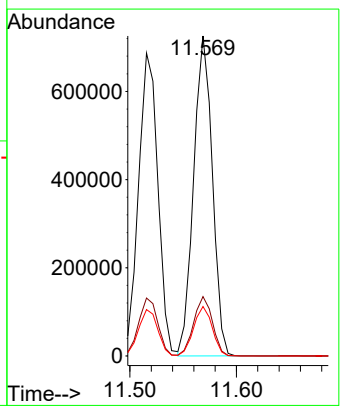
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

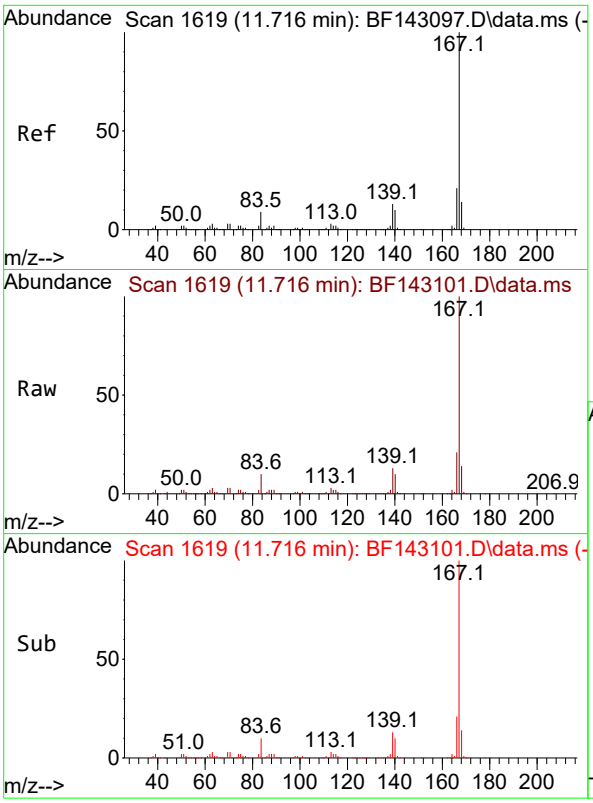


#72
Anthracene
Concen: 40.999 ng
RT: 11.569 min Scan# 1594
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:178 Resp: 887738

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.5	12.4	18.6

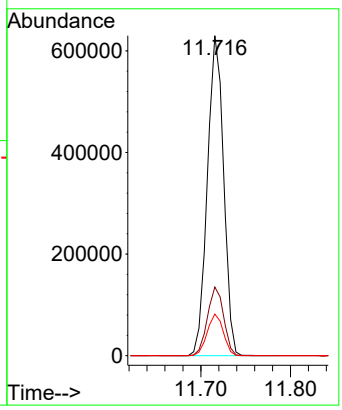




#73
Carbazole
Concen: 40.823 ng
RT: 11.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:167 Resp: 79188

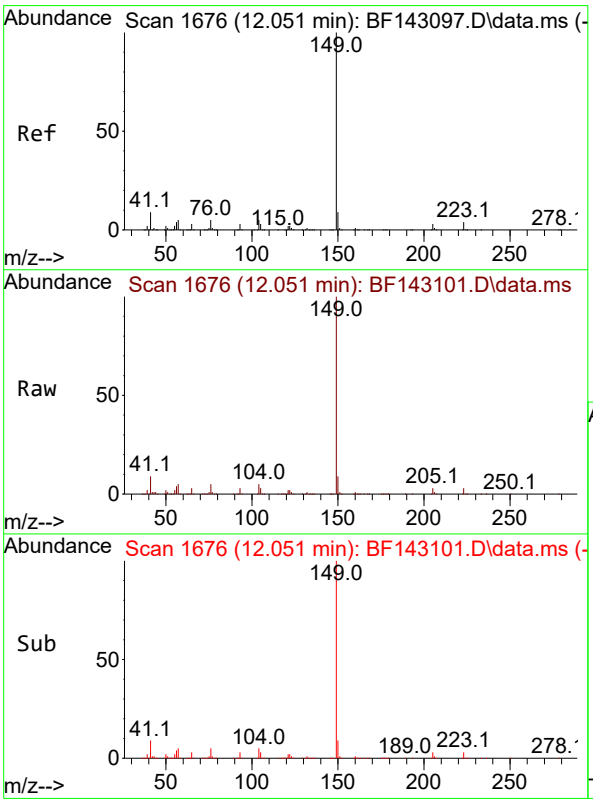
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.4
139	13.0	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

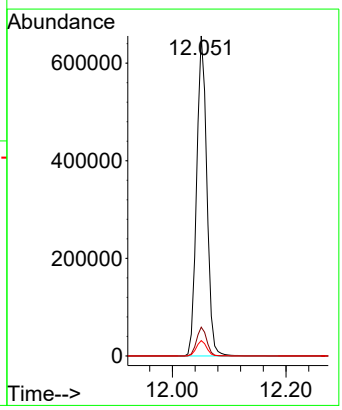
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

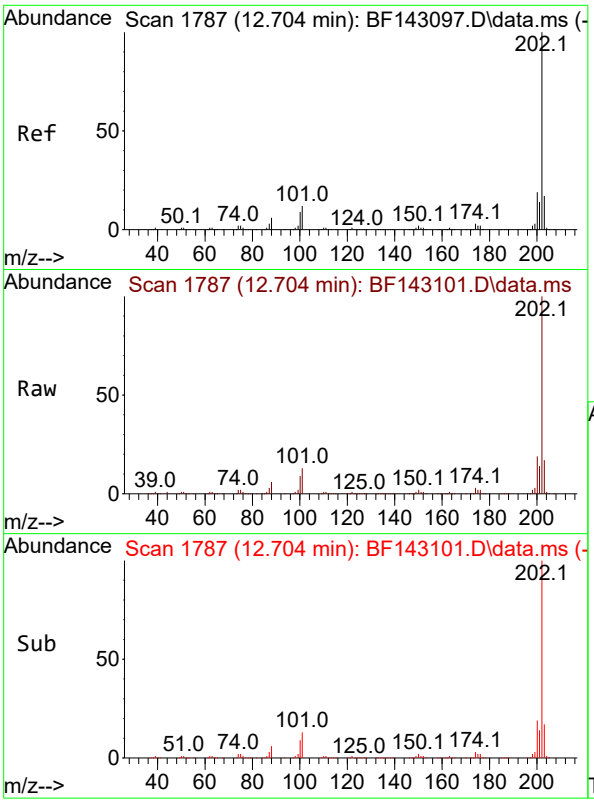


#74
Di-n-butylphthalate
Concen: 46.099 ng
RT: 12.051 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:149 Resp: 820833

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.8	3.8	5.8

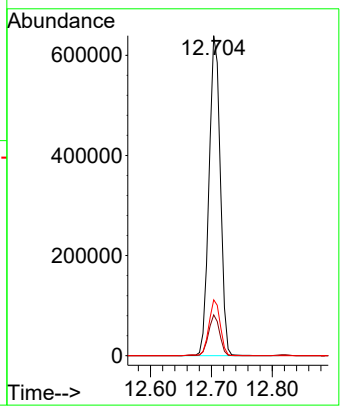




#75
Fluoranthene
Concen: 42.113 ng
RT: 12.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:202 Resp: 82449

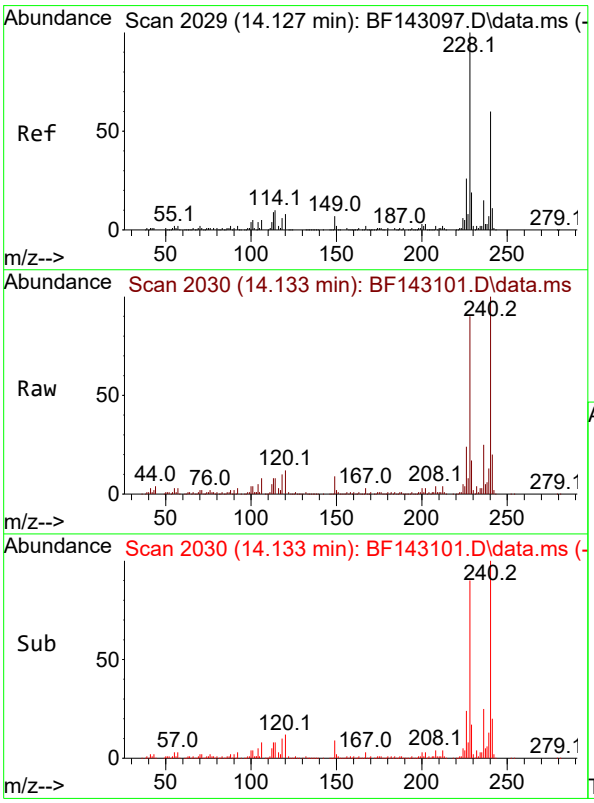
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	32.4
203	17.5	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

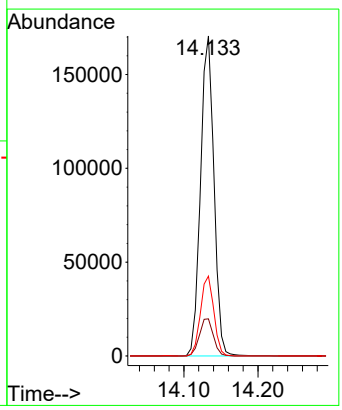
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

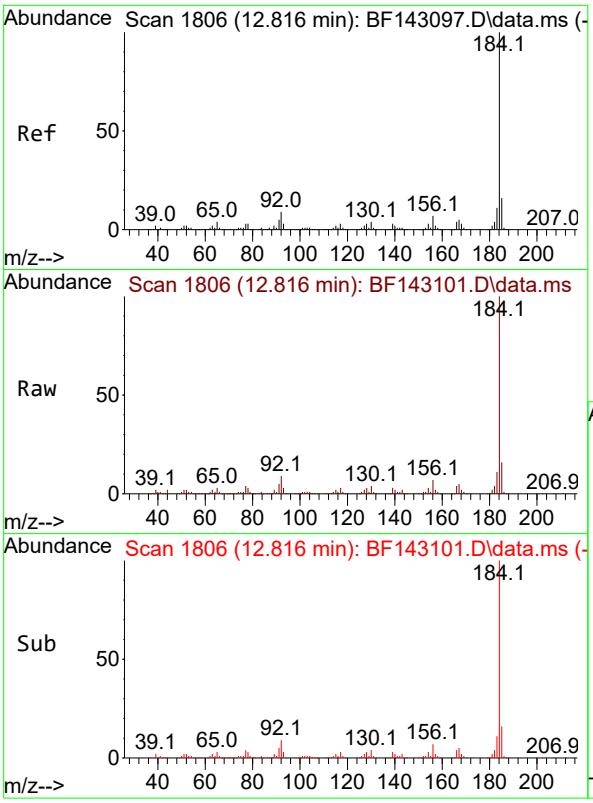


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:240 Resp: 215152

Ion	Ratio	Lower	Upper
240	100		
120	11.6	10.0	15.0
236	24.9	20.0	30.0

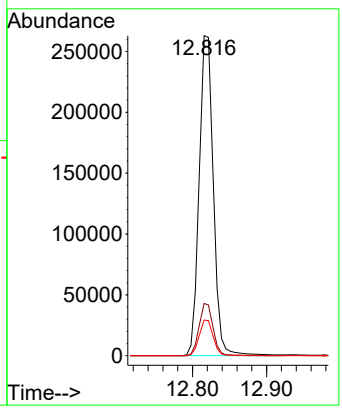




#77
Benzidine
Concen: 47.827 ng
RT: 12.816 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:184 Resp: 35057

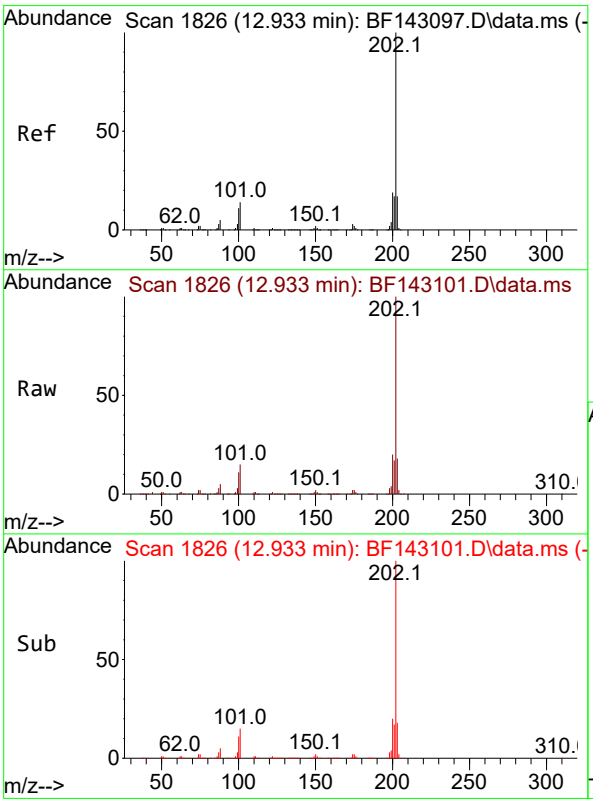
Ion	Ratio	Lower	Upper
184	100		
185	16.3	12.4	18.6
183	11.1	8.6	12.8



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

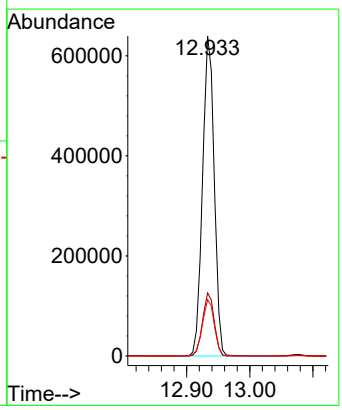
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

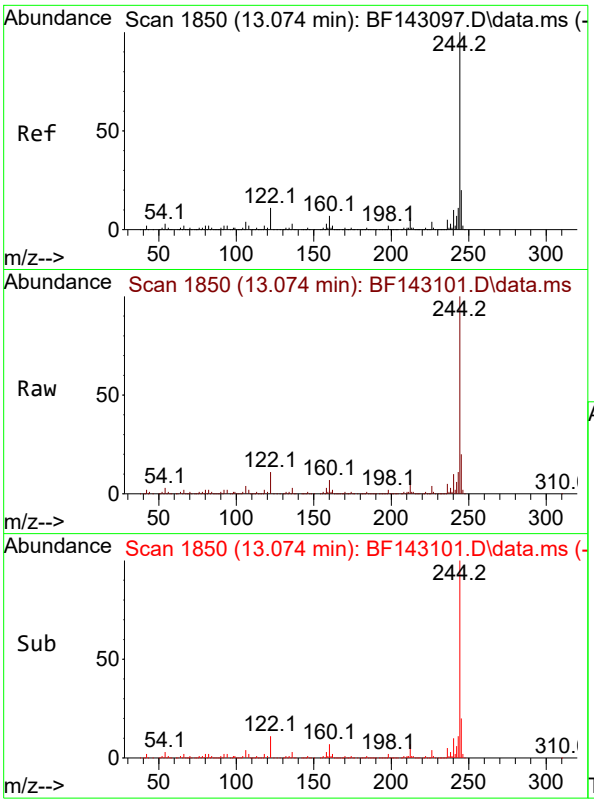


#78
Pyrene
Concen: 41.087 ng
RT: 12.933 min Scan# 1826
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:202 Resp: 820201

Ion	Ratio	Lower	Upper
202	100		
200	19.7	15.5	23.3
203	17.6	14.0	21.0

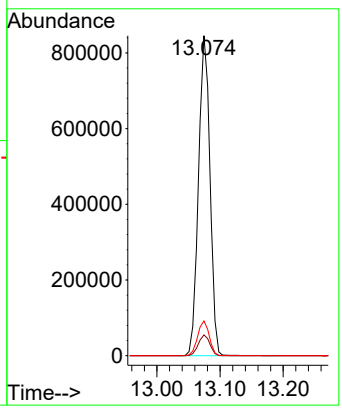




#79
Terphenyl-d14
Concen: 72.317 ng
RT: 13.074 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:244 Resp: 106437

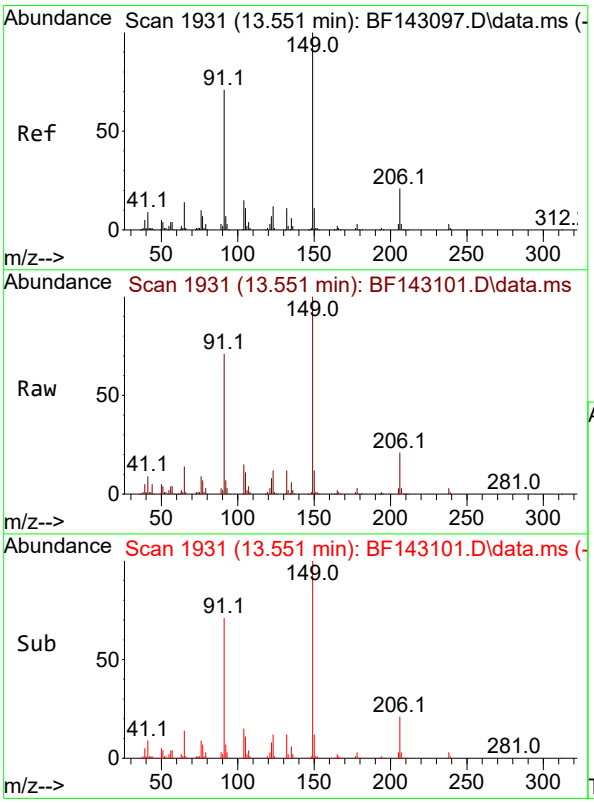
Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	10.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

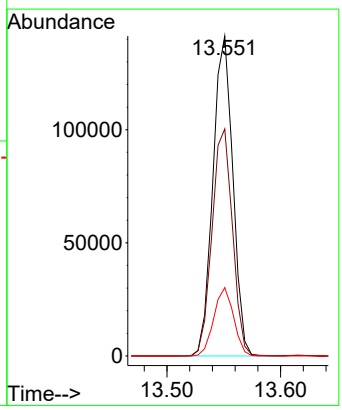
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

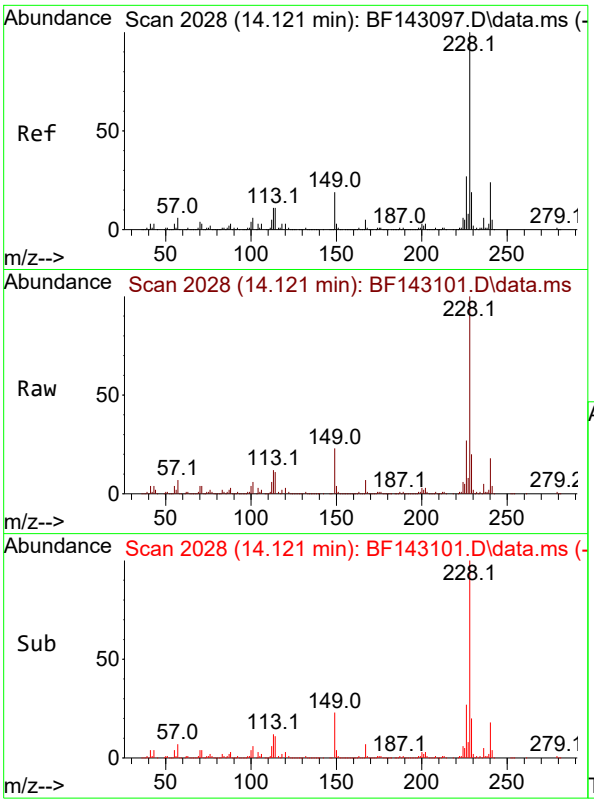


#80
Butylbenzylphthalate
Concen: 43.340 ng
RT: 13.551 min Scan# 1931
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:149 Resp: 172390

Ion	Ratio	Lower	Upper
149	100		
91	71.0	57.0	85.4
206	21.3	17.2	25.8

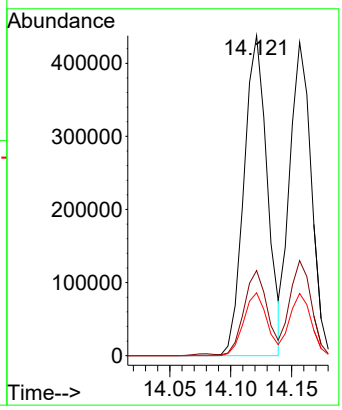




#81
Benzo(a)anthracene
Concen: 40.719 ng
RT: 14.121 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:228 Resp: 58379

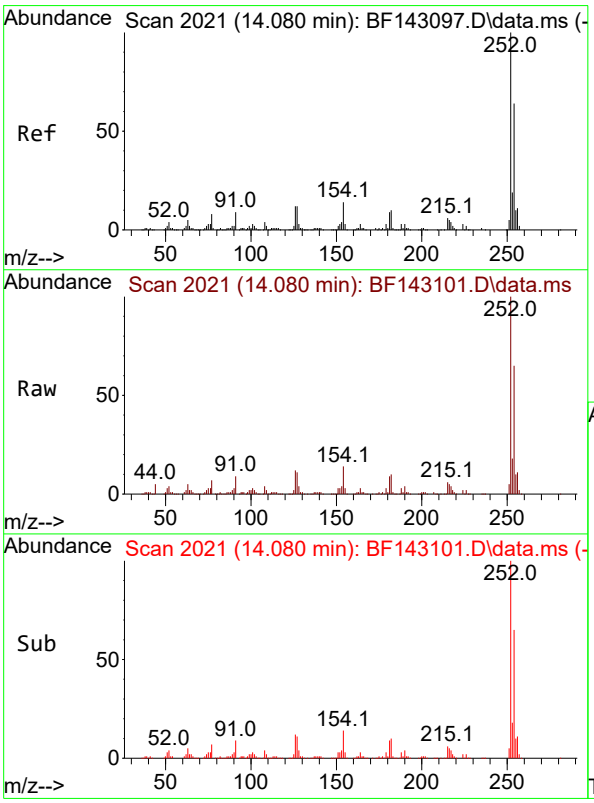
Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.3	31.9
229	19.6	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

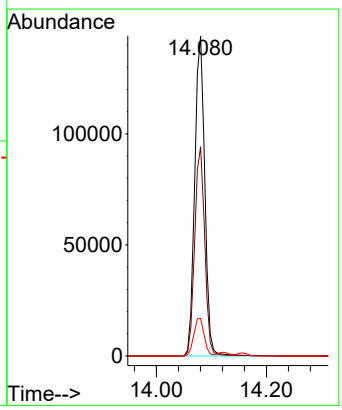
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

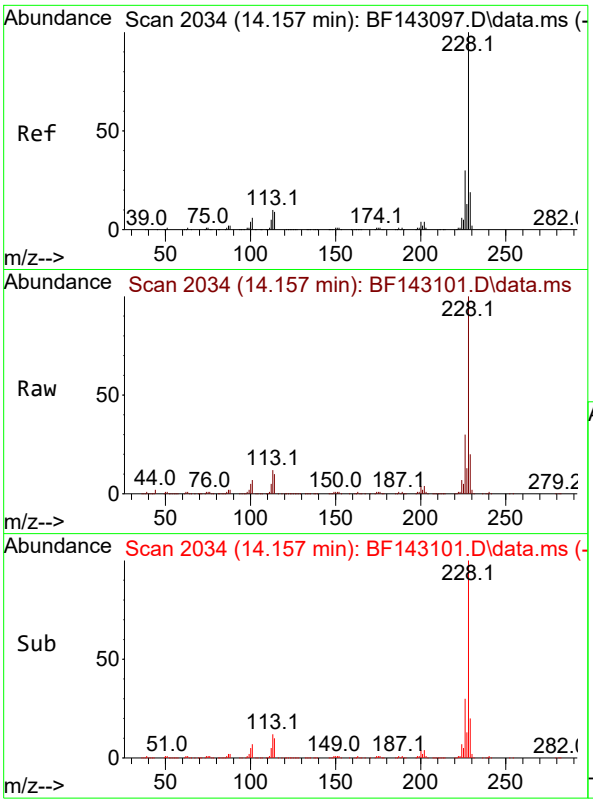


#82
3,3'-Dichlorobenzidine
Concen: 44.044 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:252 Resp: 183371

Ion	Ratio	Lower	Upper
252	100		
254	65.4	51.5	77.3
126	11.7	9.4	14.0

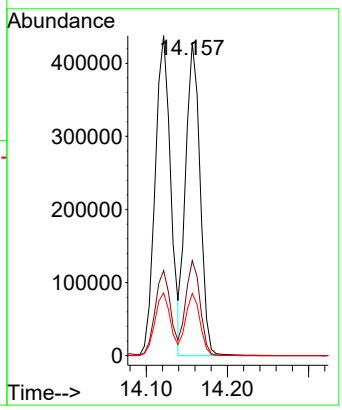




#83
Chrysene
Concen: 40.139 ng
RT: 14.157 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:228 Resp: 530018

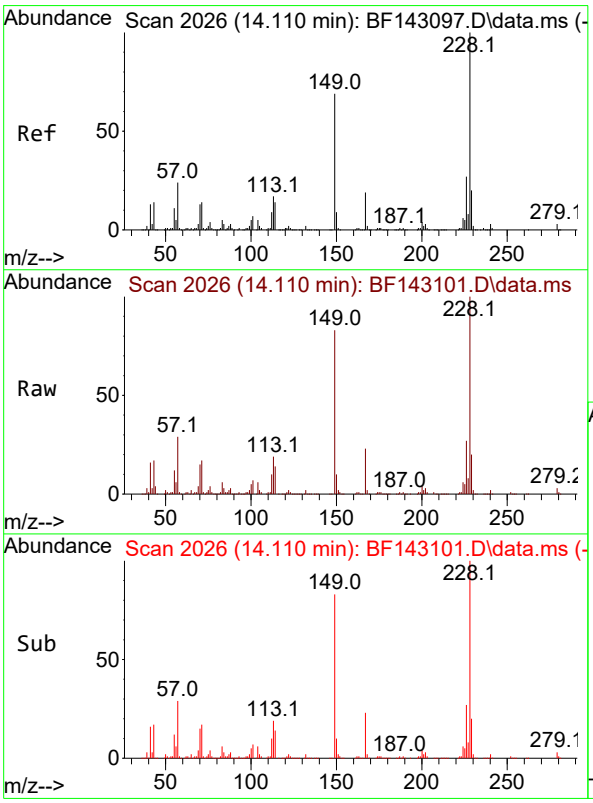
Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.4	35.2
229	19.8	15.3	22.9



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

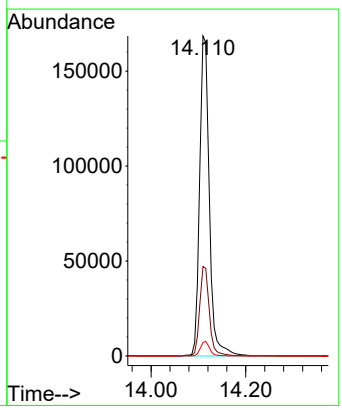
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

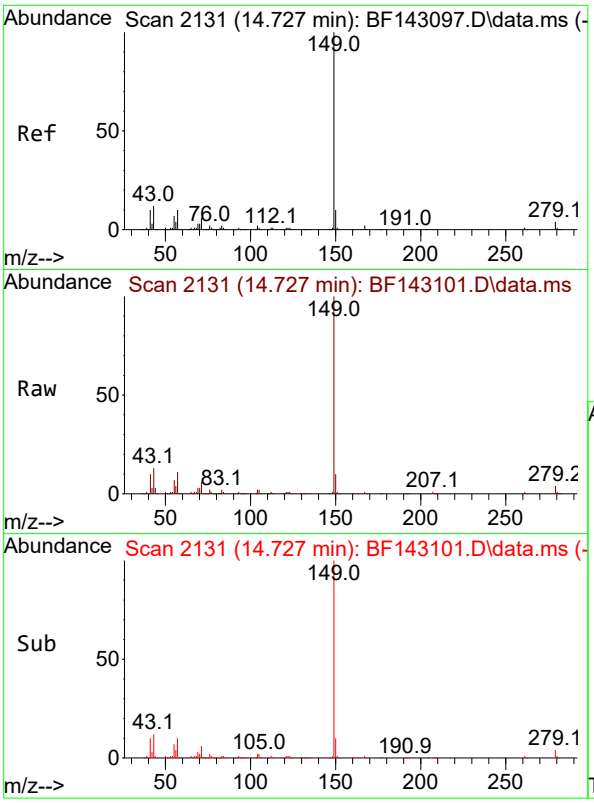


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.166 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:149 Resp: 239329

Ion	Ratio	Lower	Upper
149	100		
167	27.9	21.9	32.9
279	4.2	3.4	5.0

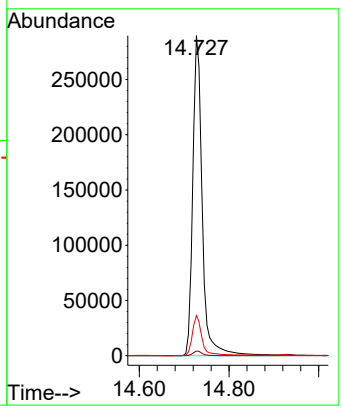




#85
Di-n-octyl phthalate
Concen: 38.648 ng
RT: 14.727 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:149 Resp: 42495

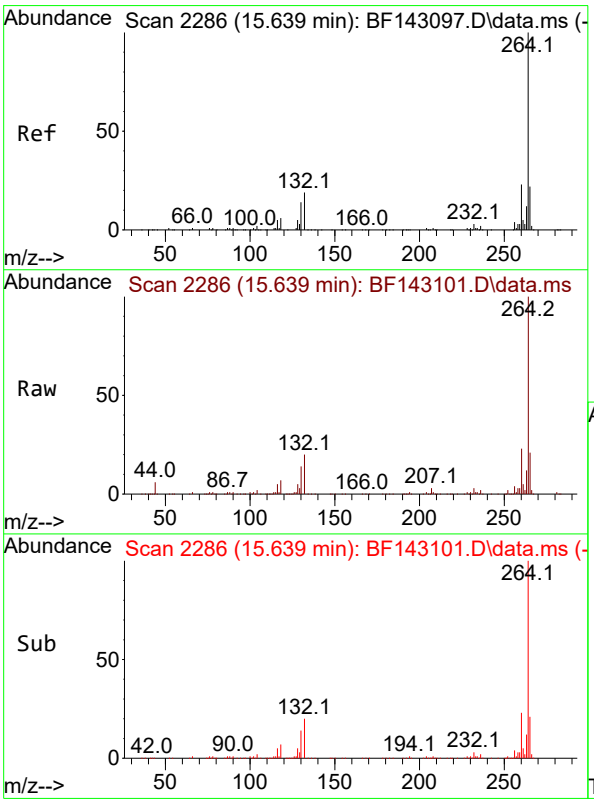
Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.2	1.8
43	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

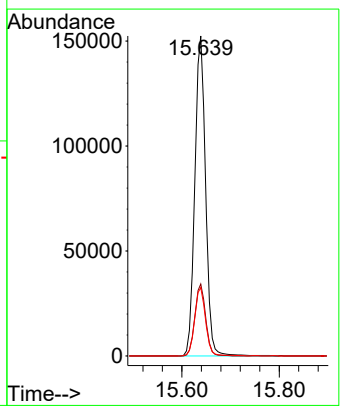
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

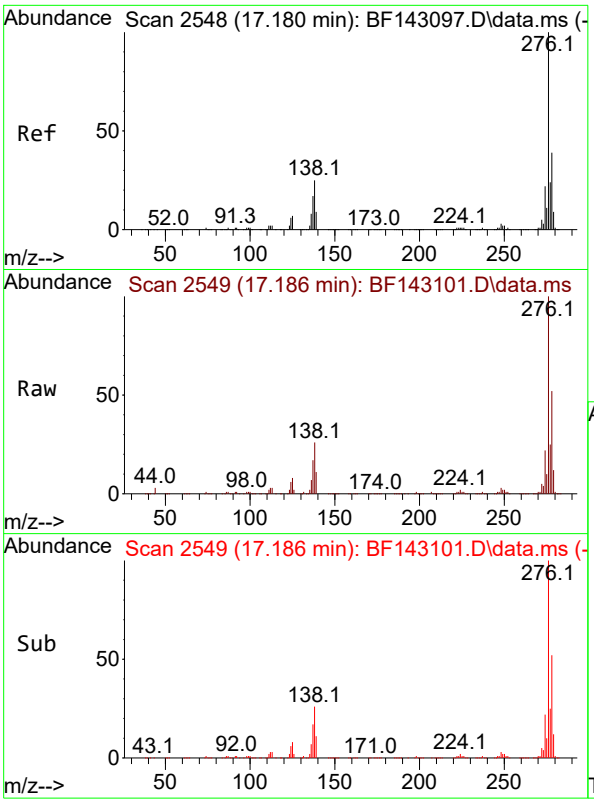


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2286
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:264 Resp: 235493

Ion	Ratio	Lower	Upper
264	100		
260	22.5	18.5	27.7
265	21.3	17.5	26.3

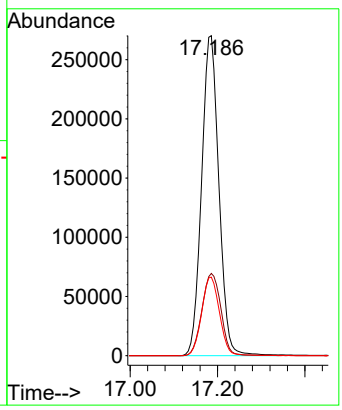




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.503 ng
RT: 17.186 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:276 Resp: 74444

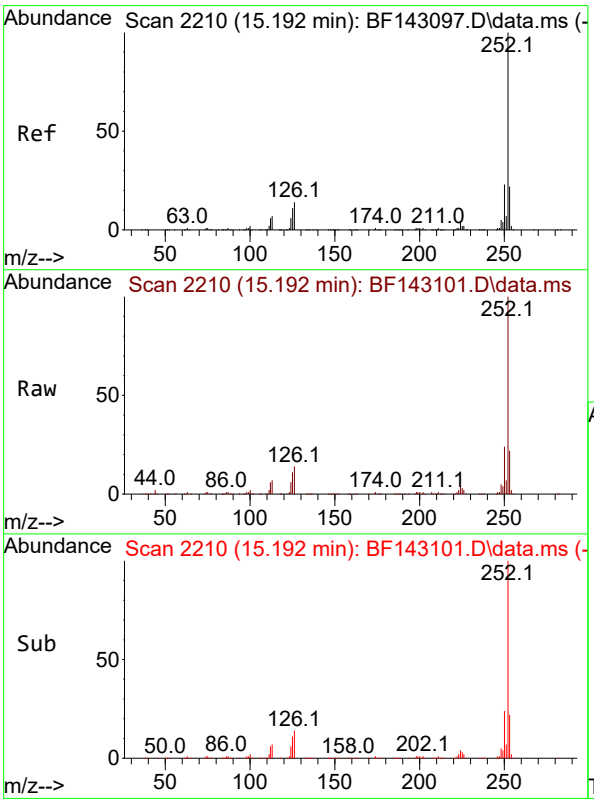
Ion	Ratio	Lower	Upper
276	100		
138	28.1	22.6	34.0
277	25.4	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

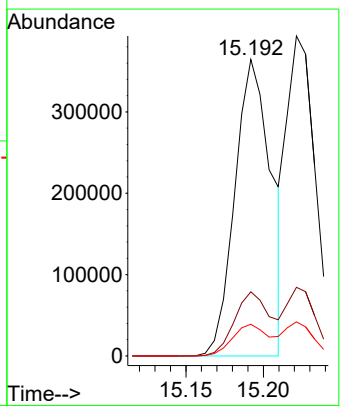
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

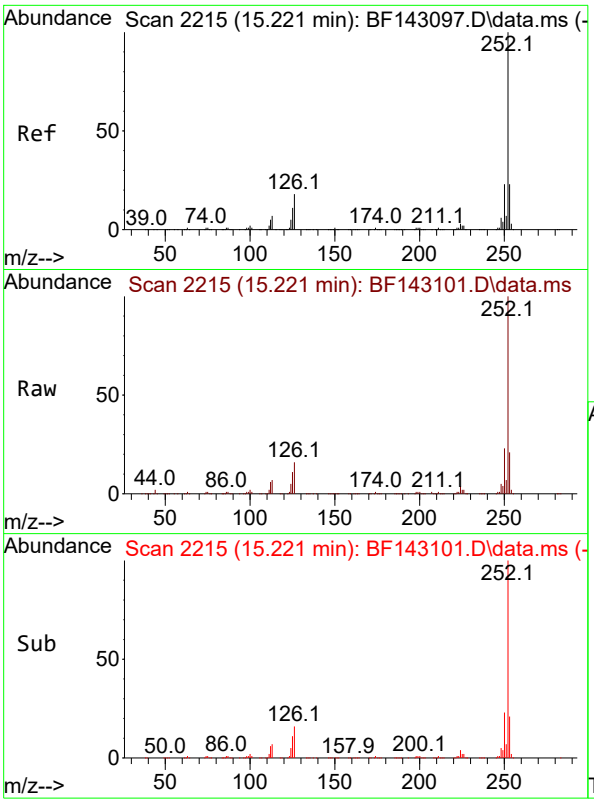


#88
Benzo(b)fluoranthene
Concen: 43.782 ng
RT: 15.192 min Scan# 2210
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:252 Resp: 594727

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.5	26.3
125	10.7	8.6	13.0

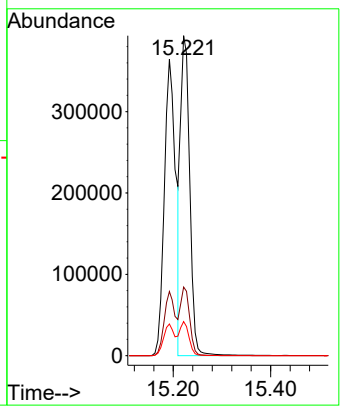




#89
Benzo(k)fluoranthene
Concen: 39.662 ng
RT: 15.221 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:252 Resp: 51397

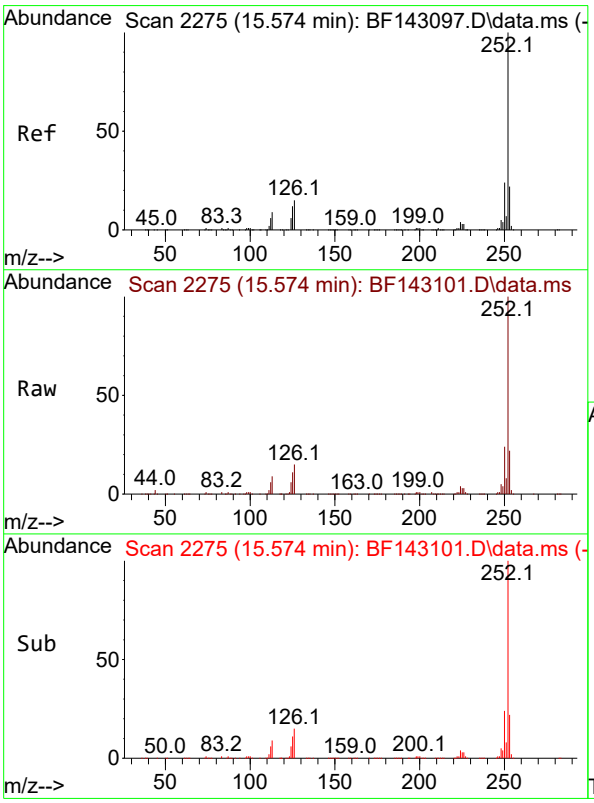
Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.4	26.2
125	10.7	8.5	12.7



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations APPROVED

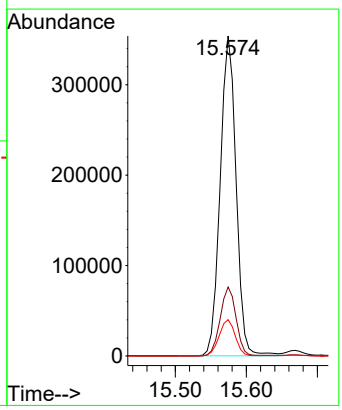
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025

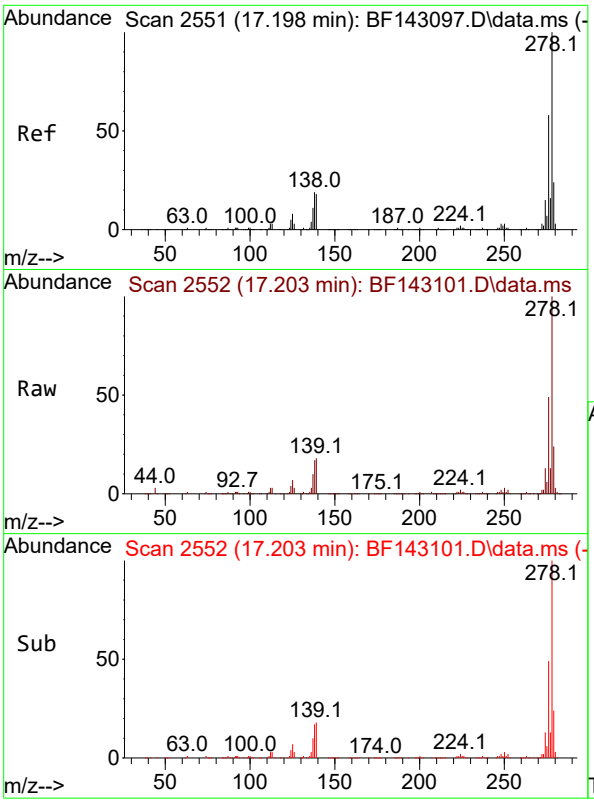


#90
Benzo(a)pyrene
Concen: 42.724 ng
RT: 15.574 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:252 Resp: 548875

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.5	26.3
125	11.4	9.4	14.0

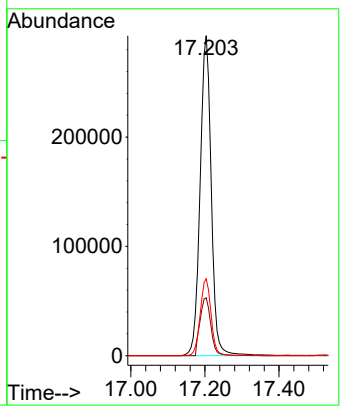




#91
Dibenzo(a,h)anthracene
Concen: 42.735 ng
RT: 17.203 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:278 Resp: 61188

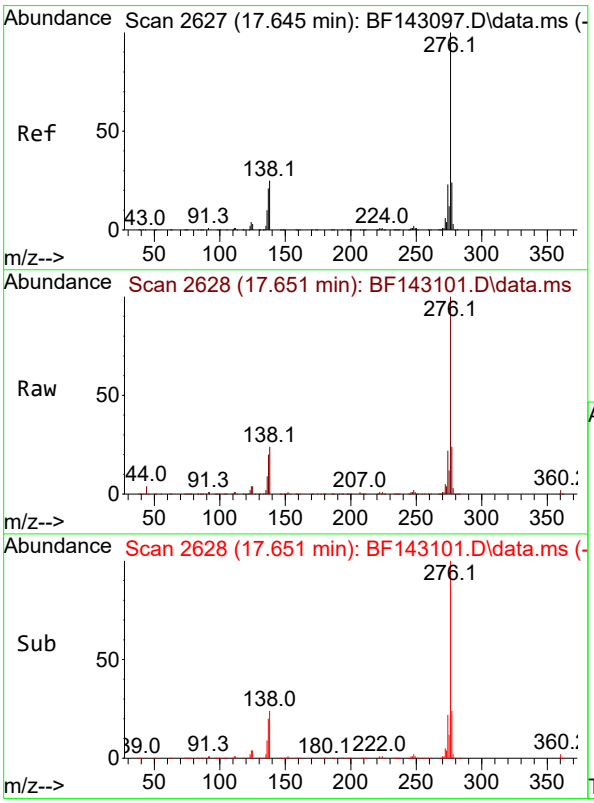
Ion	Ratio	Lower	Upper
278	100		
139	18.1	14.6	22.0
279	24.1	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Manual Integrations
APPROVED

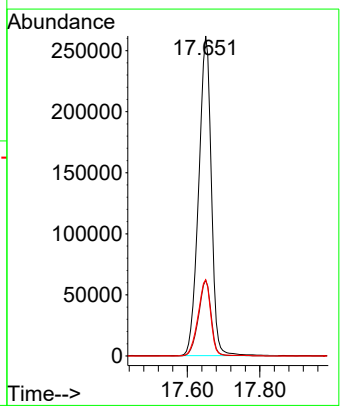
Reviewed By :Rahul Chavli 07/16/2025
Supervised By :Jagrut Upadhyay 07/16/2025



#92
Benzo(g,h,i)perylene
Concen: 43.359 ng
RT: 17.651 min Scan# 2628
Delta R.T. 0.006 min
Lab File: BF143101.D
Acq: 15 Jul 2025 17:27

Tgt Ion:276 Resp: 632939

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	23.9	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	106	0.00
2		1,4-Dioxane	0.630	0.602	4.4	101	0.00
3		Pyridine	1.596	1.636	-2.5	108	0.00
4		n-Nitrosodimethylamine	0.827	0.857	-3.6	111	0.00
5	S	2-Fluorophenol	1.266	1.247	1.5	105	0.00
6		Aniline	2.241	2.299	-2.6	110	0.00
7	S	Phenol-d6	1.591	1.563	1.8	105	0.00
8		2-Chlorophenol	1.272	1.348	-6.0	112	0.00
9		Benzaldehyde	1.212	1.125	7.2	82	0.00
10	C	Phenol	1.723	1.795	-4.2	111	0.00
11		bis(2-Chloroethyl)ether	1.334	1.362	-2.1	110	0.00
12		1,3-Dichlorobenzene	1.437	1.462	-1.7	109	0.00
13	C	1,4-Dichlorobenzene	1.446	1.465	-1.3	109	0.00
14		1,2-Dichlorobenzene	1.379	1.405	-1.9	109	0.00
15		Benzyl Alcohol	1.179	1.248	-5.9	113	0.00
16		2,2'-oxybis(1-Chloropropane	2.458	2.475	-0.7	109	0.00
17		2-Methylphenol	1.098	1.140	-3.8	111	0.00
18		Hexachloroethane	0.471	0.509	-8.1	114	0.00
19	P	n-Nitroso-di-n-propylamine	0.975	1.023	-4.9	112	0.00
20		3+4-Methylphenols	1.346	1.415	-5.1	110	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
22		Acetophenone	0.482	0.486	-0.8	110	0.00
23	S	Nitrobenzene-d5	0.357	0.349	2.2	100	0.00
24		Nitrobenzene	0.344	0.384	-11.6	115	0.00
25		Isophorone	0.689	0.710	-3.0	111	0.00
26	C	2-Nitrophenol	0.114	0.151	-32.5#	134	0.00
27		2,4-Dimethylphenol	0.320	0.336	-5.0	112	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.426	-1.9	111	0.00
29	C	2,4-Dichlorophenol	0.262	0.285	-8.8	114	0.00
30		1,2,4-Trichlorobenzene	0.297	0.306	-3.0	110	0.00
31		Naphthalene	0.993	1.007	-1.4	111	0.00
32		Benzoic acid	0.139	0.170	-22.3	126	0.00
33		4-Chloroaniline	0.399	0.412	-3.3	110	0.00
34	C	Hexachlorobutadiene	0.178	0.183	-2.8	110	0.00
35		Caprolactam	0.082	0.089	-8.5	114	0.00
36	C	4-Chloro-3-methylphenol	0.291	0.309	-6.2	112	0.00
37		2-Methylnaphthalene	0.592	0.602	-1.7	111	0.00
38		1-Methylnaphthalene	0.615	0.629	-2.3	111	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	0.583	0.591	-1.4	111	0.00
41	P	Hexachlorocyclopentadiene	0.323	0.364	-12.7	123	0.00
42	S	2,4,6-Tribromophenol	0.178	0.192	-7.9	111	0.00
43	C	2,4,6-Trichlorophenol	0.362	0.398	-9.9	115	0.00
44		2,4,5-Trichlorophenol	0.380	0.408	-7.4	113	0.00
45	S	2-Fluorobiphenyl	1.505	1.299	13.7	97	0.00
46		1,1'-Biphenyl	1.595	1.610	-0.9	112	0.00
47		2-Chloronaphthalene	1.172	1.178	-0.5	111	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	0.303	0.374	-23.4	124	0.00
49		Acenaphthylene	1.952	1.988	-1.8	111	0.00
50		Dimethylphthalate	1.258	1.298	-3.2	113	0.00
51		2,6-Dinitrotoluene	0.219	0.266	-21.5	124	0.00
52	C	Acenaphthene	1.152	1.152	0.0	111	0.00
53		3-Nitroaniline	0.272	0.324	-19.1	123	0.00
54	P	2,4-Dinitrophenol	0.073	0.094	-28.8#	149	0.00
55		Dibenzofuran	1.717	1.730	-0.8	111	0.00
56	P	4-Nitrophenol	0.216	0.247	-14.4	120	0.00
57		2,4-Dinitrotoluene	0.265	0.339	-27.9#	125	0.00
58		Fluorene	1.288	1.279	0.7	112	0.00
59		2,3,4,6-Tetrachlorophenol	0.302	0.339	-12.3	118	0.00
60		Diethylphthalate	1.214	1.284	-5.8	114	0.00
61		4-Chlorophenyl-phenylether	0.617	0.631	-2.3	112	0.00
62		4-Nitroaniline	0.236	0.281	-19.1	123	0.00
63		Azobenzene	1.343	1.370	-2.0	113	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	0.067	0.082	-22.4	138	0.00
66	c	n-Nitrosodiphenylamine	0.703	0.706	-0.4	112	0.00
67		4-Bromophenyl-phenylether	0.227	0.238	-4.8	115	0.00
68		Hexachlorobenzene	0.241	0.247	-2.5	113	0.00
69		Atrazine	0.180	0.199	-10.6	119	0.00
70	C	Pentachlorophenol	0.132	0.149	-12.9	122	0.00
71		Phenanthrene	1.079	1.092	-1.2	113	0.00
72		Anthracene	1.085	1.113	-2.6	114	0.00
73		Carbazole	0.972	0.992	-2.1	114	0.00
74		Di-n-butylphthalate	0.893	1.029	-15.2	121	0.00
75	C	Fluoranthene	0.981	1.033	-5.3	116	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	112	0.00
77		Benzidine	0.681	0.815	-19.7	109	0.00
78		Pyrene	1.856	1.906	-2.7	116	0.00
79	S	Terphenyl-d14	1.368	1.237	9.6	103	0.00
80		Butylbenzylphthalate	0.318	0.401	-26.1#	131	0.00
81		Benzo(a)anthracene	1.333	1.357	-1.8	113	0.00
82		3,3'-Dichlorobenzidine	0.387	0.426	-10.1	124	0.00
83		Chrysene	1.227	1.232	-0.4	115	0.00
84		Bis(2-ethylhexyl)phthalate	0.480	0.556	-15.8	121	0.00
85	c	Di-n-octyl phthalate	0.927	0.988	-6.6	120	0.00
86	I	Perylene-d12	1.000	1.000	0.0	104	0.00
87		Indeno(1,2,3-cd)pyrene	1.488	1.581	-6.2	108	0.00
88		Benzo(b)fluoranthene	1.154	1.263	-9.4	121	0.00
89		Benzo(k)fluoranthene	1.101	1.091	0.9	99	0.00
90	C	Benzo(a)pyrene	1.091	1.165	-6.8	108	0.00
91		Dibenzo(a,h)anthracene	1.216	1.299	-6.8	109	0.00
92		Benzo(g,h,i)perylene	1.240	1.344	-8.4	111	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	106	0.00
2		1,4-Dioxane	40.000	38.242	4.4	101	0.00
3		Pyridine	40.000	41.009	-2.5	108	0.00
4		n-Nitrosodimethylamine	40.000	41.468	-3.7	111	0.00
5	S	2-Fluorophenol	80.000	78.799	1.5	105	0.00
6		Aniline	40.000	41.038	-2.6	110	0.00
7	S	Phenol-d6	80.000	78.598	1.8	105	0.00
8		2-Chlorophenol	40.000	42.397	-6.0	112	0.00
9		Benzaldehyde	40.000	37.115	7.2	82	0.00
10	C	Phenol	40.000	41.681	-4.2	111	0.00
11		bis(2-Chloroethyl)ether	40.000	40.848	-2.1	110	0.00
12		1,3-Dichlorobenzene	40.000	40.694	-1.7	109	0.00
13	C	1,4-Dichlorobenzene	40.000	40.539	-1.3	109	0.00
14		1,2-Dichlorobenzene	40.000	40.782	-2.0	109	0.00
15		Benzyl Alcohol	40.000	42.336	-5.8	113	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	40.273	-0.7	109	0.00
17		2-Methylphenol	40.000	41.532	-3.8	111	0.00
18		Hexachloroethane	40.000	43.239	-8.1	114	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	41.982	-5.0	112	0.00
20		3+4-Methylphenols	40.000	42.057	-5.1	110	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	106	0.00
22		Acetophenone	40.000	40.351	-0.9	110	0.00
23	S	Nitrobenzene-d5	80.000	78.289	2.1	100	0.00
24		Nitrobenzene	40.000	44.647	-11.6	115	0.00
25		Isophorone	40.000	41.188	-3.0	111	0.00
26	C	2-Nitrophenol	40.000	44.317	-10.8	134	0.00
27		2,4-Dimethylphenol	40.000	42.064	-5.2	112	0.00
28		bis(2-Chloroethoxy)methane	40.000	40.789	-2.0	111	0.00
29	C	2,4-Dichlorophenol	40.000	43.580	-8.9	114	0.00
30		1,2,4-Trichlorobenzene	40.000	41.194	-3.0	110	0.00
31		Naphthalene	40.000	40.543	-1.4	111	0.00
32		Benzoic acid	40.000	43.449	-8.6	126	0.00
33		4-Chloroaniline	40.000	41.236	-3.1	110	0.00
34	C	Hexachlorobutadiene	40.000	41.324	-3.3	110	0.00
35		Caprolactam	40.000	43.536	-8.8	114	0.00
36	C	4-Chloro-3-methylphenol	40.000	42.387	-6.0	112	0.00
37		2-Methylnaphthalene	40.000	40.654	-1.6	111	0.00
38		1-Methylnaphthalene	40.000	40.922	-2.3	111	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	109	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.531	-1.3	111	0.00
41	P	Hexachlorocyclopentadiene	40.000	45.086	-12.7	123	0.00
42	S	2,4,6-Tribromophenol	80.000	85.971	-7.5	111	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.955	-9.9	115	0.00
44		2,4,5-Trichlorophenol	40.000	43.001	-7.5	113	0.00
45	S	2-Fluorobiphenyl	80.000	69.090	13.6	97	0.00
46		1,1'-Biphenyl	40.000	40.387	-1.0	112	0.00
47		2-Chloronaphthalene	40.000	40.207	-0.5	111	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	43.148	-7.9	124	0.00
49		Acenaphthylene	40.000	40.736	-1.8	111	0.00
50		Dimethylphthalate	40.000	41.279	-3.2	113	0.00
51		2,6-Dinitrotoluene	40.000	43.156	-7.9	124	0.00
52	C	Acenaphthene	40.000	39.982	0.0	111	0.00
53		3-Nitroaniline	40.000	47.707	-19.3	123	0.00
54	P	2,4-Dinitrophenol	40.000	47.113	-17.8	149	0.00
55		Dibenzofuran	40.000	40.300	-0.7	111	0.00
56	P	4-Nitrophenol	40.000	45.720	-14.3	120	0.00
57		2,4-Dinitrotoluene	40.000	43.964	-9.9	125	0.00
58		Fluorene	40.000	39.732	0.7	112	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	44.902	-12.3	118	0.00
60		Diethylphthalate	40.000	42.297	-5.7	114	0.00
61		4-Chlorophenyl-phenylether	40.000	40.882	-2.2	112	0.00
62		4-Nitroaniline	40.000	47.486	-18.7	123	0.00
63		Azobenzene	40.000	40.833	-2.1	113	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	40.000	44.754	-11.9	138	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.179	-0.4	112	0.00
67		4-Bromophenyl-phenylether	40.000	41.782	-4.5	115	0.00
68		Hexachlorobenzene	40.000	40.915	-2.3	113	0.00
69		Atrazine	40.000	44.273	-10.7	119	0.00
70	C	Pentachlorophenol	40.000	44.978	-12.4	122	0.00
71		Phenanthrene	40.000	40.469	-1.2	113	0.00
72		Anthracene	40.000	40.999	-2.5	114	0.00
73		Carbazole	40.000	40.823	-2.1	114	0.00
74		Di-n-butylphthalate	40.000	46.099	-15.2	121	0.00
75	C	Fluoranthene	40.000	42.113	-5.3	116	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	112	0.00
77		Benzidine	40.000	47.827	-19.6	109	0.00
78		Pyrene	40.000	41.087	-2.7	116	0.00
79	S	Terphenyl-d14	80.000	72.317	9.6	103	0.00
80		Butylbenzylphthalate	40.000	43.340	-8.4	131	0.00
81		Benzo(a)anthracene	40.000	40.719	-1.8	113	0.00
82		3,3'-Dichlorobenzidine	40.000	44.044	-10.1	124	0.00
83		Chrysene	40.000	40.139	-0.3	115	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.166	-0.4	121	0.00
85	c	Di-n-octyl phthalate	40.000	38.648	3.4	120	0.00
86	I	Perylene-d12	20.000	20.000	0.0	104	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	42.503	-6.3	108	0.00
88		Benzo(b)fluoranthene	40.000	43.782	-9.5	121	0.00
89		Benzo(k)fluoranthene	40.000	39.662	0.8	99	0.00
90	C	Benzo(a)pyrene	40.000	42.724	-6.8	108	0.00
91		Dibenzo(a,h)anthracene	40.000	42.735	-6.8	109	0.00
92		Benzo(g,h,i)perylene	40.000	43.359	-8.4	111	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143101.D
Acq On : 15 Jul 2025 17:27
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF071525

Quant Time: Jul 15 17:54:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050377.D 5 =BM050378.D 10 =BM050379.D 20 =BM050380.D 40 =BM050381.D 50 =BM050382.D 60 =BM050383.D 80 =BM0503
84.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.474	0.457	0.478	3.99
3)		Pyridine		1.249	1.197	1.256	1.228	1.336	1.279	1.236	1.254	3.52
4)		n-Nitrosodimet...			0.562	0.595	0.572	0.620	0.595	0.565	0.585	3.88
5)	S	2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.202	1.168	1.162	4.89
6)		Aniline		1.784	1.702	1.844	1.878	2.042	1.987	1.921	1.880	6.20
7)	S	Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.547	1.498	1.465	6.67
8)		2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.301	1.258	1.225	6.89
9)		Benzaldehyde			0.944	0.985	0.897	0.837	0.694		0.871	13.03
10)	C	Phenol		1.460	1.412	1.516	1.508	1.666	1.598	1.535	1.528	5.51
11)		bis(2-Chloroet...		1.202	1.134	1.223	1.196	1.324	1.268	1.218	1.223	4.88
12)		1,3-Dichlorobe...		1.504	1.425	1.496	1.448	1.580	1.511	1.465	1.490	3.40
13)	C	1,4-Dichlorobe...		1.553	1.459	1.536	1.465	1.610	1.538	1.487	1.521	3.57
14)		1,2-Dichlorobe...		1.481	1.395	1.454	1.410	1.541	1.485	1.428	1.456	3.48
15)		Benzyl Alcohol			0.907	0.995	1.022	1.125	1.090	1.052	1.032	7.45
16)		2,2'-oxybis(1-...		1.835	1.741	1.818	1.752	1.907	1.821	1.741	1.802	3.41
17)		2-Methylphenol		0.922	0.898	0.980	0.990	1.089	1.048	1.008	0.991	6.71
18)		Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.556	0.543	0.535	4.66
19)	P	n-Nitroso-di-n...	0.790	0.805	0.808	0.888	0.911	1.005	0.968	0.924	0.887	9.01
20)		3+4-Methylphenols			1.170	1.296	1.325	1.458	1.393	1.338	1.330	7.29
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.493	0.479	0.501	0.491	0.534	0.513	0.489	0.500	3.69
23)	S	Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.415	0.400	0.392	6.77
24)		Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.362	0.349	0.350	4.73
25)		Isophorone		0.571	0.574	0.634	0.640	0.702	0.679	0.652	0.636	7.73
26)	C	2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.167	0.167	0.143	18.26
27)		2,4-Dimethylph...		0.295	0.275	0.301	0.299	0.329	0.317	0.308	0.303	5.63
28)		bis(2-Chloroet...		0.407	0.395	0.422	0.417	0.454	0.436	0.420	0.422	4.61
29)	C	2,4-Dichloroph...		0.277	0.279	0.311	0.312	0.344	0.334	0.325	0.312	8.26
30)		1,2,4-Trichlor...		0.370	0.349	0.369	0.362	0.397	0.385	0.378	0.373	4.21
31)		Naphthalene		1.033	0.975	1.024	0.988	1.071	1.029	0.992	1.016	3.26
32)		Benzoic acid			0.100	0.139	0.164	0.195	0.194	0.199	0.165	23.89
33)		4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.453	0.437	0.429	6.00
34)	C	Hexachlorobuta...		0.222	0.209	0.222	0.221	0.244	0.239	0.235	0.228	5.37
35)		Caprolactam			0.064	0.081	0.087	0.096	0.093	0.090	0.085	13.87
36)	C	4-Chloro-3-met...		0.258	0.256	0.288	0.295	0.326	0.313	0.302	0.291	9.10
37)		2-Methylnaphth...		0.611	0.595	0.638	0.635	0.693	0.671	0.647	0.641	5.19
38)		1-Methylnaphth...		0.651	0.629	0.674	0.673	0.736	0.707	0.681	0.679	5.17

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

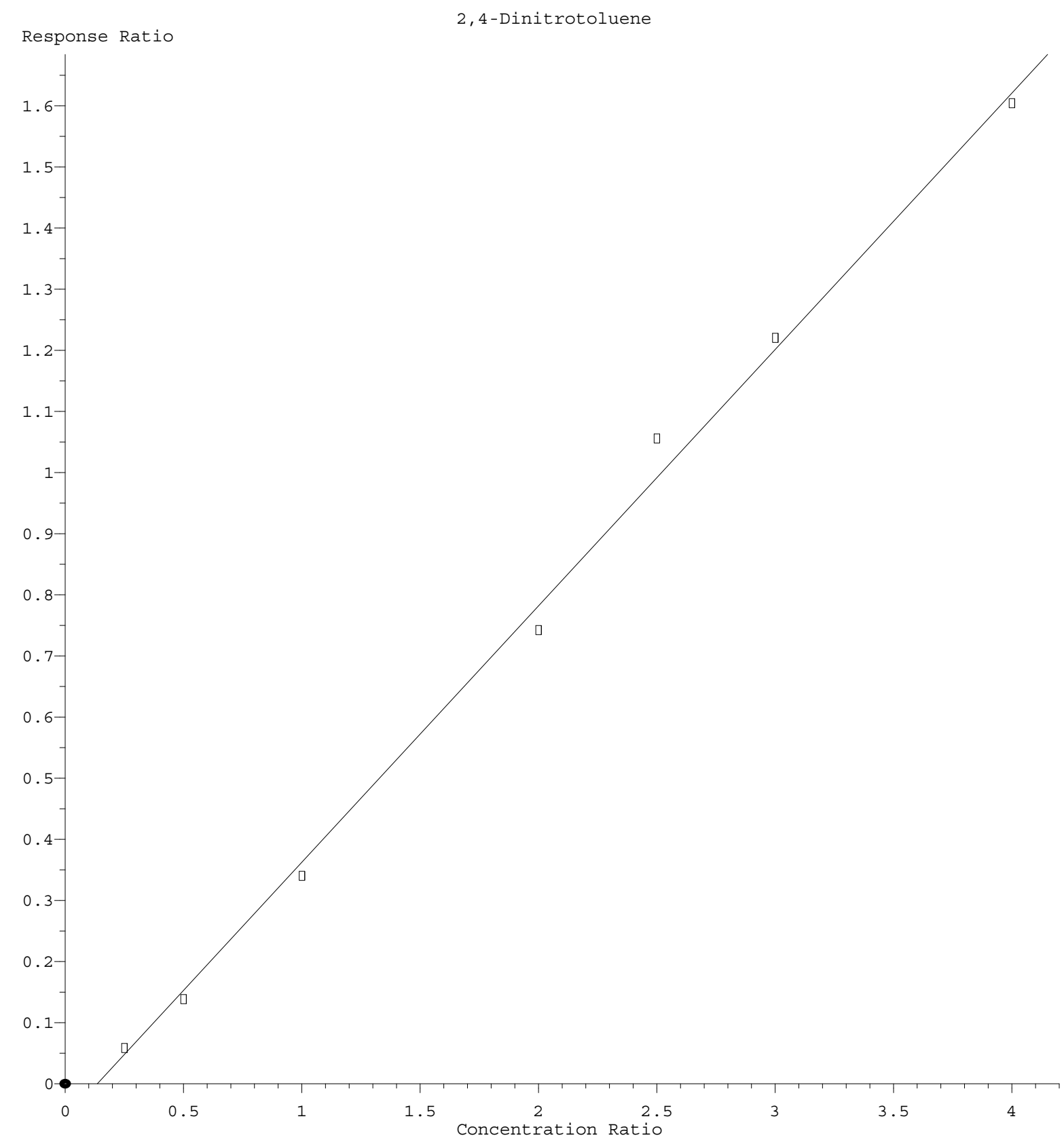
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.590	0.569	0.611	0.622	0.700	0.683	0.677	0.636	7.93
41)	P	Hexachlorocycl...		0.320	0.361	0.396	0.450	0.454	0.459	0.407	14.08
42)	S	2,4,6-Tribromo...	0.182	0.195	0.230	0.248	0.285	0.280	0.280	0.243	17.40
43)	C	2,4,6-Trichlor...	0.330	0.335	0.377	0.394	0.443	0.434	0.427	0.391	11.81
44)		2,4,5-Trichlor...	0.359	0.376	0.415	0.430	0.484	0.470	0.460	0.428	11.13
45)	S	2-Fluorobiphenyl	1.572	1.538	1.611	1.592	1.753	1.697	1.575	1.620	4.74
46)		1,1'-Biphenyl	1.464	1.419	1.479	1.441	1.586	1.527	1.471	1.484	3.79
47)		2-Chloronaphth...	1.164	1.126	1.187	1.150	1.267	1.217	1.171	1.183	3.93
48)		2-Nitroaniline	0.197	0.211	0.253	0.278	0.312	0.302	0.295	0.264	17.17
49)		Acenaphthylene	1.645	1.658	1.795	1.775	1.956	1.875	1.811	1.788	6.21
50)		Dimethylphthalate	1.323	1.285	1.368	1.351	1.506	1.432	1.373	1.377	5.29
51)		2,6-Dinitrotol...	0.196	0.224	0.263	0.273	0.308	0.297	0.289	0.264	15.41
52)	C	Acenaphthene	1.086	1.050	1.126	1.111	1.231	1.196	1.158	1.137	5.51
53)		3-Nitroaniline	0.204	0.231	0.278	0.294	0.330	0.319	0.311	0.281	16.81
54)	P	2,4-Dinitrophenol		0.074	0.097	0.117	0.140	0.147	0.150	0.121	25.40
55)		Dibenzofuran	1.747	1.674	1.756	1.709	1.880	1.784	1.711	1.751	3.84
56)	P	4-Nitrophenol		0.182	0.225	0.245	0.276	0.265	0.258	0.242	14.15
57)		2,4-Dinitrotol...	0.234	0.277	0.340	0.371	0.422	0.407	0.401	0.350	20.31
58)		Fluorene	1.348	1.328	1.428	1.419	1.582	1.522	1.470	1.443	6.29
59)		2,3,4,6-Tetrac...	0.299	0.306	0.355	0.365	0.405	0.397	0.392	0.360	11.92
60)		Diethylphthalate	1.217	1.210	1.319	1.309	1.454	1.379	1.320	1.315	6.51
61)		4-Chlorophenyl...	0.687	0.673	0.733	0.747	0.839	0.811	0.790	0.754	8.28
62)		4-Nitroaniline	0.192	0.228	0.284	0.311	0.350	0.331	0.320	0.288	20.10
63)		Azobenzene	1.085	1.116	1.234	1.208	1.335	1.272	1.204	1.208	7.15
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.057	0.077	0.094	0.109	0.113	0.117	0.095	24.90
66)	c	n-Nitrosodiphe...	0.572	0.577	0.620	0.623	0.678	0.658	0.654	0.626	6.49
67)		4-Bromophenyl-...	0.196	0.194	0.211	0.218	0.242	0.240	0.241	0.220	9.61
68)		Hexachlorobenzene	0.239	0.233	0.253	0.256	0.283	0.279	0.278	0.260	7.78
69)		Atrazine	0.166	0.175	0.199	0.211	0.232	0.228	0.227	0.206	12.95
70)	C	Pentachlorophenol		0.122	0.145	0.161	0.181	0.180	0.183	0.162	15.23
71)		Phenanthrene	1.119	1.070	1.119	1.101	1.206	1.163	1.143	1.132	3.91
72)		Anthracene	1.028	1.017	1.109	1.117	1.233	1.204	1.179	1.127	7.44
73)		Carbazole	0.939	0.944	1.009	1.010	1.108	1.073	1.052	1.019	6.23
74)		Di-n-butylphth...	0.954	0.961	1.091	1.140	1.252	1.216	1.196	1.116	10.76
75)	C	Fluoranthene	1.088	1.079	1.182	1.233	1.366	1.339	1.327	1.230	9.67
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.370	0.521	0.553	0.601	0.552	0.464	0.510	16.08
78)		Pyrene	1.198	1.177	1.260	1.260	1.388	1.366	1.316	1.281	6.26
79)	S	Terphenyl-d14	1.095	1.110	1.225	1.258	1.298	1.094	0.878	1.137	12.43
80)		Butylbenzylpht...	0.317	0.334	0.401	0.441	0.492	0.491	0.479	0.422	17.39
81)		Benzo(a)anthra...	1.204	1.202	1.282	1.282	1.428	1.379	1.345	1.303	6.57
82)		3,3'-Dichlorob...		0.351	0.406	0.429	0.498	0.487	0.465	0.439	12.66
83)		Chrysene	1.162	1.153	1.200	1.209	1.327	1.303	1.249	1.229	5.45
84)		Bis(2-ethylhex...	0.499	0.546	0.658	0.705	0.780	0.763	0.742	0.670	16.33
85)	c	Di-n-octyl pht...		0.742	0.931	1.058	1.193	1.194	1.183	1.050	17.44

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM070925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.208	1.238	1.374	1.415	1.603	1.564	1.551	1.422	11.17
88)		Benzo(b)fluora...	1.090	1.075	1.177	1.230	1.368	1.344	1.327	1.230	9.83
89)		Benzo(k)fluora...	1.105	1.138	1.247	1.263	1.444	1.387	1.350	1.276	9.86
90)	C	Benzo(a)pyrene	0.962	0.985	1.099	1.156	1.314	1.281	1.264	1.152	12.41
91)		Dibenzo(a,h)an...	1.022	1.035	1.159	1.193	1.352	1.320	1.301	1.198	11.23
92)		Benzo(g,h,i)pe...	0.992	1.001	1.097	1.121	1.263	1.232	1.216	1.132	9.73

(#) = Out of Range



Response = 4.196e-001 * Amt - 5.715e-002
Coef of Det (r^2) = 0.996987 Curve Fit: wlr(1/a)
Method: Q2502-TCLP BNA\svoasrv\HPCHEM1\BNA M\Methods\8270-BM070925.M
Calibration Table Last Updated: Tue Jul 08 18:32:25 2025

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050377.D
Acq On : 08 Jul 2025 12:39
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 08 18:19:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

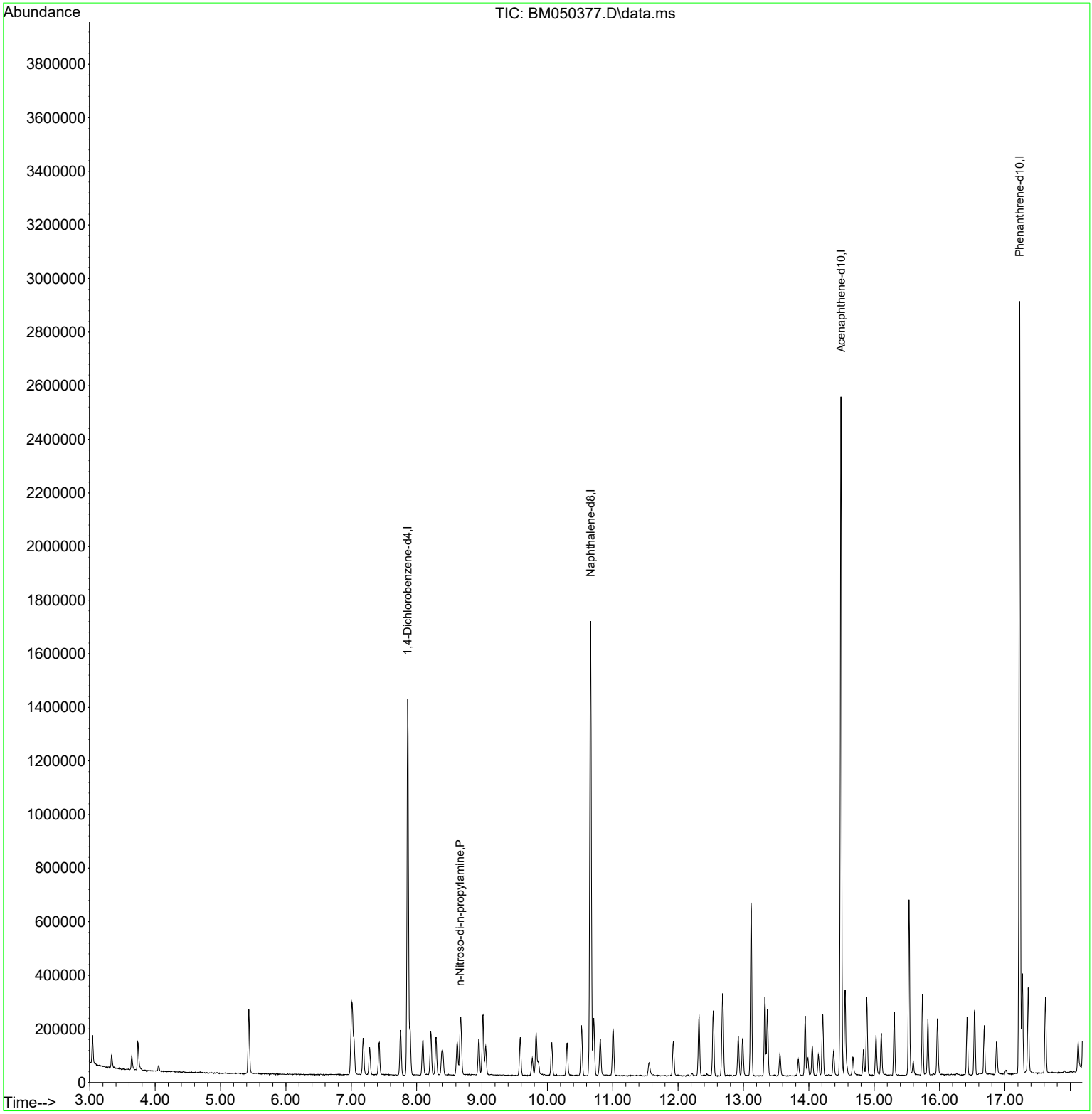
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	378493	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	1426576	20.000	ng	0.00
39) Acenaphthene-d10	14.492	164	874661	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	1666049	20.000	ng	0.00
76) Chrysene-d12	21.450	240	1594000	20.000	ng	0.00
86) Perylene-d12	24.491	264	1645810	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	37375	2.226	ng	100

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050377.D
Acq On : 08 Jul 2025 12:39
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

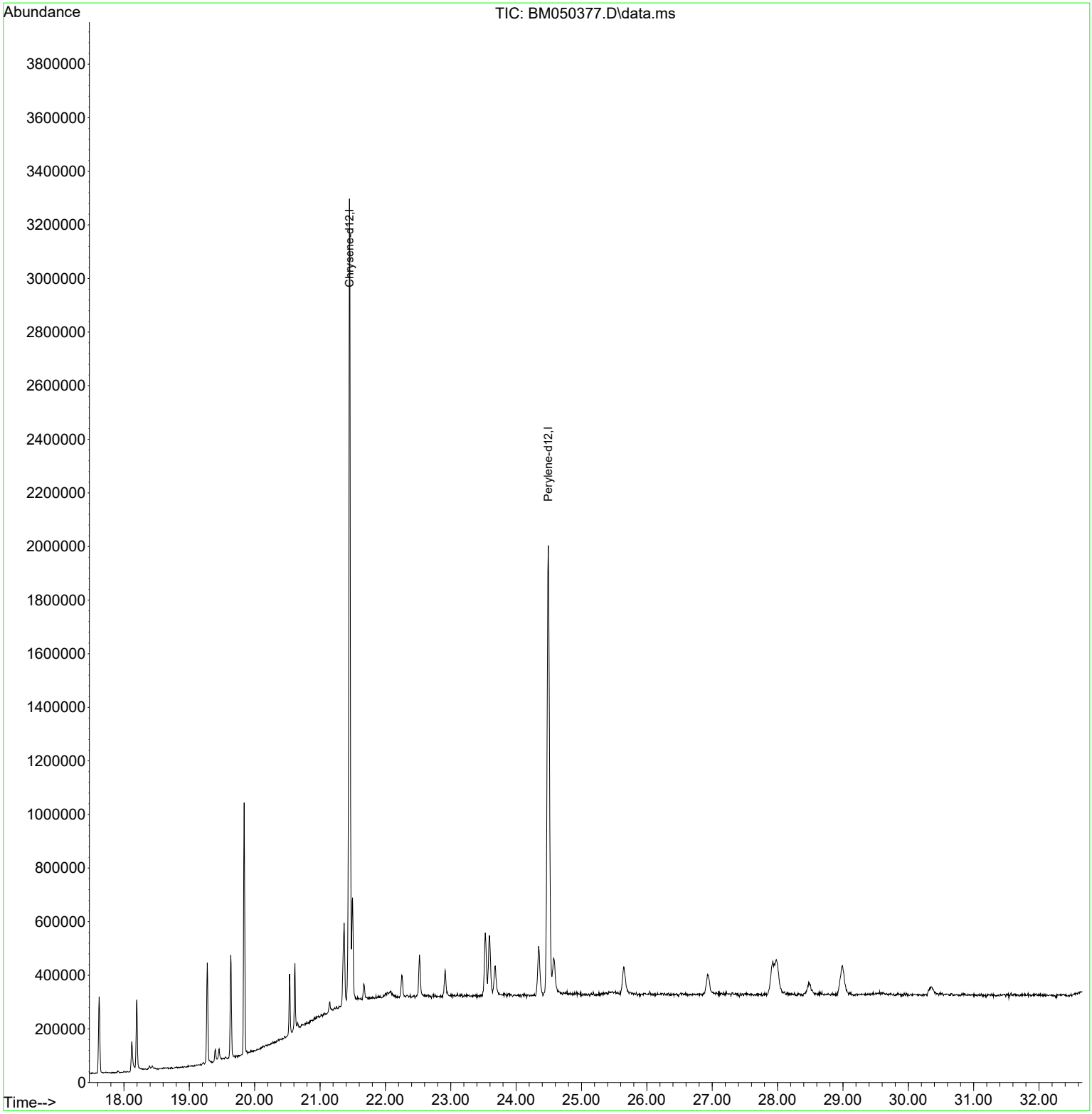
Quant Time: Jul 08 18:19:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

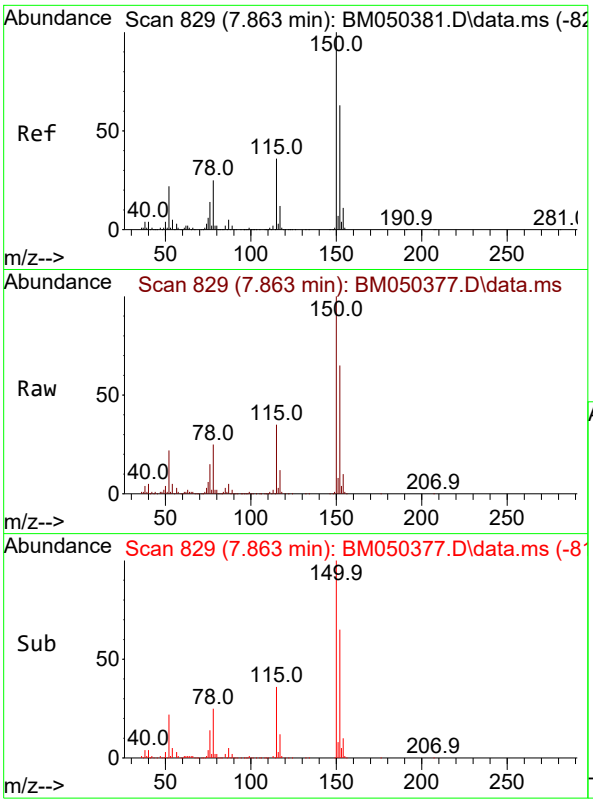


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050377.D
Acq On : 08 Jul 2025 12:39
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Quant Time: Jul 08 18:19:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration



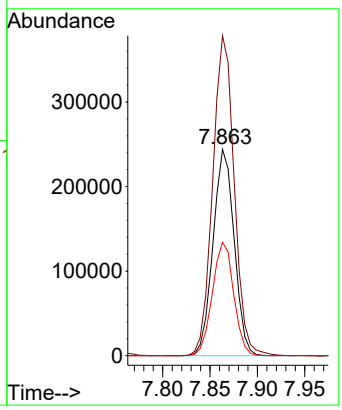


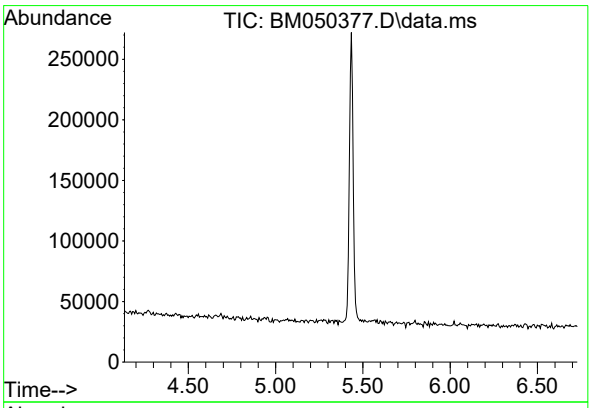
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 378493

Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.4
115	55.0	45.8	68.8



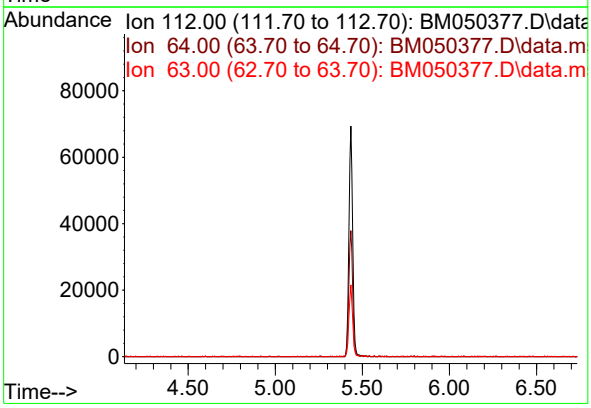


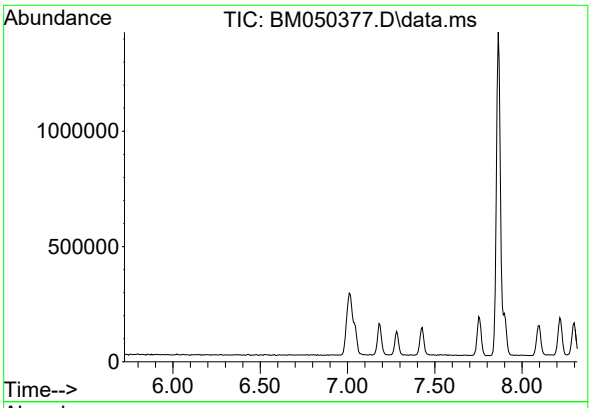
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.43 min

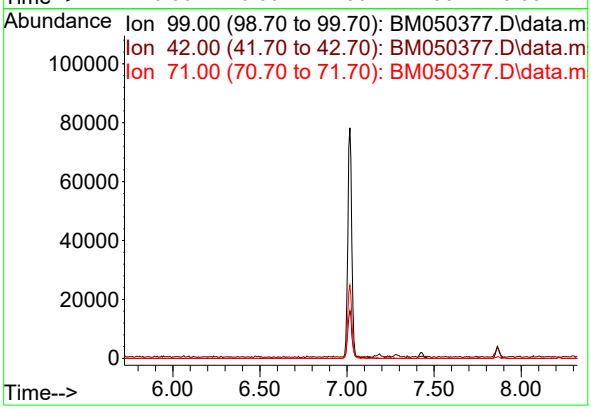
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	56.9
63	30.3







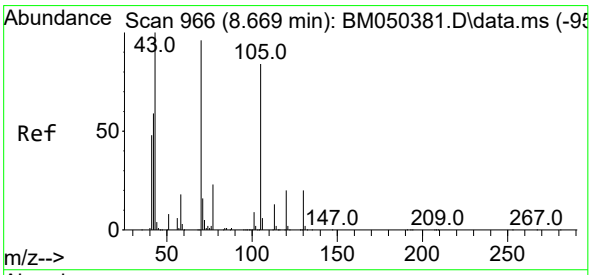
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 7.02 min

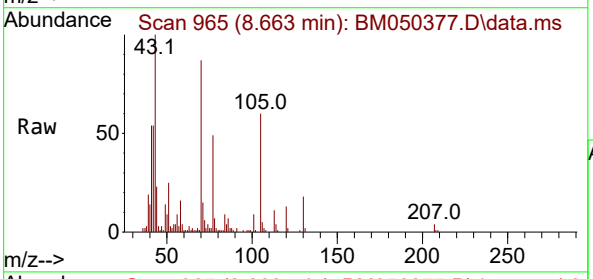
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

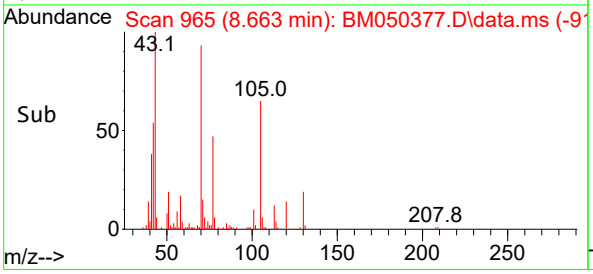
Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	18.8
71	32.4



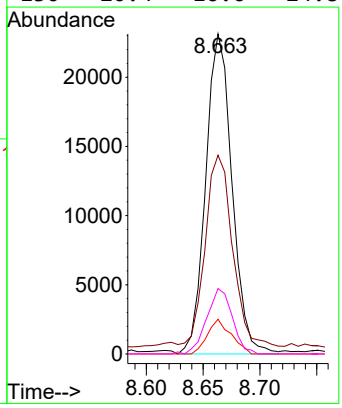


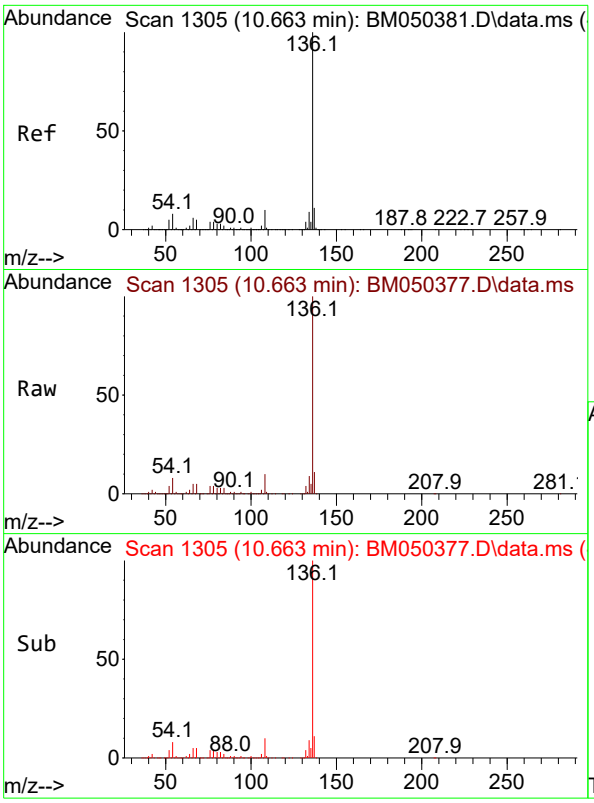


#19
n-Nitroso-di-n-propylamine
Concen: 2.226 ng
RT: 8.663 min Scan# 965
Delta R.T. -0.006 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion: 70 Resp: 37375

Ion	Ratio	Lower	Upper
70	100		
42	62.1	49.7	74.5
101	10.8	7.7	11.5
130	20.4	16.6	24.8



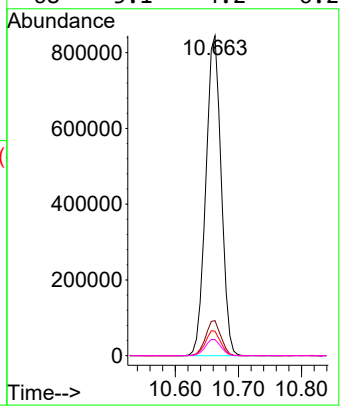


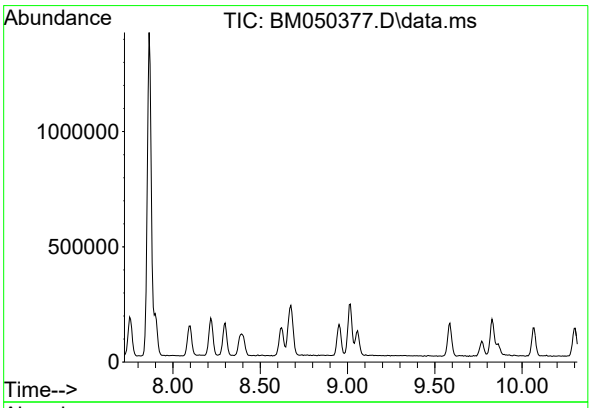
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 1426576

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.7	6.3	9.5
68	5.1	4.2	6.2



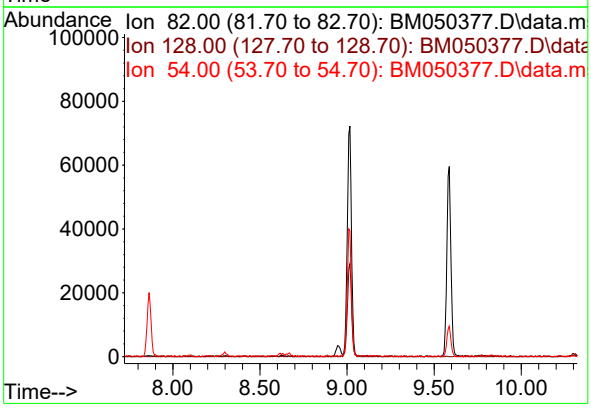


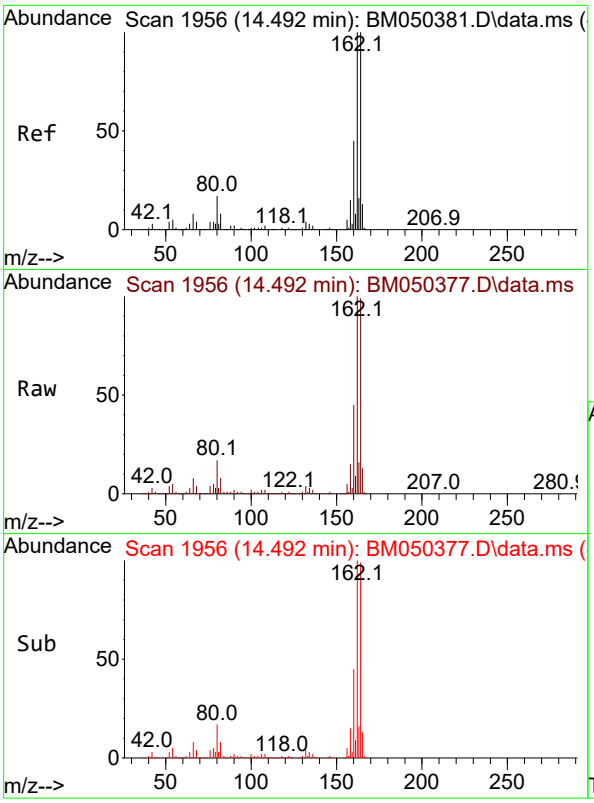
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 9.02 min

Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	44.0
54	51.9



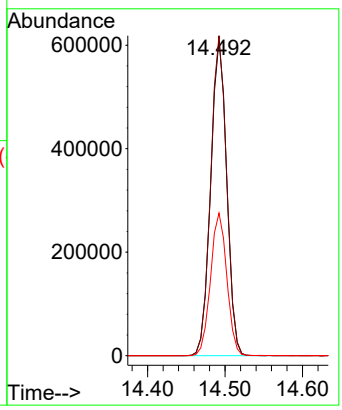


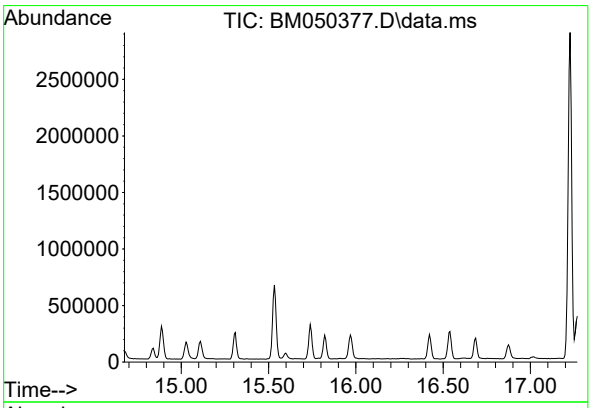
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 874661

Ion	Ratio	Lower	Upper
164	100		
162	101.5	79.9	119.9
160	45.2	36.2	54.4



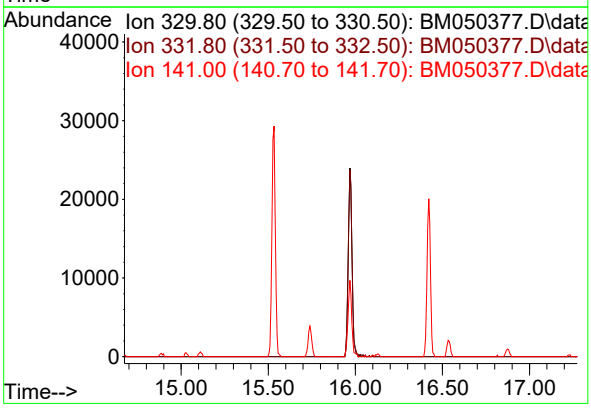


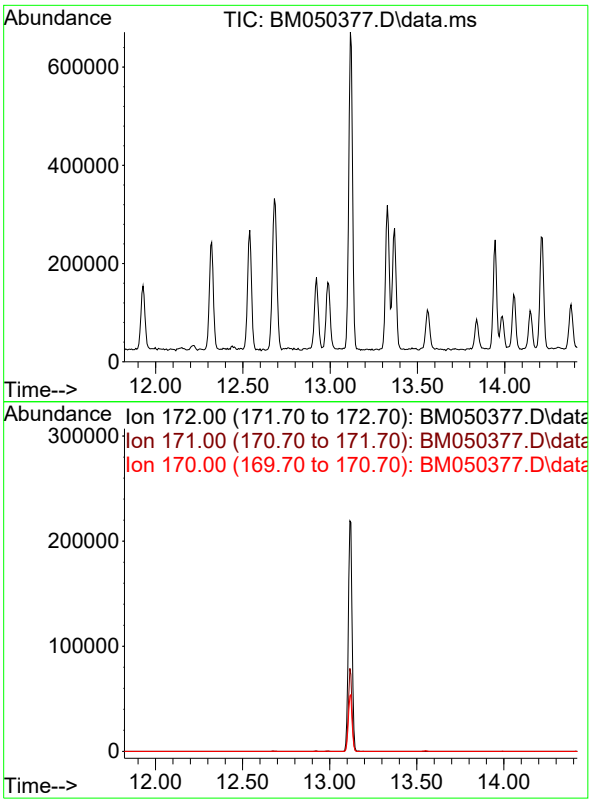
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.97 min

Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	96.1
141	34.2





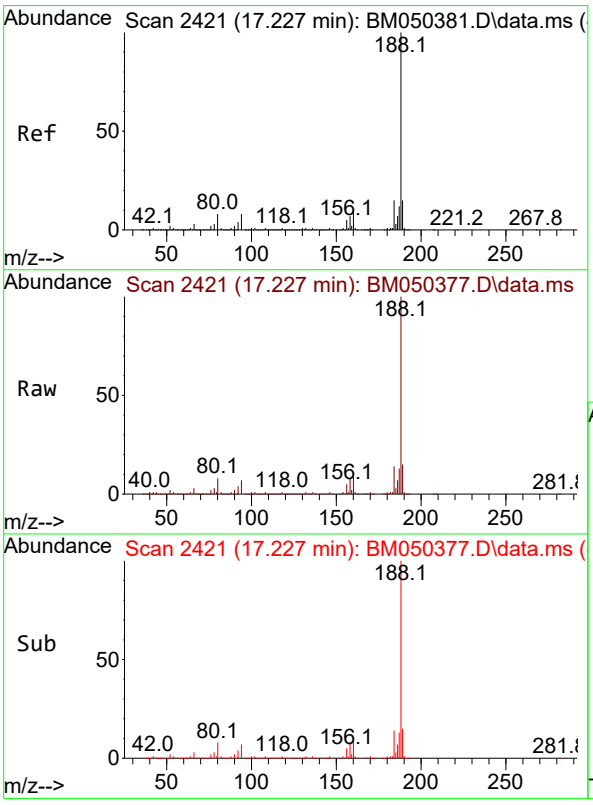
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 13.12 min

Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

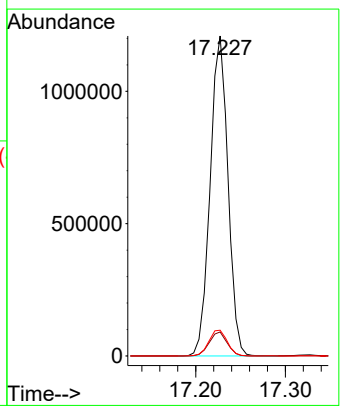
Sig	Exp Ratio
172	100
171	34.6
170	23.5

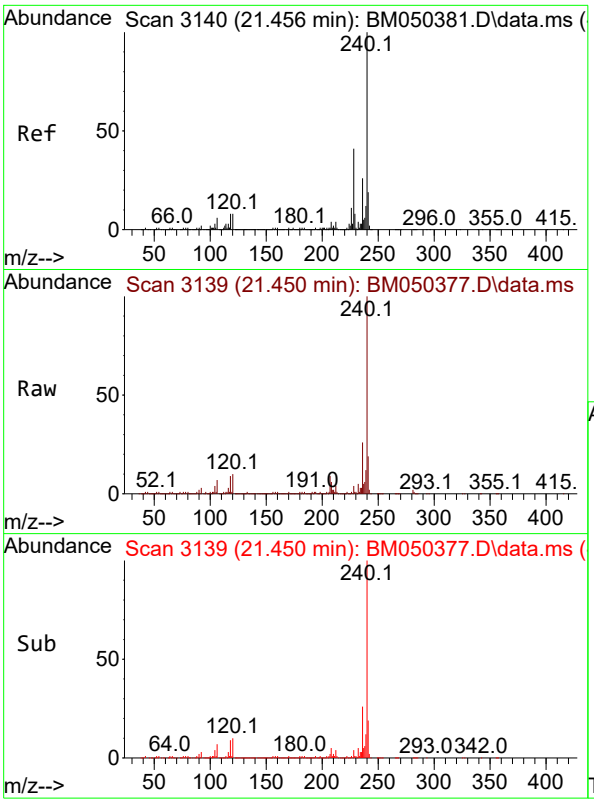


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion:188 Resp: 1666049

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.0	9.0
80	8.0	6.5	9.7



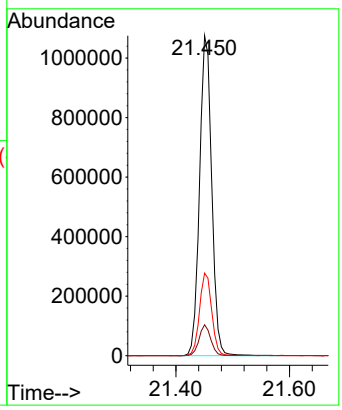


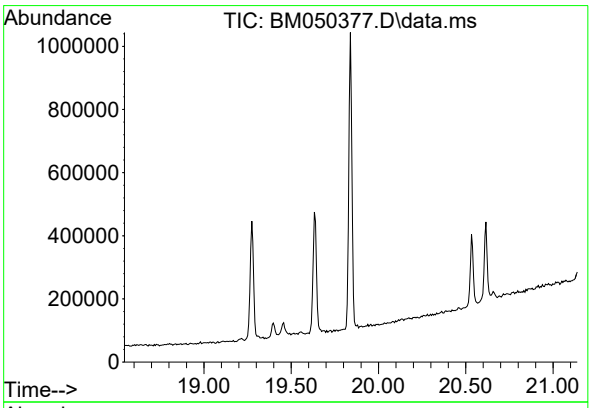
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.450 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 1594000

Ion	Ratio	Lower	Upper
240	100		
120	9.6	6.7	10.1
236	25.8	20.7	31.1



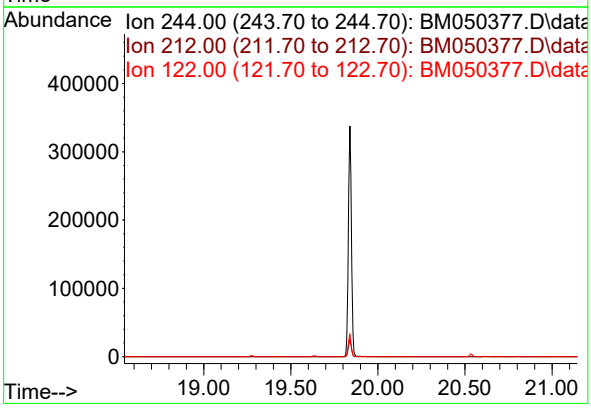


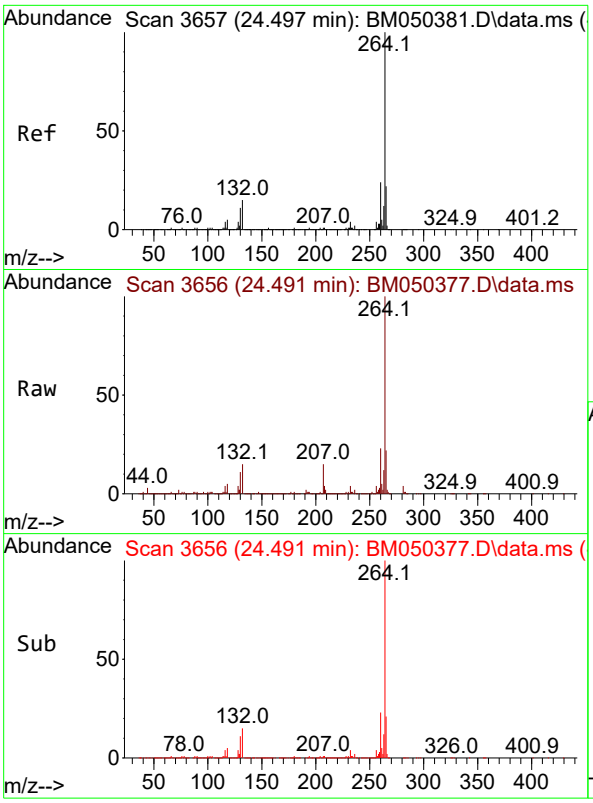
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 19.84 min

Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	7.1
122	7.7



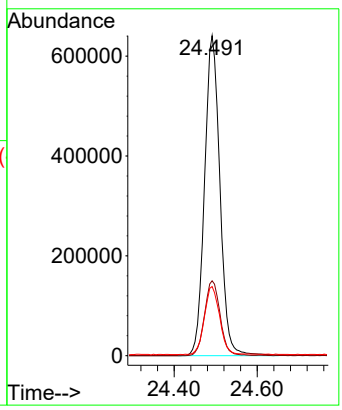


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.491 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050377.D
Acq: 08 Jul 2025 12:39

Instrument :
BNA_M
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 1645810

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	21.6	17.8	26.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050378.D
Acq On : 08 Jul 2025 13:19
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Quant Time: Jul 08 18:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.869	152	332042	20.000	ng		0.00
21) Naphthalene-d8	10.663	136	1221582	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	768894	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	1453955	20.000	ng		0.00
76) Chrysene-d12	21.450	240	1431554	20.000	ng		0.00
86) Perylene-d12	24.491	264	1410719	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	186878	9.688	ng		0.00
7) Phenol-d6	7.016	99	226950	9.333	ng		0.00
23) Nitrobenzene-d5	9.016	82	221107	9.234	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	69925	7.485	ng		0.00
45) 2-Fluorobiphenyl	13.116	172	604282	9.705	ng		0.00
79) Terphenyl-d14	19.839	244	783562	9.630	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.334	88	41862	5.278	ng		99
3) Pyridine	3.734	79	103718	4.981	ng		94
6) Aniline	7.187	93	148080	4.745	ng		99
8) 2-Chlorophenol	7.428	128	94226	4.632	ng		98
10) Phenol	7.045	94	121196	4.778	ng		100
11) bis(2-Chloroethyl)ether	7.281	93	99772	4.912	ng		97
12) 1,3-Dichlorobenzene	7.757	146	124875	5.049	ng		99
13) 1,4-Dichlorobenzene	7.898	146	128887	5.103	ng		98
14) 1,2-Dichlorobenzene	8.216	146	122972	5.086	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.392	45	152357	5.092	ng		99
17) 2-Methylphenol	8.298	107	76571	4.655	ng		97
18) Hexachloroethane	8.951	117	42990	4.840	ng		97
19) n-Nitroso-di-n-propyla...	8.663	70	66842	4.537	ng		96
22) Acetophenone	8.681	105	150473	4.927	ng	#	98
24) Nitrobenzene	9.057	77	101661	4.758	ng		97
25) Isophorone	9.586	82	174388	4.488	ng		99
26) 2-Nitrophenol	9.769	139	32805	3.767	ng		91
27) 2,4-Dimethylphenol	9.828	122	90013	4.858	ng		99
28) bis(2-Chloroethoxy)met...	10.069	93	124150	4.822	ng		97
29) 2,4-Dichlorophenol	10.304	162	84485	4.438	ng		97
30) 1,2,4-Trichlorobenzene	10.522	180	112916	4.958	ng		98
31) Naphthalene	10.710	128	315550	5.086	ng		99
33) 4-Chloroaniline	10.810	127	121575	4.635	ng		98
34) Hexachlorobutadiene	11.010	225	67689	4.870	ng		98
36) 4-Chloro-3-methylphenol	11.927	107	78716	4.428	ng		99
37) 2-Methylnaphthalene	12.322	142	186482	4.760	ng		98
38) 1-Methylnaphthalene	12.539	142	198866	4.796	ng		99
40) 1,2,4,5-Tetrachloroben...	12.686	216	113496	4.642	ng		99
43) 2,4,6-Trichlorophenol	12.922	196	63524	4.221	ng		100
44) 2,4,5-Trichlorophenol	12.992	196	68958	4.195	ng		98
46) 1,1'-Biphenyl	13.327	154	281496	4.934	ng		99
47) 2-Chloronaphthalene	13.369	162	223672	4.918	ng		99
48) 2-Nitroaniline	13.563	65	37953	3.738	ng		97
49) Acenaphthylene	14.216	152	316292	4.601	ng		98
50) Dimethylphthalate	13.945	163	254362	4.805	ng		99
51) 2,6-Dinitrotoluene	14.057	165	37711	3.710	ng		88

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050378.D
Acq On : 08 Jul 2025 13:19
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Quant Time: Jul 08 18:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

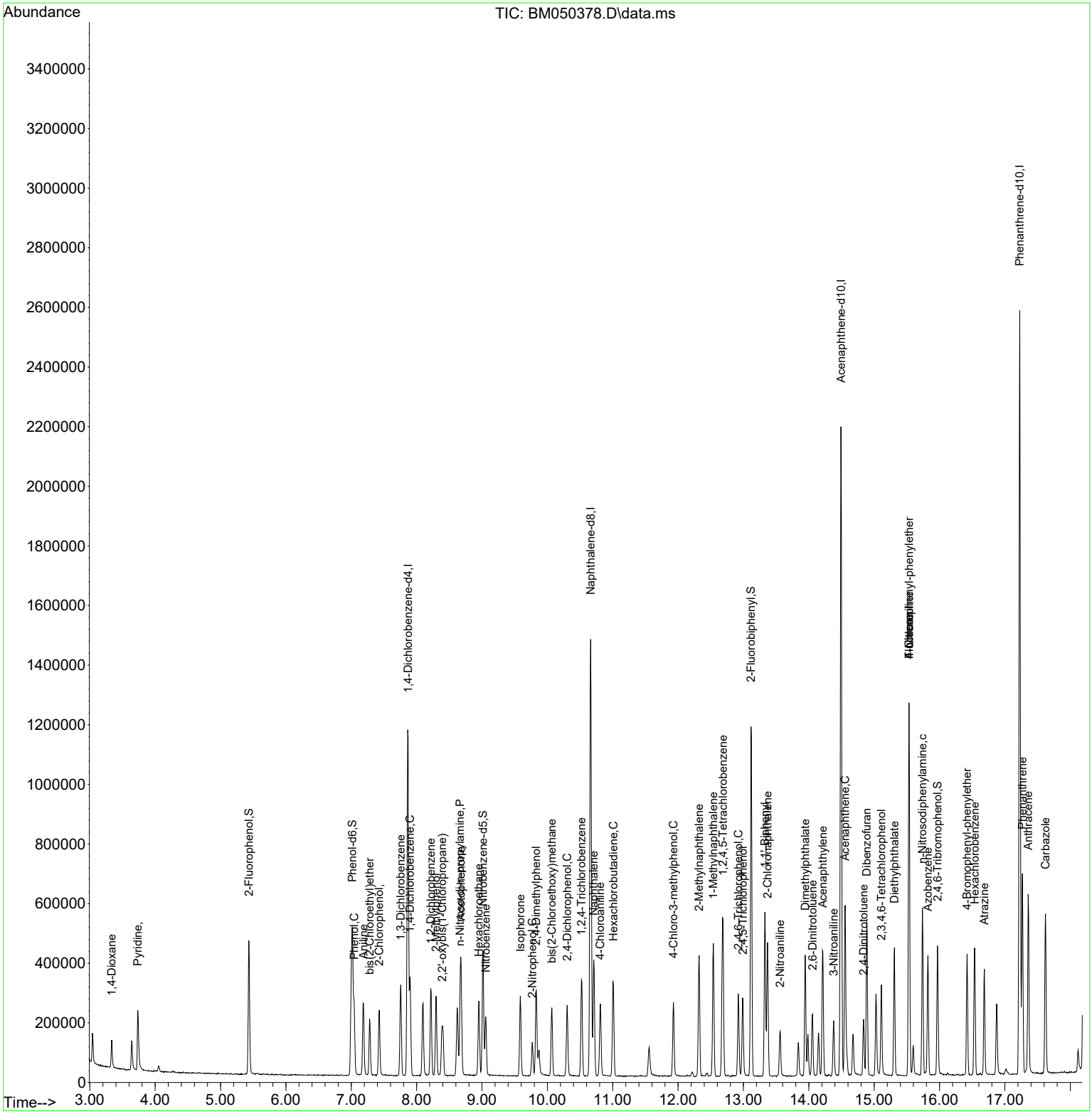
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) Acenaphthene	14.557	154	208840	4.779	ng		97
53) 3-Nitroaniline	14.380	138	39220	3.628	ng	#	85
55) Dibenzofuran	14.886	168	335867	4.988	ng		99
57) 2,4-Dinitrotoluene	14.839	165	44983	5.513	ng	#	87
58) Fluorene	15.533	166	259083	4.671	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.110	232	57532	4.158	ng		95
60) Diethylphthalate	15.310	149	233863	4.625	ng		98
61) 4-Chlorophenyl-phenyle...	15.533	204	132153	4.557	ng		94
62) 4-Nitroaniline	15.533	138	36922	5.398	ng		80
63) Azobenzene	15.821	77	208493	4.490	ng		96
66) n-Nitrosodiphenylamine	15.739	169	207747	4.566	ng		98
67) 4-Bromophenyl-phenylether	16.421	248	71279	4.450	ng		92
68) Hexachlorobenzene	16.539	284	86781	4.587	ng		99
69) Atrazine	16.686	200	60444	4.046	ng		97
71) Phenanthrene	17.268	178	406647	4.943	ng		99
72) Anthracene	17.357	178	373674	4.563	ng		99
73) Carbazole	17.621	167	341196	4.605	ng		99
74) Di-n-butylphthalate	18.198	149	346654	4.274	ng		99
75) Fluoranthene	19.274	202	395390	4.421	ng		98
78) Pyrene	19.633	202	428758	4.676	ng		100
80) Butylbenzylphthalate	20.533	149	113580	3.757	ng		94
81) Benzo(a)anthracene	21.433	228	430980	4.620	ng		100
83) Chrysene	21.497	228	415885	4.727	ng		98
84) Bis(2-ethylhexyl)phtha...	21.368	149	178701	3.724	ng		98
87) Indeno(1,2,3-cd)pyrene	27.921	276	426152	4.249	ng		95
88) Benzo(b)fluoranthene	23.527	252	384470	4.431	ng		98
89) Benzo(k)fluoranthene	23.591	252	389878	4.330	ng	#	97
90) Benzo(a)pyrene	24.344	252	339308	4.177	ng		97
91) Dibenzo(a,h)anthracene	27.991	278	360576	4.269	ng		98
92) Benzo(g,h,i)perylene	28.985	276	349804	4.382	ng		97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050378.D
Acq On : 08 Jul 2025 13:19
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

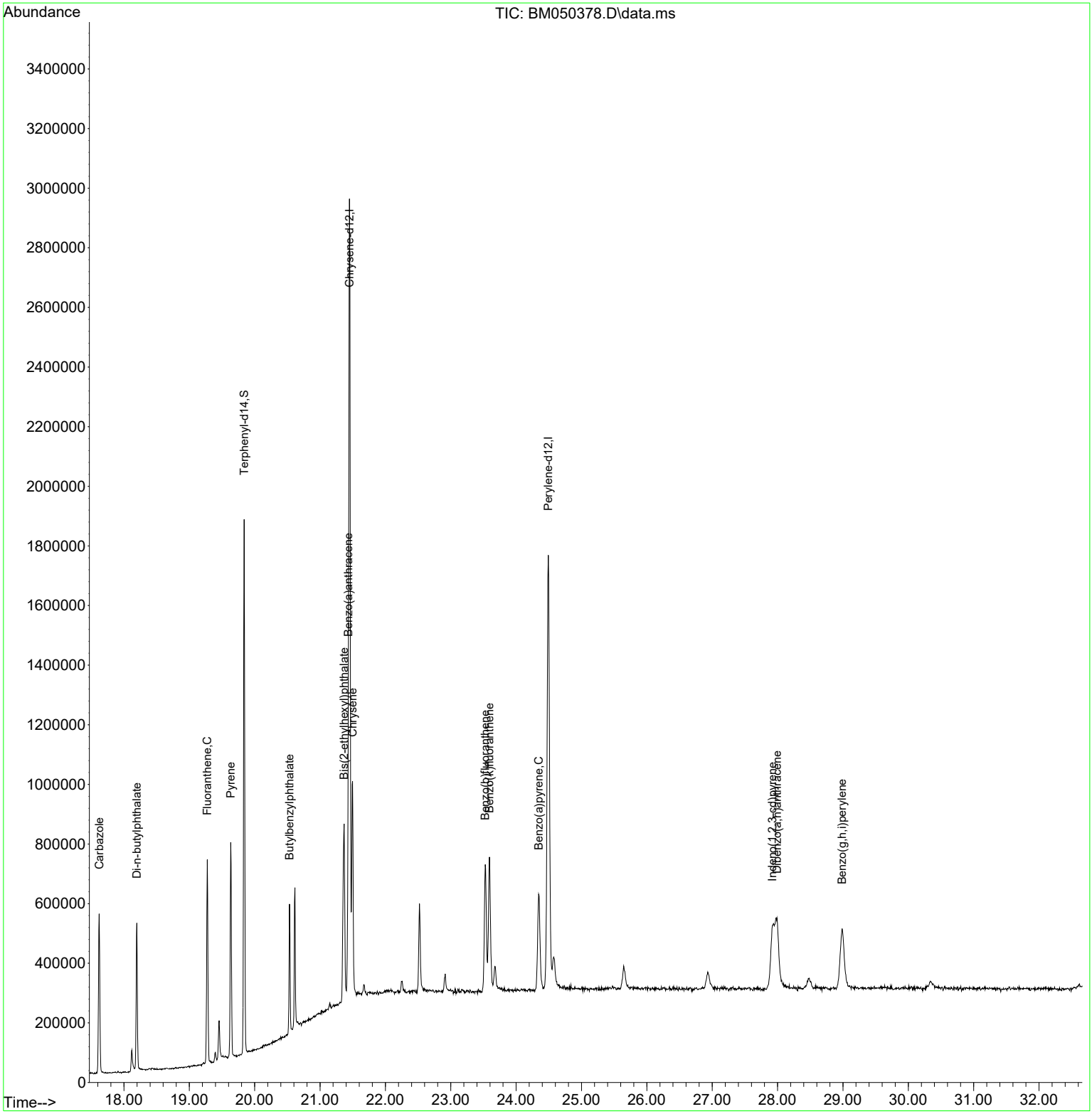
Quant Time: Jul 08 18:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

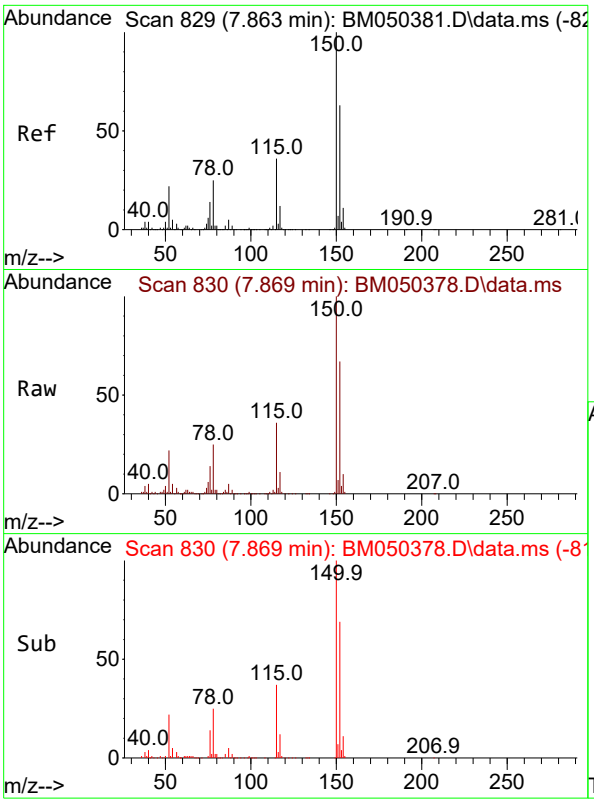


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050378.D
Acq On : 08 Jul 2025 13:19
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Quant Time: Jul 08 18:19:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration



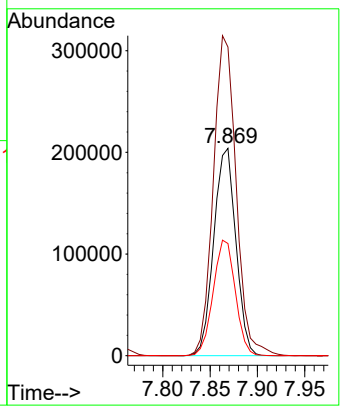


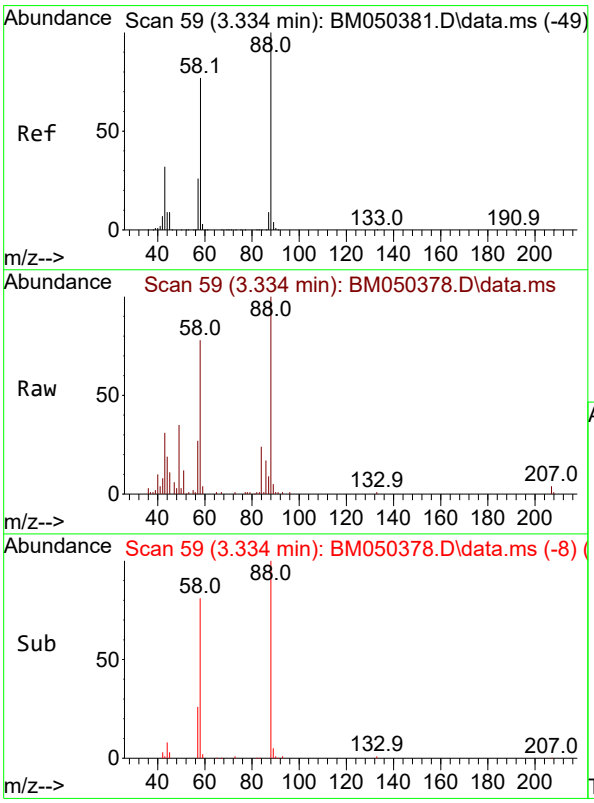
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.869 min Scan# 8
Delta R.T. 0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 332042

Ion	Ratio	Lower	Upper
152	100		
150	148.8	126.2	189.4
115	54.1	45.8	68.8

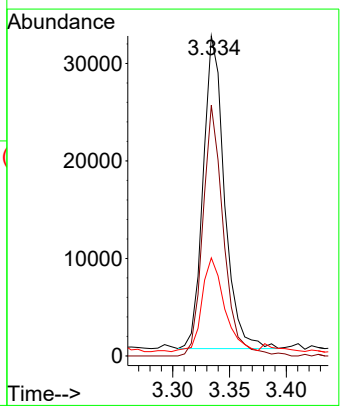


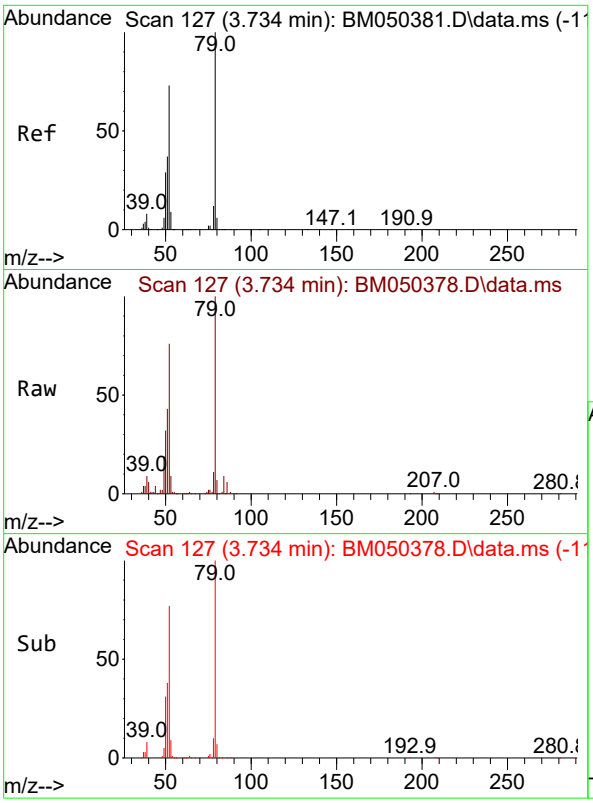


#2
1,4-Dioxane
Concen: 5.278 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 88 Resp: 41862

Ion	Ratio	Lower	Upper
88	100		
58	77.6	61.0	91.6
43	31.5	24.6	37.0



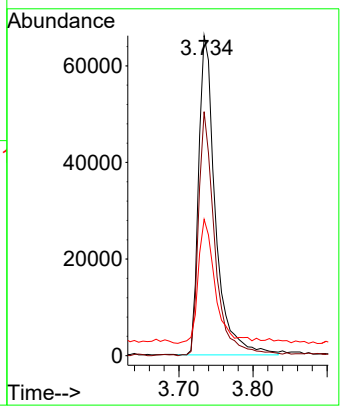


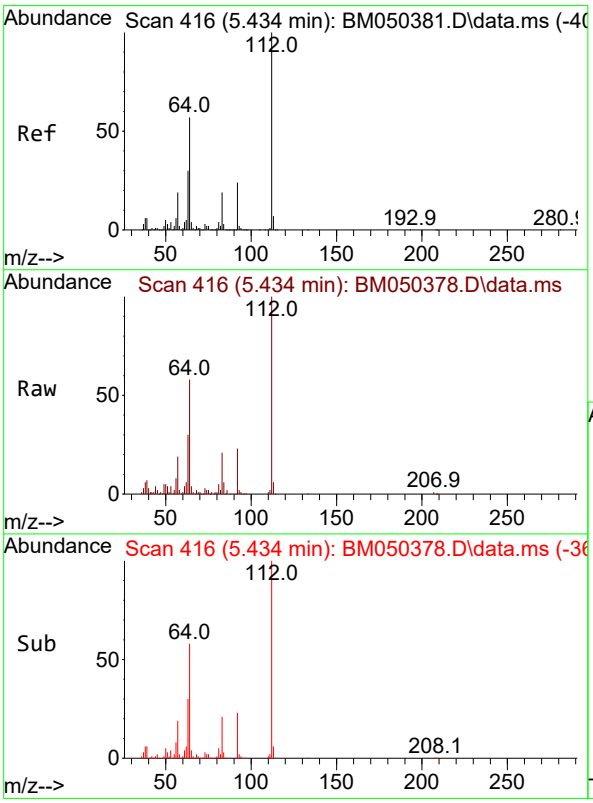
#3
Pyridine
Concen: 4.981 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 103718

Ion	Ratio	Lower	Upper
79	100		
52	76.3	58.3	87.5
51	42.6	29.6	44.4

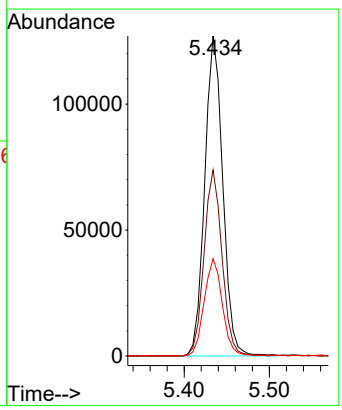


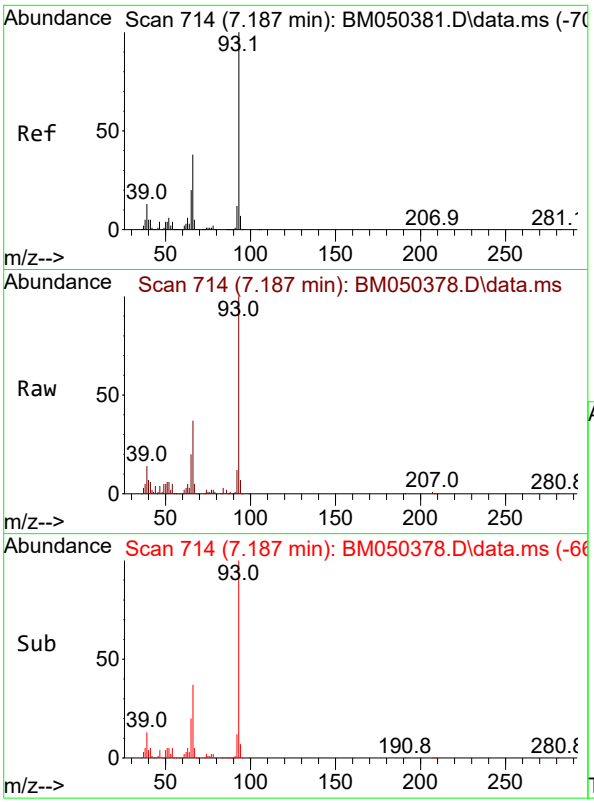


#5
2-Fluorophenol
Concen: 9.688 ng
RT: 5.434 min Scan# 416
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:112 Resp: 186878

Ion	Ratio	Lower	Upper
112	100		
64	58.1	45.5	68.3
63	30.4	24.2	36.4



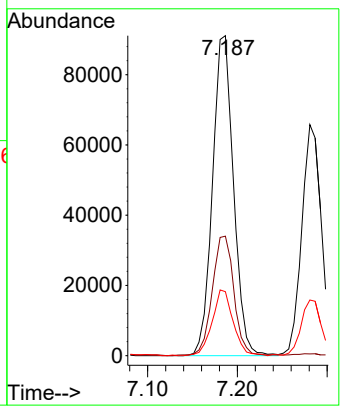


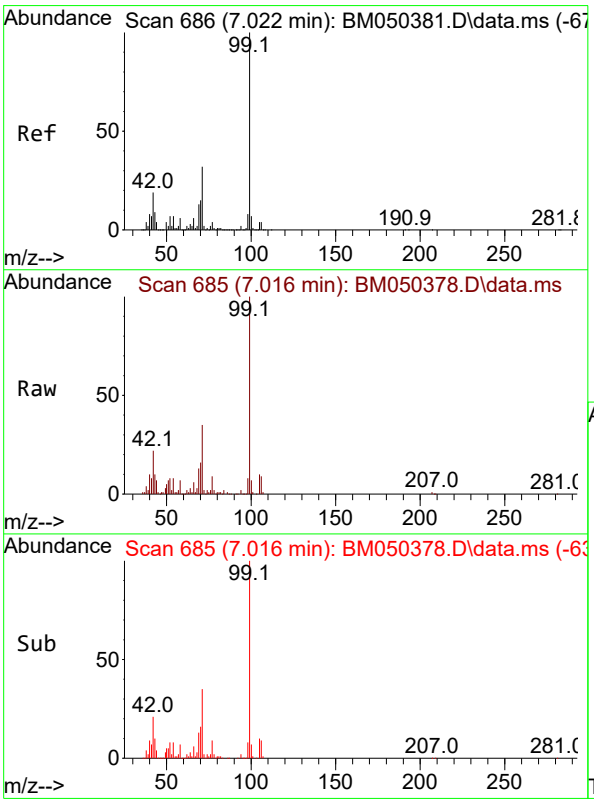
#6
Aniline
Concen: 4.745 ng
RT: 7.187 min Scan# 71
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 148080

Ion	Ratio	Lower	Upper
93	100		
66	37.4	30.5	45.7
65	20.0	15.9	23.9

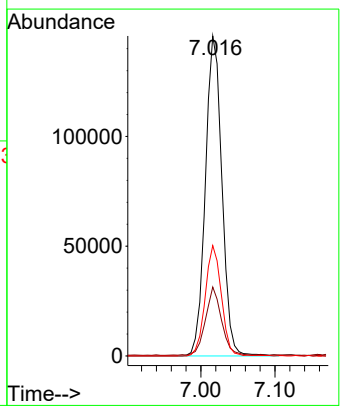


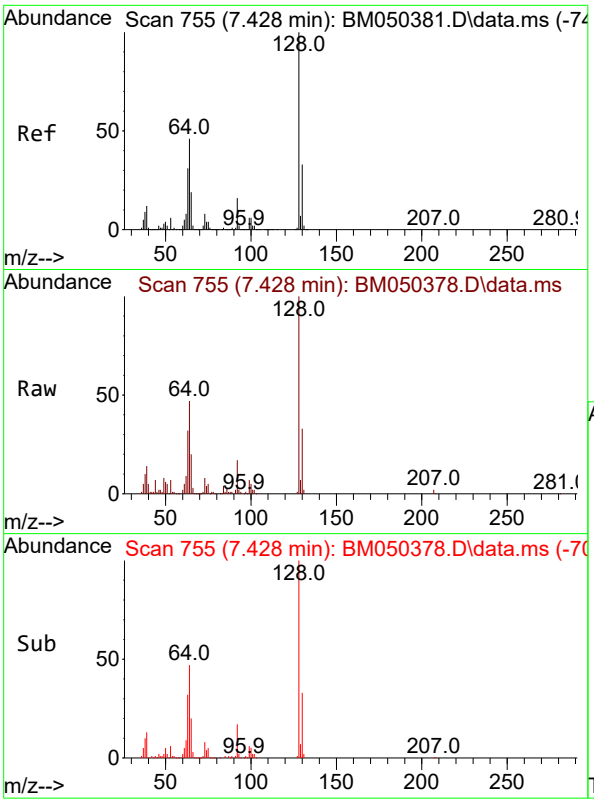


#7
Phenol-d6
Concen: 9.333 ng
RT: 7.016 min Scan# 685
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 99 Resp: 226950

Ion	Ratio	Lower	Upper
99	100		
42	21.6	15.0	22.6
71	34.5	25.9	38.9



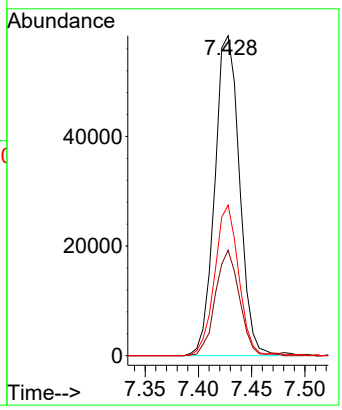


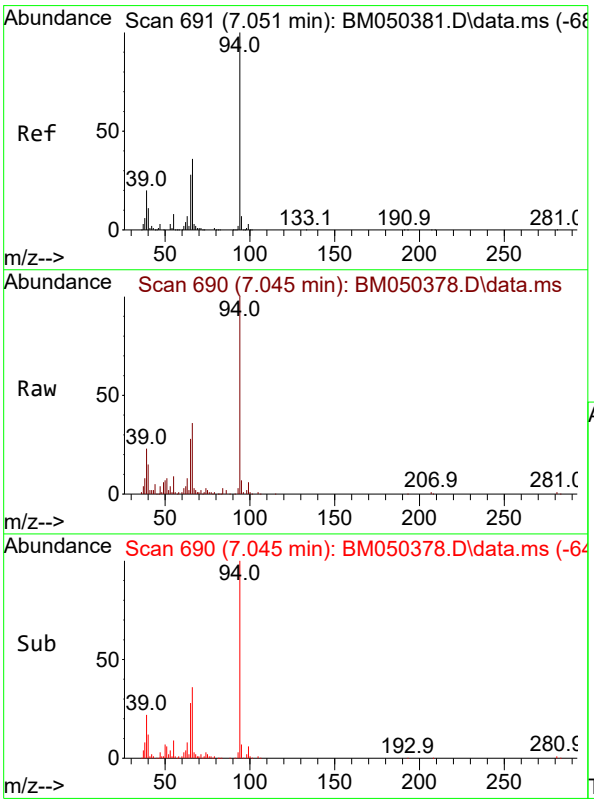
#8
2-Chlorophenol
Concen: 4.632 ng
RT: 7.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 94226

Ion	Ratio	Lower	Upper
128	100		
130	33.0	13.3	53.3
64	47.1	25.6	65.6

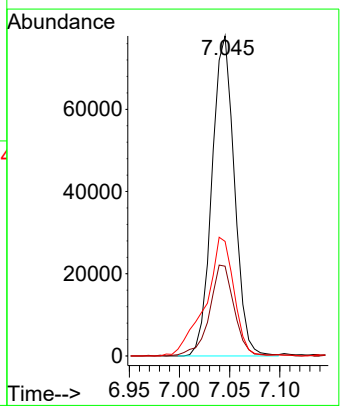


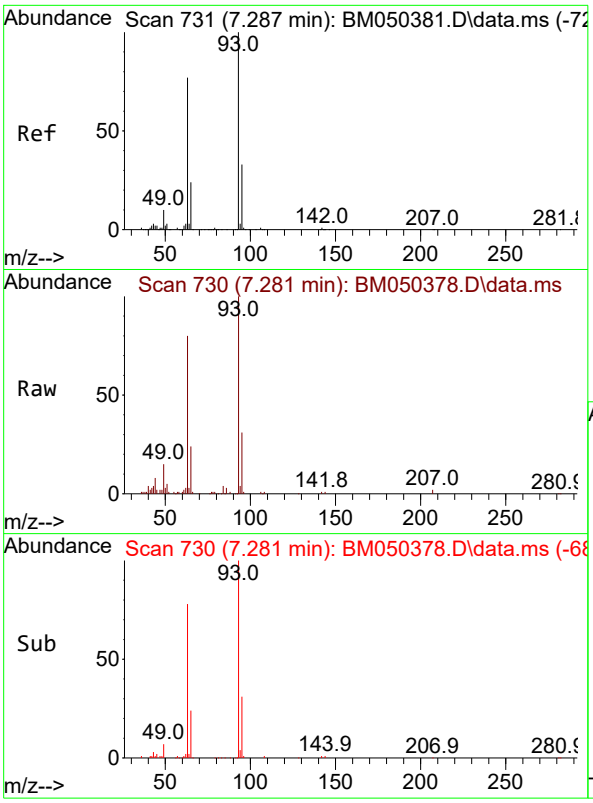


#10
Phenol
Concen: 4.778 ng
RT: 7.045 min Scan# 690
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 94 Resp: 121196

Ion	Ratio	Lower	Upper
94	100		
65	28.0	8.1	48.1
66	35.8	15.8	55.8



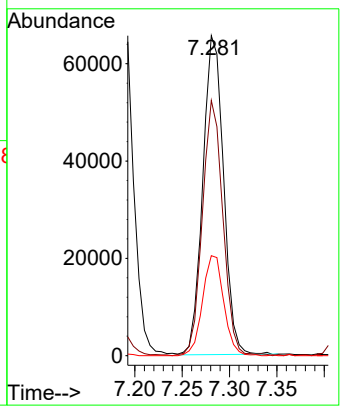


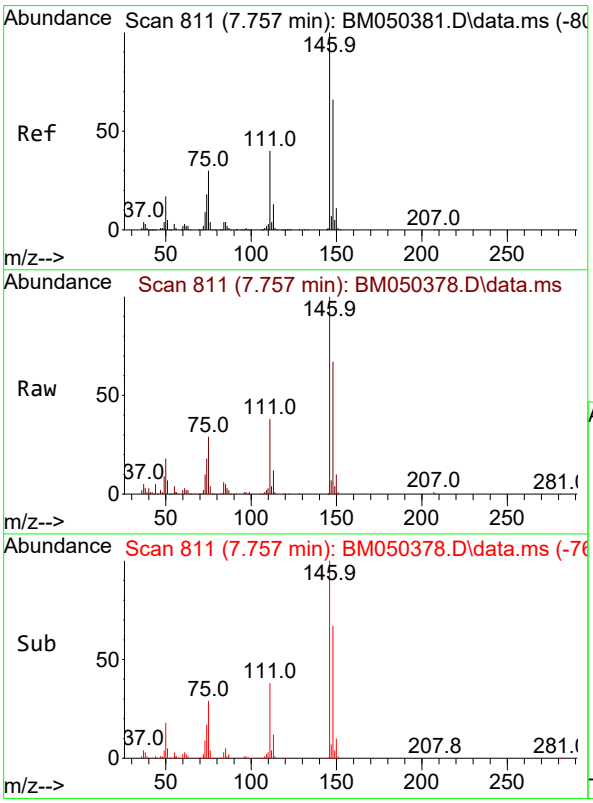
#11
bis(2-Chloroethyl)ether
Concen: 4.912 ng
RT: 7.281 min Scan# 7
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 99772

Ion	Ratio	Lower	Upper
93	100		
63	79.7	56.9	96.9
95	31.2	12.6	52.6

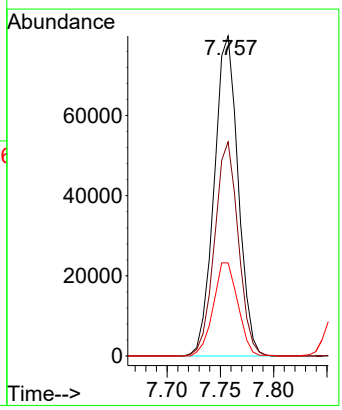


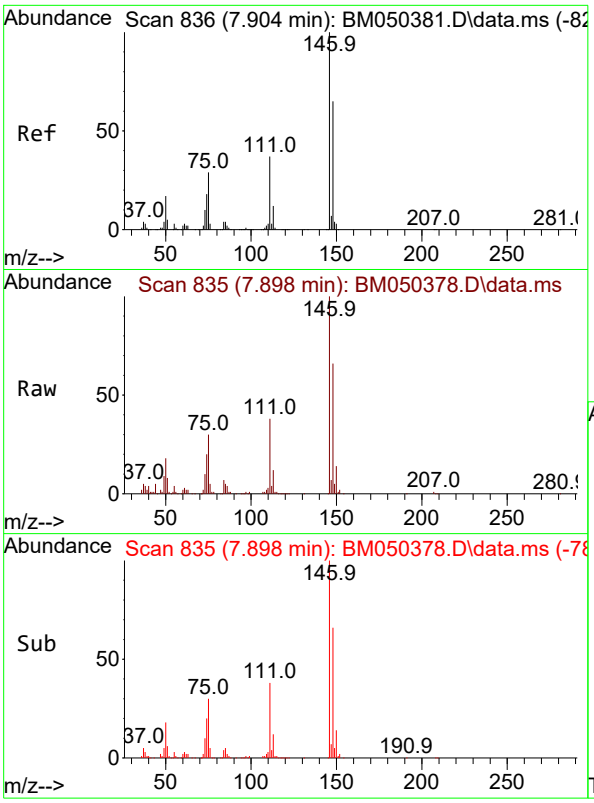


#12
1,3-Dichlorobenzene
Concen: 5.049 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:146 Resp: 124875

Ion	Ratio	Lower	Upper
146	100		
148	66.9	53.2	79.8
75	29.1	23.9	35.9



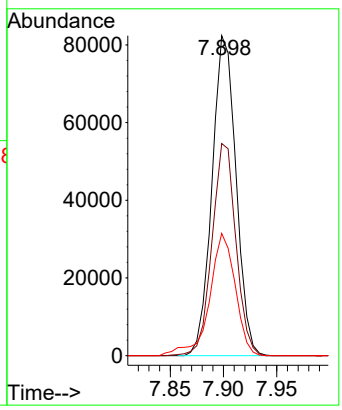


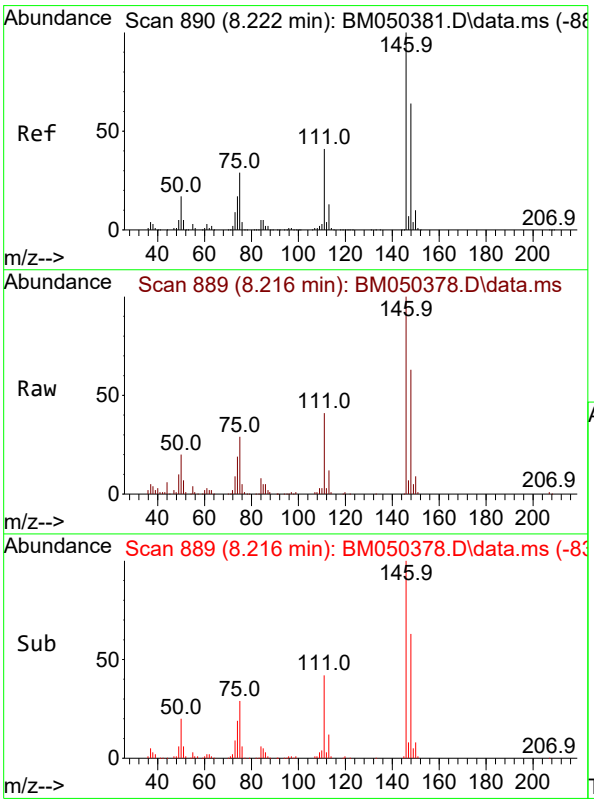
#13
1,4-Dichlorobenzene
Concen: 5.103 ng
RT: 7.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 128887

Ion	Ratio	Lower	Upper
146	100		
148	66.3	51.9	77.9
111	38.2	30.0	45.0

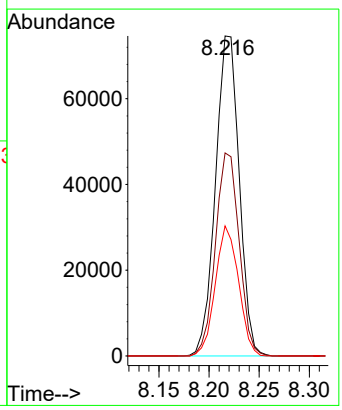


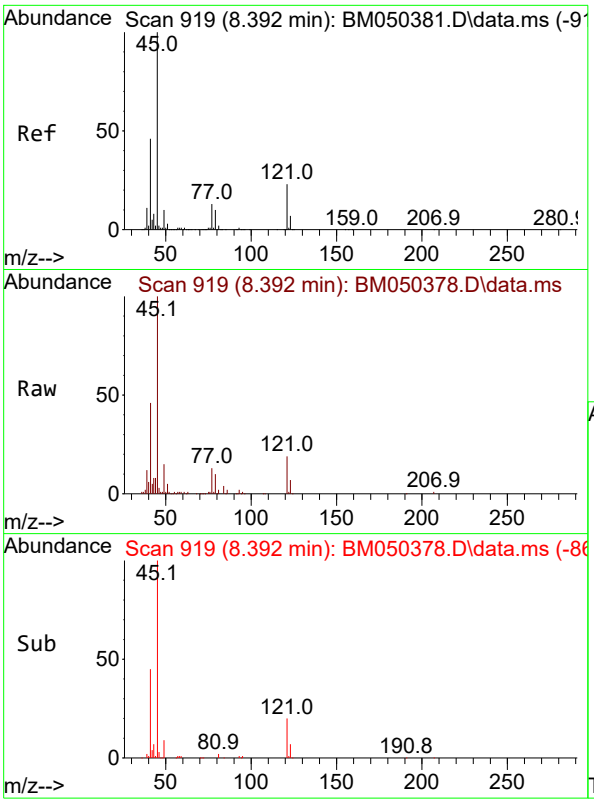


#14
1,2-Dichlorobenzene
Concen: 5.086 ng
RT: 8.216 min Scan# 889
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:146 Resp: 122972

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.5	77.3
111	40.7	32.6	49.0



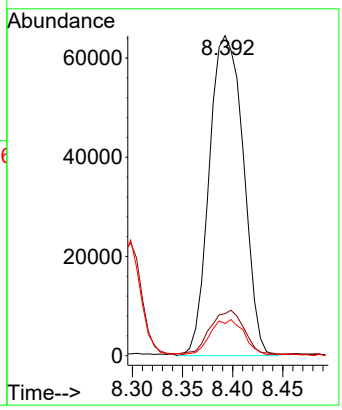


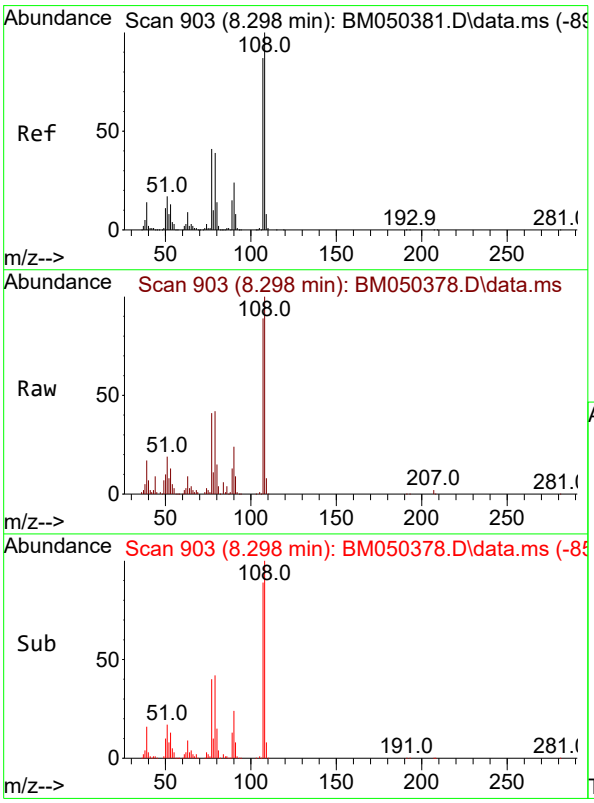
#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.092 ng
RT: 8.392 min Scan# 91
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 45 Resp: 152357

Ion	Ratio	Lower	Upper
45	100		
77	13.1	0.0	33.5
79	10.1	0.0	30.3

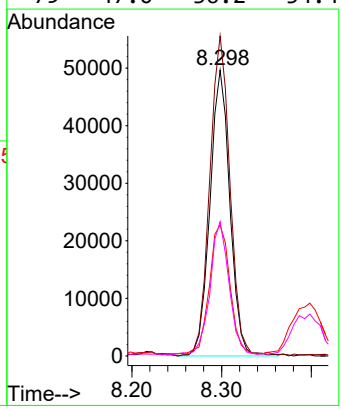


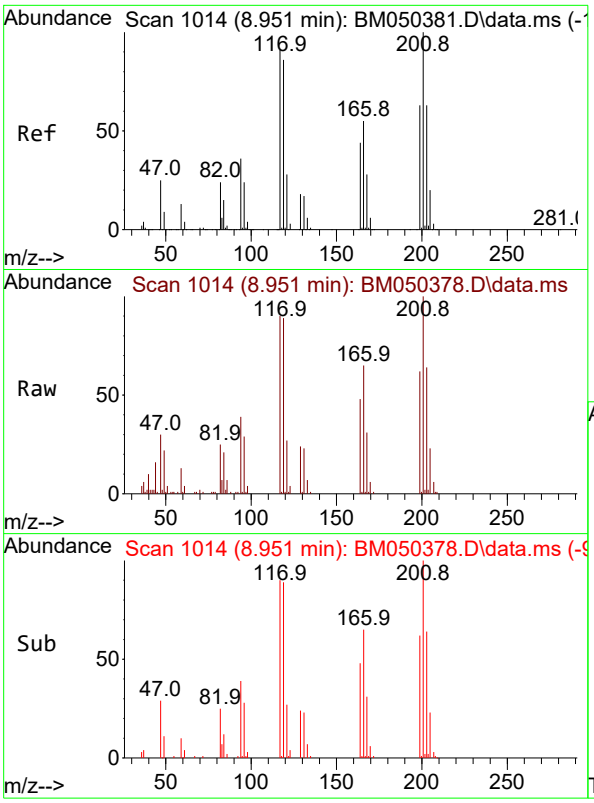


#17
2-Methylphenol
Concen: 4.655 ng
RT: 8.298 min Scan# 903
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:107 Resp: 76571

Ion	Ratio	Lower	Upper
107	100		
108	112.0	92.1	138.1
77	45.8	38.2	57.4
79	47.0	36.2	54.4



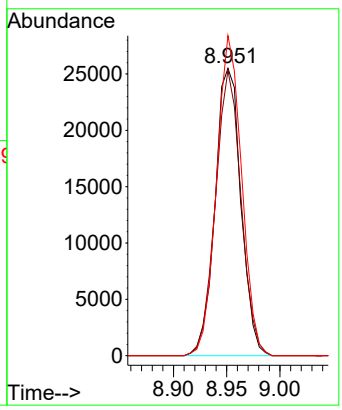


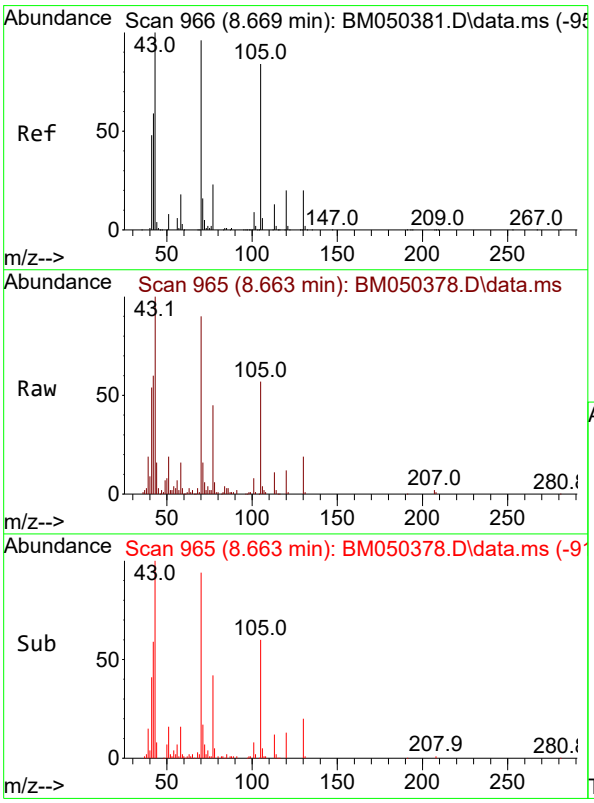
#18
Hexachloroethane
Concen: 4.840 ng
RT: 8.951 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:117 Resp: 42990

Ion	Ratio	Lower	Upper
117	100		
119	99.2	75.6	113.4
201	111.4	87.9	131.9

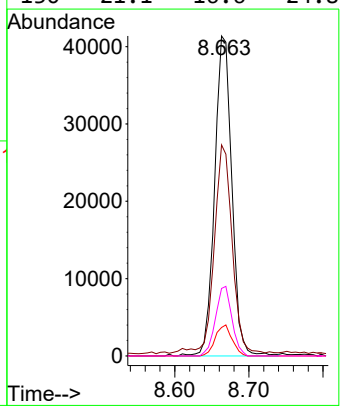


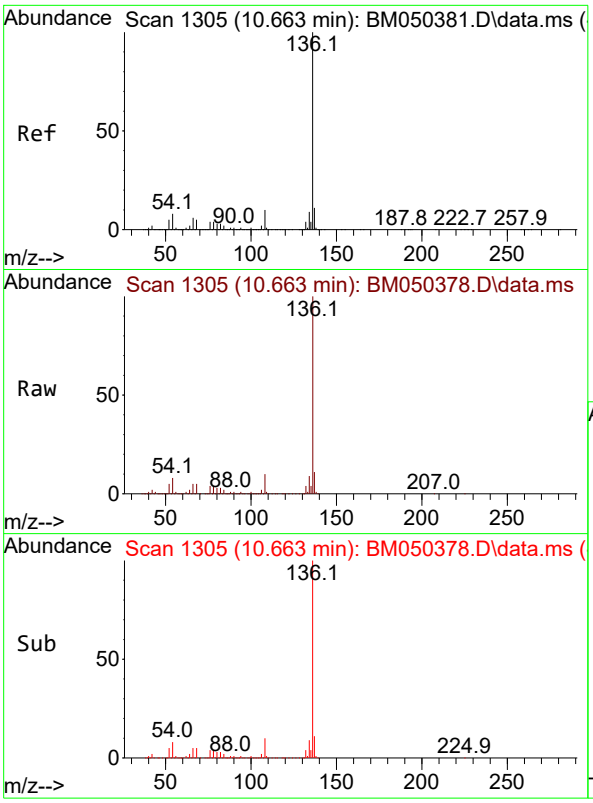


#19
n-Nitroso-di-n-propylamine
Concen: 4.537 ng
RT: 8.663 min Scan# 965
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 70 Resp: 66842

Ion	Ratio	Lower	Upper
70	100		
42	66.0	49.7	74.5
101	8.9	7.7	11.5
130	21.1	16.6	24.8



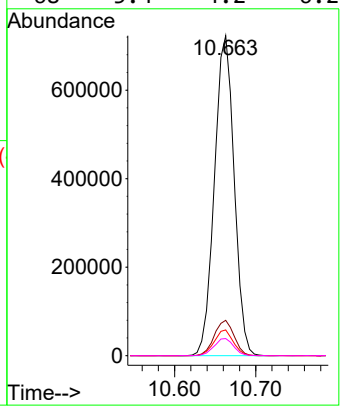


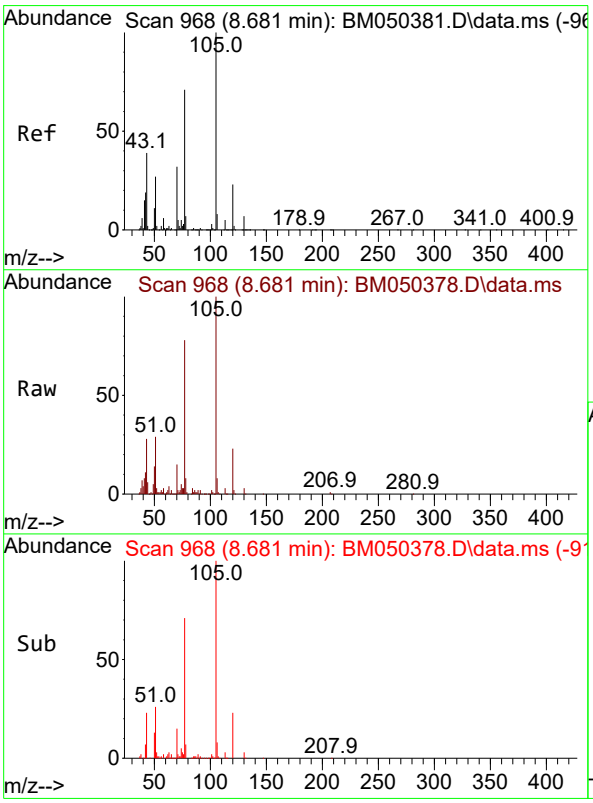
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 1221582

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	8.0	6.3	9.5
68	5.4	4.2	6.2

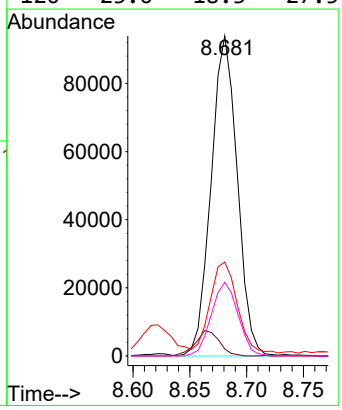


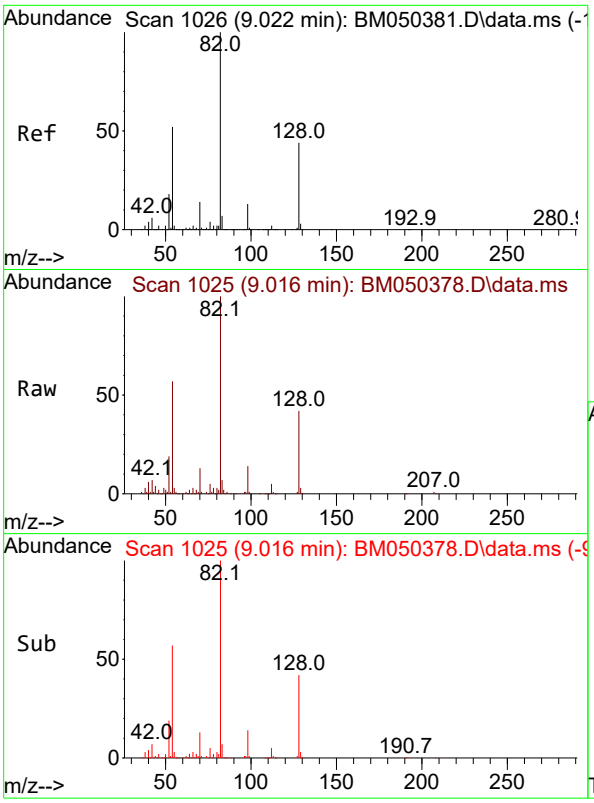


#22
Acetophenone
Concen: 4.927 ng
RT: 8.681 min Scan# 968
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:105 Resp: 150473

Ion	Ratio	Lower	Upper
105	100		
71	2.2	4.4	6.6#
51	29.3	23.0	34.6
120	23.0	18.3	27.5



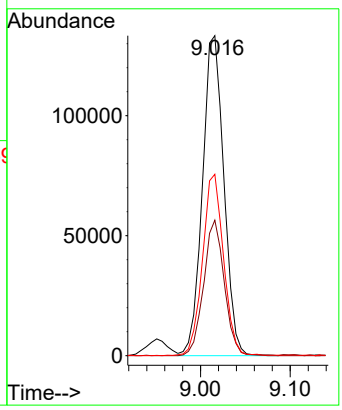


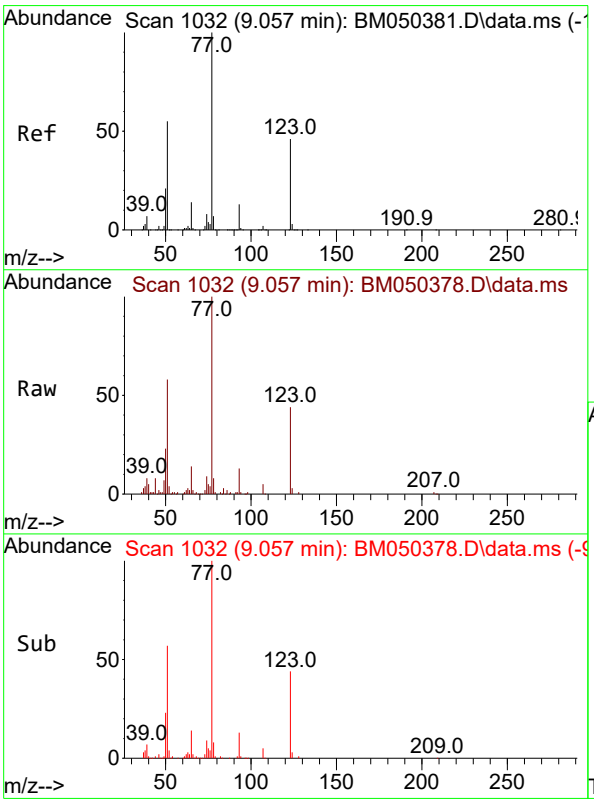
#23
Nitrobenzene-d5
Concen: 9.234 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 221107

Ion	Ratio	Lower	Upper
82	100		
128	42.3	35.2	52.8
54	56.7	41.5	62.3

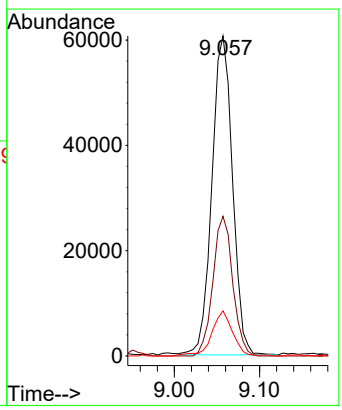


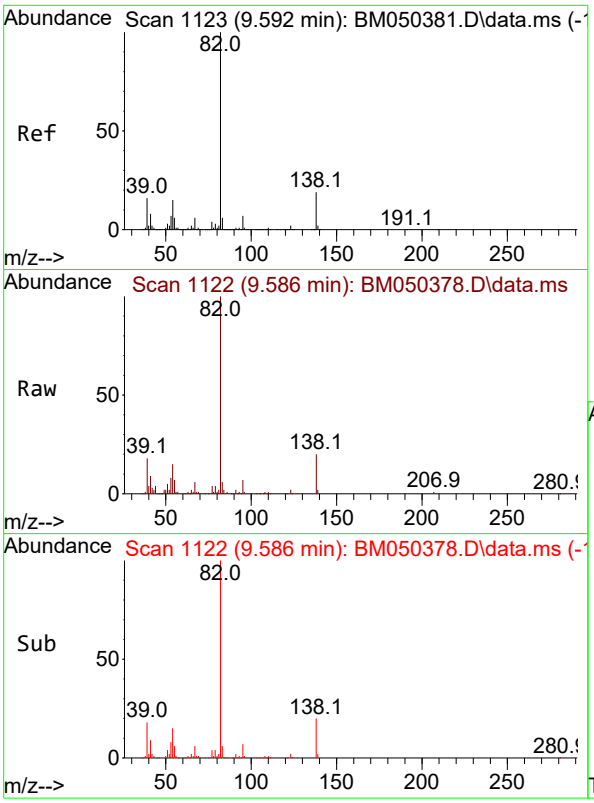


#24
Nitrobenzene
Concen: 4.758 ng
RT: 9.057 min Scan# 1032
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 77 Resp: 101661

Ion	Ratio	Lower	Upper
77	100		
123	43.7	37.0	55.6
65	14.1	11.0	16.4



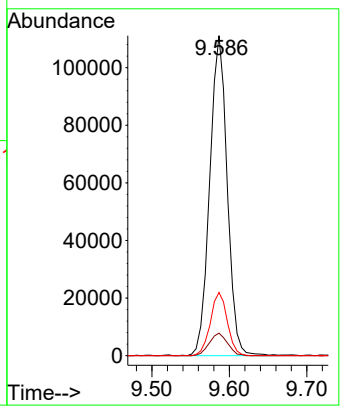


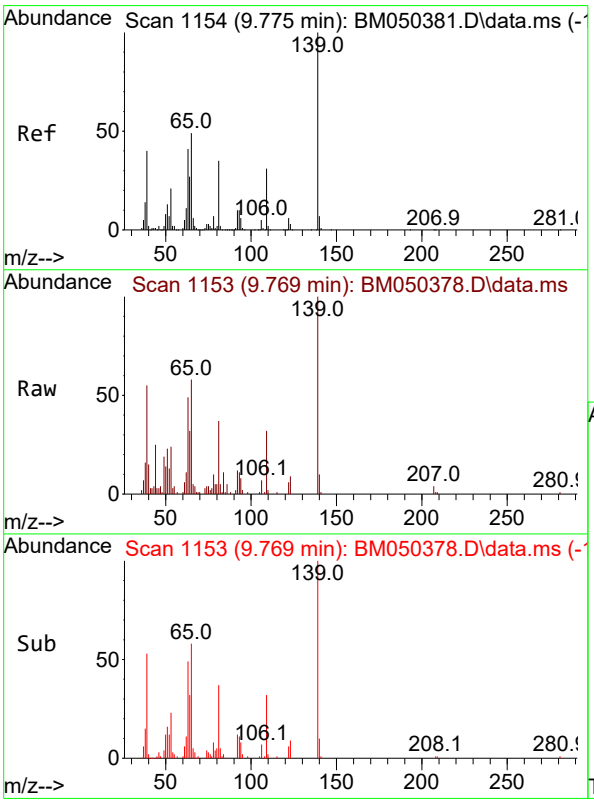
#25
Isophorone
Concen: 4.488 ng
RT: 9.586 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 174388

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	19.7	15.3	22.9

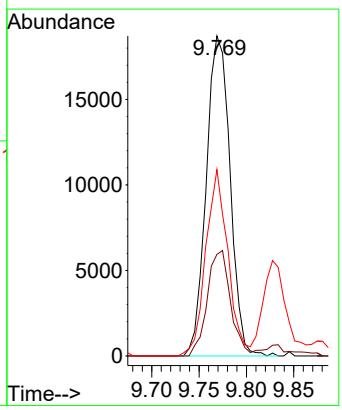


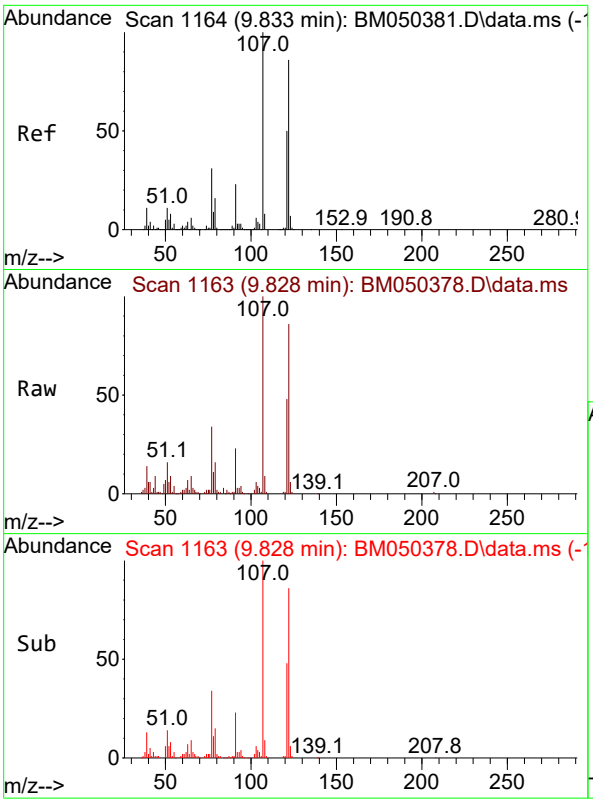


#26
2-Nitrophenol
Concen: 3.767 ng
RT: 9.769 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:139 Resp: 32805

Ion	Ratio	Lower	Upper
139	100		
109	31.8	24.6	36.8
65	58.3	39.2	58.8



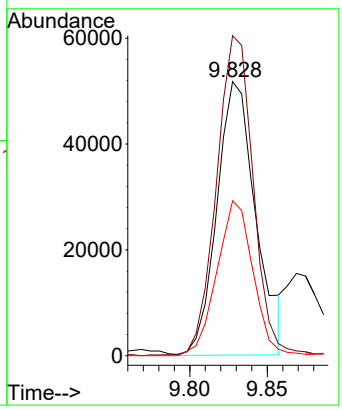


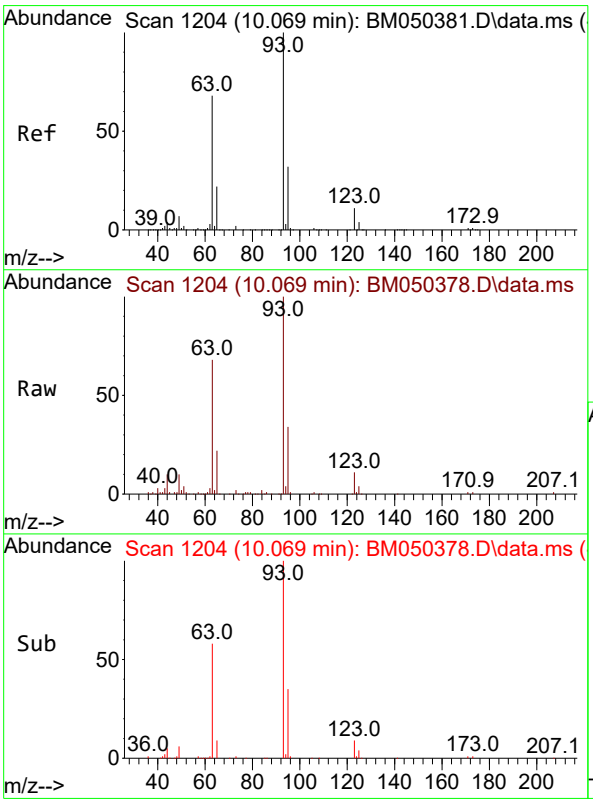
#27
2,4-Dimethylphenol
Concen: 4.858 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 90013

Ion	Ratio	Lower	Upper
122	100		
107	116.8	93.0	139.6
121	56.5	46.1	69.1

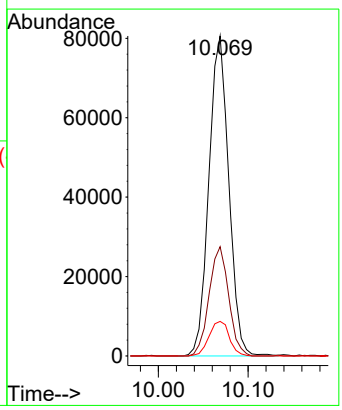


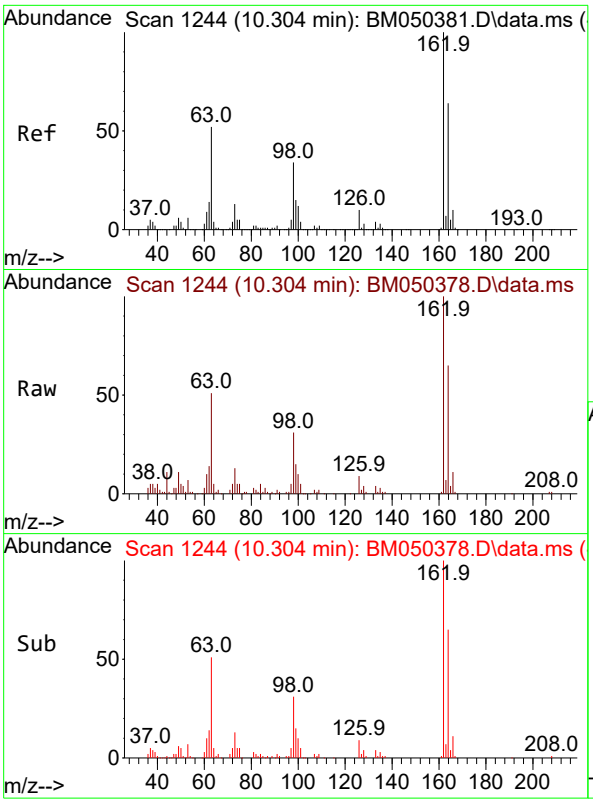


#28
bis(2-Chloroethoxy)methane
Concen: 4.822 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 93 Resp: 124150

Ion	Ratio	Lower	Upper
93	100		
95	34.1	25.8	38.6
123	10.8	9.1	13.7



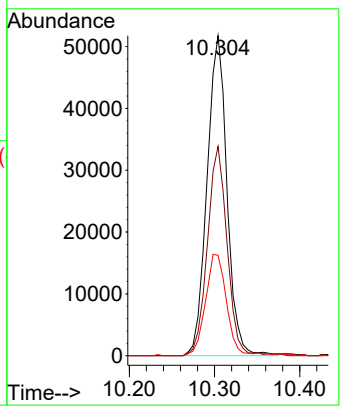


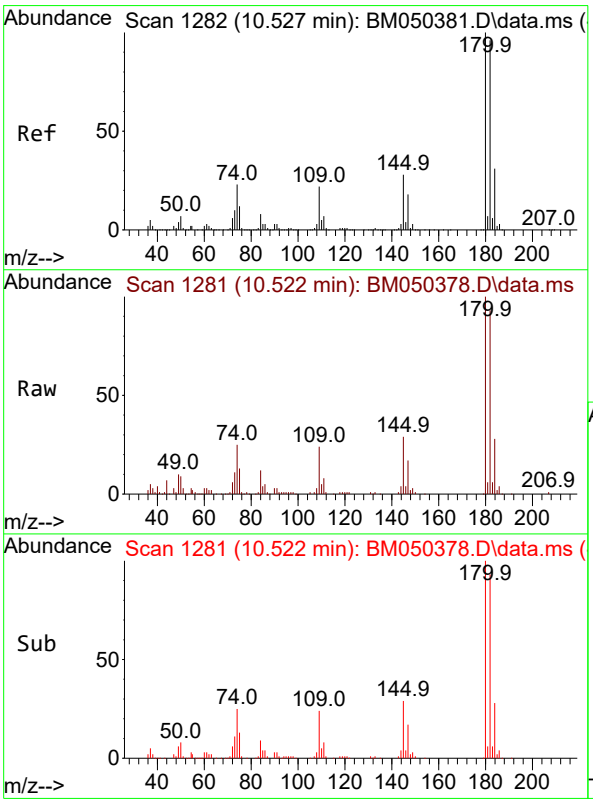
#29
2,4-Dichlorophenol
Concen: 4.438 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 84485

Ion	Ratio	Lower	Upper
162	100		
164	65.4	43.7	83.7
98	31.4	13.7	53.7

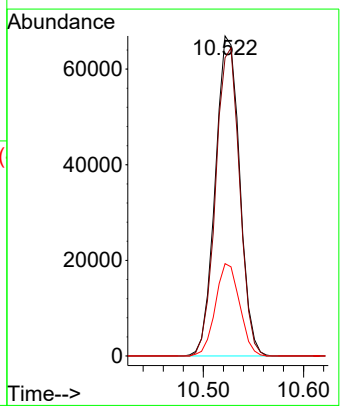


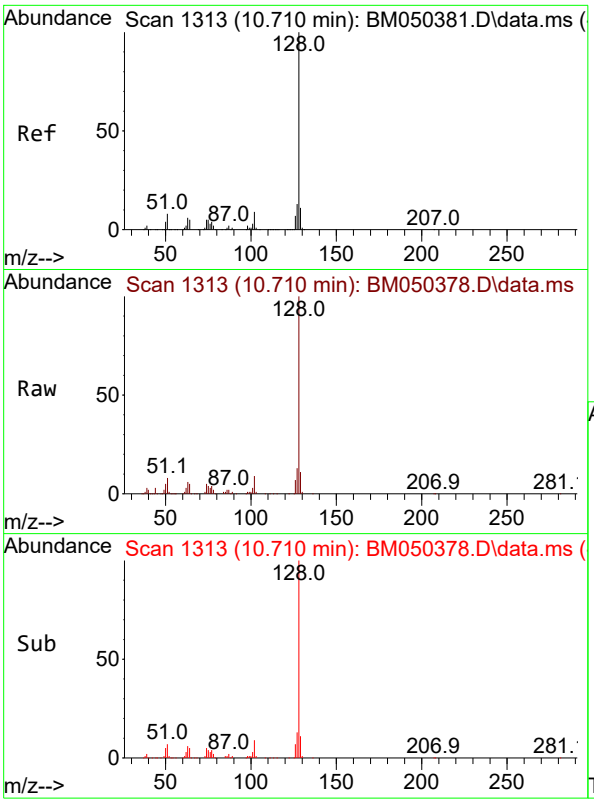


#30
1,2,4-Trichlorobenzene
Concen: 4.958 ng
RT: 10.522 min Scan# 1281
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:180 Resp: 112916

Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.8	115.2
145	28.8	22.6	33.8



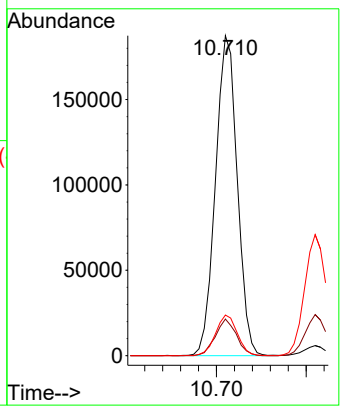


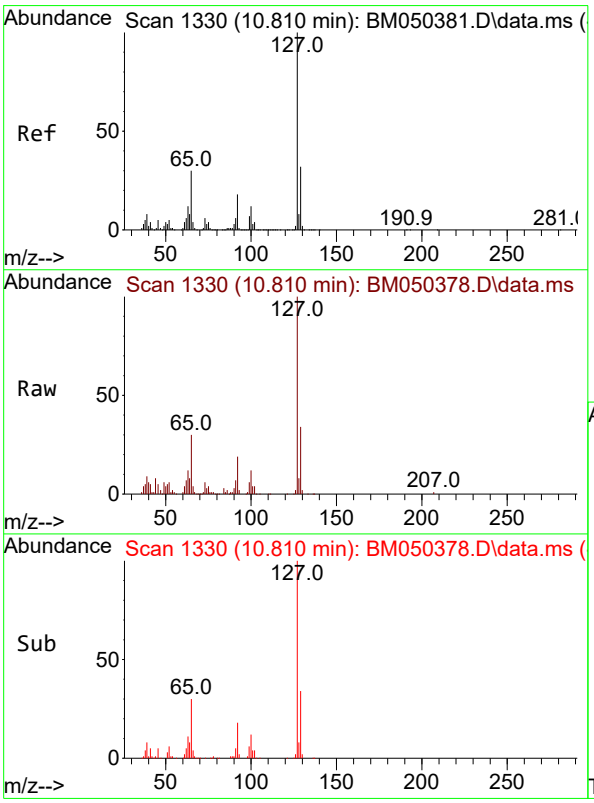
#31
Naphthalene
Concen: 5.086 ng
RT: 10.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 315550

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	12.7	10.4	15.6

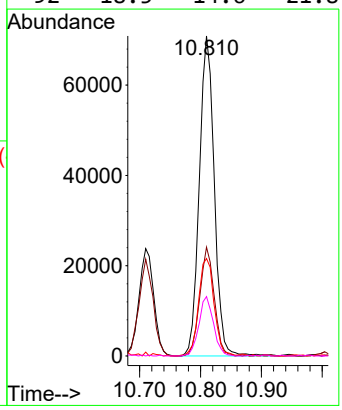


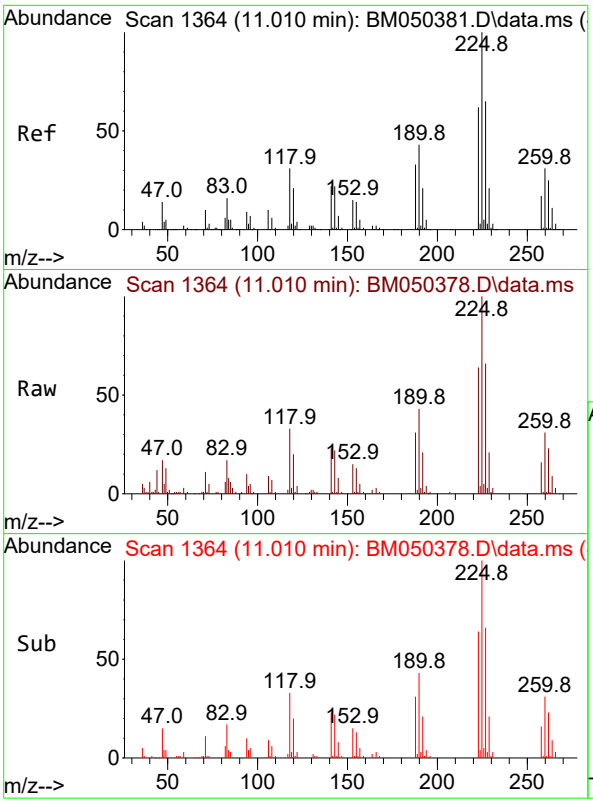


#33
4-Chloroaniline
Concen: 4.635 ng
RT: 10.810 min Scan# 1330
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:127 Resp: 121575

Ion	Ratio	Lower	Upper
127	100		
129	34.0	25.5	38.3
65	30.4	23.9	35.9
92	18.5	14.6	21.8



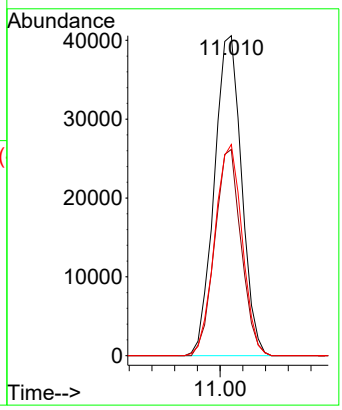


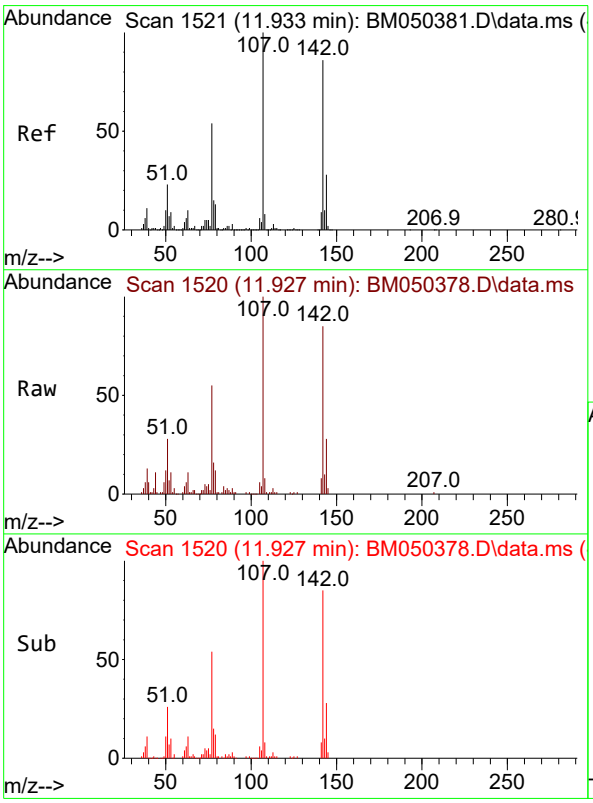
#34
Hexachlorobutadiene
Concen: 4.870 ng
RT: 11.010 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 67689

Ion	Ratio	Lower	Upper
225	100		
223	64.5	49.7	74.5
227	66.0	52.1	78.1

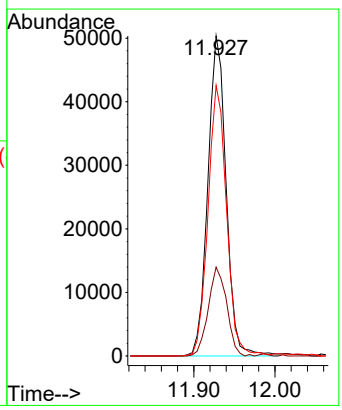


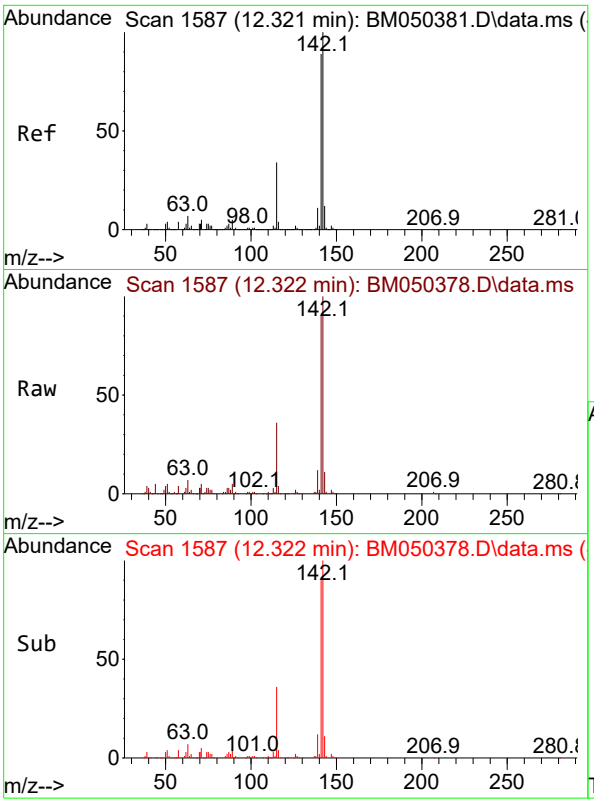


#36
4-Chloro-3-methylphenol
Concen: 4.428 ng
RT: 11.927 min Scan# 1520
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:107 Resp: 78716

Ion	Ratio	Lower	Upper
107	100		
144	27.7	22.2	33.4
142	84.5	68.7	103.1



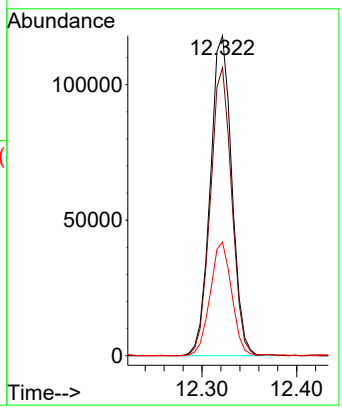


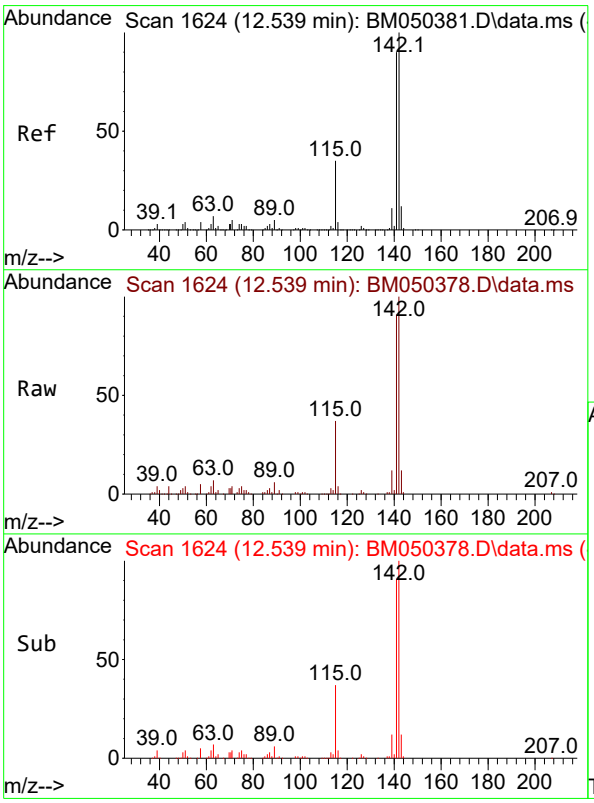
#37
2-Methylnaphthalene
Concen: 4.760 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 186482

Ion	Ratio	Lower	Upper
142	100		
141	90.0	70.8	106.2
115	35.5	27.0	40.4

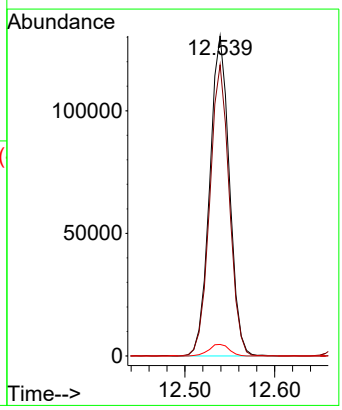


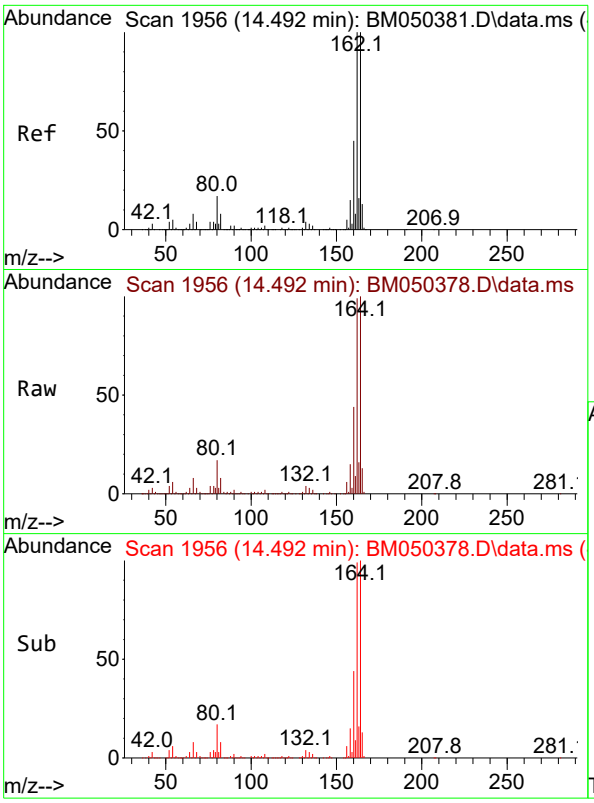


#38
1-Methylnaphthalene
Concen: 4.796 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:142 Resp: 198866

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.9	107.9
116	3.6	3.0	4.6



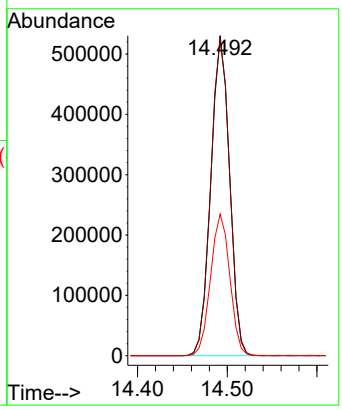


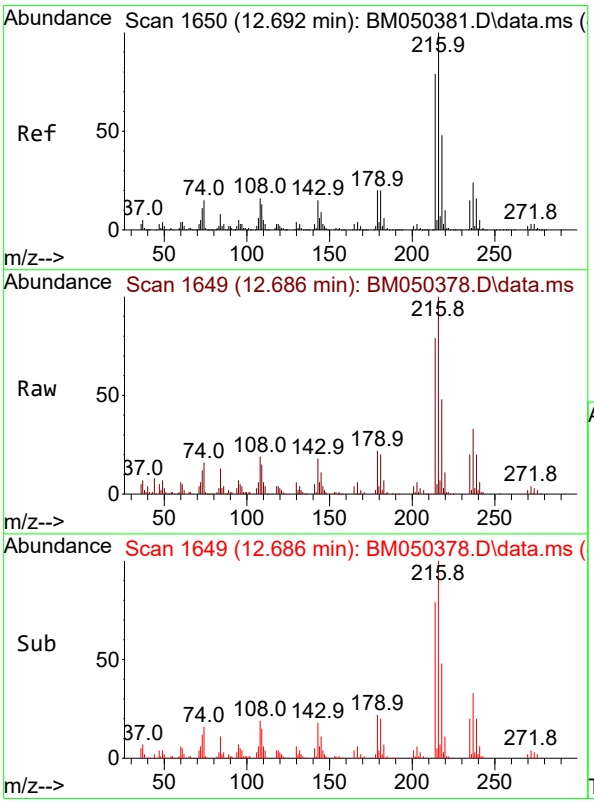
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 768894

Ion	Ratio	Lower	Upper
164	100		
162	98.7	79.9	119.9
160	44.3	36.2	54.4

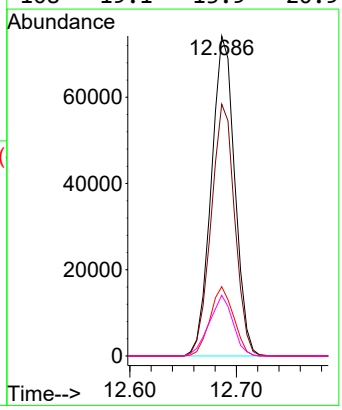


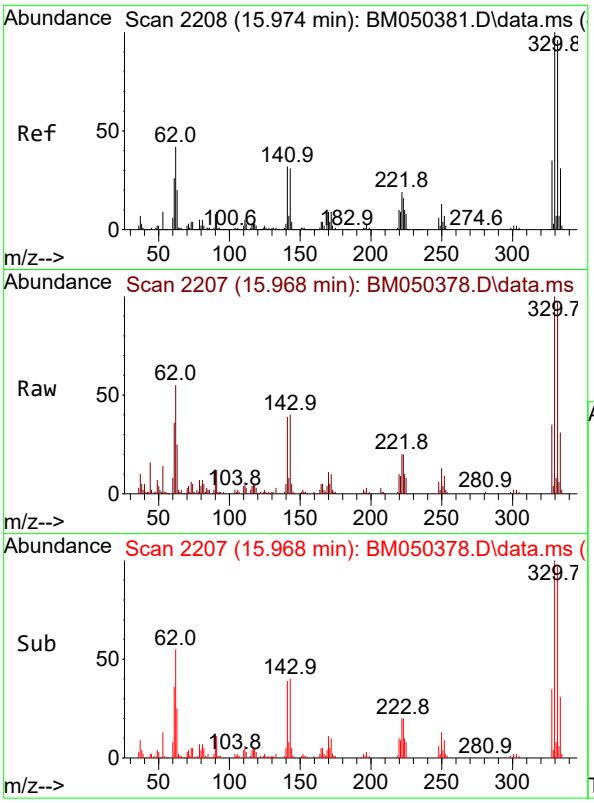


#40
1,2,4,5-Tetrachlorobenzene
Concen: 4.642 ng
RT: 12.686 min Scan# 1649
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:216 Resp: 113496

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.3	94.9
179	21.7	16.4	24.6
108	19.1	13.9	20.9



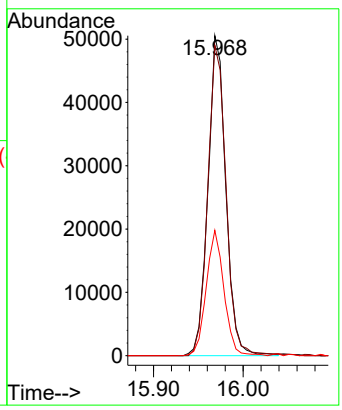


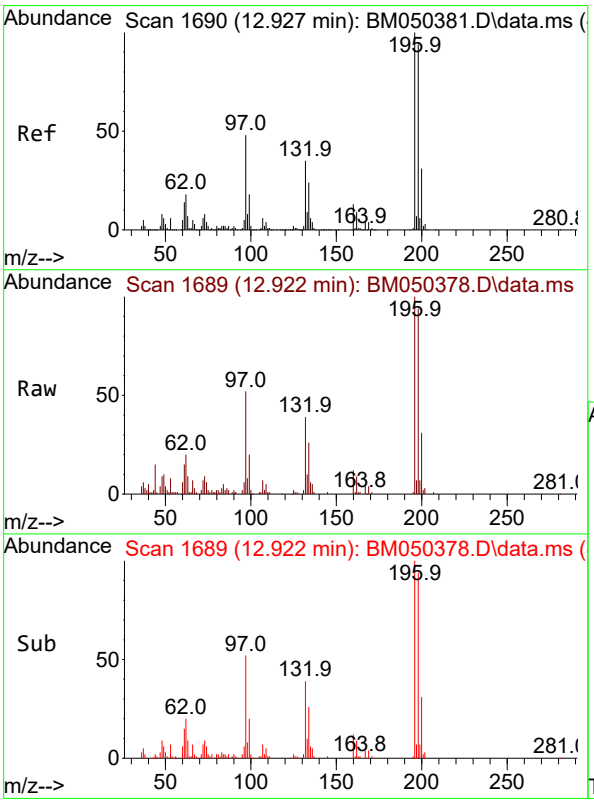
#42
2,4,6-Tribromophenol
Concen: 7.485 ng
RT: 15.968 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:330 Resp: 69925

Ion	Ratio	Lower	Upper
330	100		
332	99.4	76.9	115.3
141	38.9	27.4	41.0

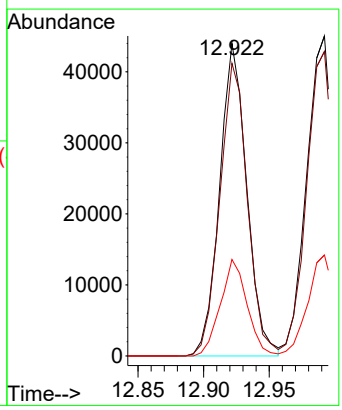


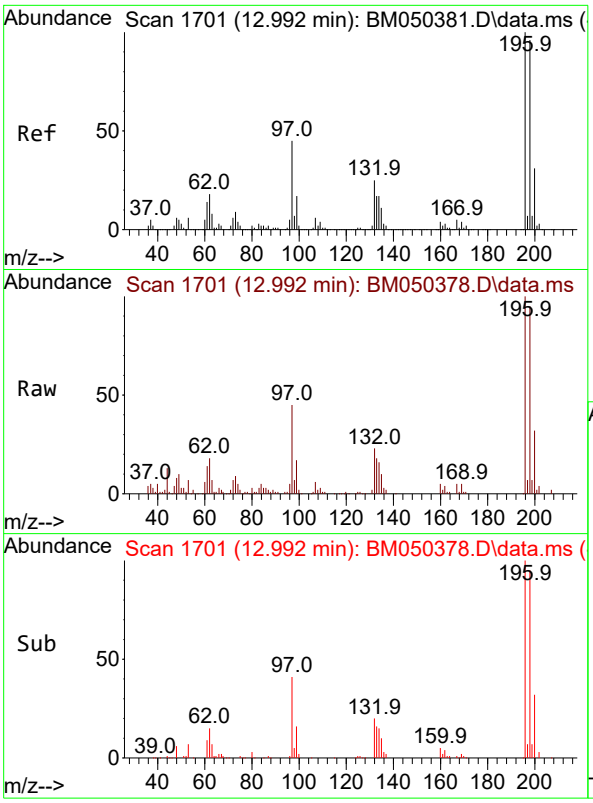


#43
2,4,6-Trichlorophenol
Concen: 4.221 ng
RT: 12.922 min Scan# 1689
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:196 Resp: 63524

Ion	Ratio	Lower	Upper
196	100		
198	93.6	75.1	112.7
200	30.8	24.6	37.0



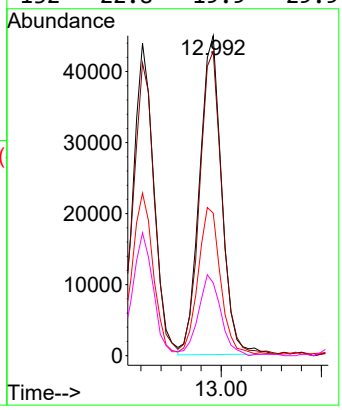


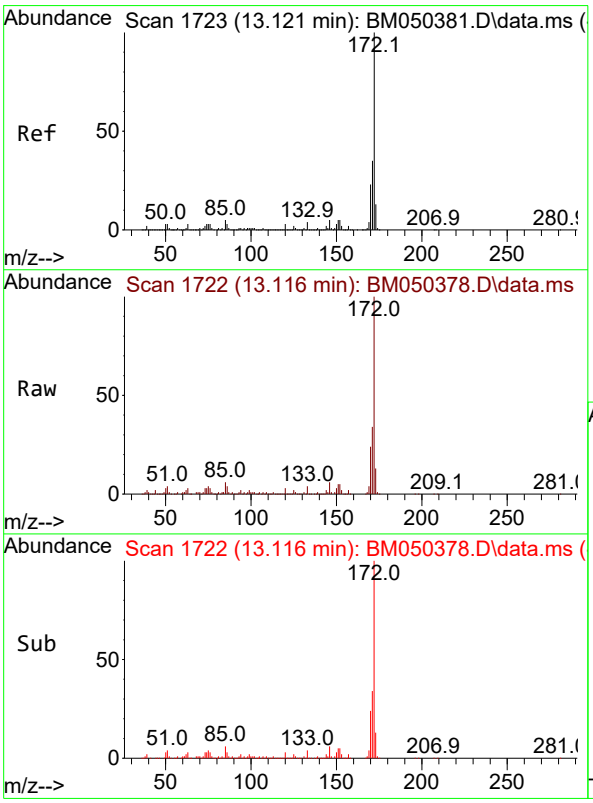
#44
2,4,5-Trichlorophenol
Concen: 4.195 ng
RT: 12.992 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 68958

Ion	Ratio	Lower	Upper
196	100		
198	95.2	77.2	115.8
97	44.6	36.2	54.4
132	22.8	19.9	29.9

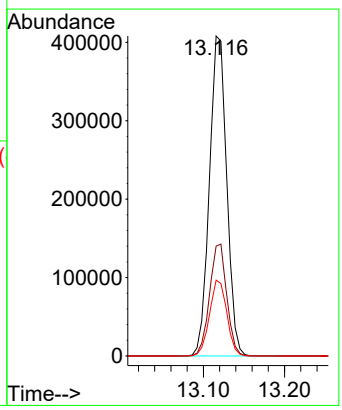


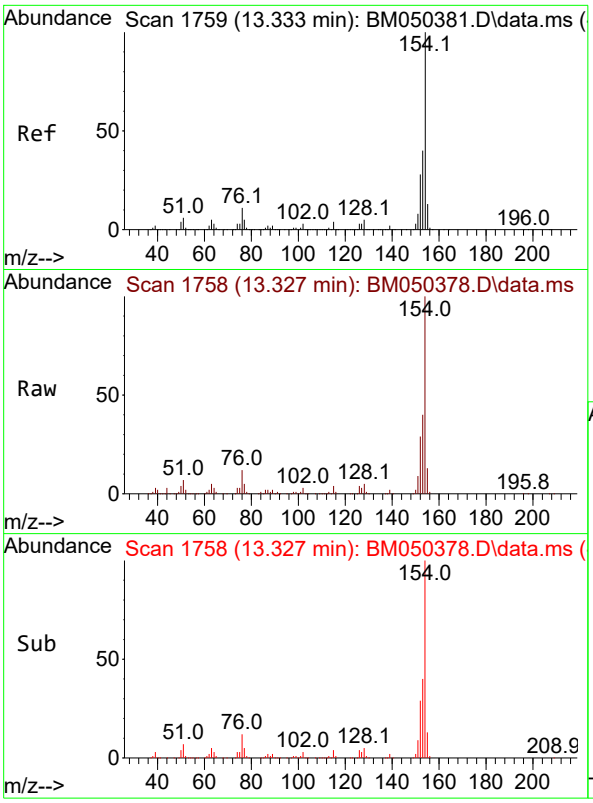


#45
2-Fluorobiphenyl
Concen: 9.705 ng
RT: 13.116 min Scan# 1722
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:172 Resp: 604282

Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.7	41.5
170	23.7	18.8	28.2



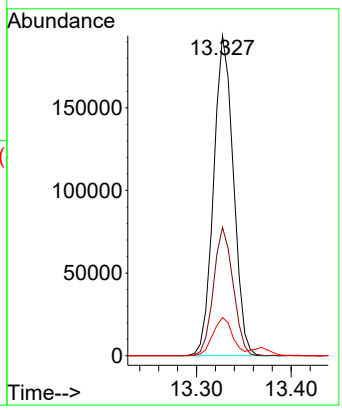


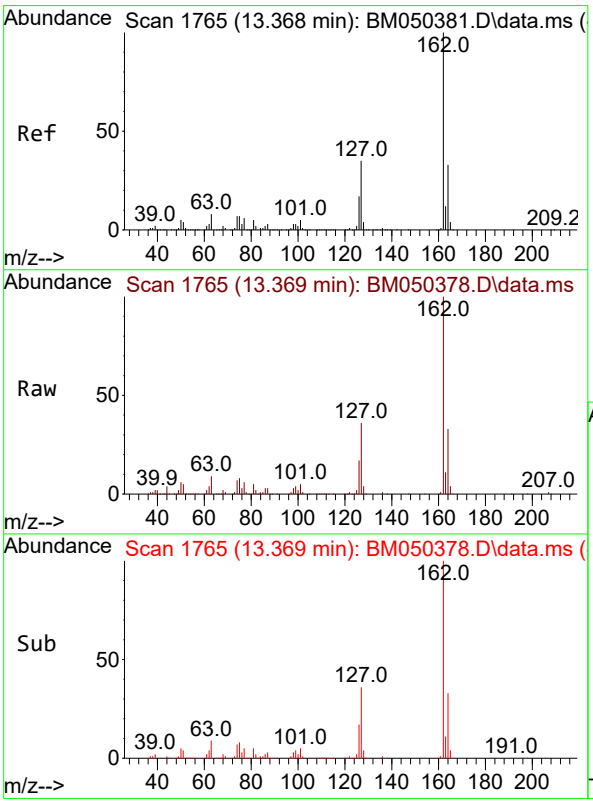
#46
1,1'-Biphenyl
Concen: 4.934 ng
RT: 13.327 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 281496

Ion	Ratio	Lower	Upper
154	100		
153	40.1	19.7	59.7
76	11.9	0.0	30.9

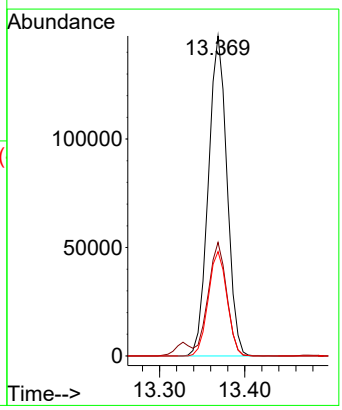


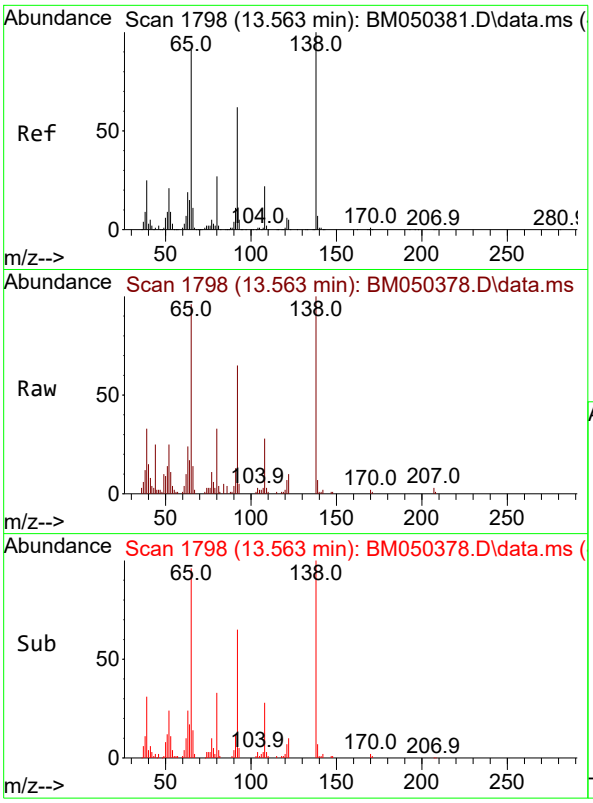


#47
2-Chloronaphthalene
Concen: 4.918 ng
RT: 13.369 min Scan# 1765
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:162 Resp: 223672

Ion	Ratio	Lower	Upper
162	100		
127	35.5	28.3	42.5
164	32.6	26.6	40.0



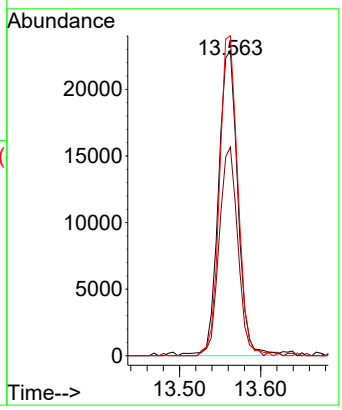


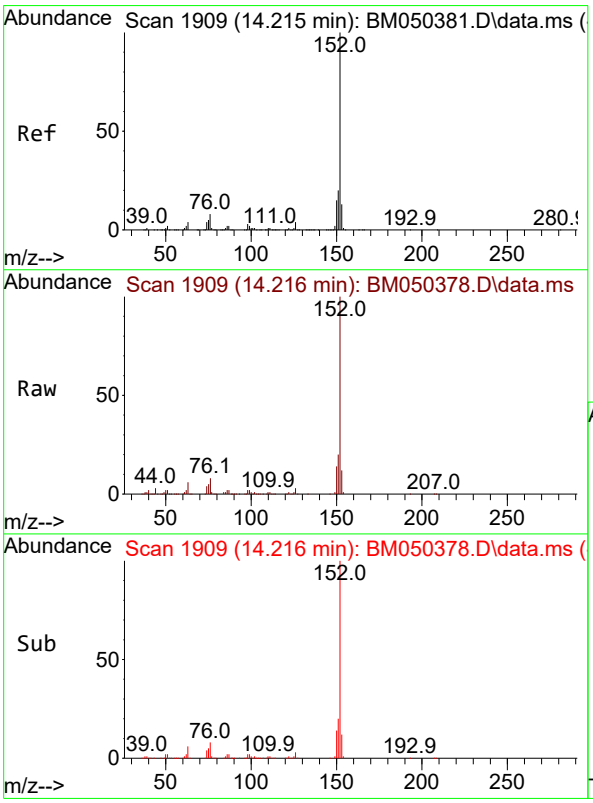
#48
2-Nitroaniline
Concen: 3.738 ng
RT: 13.563 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion: 65 Resp: 37953

Ion	Ratio	Lower	Upper
65	100		
92	68.3	54.3	81.5
138	104.7	87.8	131.6

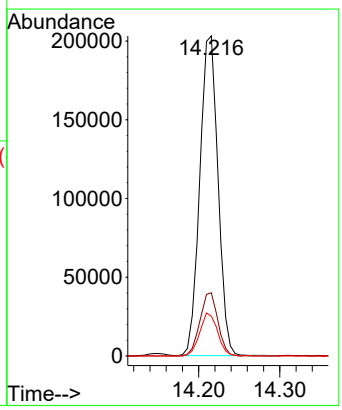


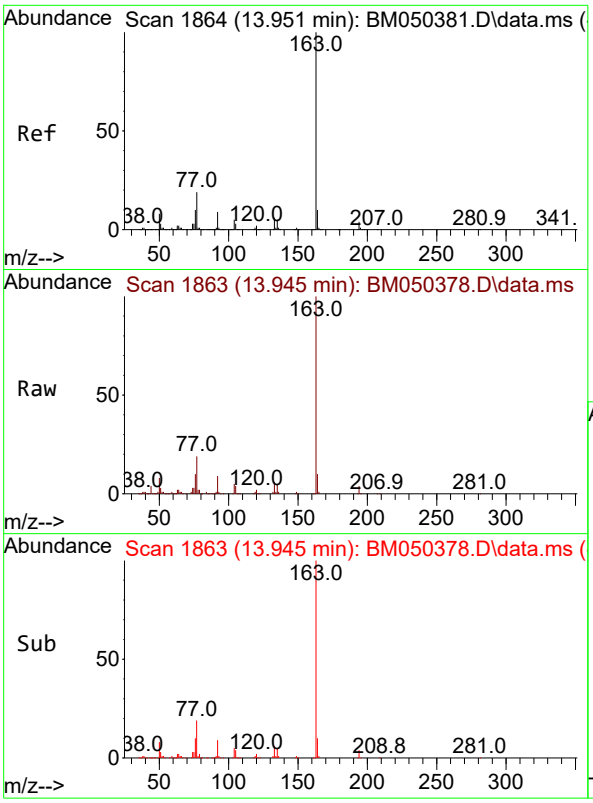


#49
Acenaphthylene
Concen: 4.601 ng
RT: 14.216 min Scan# 1909
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:152 Resp: 316292

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.3	24.5
153	12.4	10.6	15.8



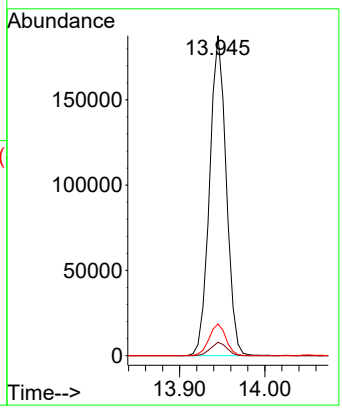


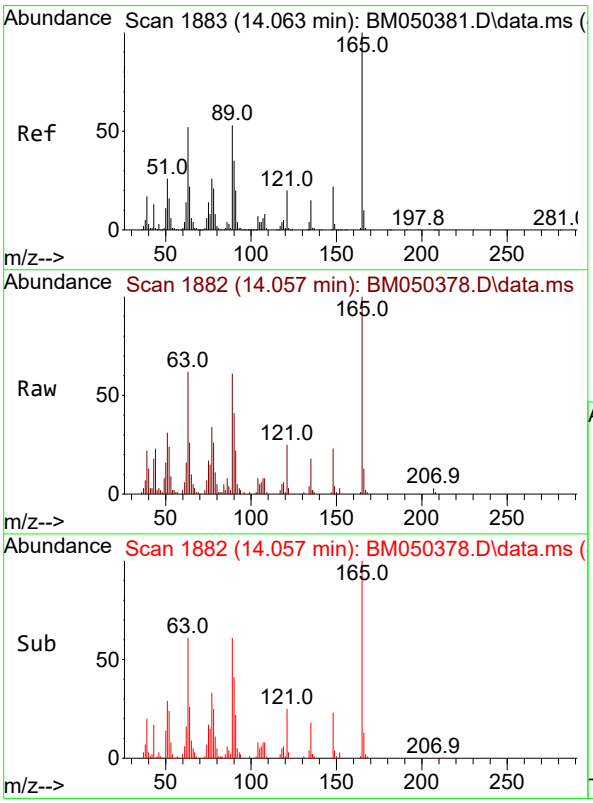
#50
Dimethylphthalate
Concen: 4.805 ng
RT: 13.945 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:163 Resp: 254362

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.2
164	9.9	8.2	12.2

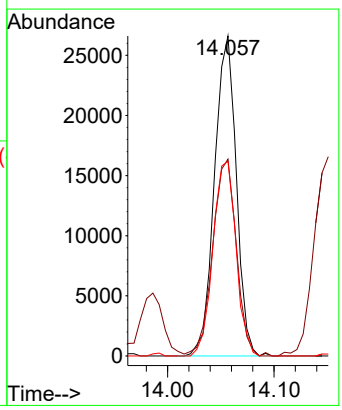


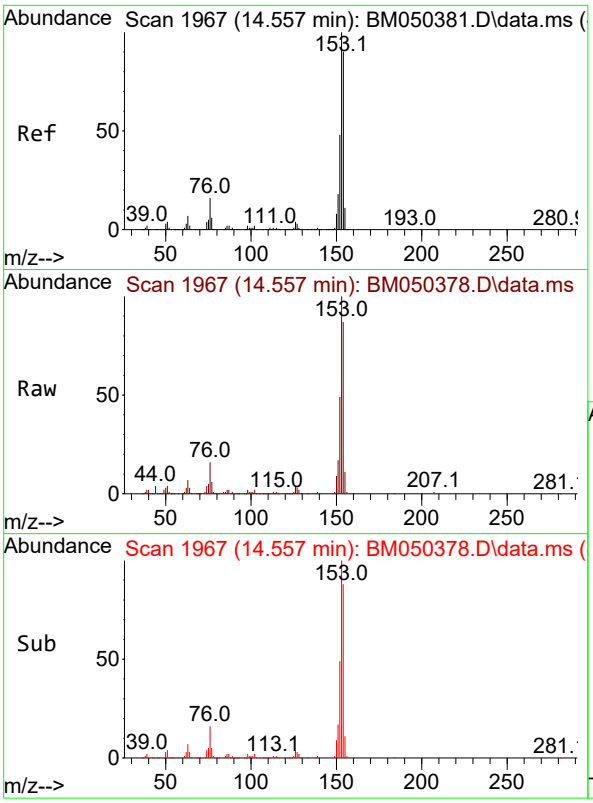


#51
2,6-Dinitrotoluene
Concen: 3.710 ng
RT: 14.057 min Scan# 1882
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:165 Resp: 37711

Ion	Ratio	Lower	Upper
165	100		
63	61.5	42.4	63.6
89	60.8	42.2	63.2



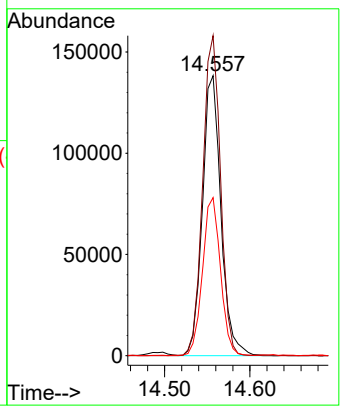


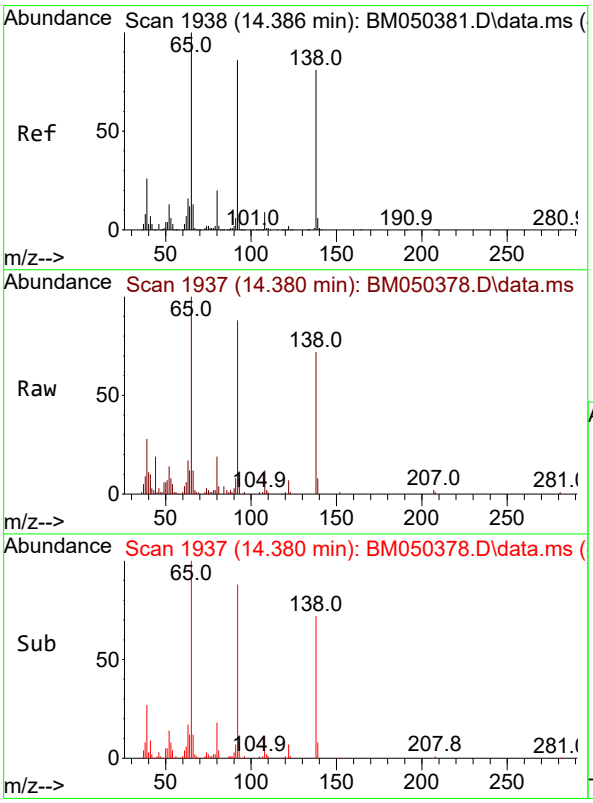
#52
Acenaphthene
Concen: 4.779 ng
RT: 14.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 208840

Ion	Ratio	Lower	Upper
154	100		
153	114.3	89.2	133.8
152	56.4	42.6	64.0

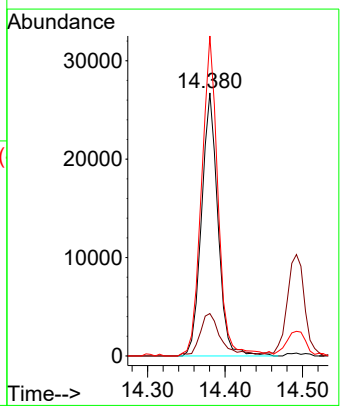


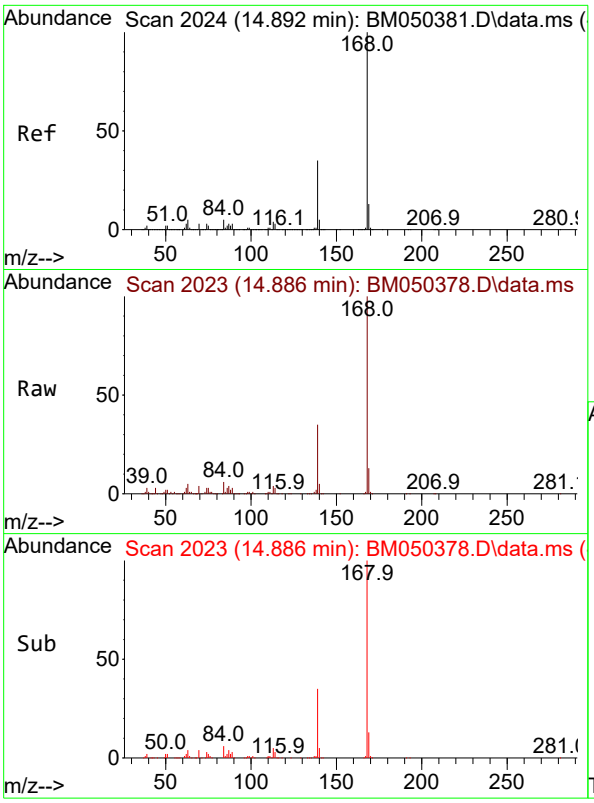


#53
3-Nitroaniline
Concen: 3.628 ng
RT: 14.380 min Scan# 1937
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:138 Resp: 39220

Ion	Ratio	Lower	Upper
138	100		
108	16.1	8.8	13.2#
92	121.7	85.0	127.6



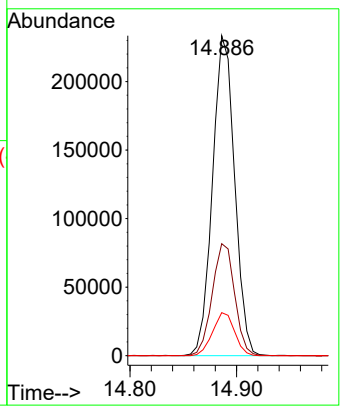


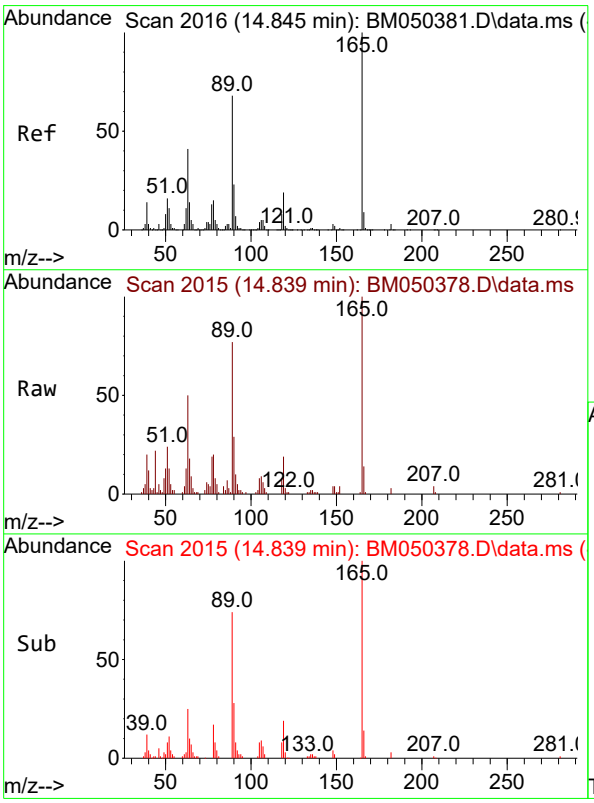
#55
Dibenzofuran
Concen: 4.988 ng
RT: 14.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 335867

Ion	Ratio	Lower	Upper
168	100		
139	35.0	27.7	41.5
169	13.4	10.7	16.1

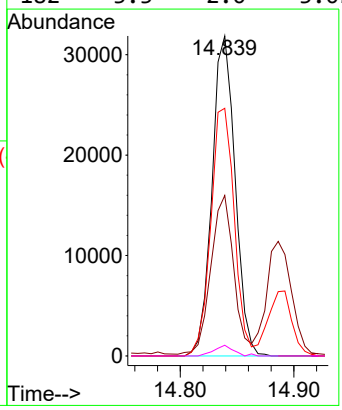


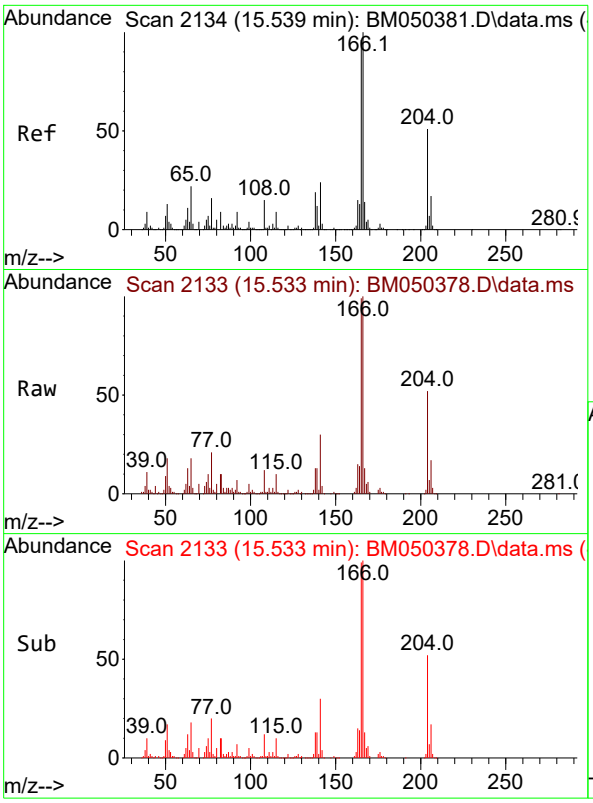


#57
2,4-Dinitrotoluene
Concen: 5.513 ng
RT: 14.839 min Scan# 2015
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:165 Resp: 44983

Ion	Ratio	Lower	Upper
165	100		
63	50.1	32.5	48.7#
89	77.4	54.0	81.0
182	3.3	2.0	3.0#



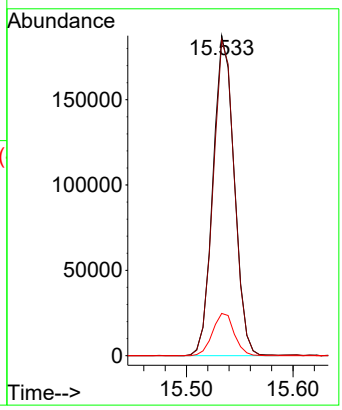


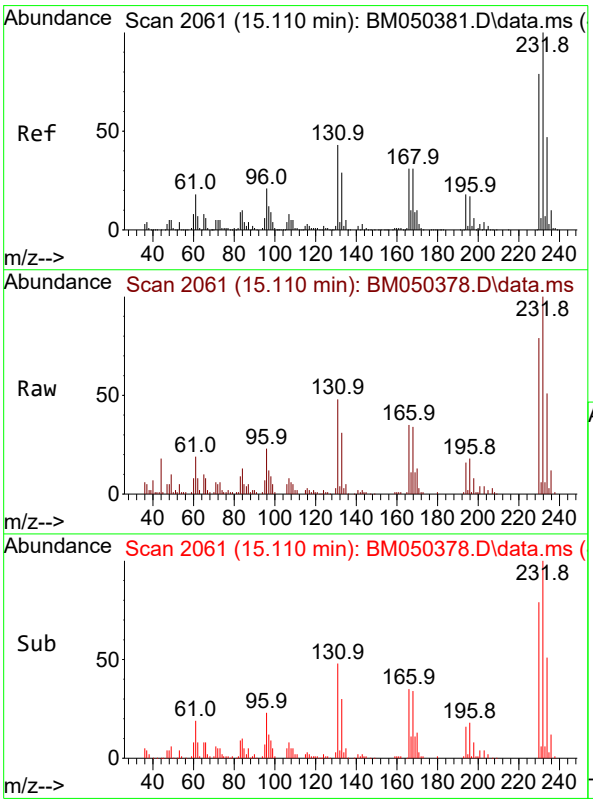
#58
Fluorene
Concen: 4.671 ng
RT: 15.533 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 259083

Ion	Ratio	Lower	Upper
166	100		
165	98.7	77.0	115.6
167	13.2	10.9	16.3

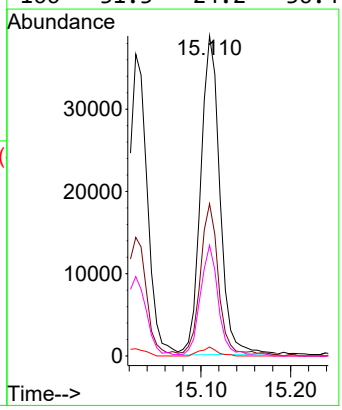


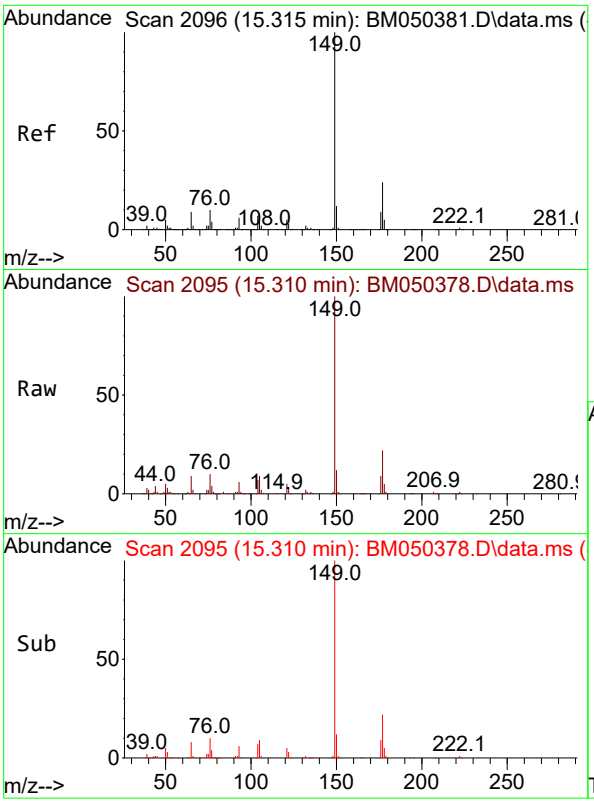


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.158 ng
RT: 15.110 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:232 Resp: 57532

Ion	Ratio	Lower	Upper
232	100		
131	46.5	33.4	50.0
130	2.5	1.8	2.6
166	31.3	24.2	36.4



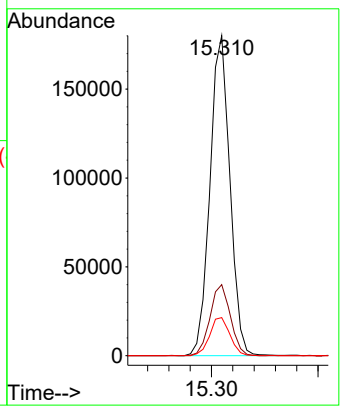


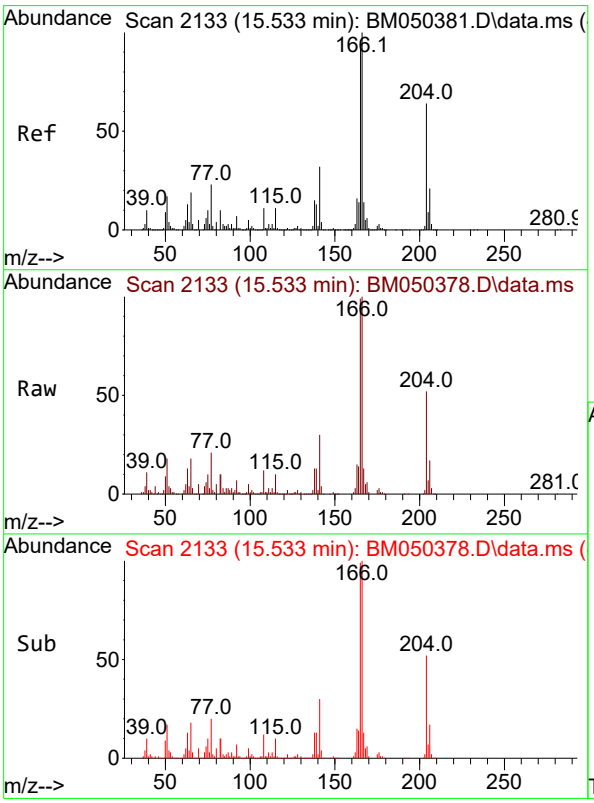
#60
Diethylphthalate
Concen: 4.625 ng
RT: 15.310 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 233863

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.8	28.2
150	11.9	9.8	14.8

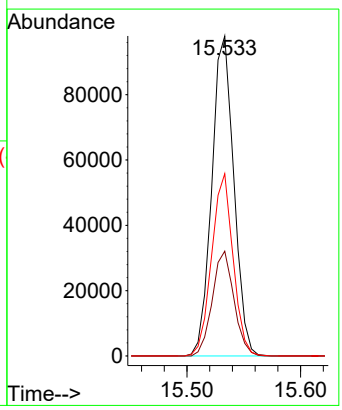


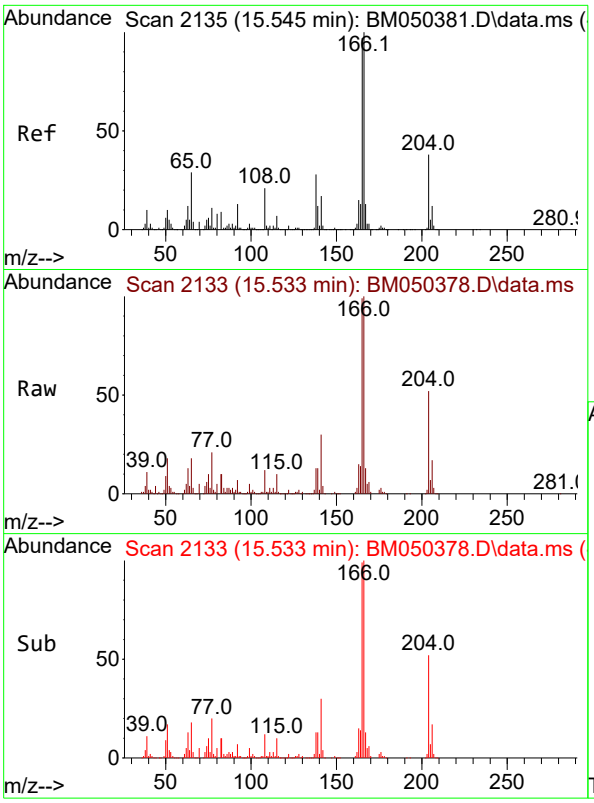


#61
4-Chlorophenyl-phenylether
Concen: 4.557 ng
RT: 15.533 min Scan# 2133
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:204 Resp: 132153

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.6	39.8
141	57.0	39.9	59.9



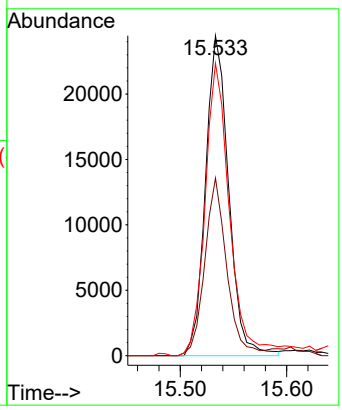


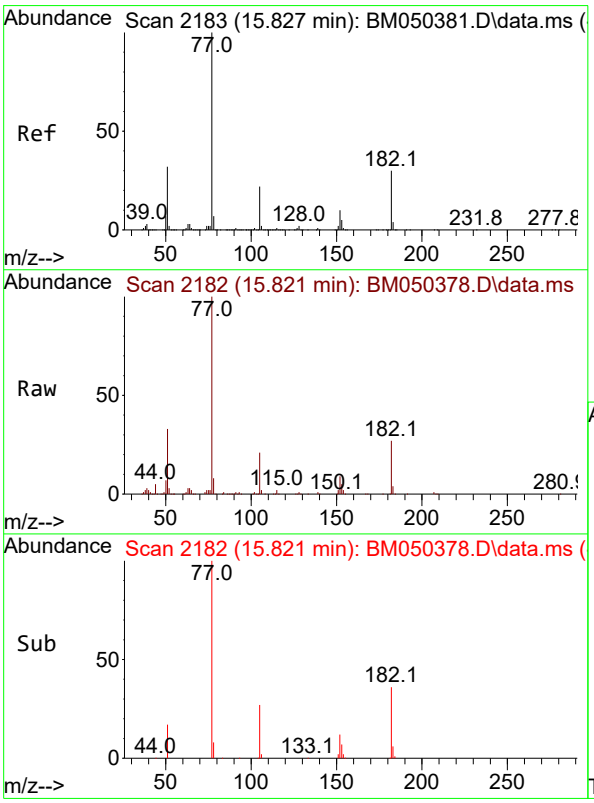
#62
4-Nitroaniline
Concen: 5.398 ng
RT: 15.533 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 36922

Ion	Ratio	Lower	Upper
138	100		
92	55.5	24.5	64.5
108	91.3	52.5	92.5

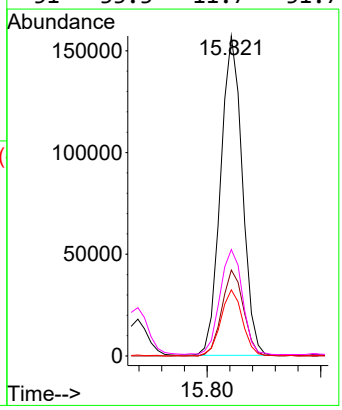


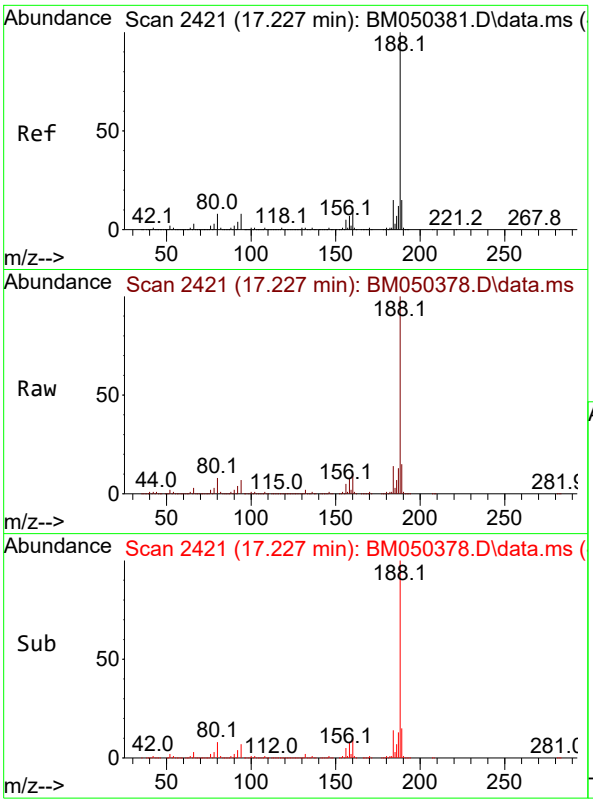


#63
Azobenzene
Concen: 4.490 ng
RT: 15.821 min Scan# 2182
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion: 77 Resp: 208493

Ion	Ratio	Lower	Upper
77	100		
182	26.8	10.0	50.0
105	20.6	2.0	42.0
51	33.3	11.7	51.7



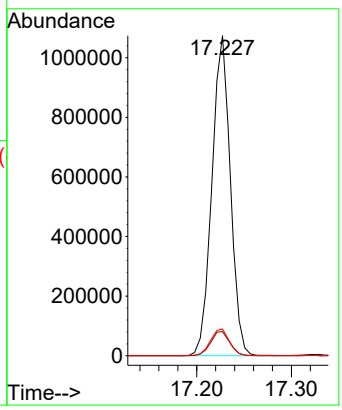


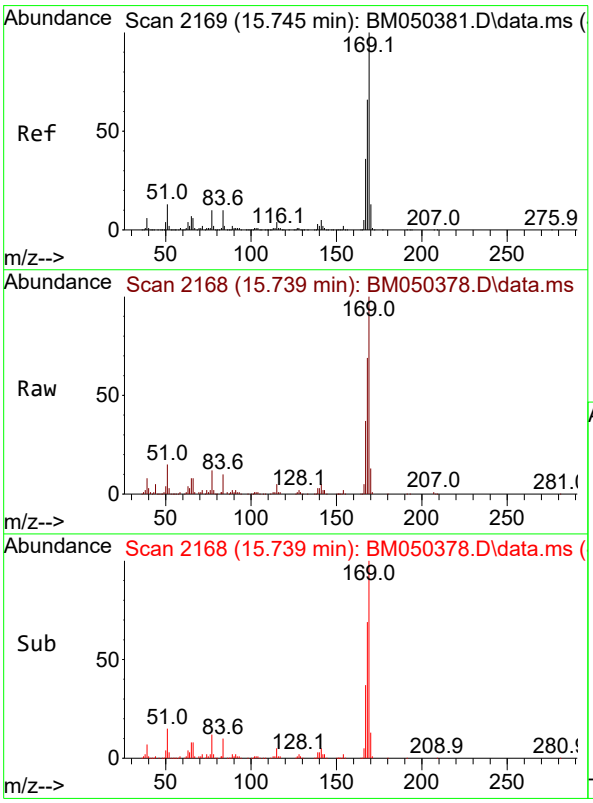
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 1453955

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.0	9.0
80	8.3	6.5	9.7

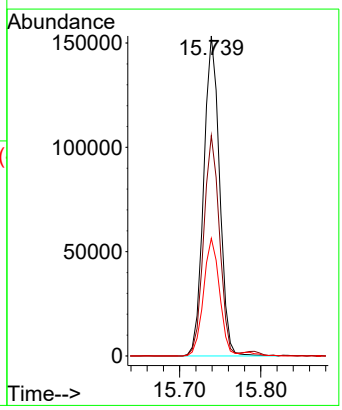


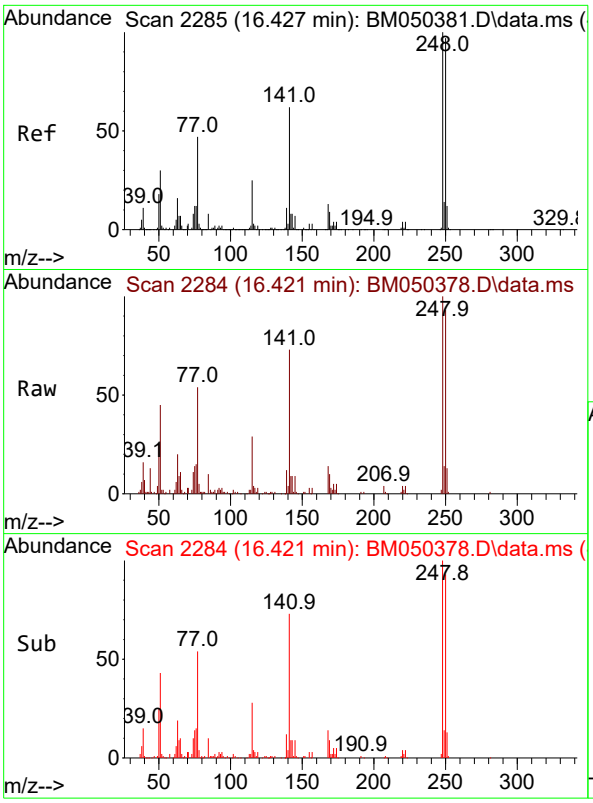


#66
n-Nitrosodiphenylamine
Concen: 4.566 ng
RT: 15.739 min Scan# 2168
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:169 Resp: 207747

Ion	Ratio	Lower	Upper
169	100		
168	68.9	53.2	79.8
167	36.8	28.7	43.1



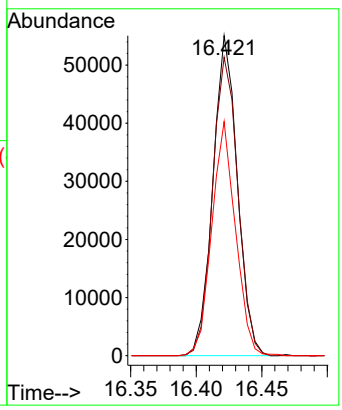


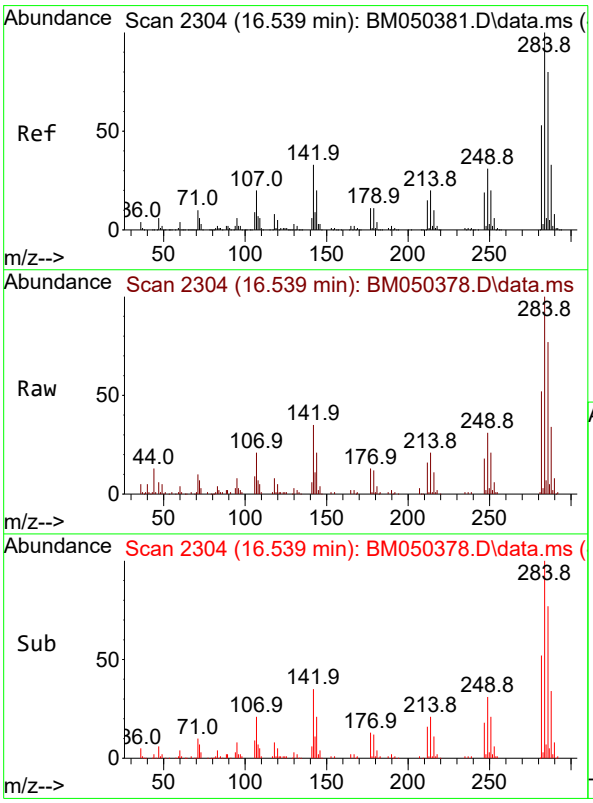
#67
4-Bromophenyl-phenylether
Concen: 4.450 ng
RT: 16.421 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 71279

Ion	Ratio	Lower	Upper
248	100		
250	93.3	77.9	116.9
141	73.2	49.7	74.5

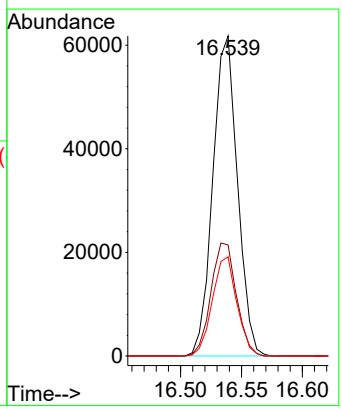


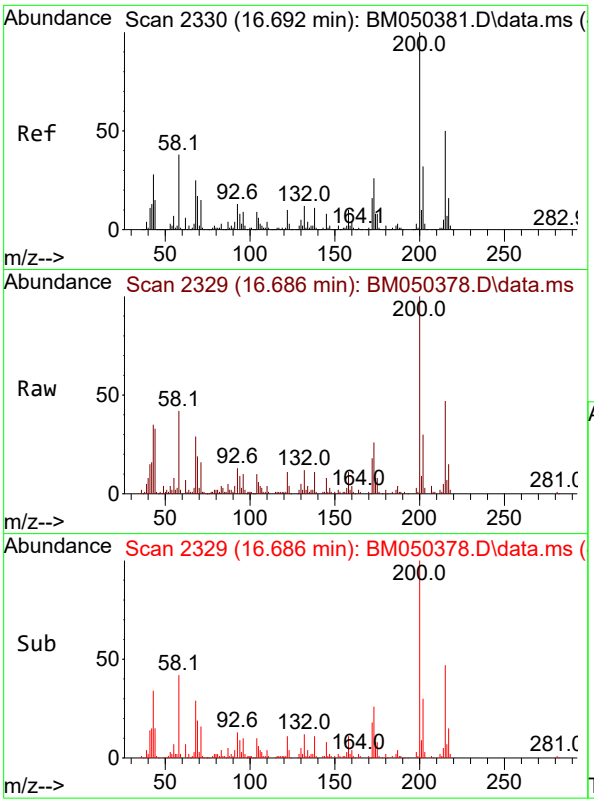


#68
Hexachlorobenzene
Concen: 4.587 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:284 Resp: 86781

Ion	Ratio	Lower	Upper
284	100		
142	34.7	26.8	40.2
249	31.0	24.5	36.7



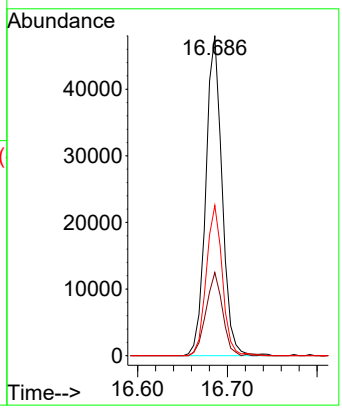


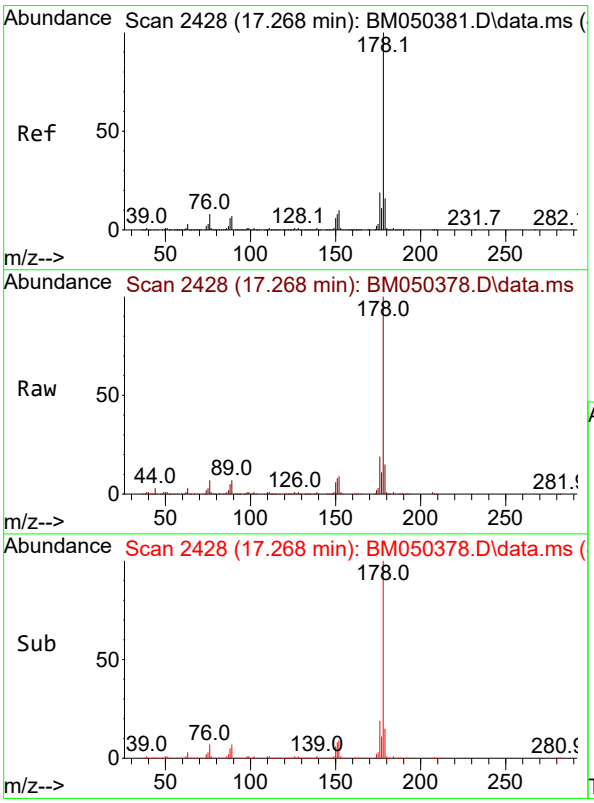
#69
Atrazine
Concen: 4.046 ng
RT: 16.686 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 60444

Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.6	45.6
215	47.0	29.6	69.6

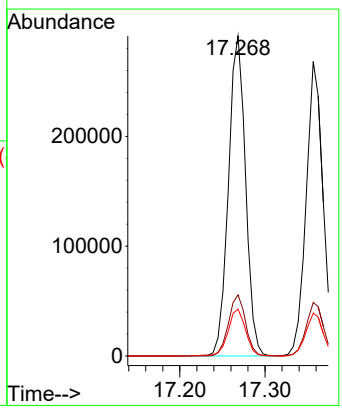


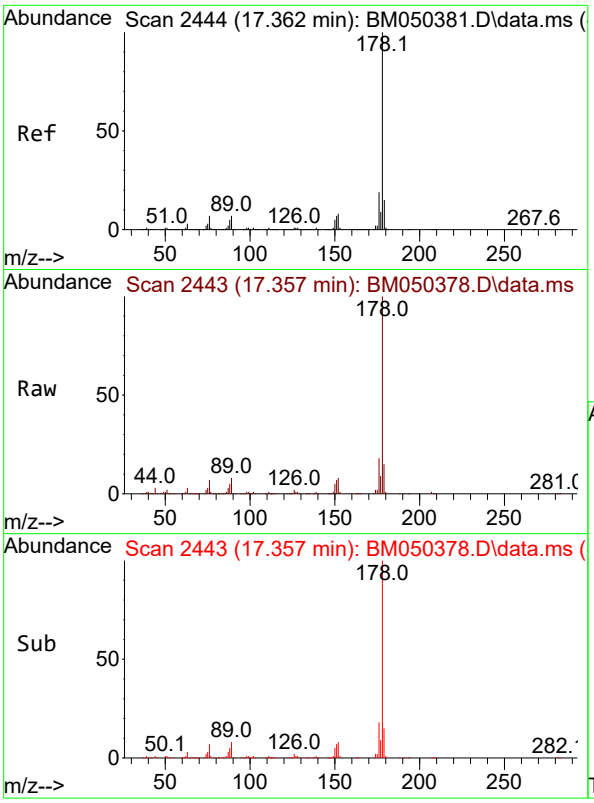


#71
Phenanthrene
Concen: 4.943 ng
RT: 17.268 min Scan# 2428
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:178 Resp: 406647

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	14.7	12.5	18.7



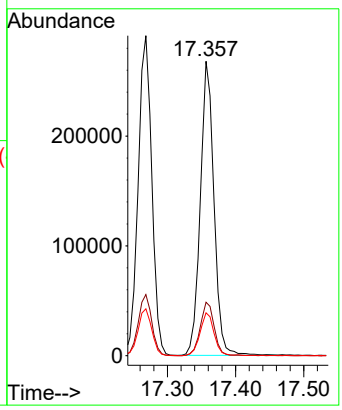


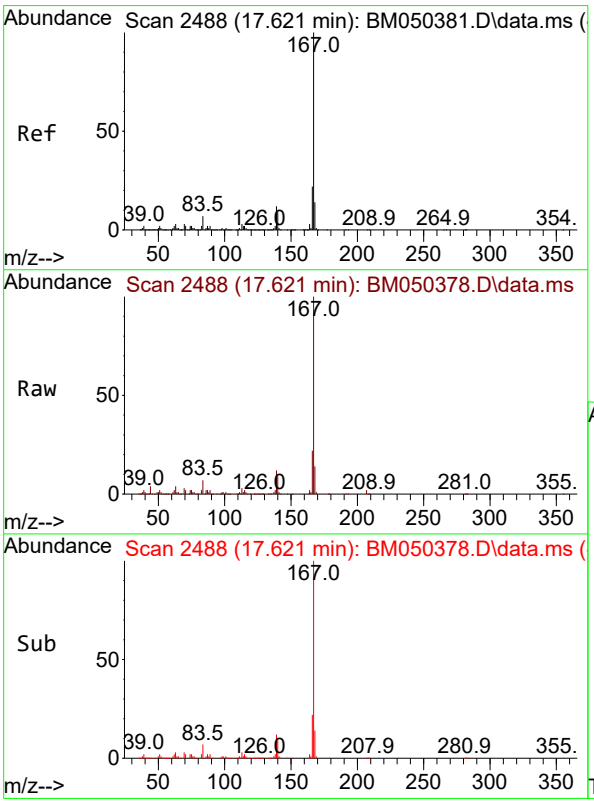
#72
Anthracene
Concen: 4.563 ng
RT: 17.357 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 373674

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.9	22.3
179	14.6	12.2	18.4

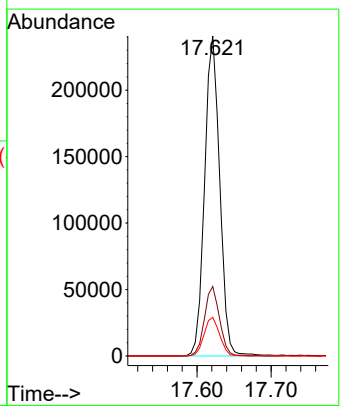


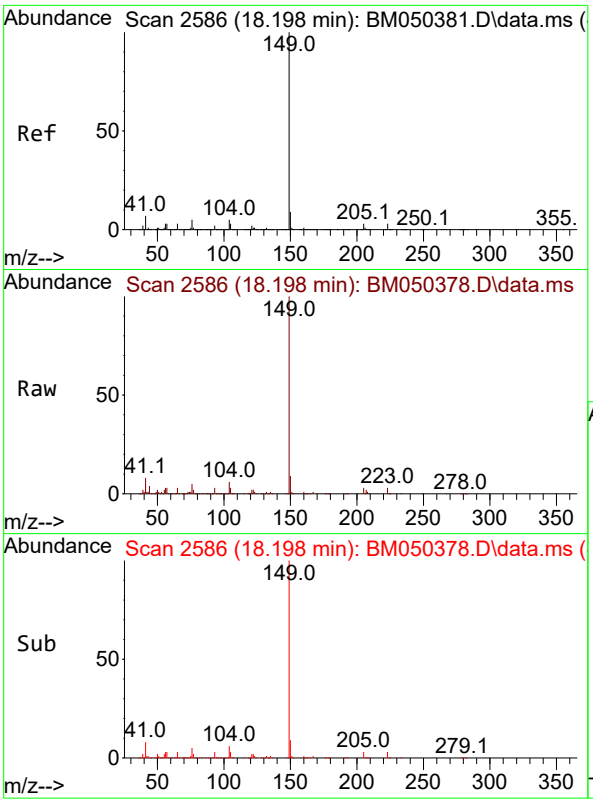


#73
Carbazole
Concen: 4.605 ng
RT: 17.621 min Scan# 2488
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:167 Resp: 341196

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.2	25.8
139	12.1	9.9	14.9



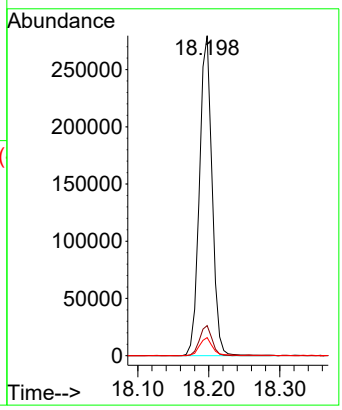


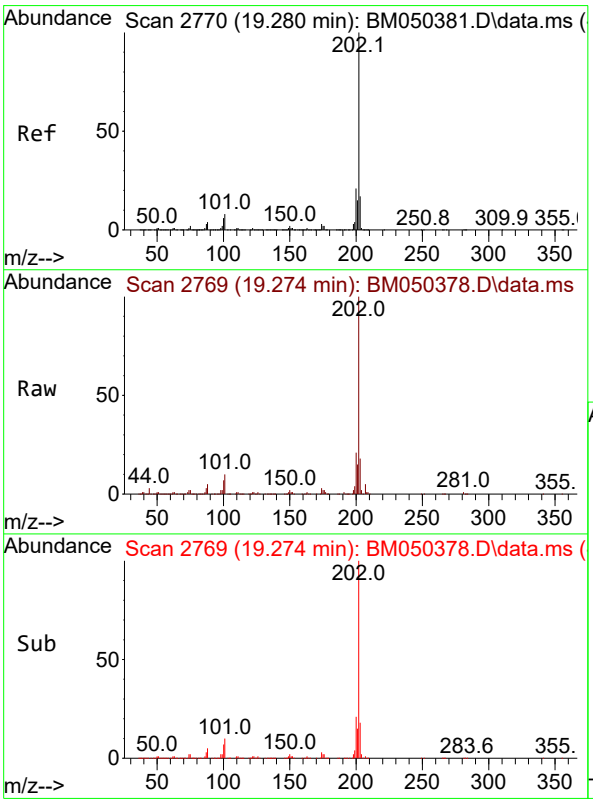
#74
Di-n-butylphthalate
Concen: 4.274 ng
RT: 18.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 346654

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.3	10.9
104	5.7	3.9	5.9

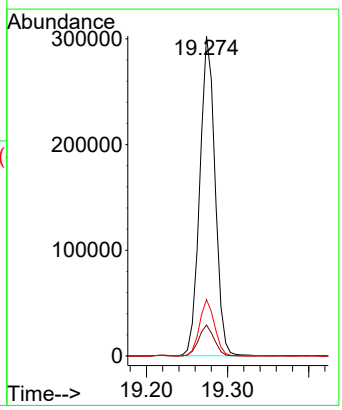


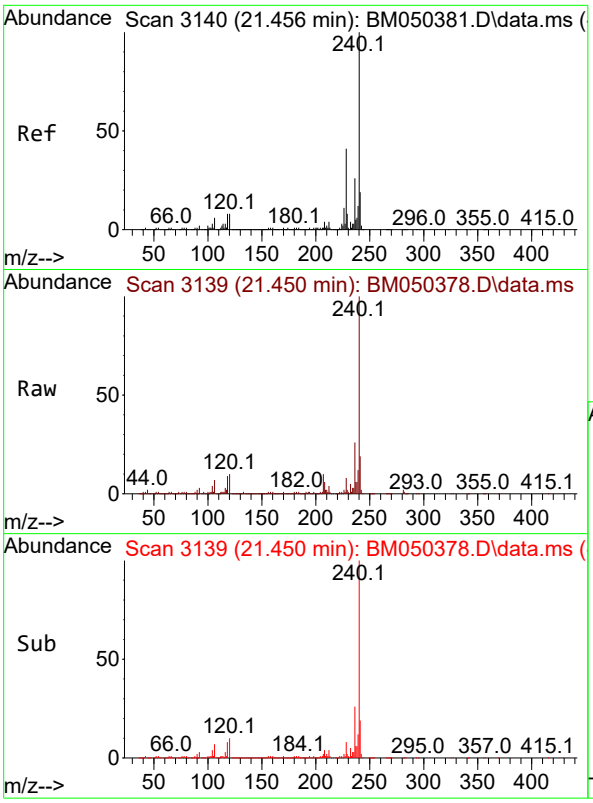


#75
Fluoranthene
Concen: 4.421 ng
RT: 19.274 min Scan# 2769
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:202 Resp: 395390

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	28.3
203	17.6	0.0	37.2



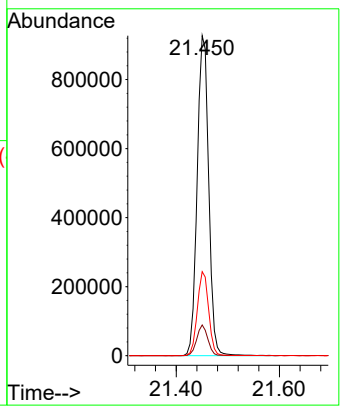


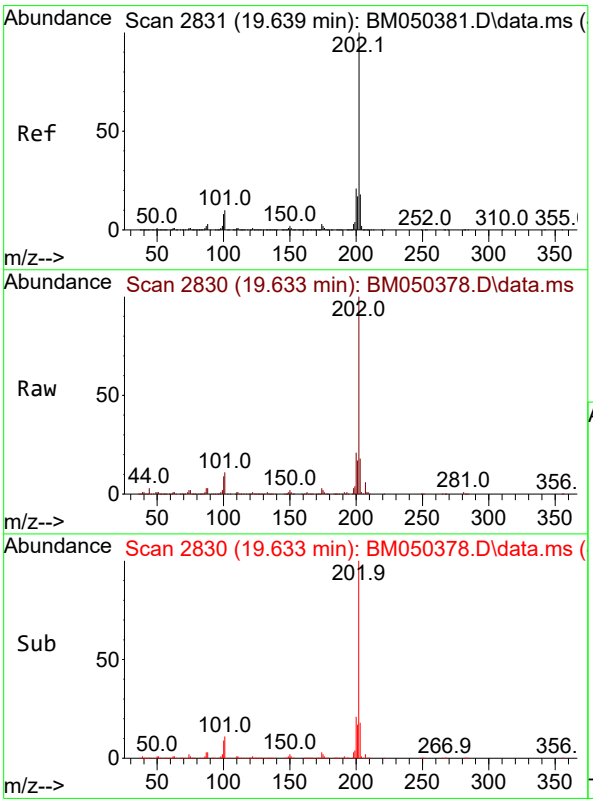
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.450 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:240 Resp: 1431554

Ion	Ratio	Lower	Upper
240	100		
120	9.6	6.7	10.1
236	26.3	20.7	31.1

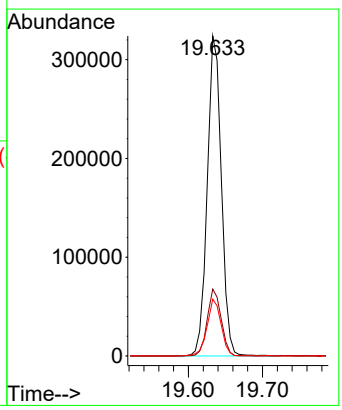


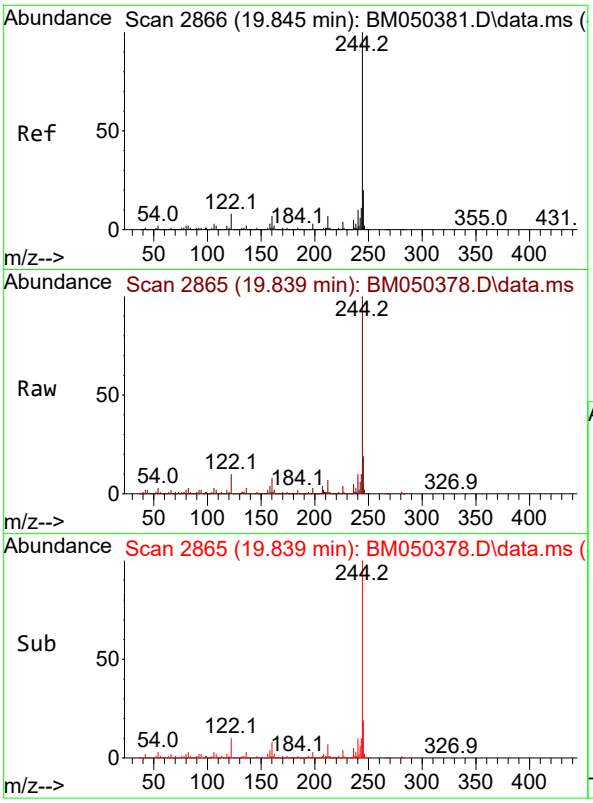


#78
Pyrene
Concen: 4.676 ng
RT: 19.633 min Scan# 2830
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:202 Resp: 428758

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.9	25.3
203	17.7	14.1	21.1



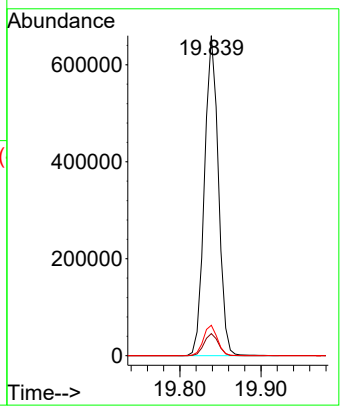


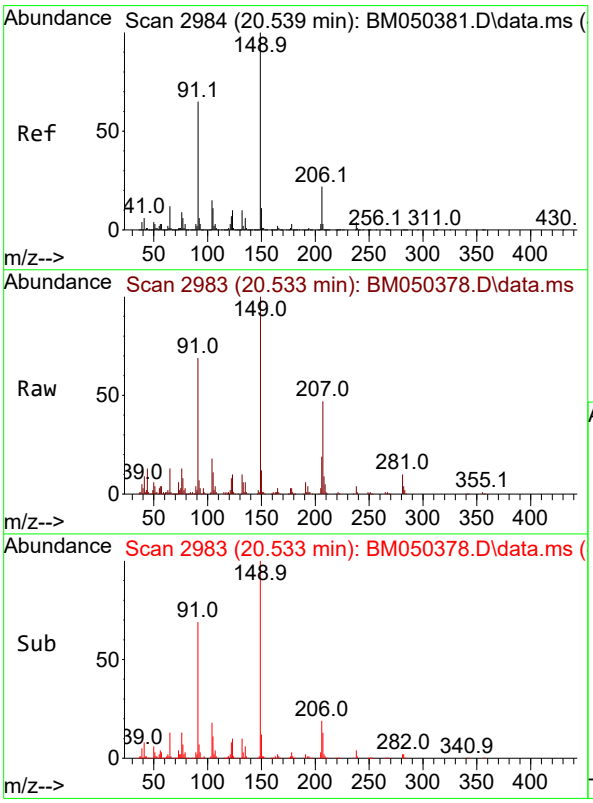
#79
Terphenyl-d14
Concen: 9.630 ng
RT: 19.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 783562

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	9.5	6.2	9.2#

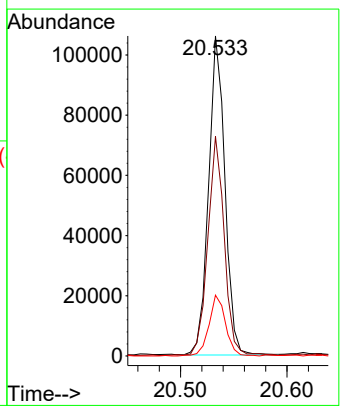


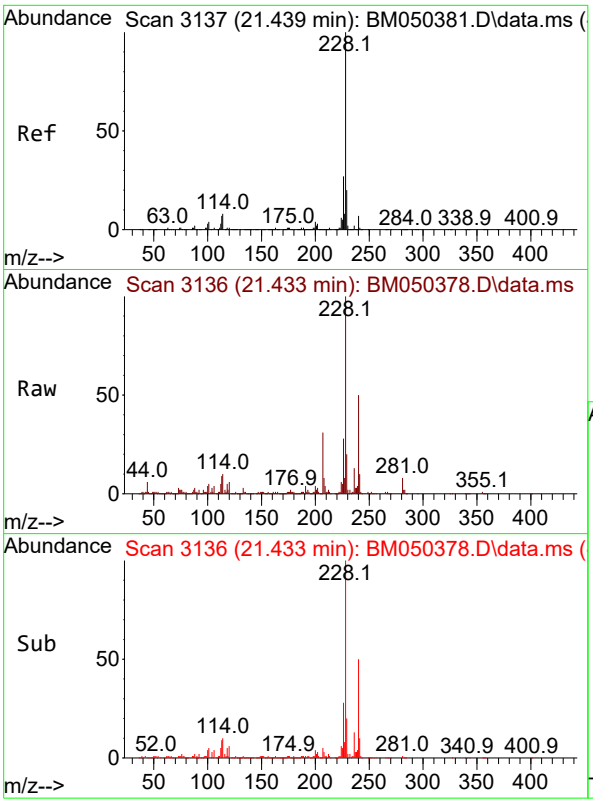


#80
Butylbenzylphthalate
Concen: 3.757 ng
RT: 20.533 min Scan# 2983
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:149 Resp: 113580

Ion	Ratio	Lower	Upper
149	100		
91	68.6	51.6	77.4
206	19.0	17.8	26.8



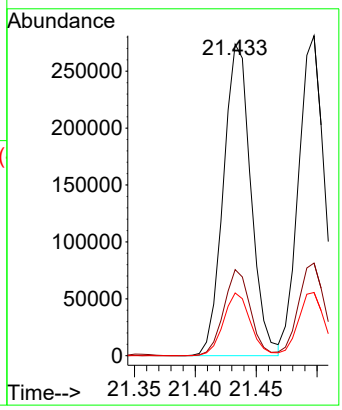


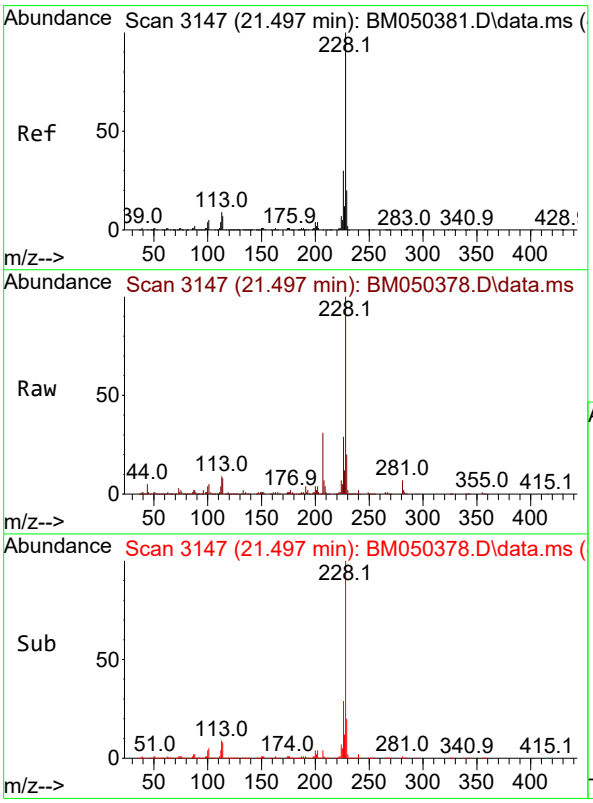
#81
Benzo(a)anthracene
Concen: 4.620 ng
RT: 21.433 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 430980

Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.8	32.8
229	20.1	16.0	24.0

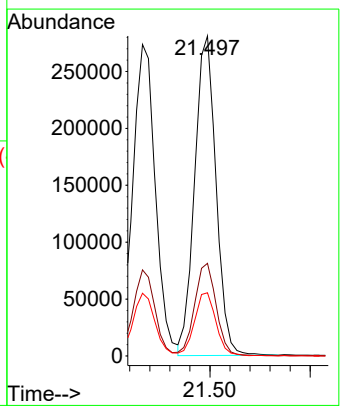


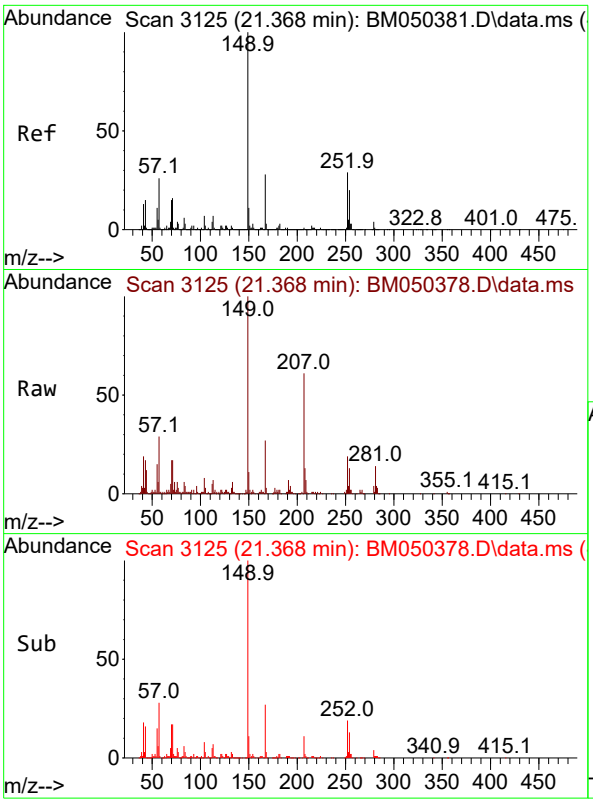


#83
Chrysene
Concen: 4.727 ng
RT: 21.497 min Scan# 3147
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:228 Resp: 415885

Ion	Ratio	Lower	Upper
228	100		
226	29.0	24.2	36.4
229	19.8	15.8	23.6



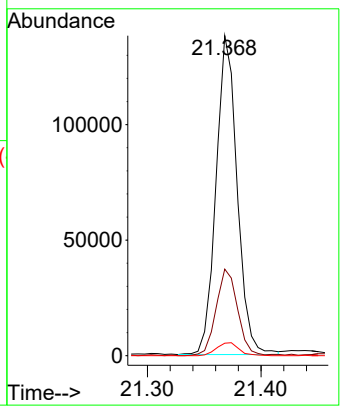


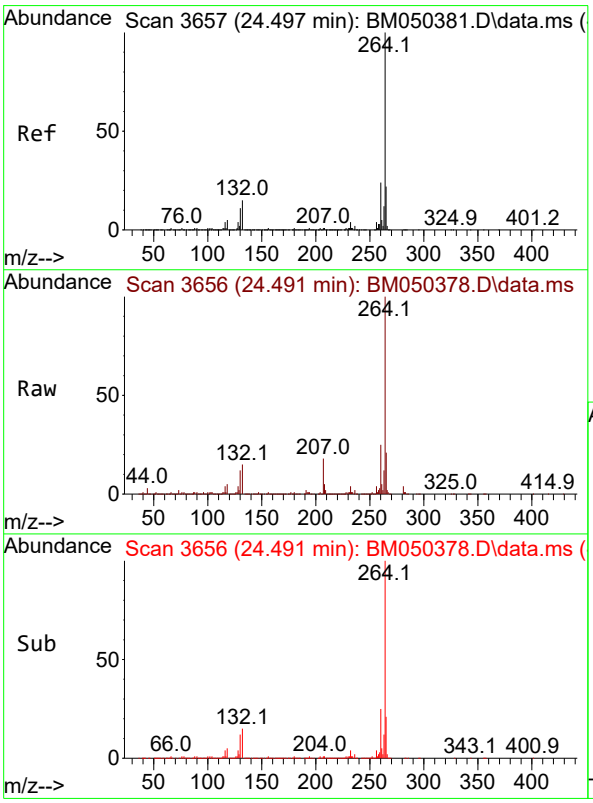
#84
Bis(2-ethylhexyl)phthalate
Concen: 3.724 ng
RT: 21.368 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 178701

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.7	34.1
279	3.9	3.5	5.3

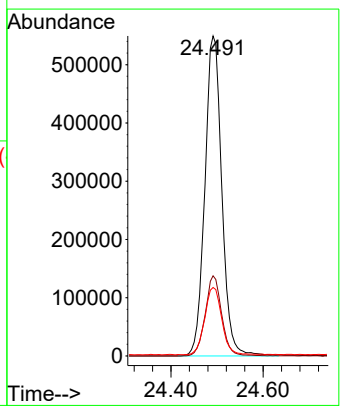


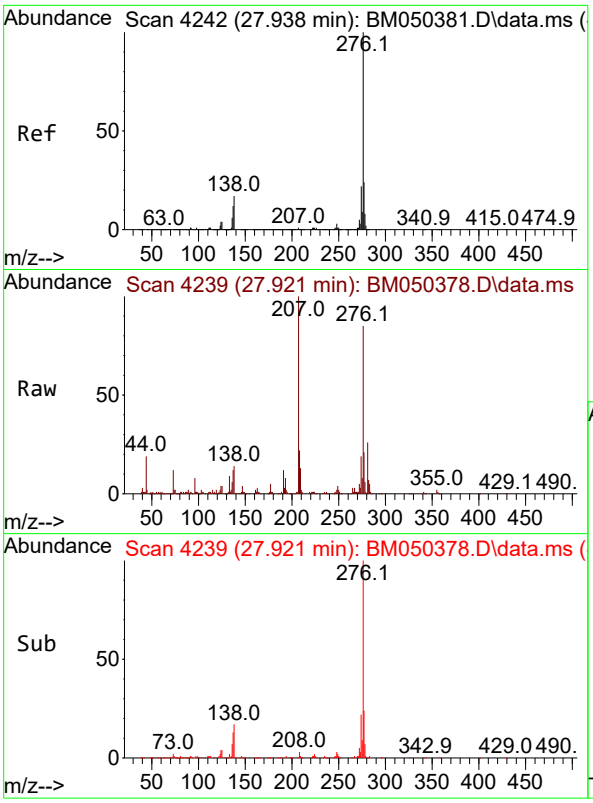


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.491 min Scan# 3656
Delta R.T. -0.006 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:264 Resp: 1410719

Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	21.4	17.8	26.6



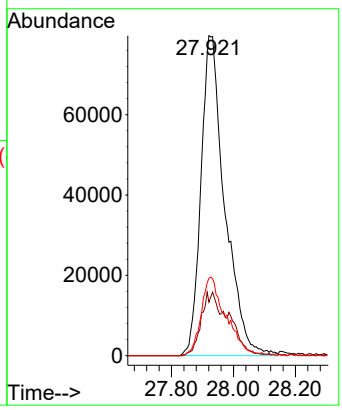


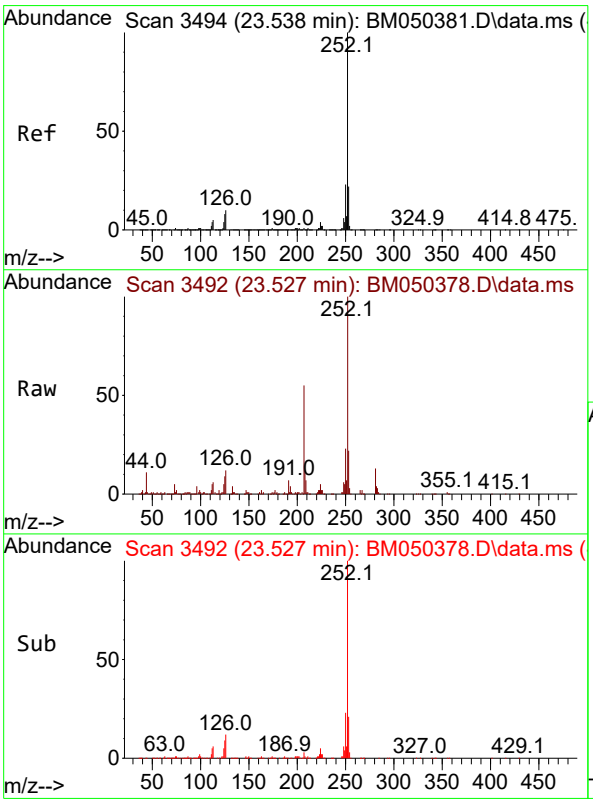
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.249 ng
RT: 27.921 min Scan# 4
Delta R.T. -0.018 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 426152

Ion	Ratio	Lower	Upper
276	100		
138	17.1	17.0	25.6
277	25.5	20.0	30.0

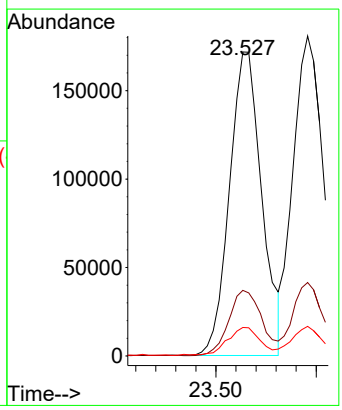


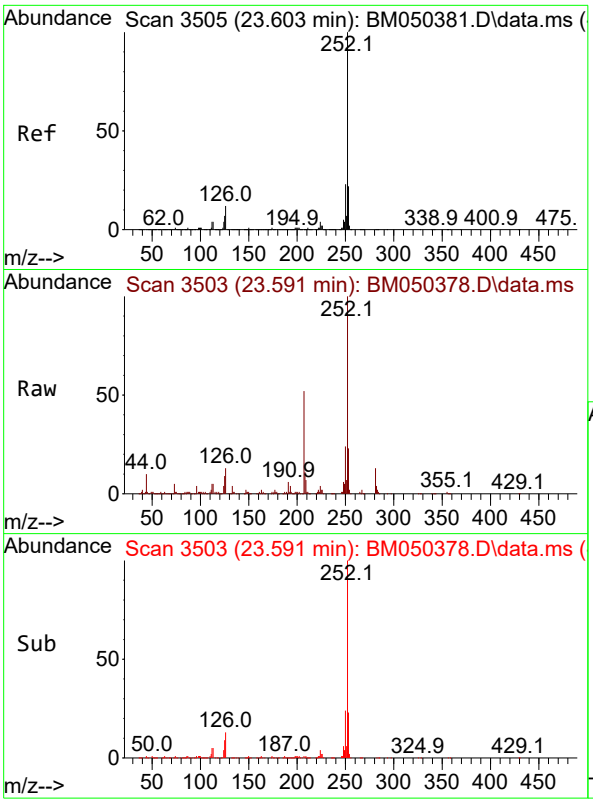


#88
Benzo(b)fluoranthene
Concen: 4.431 ng
RT: 23.527 min Scan# 3492
Delta R.T. -0.012 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:252 Resp: 384470

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	9.4	6.3	9.5



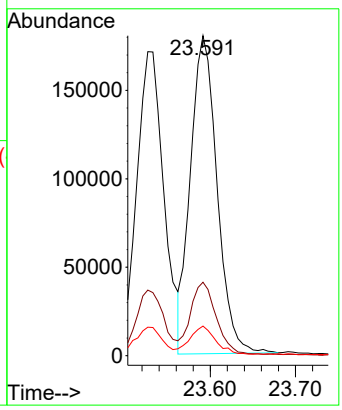


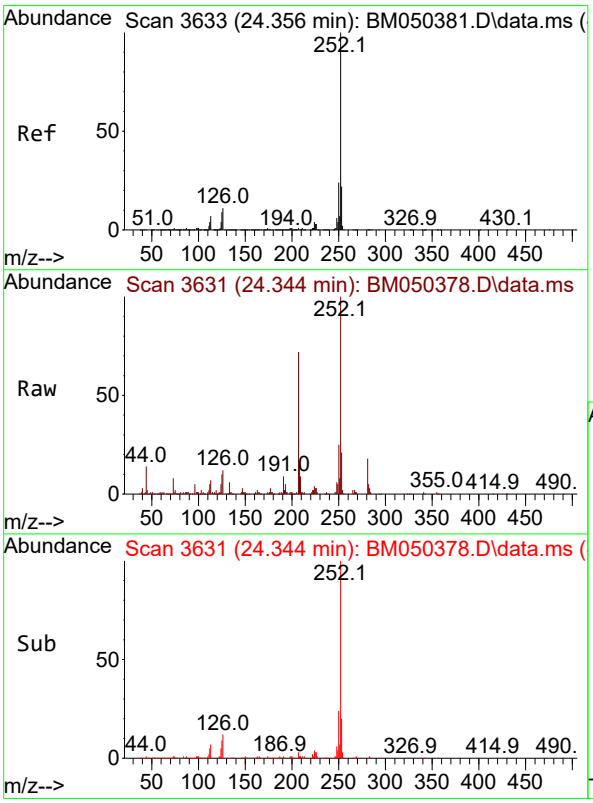
#89
Benzo(k)fluoranthene
Concen: 4.330 ng
RT: 23.591 min Scan# 3
Delta R.T. -0.012 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 389878

Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.6	26.4
125	9.3	6.2	9.2#

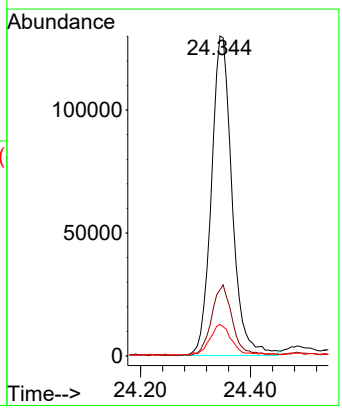


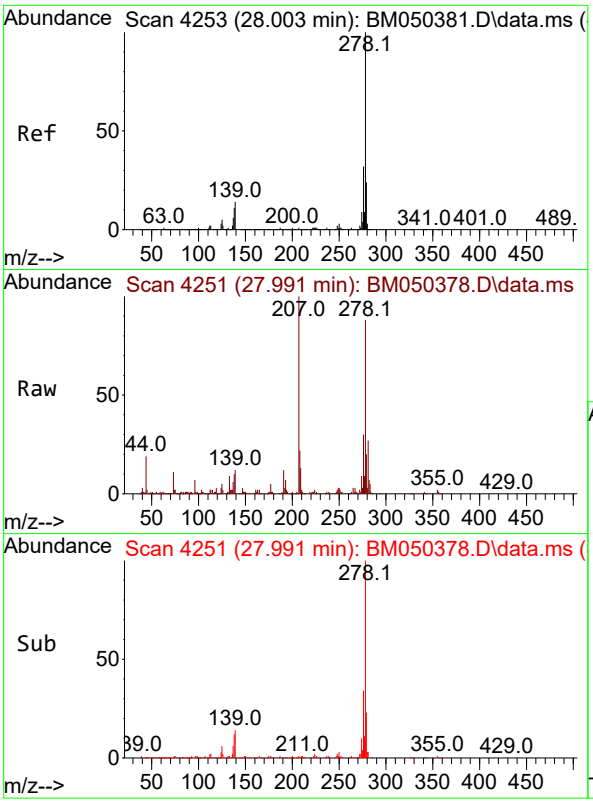


#90
Benzo(a)pyrene
Concen: 4.177 ng
RT: 24.344 min Scan# 3631
Delta R.T. -0.012 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:252 Resp: 339308

Ion	Ratio	Lower	Upper
252	100		
253	20.7	17.8	26.6
125	9.9	7.0	10.4



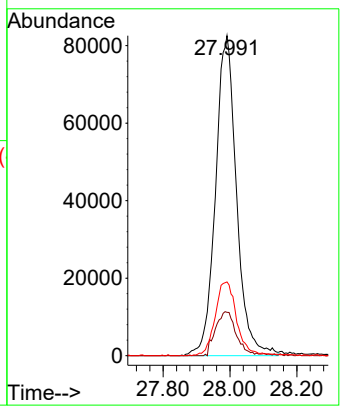


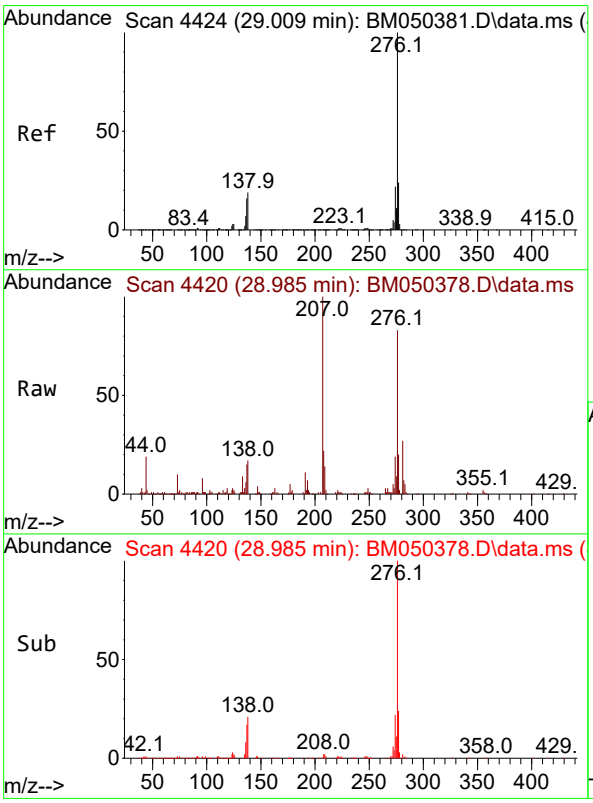
#91
Dibenzo(a,h)anthracene
Concen: 4.269 ng
RT: 27.991 min Scan# 4
Delta R.T. -0.012 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Instrument :
BNA_M
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 360576

Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.8	16.2
279	23.1	19.4	29.0

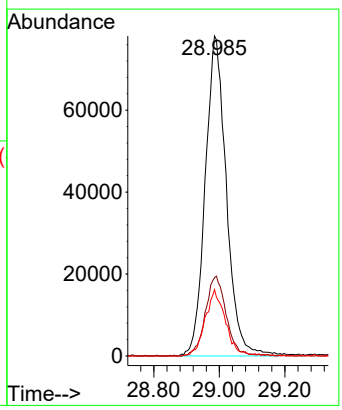




#92
Benzo(g,h,i)perylene
Concen: 4.382 ng
RT: 28.985 min Scan# 4420
Delta R.T. -0.023 min
Lab File: BM050378.D
Acq: 08 Jul 2025 13:19

Tgt Ion:276 Resp: 349804

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.1	28.7
138	20.8	14.9	22.3



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050379.D
Acq On : 08 Jul 2025 14:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 18:20:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.863	152	361961	20.000	ng		0.00
21) Naphthalene-d8	10.663	136	1342132	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	846249	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	1580349	20.000	ng		0.00
76) Chrysene-d12	21.450	240	1564213	20.000	ng		0.00
86) Perylene-d12	24.491	264	1552476	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	390415	18.566	ng		0.00
7) Phenol-d6	7.016	99	480384	18.122	ng		0.00
23) Nitrobenzene-d5	9.016	82	476926	18.129	ng		0.00
42) 2,4,6-Tribromophenol	15.968	330	165401	16.086	ng		0.00
45) 2-Fluorobiphenyl	13.121	172	1301714	18.996	ng		0.00
79) Terphenyl-d14	19.839	244	1735885	19.526	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.334	88	84322	9.752	ng		97
3) Pyridine	3.734	79	216596	9.541	ng		96
4) n-Nitrosodimethylamine	3.640	42	101622	9.602	ng	#	92
6) Aniline	7.187	93	308012	9.054	ng		99
8) 2-Chlorophenol	7.428	128	200037	9.022	ng		99
9) Benzaldehyde	6.998	77	170875m	10.835	ng		
10) Phenol	7.045	94	255531	9.242	ng		99
11) bis(2-Chloroethyl)ether	7.281	93	205153	9.265	ng		95
12) 1,3-Dichlorobenzene	7.757	146	257848	9.564	ng		99
13) 1,4-Dichlorobenzene	7.898	146	264062	9.592	ng		99
14) 1,2-Dichlorobenzene	8.222	146	252415	9.577	ng		96
15) Benzyl Alcohol	8.098	79	164181	8.790	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.392	45	315036	9.659	ng		100
17) 2-Methylphenol	8.298	107	162594	9.067	ng		96
18) Hexachloroethane	8.951	117	90719	9.370	ng		95
19) n-Nitroso-di-n-propyla...	8.669	70	146225	9.106	ng		98
20) 3+4-Methylphenols	8.622	107	211795	8.798	ng		99
22) Acetophenone	8.681	105	321333	9.576	ng	#	98
24) Nitrobenzene	9.057	77	220849	9.408	ng		98
25) Isophorone	9.586	82	385498	9.031	ng		98
26) 2-Nitrophenol	9.769	139	74836	7.822	ng		92
27) 2,4-Dimethylphenol	9.828	122	184710	9.073	ng		99
28) bis(2-Chloroethoxy)met...	10.069	93	264798	9.361	ng		99
29) 2,4-Dichlorophenol	10.304	162	187427	8.961	ng		99
30) 1,2,4-Trichlorobenzene	10.528	180	234305	9.364	ng		97
31) Naphthalene	10.710	128	653977	9.593	ng		99
32) Benzoic acid	9.886	122	67388	10.696	ng		97
33) 4-Chloroaniline	10.810	127	266307	9.240	ng		99
34) Hexachlorobutadiene	11.004	225	140567	9.205	ng		94
35) Caprolactam	11.557	113	42675	7.474	ng		94
36) 4-Chloro-3-methylphenol	11.927	107	171511	8.781	ng		97
37) 2-Methylnaphthalene	12.322	142	399569	9.283	ng		99
38) 1-Methylnaphthalene	12.539	142	422148	9.267	ng		98
40) 1,2,4,5-Tetrachloroben...	12.686	216	240904	8.952	ng		99
41) Hexachlorocyclopentadiene	12.680	237	135571	7.881	ng		100
43) 2,4,6-Trichlorophenol	12.922	196	141791	8.560	ng		97

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050379.D
Acq On : 08 Jul 2025 14:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 18:20:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.992	196	159049	8.792	ng		97
46) 1,1'-Biphenyl	13.327	154	600373	9.562	ng		99
47) 2-Chloronaphthalene	13.369	162	476534	9.519	ng		99
48) 2-Nitroaniline	13.563	65	89190	7.982	ng		96
49) Acenaphthylene	14.216	152	701534	9.273	ng		99
50) Dimethylphthalate	13.945	163	543665	9.331	ng		99
51) 2,6-Dinitrotoluene	14.057	165	94728	8.468	ng		94
52) Acenaphthene	14.557	154	444228	9.236	ng		95
53) 3-Nitroaniline	14.380	138	97828	8.223	ng	#	93
54) 2,4-Dinitrophenol	14.586	184	31123	11.045	ng		99
55) Dibenzofuran	14.892	168	708153	9.555	ng		98
56) 4-Nitrophenol	14.680	139	76886	7.515	ng		98
57) 2,4-Dinitrotoluene	14.839	165	117194	9.325	ng		92
58) Fluorene	15.539	166	562098	9.208	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.110	232	129591	8.509	ng		97
60) Diethylphthalate	15.310	149	512043	9.200	ng		98
61) 4-Chlorophenyl-phenyle...	15.533	204	284655	8.918	ng		96
62) 4-Nitroaniline	15.539	138	96460	9.259	ng		90
63) Azobenzene	15.821	77	472164	9.239	ng		95
65) 4,6-Dinitro-2-methylph...	15.598	198	45307	10.934	ng		97
66) n-Nitrosodiphenylamine	15.739	169	455683	9.215	ng		99
67) 4-Bromophenyl-phenylether	16.421	248	153426	8.812	ng		94
68) Hexachlorobenzene	16.539	284	184262	8.960	ng		97
69) Atrazine	16.686	200	137949	8.495	ng		98
70) Pentachlorophenol	16.874	266	96207	7.515	ng		99
71) Phenanthrene	17.268	178	845393	9.454	ng		99
72) Anthracene	17.357	178	803377	9.025	ng		99
73) Carbazole	17.621	167	746026	9.263	ng		100
74) Di-n-butylphthalate	18.198	149	759019	8.610	ng		99
75) Fluoranthene	19.274	202	852385	8.768	ng		98
77) Benzidine	19.456	184	289481	7.256	ng		99
78) Pyrene	19.633	202	920751	9.191	ng		99
80) Butylbenzylphthalate	20.533	149	261606	7.920	ng		95
81) Benzo(a)anthracene	21.433	228	940127	9.224	ng		99
82) 3,3'-Dichlorobenzidine	21.356	252	274551	7.988	ng		100
83) Chrysene	21.497	228	902126	9.384	ng		100
84) Bis(2-ethylhexyl)phtha...	21.374	149	426642	8.136	ng		98
85) Di-n-octyl phthalate	22.521	149	580634	7.070	ng		98
87) Indeno(1,2,3-cd)pyrene	27.921	276	960927	8.706	ng	#	94
88) Benzo(b)fluoranthene	23.533	252	834603	8.740	ng		99
89) Benzo(k)fluoranthene	23.591	252	883703	8.919	ng		99
90) Benzo(a)pyrene	24.344	252	764280	8.550	ng		99
91) Dibenzo(a,h)anthracene	27.985	278	803056	8.639	ng		98
92) Benzo(g,h,i)perylene	28.997	276	776700	8.841	ng		99

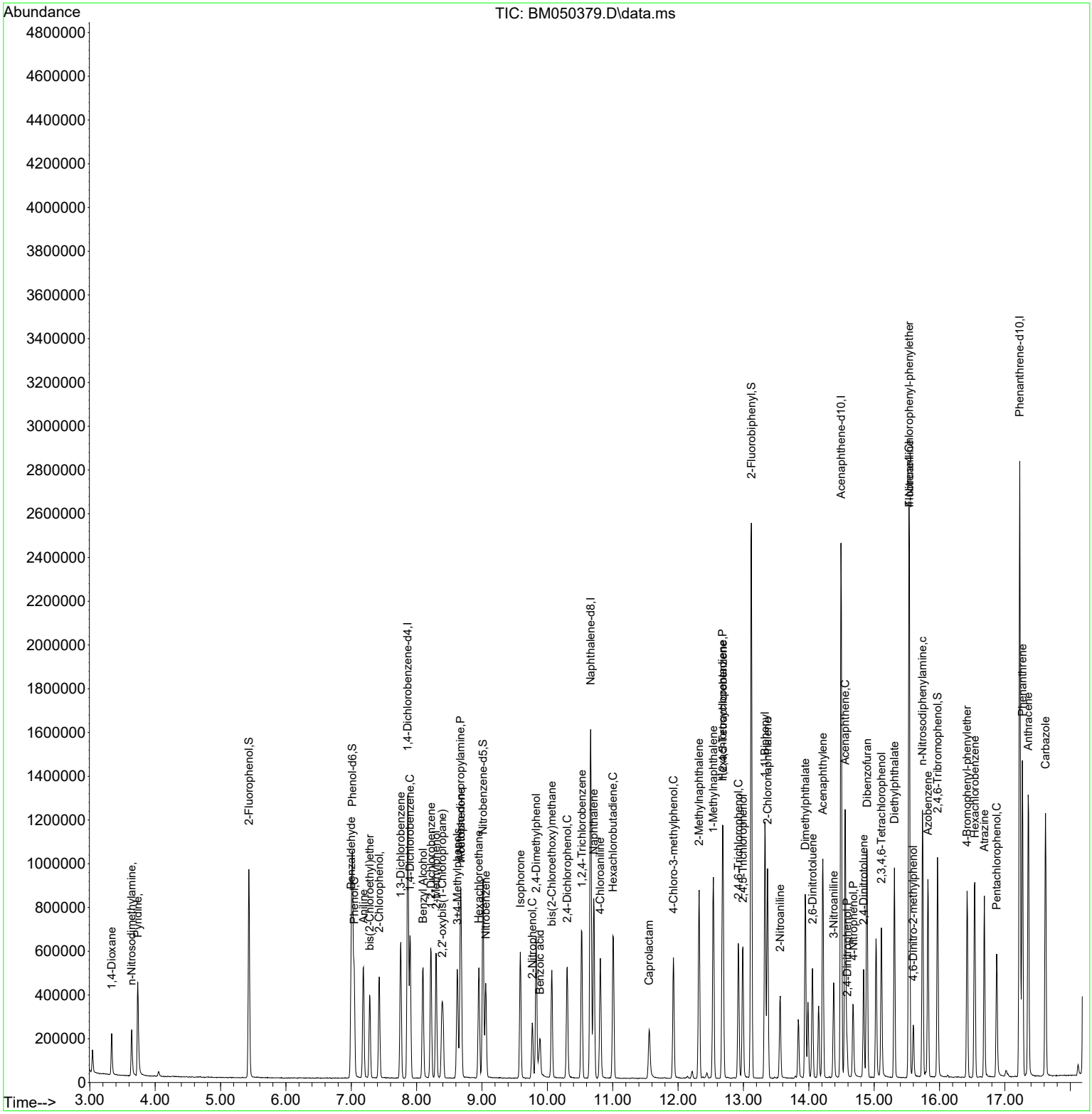
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050379.D
Acq On : 08 Jul 2025 14:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 18:20:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

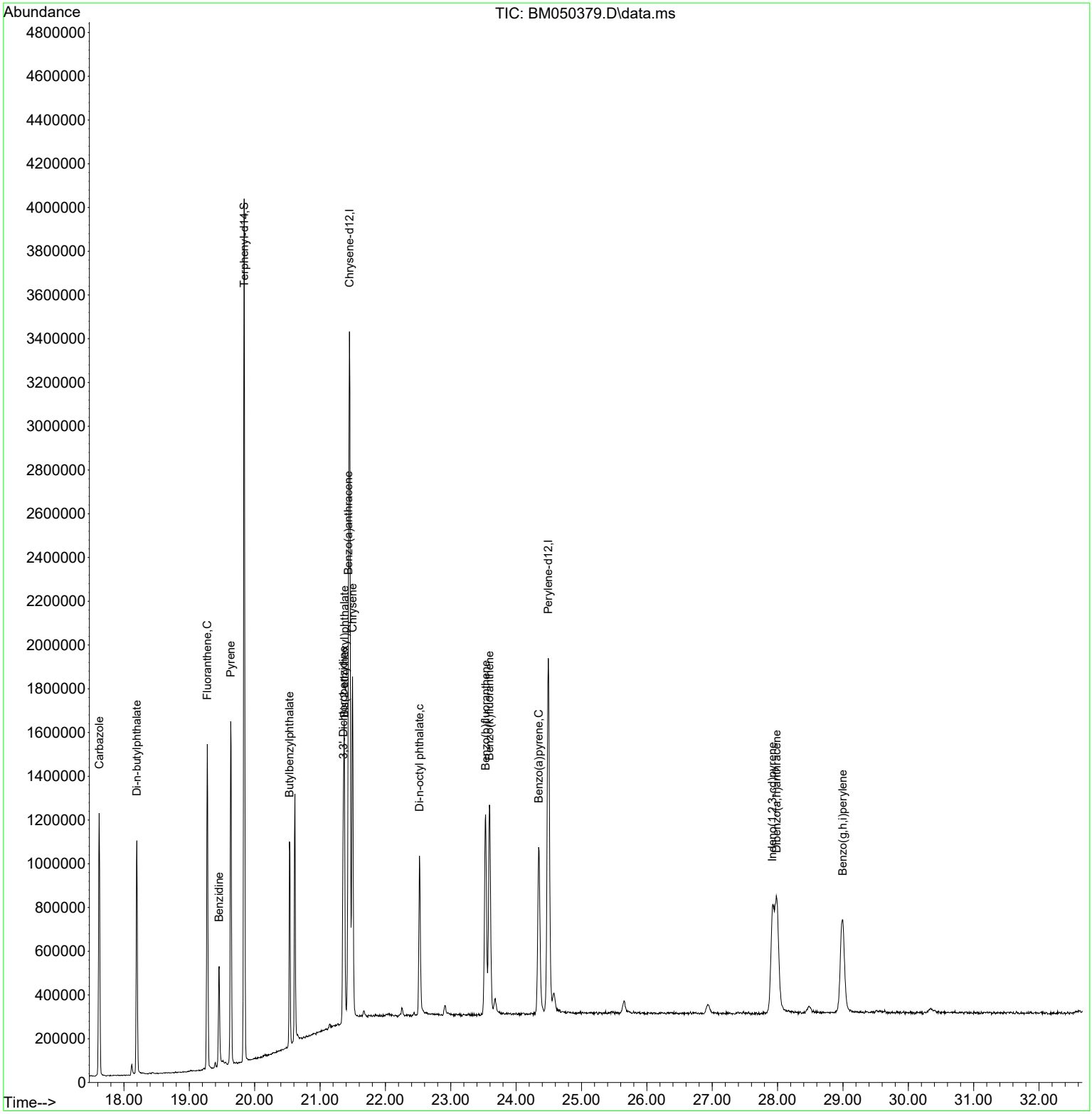


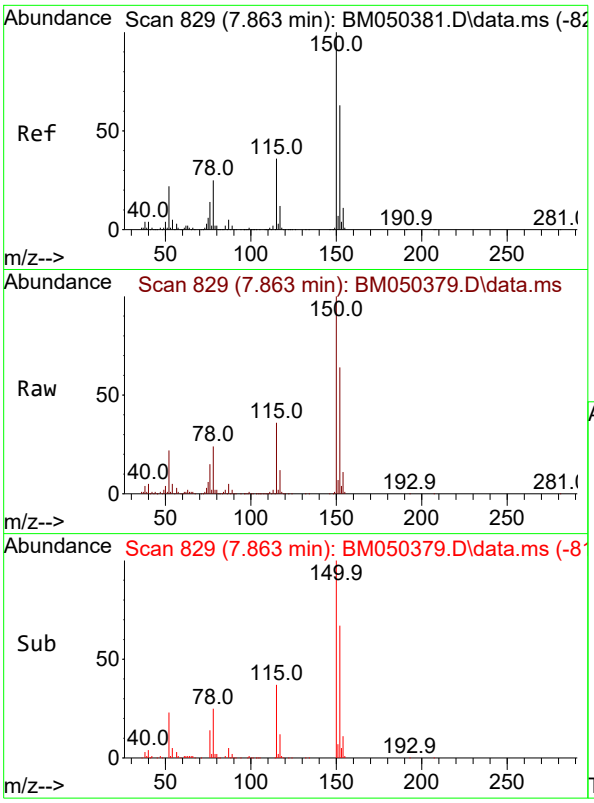
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050379.D
Acq On : 08 Jul 2025 14:00
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 08 18:20:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

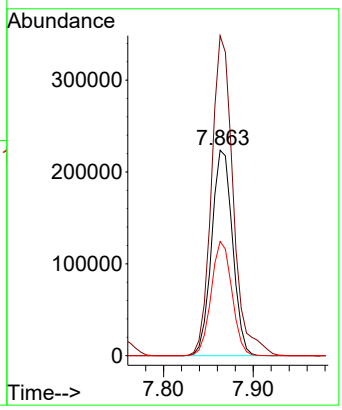




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:152 Resp: 36196

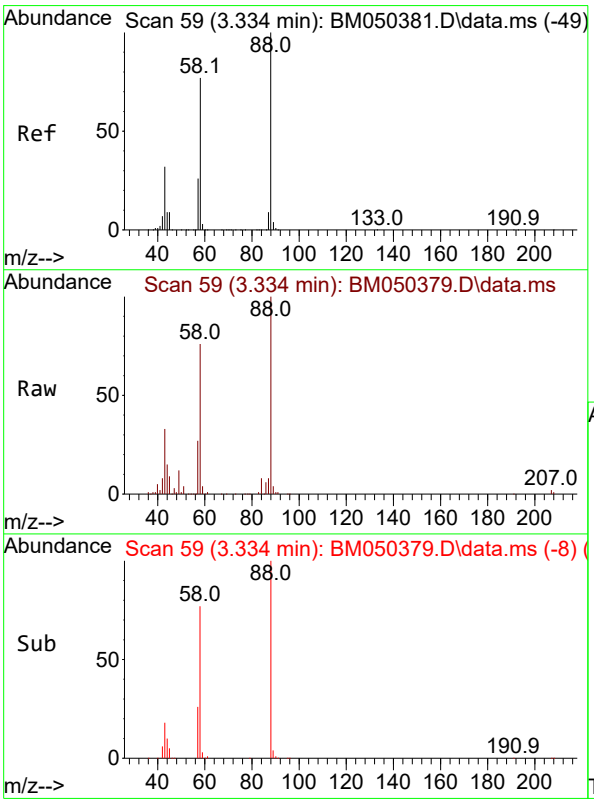
Ion	Ratio	Lower	Upper
152	100		
150	155.7	126.2	189.4
115	55.6	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

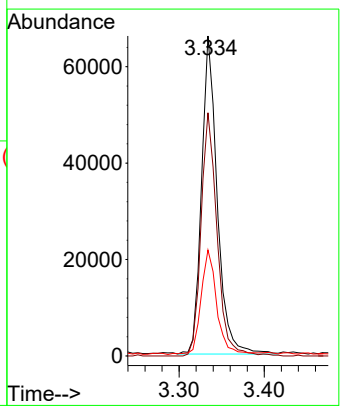
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

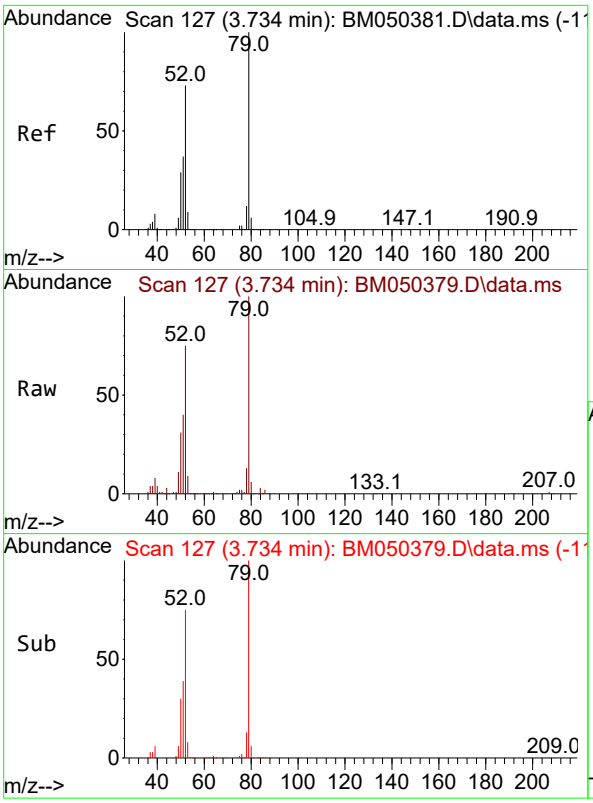


#2
1,4-Dioxane
Concen: 9.752 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 88 Resp: 84322

Ion	Ratio	Lower	Upper
88	100		
58	78.0	61.0	91.6
43	33.0	24.6	37.0

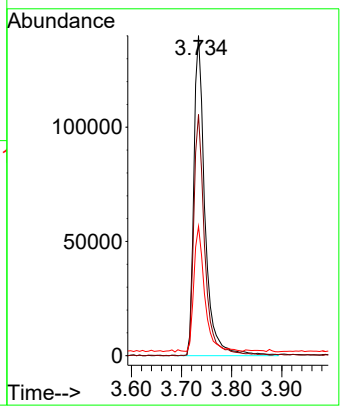




#3
Pyridine
Concen: 9.541 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 79 Resp: 21659

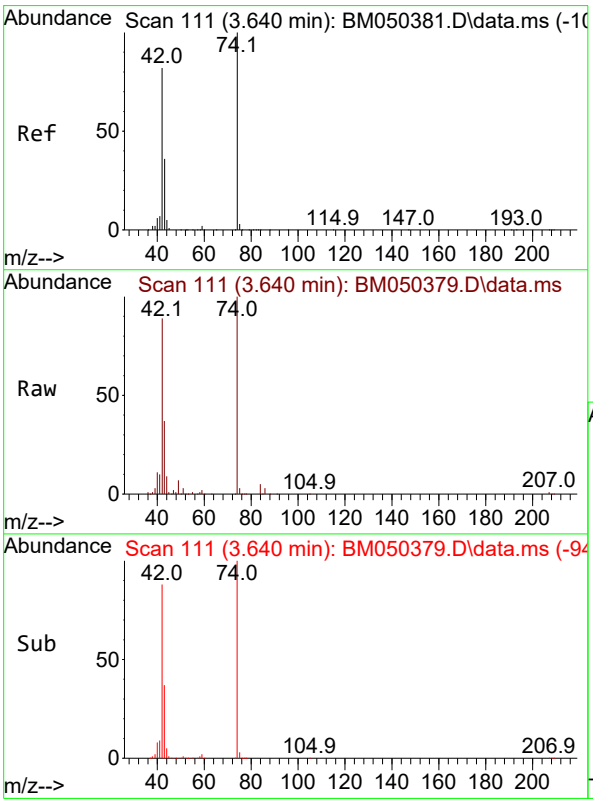
Ion	Ratio	Lower	Upper
79	100		
52	75.4	58.3	87.5
51	40.4	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

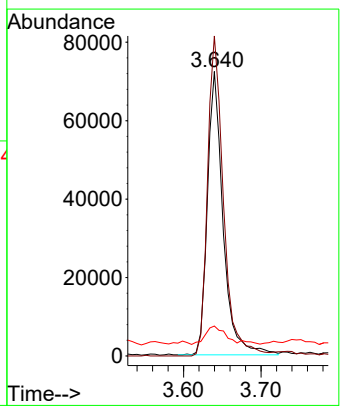
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

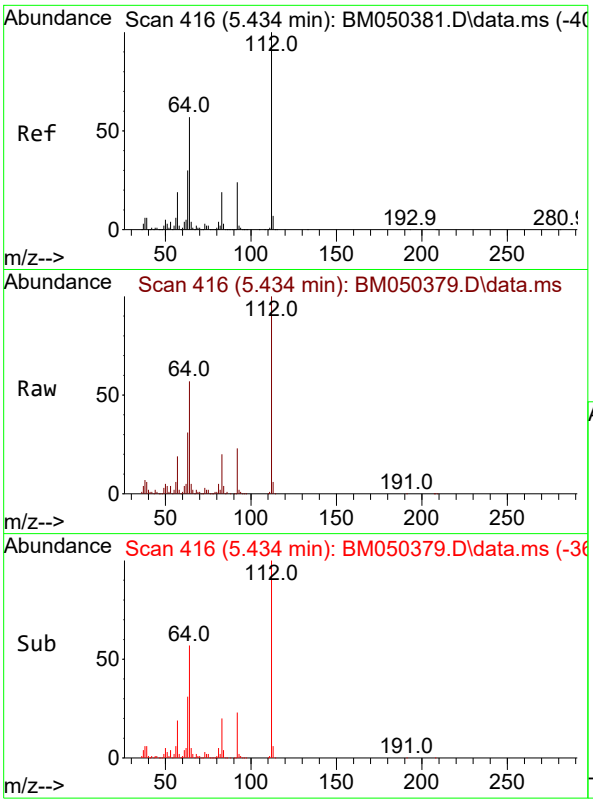


#4
n-Nitrosodimethylamine
Concen: 9.602 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 42 Resp: 101622

Ion	Ratio	Lower	Upper
42	100		
74	112.5	97.5	146.3
44	10.5	5.7	8.5#

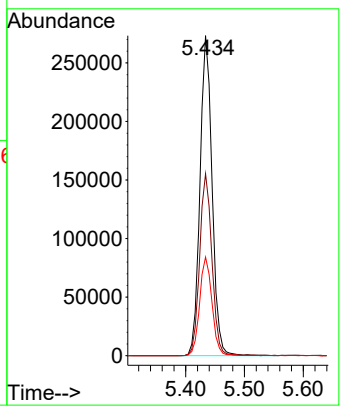




#5
2-Fluorophenol
Concen: 18.566 ng
RT: 5.434 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:112 Resp: 39041

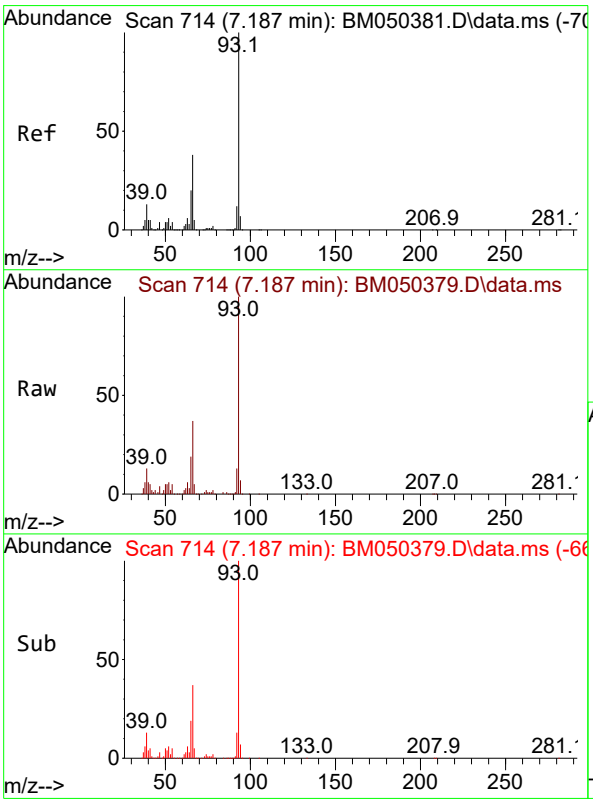
Ion	Ratio	Lower	Upper
112	100		
64	56.9	45.5	68.3
63	30.8	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

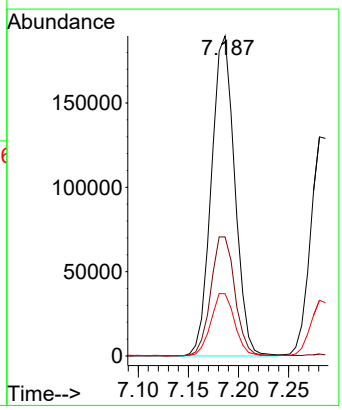
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

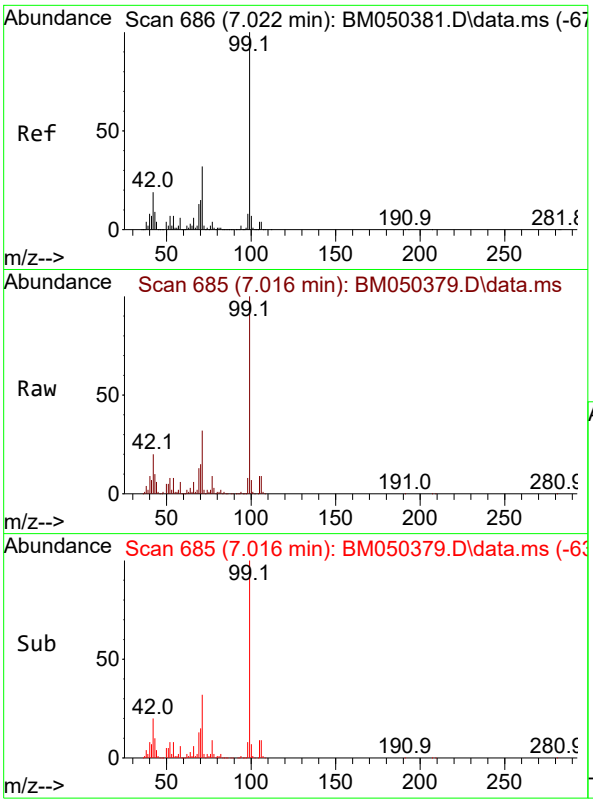


#6
Aniline
Concen: 9.054 ng
RT: 7.187 min Scan# 714
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 93 Resp: 308012

Ion	Ratio	Lower	Upper
93	100		
66	37.2	30.5	45.7
65	19.5	15.9	23.9

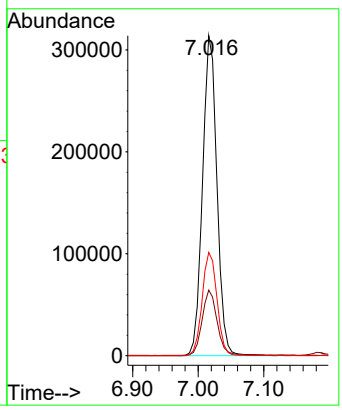




#7
Phenol-d6
Concen: 18.122 ng
RT: 7.016 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 99 Resp: 48038

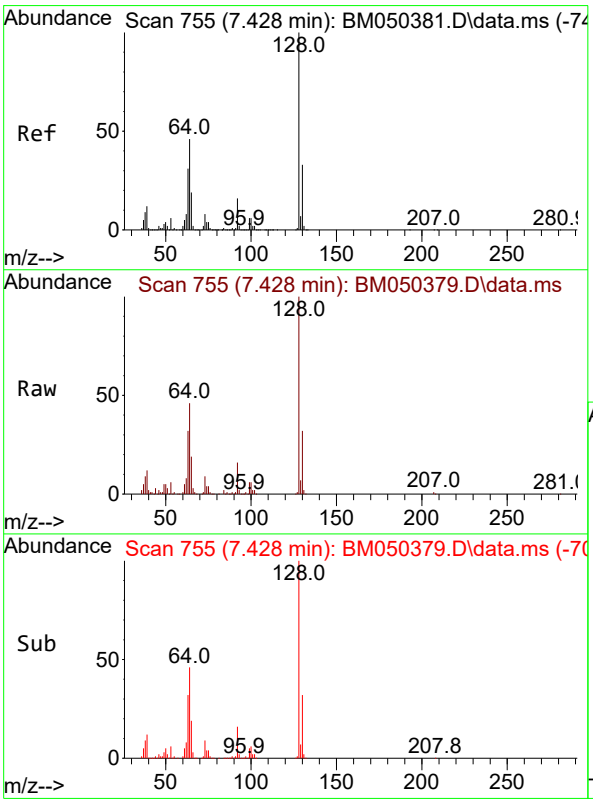
Ion	Ratio	Lower	Upper
99	100		
42	20.5	15.0	22.6
71	32.2	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

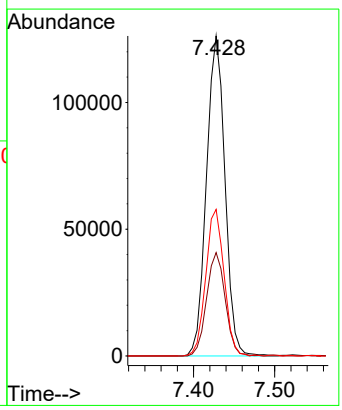
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

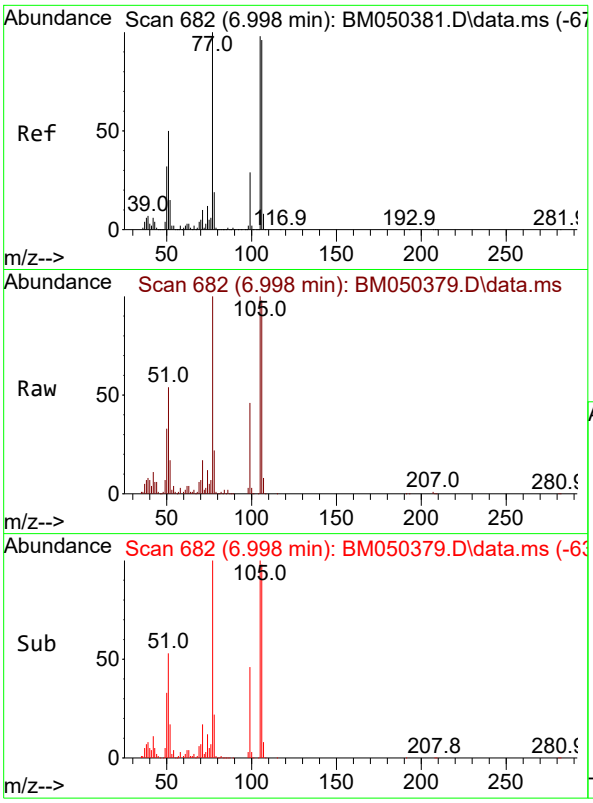


#8
2-Chlorophenol
Concen: 9.022 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:128 Resp: 200037

Ion	Ratio	Lower	Upper
128	100		
130	32.3	13.3	53.3
64	45.8	25.6	65.6

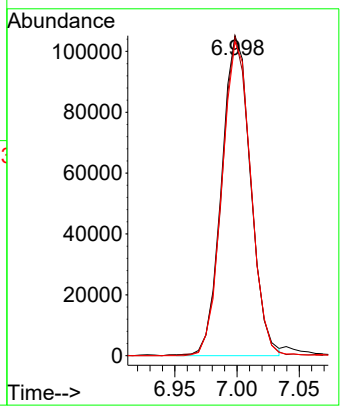




#9
Benzaldehyde
Concen: 10.835 ng m
RT: 6.998 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 77 Resp: 17087

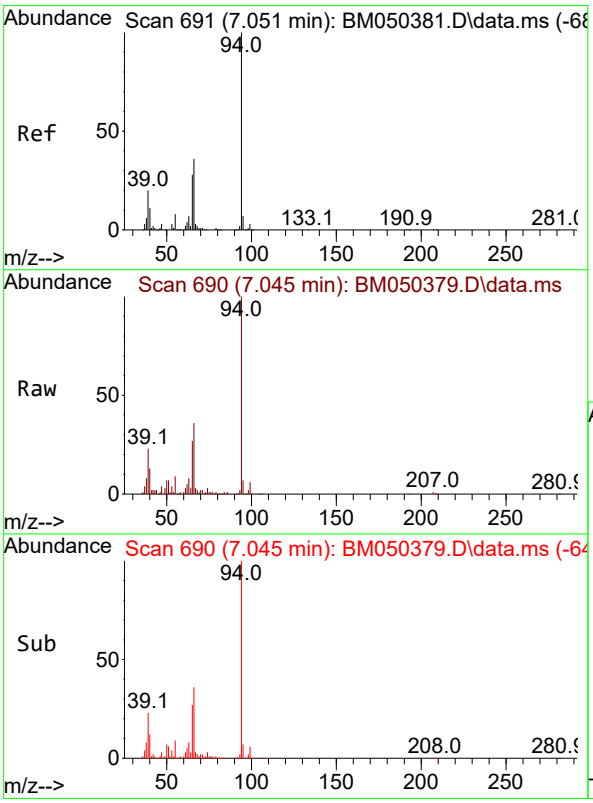
Ion	Ratio	Lower	Upper
77	100		
105	99.7	78.4	118.4
106	98.0	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

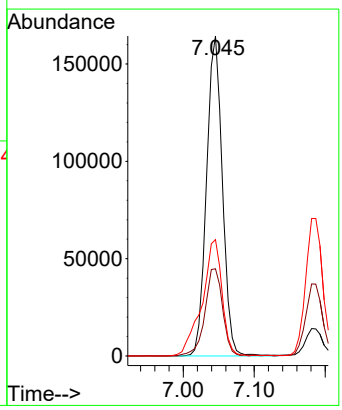
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

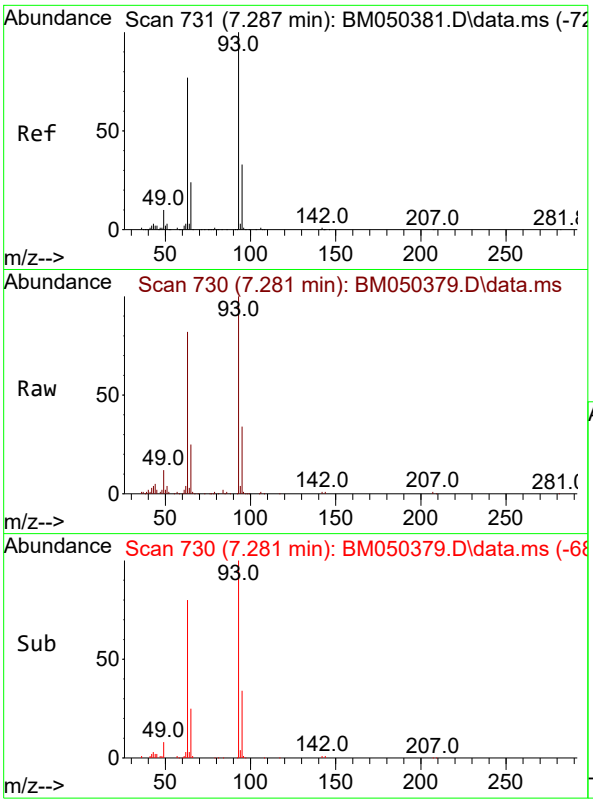


#10
Phenol
Concen: 9.242 ng
RT: 7.045 min Scan# 690
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 94 Resp: 255531

Ion	Ratio	Lower	Upper
94	100		
65	27.3	8.1	48.1
66	36.4	15.8	55.8

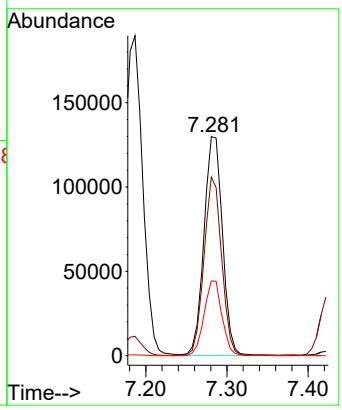




#11
bis(2-Chloroethyl)ether
Concen: 9.265 ng
RT: 7.281 min Scan# 7
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 93 Resp: 20515

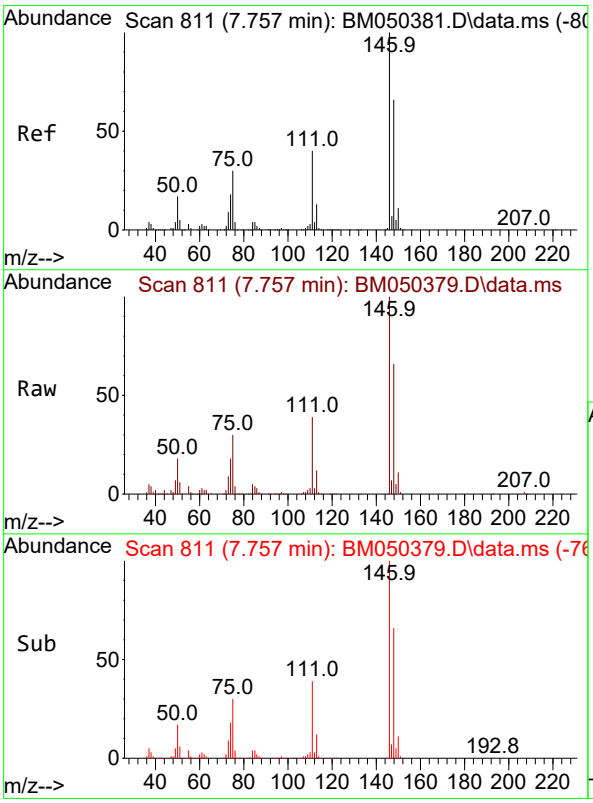
Ion	Ratio	Lower	Upper
93	100		
63	81.6	56.9	96.9
95	34.1	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

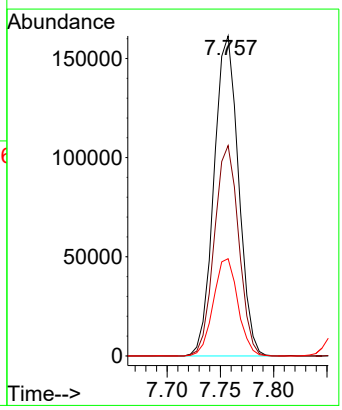
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

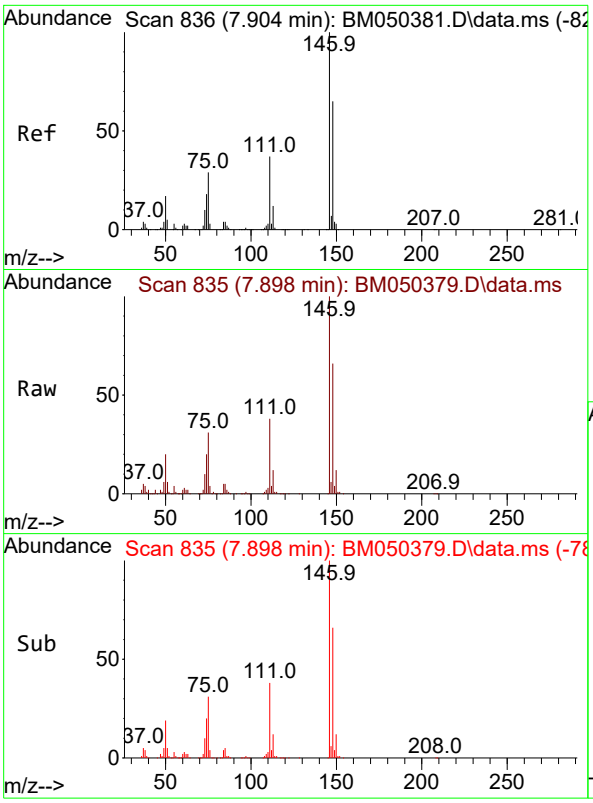


#12
1,3-Dichlorobenzene
Concen: 9.564 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:146 Resp: 257848

Ion	Ratio	Lower	Upper
146	100		
148	65.7	53.2	79.8
75	30.4	23.9	35.9

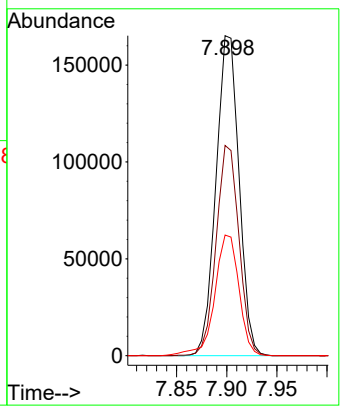




#13
1,4-Dichlorobenzene
Concen: 9.592 ng
RT: 7.898 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:146 Resp: 26406

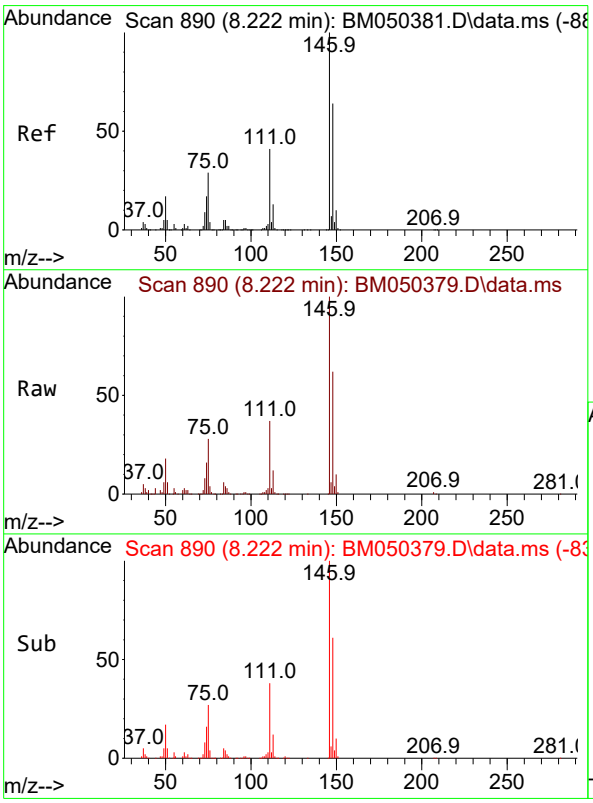
Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.9	77.9
111	37.7	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

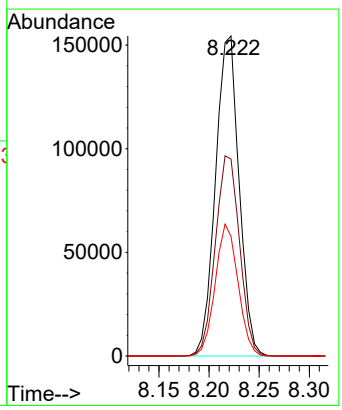
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

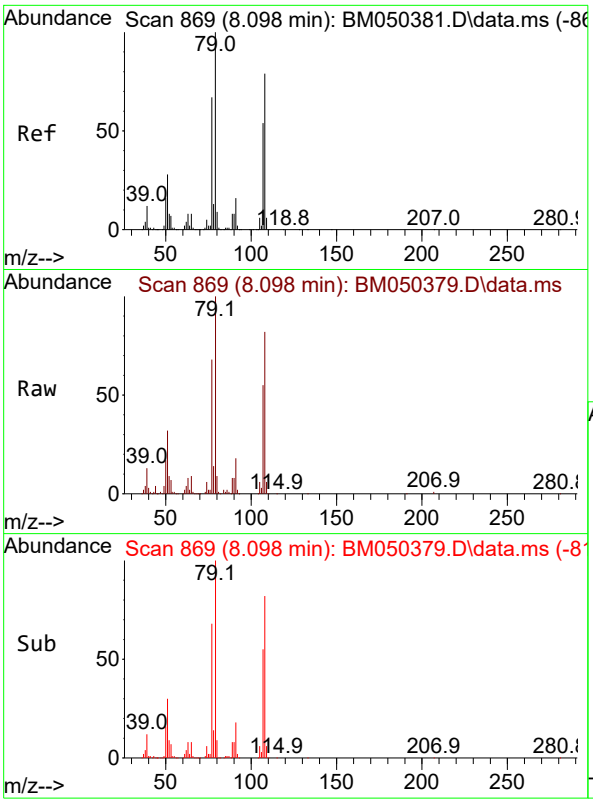


#14
1,2-Dichlorobenzene
Concen: 9.577 ng
RT: 8.222 min Scan# 890
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:146 Resp: 252415

Ion	Ratio	Lower	Upper
146	100		
148	61.5	51.5	77.3
111	37.4	32.6	49.0

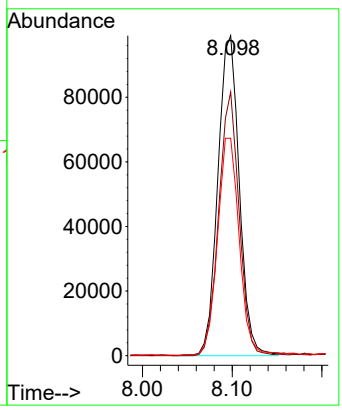




#15
Benzyl Alcohol
Concen: 8.790 ng
RT: 8.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 79 Resp: 16418

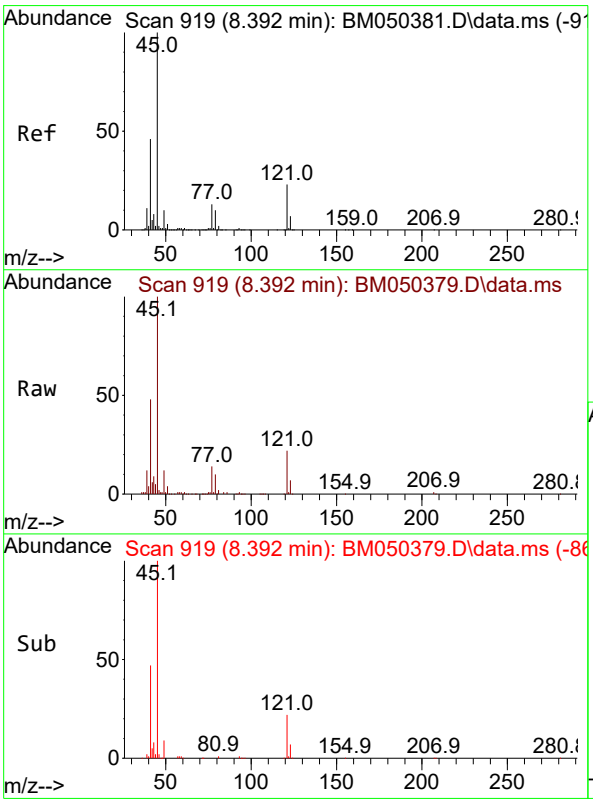
Ion	Ratio	Lower	Upper
79	100		
108	82.4	63.0	94.4
77	67.9	53.4	80.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

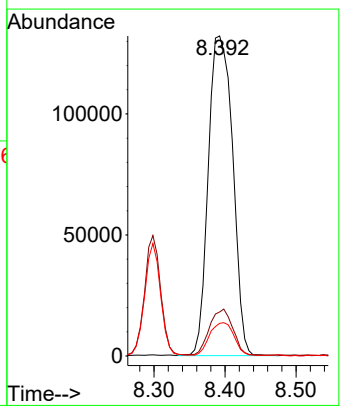
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

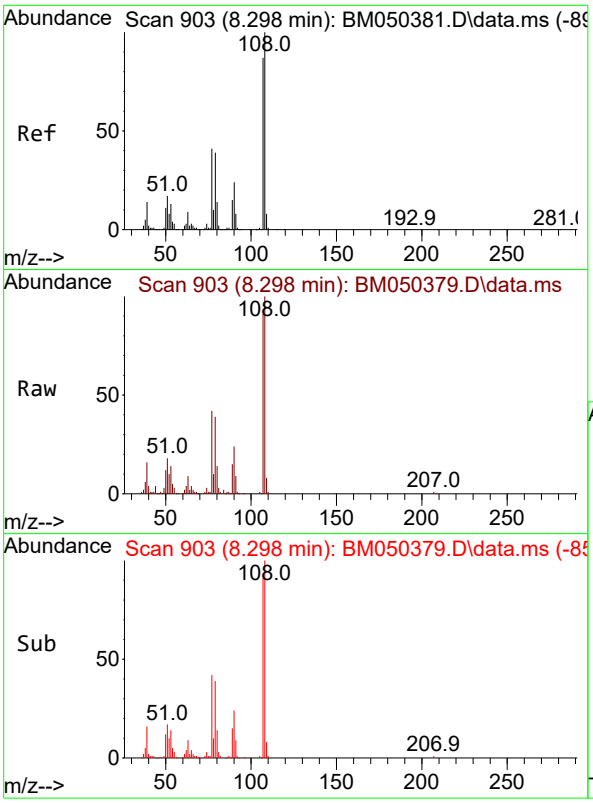


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.659 ng
RT: 8.392 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 45 Resp: 315036

Ion	Ratio	Lower	Upper
45	100		
77	13.7	0.0	33.5
79	10.2	0.0	30.3

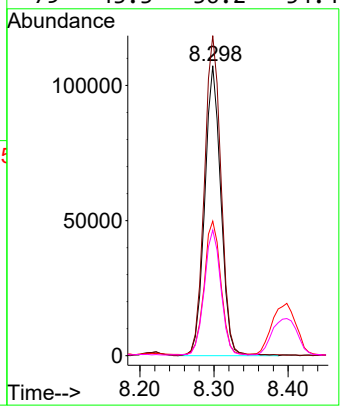




#17
2-Methylphenol
Concen: 9.067 ng
RT: 8.298 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:107 Resp: 16259

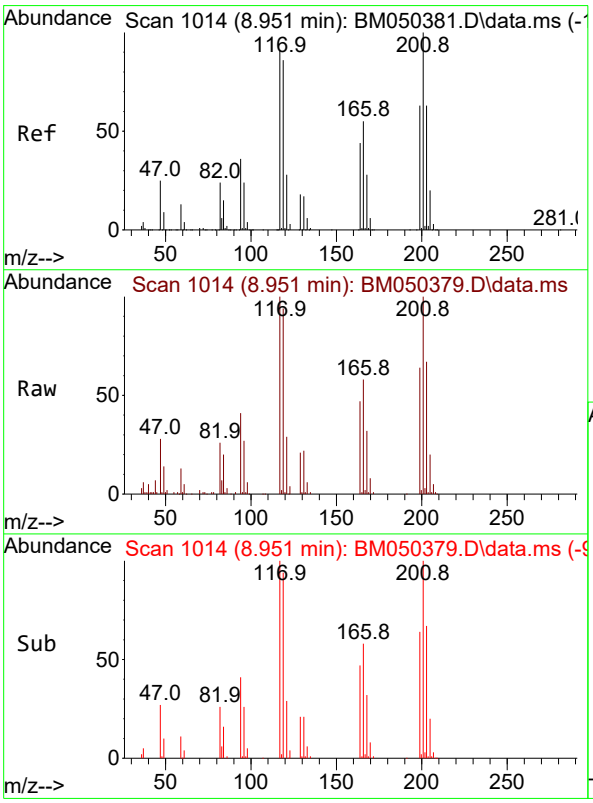
Ion	Ratio	Lower	Upper
107	100		
108	110.4	92.1	138.1
77	46.4	38.2	57.4
79	43.3	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

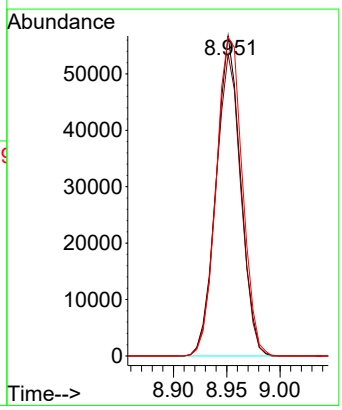
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

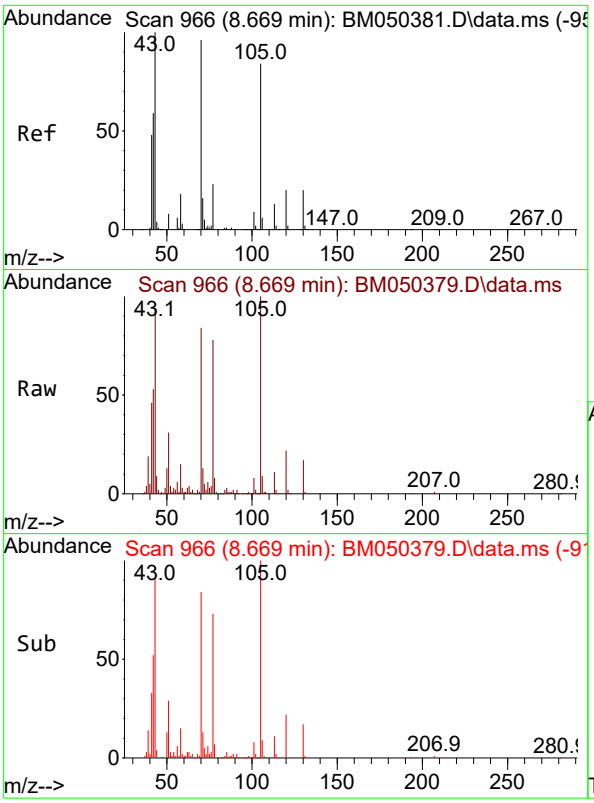


#18
Hexachloroethane
Concen: 9.370 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:117 Resp: 90719

Ion	Ratio	Lower	Upper
117	100		
119	94.3	75.6	113.4
201	99.7	87.9	131.9

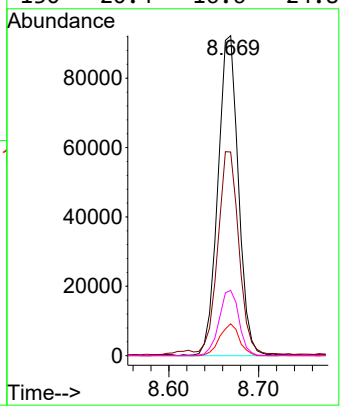




#19
n-Nitroso-di-n-propylamine
Concen: 9.106 ng
RT: 8.669 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 70 Resp: 14622

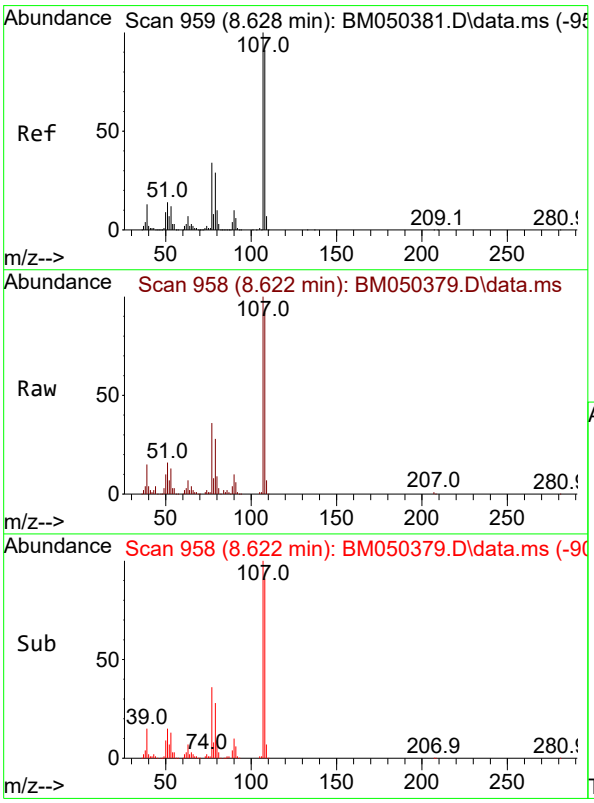
Ion	Ratio	Lower	Upper
70	100		
42	63.7	49.7	74.5
101	10.0	7.7	11.5
130	20.4	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

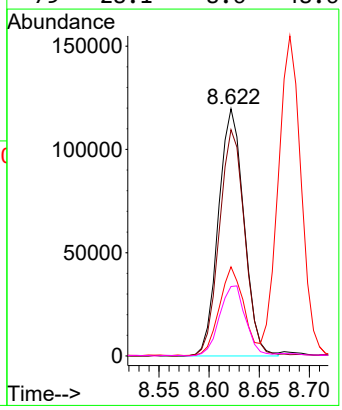
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

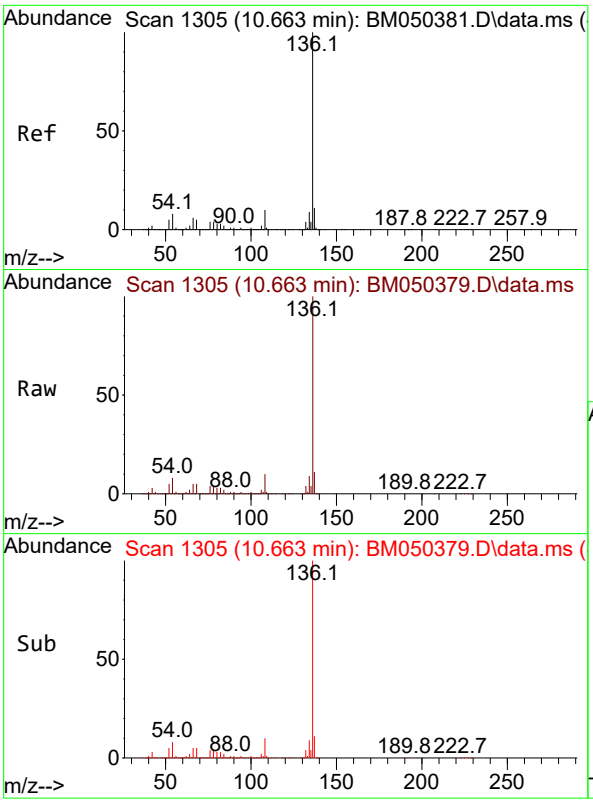


#20
3+4-Methylphenols
Concen: 8.798 ng
RT: 8.622 min Scan# 958
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:107 Resp: 211795

Ion	Ratio	Lower	Upper
107	100		
108	91.5	71.5	111.5
77	36.1	13.7	53.7
79	28.1	8.6	48.6

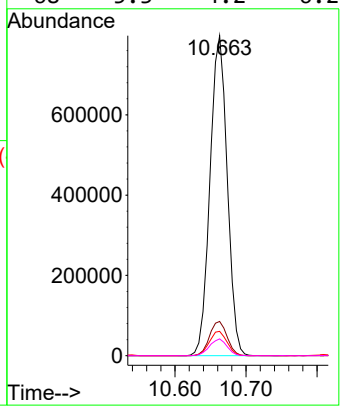




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:136 Resp: 134213

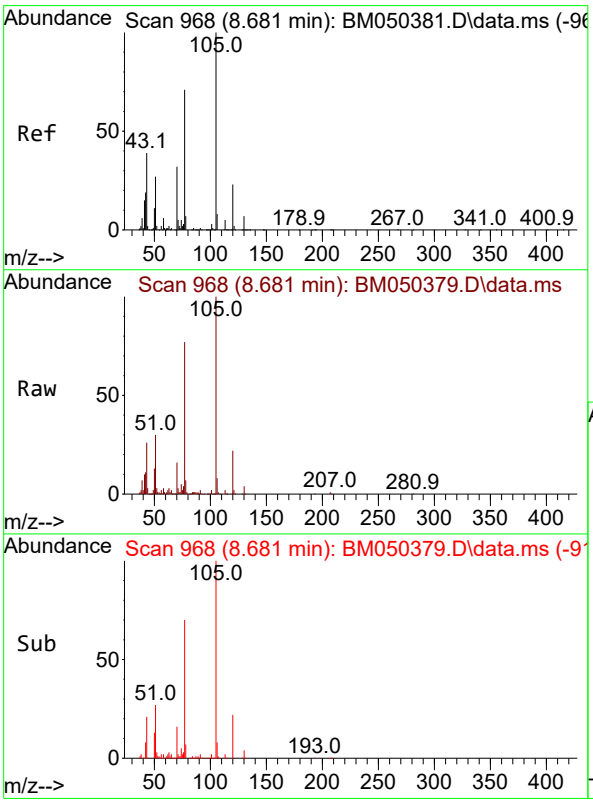
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	7.6	6.3	9.5
68	5.3	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

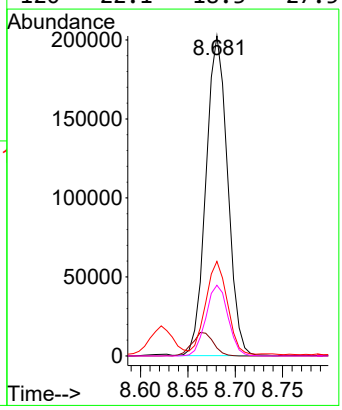
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

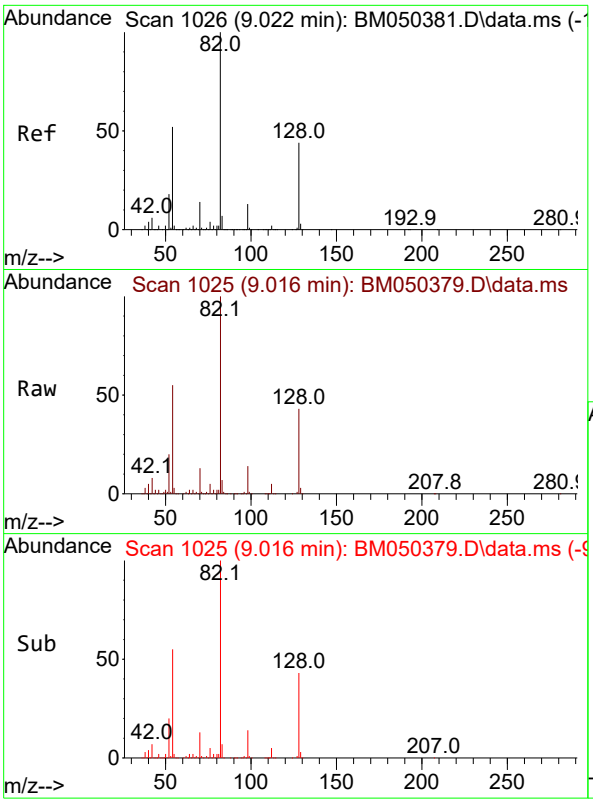


#22
Acetophenone
Concen: 9.576 ng
RT: 8.681 min Scan# 968
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:105 Resp: 321333

Ion	Ratio	Lower	Upper
105	100		
71	2.5	4.4	6.6#
51	29.6	23.0	34.6
120	22.1	18.3	27.5

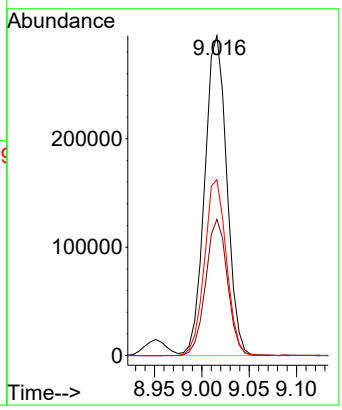




#23
Nitrobenzene-d5
Concen: 18.129 ng
RT: 9.016 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 82 Resp: 47692(

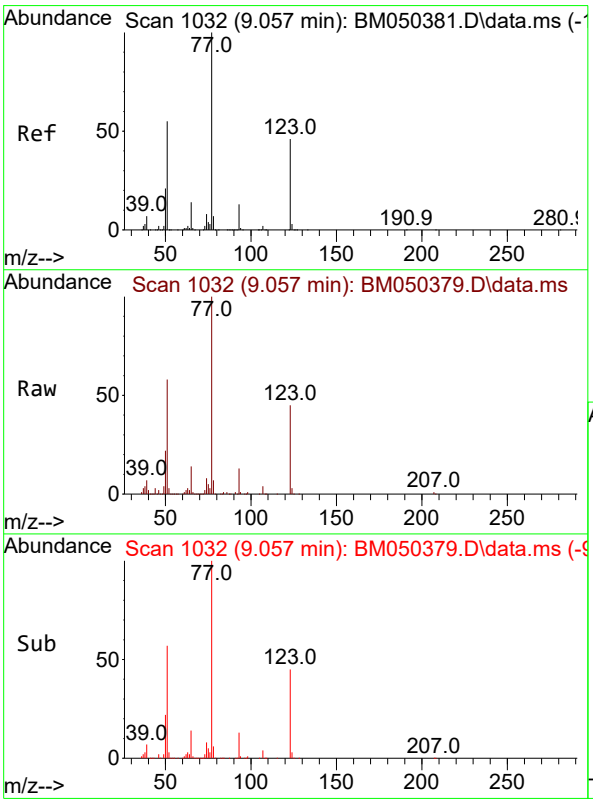
Ion	Ratio	Lower	Upper
82	100		
128	42.6	35.2	52.8
54	55.0	41.5	62.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

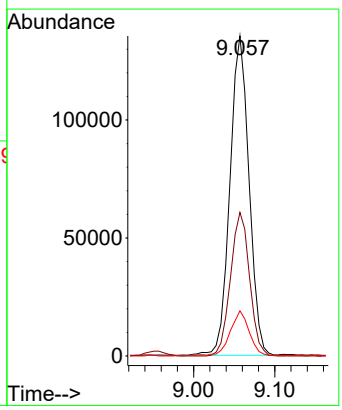
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

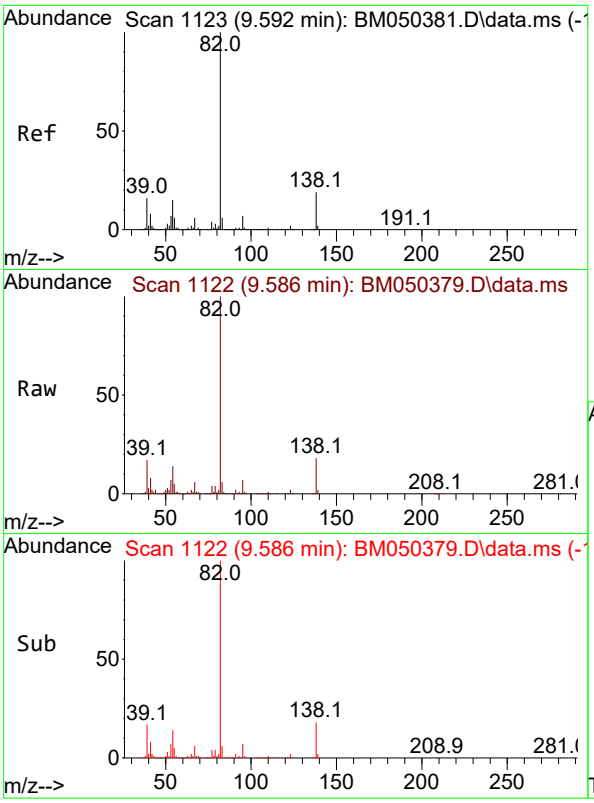


#24
Nitrobenzene
Concen: 9.408 ng
RT: 9.057 min Scan# 1032
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 77 Resp: 220849

Ion	Ratio	Lower	Upper
77	100		
123	44.8	37.0	55.6
65	14.1	11.0	16.4

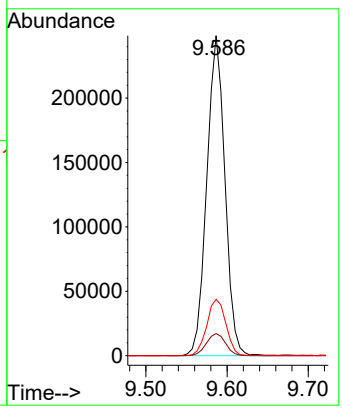




#25
Isophorone
Concen: 9.031 ng
RT: 9.586 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 82 Resp: 38549

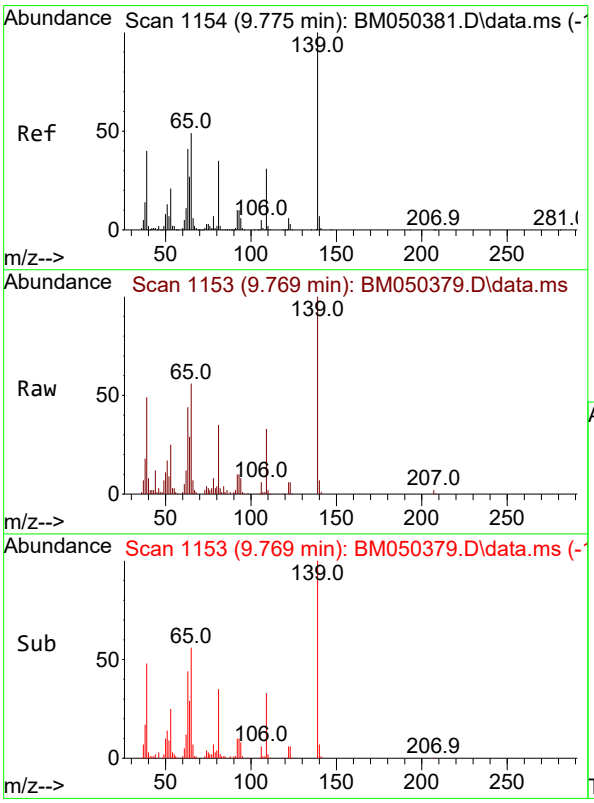
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.6	8.4
138	17.6	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

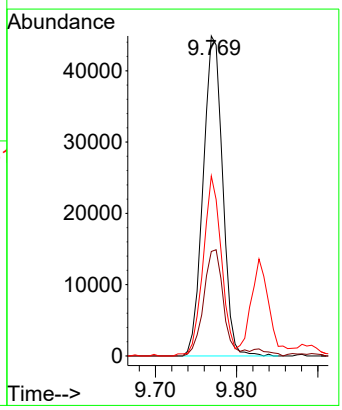
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

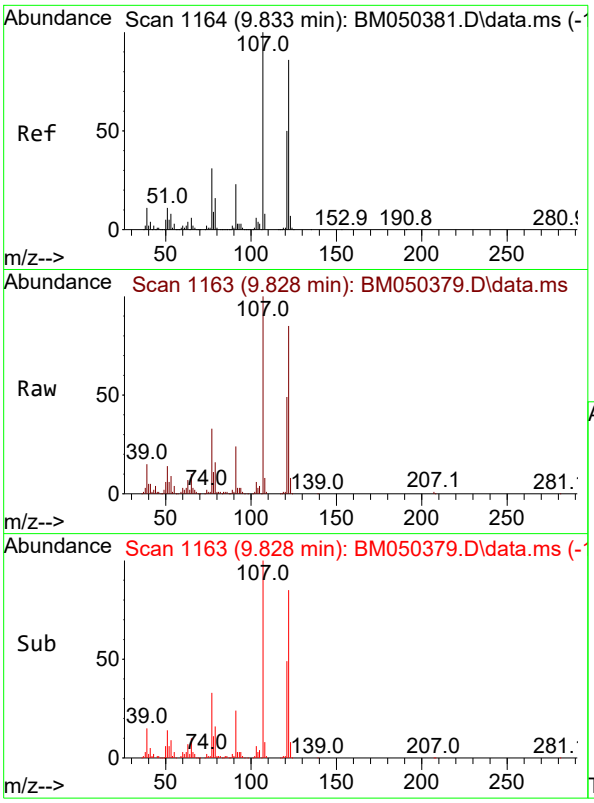


#26
2-Nitrophenol
Concen: 7.822 ng
RT: 9.769 min Scan# 1153
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:139 Resp: 74836

Ion	Ratio	Lower	Upper
139	100		
109	32.6	24.6	36.8
65	56.3	39.2	58.8

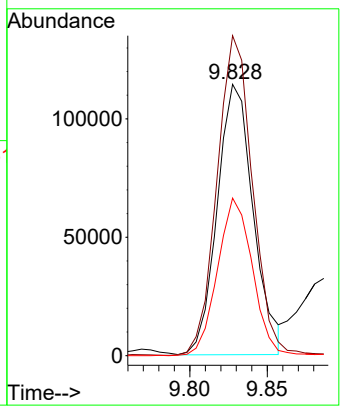




#27
2,4-Dimethylphenol
Concen: 9.073 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:122 Resp: 18471

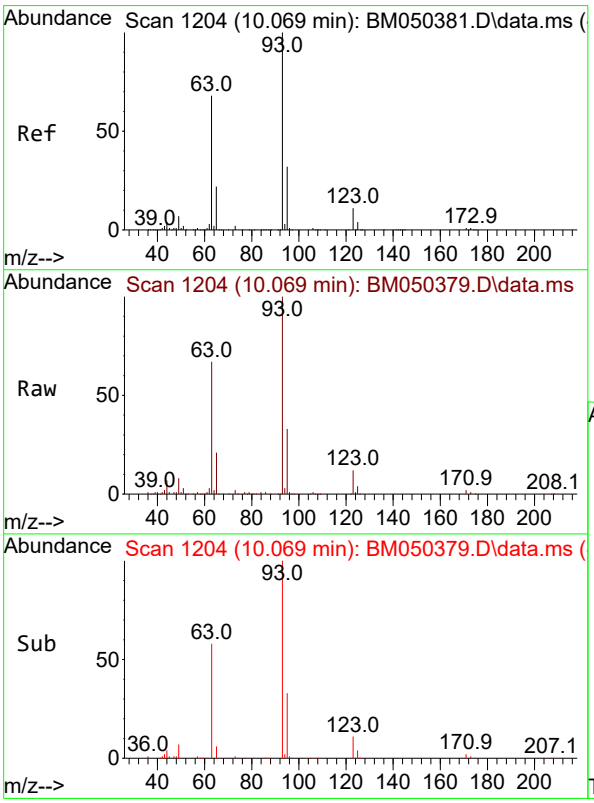
Ion	Ratio	Lower	Upper
122	100		
107	117.9	93.0	139.6
121	58.1	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

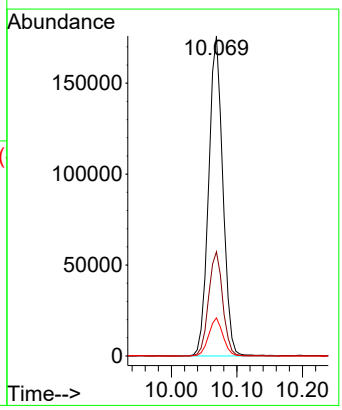
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

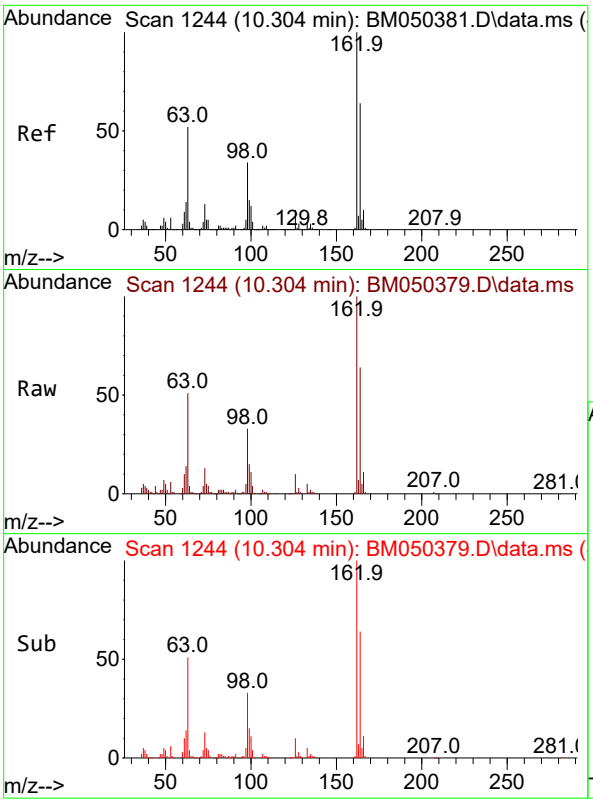


#28
bis(2-Chloroethoxy)methane
Concen: 9.361 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 93 Resp: 264798

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.6
123	11.9	9.1	13.7

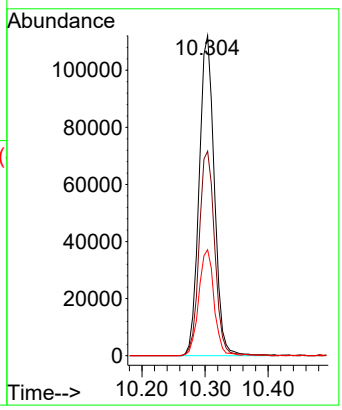




#29
2,4-Dichlorophenol
Concen: 8.961 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:162 Resp: 18742

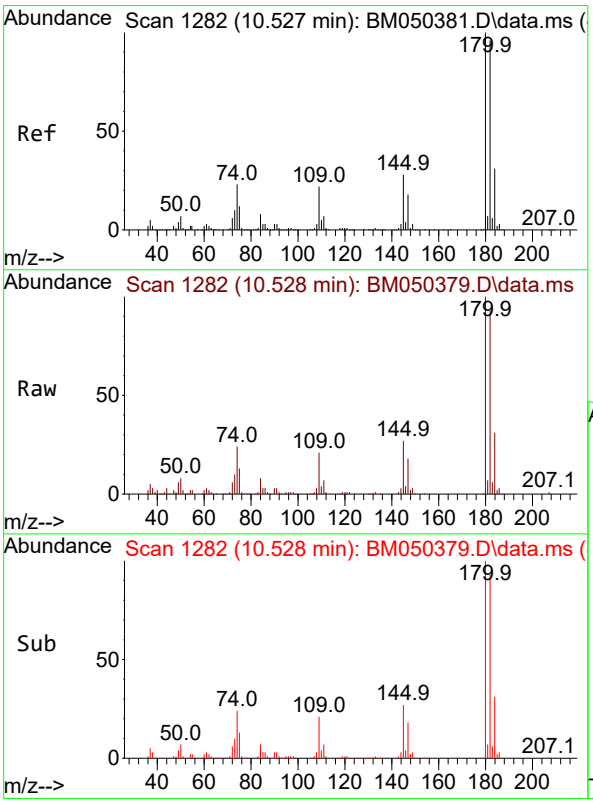
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.7	83.7
98	33.1	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

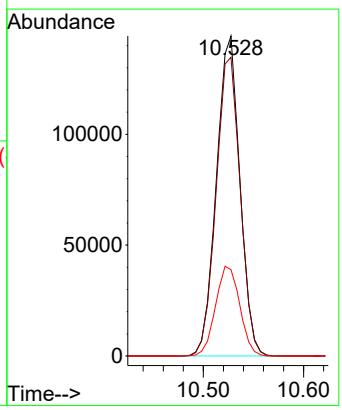
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

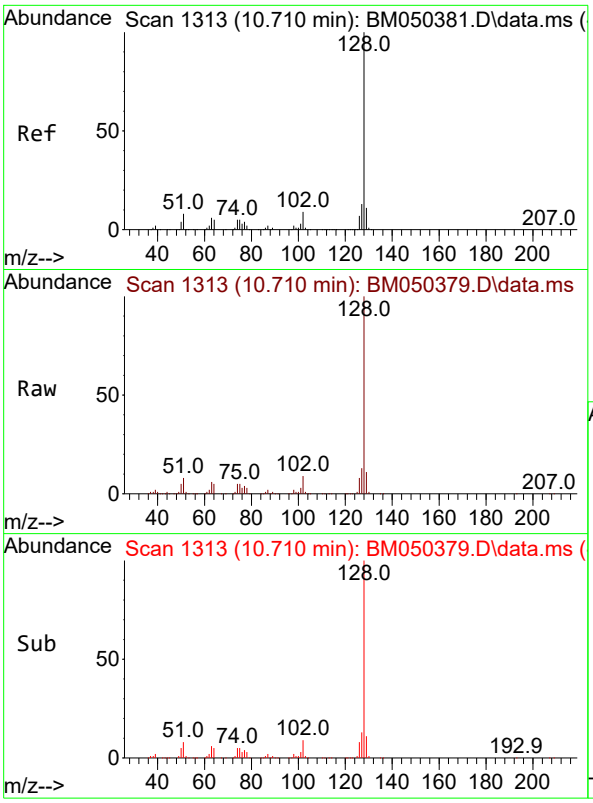


#30
1,2,4-Trichlorobenzene
Concen: 9.364 ng
RT: 10.528 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:180 Resp: 234305

Ion	Ratio	Lower	Upper
180	100		
182	93.4	76.8	115.2
145	27.0	22.6	33.8

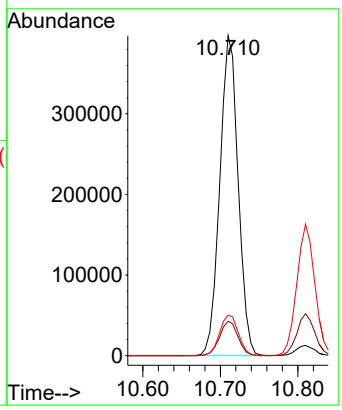




#31
Naphthalene
Concen: 9.593 ng
RT: 10.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:128 Resp: 65397

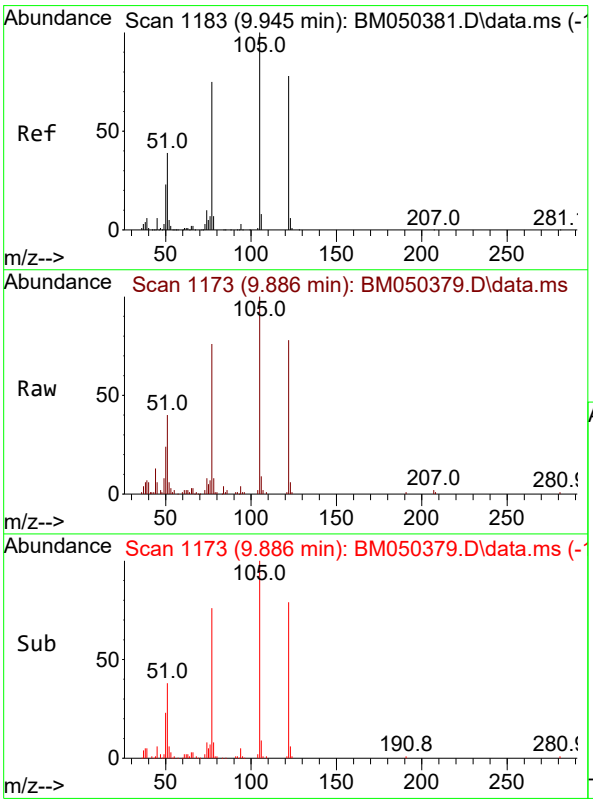
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.7	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

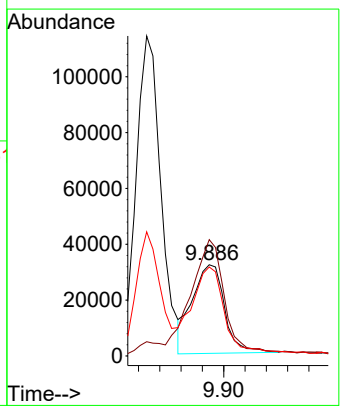
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

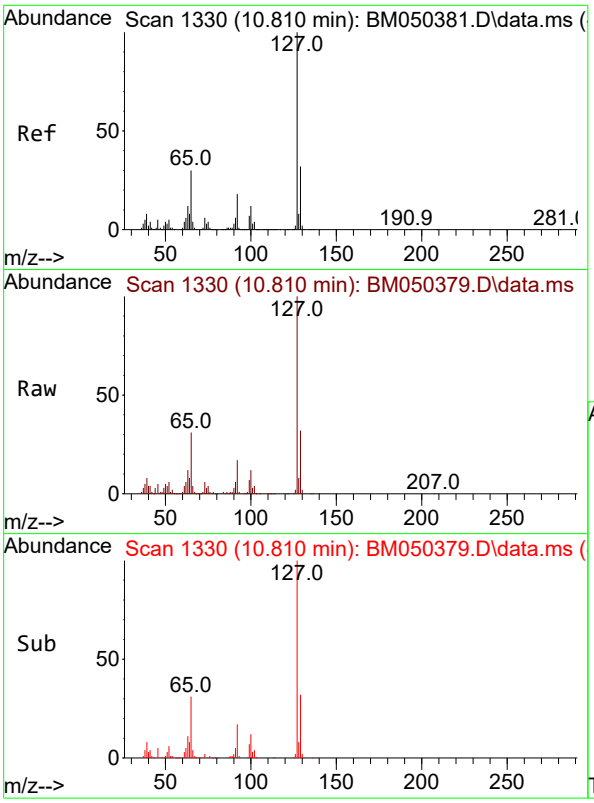


#32
Benzoic acid
Concen: 10.696 ng
RT: 9.886 min Scan# 1173
Delta R.T. -0.059 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:122 Resp: 67388

Ion	Ratio	Lower	Upper
122	100		
105	127.5	104.0	144.0
77	97.5	73.8	113.8

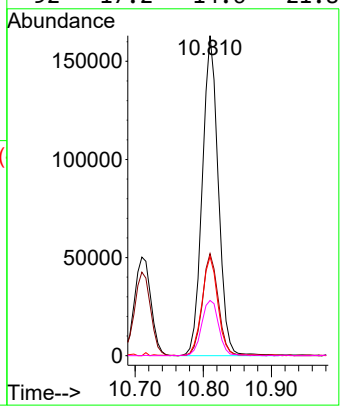




#33
4-Chloroaniline
Concen: 9.240 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:127 Resp: 26630

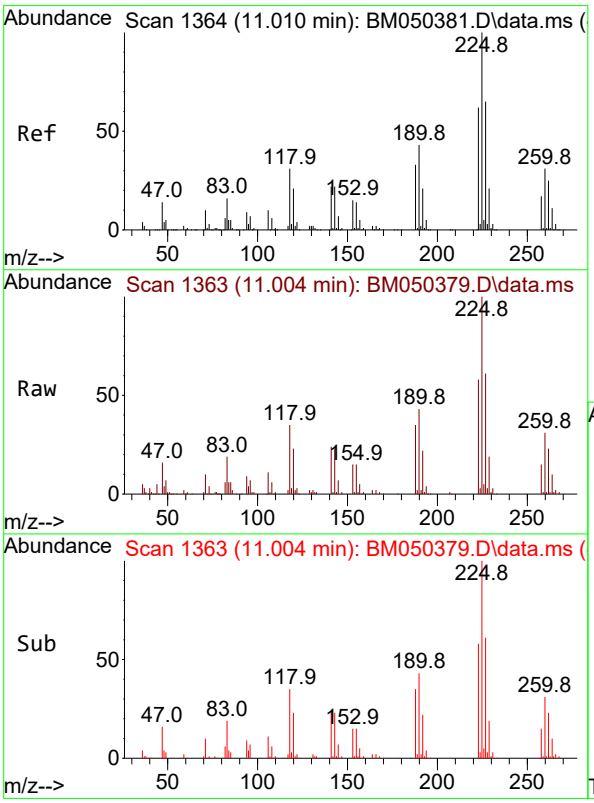
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.5	38.3
65	31.0	23.9	35.9
92	17.2	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

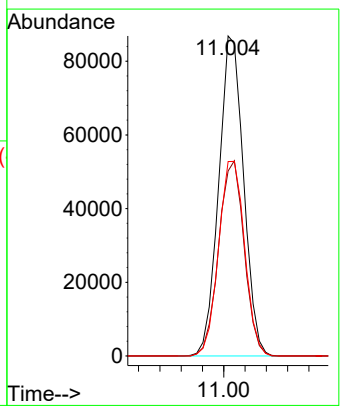
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

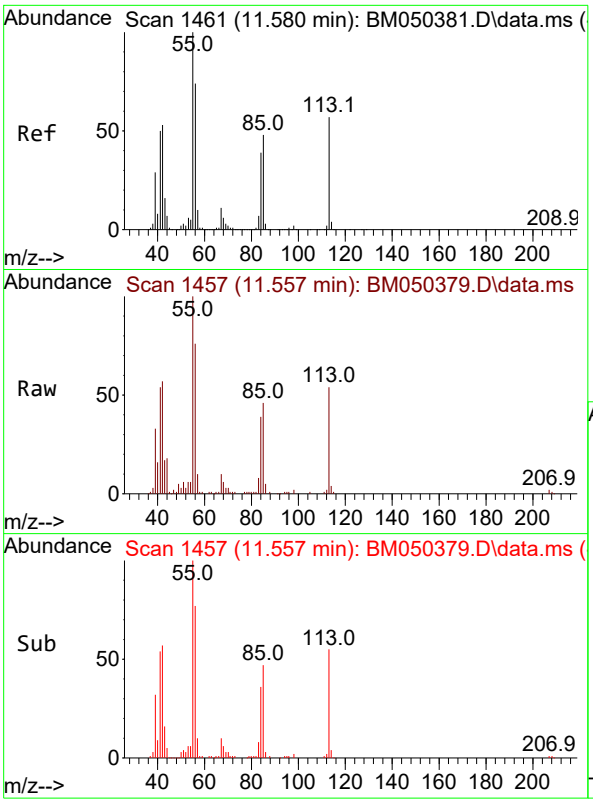


#34
Hexachlorobutadiene
Concen: 9.205 ng
RT: 11.004 min Scan# 1363
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:225 Resp: 140567

Ion	Ratio	Lower	Upper
225	100		
223	57.8	49.7	74.5
227	60.8	52.1	78.1





#35
Caprolactam
Concen: 7.474 ng
RT: 11.557 min Scan# 14
Delta R.T. -0.023 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

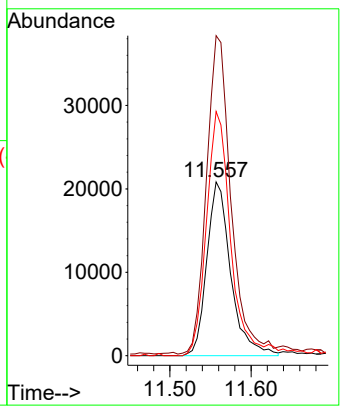
Tgt Ion:113 Resp: 4267

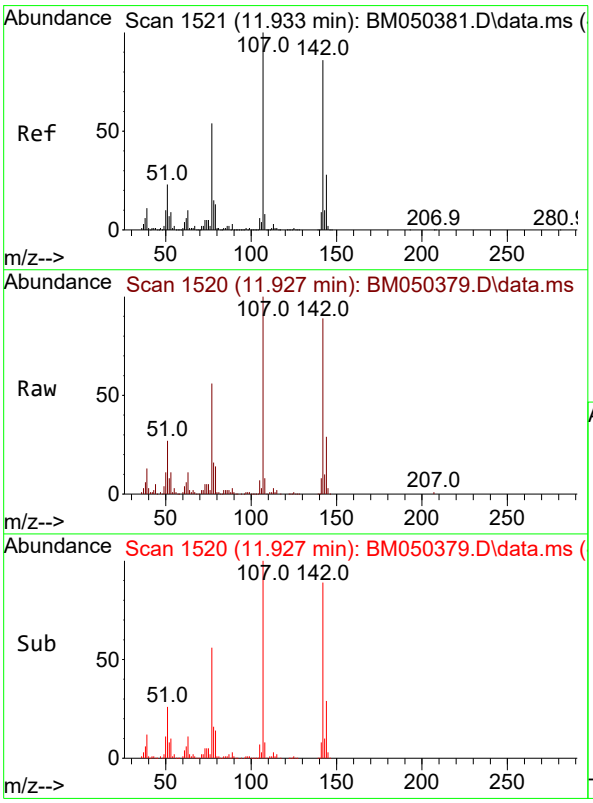
Ion	Ratio	Lower	Upper
113	100		
55	184.1	157.2	197.2
56	140.5	111.7	151.7

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

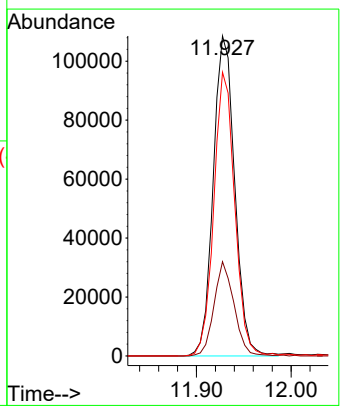


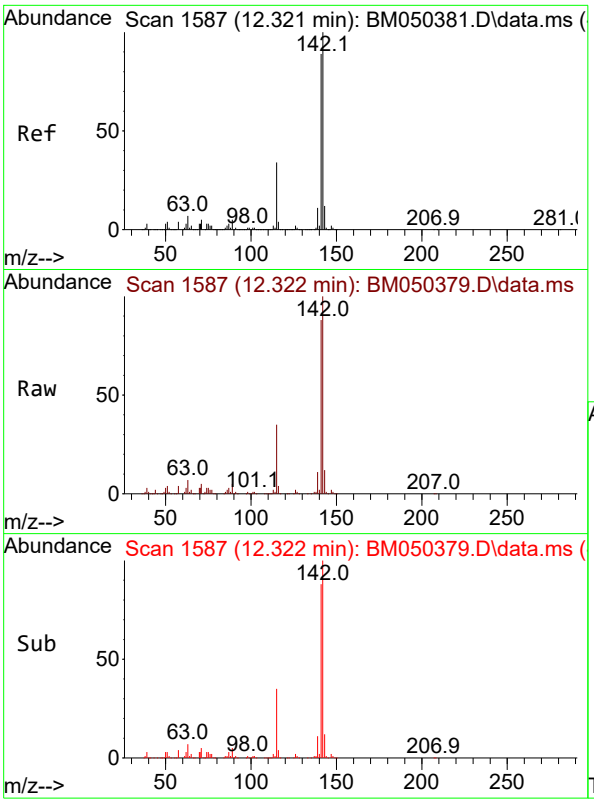


#36
4-Chloro-3-methylphenol
Concen: 8.781 ng
RT: 11.927 min Scan# 1520
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:107 Resp: 171511

Ion	Ratio	Lower	Upper
107	100		
144	29.5	22.2	33.4
142	88.7	68.7	103.1

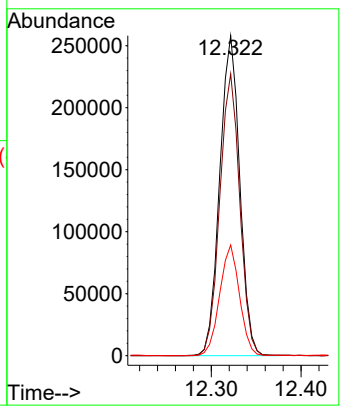




#37
2-Methylnaphthalene
Concen: 9.283 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:142 Resp: 39956

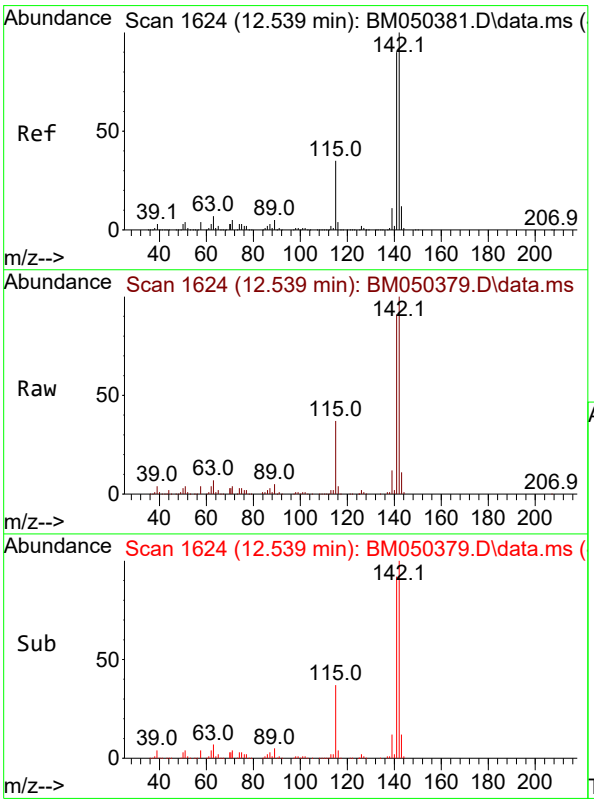
Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.8	106.2
115	34.6	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

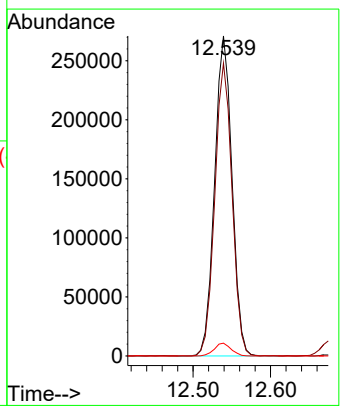
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

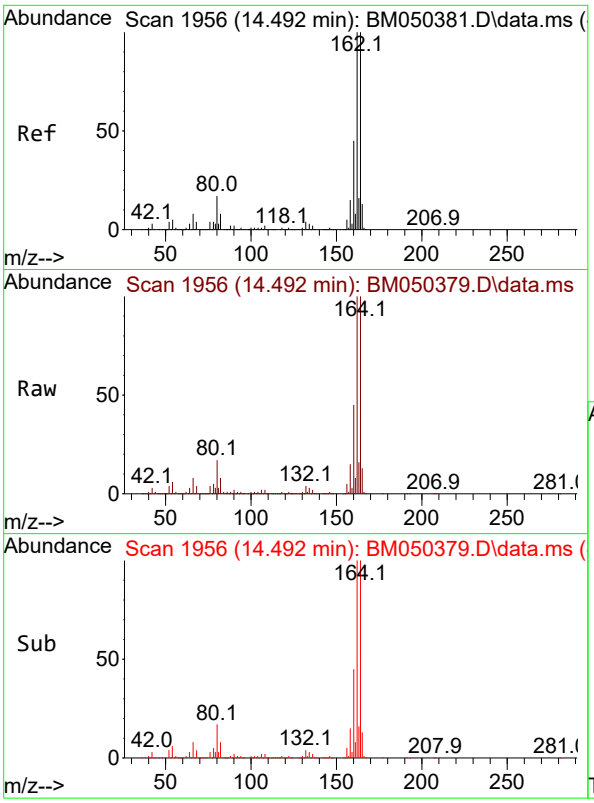


#38
1-Methylnaphthalene
Concen: 9.267 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:142 Resp: 422148

Ion	Ratio	Lower	Upper
142	100		
141	91.5	71.9	107.9
116	4.0	3.0	4.6

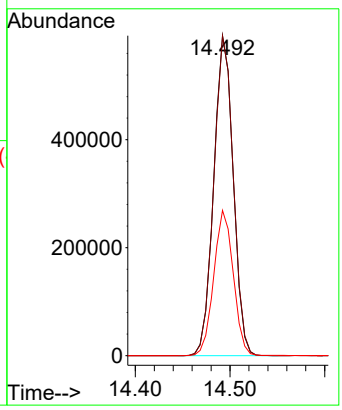




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:164 Resp: 84624

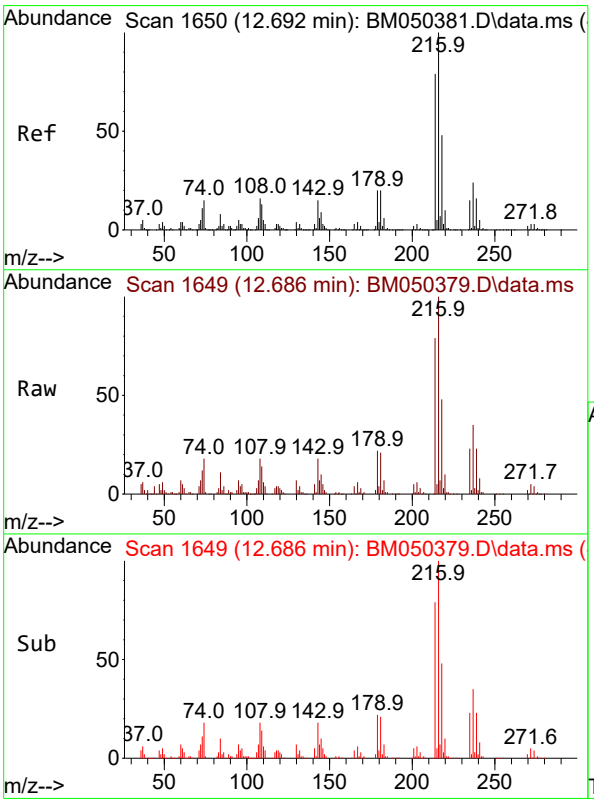
Ion	Ratio	Lower	Upper
164	100		
162	99.9	79.9	119.9
160	45.4	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

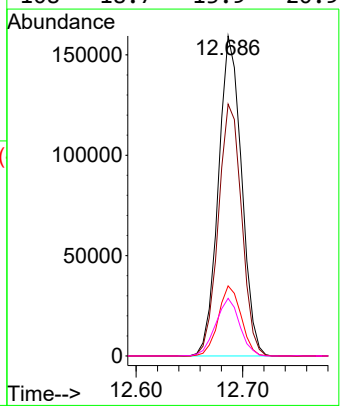
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

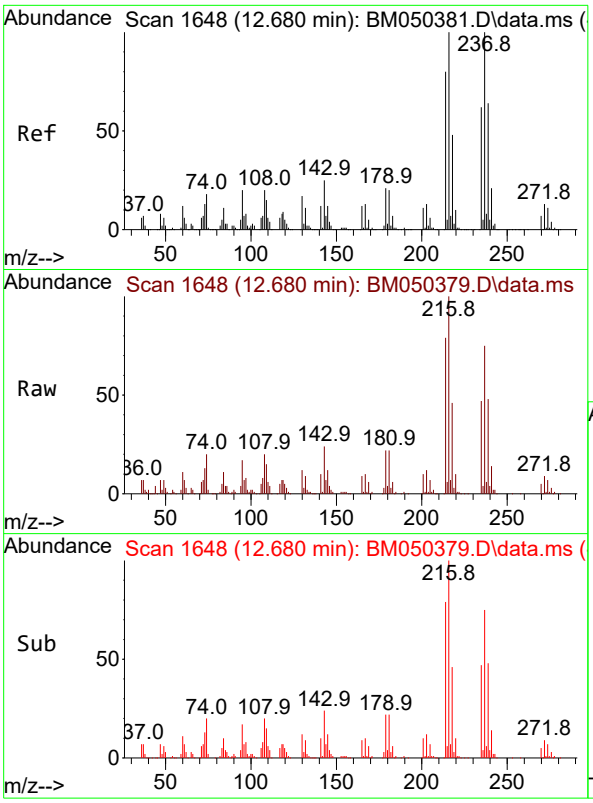


#40
1,2,4,5-Tetrachlorobenzene
Concen: 8.952 ng
RT: 12.686 min Scan# 1649
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:216 Resp: 240904

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.3	94.9
179	21.5	16.4	24.6
108	18.7	13.9	20.9

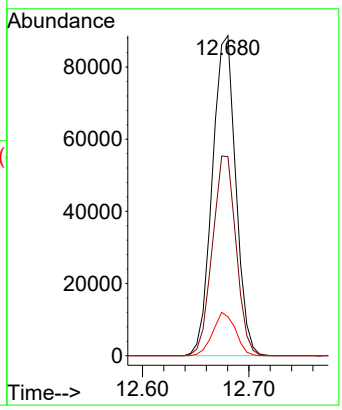




#41
Hexachlorocyclopentadiene
Concen: 7.881 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

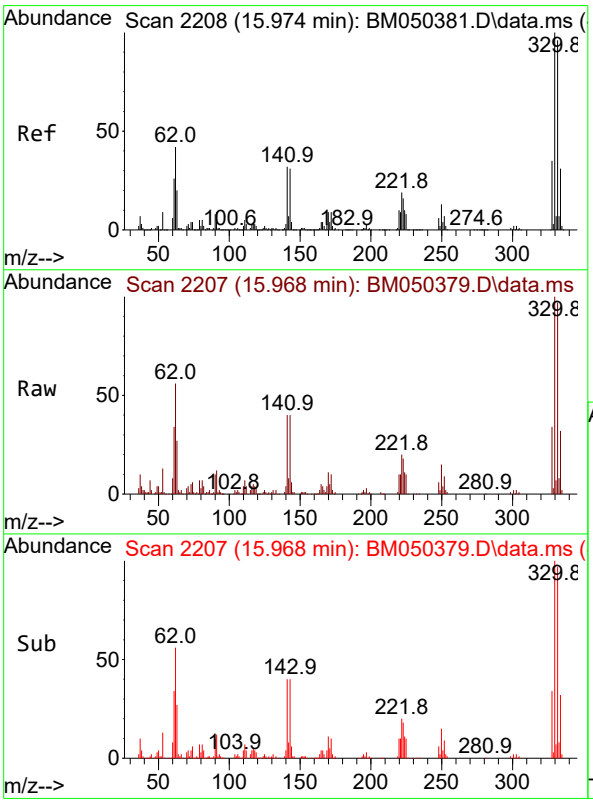
Tgt Ion:237 Resp: 13557

Ion	Ratio	Lower	Upper
237	100		
235	62.2	42.3	82.3
272	12.1	0.0	33.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

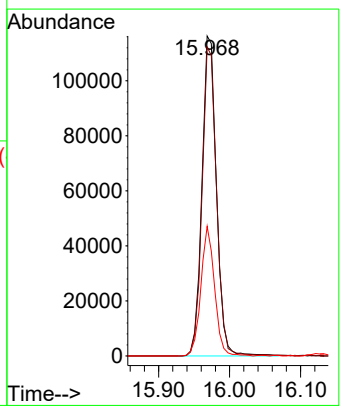
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

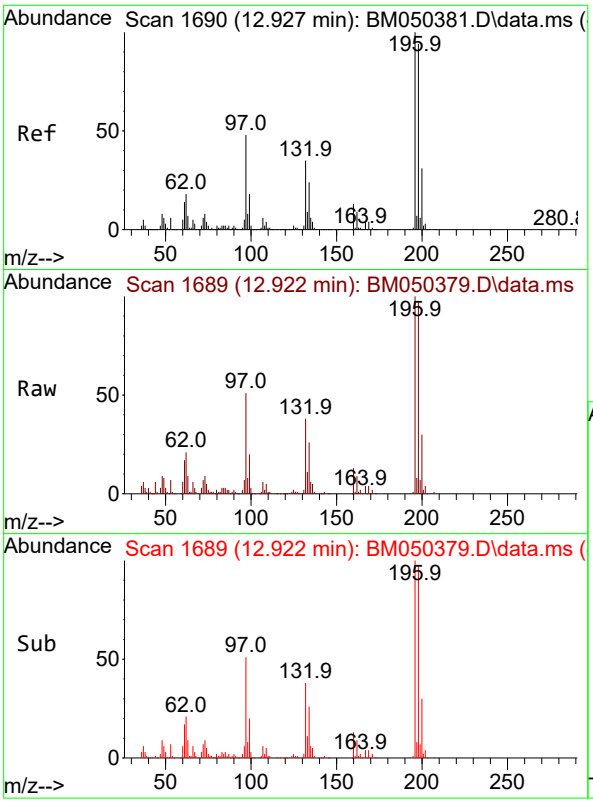


#42
2,4,6-Tribromophenol
Concen: 16.086 ng
RT: 15.968 min Scan# 2207
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:330 Resp: 165401

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	38.3	27.4	41.0

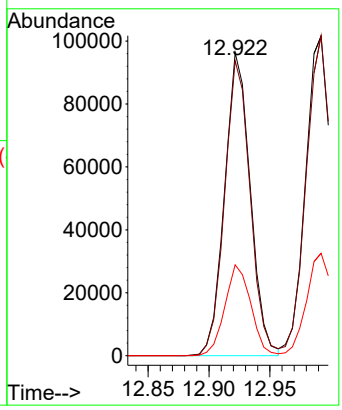




#43
2,4,6-Trichlorophenol
Concen: 8.560 ng
RT: 12.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

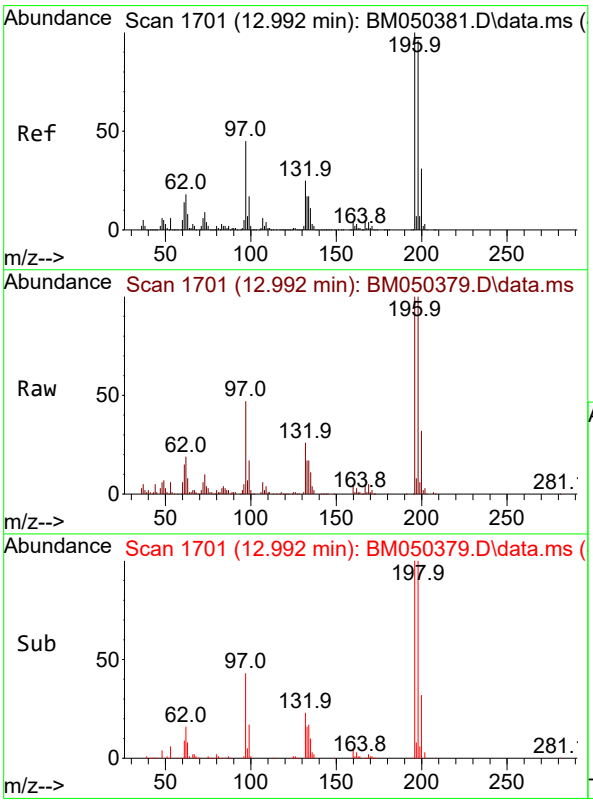
Tgt Ion:196 Resp: 14179

Ion	Ratio	Lower	Upper
196	100		
198	97.3	75.1	112.7
200	30.0	24.6	37.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

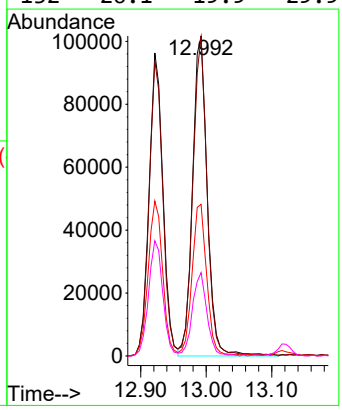
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

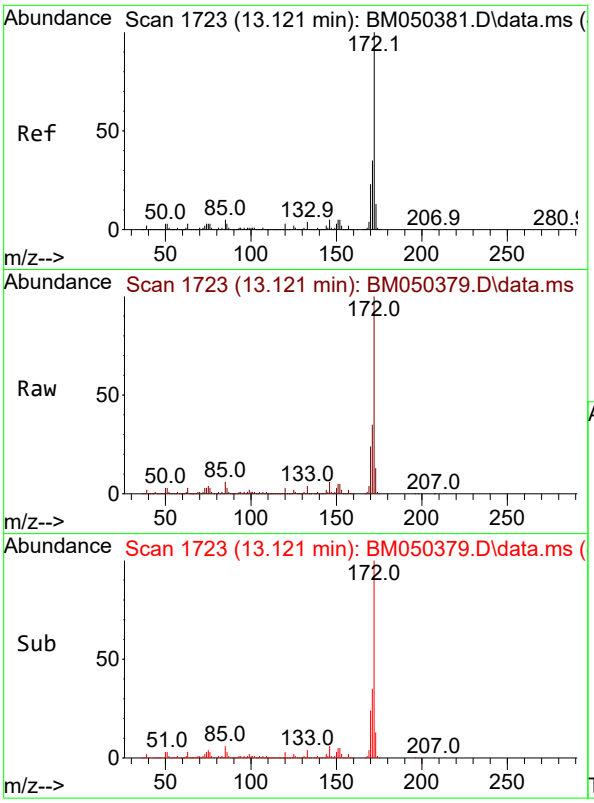


#44
2,4,5-Trichlorophenol
Concen: 8.792 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:196 Resp: 159049

Ion	Ratio	Lower	Upper
196	100		
198	100.1	77.2	115.8
97	47.5	36.2	54.4
132	26.1	19.9	29.9

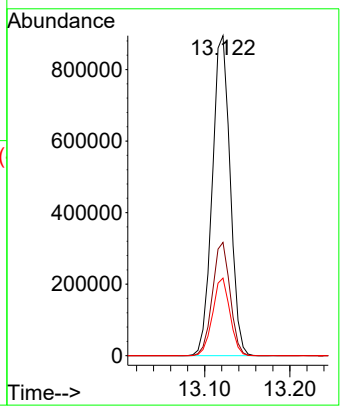




#45
2-Fluorobiphenyl
Concen: 18.996 ng
RT: 13.121 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:172 Resp: 130171

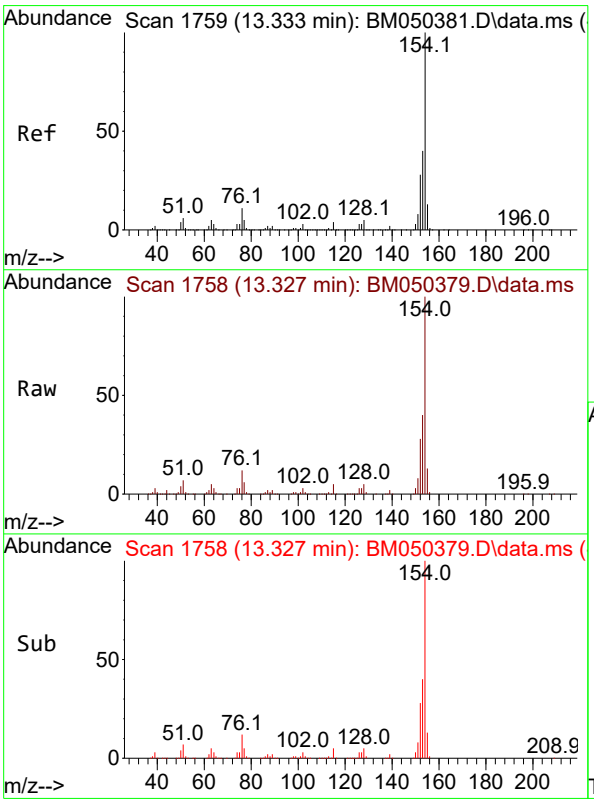
Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.7	41.5
170	24.3	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

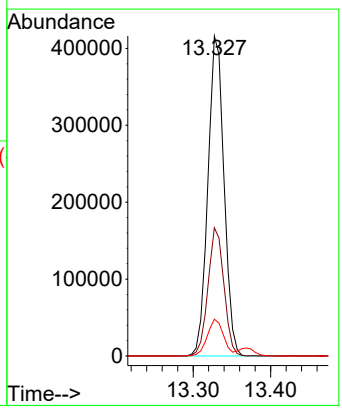
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

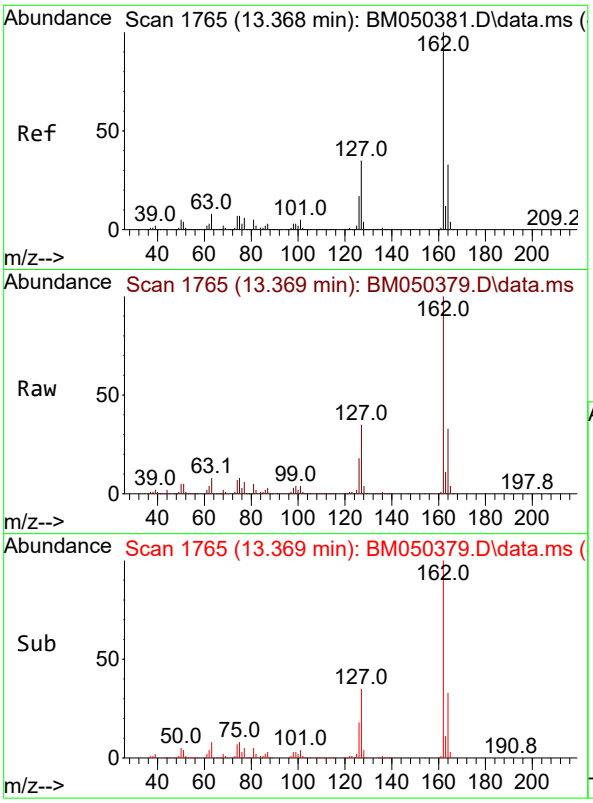


#46
1,1'-Biphenyl
Concen: 9.562 ng
RT: 13.327 min Scan# 1758
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:154 Resp: 600373

Ion	Ratio	Lower	Upper
154	100		
153	40.0	19.7	59.7
76	11.5	0.0	30.9

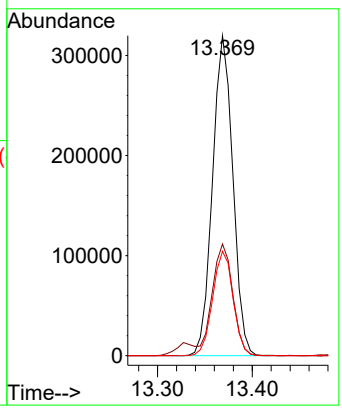




#47
2-Chloronaphthalene
Concen: 9.519 ng
RT: 13.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:162 Resp: 47653

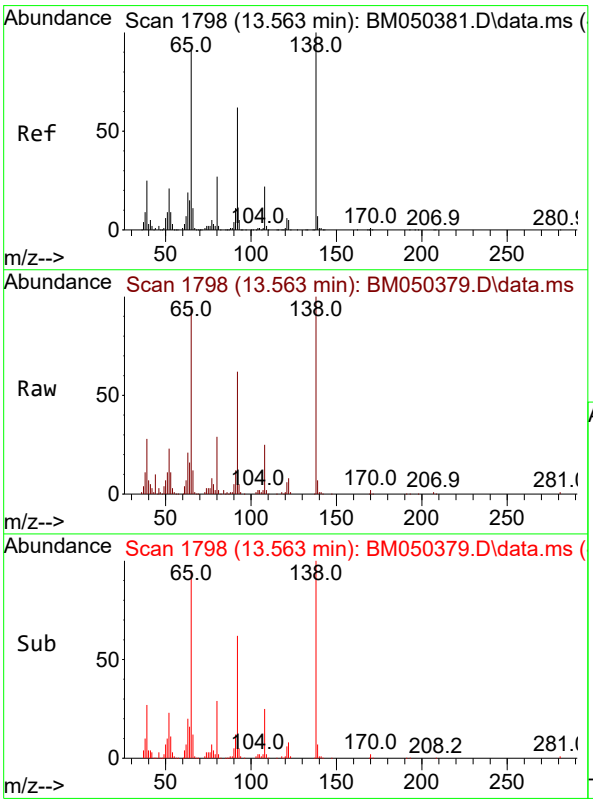
Ion	Ratio	Lower	Upper
162	100		
127	34.9	28.3	42.5
164	32.6	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

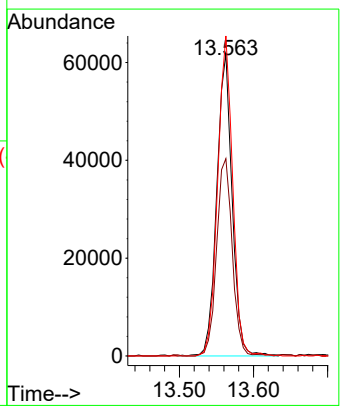
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

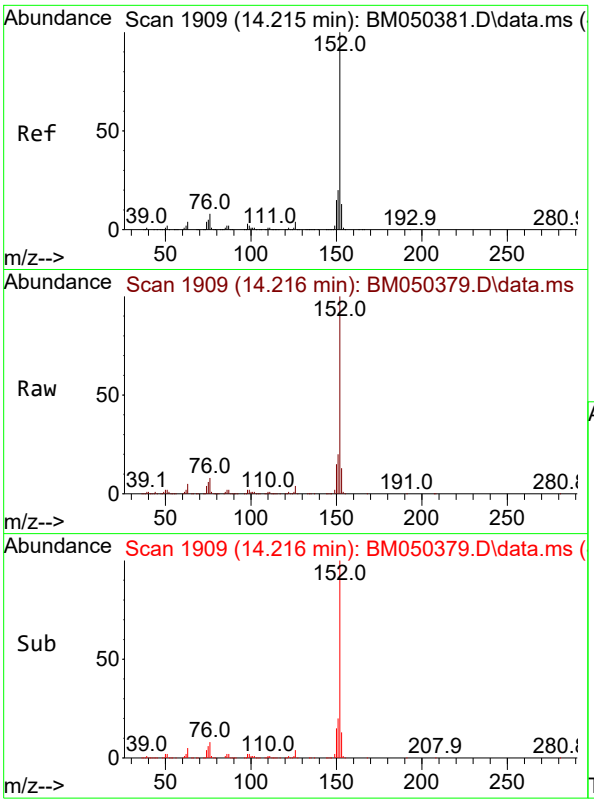


#48
2-Nitroaniline
Concen: 7.982 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 65 Resp: 89190

Ion	Ratio	Lower	Upper
65	100		
92	65.2	54.3	81.5
138	105.8	87.8	131.6

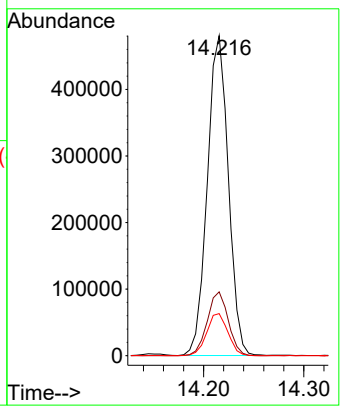




#49
Acenaphthylene
Concen: 9.273 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:152 Resp: 70153

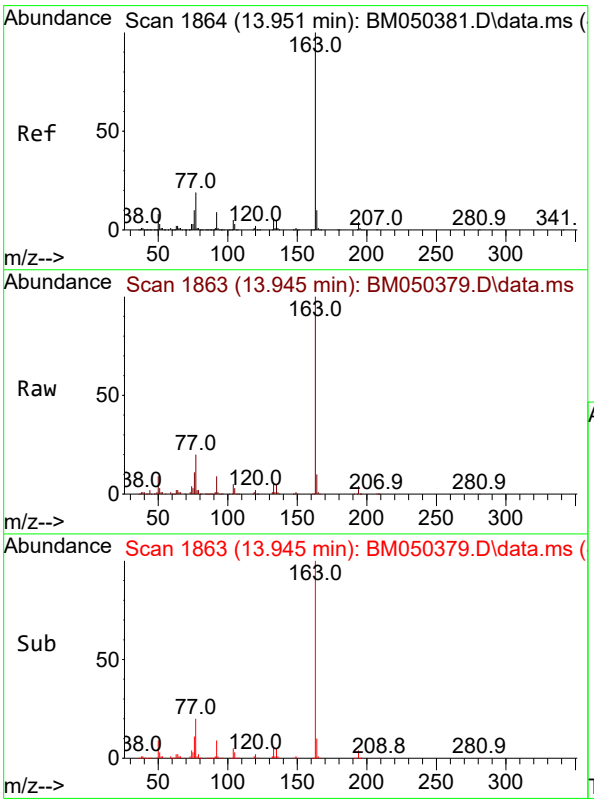
Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.3	24.5
153	13.2	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

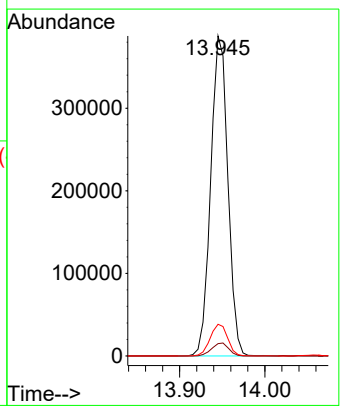
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

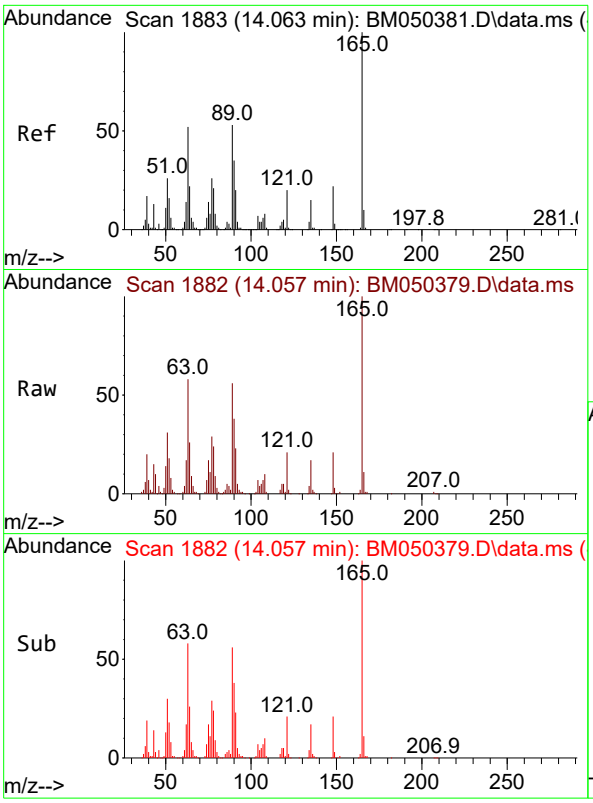


#50
Dimethylphthalate
Concen: 9.331 ng
RT: 13.945 min Scan# 1863
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:163 Resp: 543665

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.4	5.2
164	9.9	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 8.468 ng
RT: 14.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

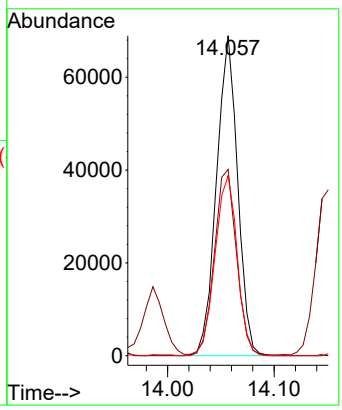
Tgt Ion:165 Resp: 9472

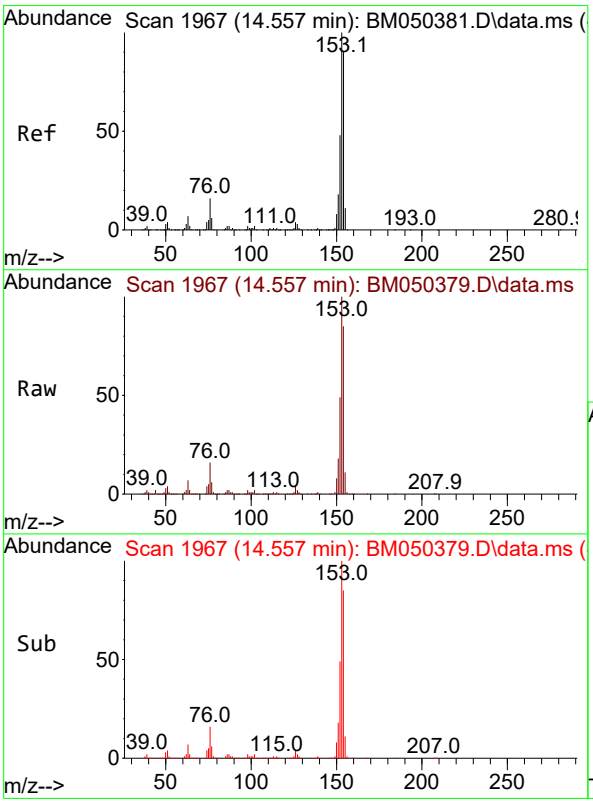
Ion	Ratio	Lower	Upper
165	100		
63	58.2	42.4	63.6
89	56.2	42.2	63.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

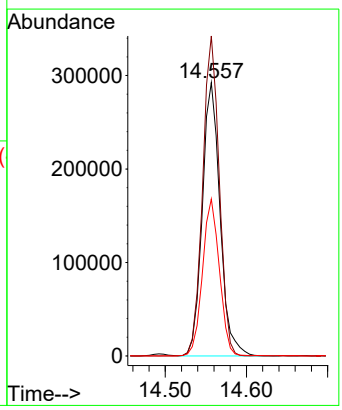


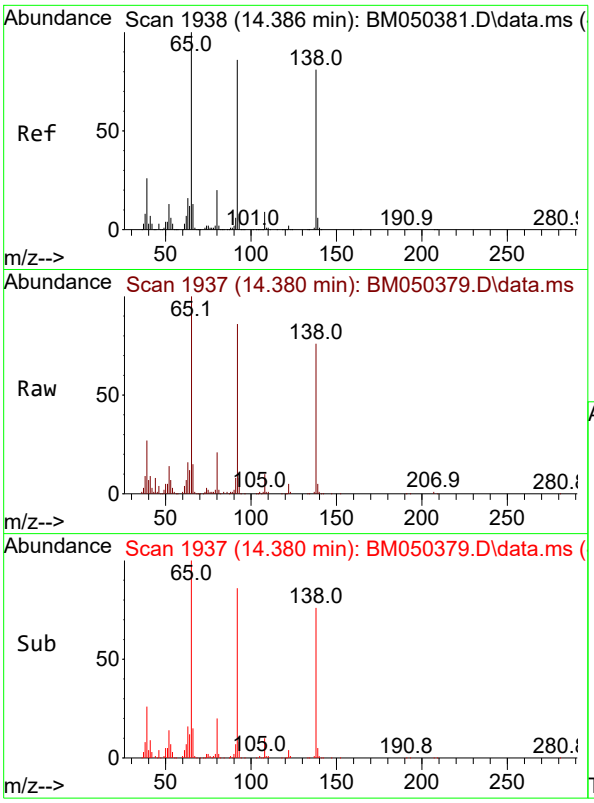


#52
Acenaphthene
Concen: 9.236 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:154 Resp: 444228

Ion	Ratio	Lower	Upper
154	100		
153	117.1	89.2	133.8
152	57.5	42.6	64.0





#53
3-Nitroaniline
Concen: 8.223 ng
RT: 14.380 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

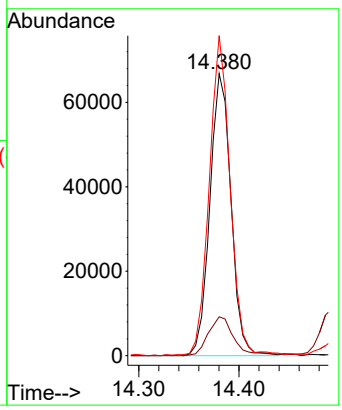
Tgt Ion:138 Resp: 9782

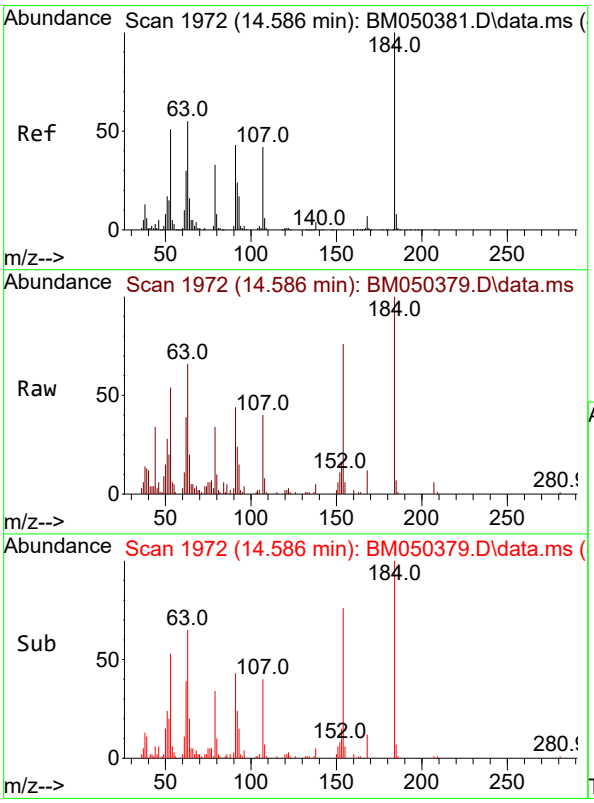
Ion	Ratio	Lower	Upper
138	100		
108	13.8	8.8	13.2
92	113.5	85.0	127.6

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

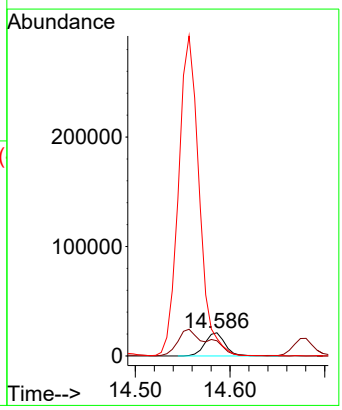


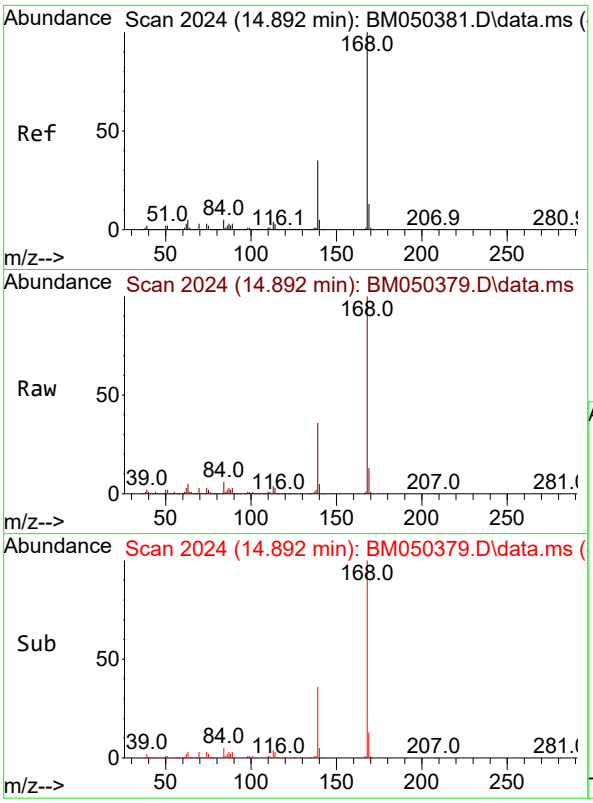


#54
2,4-Dinitrophenol
Concen: 11.045 ng
RT: 14.586 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:184 Resp: 31123

Ion	Ratio	Lower	Upper
184	100		
63	65.7	53.4	80.0
154	76.0	61.6	92.4

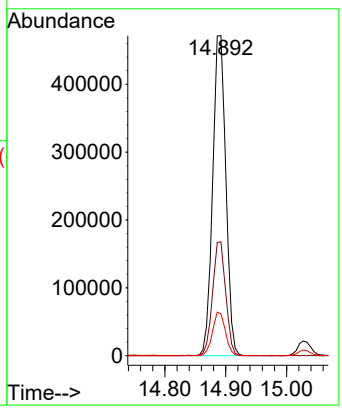




#55
Dibenzofuran
Concen: 9.555 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:168 Resp: 70815

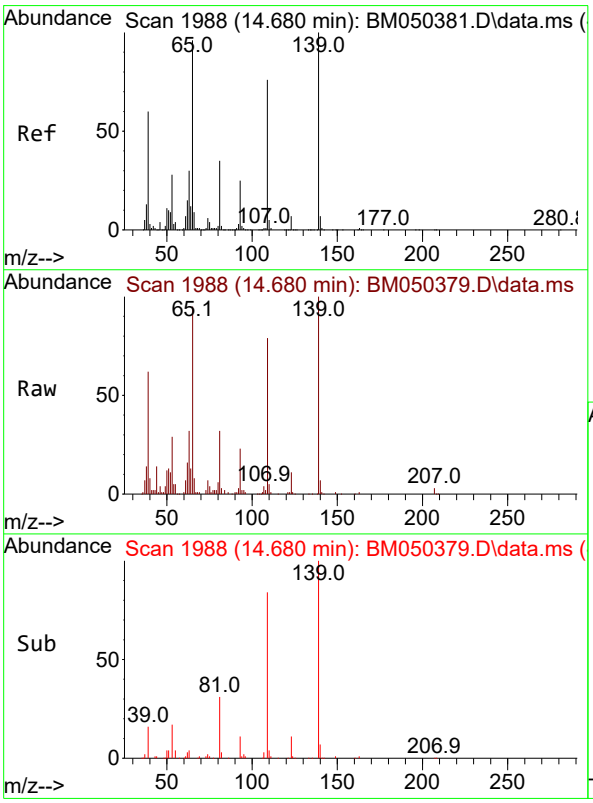
Ion	Ratio	Lower	Upper
168	100		
139	35.6	27.7	41.5
169	13.0	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

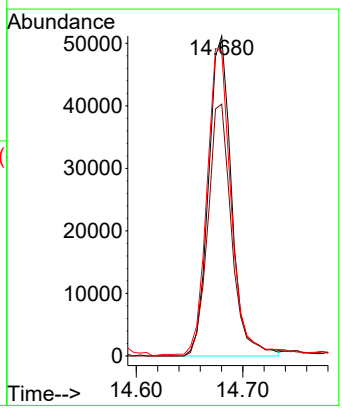
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

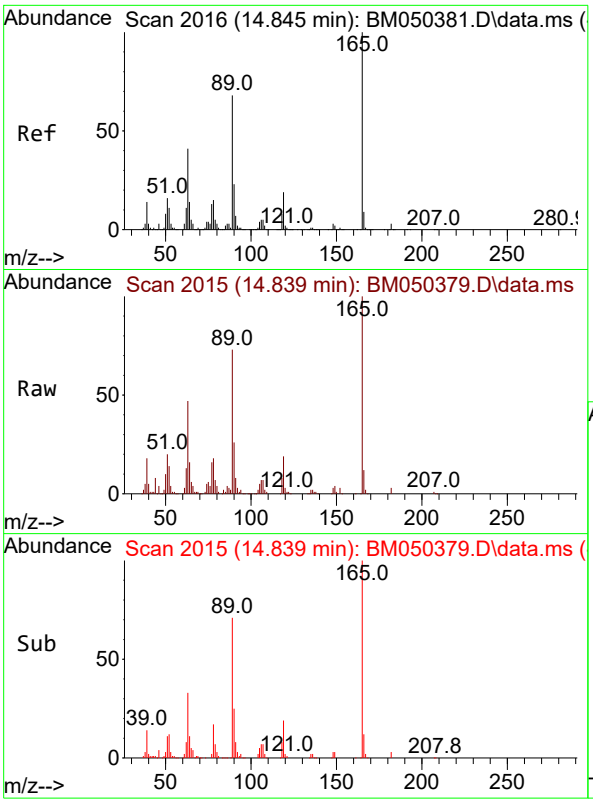


#56
4-Nitrophenol
Concen: 7.515 ng
RT: 14.680 min Scan# 1988
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:139 Resp: 76886

Ion	Ratio	Lower	Upper
139	100		
109	78.7	56.5	96.5
65	95.3	76.4	116.4

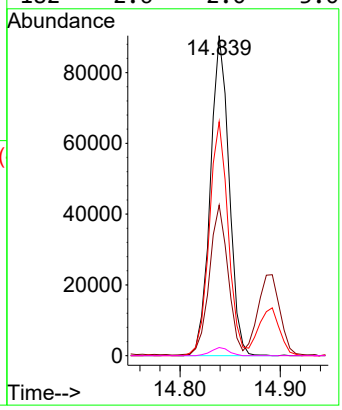




#57
2,4-Dinitrotoluene
Concen: 9.325 ng
RT: 14.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:165 Resp: 11719

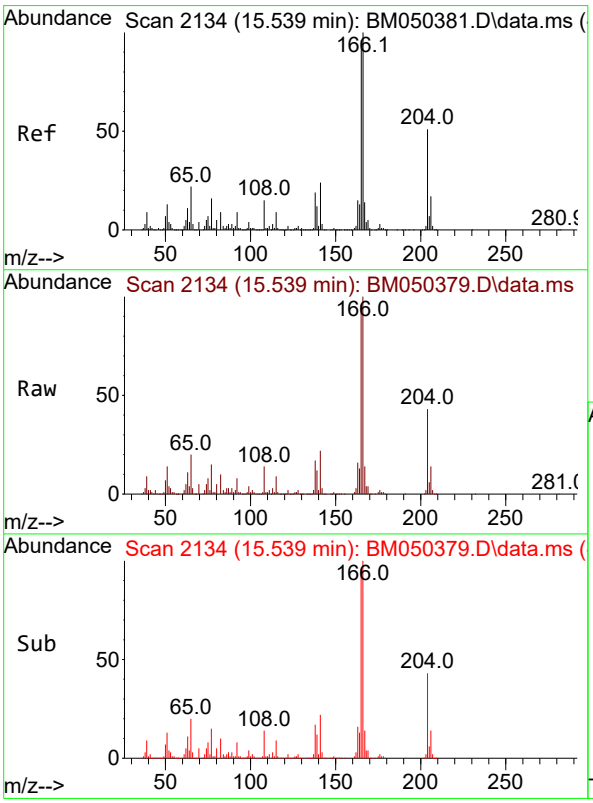
Ion	Ratio	Lower	Upper
165	100		
63	47.1	32.5	48.7
89	73.1	54.0	81.0
182	2.6	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

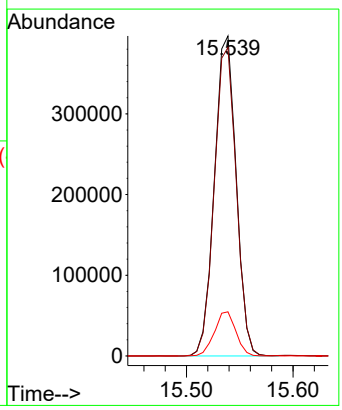
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

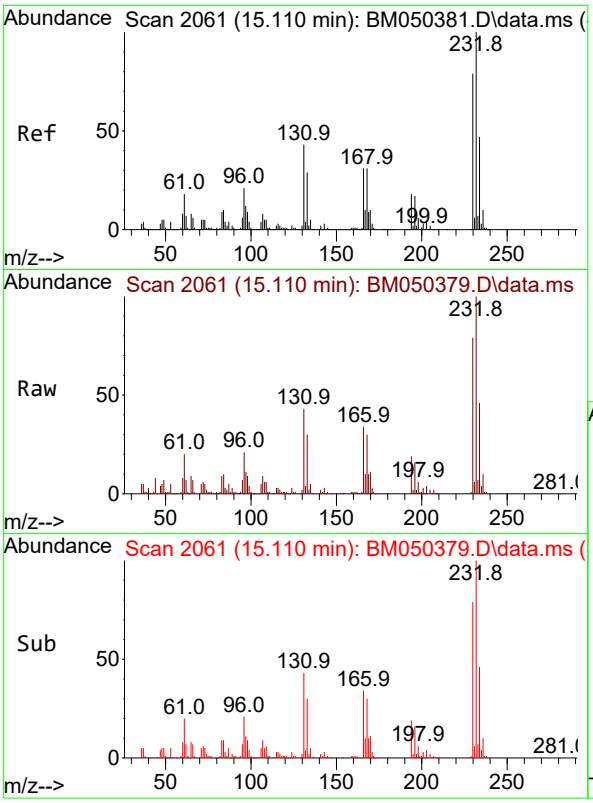


#58
Fluorene
Concen: 9.208 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:166 Resp: 562098

Ion	Ratio	Lower	Upper
166	100		
165	96.4	77.0	115.6
167	13.8	10.9	16.3

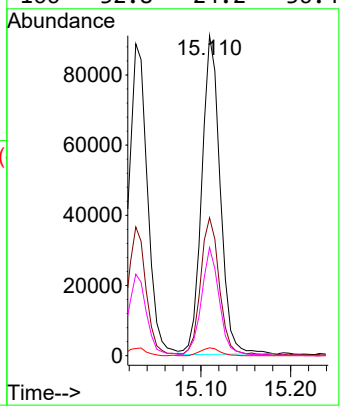




#59
2,3,4,6-Tetrachlorophenol
Concen: 8.509 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:232 Resp: 12959

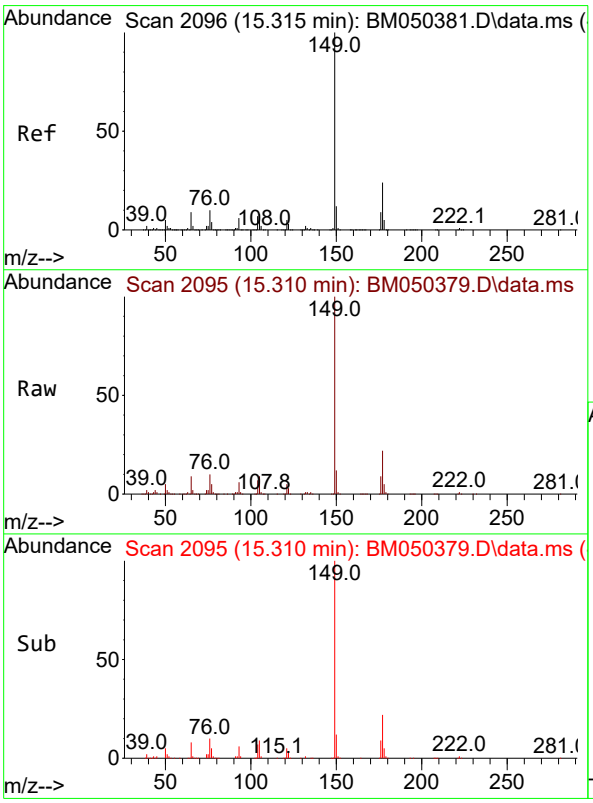
Ion	Ratio	Lower	Upper
232	100		
131	43.3	33.4	50.0
130	2.6	1.8	2.6
166	32.8	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

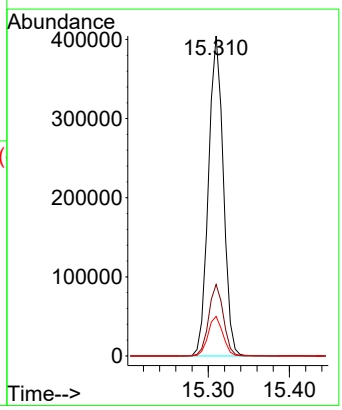
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

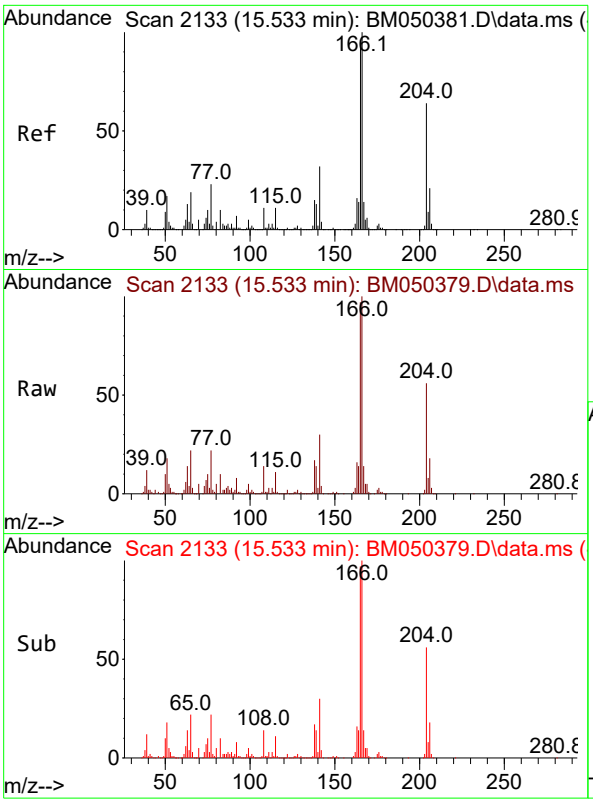


#60
Diethylphthalate
Concen: 9.200 ng
RT: 15.310 min Scan# 2095
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:149 Resp: 512043

Ion	Ratio	Lower	Upper
149	100		
177	22.3	18.8	28.2
150	12.3	9.8	14.8

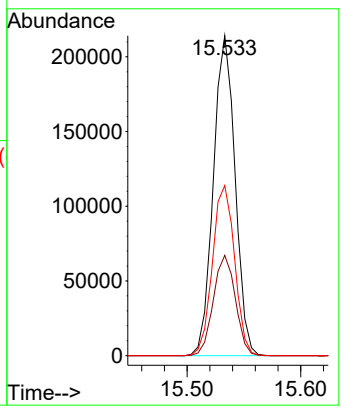




#61
4-Chlorophenyl-phenylether
Concen: 8.918 ng
RT: 15.533 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

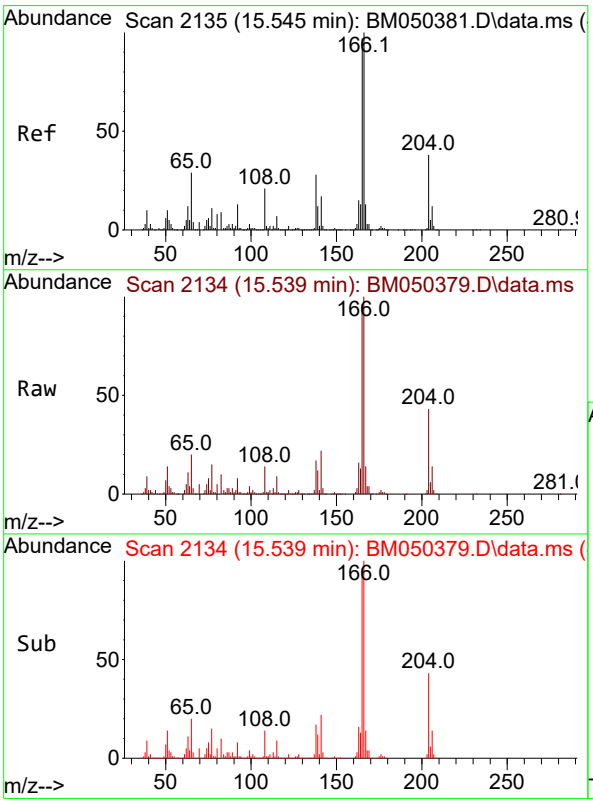
Tgt Ion:204 Resp: 28465

Ion	Ratio	Lower	Upper
204	100		
206	31.3	26.6	39.8
141	53.1	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

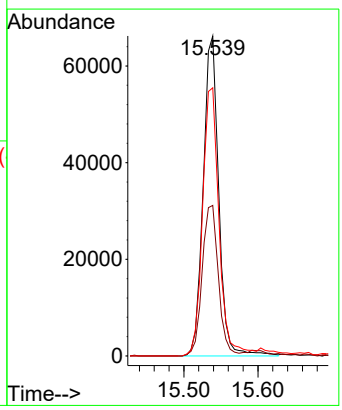
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

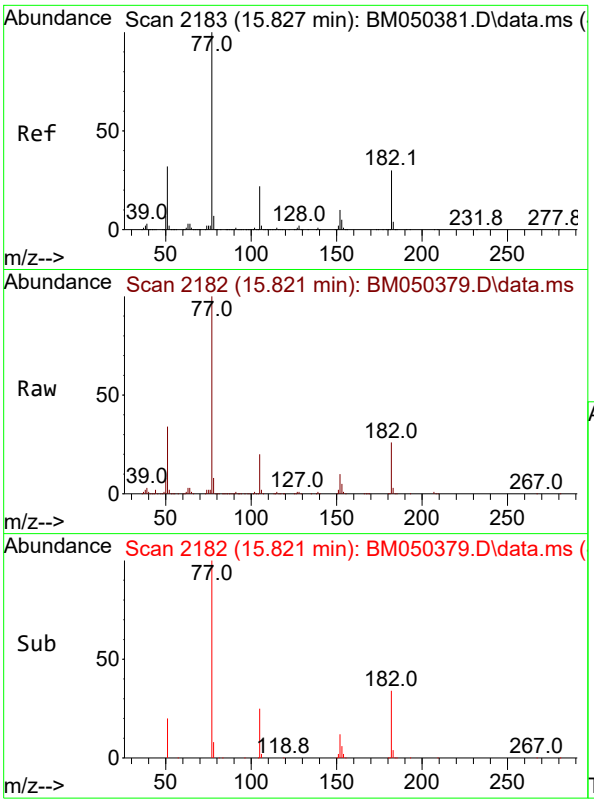


#62
4-Nitroaniline
Concen: 9.259 ng
RT: 15.539 min Scan# 2134
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:138 Resp: 96460

Ion	Ratio	Lower	Upper
138	100		
92	47.1	24.5	64.5
108	83.8	52.5	92.5

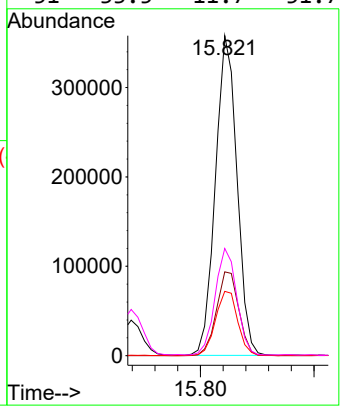




#63
Azobenzene
Concen: 9.239 ng
RT: 15.821 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion: 77 Resp: 47216

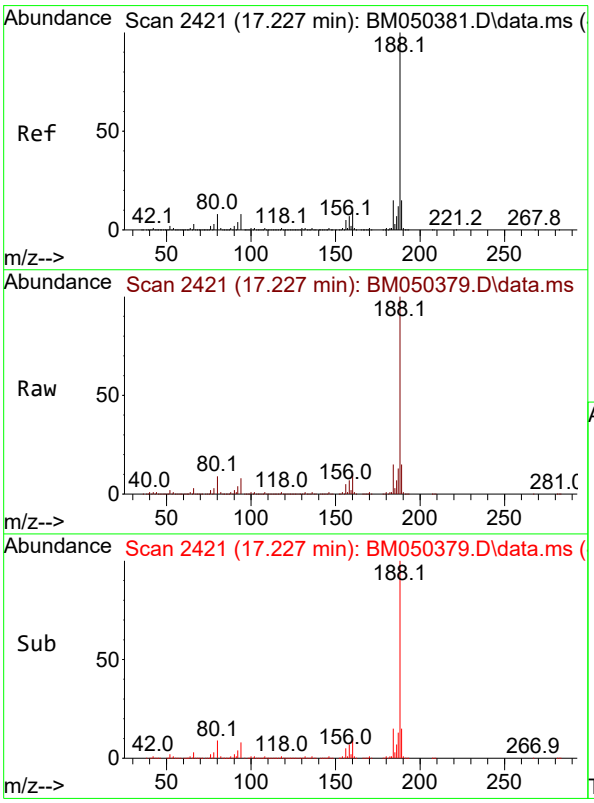
Ion	Ratio	Lower	Upper
77	100		
182	26.2	10.0	50.0
105	20.1	2.0	42.0
51	33.5	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

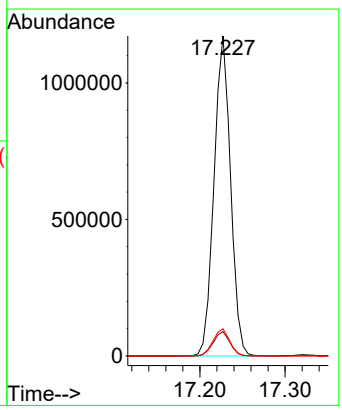
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

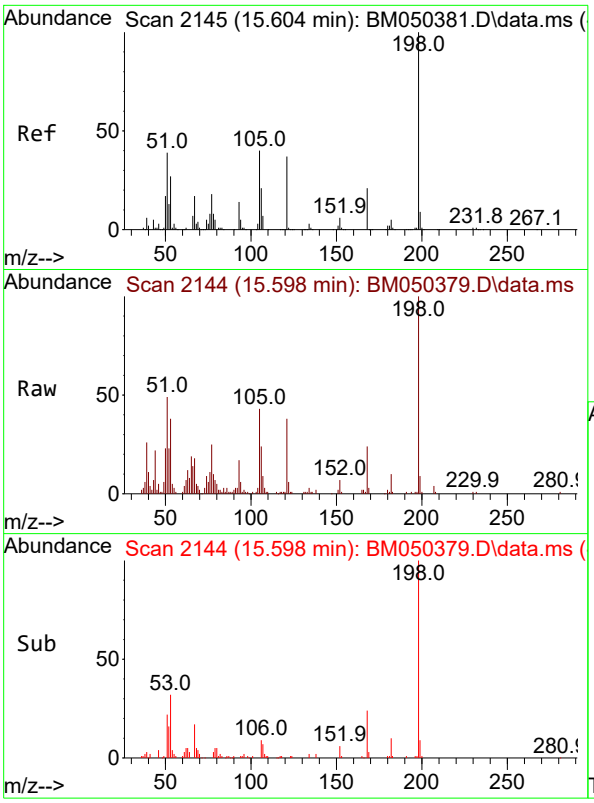


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:188 Resp: 1580349

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.0	9.0
80	8.5	6.5	9.7





#65
4,6-Dinitro-2-methylphenol
Concen: 10.934 ng
RT: 15.598 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

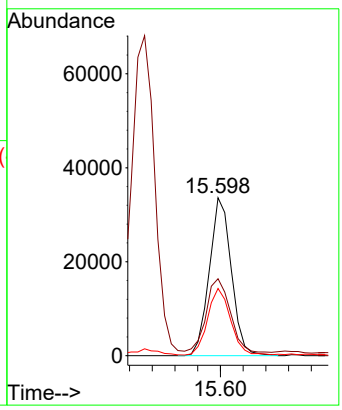
Tgt Ion:198 Resp: 4530

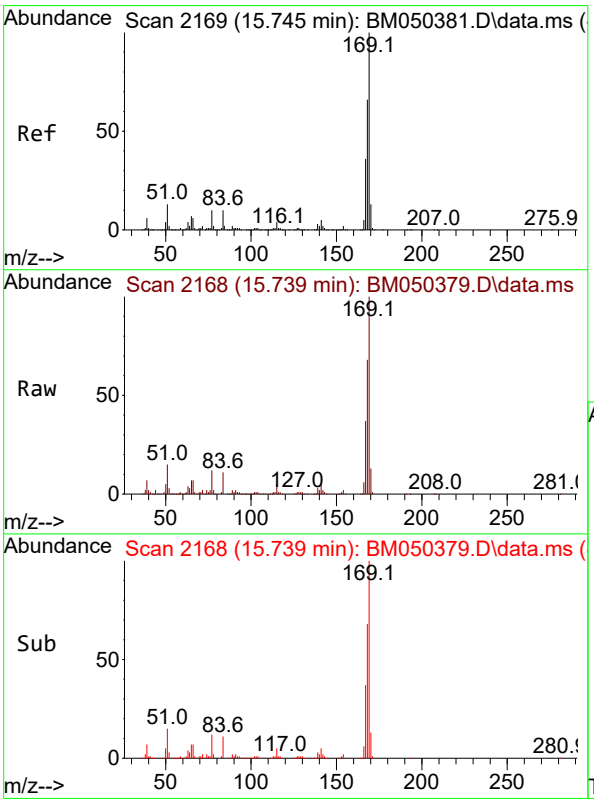
Ion	Ratio	Lower	Upper
198	100		
51	48.7	26.6	66.6
105	42.6	20.9	60.9

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

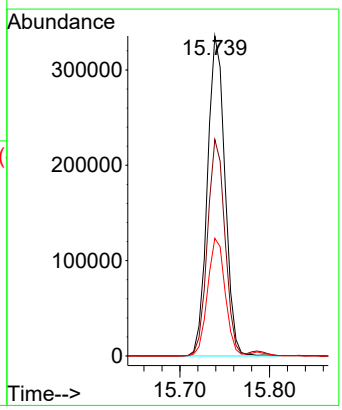


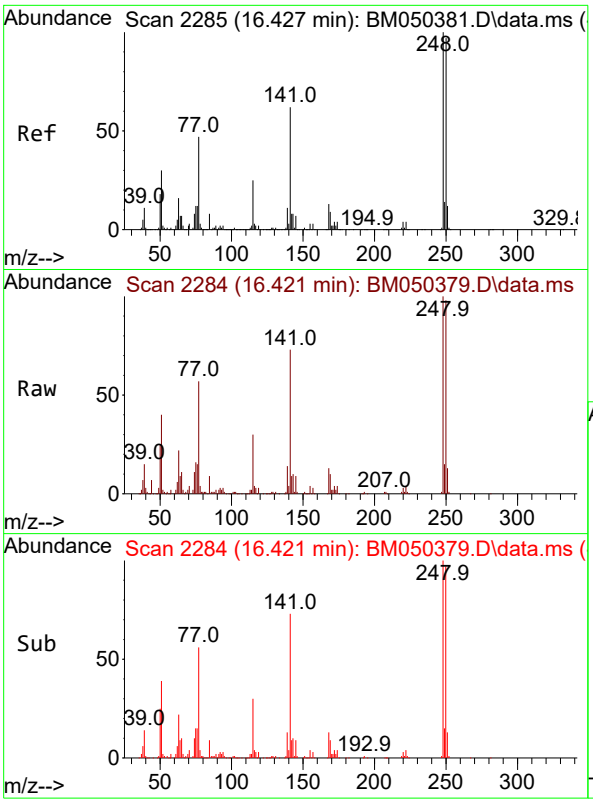


#66
n-Nitrosodiphenylamine
Concen: 9.215 ng
RT: 15.739 min Scan# 2168
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:169 Resp: 455683

Ion	Ratio	Lower	Upper
169	100		
168	67.7	53.2	79.8
167	36.7	28.7	43.1

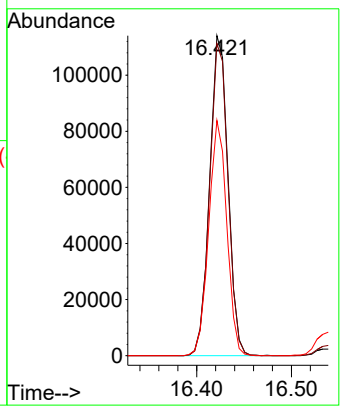




#67
4-Bromophenyl-phenylether
Concen: 8.812 ng
RT: 16.421 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

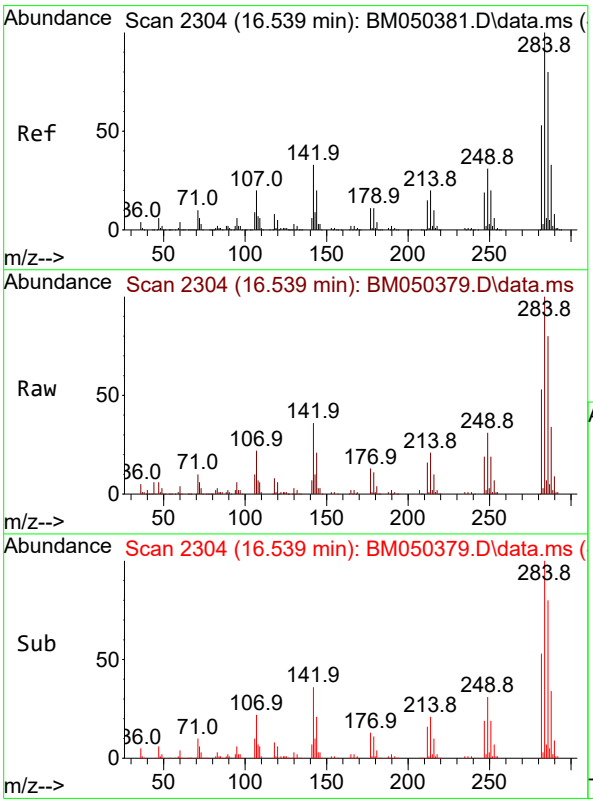
Tgt Ion:248 Resp: 15342

Ion	Ratio	Lower	Upper
248	100		
250	97.5	77.9	116.9
141	73.5	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

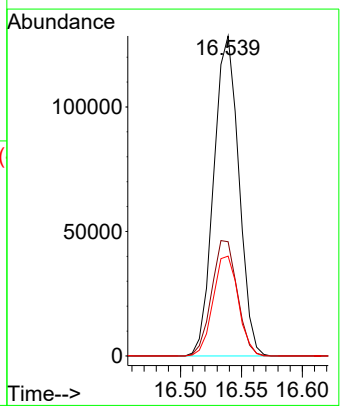
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

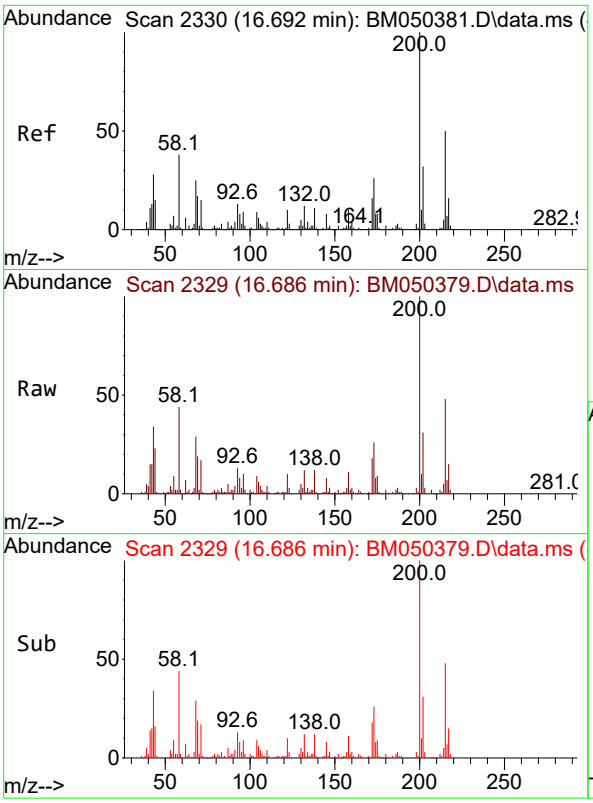


#68
Hexachlorobenzene
Concen: 8.960 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:284 Resp: 184262

Ion	Ratio	Lower	Upper
284	100		
142	35.7	26.8	40.2
249	31.2	24.5	36.7

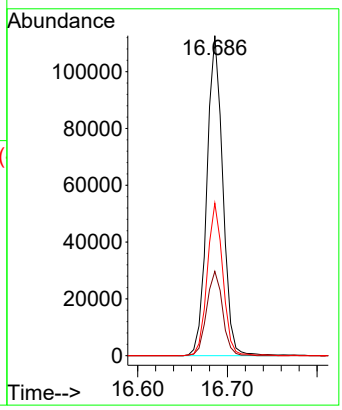




#69
Atrazine
Concen: 8.495 ng
RT: 16.686 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:200 Resp: 13794

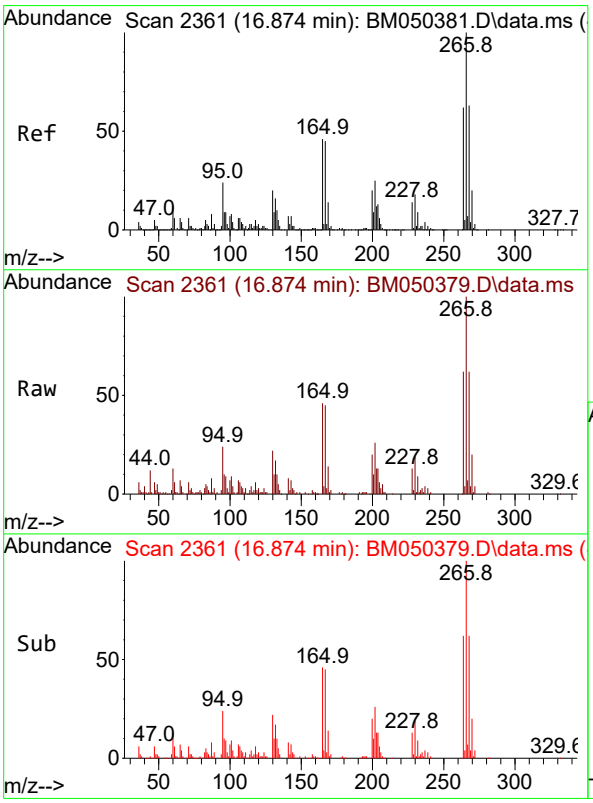
Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.6	45.6
215	47.7	29.6	69.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

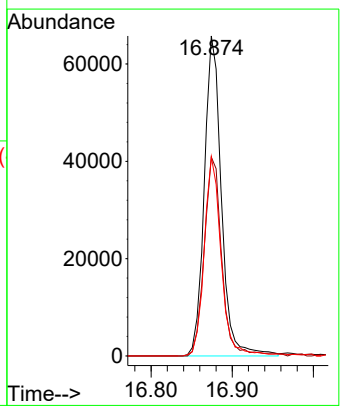
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

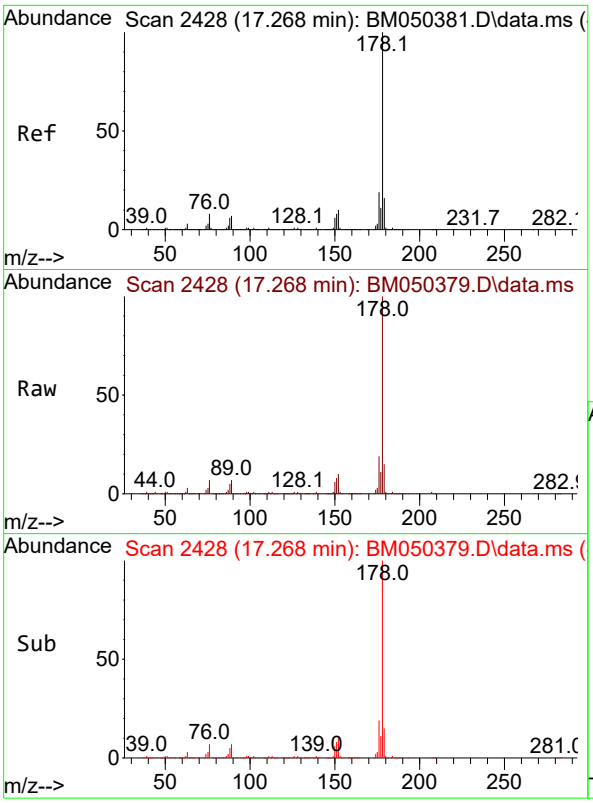


#70
Pentachlorophenol
Concen: 7.515 ng
RT: 16.874 min Scan# 2361
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:266 Resp: 96207

Ion	Ratio	Lower	Upper
266	100		
268	62.2	50.5	75.7
264	62.3	49.9	74.9

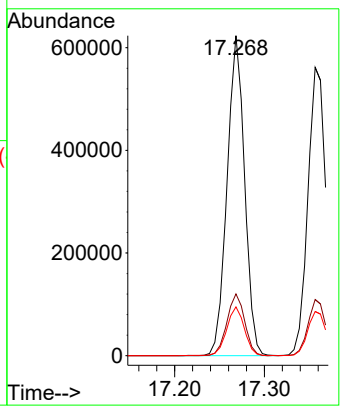




#71
Phenanthrene
Concen: 9.454 ng
RT: 17.268 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:178 Resp: 84539

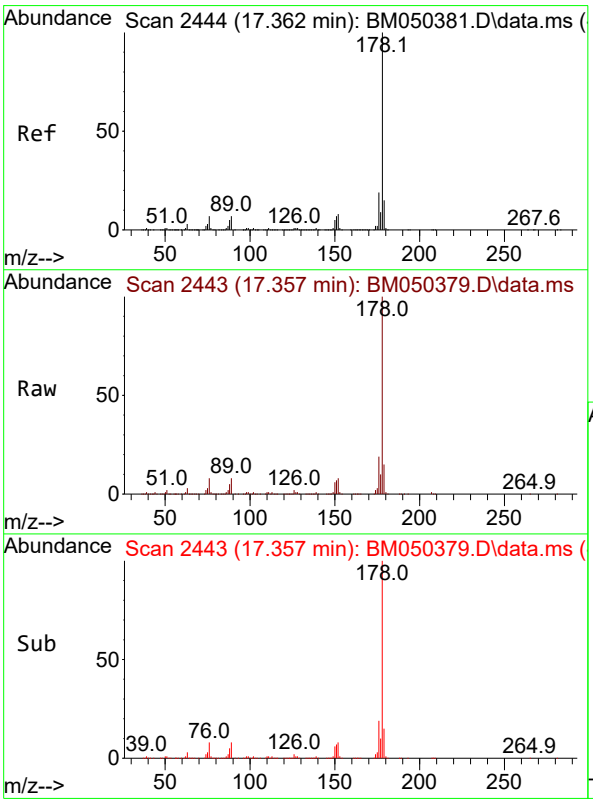
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	15.2	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

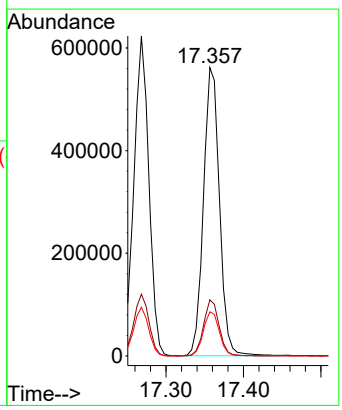
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

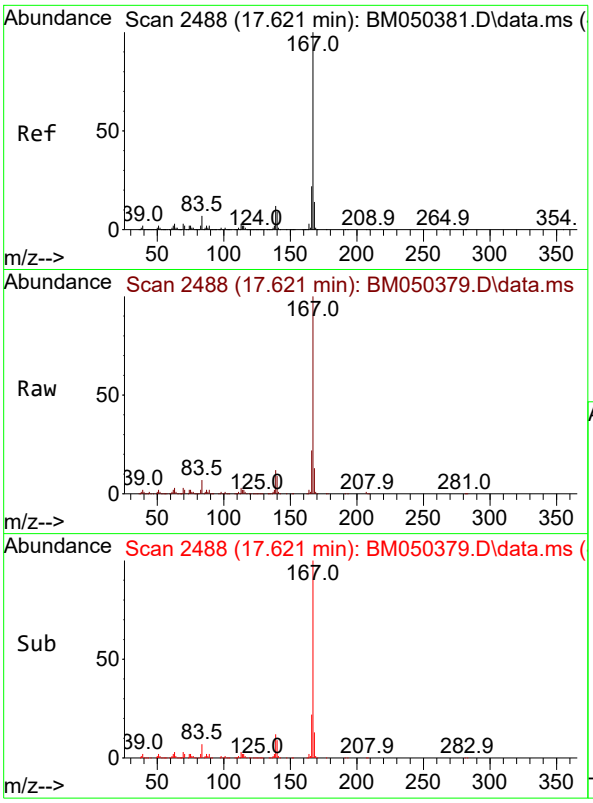


#72
Anthracene
Concen: 9.025 ng
RT: 17.357 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:178 Resp: 803377

Ion	Ratio	Lower	Upper
178	100		
176	19.5	14.9	22.3
179	15.3	12.2	18.4

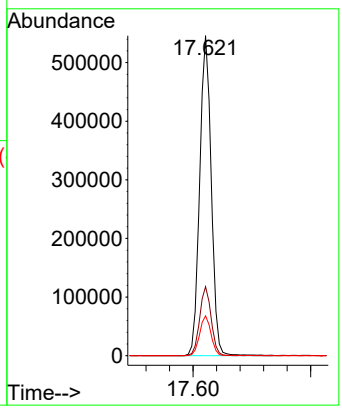




#73
Carbazole
Concen: 9.263 ng
RT: 17.621 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:167 Resp: 74602

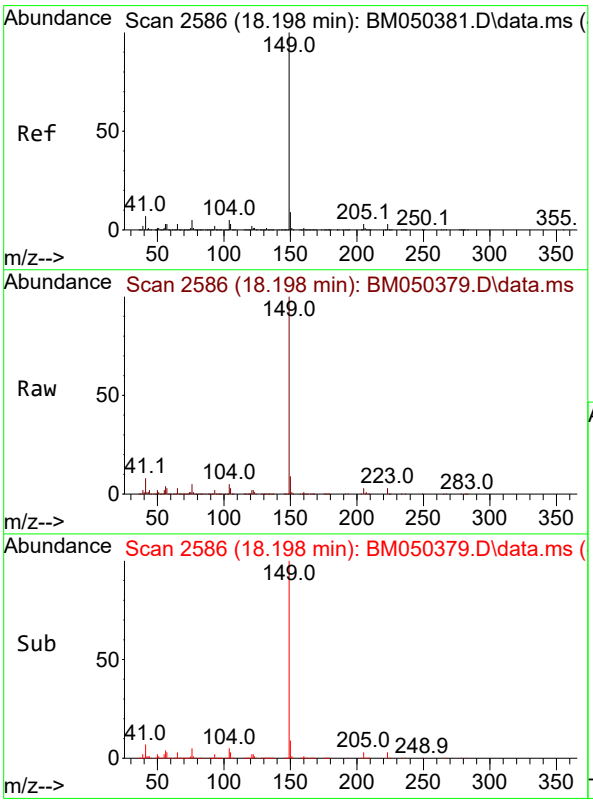
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	12.5	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

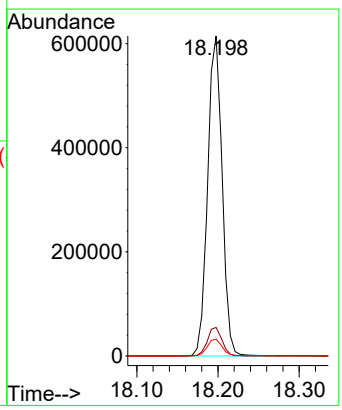
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

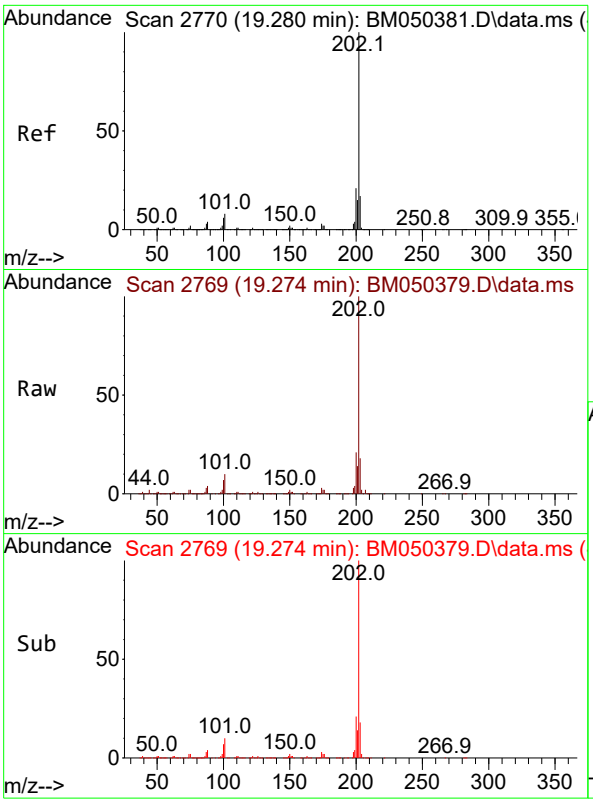


#74
Di-n-butylphthalate
Concen: 8.610 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:149 Resp: 759019

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.3	10.9
104	5.2	3.9	5.9

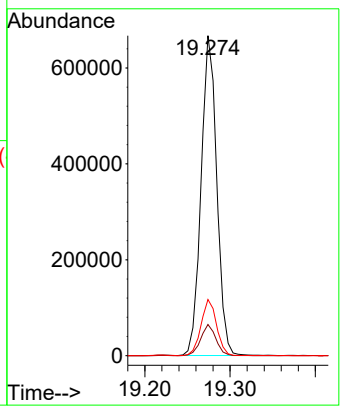




#75
Fluoranthene
Concen: 8.768 ng
RT: 19.274 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:202 Resp: 85238

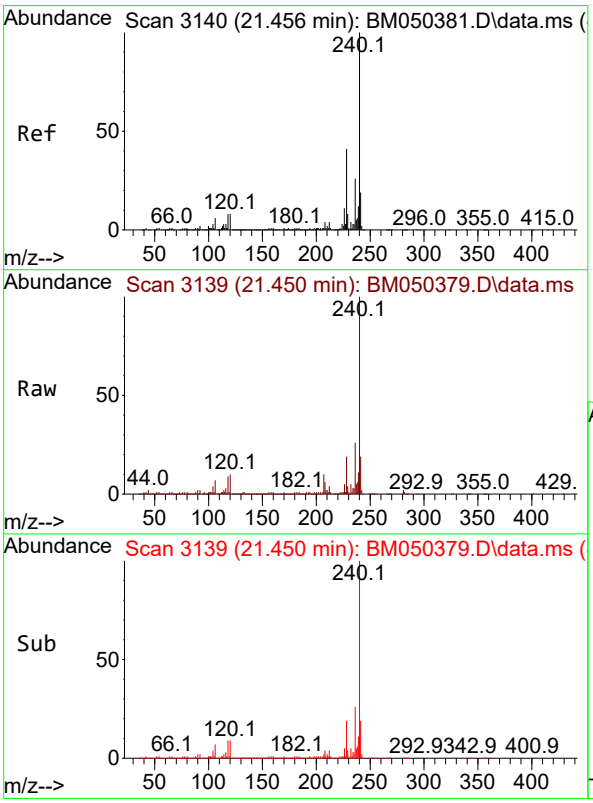
Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	28.3
203	17.5	0.0	37.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

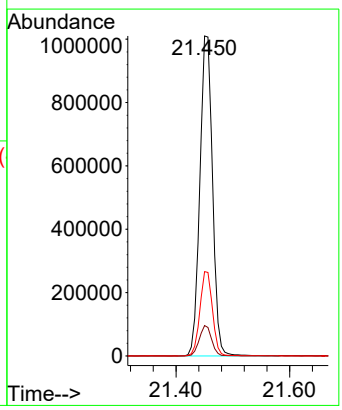
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

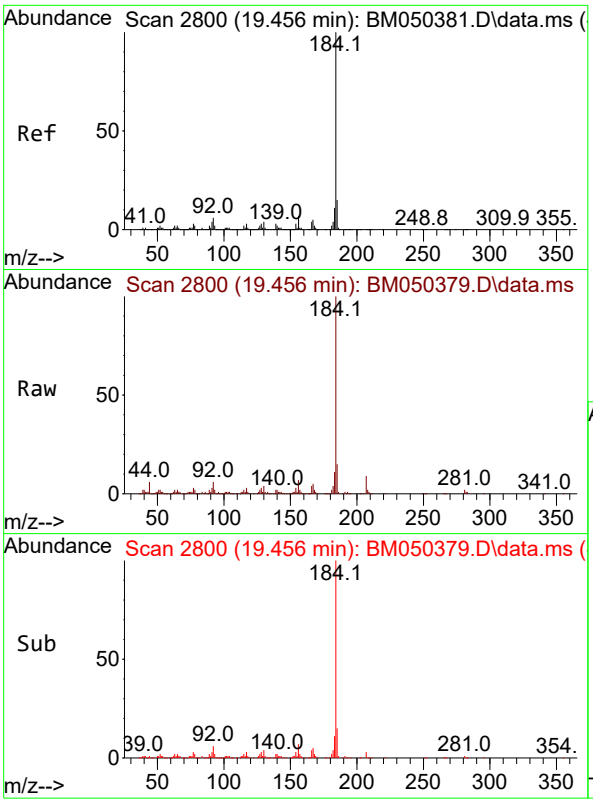


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.450 min Scan# 3139
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:240 Resp: 1564213

Ion	Ratio	Lower	Upper
240	100		
120	9.5	6.7	10.1
236	26.4	20.7	31.1

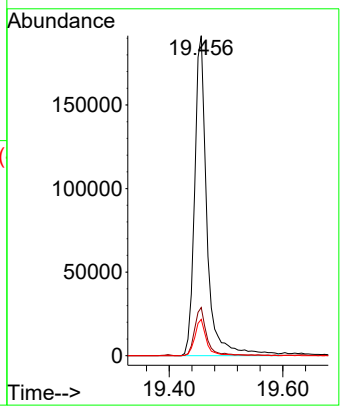




#77
Benzidine
Concen: 7.256 ng
RT: 19.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:184 Resp: 28948

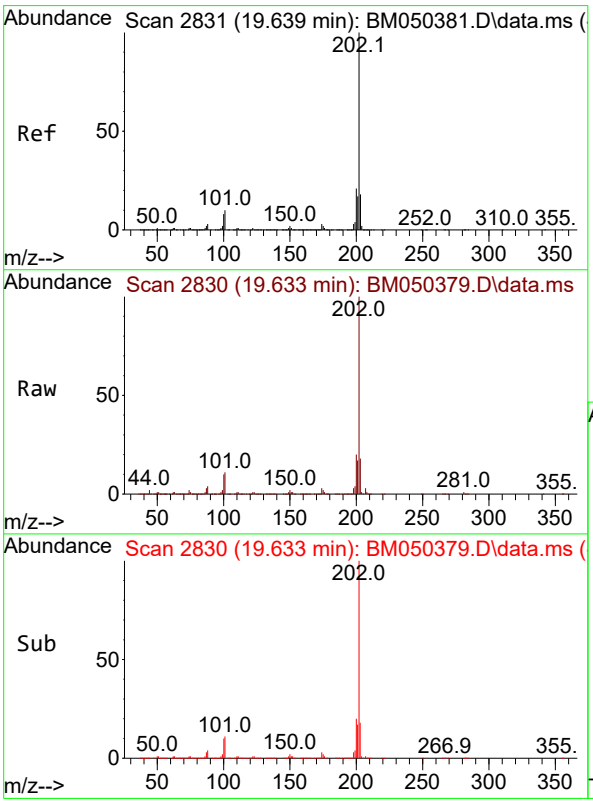
Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.7	17.5
183	11.3	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

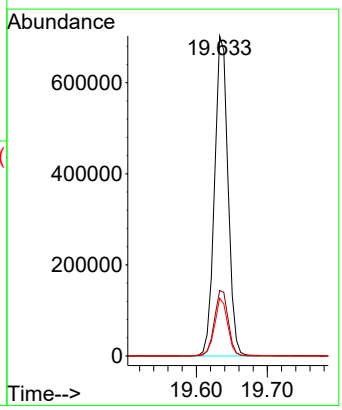
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

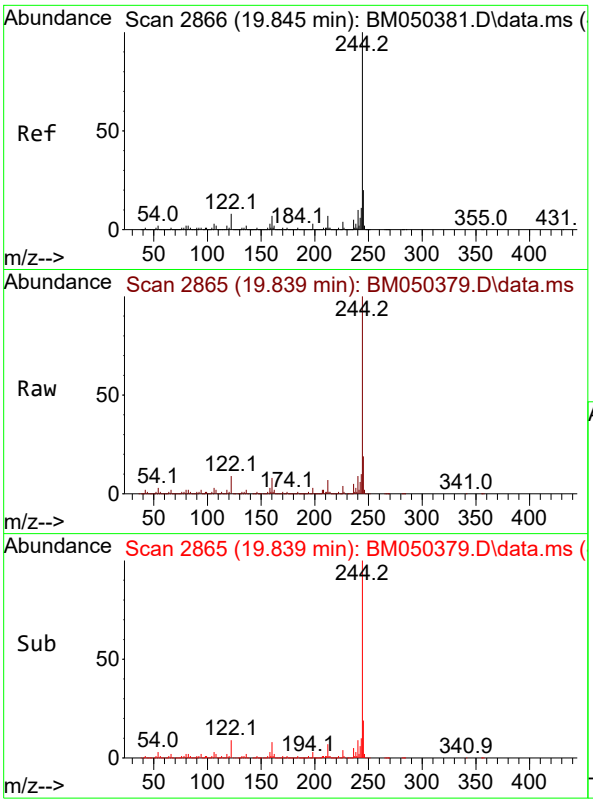


#78
Pyrene
Concen: 9.191 ng
RT: 19.633 min Scan# 2830
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:202 Resp: 920751

Ion	Ratio	Lower	Upper
202	100		
200	20.5	16.9	25.3
203	18.0	14.1	21.1

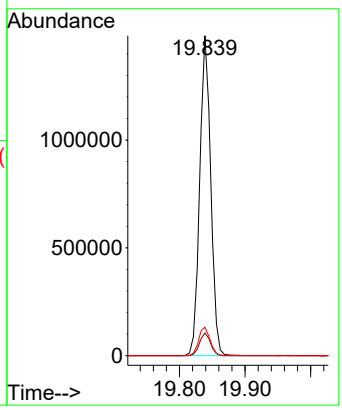




#79
Terphenyl-d14
Concen: 19.526 ng
RT: 19.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:244 Resp: 173585

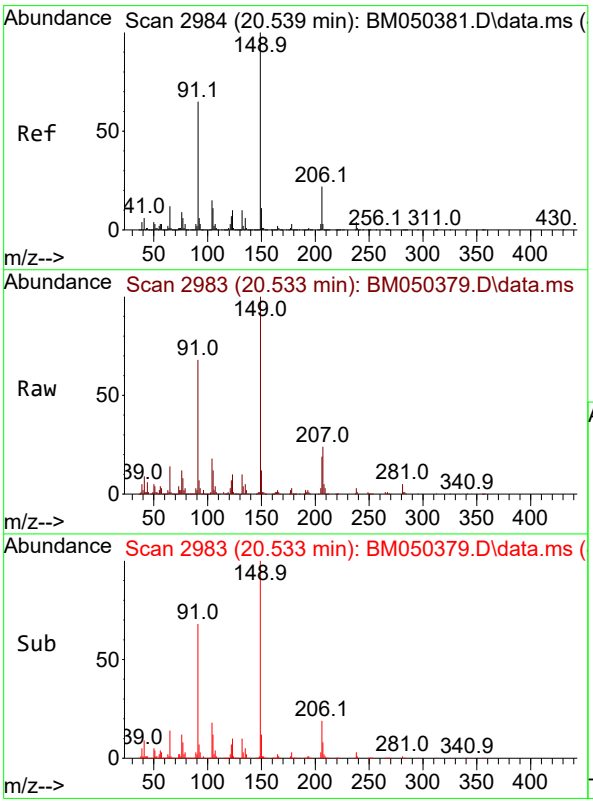
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	8.8	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

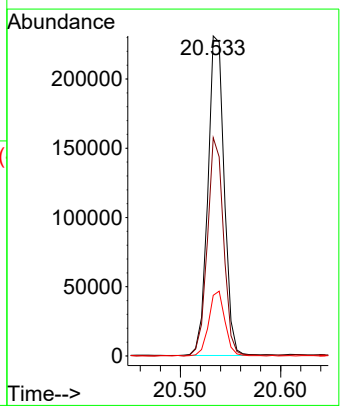
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

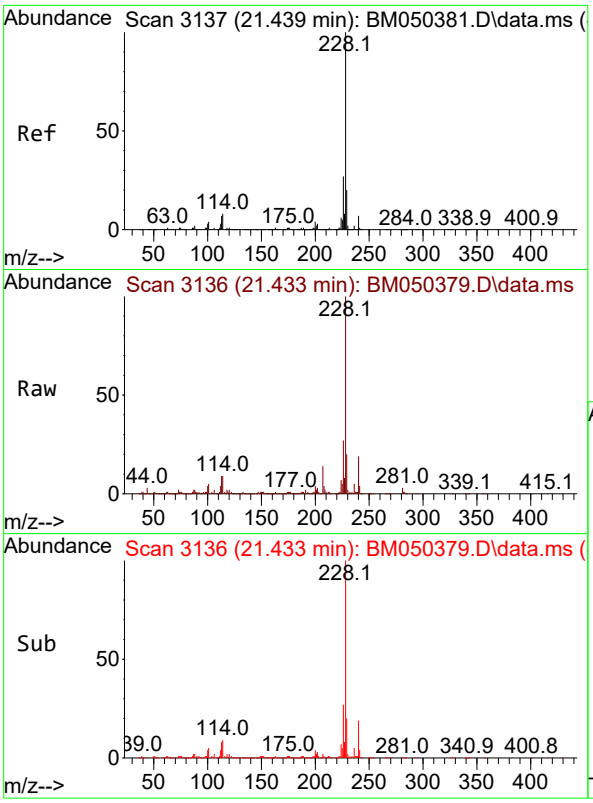


#80
Butylbenzylphthalate
Concen: 7.920 ng
RT: 20.533 min Scan# 2983
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:149 Resp: 261606

Ion	Ratio	Lower	Upper
149	100		
91	68.2	51.6	77.4
206	19.0	17.8	26.8

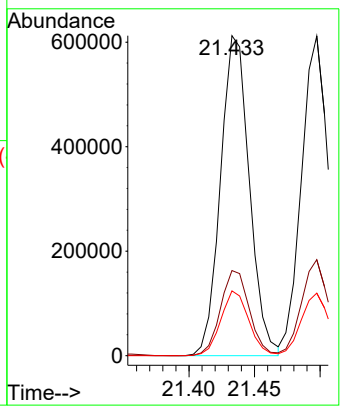




#81
Benzo(a)anthracene
Concen: 9.224 ng
RT: 21.433 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:228 Resp: 94012

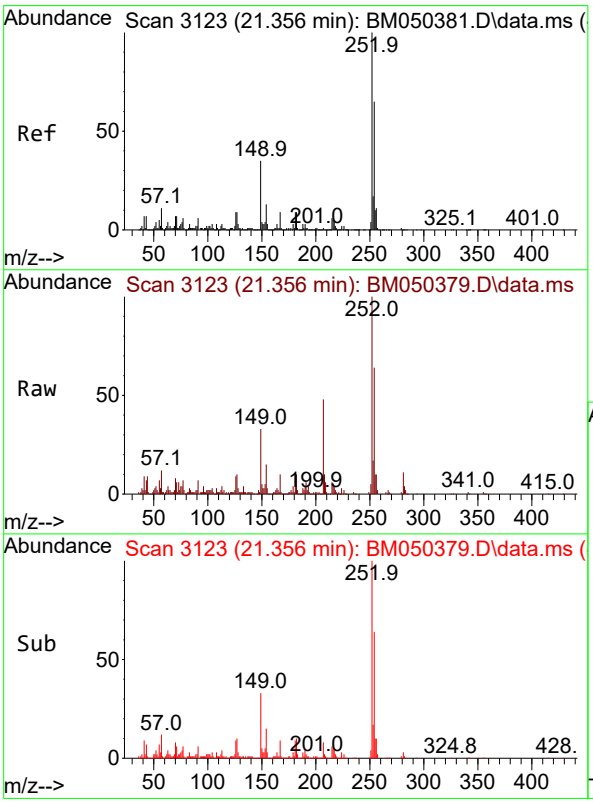
Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.8	32.8
229	20.3	16.0	24.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

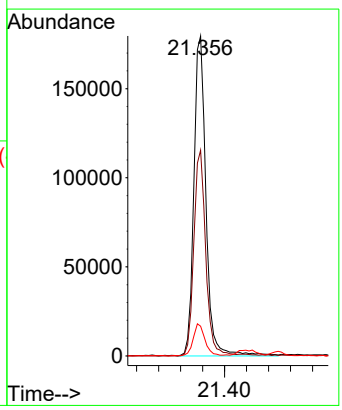
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

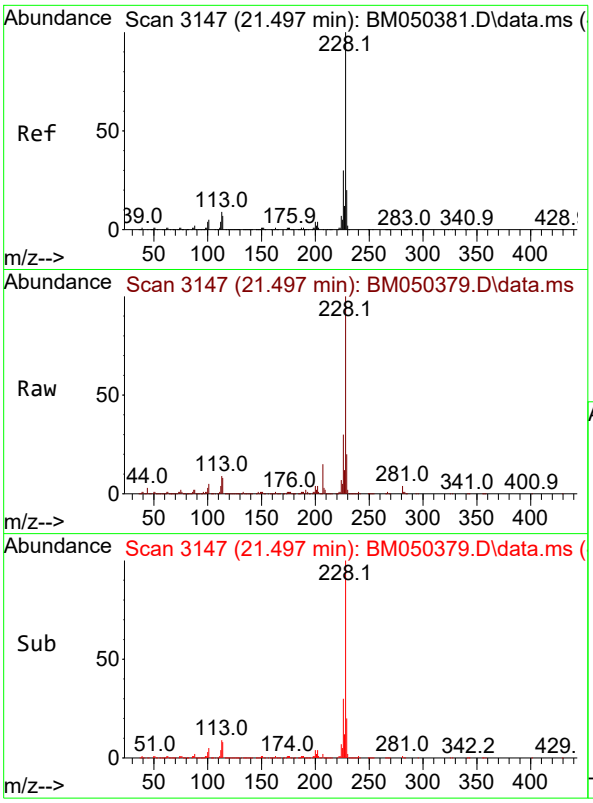


#82
3,3'-Dichlorobenzidine
Concen: 7.988 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:252 Resp: 274551

Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.7	77.5
126	9.3	7.3	10.9

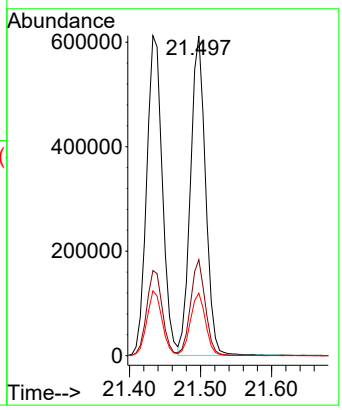




#83
Chrysene
Concen: 9.384 ng
RT: 21.497 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

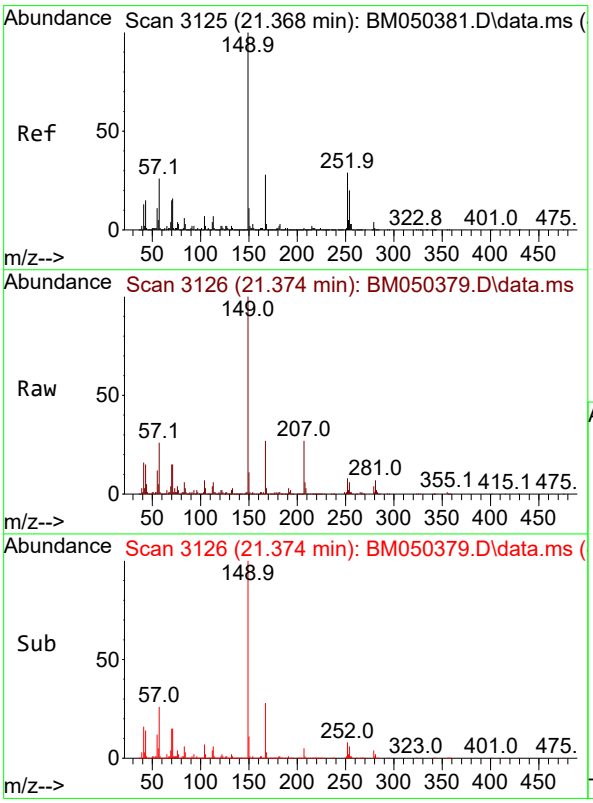
Tgt Ion:228 Resp: 90212

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.2	36.4
229	19.6	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

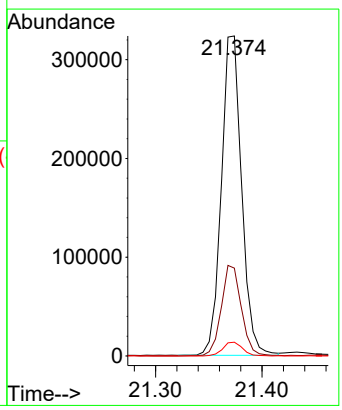
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

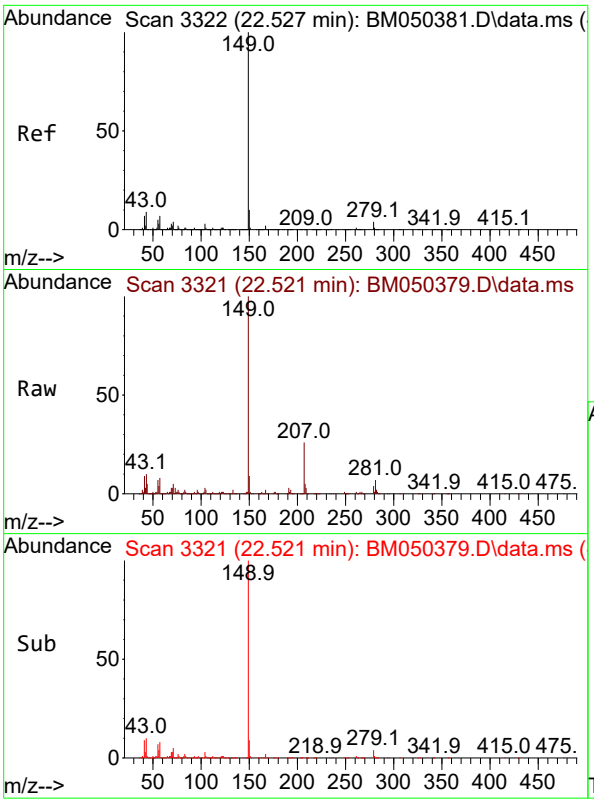


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.136 ng
RT: 21.374 min Scan# 3126
Delta R.T. 0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:149 Resp: 426642

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.7	34.1
279	4.3	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 7.070 ng
RT: 22.521 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

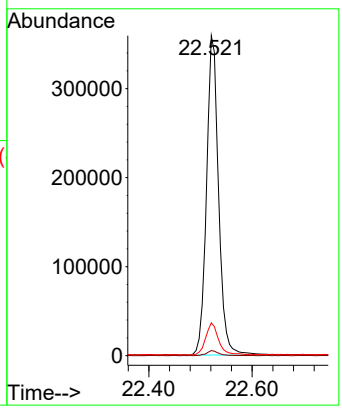
Tgt Ion:149 Resp: 58063

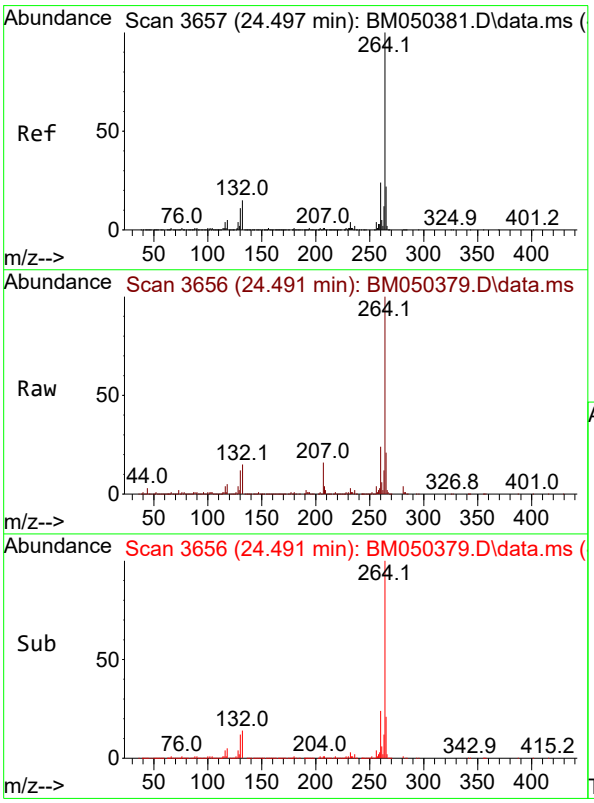
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.6	7.7	11.5

Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

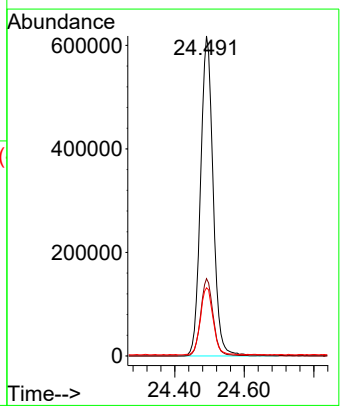


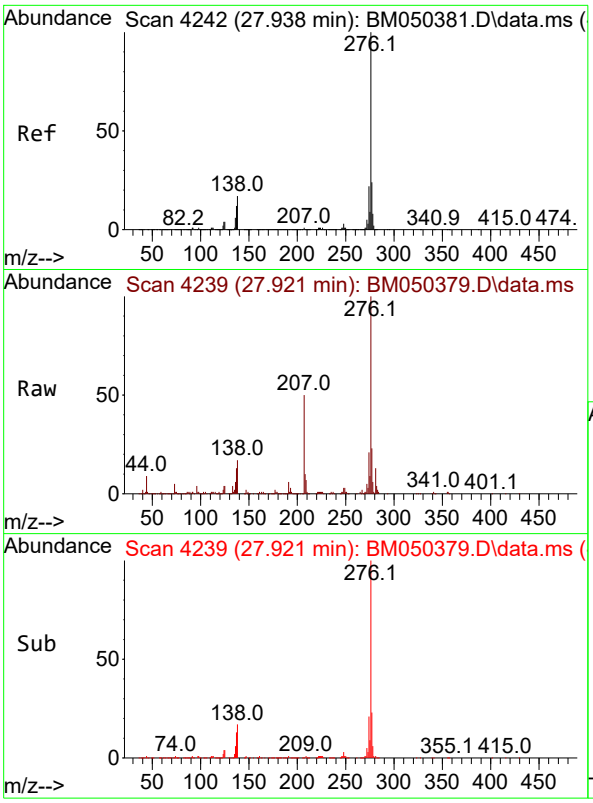


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.491 min Scan# 3656
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:264 Resp: 1552476

Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	21.3	17.8	26.6

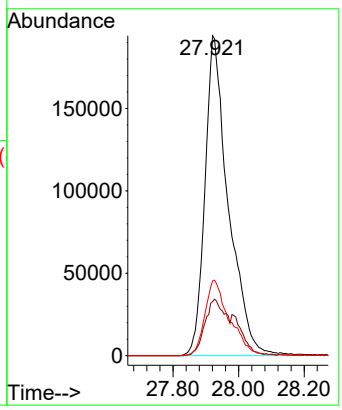




#87
Indeno(1,2,3-cd)pyrene
Concen: 8.706 ng
RT: 27.921 min Scan# 4
Delta R.T. -0.018 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:276 Resp: 96092

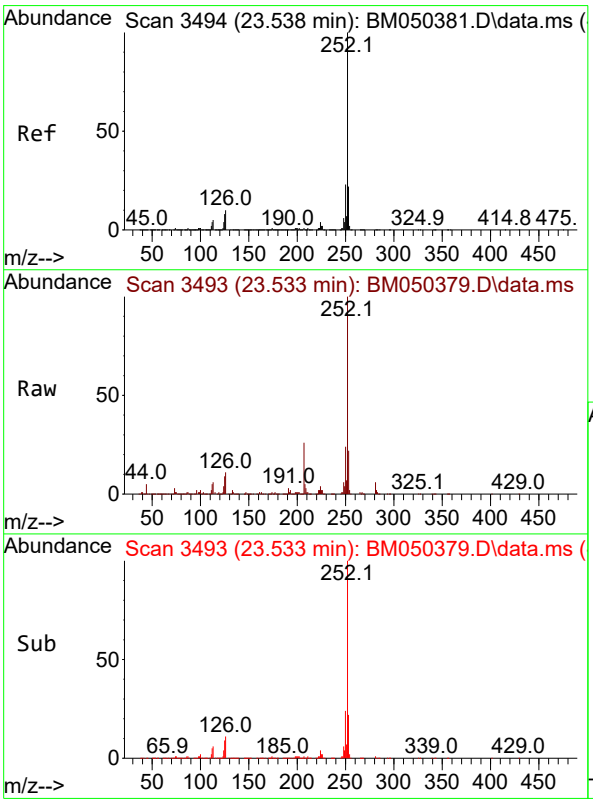
Ion	Ratio	Lower	Upper
276	100		
138	15.8	17.0	25.6
277	24.8	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

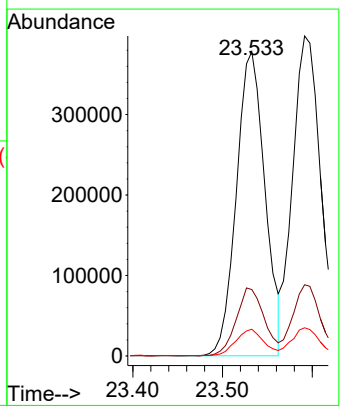
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

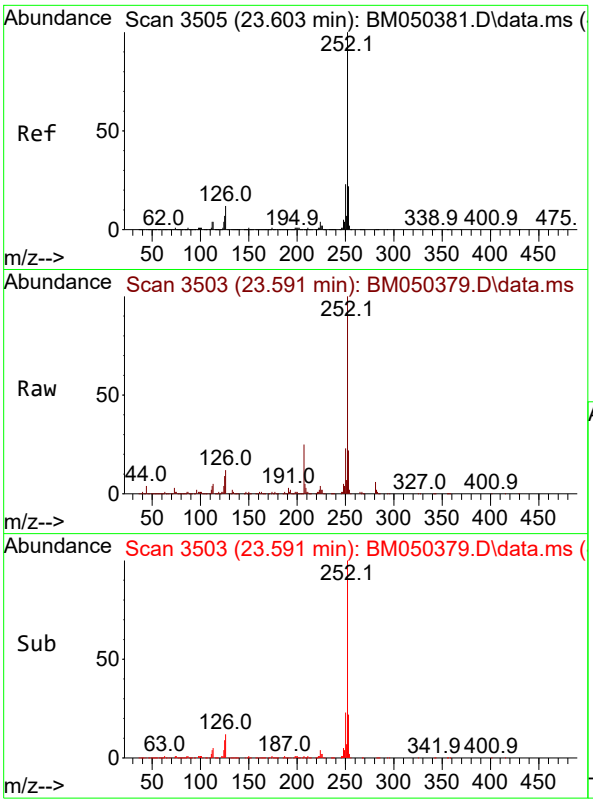


#88
Benzo(b)fluoranthene
Concen: 8.740 ng
RT: 23.533 min Scan# 3493
Delta R.T. -0.006 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:252 Resp: 834603

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	8.8	6.3	9.5

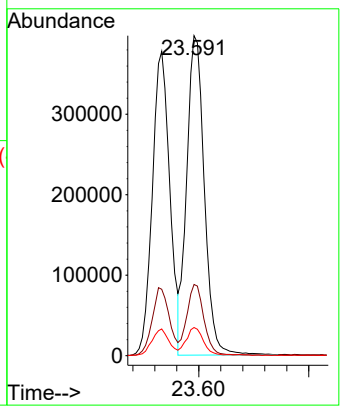




#89
Benzo(k)fluoranthene
Concen: 8.919 ng
RT: 23.591 min Scan# 3
Delta R.T. -0.012 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:252 Resp: 88370

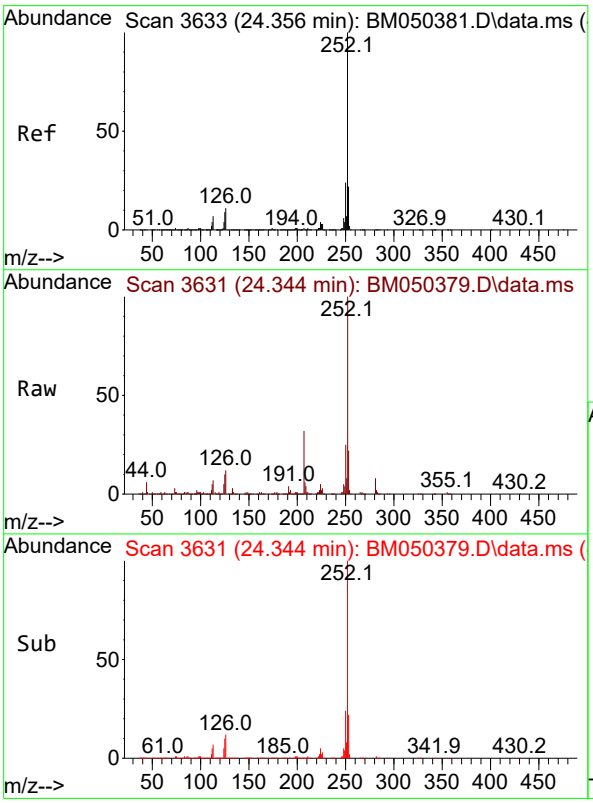
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	8.8	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

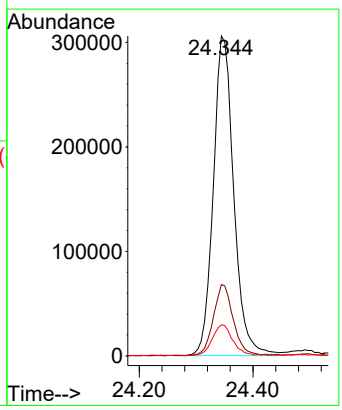
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

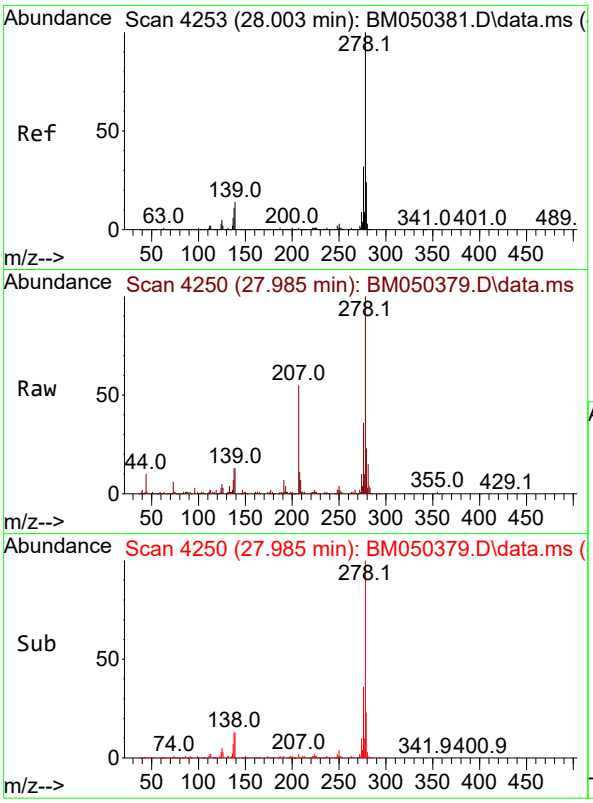


#90
Benzo(a)pyrene
Concen: 8.550 ng
RT: 24.344 min Scan# 3631
Delta R.T. -0.012 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:252 Resp: 764280

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	9.7	7.0	10.4

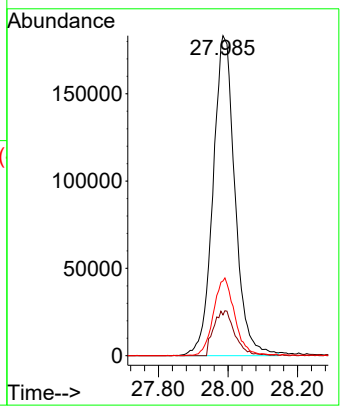




#91
Dibenzo(a,h)anthracene
Concen: 8.639 ng
RT: 27.985 min Scan# 4
Delta R.T. -0.018 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:278 Resp: 80305

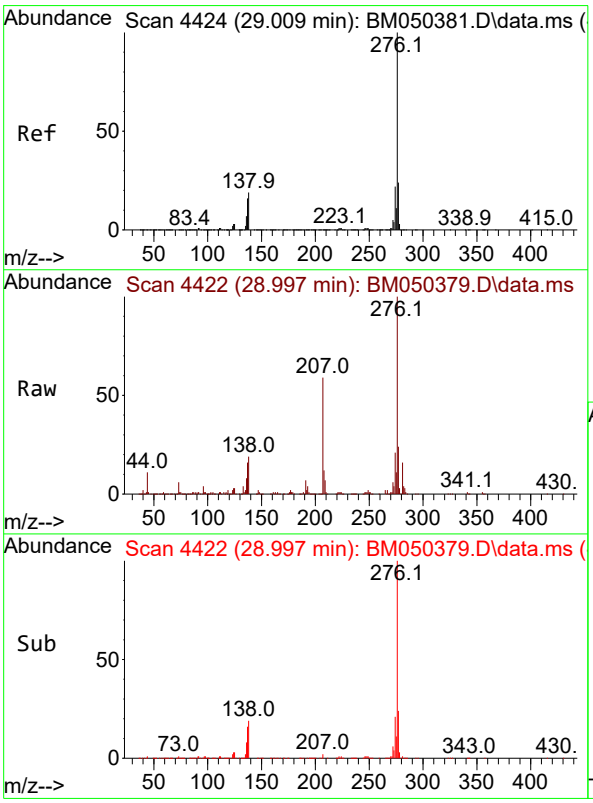
Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.8	16.2
279	23.4	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

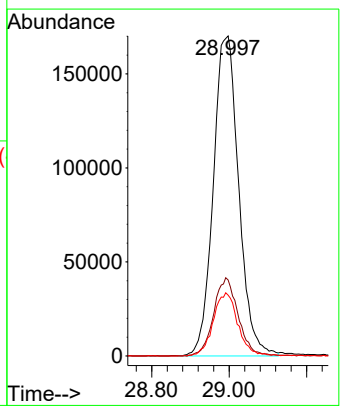
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



#92
Benzo(g,h,i)perylene
Concen: 8.841 ng
RT: 28.997 min Scan# 4422
Delta R.T. -0.012 min
Lab File: BM050379.D
Acq: 08 Jul 2025 14:00

Tgt Ion:276 Resp: 776700

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
138	19.0	14.9	22.3



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050380.D
Acq On : 08 Jul 2025 14:40
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 18:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.863	152	361505	20.000	ng		0.00
21) Naphthalene-d8	10.663	136	1364913	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	879171	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	1676151	20.000	ng		0.00
76) Chrysene-d12	21.456	240	1698030	20.000	ng		0.00
86) Perylene-d12	24.492	264	1655344	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	830817	39.560	ng		0.00
7) Phenol-d6	7.016	99	1041640	39.345	ng		0.00
23) Nitrobenzene-d5	9.016	82	1065139	39.813	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	404270	37.846	ng		0.00
45) 2-Fluorobiphenyl	13.122	172	2831991	39.780	ng		0.00
79) Terphenyl-d14	19.839	244	4159871	43.104	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.334	88	174356	20.190	ng		99
3) Pyridine	3.734	79	453940	20.022	ng		99
4) n-Nitrosodimethylamine	3.640	42	215262	20.366	ng	#	95
6) Aniline	7.187	93	666785	19.625	ng		100
8) 2-Chlorophenol	7.428	128	440657	19.898	ng		97
9) Benzaldehyde	6.999	77	355966m	22.600	ng		
10) Phenol	7.046	94	548000	19.845	ng		98
11) bis(2-Chloroethyl)ether	7.281	93	442290	20.000	ng		100
12) 1,3-Dichlorobenzene	7.757	146	540913	20.088	ng		98
13) 1,4-Dichlorobenzene	7.899	146	555418	20.200	ng		99
14) 1,2-Dichlorobenzene	8.216	146	525580	19.966	ng		99
15) Benzyl Alcohol	8.099	79	359867	19.292	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.393	45	657213	20.176	ng		100
17) 2-Methylphenol	8.299	107	354110	19.772	ng		100
18) Hexachloroethane	8.951	117	192269	19.883	ng		97
19) n-Nitroso-di-n-propyla...	8.669	70	320932	20.010	ng		98
20) 3+4-Methylphenols	8.622	107	468665	19.493	ng		99
22) Acetophenone	8.681	105	684104	20.046	ng	#	99
24) Nitrobenzene	9.057	77	481755	20.179	ng		100
25) Isophorone	9.587	82	865912	19.946	ng		99
26) 2-Nitrophenol	9.775	139	180315	18.532	ng		99
27) 2,4-Dimethylphenol	9.828	122	410521	19.828	ng		98
28) bis(2-Chloroethoxy)met...	10.069	93	575979	20.023	ng		100
29) 2,4-Dichlorophenol	10.304	162	424771	19.970	ng		99
30) 1,2,4-Trichlorobenzene	10.528	180	503042	19.769	ng		98
31) Naphthalene	10.710	128	1397680	20.160	ng		99
32) Benzoic acid	9.910	122	189237	19.011	ng		100
33) 4-Chloroaniline	10.810	127	582272	19.867	ng		99
34) Hexachlorobutadiene	11.010	225	303657	19.552	ng		99
35) Caprolactam	11.569	113	110042	18.951	ng		95
36) 4-Chloro-3-methylphenol	11.928	107	393366	19.804	ng		99
37) 2-Methylnaphthalene	12.322	142	871365	19.906	ng		98
38) 1-Methylnaphthalene	12.539	142	920592	19.872	ng		100
40) 1,2,4,5-Tetrachloroben...	12.686	216	536934	19.205	ng		99
41) Hexachlorocyclopentadiene	12.675	237	317506	17.766	ng		99
43) 2,4,6-Trichlorophenol	12.922	196	331504	19.263	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050380.D
Acq On : 08 Jul 2025 14:40
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 18:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.992	196	364770	19.408	ng	99
46) 1,1'-Biphenyl	13.328	154	1300397	19.936	ng	99
47) 2-Chloronaphthalene	13.369	162	1043593	20.066	ng	99
48) 2-Nitroaniline	13.563	65	222094	19.132	ng	98
49) Acenaphthylene	14.216	152	1578057	20.078	ng	99
50) Dimethylphthalate	13.945	163	1202901	19.873	ng	100
51) 2,6-Dinitrotoluene	14.057	165	231144	19.889	ng	99
52) Acenaphthene	14.557	154	990178	19.816	ng	99
53) 3-Nitroaniline	14.380	138	244460	19.779	ng	96
54) 2,4-Dinitrophenol	14.586	184	85284	18.641	ng	96
55) Dibenzofuran	14.886	168	1543545	20.048	ng	99
56) 4-Nitrophenol	14.680	139	198160	18.644	ng	99
57) 2,4-Dinitrotoluene	14.839	165	299004	18.935	ng	95
58) Fluorene	15.539	166	1255879	19.803	ng	98
59) 2,3,4,6-Tetrachlorophenol	15.110	232	312205	19.733	ng	99
60) Diethylphthalate	15.310	149	1159537	20.055	ng	98
61) 4-Chlorophenyl-phenyle...	15.533	204	644238	19.428	ng	99
62) 4-Nitroaniline	15.539	138	249635	19.209	ng	93
63) Azobenzene	15.822	77	1085005	20.436	ng	96
65) 4,6-Dinitro-2-methylph...	15.604	198	129223	18.758	ng	97
66) n-Nitrosodiphenylamine	15.739	169	1039509	19.819	ng	98
67) 4-Bromophenyl-phenylether	16.422	248	353272	19.130	ng	96
68) Hexachlorobenzene	16.539	284	424108	19.444	ng	99
69) Atrazine	16.686	200	333655	19.373	ng	97
70) Pentachlorophenol	16.874	266	243316	17.920	ng	98
71) Phenanthrene	17.269	178	1876408	19.784	ng	100
72) Anthracene	17.357	178	1859273	19.694	ng	99
73) Carbazole	17.621	167	1691521	19.801	ng	100
74) Di-n-butylphthalate	18.198	149	1829412	19.566	ng	100
75) Fluoranthene	19.274	202	1980887	19.212	ng	98
77) Benzidine	19.451	184	884477	20.422	ng	99
78) Pyrene	19.639	202	2140070	19.679	ng	99
80) Butylbenzylphthalate	20.533	149	681649	19.009	ng	95
81) Benzo(a)anthracene	21.433	228	2176940	19.676	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	689176	18.471	ng	100
83) Chrysene	21.498	228	2037978	19.529	ng	100
84) Bis(2-ethylhexyl)phtha...	21.368	149	1117874	19.638	ng	100
85) Di-n-octyl phthalate	22.521	149	1580618	17.729	ng	99
87) Indeno(1,2,3-cd)pyrene	27.927	276	2274737	19.328	ng	99
88) Benzo(b)fluoranthene	23.533	252	1948651	19.138	ng	99
89) Benzo(k)fluoranthene	23.592	252	2064811	19.544	ng	99
90) Benzo(a)pyrene	24.350	252	1819117	19.085	ng	99
91) Dibenzo(a,h)anthracene	27.991	278	1918673	19.357	ng	100
92) Benzo(g,h,i)perylene	28.997	276	1815952	19.385	ng	99

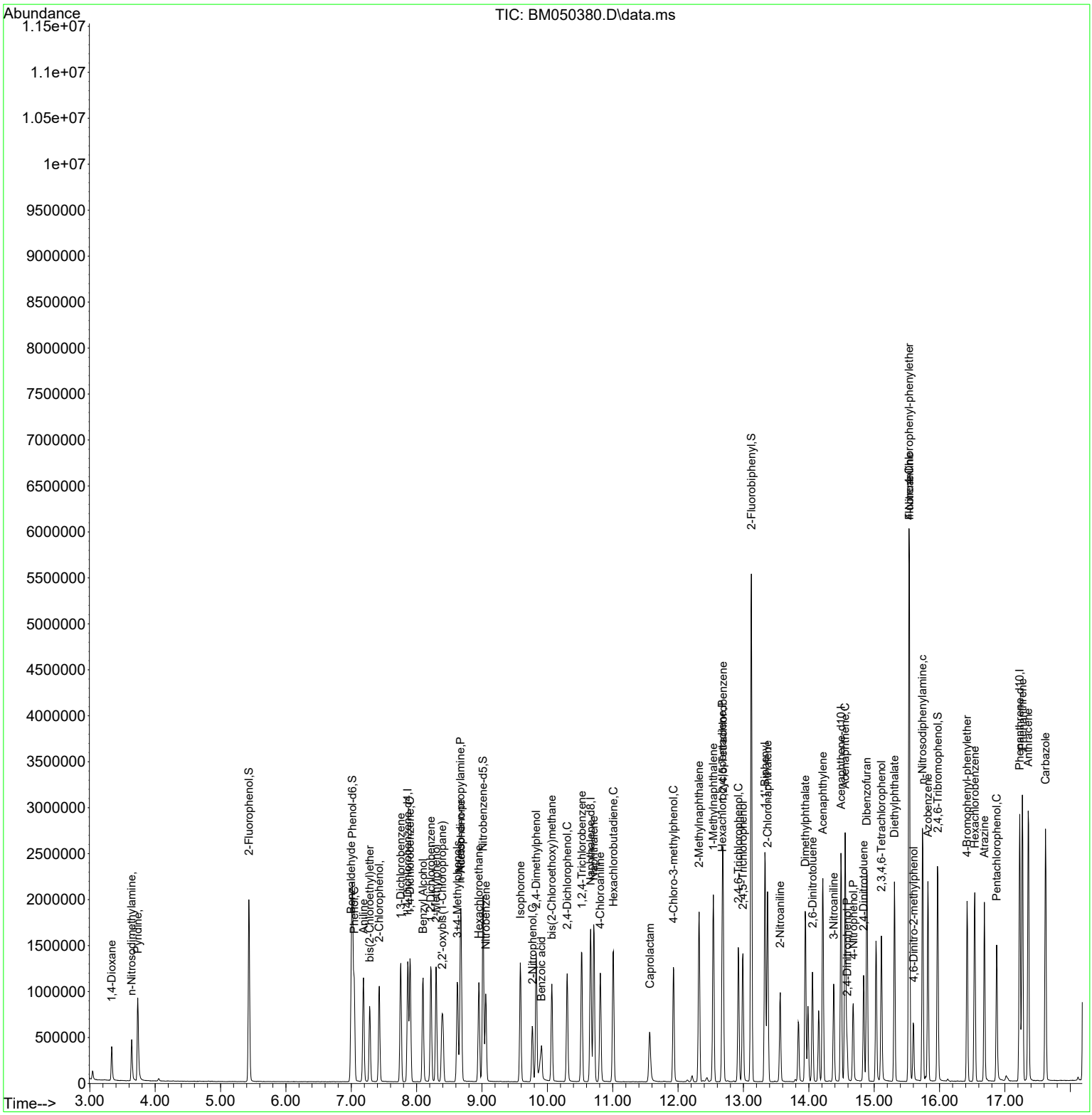
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050380.D
Acq On : 08 Jul 2025 14:40
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 18:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

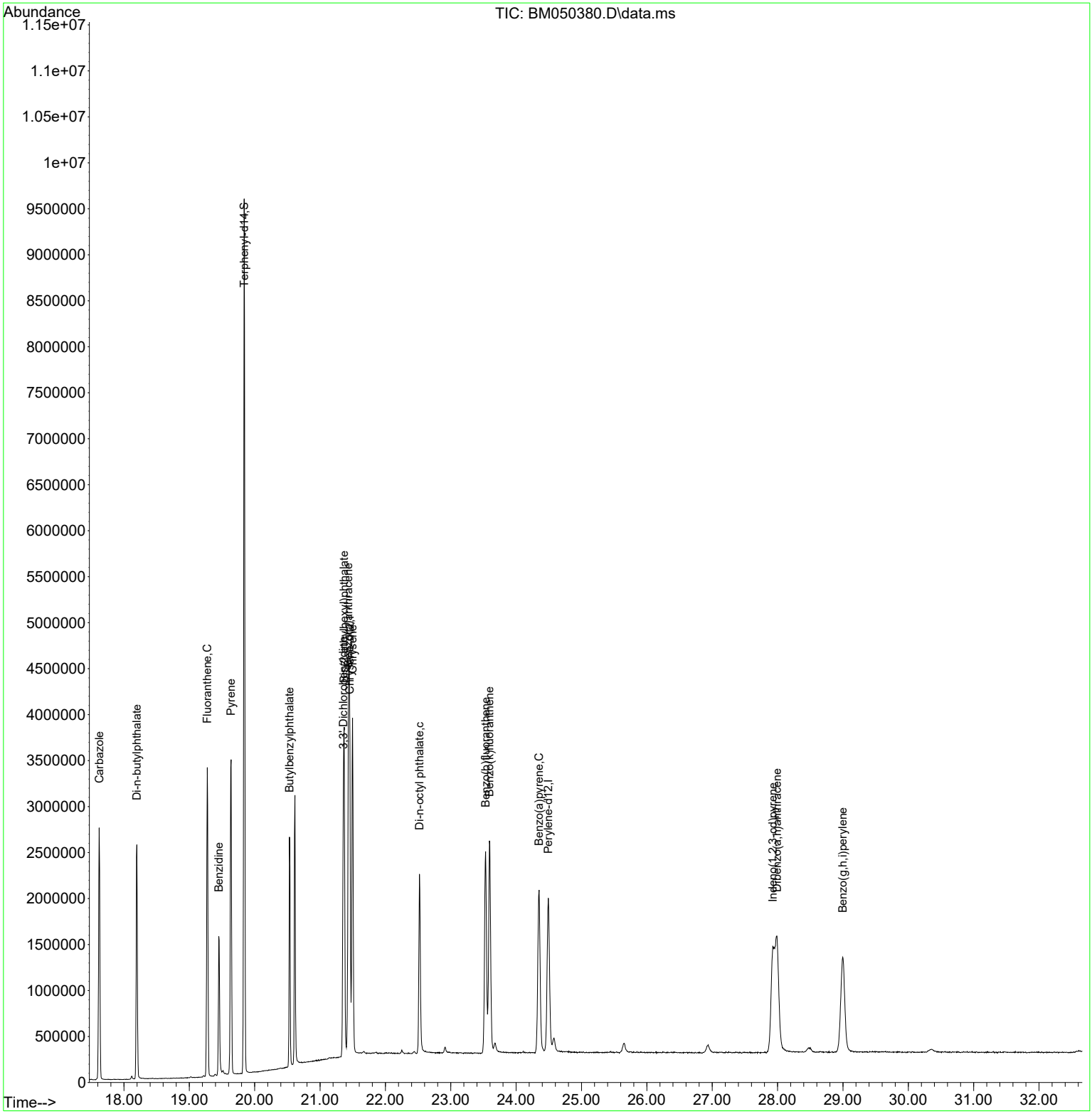


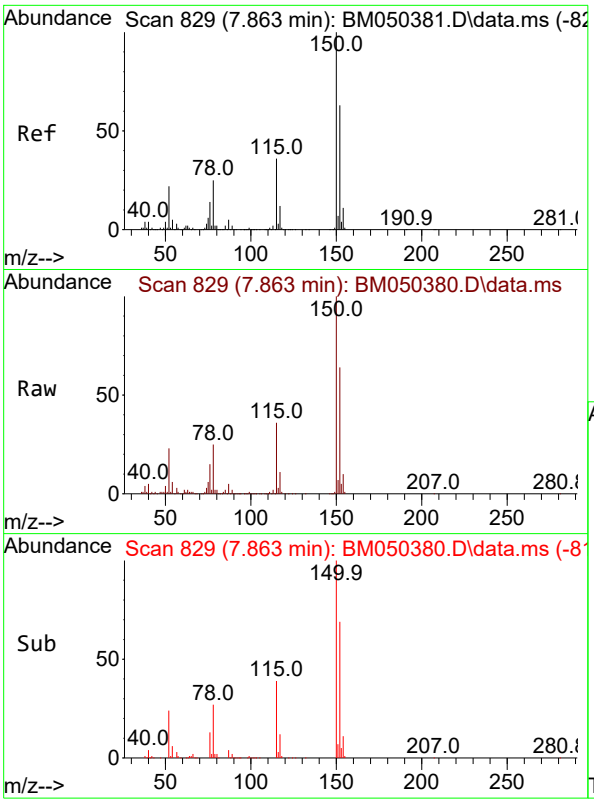
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050380.D
Acq On : 08 Jul 2025 14:40
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 08 18:21:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

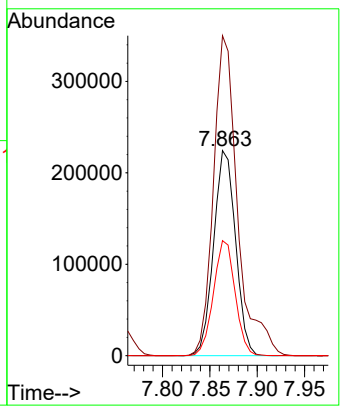




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:152 Resp: 36150

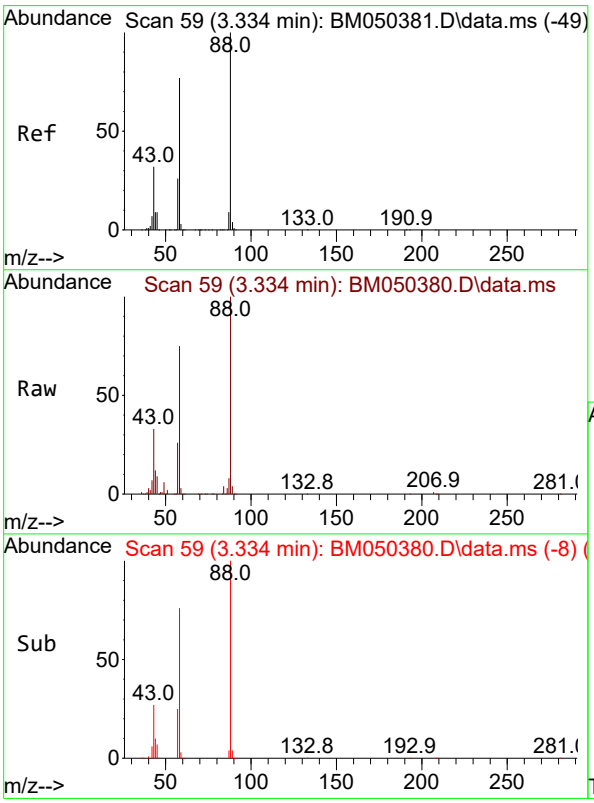
Ion	Ratio	Lower	Upper
152	100		
150	156.0	126.2	189.4
115	56.1	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

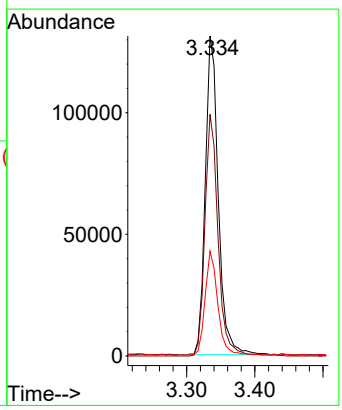
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

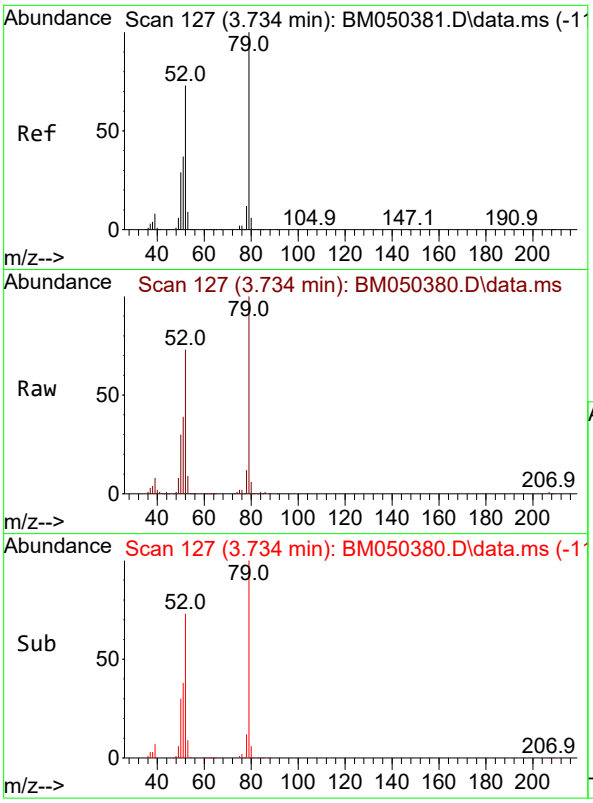


#2
1,4-Dioxane
Concen: 20.190 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 88 Resp: 174356

Ion	Ratio	Lower	Upper
88	100		
58	76.7	61.0	91.6
43	31.7	24.6	37.0

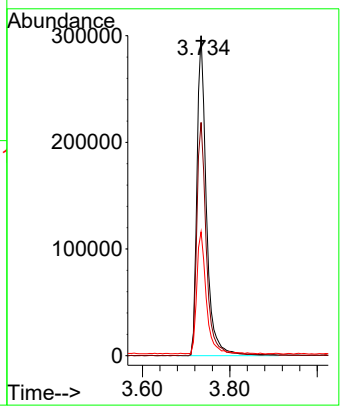




#3
Pyridine
Concen: 20.022 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 79 Resp: 45394

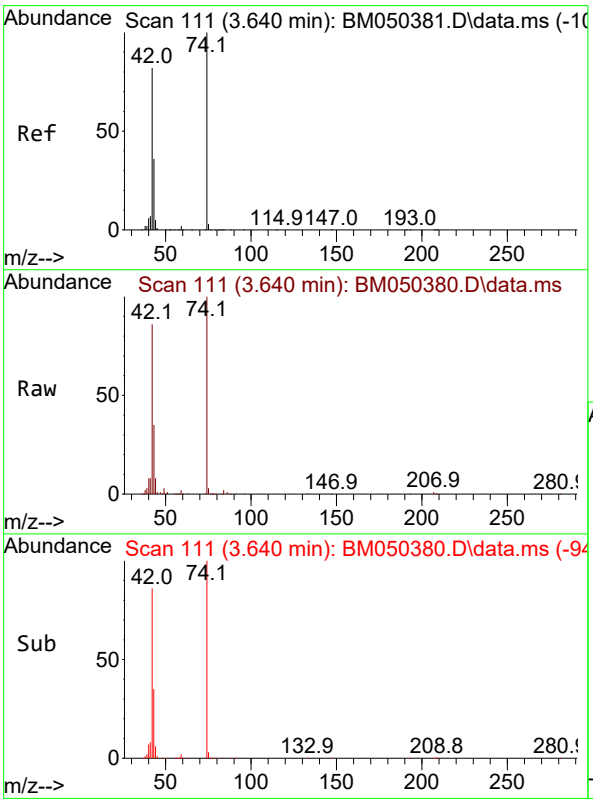
Ion	Ratio	Lower	Upper
79	100		
52	72.9	58.3	87.5
51	38.7	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

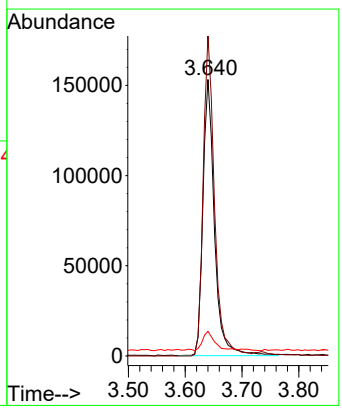
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

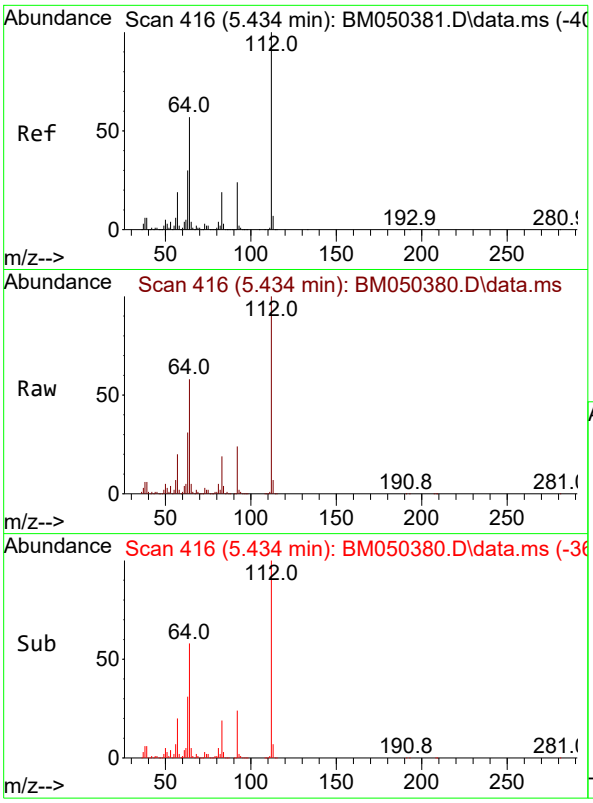


#4
n-Nitrosodimethylamine
Concen: 20.366 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 42 Resp: 215262

Ion	Ratio	Lower	Upper
42	100		
74	115.7	97.5	146.3
44	8.9	5.7	8.5#

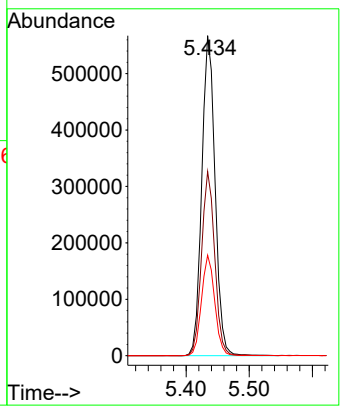




#5
2-Fluorophenol
Concen: 39.560 ng
RT: 5.434 min Scan# 41
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:112 Resp: 83081

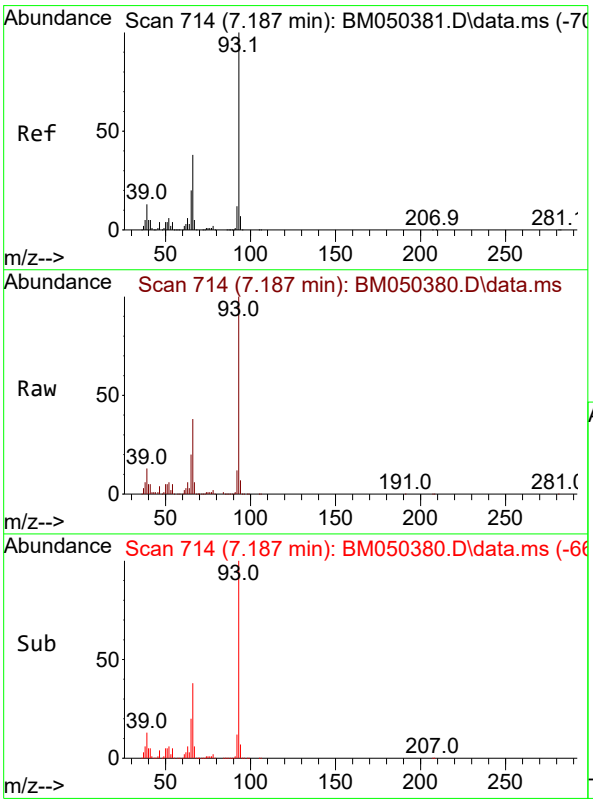
Ion	Ratio	Lower	Upper
112	100		
64	57.5	45.5	68.3
63	31.4	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

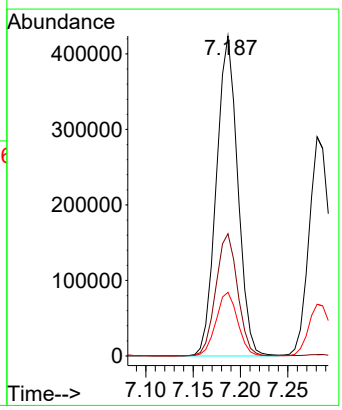
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

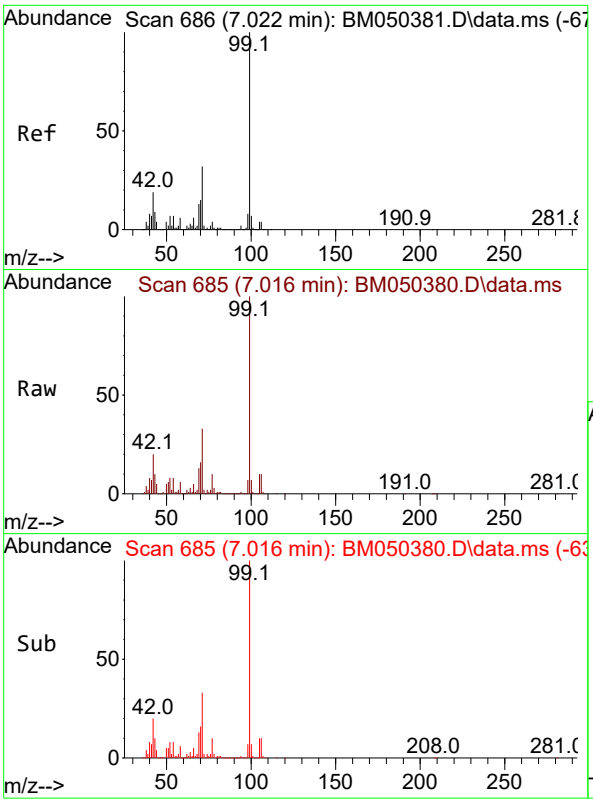


#6
Aniline
Concen: 19.625 ng
RT: 7.187 min Scan# 714
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 93 Resp: 666785

Ion	Ratio	Lower	Upper
93	100		
66	38.2	30.5	45.7
65	19.9	15.9	23.9

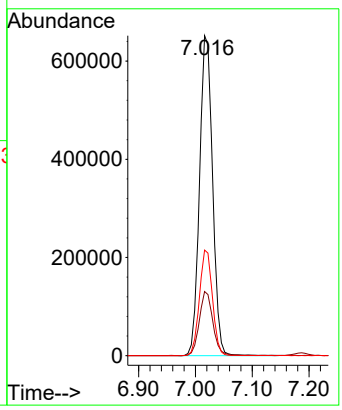




#7
Phenol-d6
Concen: 39.345 ng
RT: 7.016 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 99 Resp: 104164

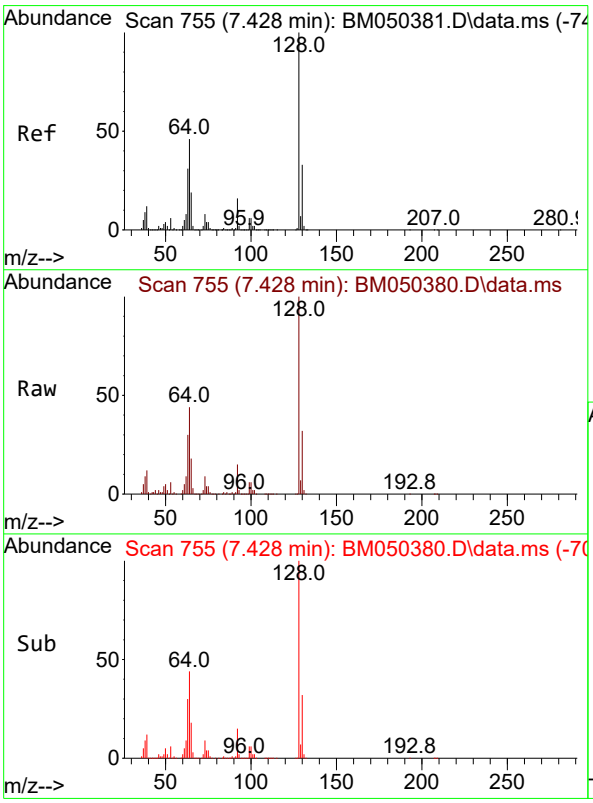
Ion	Ratio	Lower	Upper
99	100		
42	20.1	15.0	22.6
71	33.0	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

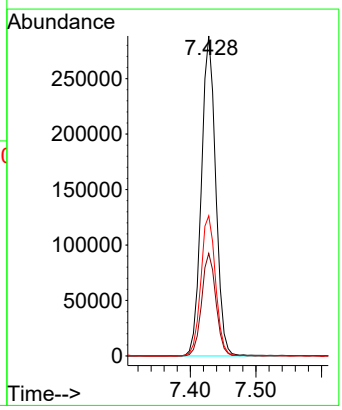
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

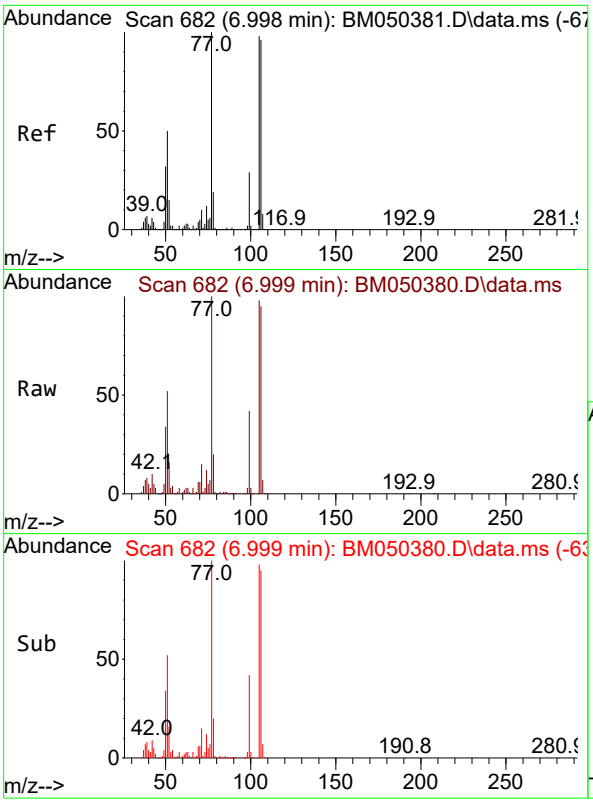


#8
2-Chlorophenol
Concen: 19.898 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:128 Resp: 440657

Ion	Ratio	Lower	Upper
128	100		
130	32.0	13.3	53.3
64	43.8	25.6	65.6

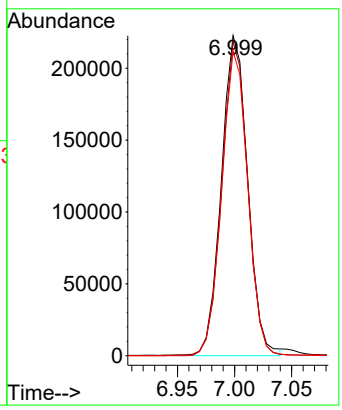




#9
Benzaldehyde
Concen: 22.600 ng m
RT: 6.999 min Scan# 6
Delta R.T. 0.001 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 77 Resp: 35596

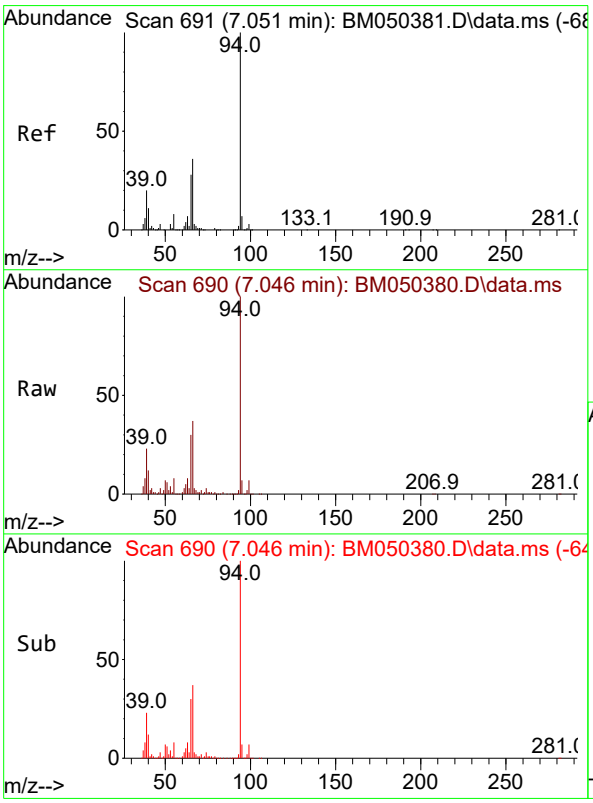
Ion	Ratio	Lower	Upper
77	100		
105	98.1	78.4	118.4
106	95.2	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

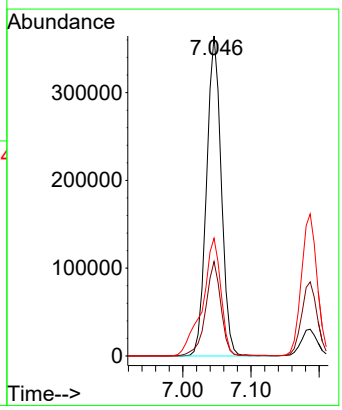
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

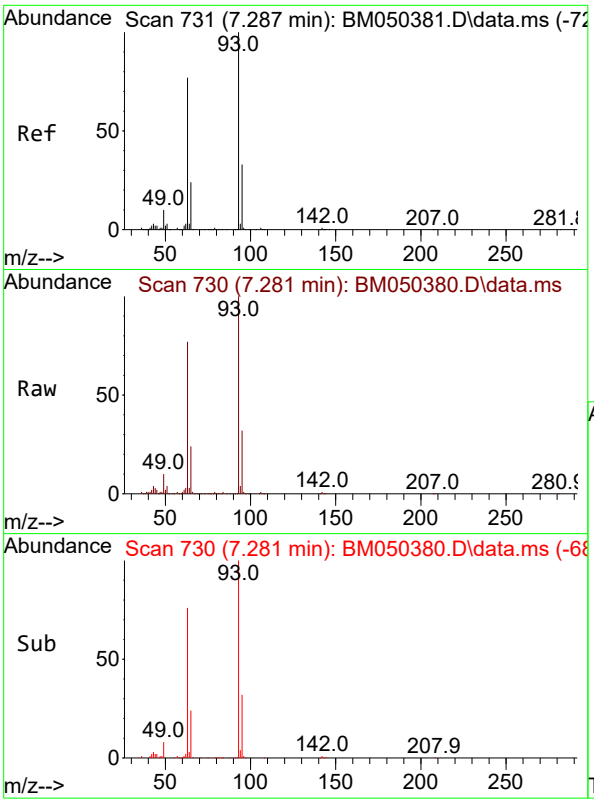


#10
Phenol
Concen: 19.845 ng
RT: 7.046 min Scan# 690
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 94 Resp: 548000

Ion	Ratio	Lower	Upper
94	100		
65	29.5	8.1	48.1
66	36.8	15.8	55.8

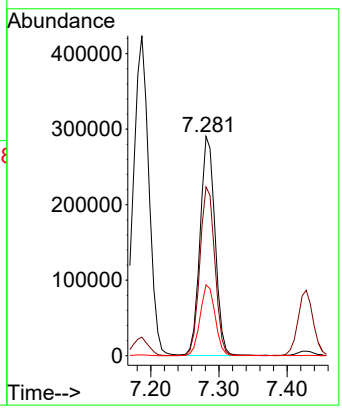




#11
bis(2-Chloroethyl)ether
Concen: 20.000 ng
RT: 7.281 min Scan# 7
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

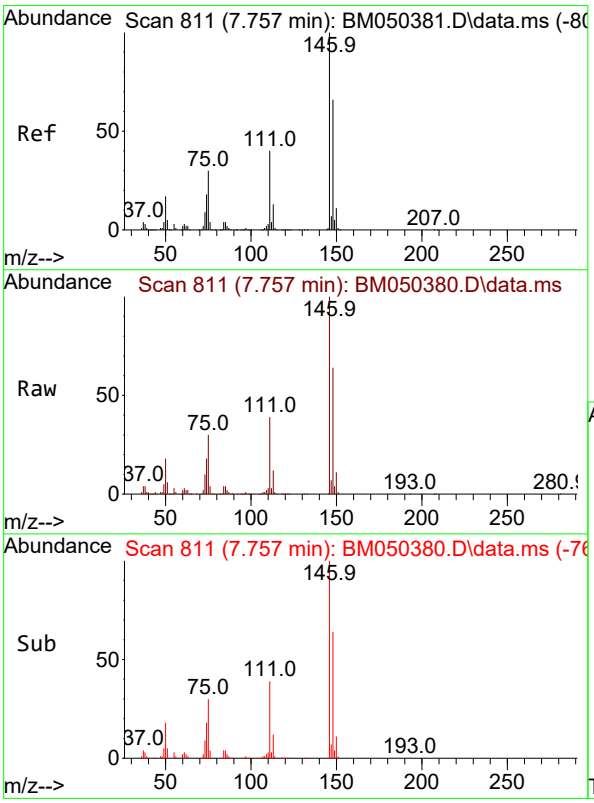
Tgt Ion: 93 Resp: 44229

Ion	Ratio	Lower	Upper
93	100		
63	77.0	56.9	96.9
95	32.3	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

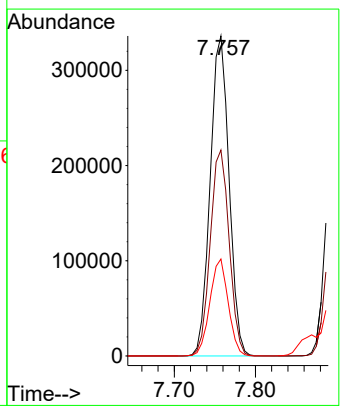
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

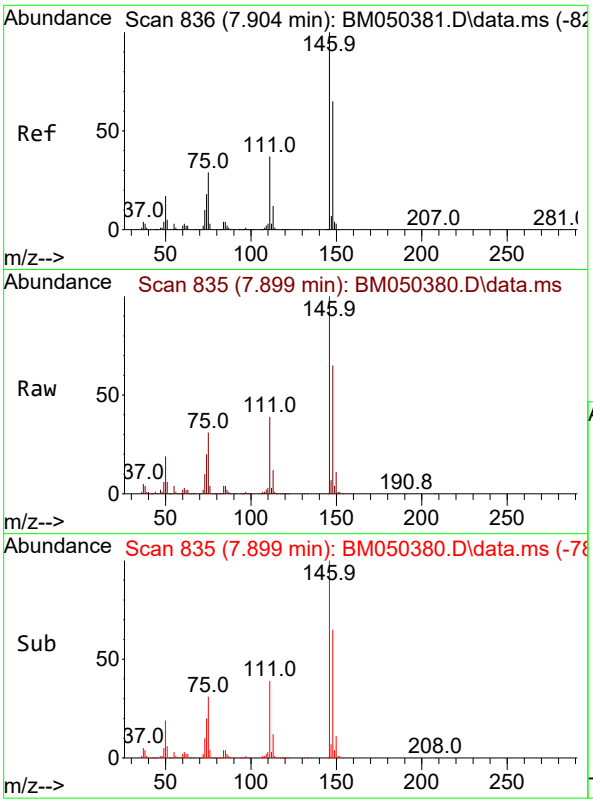


#12
1,3-Dichlorobenzene
Concen: 20.088 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:146 Resp: 540913

Ion	Ratio	Lower	Upper
146	100		
148	64.3	53.2	79.8
75	30.3	23.9	35.9

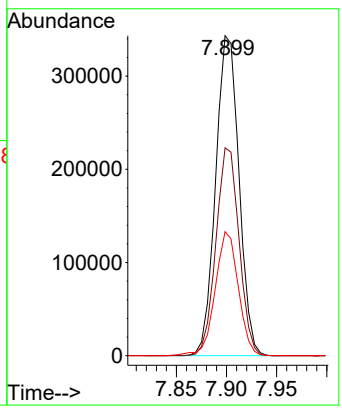




#13
1,4-Dichlorobenzene
Concen: 20.200 ng
RT: 7.899 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:146 Resp: 55541

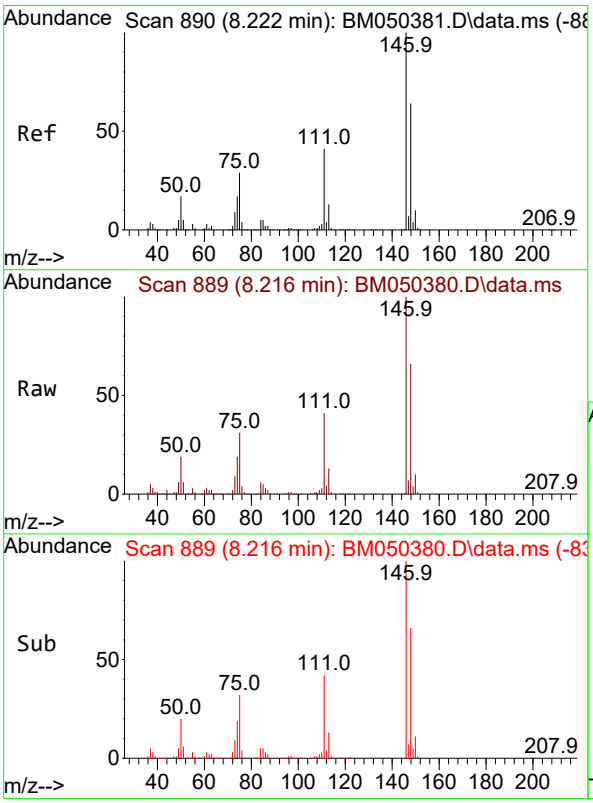
Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
111	38.8	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

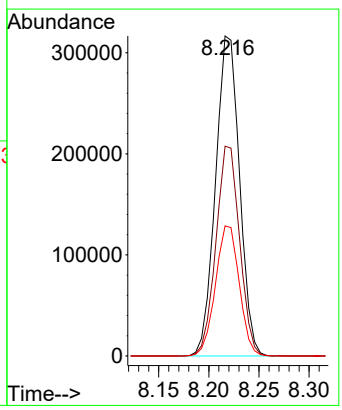
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

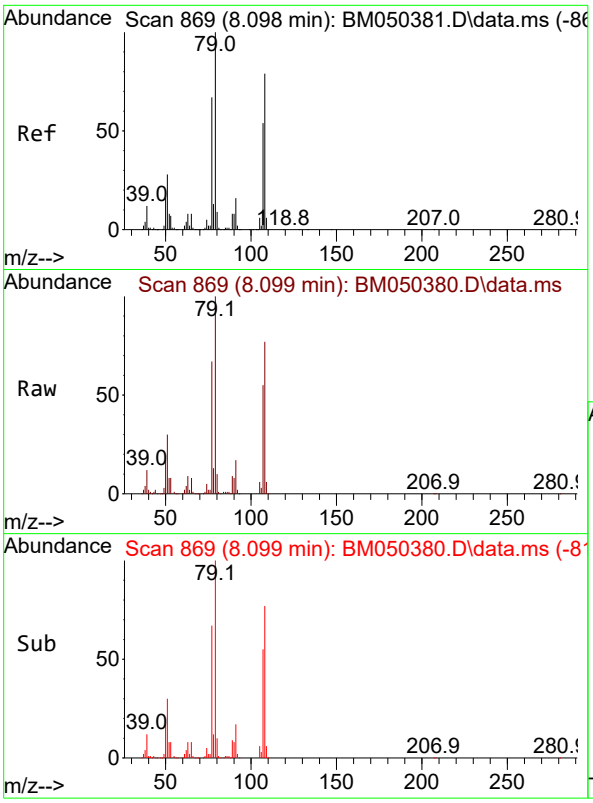


#14
1,2-Dichlorobenzene
Concen: 19.966 ng
RT: 8.216 min Scan# 889
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:146 Resp: 525580

Ion	Ratio	Lower	Upper
146	100		
148	65.5	51.5	77.3
111	40.6	32.6	49.0





#15
Benzyl Alcohol
Concen: 19.292 ng
RT: 8.099 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

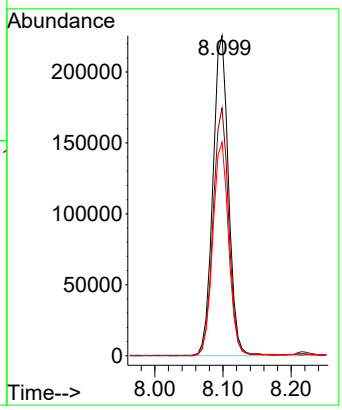
Tgt Ion: 79 Resp: 35986

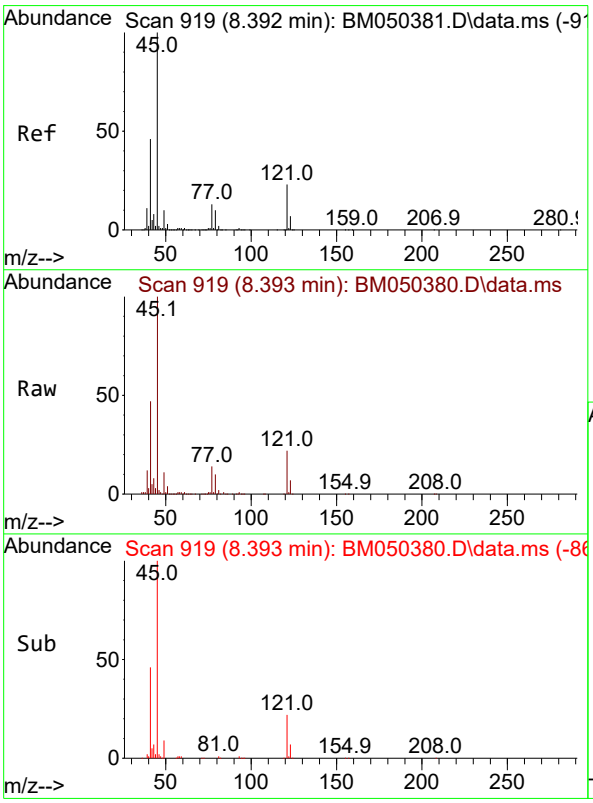
Ion	Ratio	Lower	Upper
79	100		
108	77.3	63.0	94.4
77	66.7	53.4	80.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

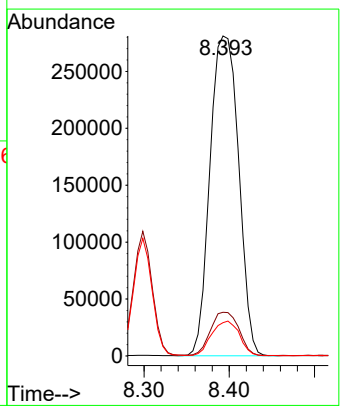


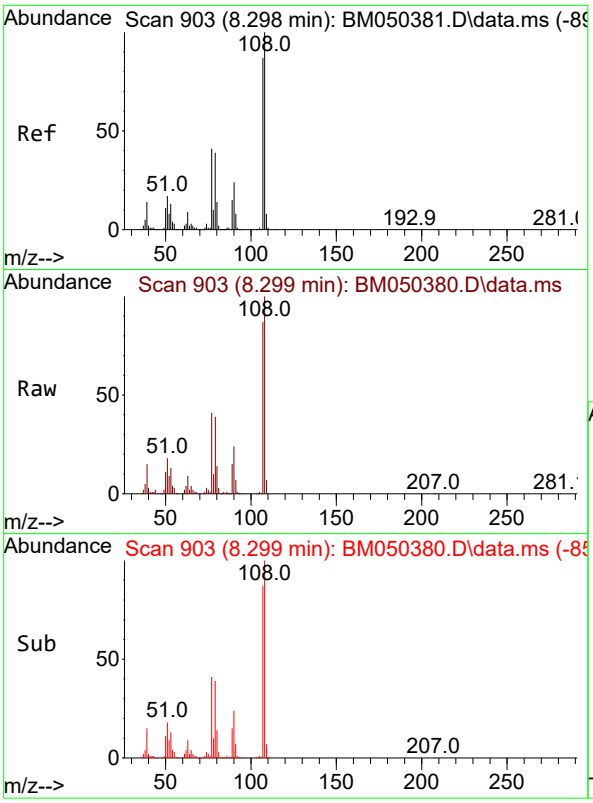


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.176 ng
RT: 8.393 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 45 Resp: 657213

Ion	Ratio	Lower	Upper
45	100		
77	13.7	0.0	33.5
79	10.4	0.0	30.3

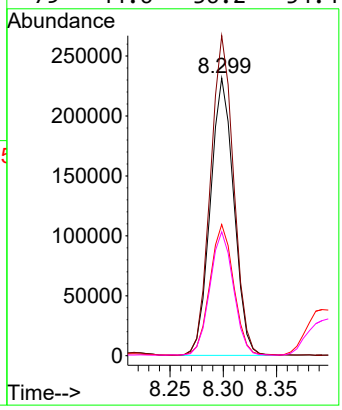




#17
2-Methylphenol
Concen: 19.772 ng
RT: 8.299 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:107 Resp: 35411(

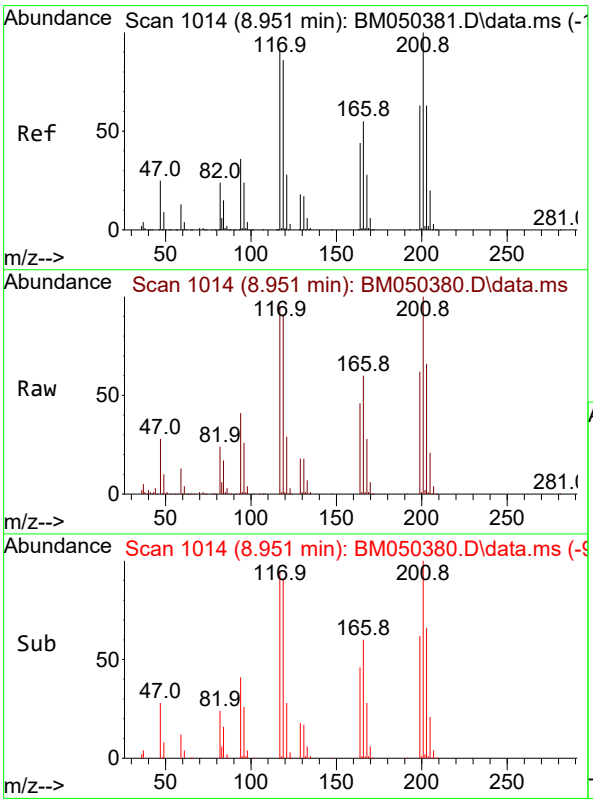
Ion	Ratio	Lower	Upper
107	100		
108	115.2	92.1	138.1
77	47.3	38.2	57.4
79	44.6	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

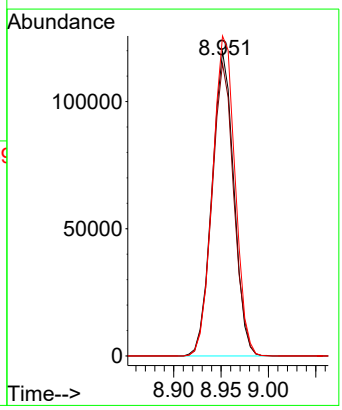
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

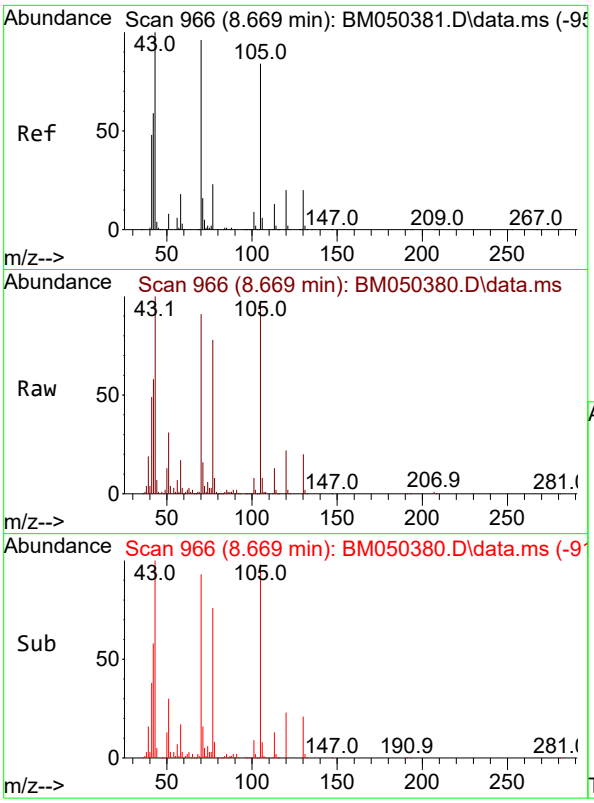


#18
Hexachloroethane
Concen: 19.883 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:117 Resp: 192269

Ion	Ratio	Lower	Upper
117	100		
119	96.1	75.6	113.4
201	105.2	87.9	131.9

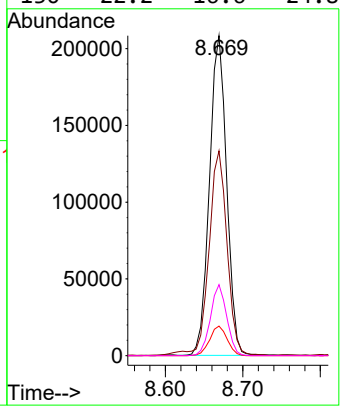




#19
n-Nitroso-di-n-propylamine
Concen: 20.010 ng
RT: 8.669 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 70 Resp: 32093

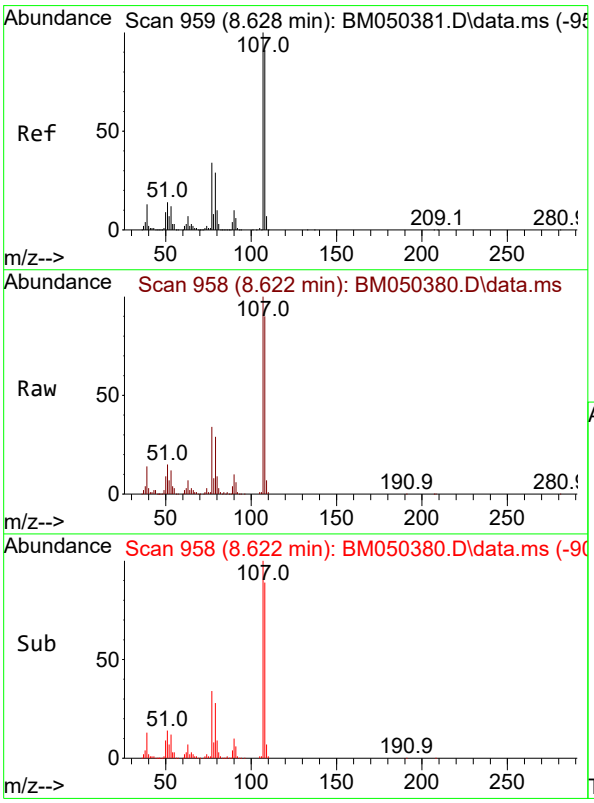
Ion	Ratio	Lower	Upper
70	100		
42	64.0	49.7	74.5
101	9.2	7.7	11.5
130	22.2	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

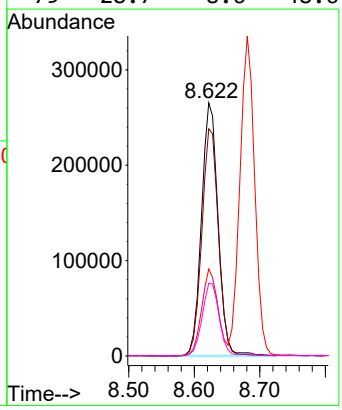
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

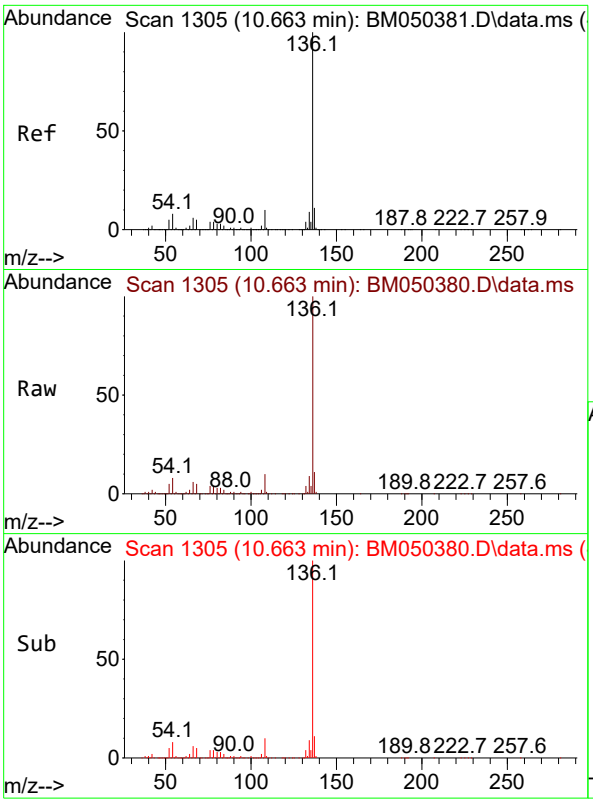


#20
3+4-Methylphenols
Concen: 19.493 ng
RT: 8.622 min Scan# 958
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:107 Resp: 468665

Ion	Ratio	Lower	Upper
107	100		
108	89.7	71.5	111.5
77	34.3	13.7	53.7
79	28.7	8.6	48.6

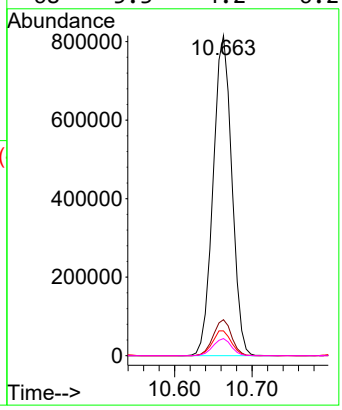




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:136 Resp: 136491

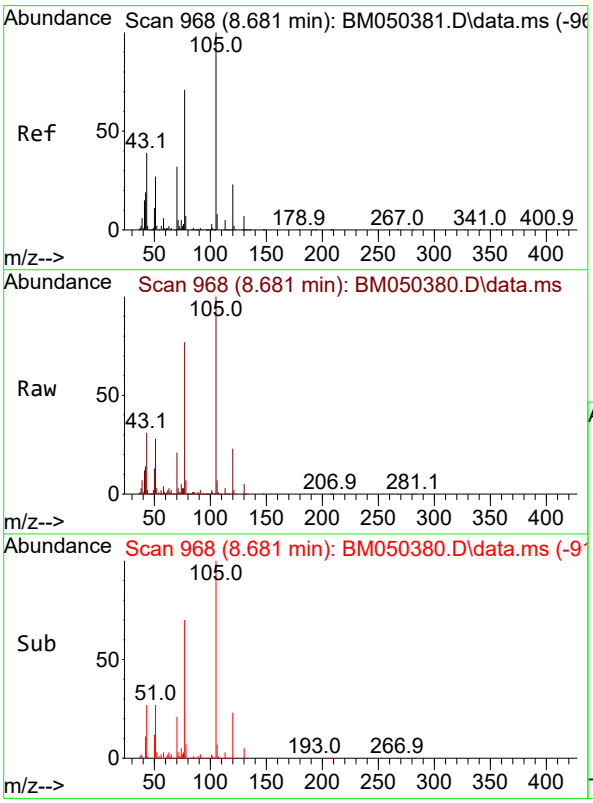
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.7	6.3	9.5
68	5.3	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

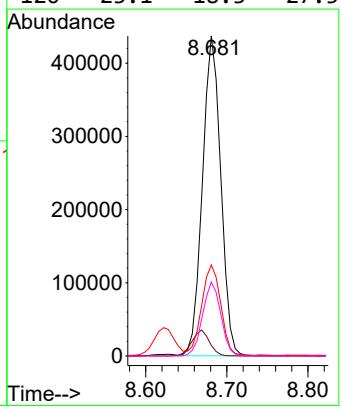
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

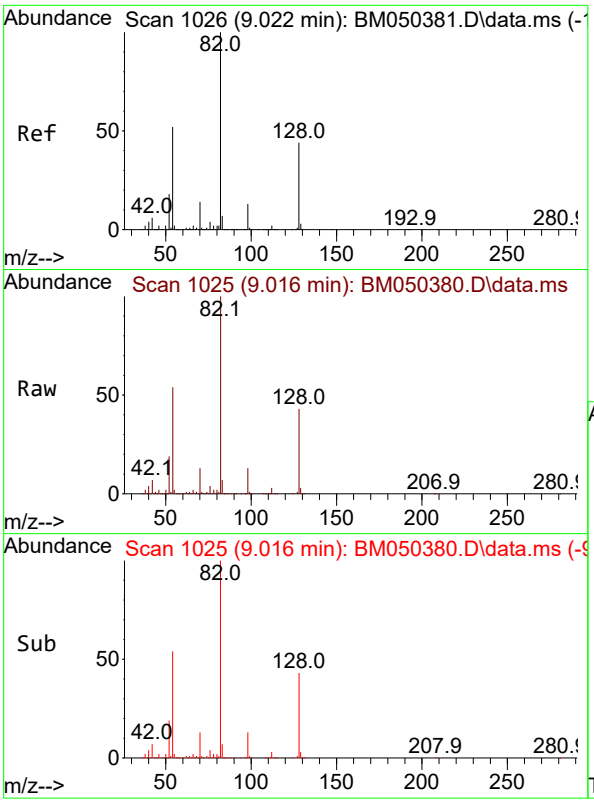


#22
Acetophenone
Concen: 20.046 ng
RT: 8.681 min Scan# 968
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:105 Resp: 684104

Ion	Ratio	Lower	Upper
105	100		
71	3.3	4.4	6.6#
51	28.4	23.0	34.6
120	23.1	18.3	27.5

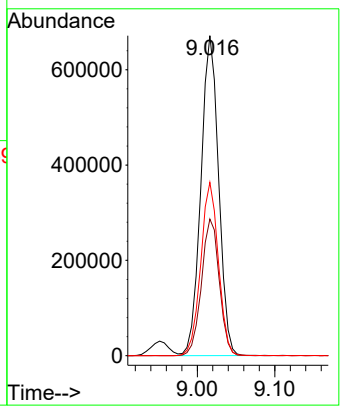




#23
Nitrobenzene-d5
Concen: 39.813 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 82 Resp: 106513

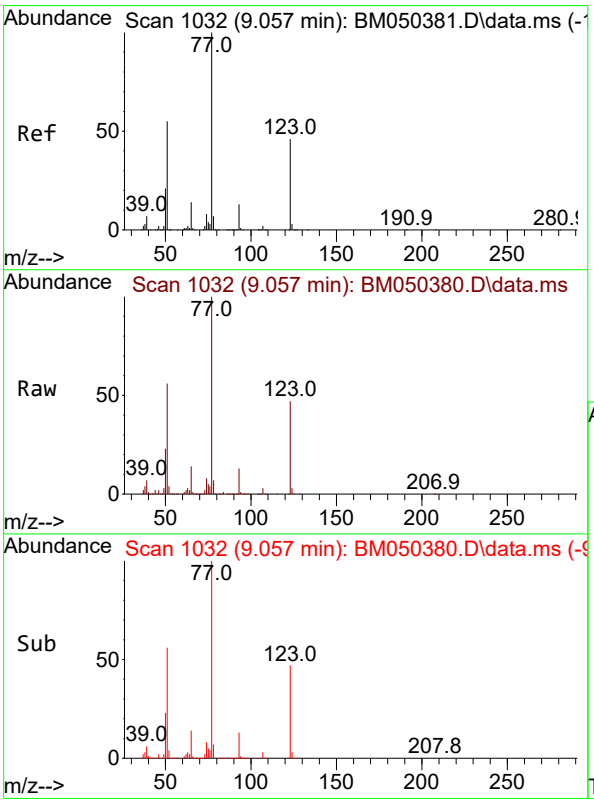
Ion	Ratio	Lower	Upper
82	100		
128	42.7	35.2	52.8
54	54.1	41.5	62.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

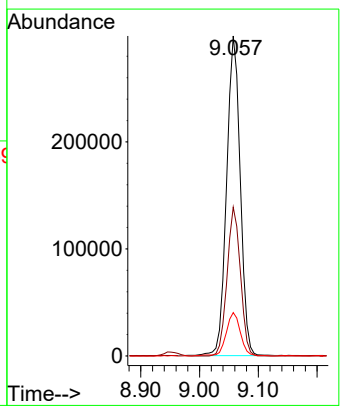
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

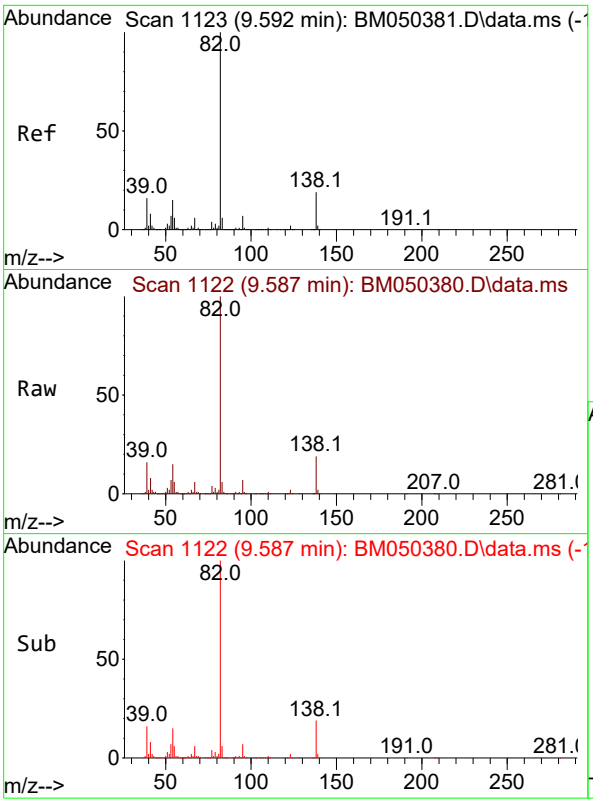


#24
Nitrobenzene
Concen: 20.179 ng
RT: 9.057 min Scan# 1032
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 77 Resp: 481755

Ion	Ratio	Lower	Upper
77	100		
123	46.5	37.0	55.6
65	13.5	11.0	16.4

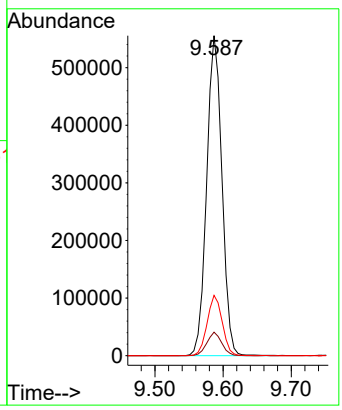




#25
Isophorone
Concen: 19.946 ng
RT: 9.587 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 82 Resp: 86591

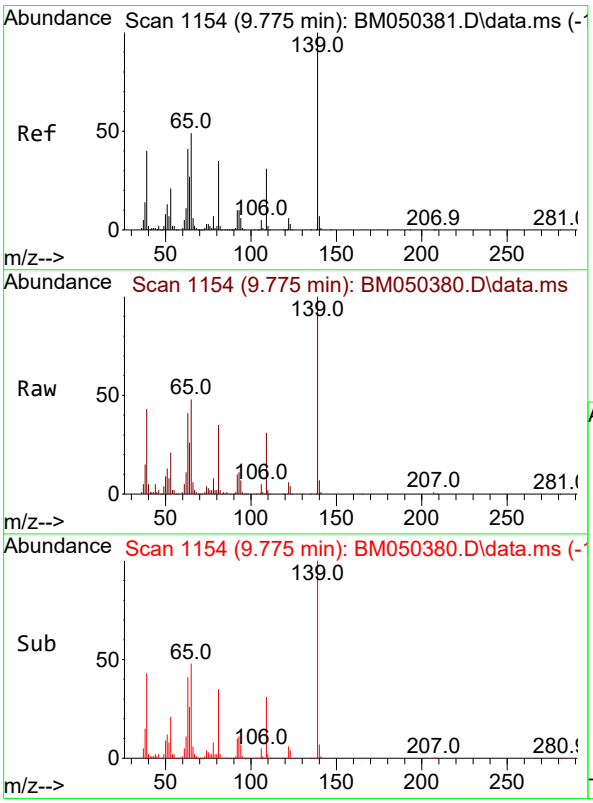
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.6	8.4
138	18.8	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

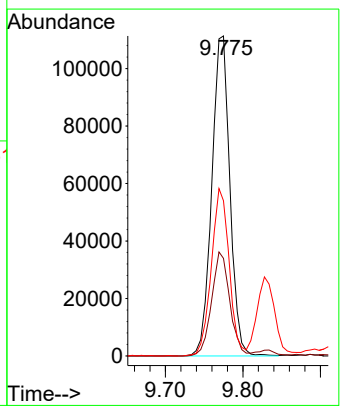
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

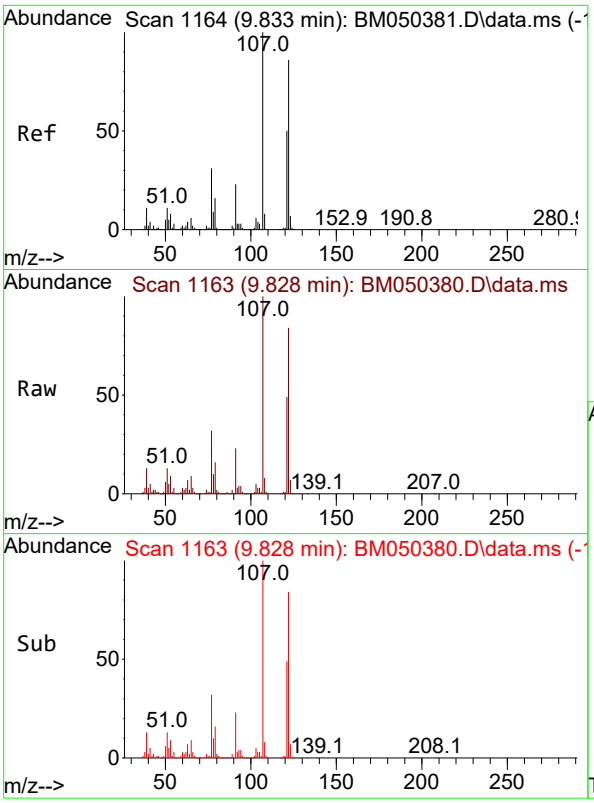


#26
2-Nitrophenol
Concen: 18.532 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:139 Resp: 180315

Ion	Ratio	Lower	Upper
139	100		
109	30.5	24.6	36.8
65	48.5	39.2	58.8

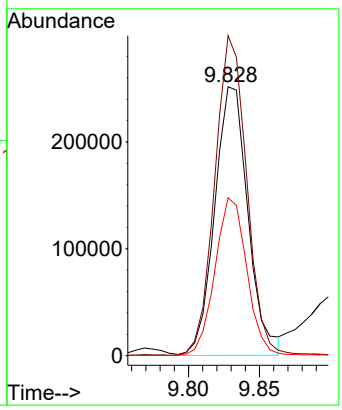




#27
2,4-Dimethylphenol
Concen: 19.828 ng
RT: 9.828 min Scan# 11
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:122 Resp: 41052

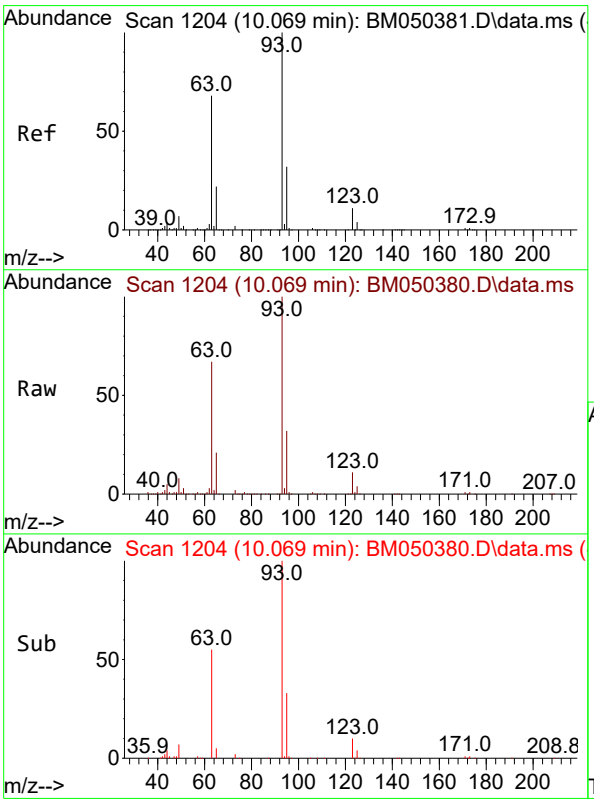
Ion	Ratio	Lower	Upper
122	100		
107	119.0	93.0	139.6
121	58.7	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

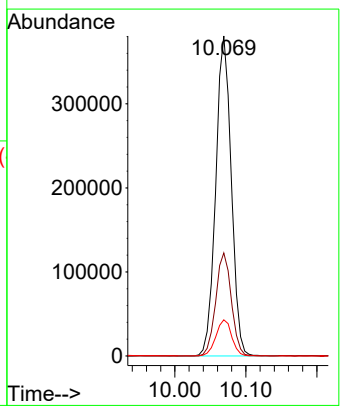
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

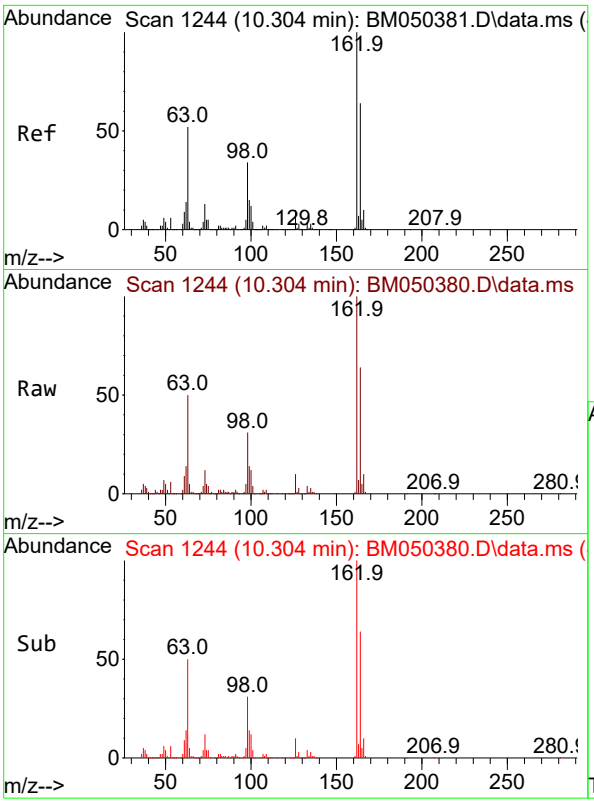


#28
bis(2-Chloroethoxy)methane
Concen: 20.023 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 93 Resp: 575979

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.6
123	11.3	9.1	13.7

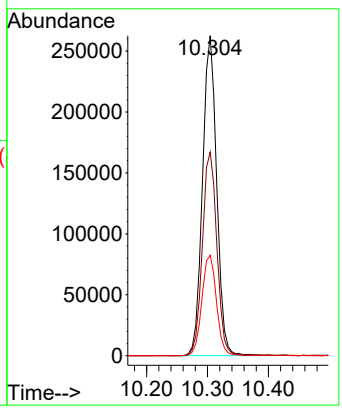




#29
2,4-Dichlorophenol
Concen: 19.970 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

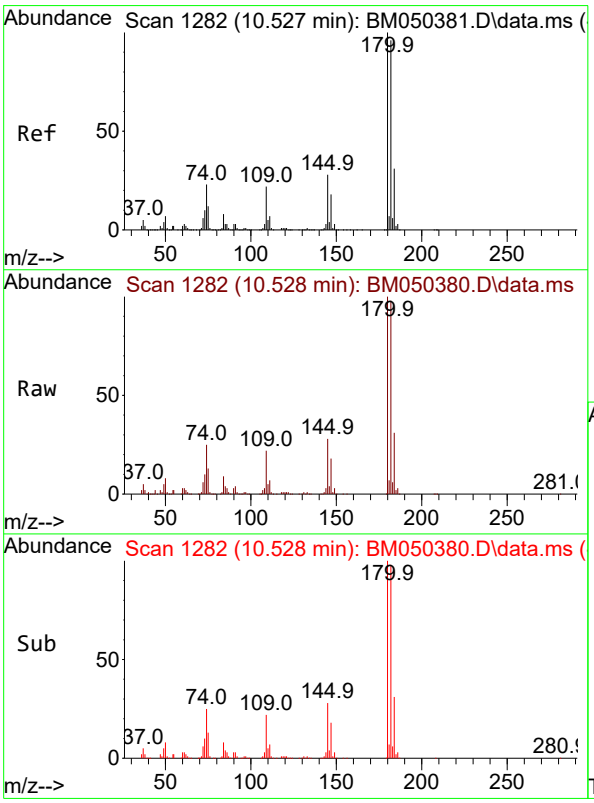
Tgt Ion:162 Resp: 42477

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.7	83.7
98	31.4	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

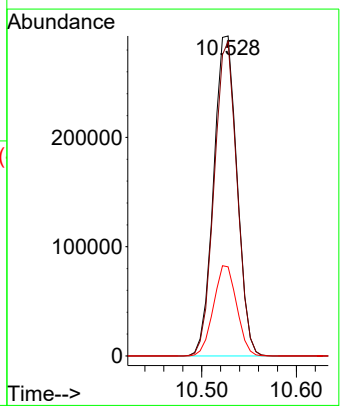
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

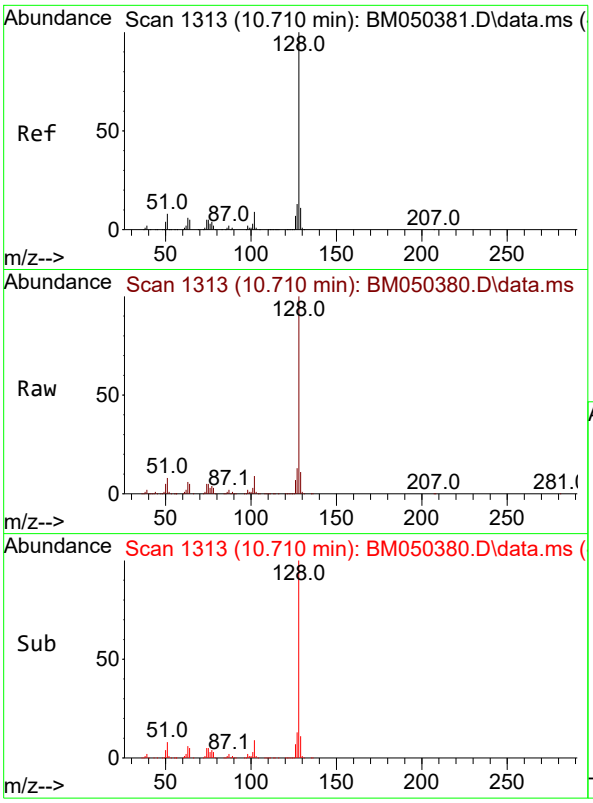


#30
1,2,4-Trichlorobenzene
Concen: 19.769 ng
RT: 10.528 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:180 Resp: 503042

Ion	Ratio	Lower	Upper
180	100		
182	98.3	76.8	115.2
145	27.9	22.6	33.8

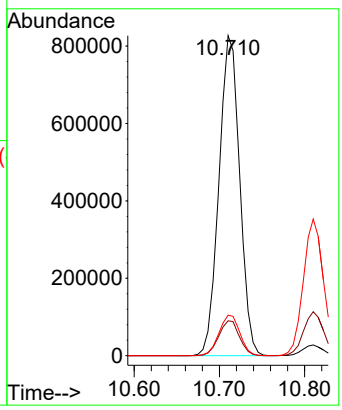




#31
Naphthalene
Concen: 20.160 ng
RT: 10.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:128 Resp: 139768

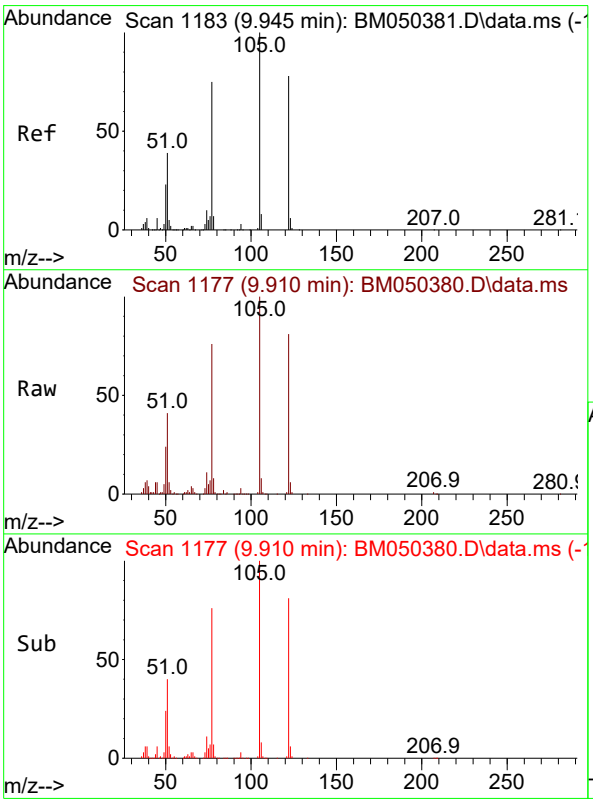
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.7	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

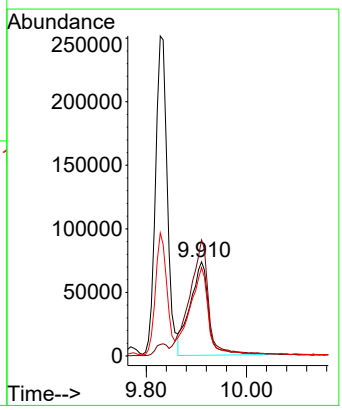
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

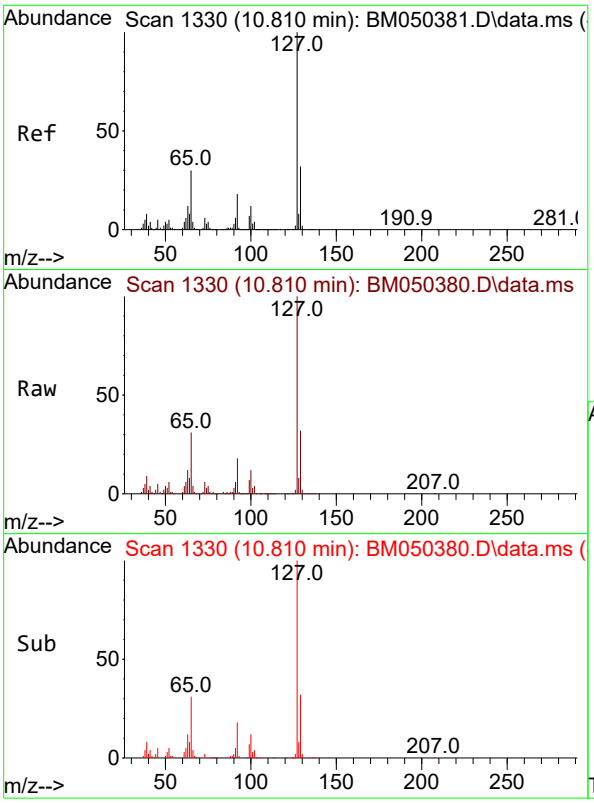


#32
Benzoic acid
Concen: 19.011 ng
RT: 9.910 min Scan# 1177
Delta R.T. -0.035 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:122 Resp: 189237

Ion	Ratio	Lower	Upper
122	100		
105	123.3	104.0	144.0
77	93.9	73.8	113.8

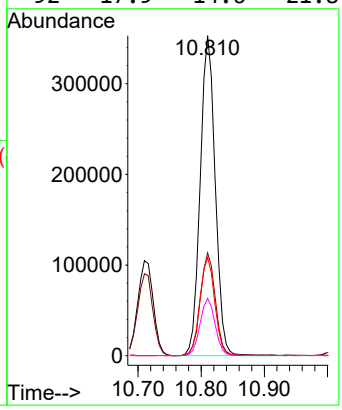




#33
4-Chloroaniline
Concen: 19.867 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:127 Resp: 58227

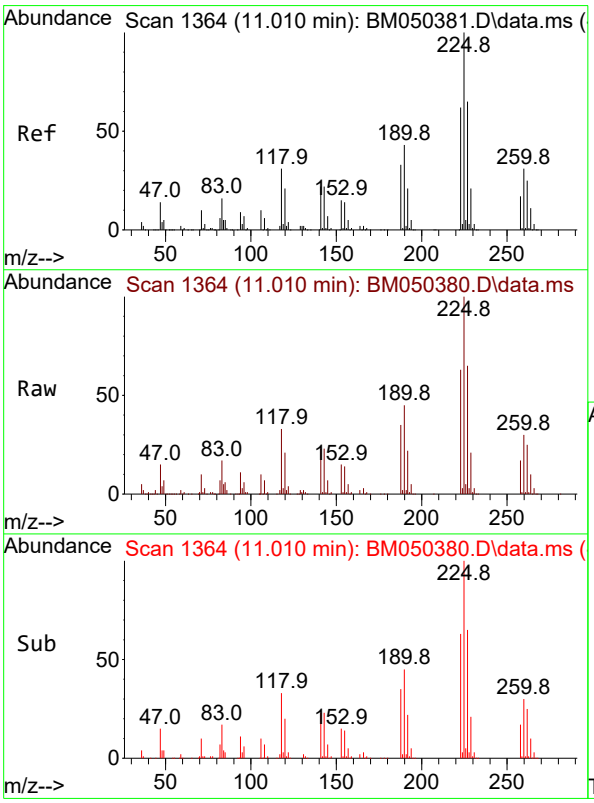
Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.5	38.3
65	30.7	23.9	35.9
92	17.9	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

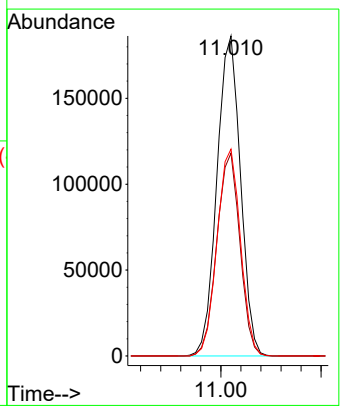
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

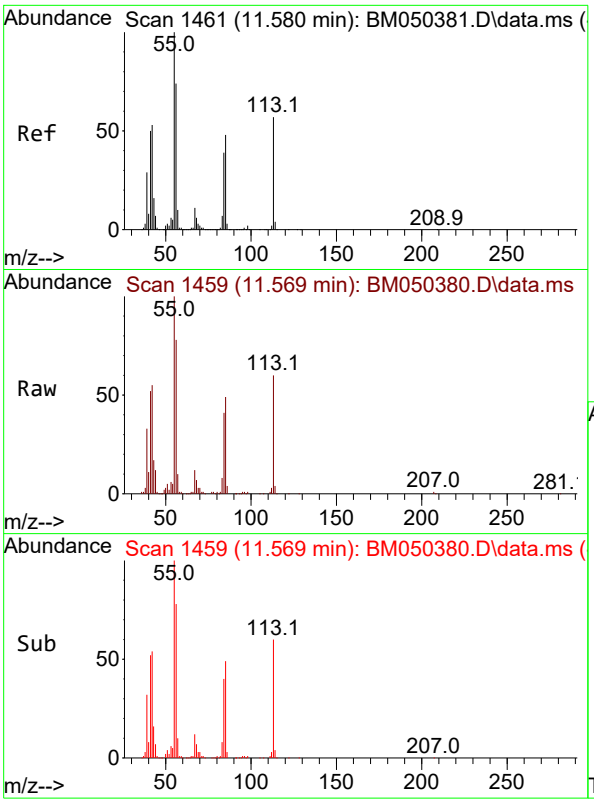


#34
Hexachlorobutadiene
Concen: 19.552 ng
RT: 11.010 min Scan# 1364
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:225 Resp: 303657

Ion	Ratio	Lower	Upper
225	100		
223	63.4	49.7	74.5
227	64.7	52.1	78.1





#35
Caprolactam
Concen: 18.951 ng
RT: 11.569 min Scan# 14
Delta R.T. -0.011 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

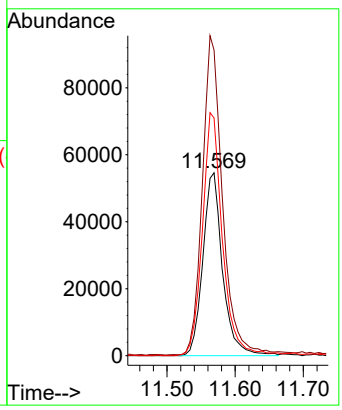
Tgt Ion:113 Resp: 11004

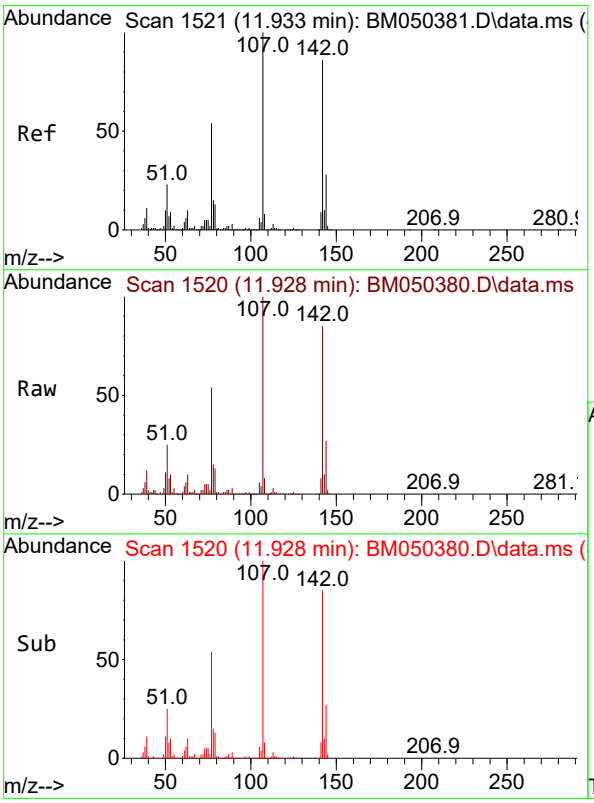
Ion	Ratio	Lower	Upper
113	100		
55	167.1	157.2	197.2
56	130.0	111.7	151.7

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

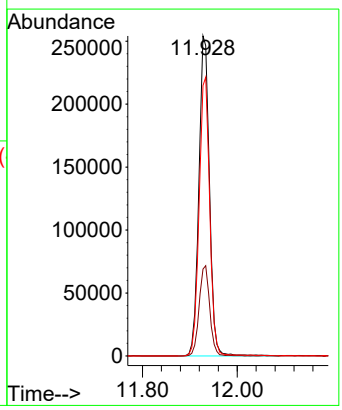


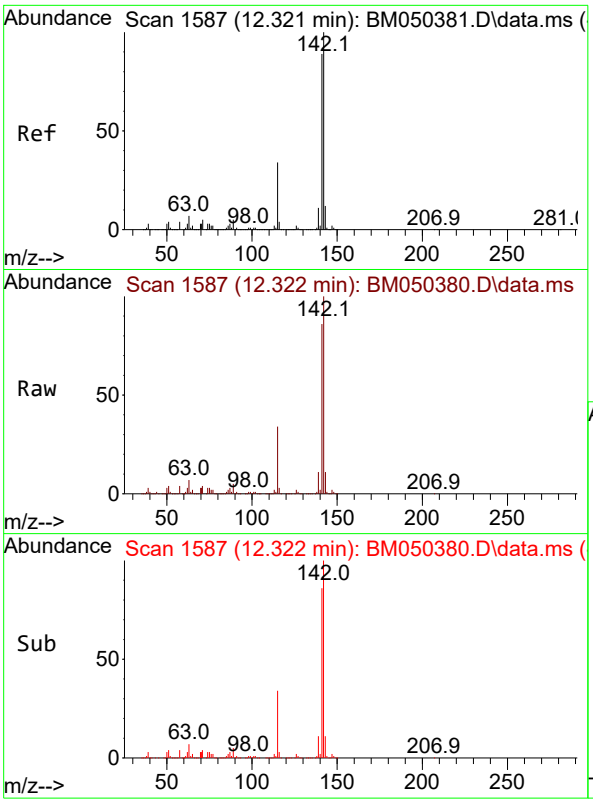


#36
4-Chloro-3-methylphenol
Concen: 19.804 ng
RT: 11.928 min Scan# 1520
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:107 Resp: 393366

Ion	Ratio	Lower	Upper
107	100		
144	27.2	22.2	33.4
142	84.5	68.7	103.1

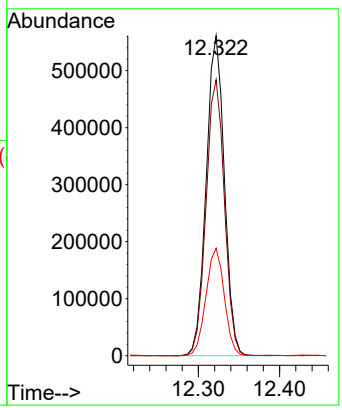




#37
2-Methylnaphthalene
Concen: 19.906 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:142 Resp: 87136

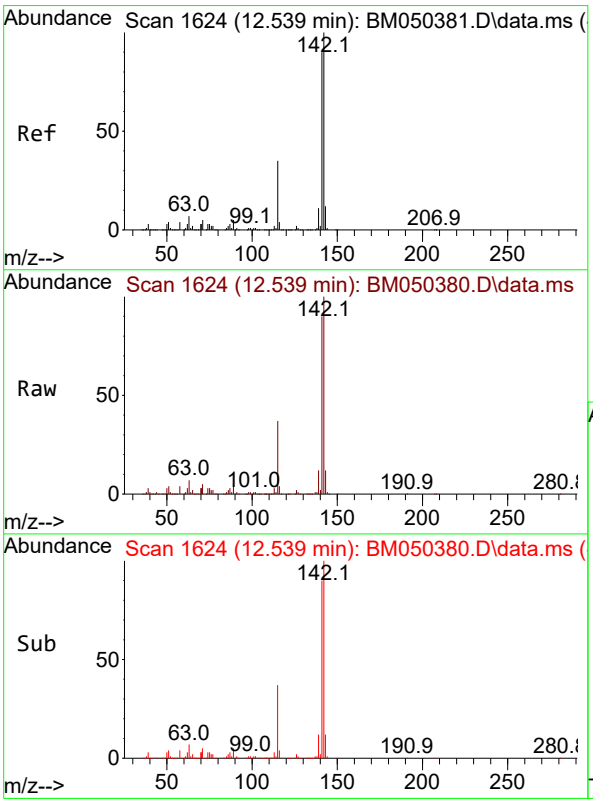
Ion	Ratio	Lower	Upper
142	100		
141	86.3	70.8	106.2
115	33.6	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

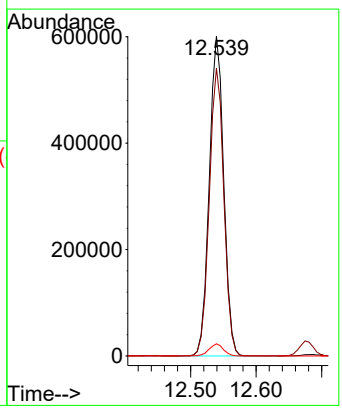
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

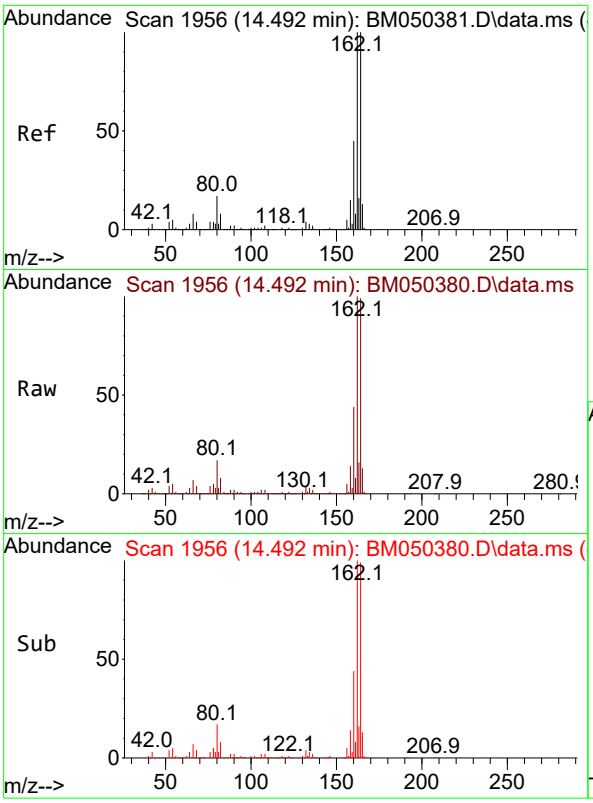


#38
1-Methylnaphthalene
Concen: 19.872 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:142 Resp: 920592

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.9	107.9
116	3.8	3.0	4.6

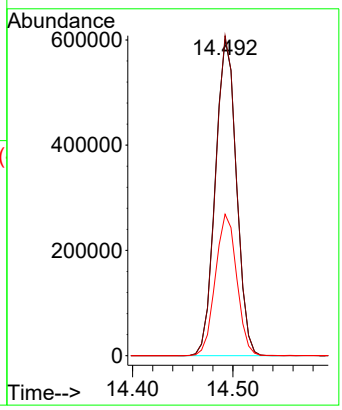




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:164 Resp: 87917

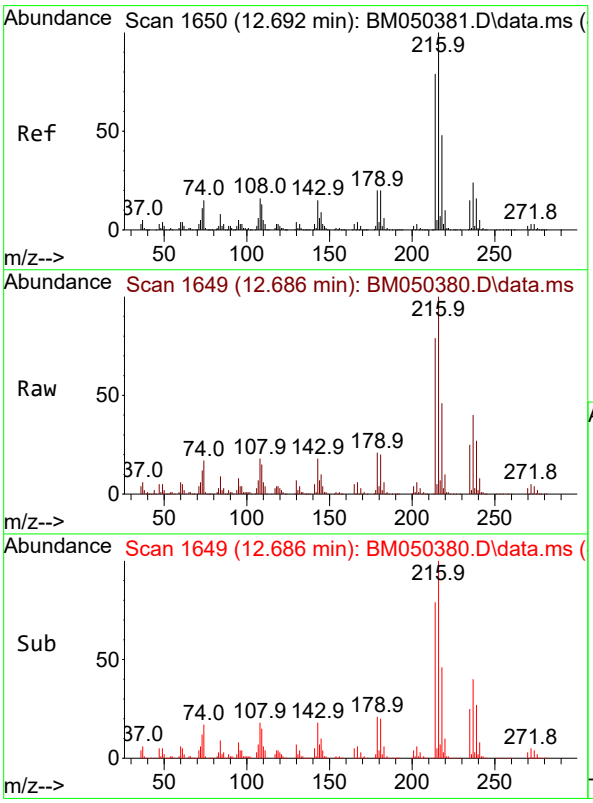
Ion	Ratio	Lower	Upper
164	100		
162	101.2	79.9	119.9
160	44.7	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

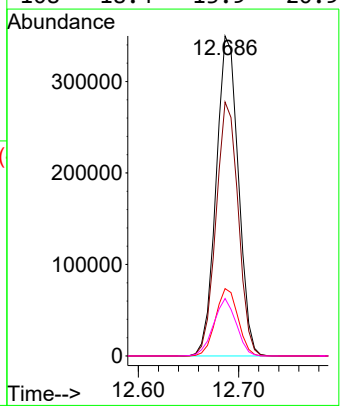
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

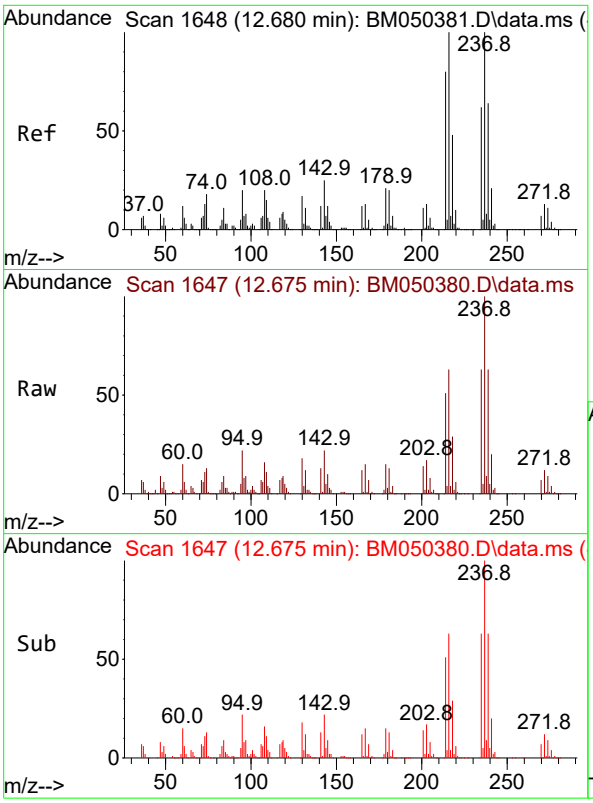


#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.205 ng
RT: 12.686 min Scan# 1649
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:216 Resp: 536934

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.3	94.9
179	21.3	16.4	24.6
108	18.4	13.9	20.9

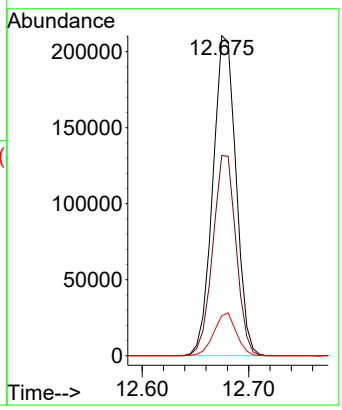




#41
Hexachlorocyclopentadiene
Concen: 17.766 ng
RT: 12.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:237 Resp: 31750

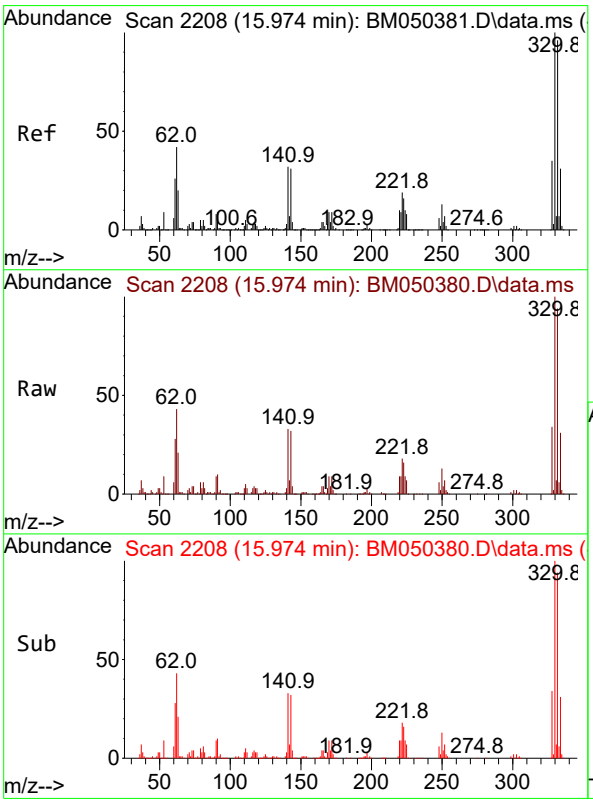
Ion	Ratio	Lower	Upper
237	100		
235	62.6	42.3	82.3
272	12.5	0.0	33.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

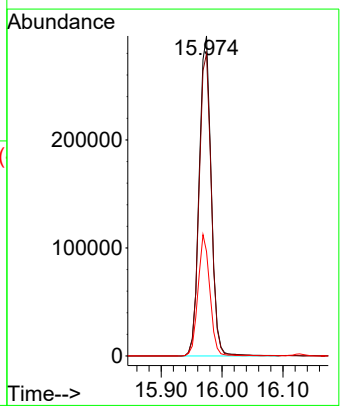
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

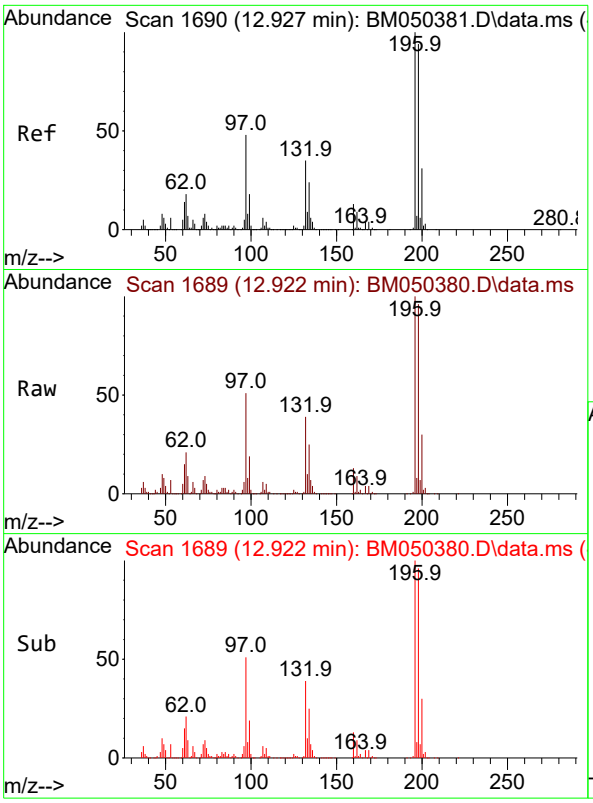


#42
2,4,6-Tribromophenol
Concen: 37.846 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:330 Resp: 404270

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.9	115.3
141	37.3	27.4	41.0





#43
2,4,6-Trichlorophenol
Concen: 19.263 ng
RT: 12.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

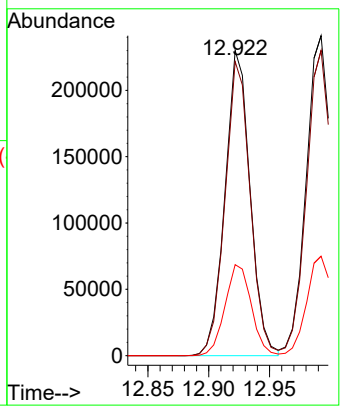
Tgt Ion:196 Resp: 33150

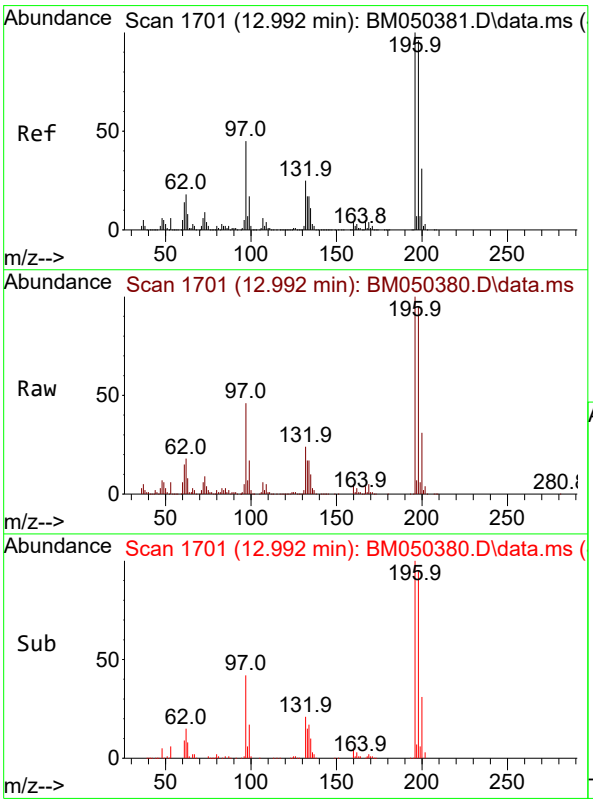
Ion	Ratio	Lower	Upper
196	100		
198	96.4	75.1	112.7
200	29.8	24.6	37.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

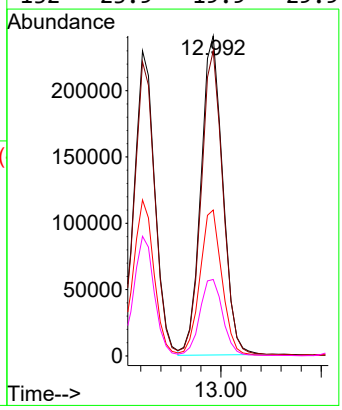


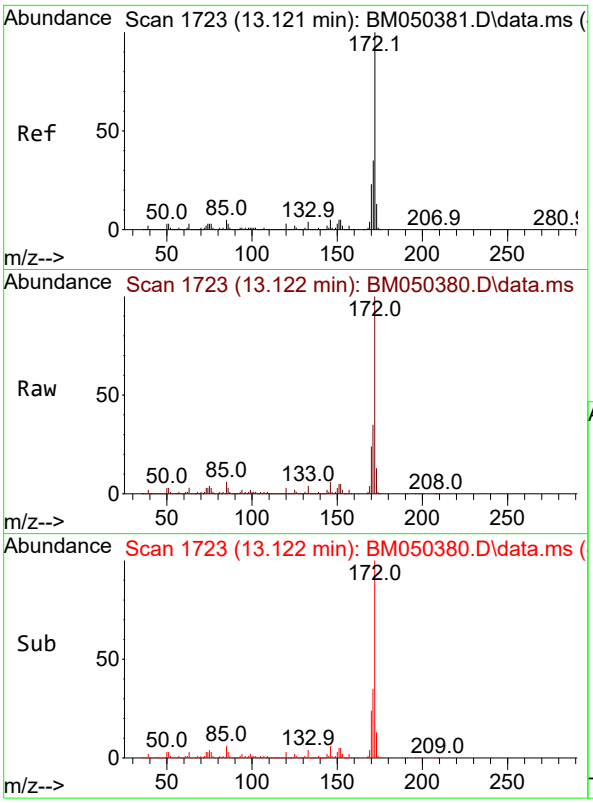


#44
2,4,5-Trichlorophenol
Concen: 19.408 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:196 Resp: 364770

Ion	Ratio	Lower	Upper
196	100		
198	95.4	77.2	115.8
97	45.6	36.2	54.4
132	23.9	19.9	29.9

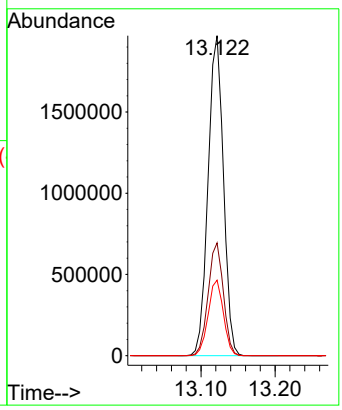




#45
2-Fluorobiphenyl
Concen: 39.780 ng
RT: 13.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:172 Resp: 283199

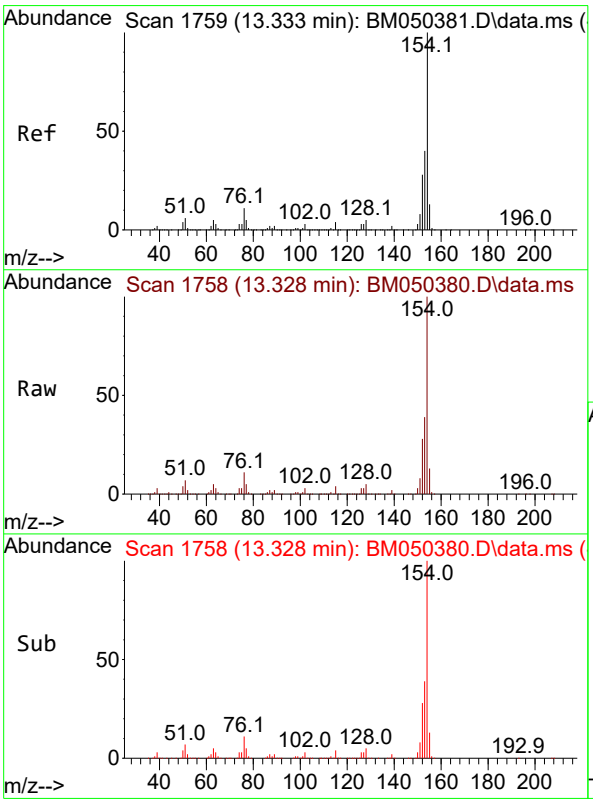
Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.7	41.5
170	23.6	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

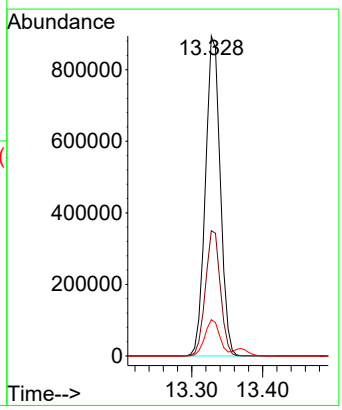
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

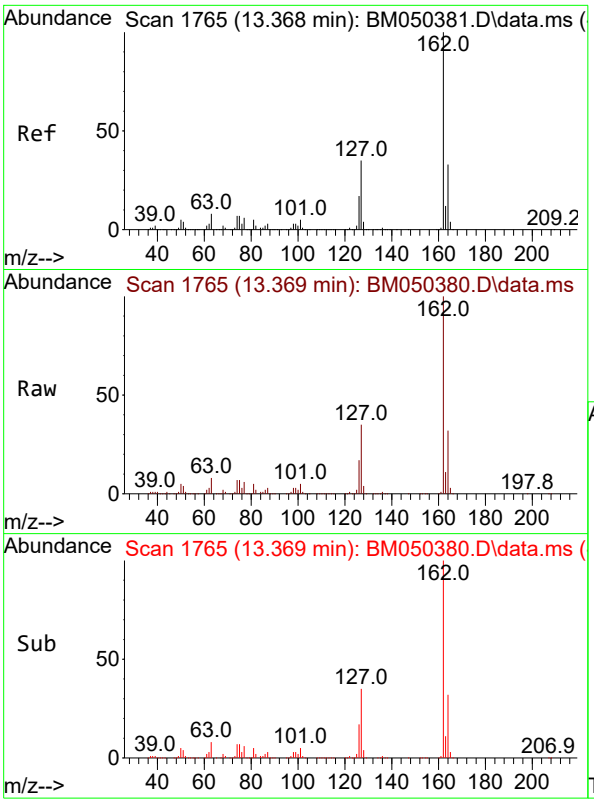


#46
1,1'-Biphenyl
Concen: 19.936 ng
RT: 13.328 min Scan# 1758
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:154 Resp: 1300397

Ion	Ratio	Lower	Upper
154	100		
153	39.2	19.7	59.7
76	11.4	0.0	30.9

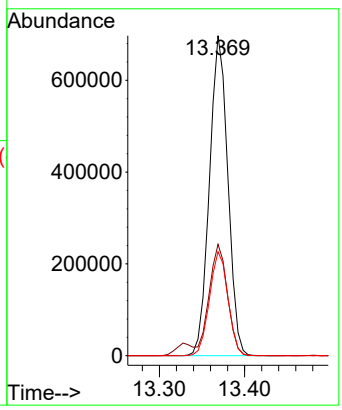




#47
2-Chloronaphthalene
Concen: 20.066 ng
RT: 13.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:162 Resp: 104359

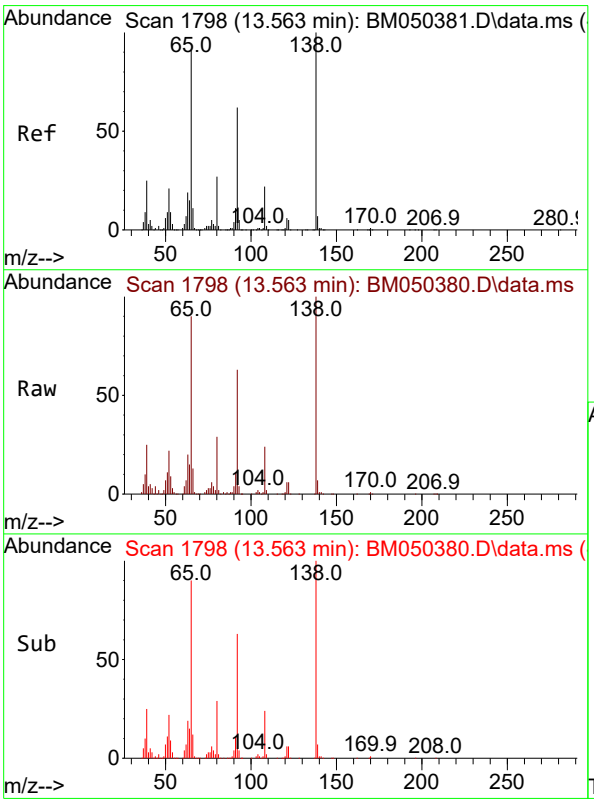
Ion	Ratio	Lower	Upper
162	100		
127	34.8	28.3	42.5
164	32.5	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

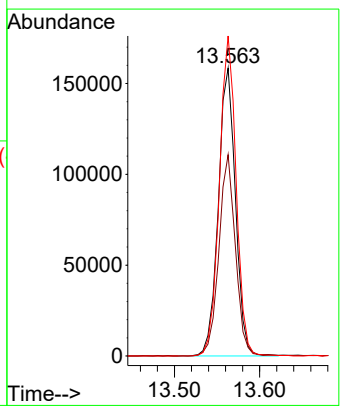
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

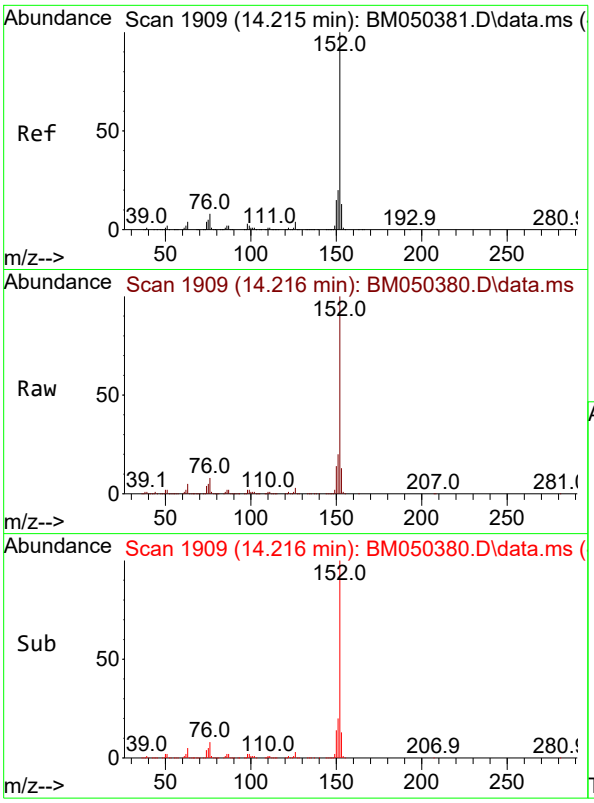


#48
2-Nitroaniline
Concen: 19.132 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion: 65 Resp: 222094

Ion	Ratio	Lower	Upper
65	100		
92	69.9	54.3	81.5
138	111.1	87.8	131.6

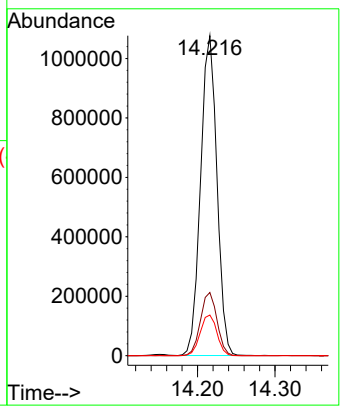




#49
Acenaphthylene
Concen: 20.078 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

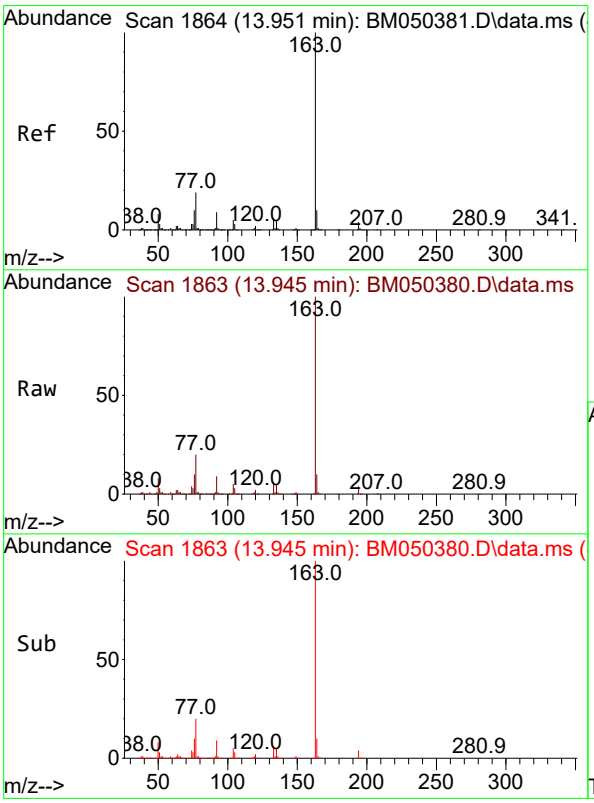
Tgt Ion:152 Resp: 157805

Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.3	24.5
153	12.7	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

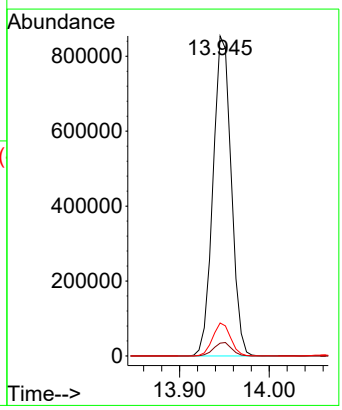
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

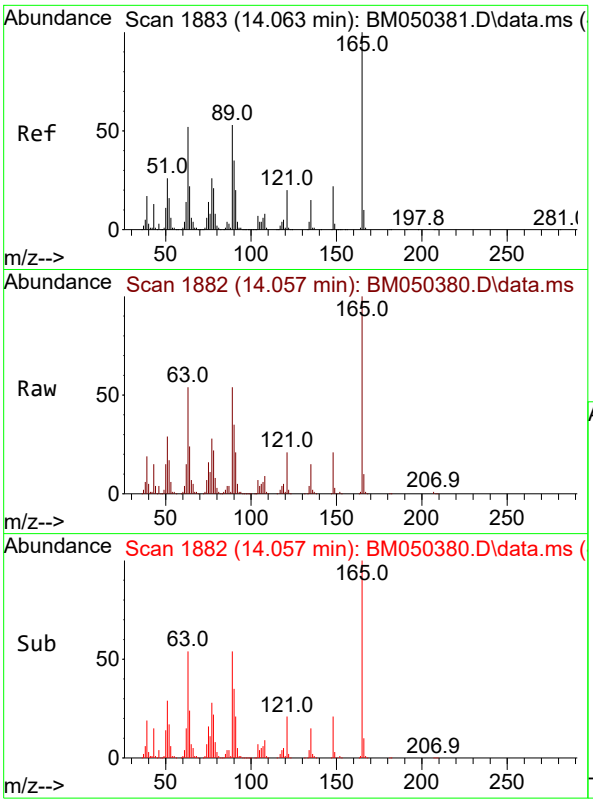


#50
Dimethylphthalate
Concen: 19.873 ng
RT: 13.945 min Scan# 1863
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:163 Resp: 1202901

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.4	5.2
164	10.3	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 19.889 ng
RT: 14.057 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

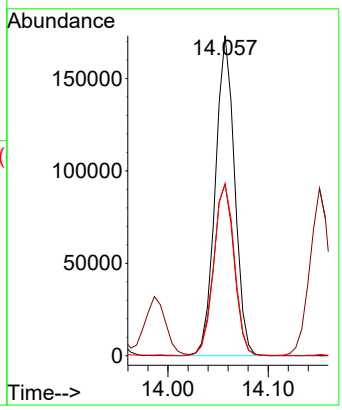
Tgt Ion:165 Resp: 23114

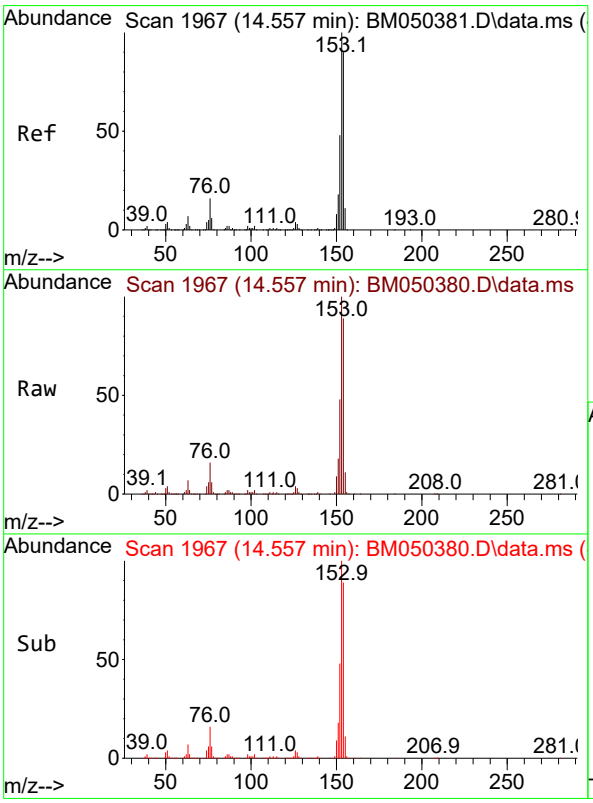
Ion	Ratio	Lower	Upper
165	100		
63	53.6	42.4	63.6
89	53.7	42.2	63.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

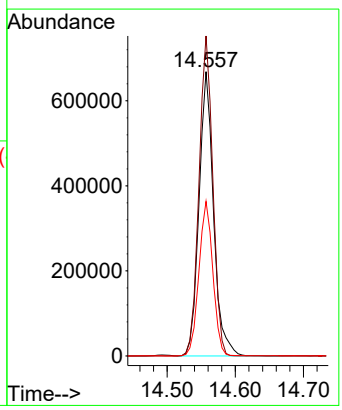


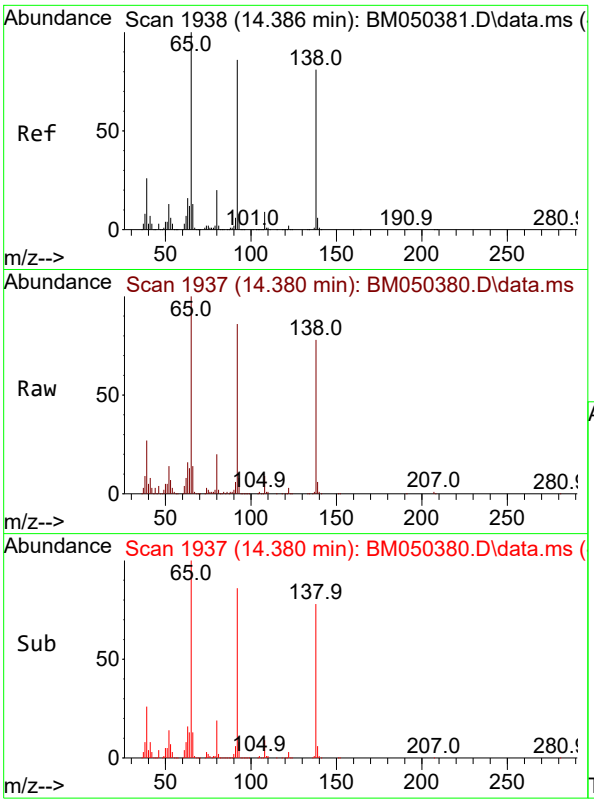


#52
Acenaphthene
Concen: 19.816 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:154 Resp: 990178

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	54.3	42.6	64.0





#53
3-Nitroaniline
Concen: 19.779 ng
RT: 14.380 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

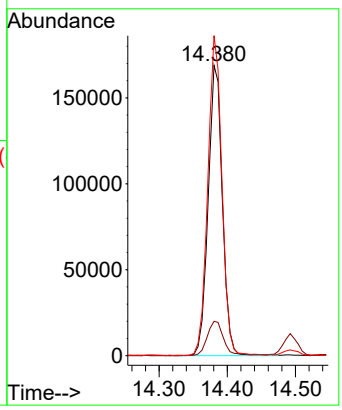
Tgt Ion:138 Resp: 24446

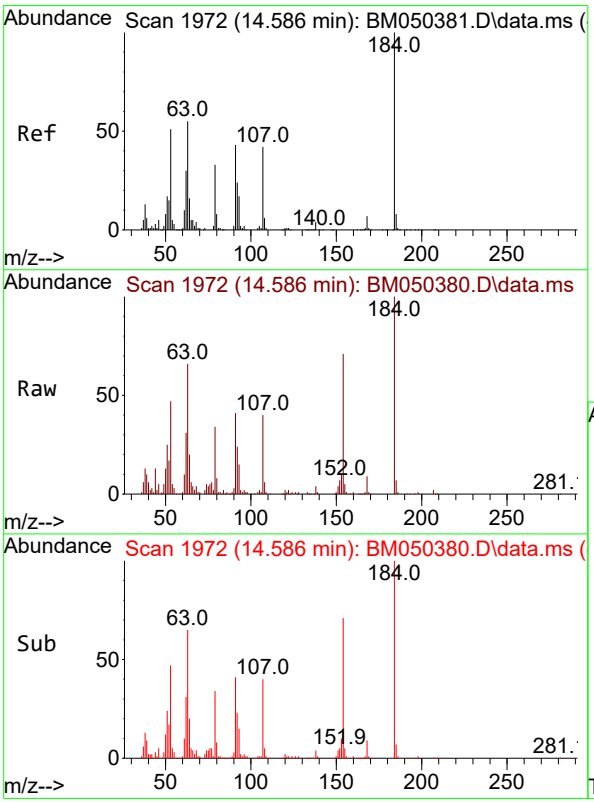
Ion	Ratio	Lower	Upper
138	100		
108	11.8	8.8	13.2
92	110.3	85.0	127.6

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

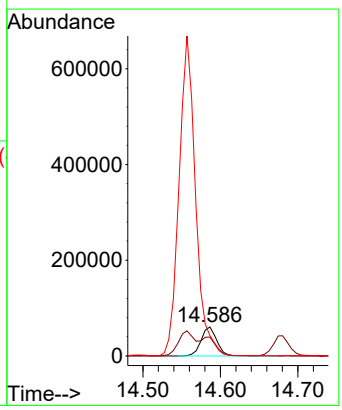


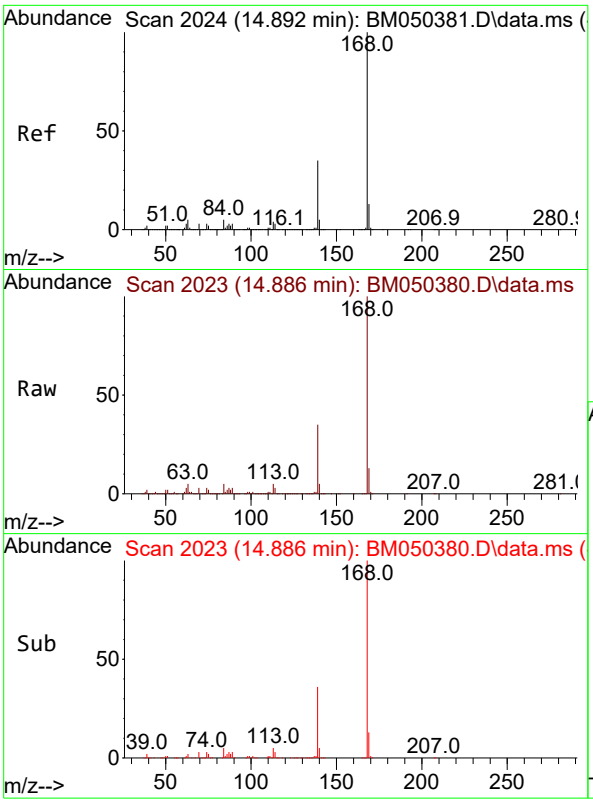


#54
2,4-Dinitrophenol
Concen: 18.641 ng
RT: 14.586 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:184 Resp: 85284

Ion	Ratio	Lower	Upper
184	100		
63	65.5	53.4	80.0
154	71.0	61.6	92.4

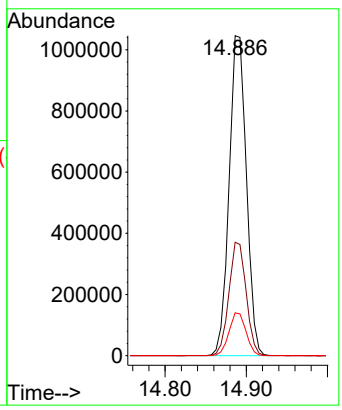




#55
Dibenzofuran
Concen: 20.048 ng
RT: 14.886 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:168 Resp: 154354

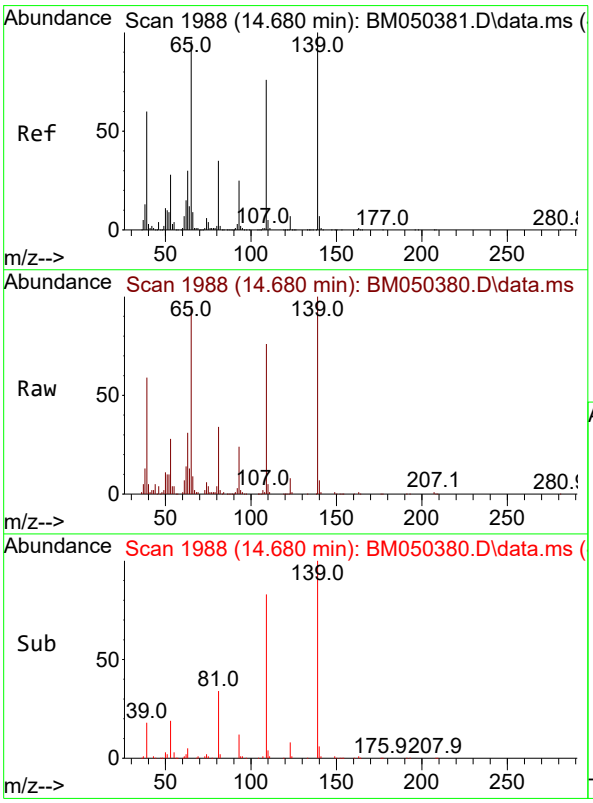
Ion	Ratio	Lower	Upper
168	100		
139	35.5	27.7	41.5
169	13.4	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

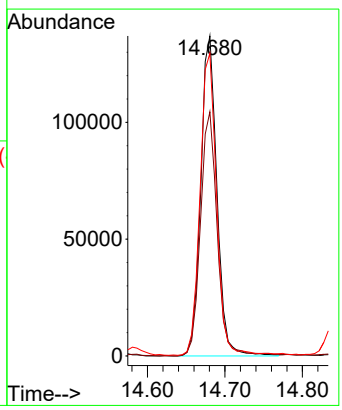
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

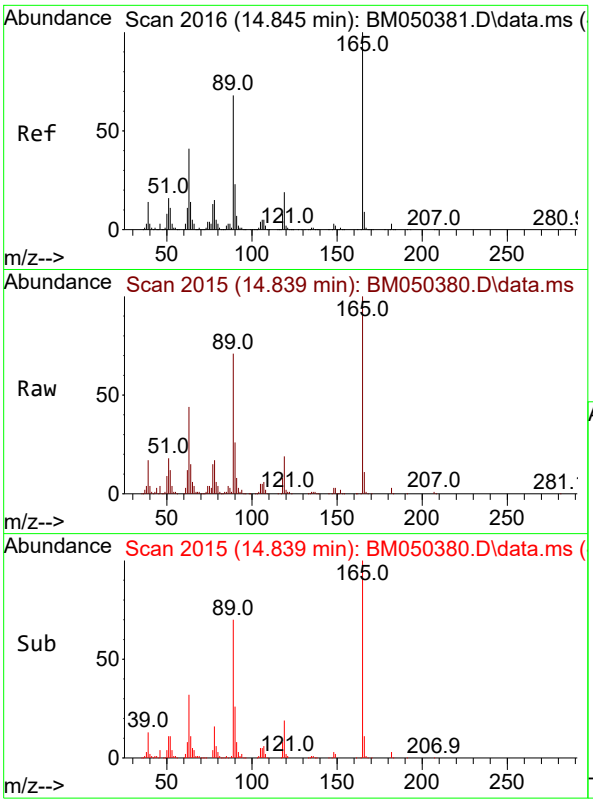


#56
4-Nitrophenol
Concen: 18.644 ng
RT: 14.680 min Scan# 1988
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:139 Resp: 198160

Ion	Ratio	Lower	Upper
139	100		
109	76.3	56.5	96.5
65	94.6	76.4	116.4

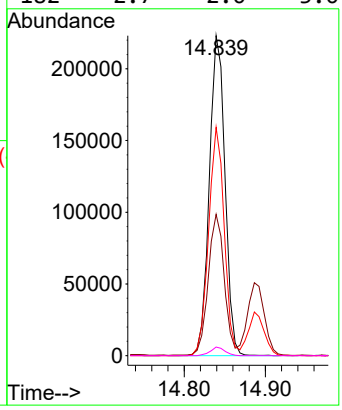




#57
2,4-Dinitrotoluene
Concen: 18.935 ng
RT: 14.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

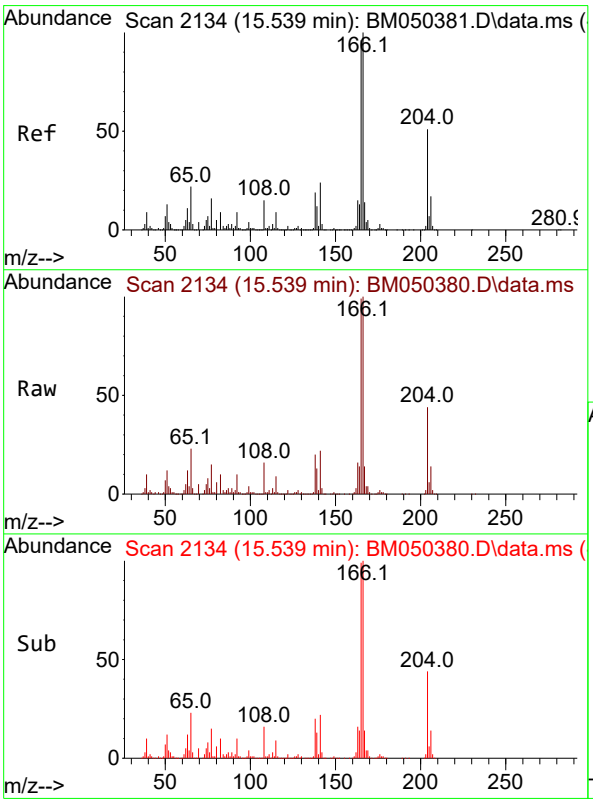
Tgt Ion:165 Resp: 29900

Ion	Ratio	Lower	Upper
165	100		
63	44.1	32.5	48.7
89	71.4	54.0	81.0
182	2.7	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

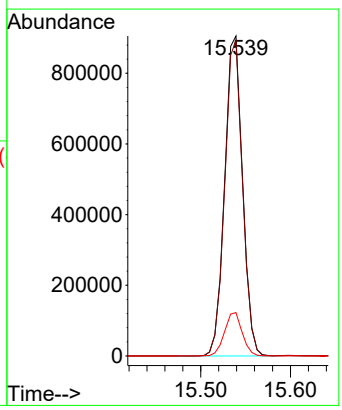
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

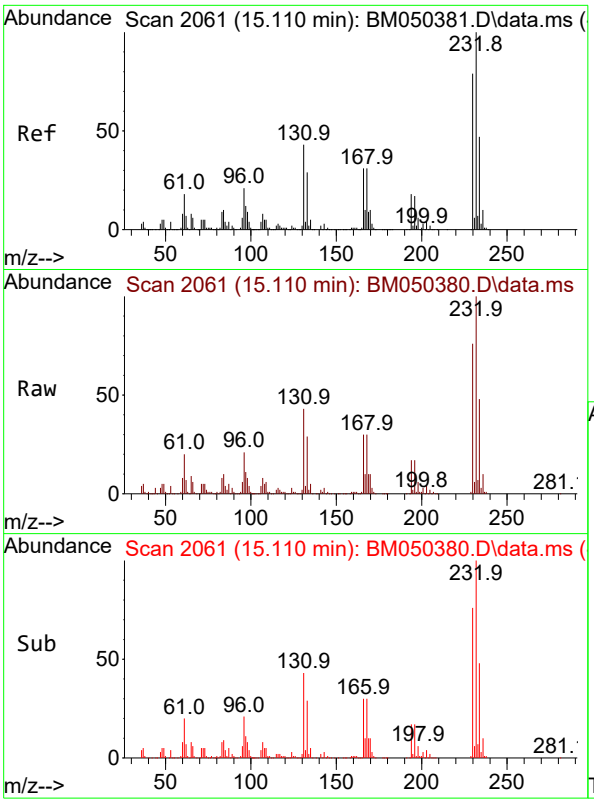


#58
Fluorene
Concen: 19.803 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:166 Resp: 1255879

Ion	Ratio	Lower	Upper
166	100		
165	98.6	77.0	115.6
167	13.6	10.9	16.3

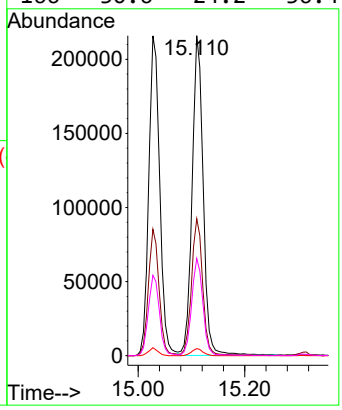




#59
2,3,4,6-Tetrachlorophenol
Concen: 19.733 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:232 Resp: 31220

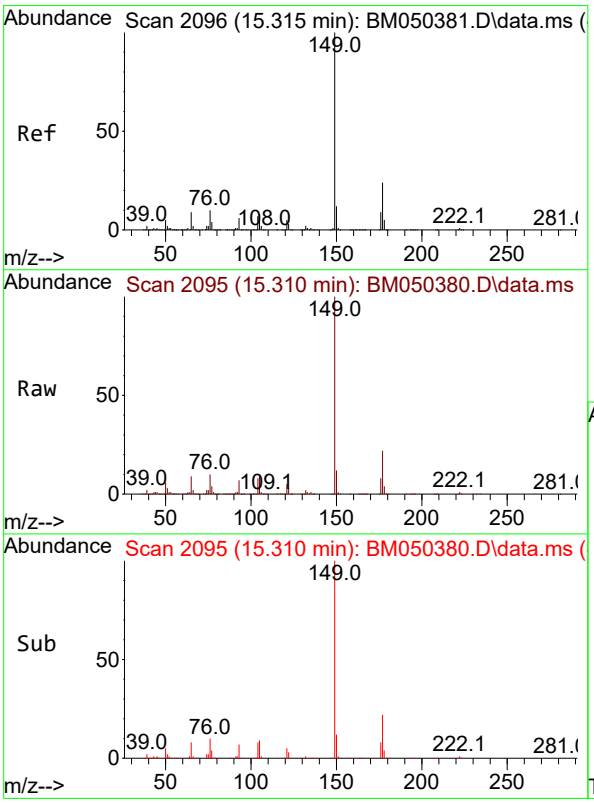
Ion	Ratio	Lower	Upper
232	100		
131	42.7	33.4	50.0
130	2.3	1.8	2.6
166	30.6	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

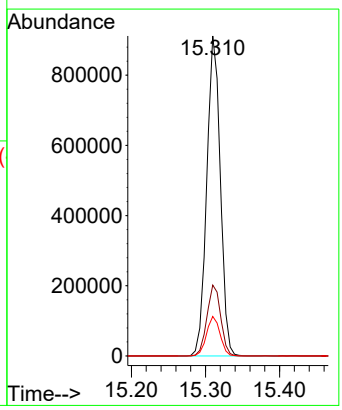
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

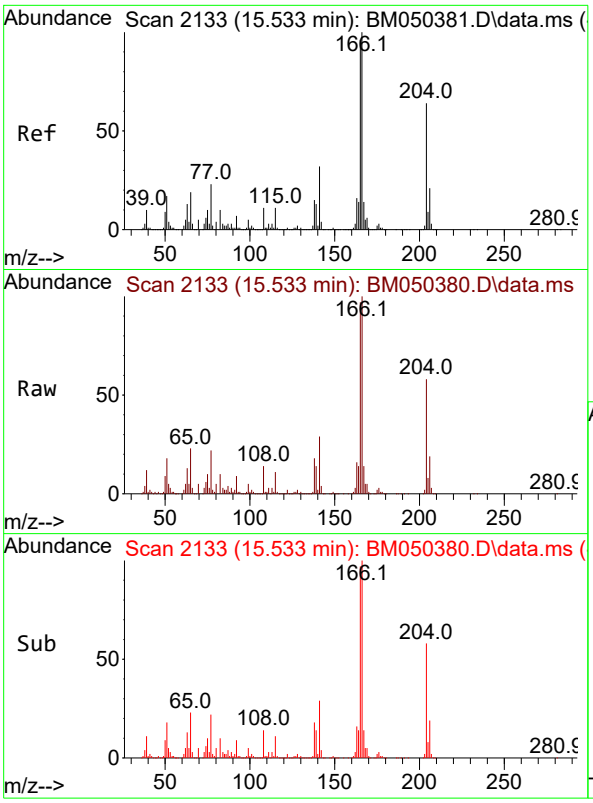


#60
Diethylphthalate
Concen: 20.055 ng
RT: 15.310 min Scan# 2095
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:149 Resp: 1159537

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.8	28.2
150	12.4	9.8	14.8

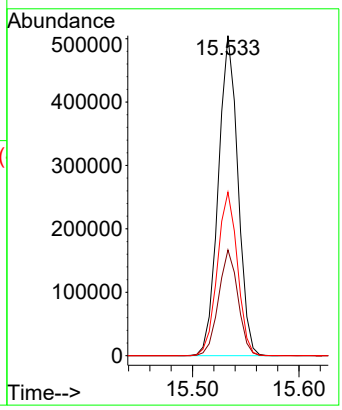




#61
4-Chlorophenyl-phenylether
Concen: 19.428 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:204 Resp: 64423

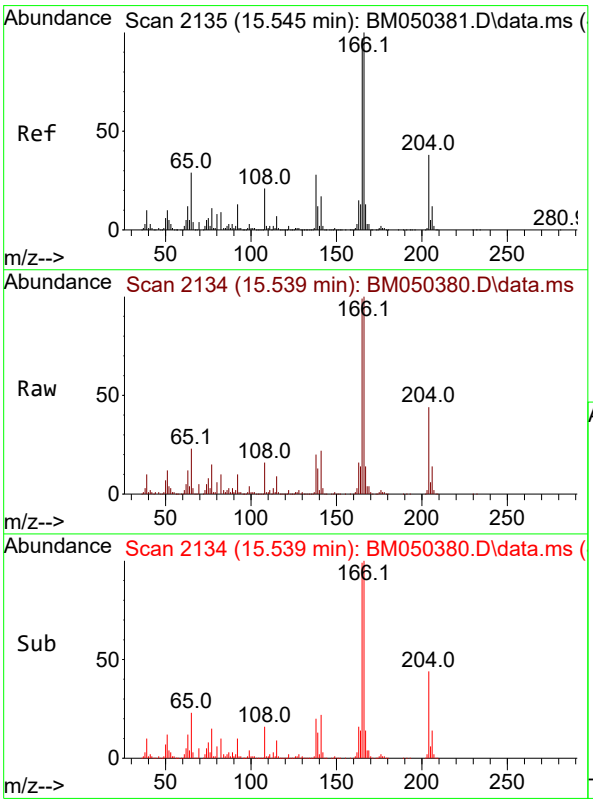
Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.6	39.8
141	51.1	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

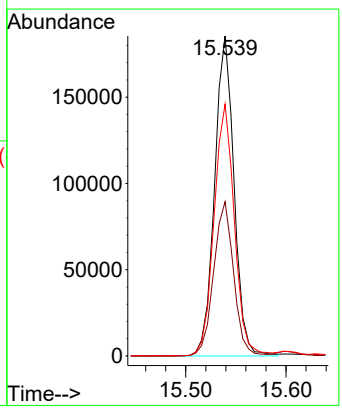
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

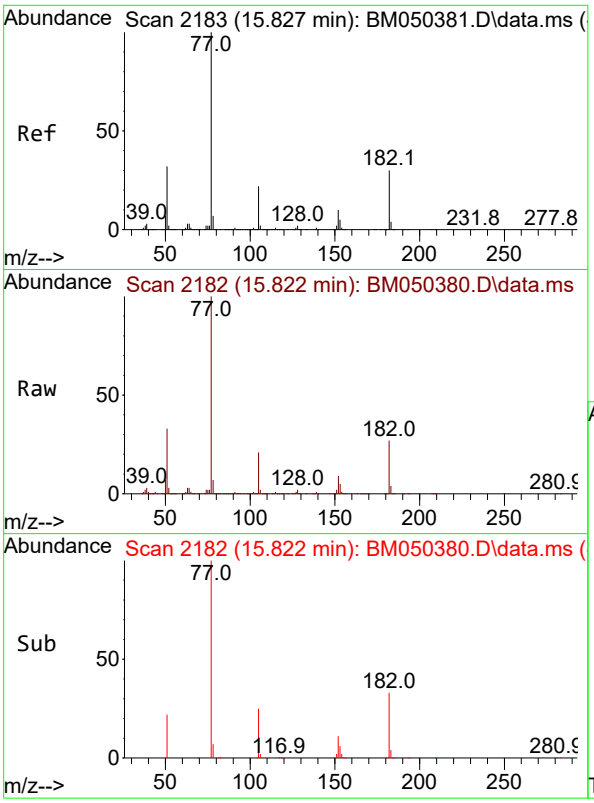


#62
4-Nitroaniline
Concen: 19.209 ng
RT: 15.539 min Scan# 2134
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:138 Resp: 249635

Ion	Ratio	Lower	Upper
138	100		
92	48.2	24.5	64.5
108	78.7	52.5	92.5

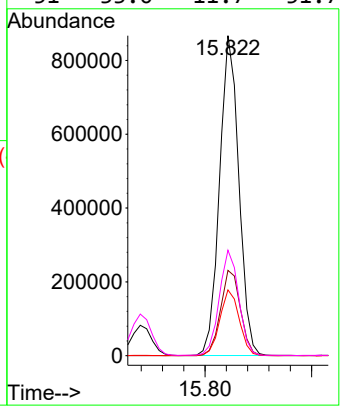




#63
Azobenzene
Concen: 20.436 ng
RT: 15.822 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

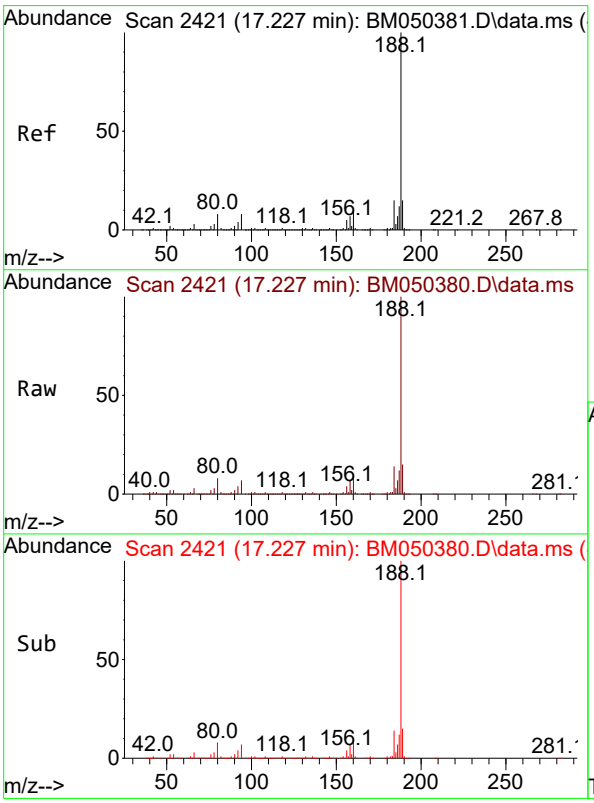
Tgt Ion: 77 Resp: 108500

Ion	Ratio	Lower	Upper
77	100		
182	26.7	10.0	50.0
105	20.6	2.0	42.0
51	33.0	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

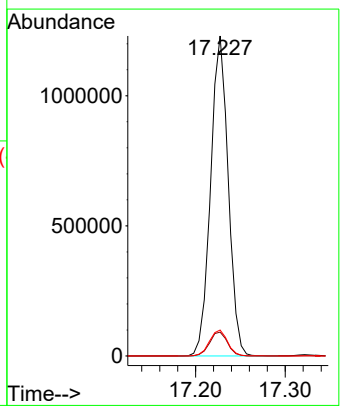
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

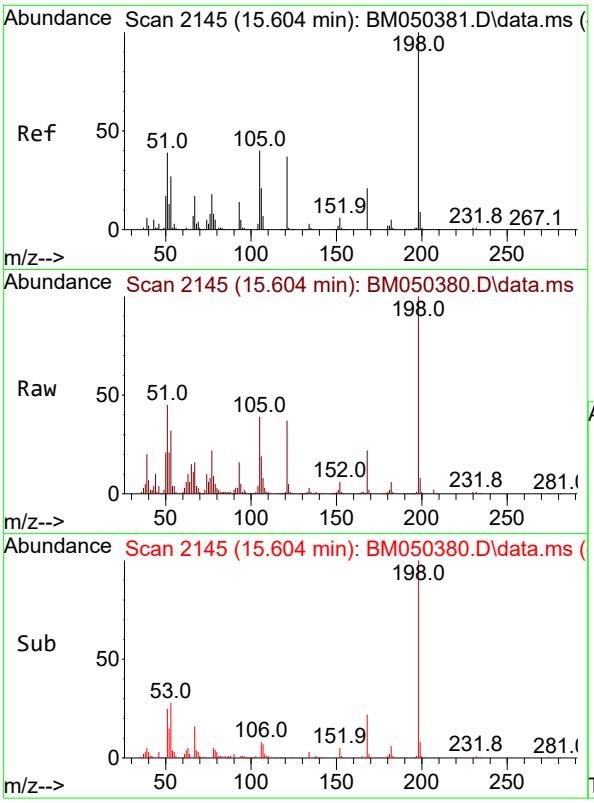


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:188 Resp: 1676151

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.0	9.0
80	8.1	6.5	9.7





#65
4,6-Dinitro-2-methylphenol
Concen: 18.758 ng
RT: 15.604 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

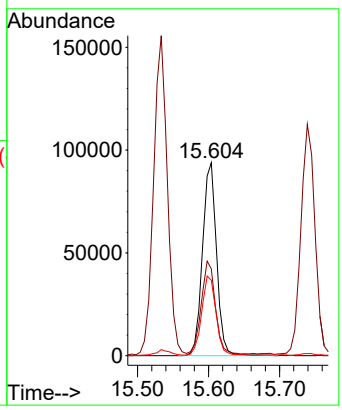
Tgt Ion:198 Resp: 12922

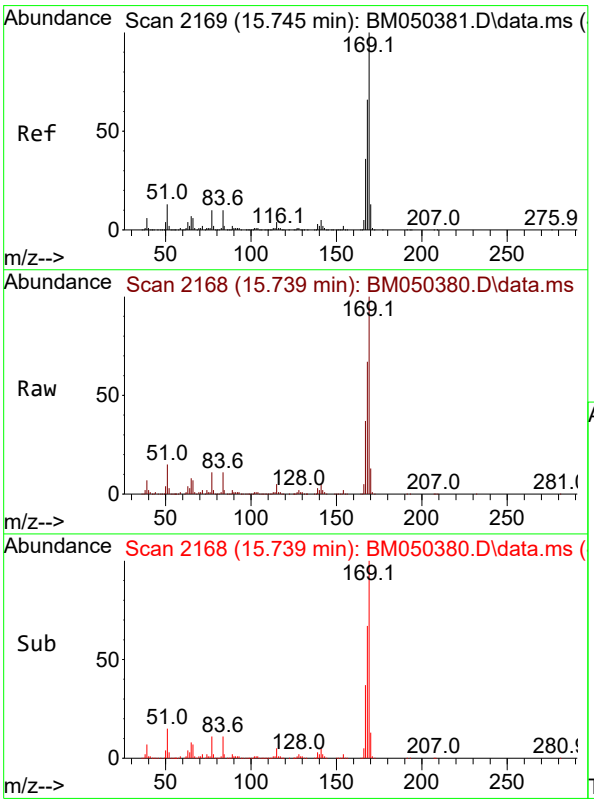
Ion	Ratio	Lower	Upper
198	100		
51	44.9	26.6	66.6
105	39.1	20.9	60.9

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

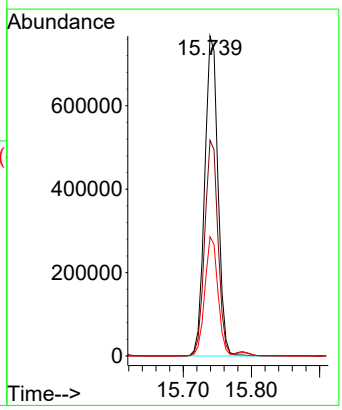


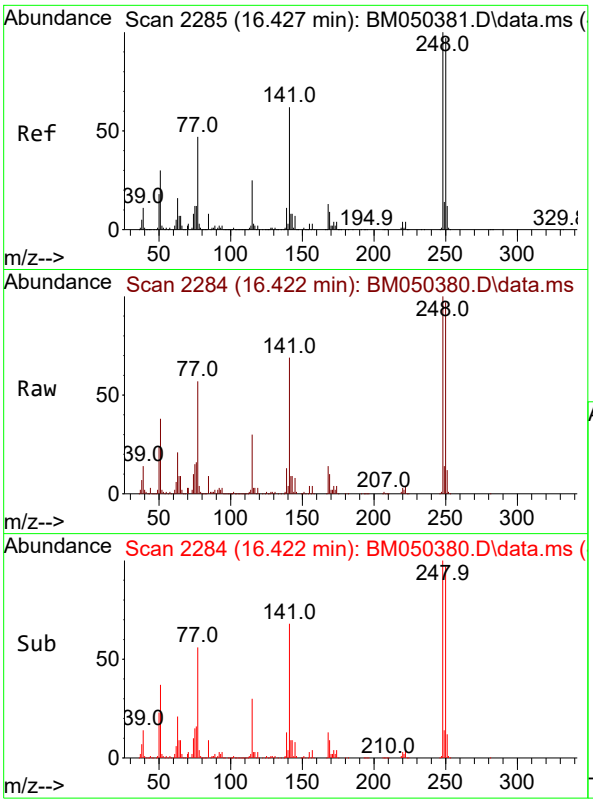


#66
n-Nitrosodiphenylamine
Concen: 19.819 ng
RT: 15.739 min Scan# 2168
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:169 Resp: 1039509

Ion	Ratio	Lower	Upper
169	100		
168	67.4	53.2	79.8
167	37.3	28.7	43.1





#67
4-Bromophenyl-phenylether
Concen: 19.130 ng
RT: 16.422 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

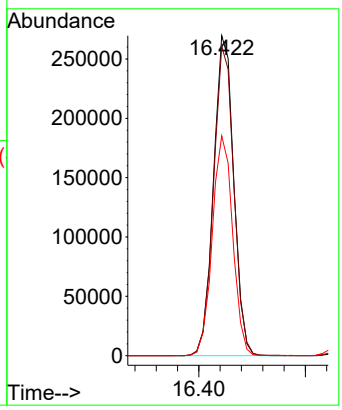
Tgt Ion:248 Resp: 35327

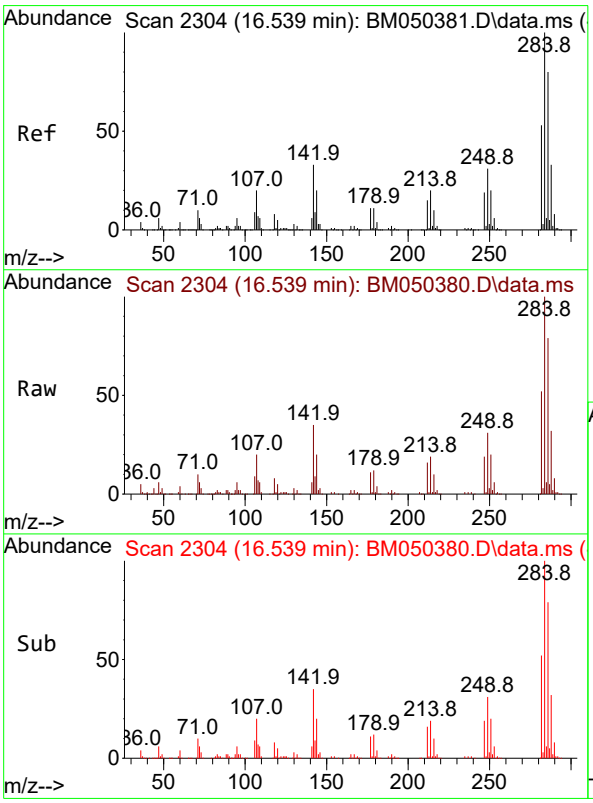
Ion	Ratio	Lower	Upper
248	100		
250	96.7	77.9	116.9
141	68.7	49.7	74.5

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

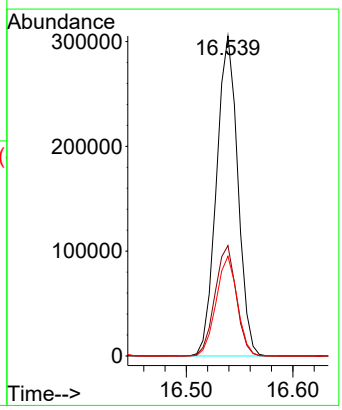


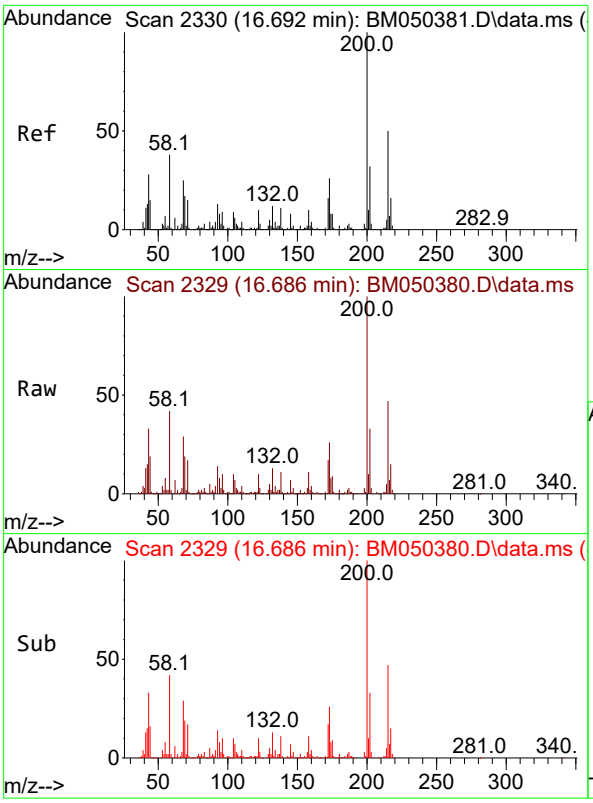


#68
Hexachlorobenzene
Concen: 19.444 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:284 Resp: 424108

Ion	Ratio	Lower	Upper
284	100		
142	34.5	26.8	40.2
249	31.2	24.5	36.7





#69
Atrazine
Concen: 19.373 ng
RT: 16.686 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

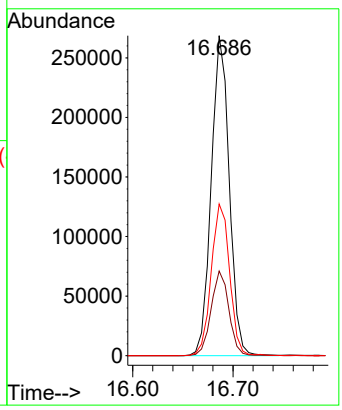
Tgt Ion:200 Resp: 33365

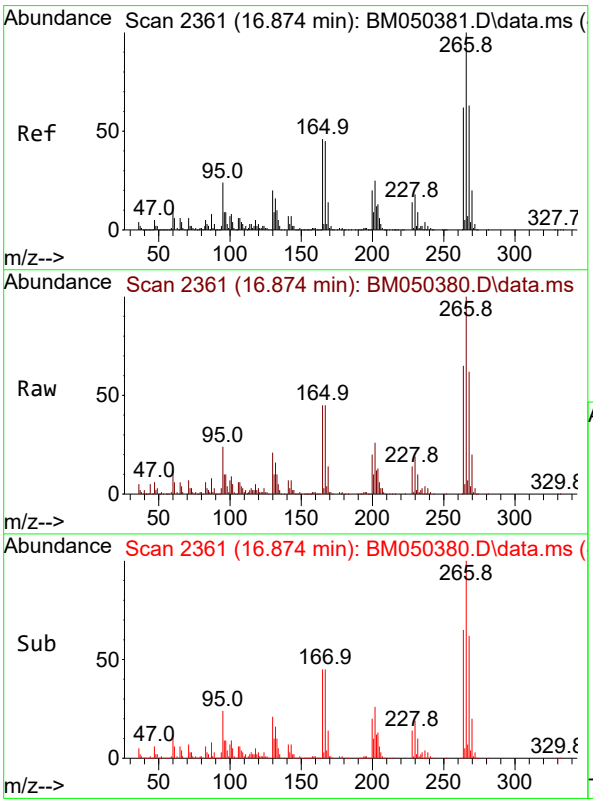
Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.6	45.6
215	47.4	29.6	69.6

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

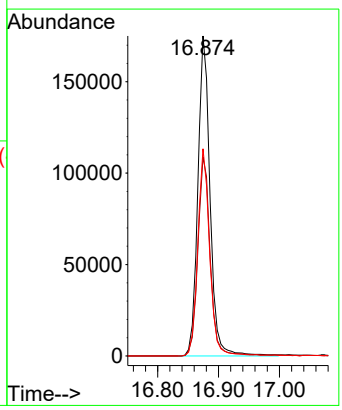


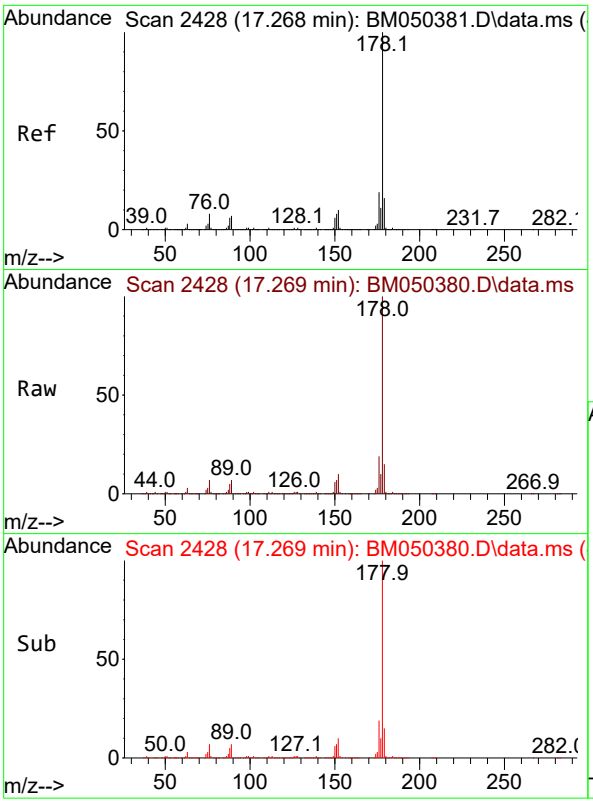


#70
Pentachlorophenol
Concen: 17.920 ng
RT: 16.874 min Scan# 2361
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:266 Resp: 243316

Ion	Ratio	Lower	Upper
266	100		
268	62.1	50.5	75.7
264	64.8	49.9	74.9

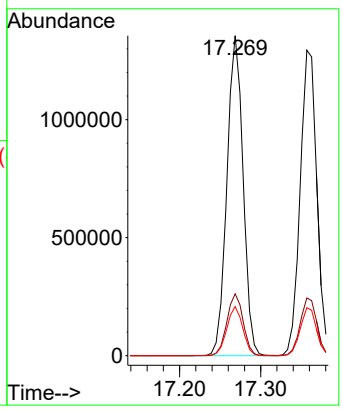




#71
Phenanthrene
Concen: 19.784 ng
RT: 17.269 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:178 Resp: 187640

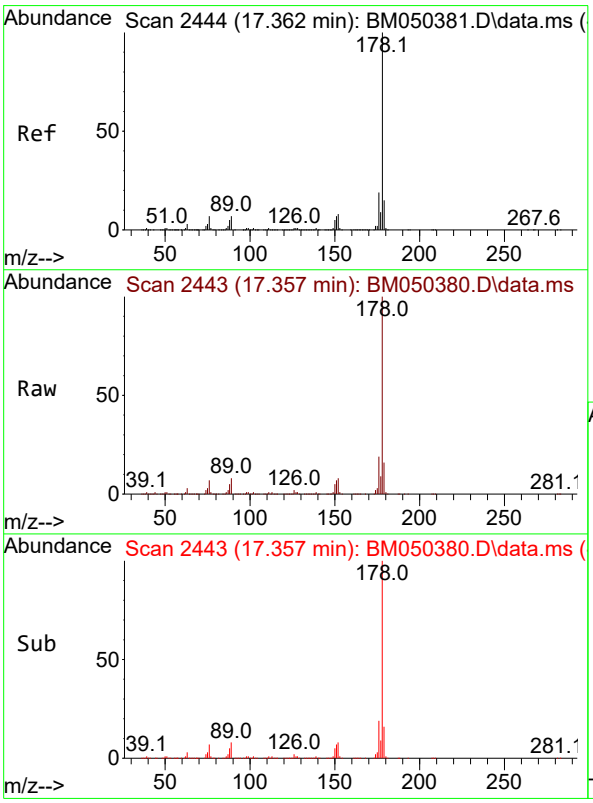
Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.4	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

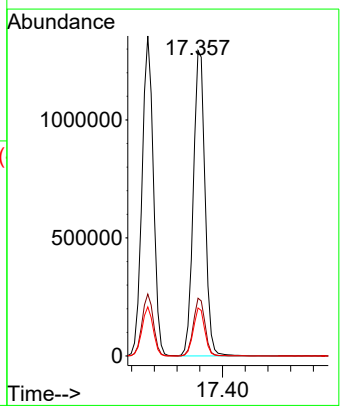
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

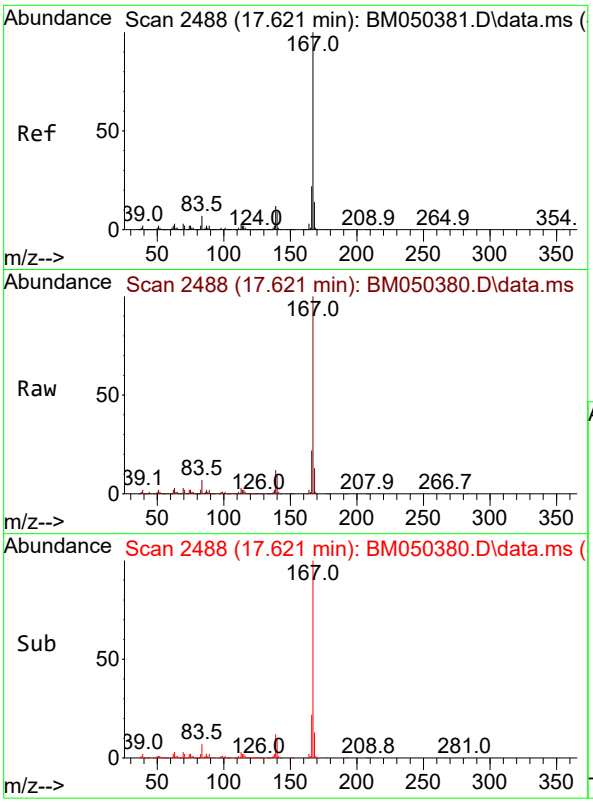


#72
Anthracene
Concen: 19.694 ng
RT: 17.357 min Scan# 2443
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:178 Resp: 1859273

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.9	22.3
179	15.7	12.2	18.4

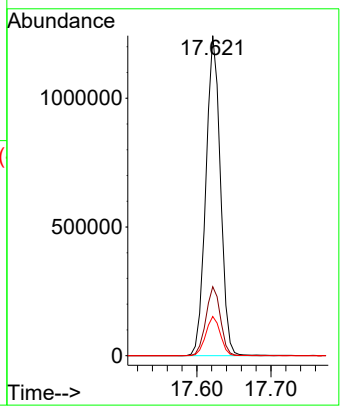




#73
Carbazole
Concen: 19.801 ng
RT: 17.621 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:167 Resp: 169152

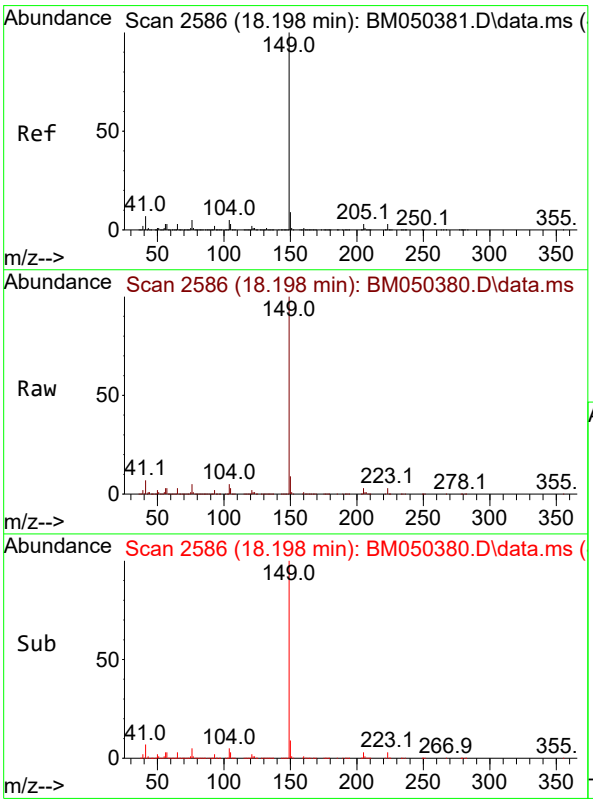
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	12.2	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

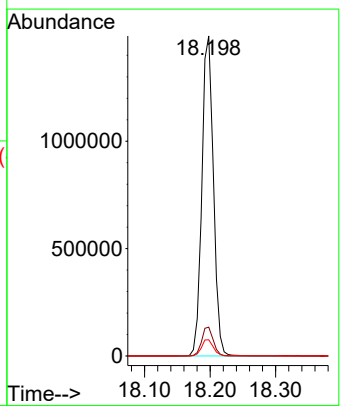
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

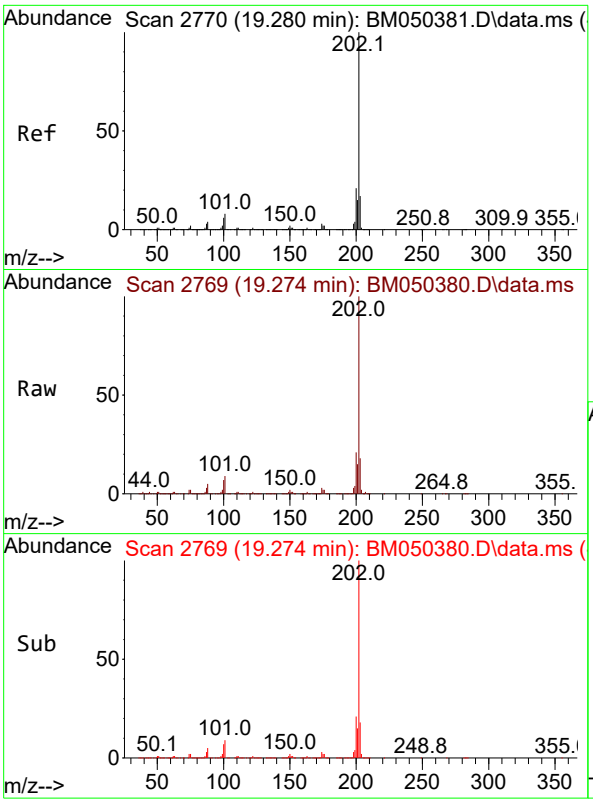


#74
Di-n-butylphthalate
Concen: 19.566 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:149 Resp: 1829412

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	5.0	3.9	5.9

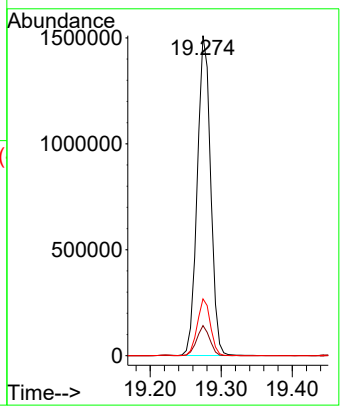




#75
Fluoranthene
Concen: 19.212 ng
RT: 19.274 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:202 Resp: 198088

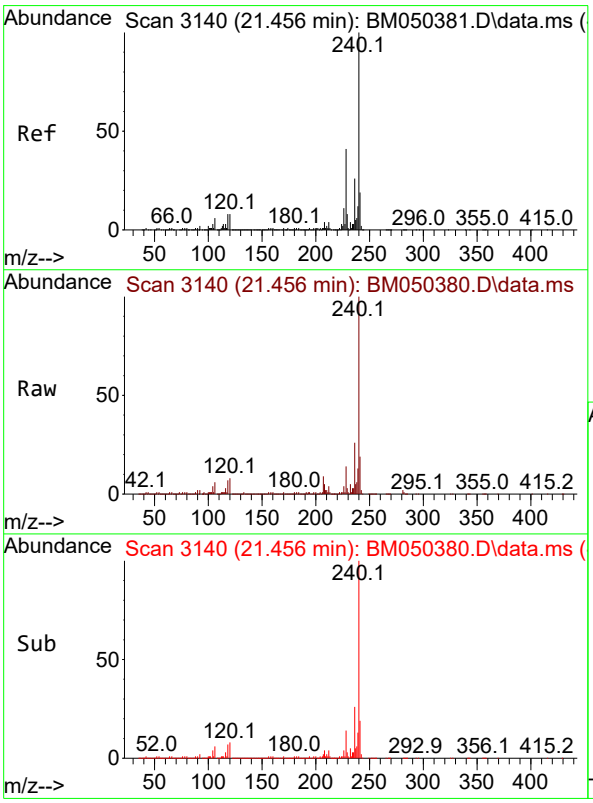
Ion	Ratio	Lower	Upper
202	100		
101	9.4	0.0	28.3
203	17.8	0.0	37.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

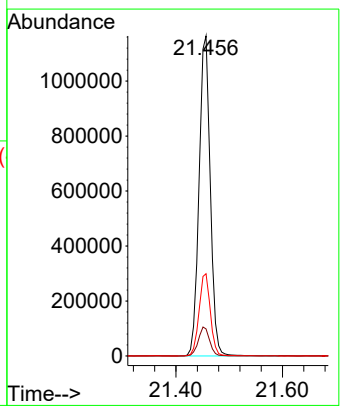
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

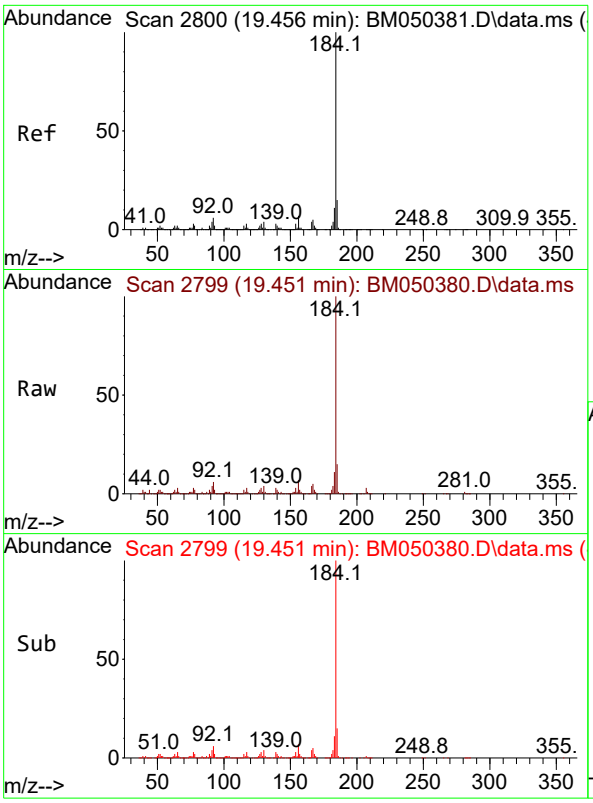


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3140
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:240 Resp: 1698030

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.7	10.1
236	25.7	20.7	31.1

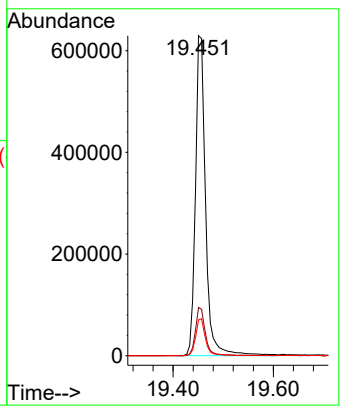




#77
Benzidine
Concen: 20.422 ng
RT: 19.451 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:184 Resp: 88447

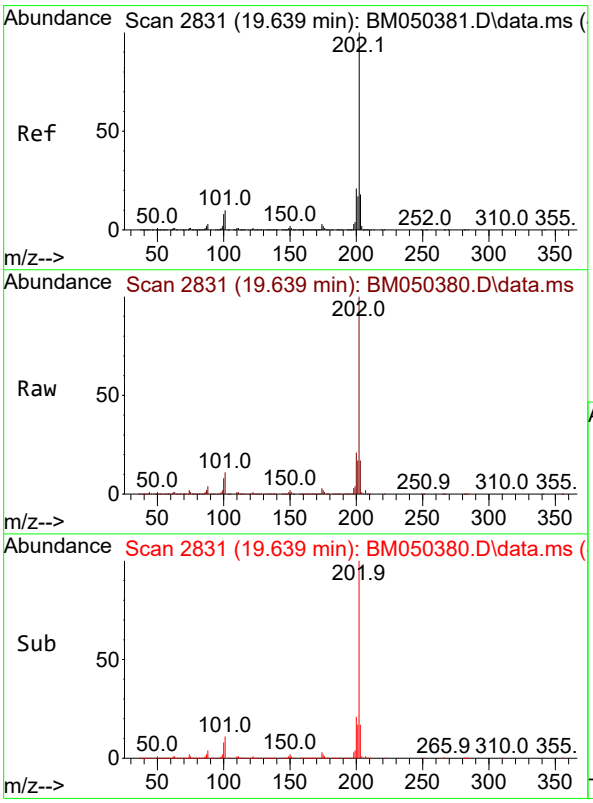
Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.7	17.5
183	11.2	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

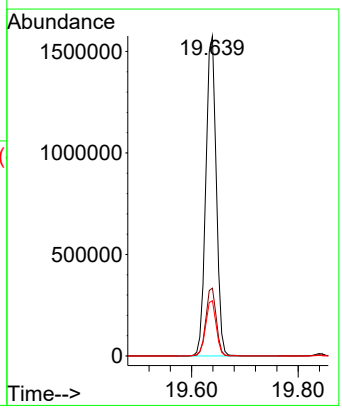
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

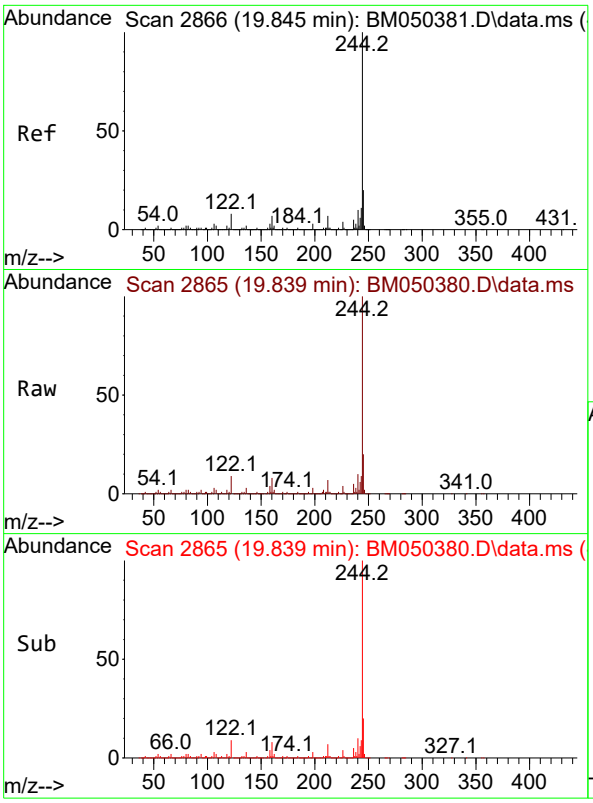


#78
Pyrene
Concen: 19.679 ng
RT: 19.639 min Scan# 2831
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:202 Resp: 2140070

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.2	14.1	21.1

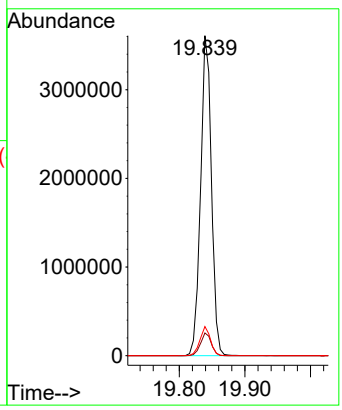




#79
Terphenyl-d14
Concen: 43.104 ng
RT: 19.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:244 Resp: 415987

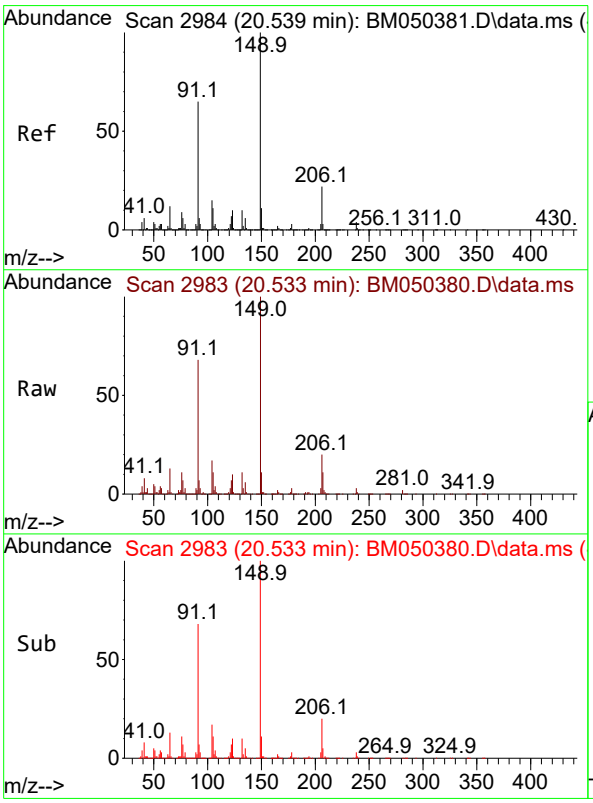
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	9.1	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

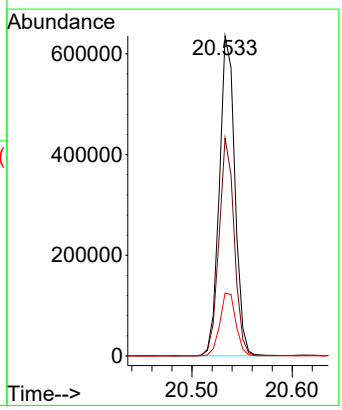
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

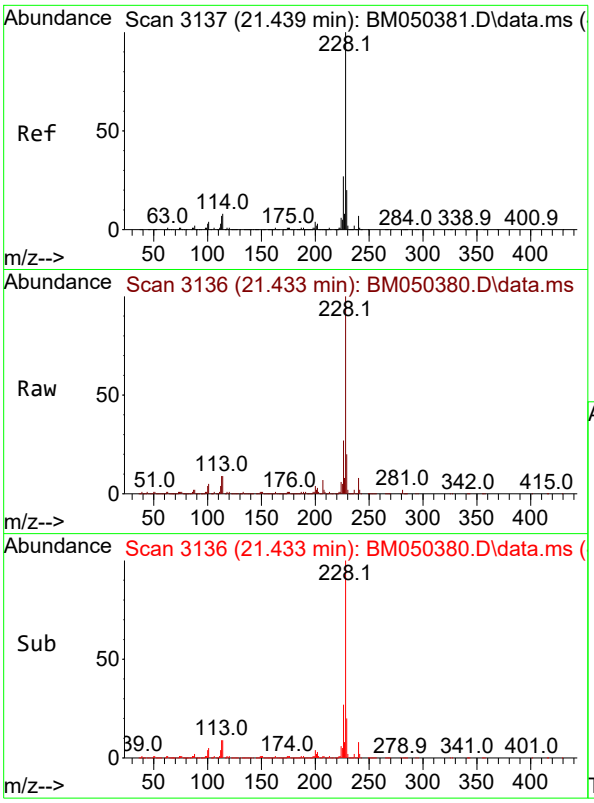


#80
Butylbenzylphthalate
Concen: 19.009 ng
RT: 20.533 min Scan# 2983
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:149 Resp: 681649

Ion	Ratio	Lower	Upper
149	100		
91	68.1	51.6	77.4
206	19.7	17.8	26.8

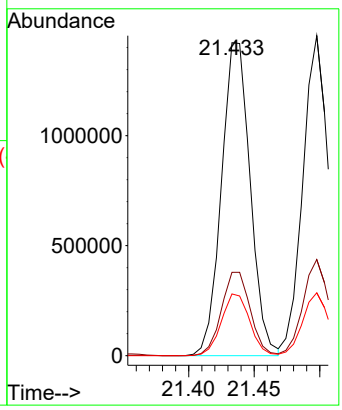




#81
Benzo(a)anthracene
Concen: 19.676 ng
RT: 21.433 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:228 Resp: 217694

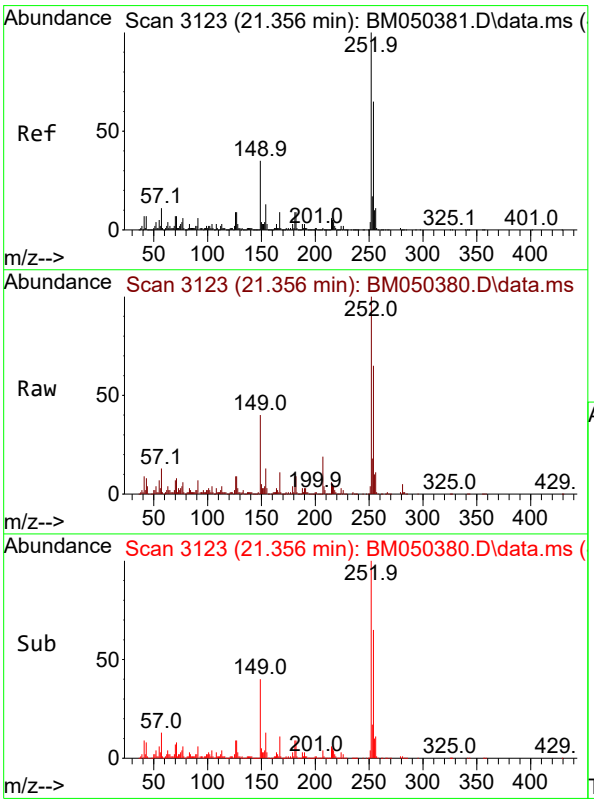
Ion	Ratio	Lower	Upper
228	100		
226	26.6	21.8	32.8
229	19.7	16.0	24.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

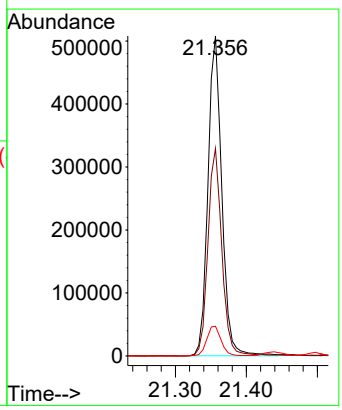
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

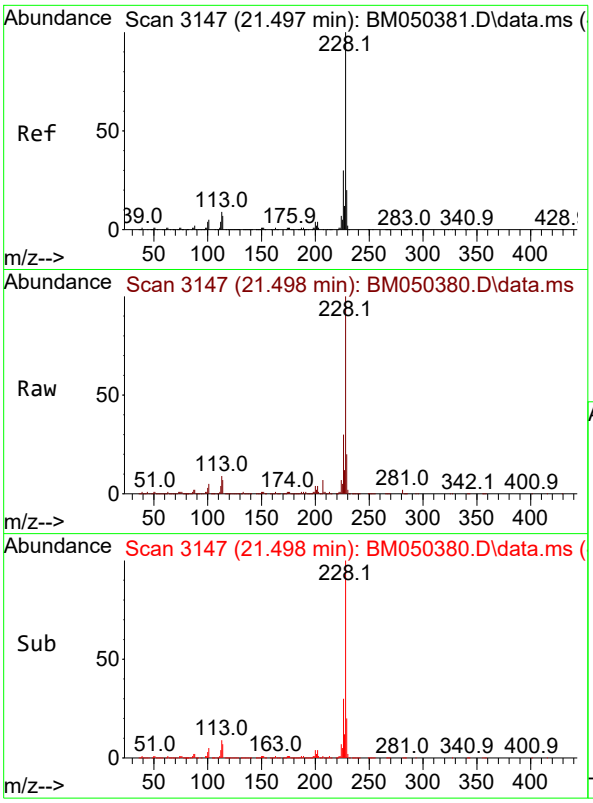


#82
3,3'-Dichlorobenzidine
Concen: 18.471 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:252 Resp: 689176

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.7	77.5
126	9.3	7.3	10.9

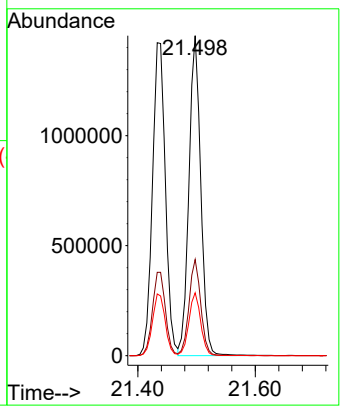




#83
Chrysene
Concen: 19.529 ng
RT: 21.498 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:228 Resp: 203797

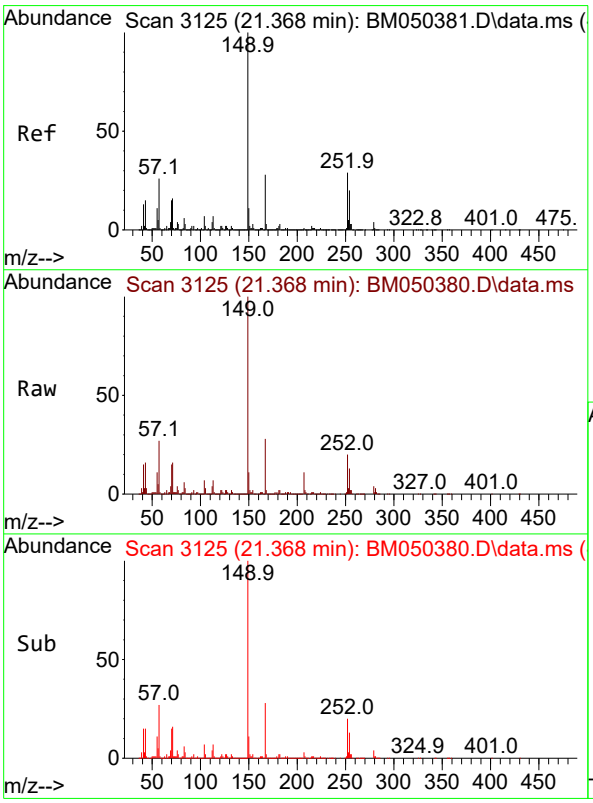
Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.2	36.4
229	19.6	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

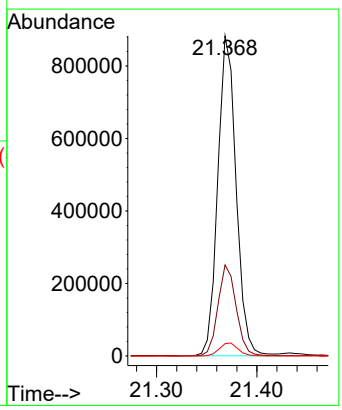
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

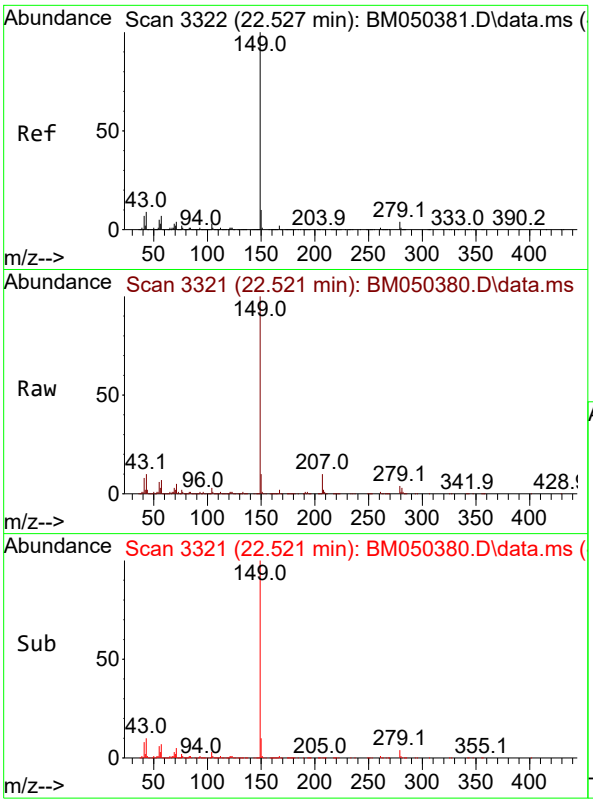


#84
Bis(2-ethylhexyl)phthalate
Concen: 19.638 ng
RT: 21.368 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:149 Resp: 1117874

Ion	Ratio	Lower	Upper
149	100		
167	28.5	22.7	34.1
279	3.9	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 17.729 ng
RT: 22.521 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

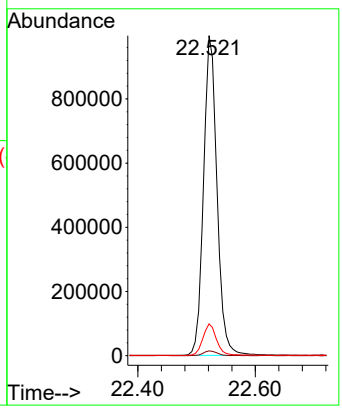
Tgt Ion:149 Resp: 158061

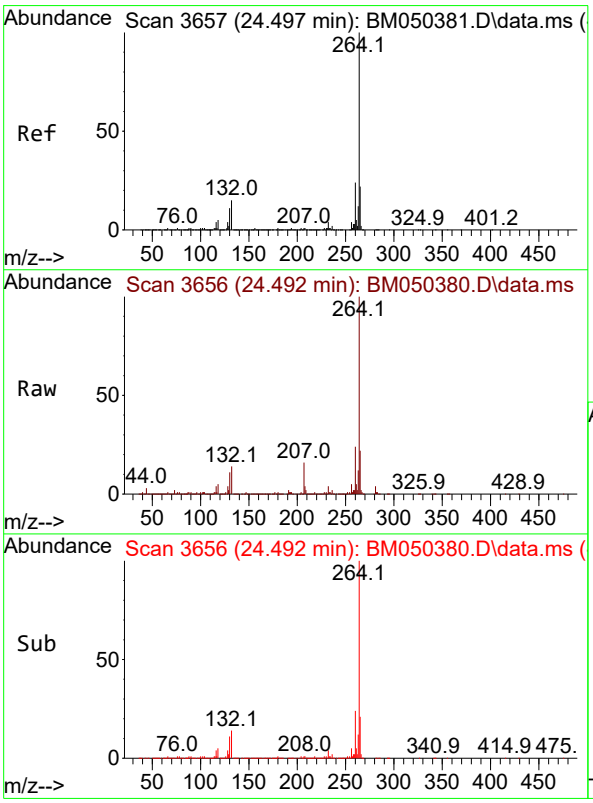
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	10.1	7.7	11.5

Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

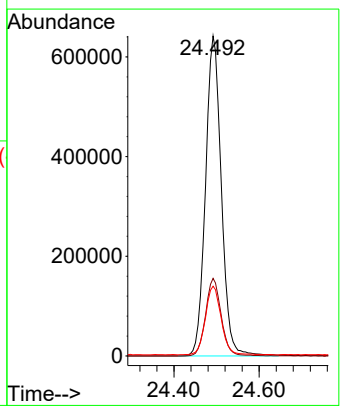


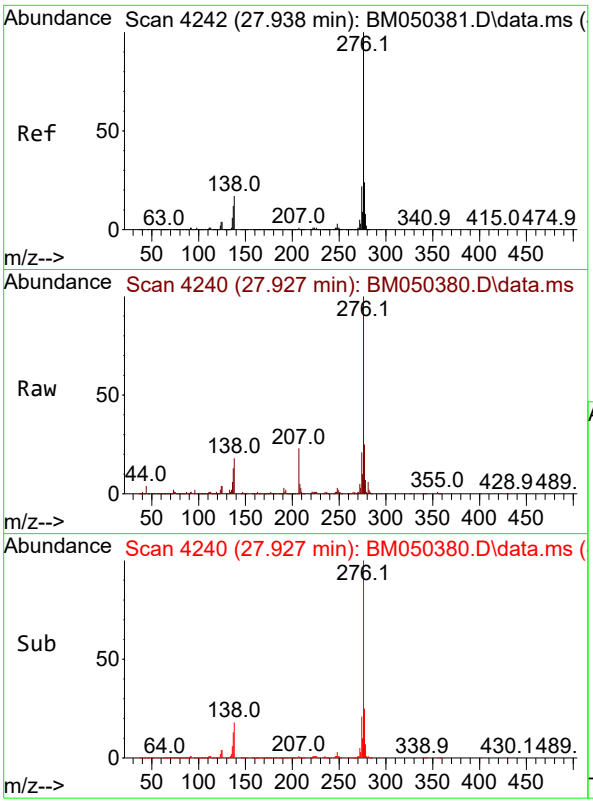


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.492 min Scan# 3656
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:264 Resp: 1655344

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.2	28.8
265	21.8	17.8	26.6

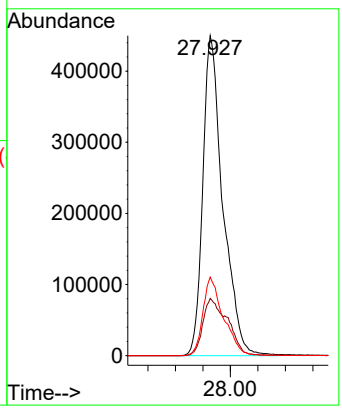




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.328 ng
RT: 27.927 min Scan# 4
Delta R.T. -0.011 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

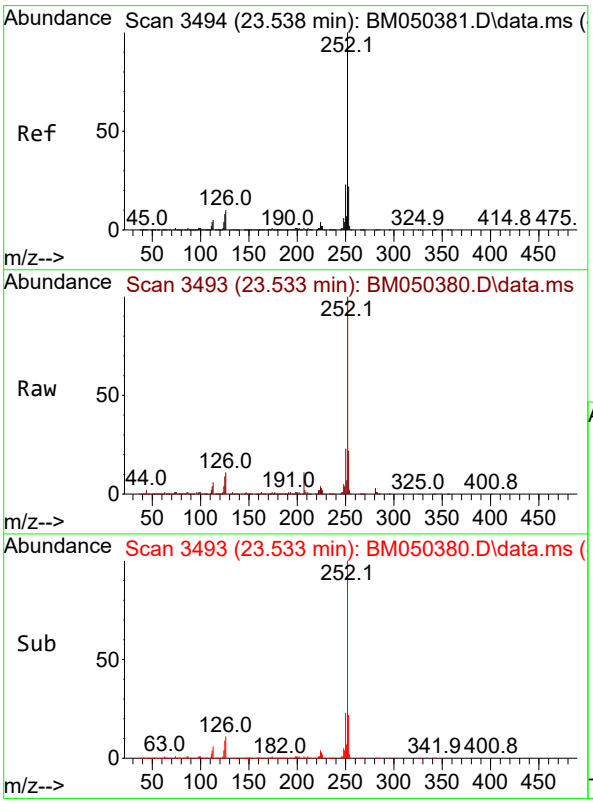
Tgt Ion:276 Resp: 227473

Ion	Ratio	Lower	Upper
276	100		
138	22.0	17.0	25.6
277	25.1	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

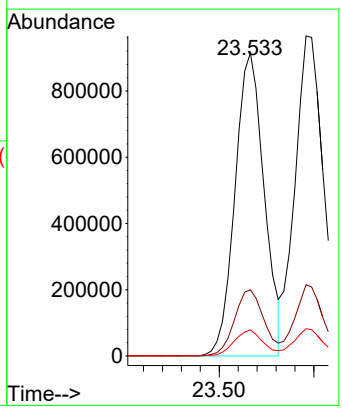
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

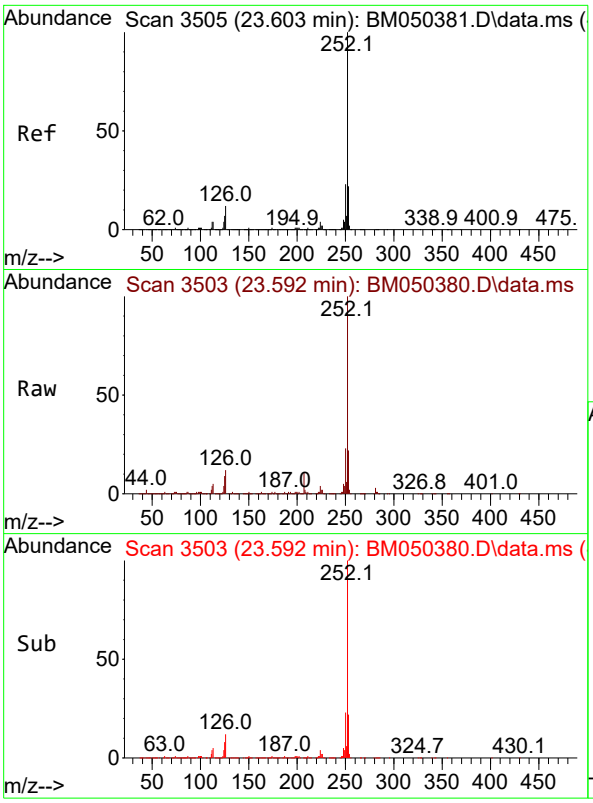


#88
Benzo(b)fluoranthene
Concen: 19.138 ng
RT: 23.533 min Scan# 3493
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:252 Resp: 1948651

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.6	6.3	9.5

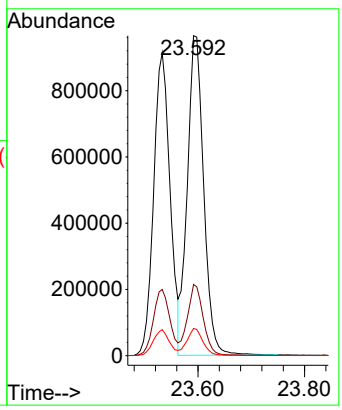




#89
Benzo(k)fluoranthene
Concen: 19.544 ng
RT: 23.592 min Scan# 3
Delta R.T. -0.011 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:252 Resp: 206481

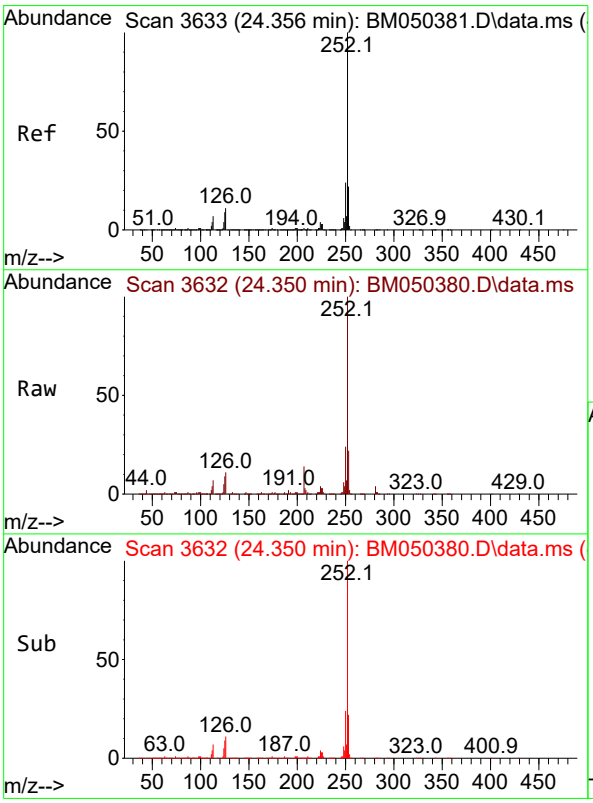
Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	8.5	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

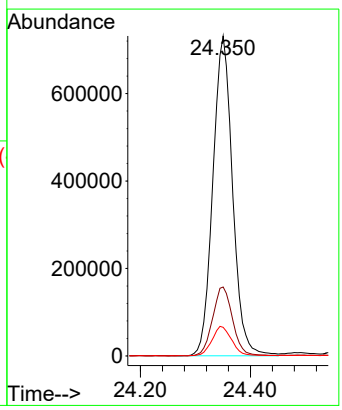
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

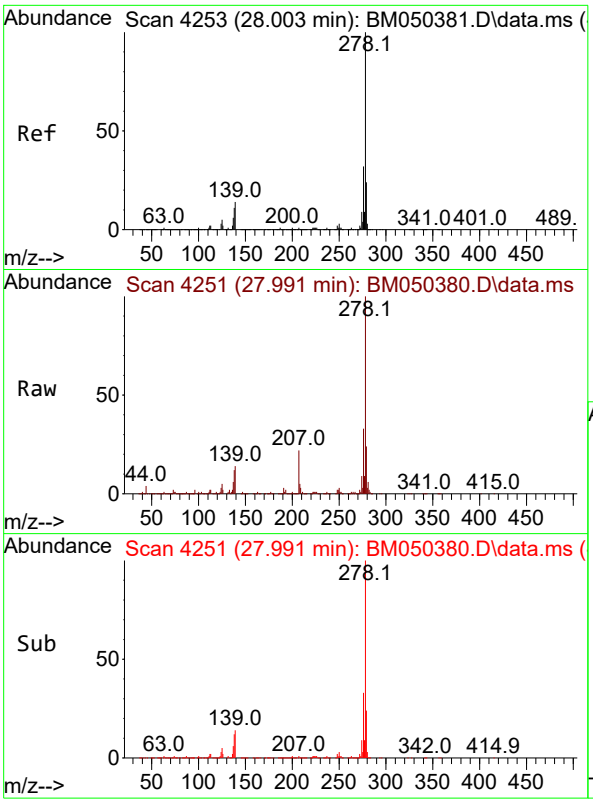


#90
Benzo(a)pyrene
Concen: 19.085 ng
RT: 24.350 min Scan# 3632
Delta R.T. -0.006 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:252 Resp: 1819117

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	8.9	7.0	10.4

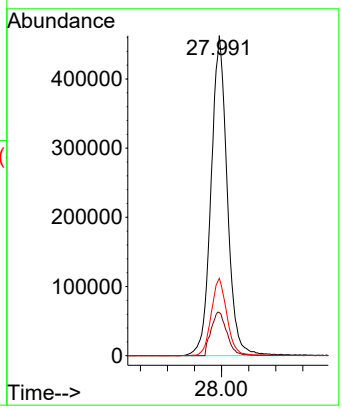




#91
Dibenzo(a,h)anthracene
Concen: 19.357 ng
RT: 27.991 min Scan# 4
Delta R.T. -0.011 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:278 Resp: 191867

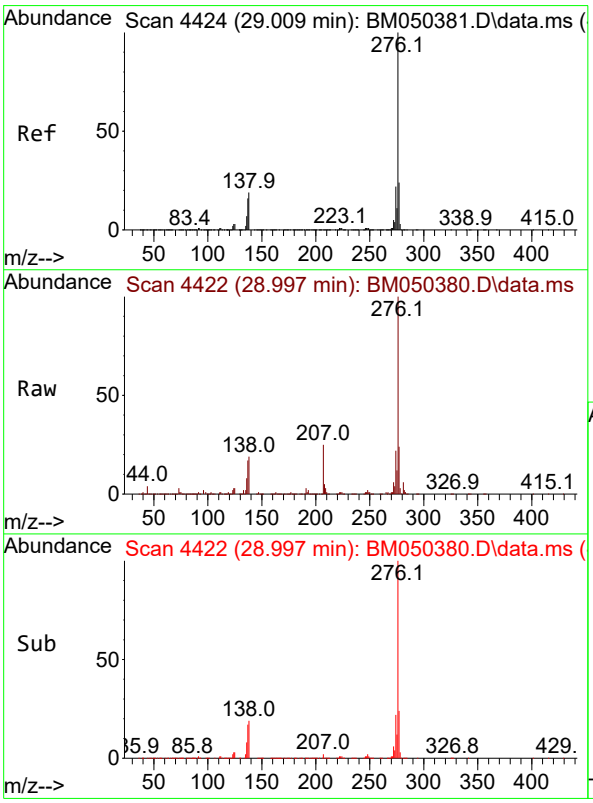
Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.8	16.2
279	24.2	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

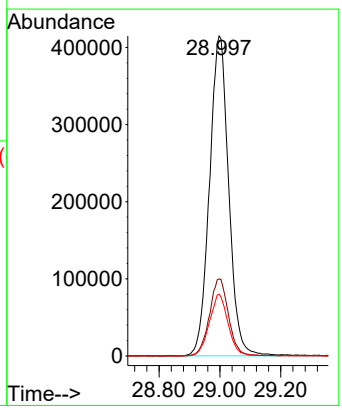
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



#92
Benzo(g,h,i)perylene
Concen: 19.385 ng
RT: 28.997 min Scan# 4422
Delta R.T. -0.011 min
Lab File: BM050380.D
Acq: 08 Jul 2025 14:40

Tgt Ion:276 Resp: 1815952

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.1	28.7
138	19.3	14.9	22.3



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050381.D
Acq On : 08 Jul 2025 15:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 18:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	390087	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	1498318	20.000	ng	0.00
39) Acenaphthene-d10	14.492	164	967077	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	1834050	20.000	ng	0.00
76) Chrysene-d12	21.456	240	1904004	20.000	ng	0.00
86) Perylene-d12	24.497	264	1842285	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	1797254	79.307	ng	0.00
7) Phenol-d6	7.022	99	2287075	80.057	ng	0.00
23) Nitrobenzene-d5	9.022	82	2350204	80.025	ng	0.00
42) 2,4,6-Tribromophenol	15.974	330	961125	81.797	ng	0.00
45) 2-Fluorobiphenyl	13.121	172	6157884	78.635	ng	0.00
79) Terphenyl-d14	19.845	244	9584372	88.568	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.334	88	358574	38.479	ng	100
3) Pyridine	3.734	79	957840	39.152	ng	100
4) n-Nitrosodimethylamine	3.640	42	446254	39.127	ng	100
6) Aniline	7.187	93	1465425	39.971	ng	100
8) 2-Chlorophenol	7.428	128	949275	39.725	ng	100
9) Benzaldehyde	6.998	77	699931m	41.183	ng	
10) Phenol	7.051	94	1176548	39.486	ng	100
11) bis(2-Chloroethyl)ether	7.287	93	933093	39.103	ng	100
12) 1,3-Dichlorobenzene	7.757	146	1129597	38.876	ng	100
13) 1,4-Dichlorobenzene	7.904	146	1143020	38.525	ng	100
14) 1,2-Dichlorobenzene	8.222	146	1100335	38.737	ng	100
15) Benzyl Alcohol	8.098	79	797306	39.610	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.392	45	1367157	38.896	ng	100
17) 2-Methylphenol	8.298	107	772662	39.981	ng	100
18) Hexachloroethane	8.951	117	406049	38.914	ng	100
19) n-Nitroso-di-n-propyla...	8.669	70	710692	41.065	ng	100
20) 3+4-Methylphenols	8.628	107	1033775	39.847	ng	100
22) Acetophenone	8.681	105	1471867	39.290	ng	100
24) Nitrobenzene	9.057	77	1034216	39.463	ng	100
25) Isophorone	9.592	82	1916609	40.218	ng	100
26) 2-Nitrophenol	9.775	139	440758	41.266	ng	100
27) 2,4-Dimethylphenol	9.833	122	895117	39.384	ng	100
28) bis(2-Chloroethoxy)met...	10.069	93	1249755	39.577	ng	100
29) 2,4-Dichlorophenol	10.304	162	934922	40.040	ng	100
30) 1,2,4-Trichlorobenzene	10.527	180	1085193	38.850	ng	100
31) Naphthalene	10.710	128	2960809	38.905	ng	100
32) Benzoic acid	9.945	122	491059	36.793	ng	100
33) 4-Chloroaniline	10.810	127	1285226	39.947	ng	100
34) Hexachlorobutadiene	11.010	225	662229	38.844	ng	100
35) Caprolactam	11.580	113	260010	40.791	ng	100
36) 4-Chloro-3-methylphenol	11.933	107	883903	40.538	ng	100
37) 2-Methylnaphthalene	12.321	142	1901706	39.576	ng	100
38) 1-Methylnaphthalene	12.539	142	2017118	39.665	ng	100
40) 1,2,4,5-Tetrachloroben...	12.692	216	1203524	39.134	ng	100
41) Hexachlorocyclopentadiene	12.680	237	765708	38.951	ng	100
43) 2,4,6-Trichlorophenol	12.927	196	761982	40.252	ng	100

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050381.D
Acq On : 08 Jul 2025 15:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 18:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.992	196	831142	40.202	ng	100
46) 1,1'-Biphenyl	13.333	154	2786215	38.832	ng	100
47) 2-Chloronaphthalene	13.368	162	2224727	38.889	ng	100
48) 2-Nitroaniline	13.563	65	538415	42.165	ng	100
49) Acenaphthylene	14.215	152	3433586	39.714	ng	100
50) Dimethylphthalate	13.951	163	2613190	39.248	ng	100
51) 2,6-Dinitrotoluene	14.063	165	528767	41.362	ng	100
52) Acenaphthene	14.557	154	2148079	39.080	ng	100
53) 3-Nitroaniline	14.386	138	568716	41.832	ng	100
54) 2,4-Dinitrophenol	14.586	184	225952	35.873	ng	100
55) Dibenzofuran	14.892	168	3305040	39.024	ng	100
56) 4-Nitrophenol	14.680	139	473550	40.504	ng	100
57) 2,4-Dinitrotoluene	14.845	165	717807	38.104	ng	100
58) Fluorene	15.539	166	2744882	39.349	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.110	232	705044	40.512	ng	100
60) Diethylphthalate	15.315	149	2532007	39.811	ng	100
61) 4-Chlorophenyl-phenyle...	15.533	204	1443937	39.586	ng	100
62) 4-Nitroaniline	15.545	138	602257	39.043	ng	100
63) Azobenzene	15.827	77	2337291	40.021	ng	100
65) 4,6-Dinitro-2-methylph...	15.604	198	343246	36.538	ng	100
66) n-Nitrosodiphenylamine	15.745	169	2284645	39.809	ng	100
67) 4-Bromophenyl-phenylether	16.427	248	798257	39.504	ng	100
68) Hexachlorobenzene	16.539	284	940659	39.414	ng	100
69) Atrazine	16.692	200	775270	41.139	ng	100
70) Pentachlorophenol	16.874	266	590077	39.717	ng	100
71) Phenanthrene	17.268	178	4039451	38.923	ng	100
72) Anthracene	17.362	178	4095570	39.646	ng	100
73) Carbazole	17.621	167	3704436	39.632	ng	100
74) Di-n-butylphthalate	18.198	149	4183360	40.890	ng	100
75) Fluoranthene	19.280	202	4522403	40.085	ng	100
77) Benzidine	19.456	184	2104809	43.341	ng	100
78) Pyrene	19.639	202	4798678	39.352	ng	100
80) Butylbenzylphthalate	20.539	149	1677924	41.731	ng	100
81) Benzo(a)anthracene	21.439	228	4880944	39.344	ng	100
82) 3,3'-Dichlorobenzidine	21.356	252	1633134	39.036	ng	100
83) Chrysene	21.497	228	4604684	39.351	ng	100
84) Bis(2-ethylhexyl)phtha...	21.368	149	2685699	42.076	ng	100
85) Di-n-octyl phthalate	22.527	149	4028194	40.294	ng	100
87) Indeno(1,2,3-cd)pyrene	27.938	276	5214934	39.813	ng	100
88) Benzo(b)fluoranthene	23.538	252	4531635	39.990	ng	100
89) Benzo(k)fluoranthene	23.603	252	4654634	39.586	ng	100
90) Benzo(a)pyrene	24.356	252	4259750	40.157	ng	100
91) Dibenzo(a,h)anthracene	28.003	278	4396741	39.857	ng	100
92) Benzo(g,h,i)perylene	29.009	276	4131353	39.626	ng	100

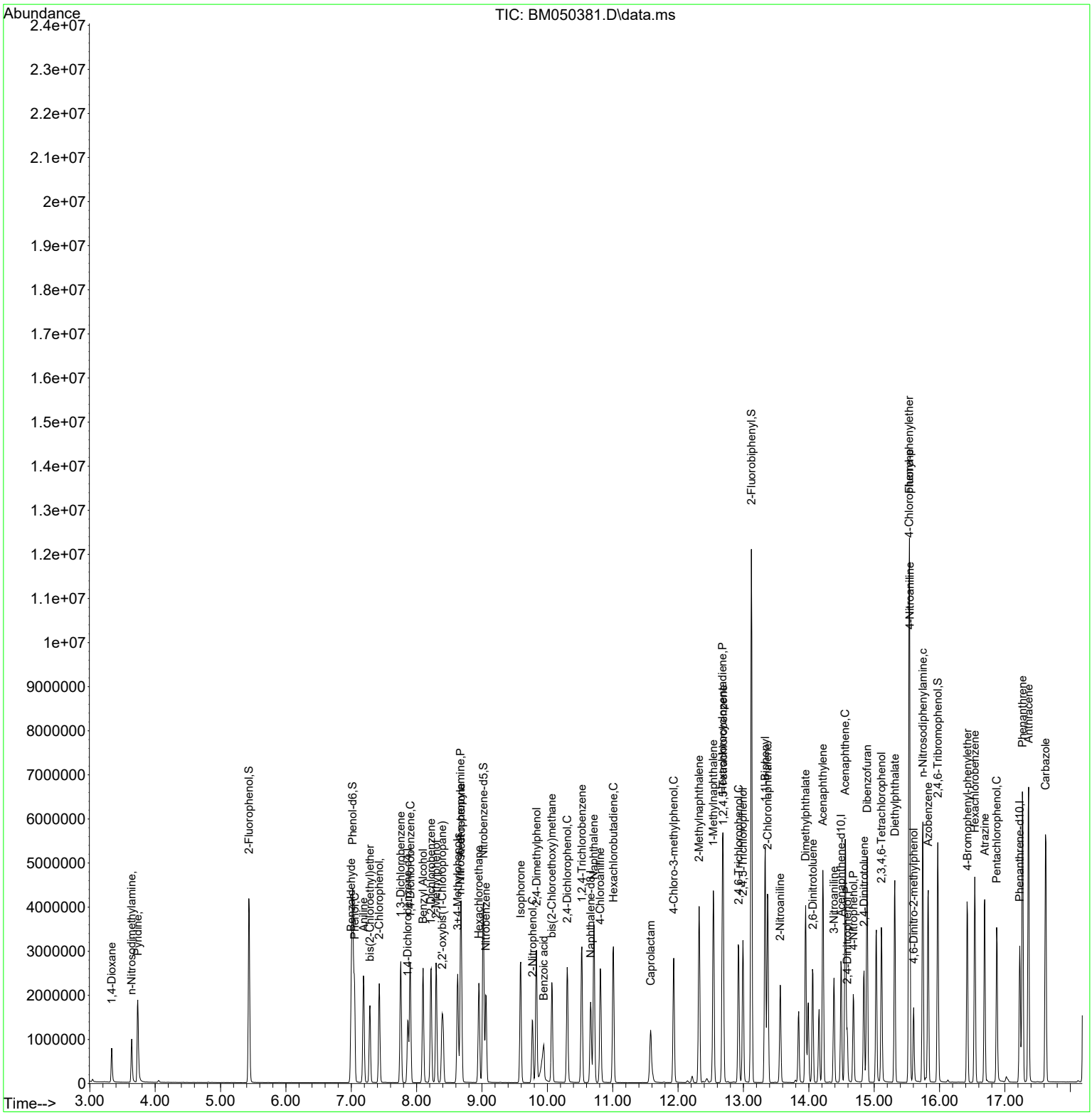
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050381.D
Acq On : 08 Jul 2025 15:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 08 18:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



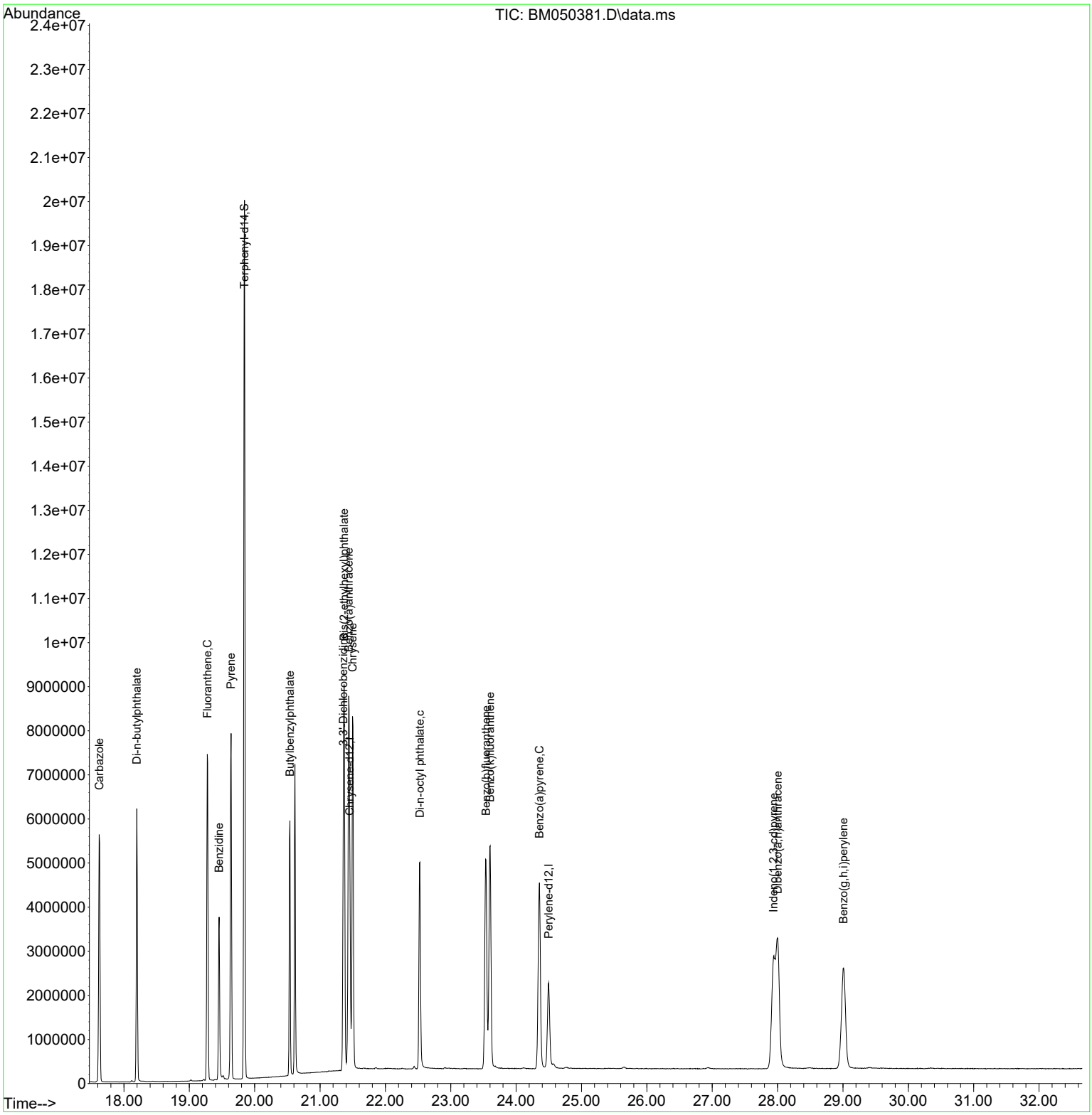
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050381.D
Acq On : 08 Jul 2025 15:20
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

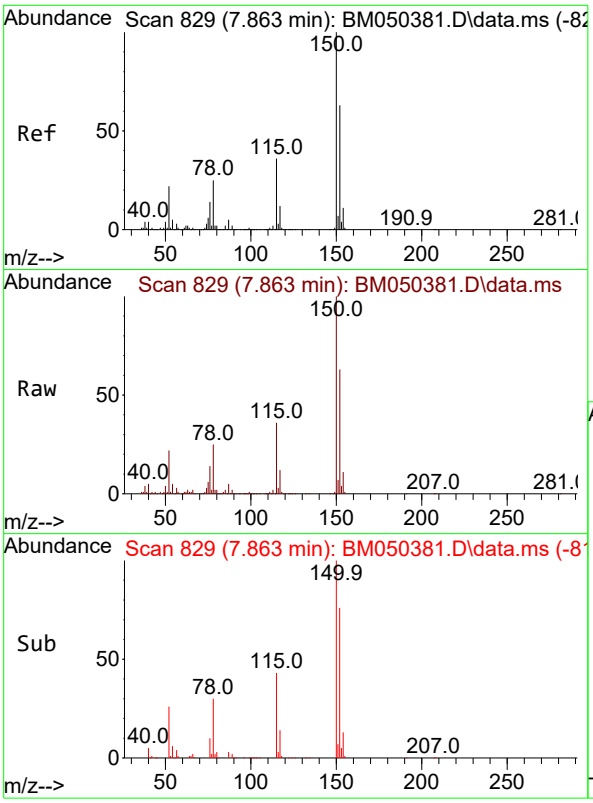
Quant Time: Jul 08 18:22:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

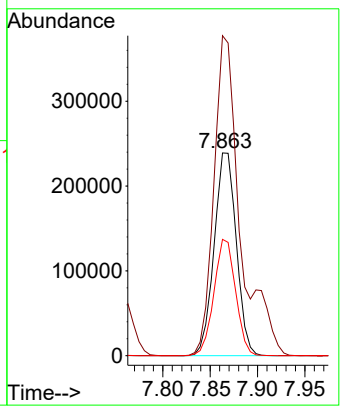




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:152 Resp: 39008

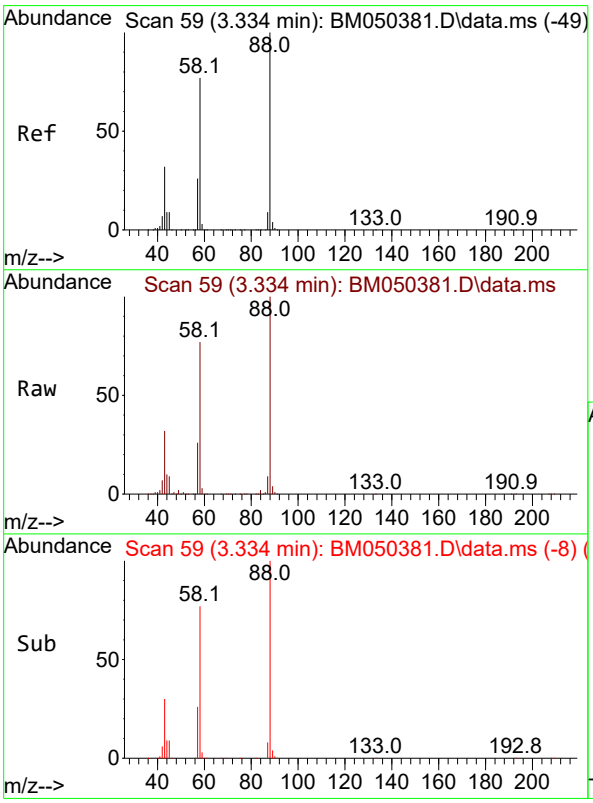
Ion	Ratio	Lower	Upper
152	100		
150	157.8	126.2	189.4
115	57.3	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

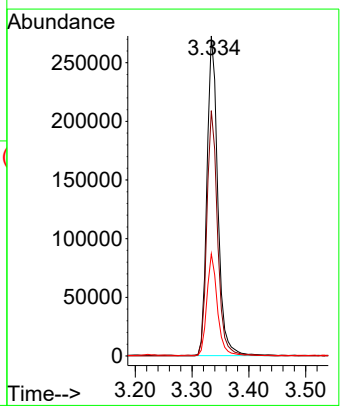
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

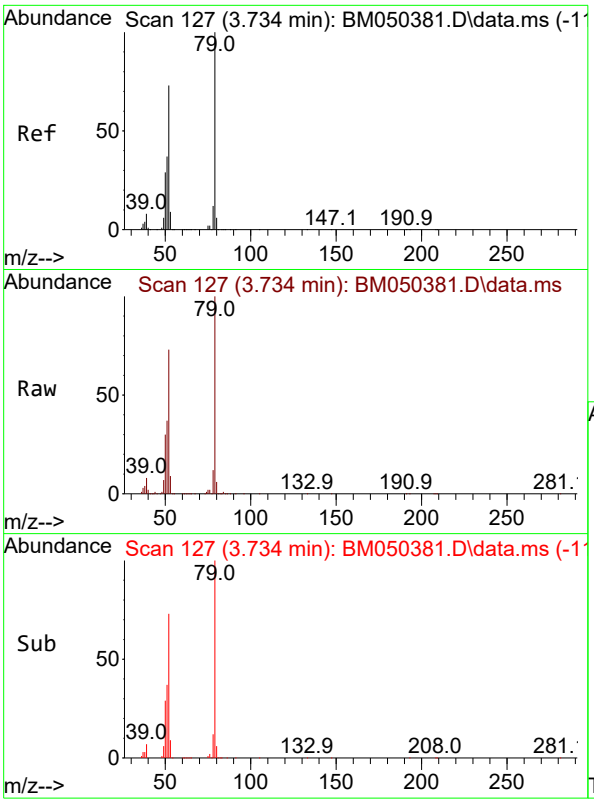


#2
1,4-Dioxane
Concen: 38.479 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 88 Resp: 358574

Ion	Ratio	Lower	Upper
88	100		
58	76.3	61.0	91.6
43	30.8	24.6	37.0

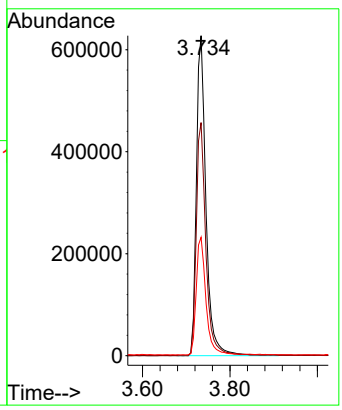




#3
Pyridine
Concen: 39.152 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 79 Resp: 95784

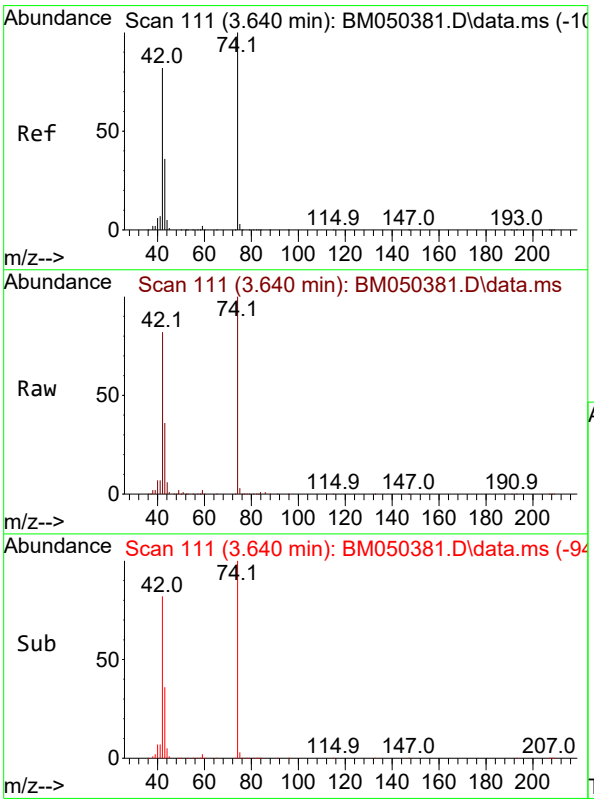
Ion	Ratio	Lower	Upper
79	100		
52	72.9	58.3	87.5
51	37.0	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

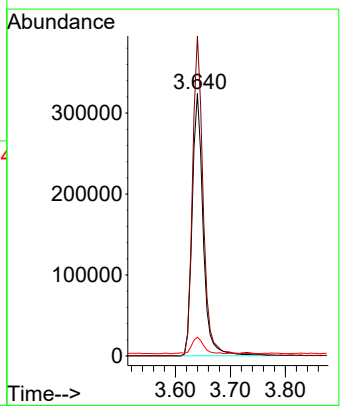
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

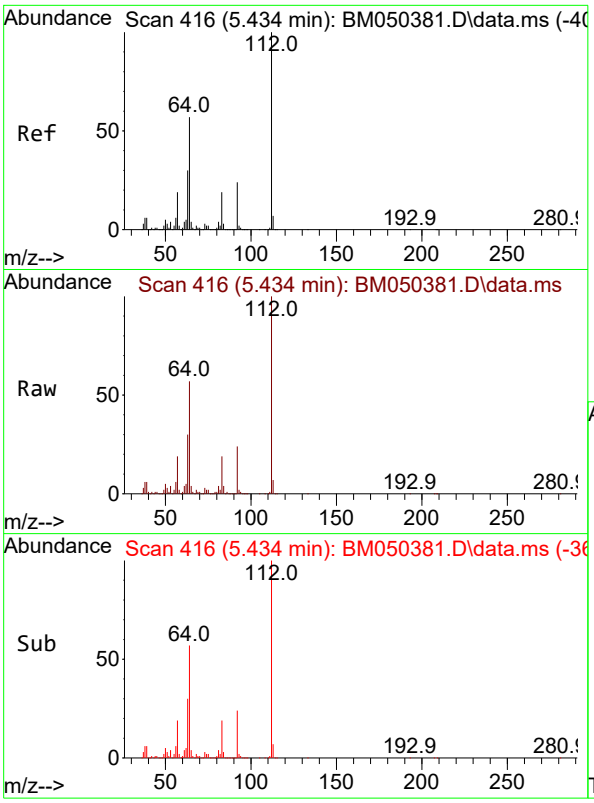


#4
n-Nitrosodimethylamine
Concen: 39.127 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 42 Resp: 446254

Ion	Ratio	Lower	Upper
42	100		
74	121.9	97.5	146.3
44	7.1	5.7	8.5

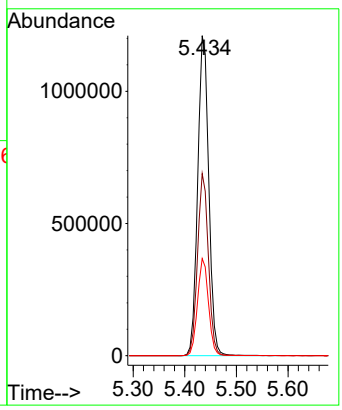




#5
2-Fluorophenol
Concen: 79.307 ng
RT: 5.434 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:112 Resp: 179725

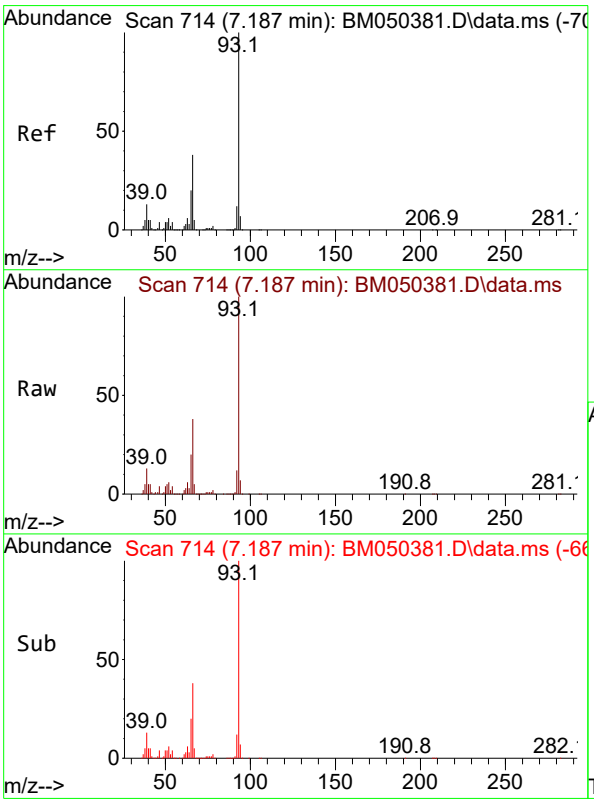
Ion	Ratio	Lower	Upper
112	100		
64	56.9	45.5	68.3
63	30.3	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

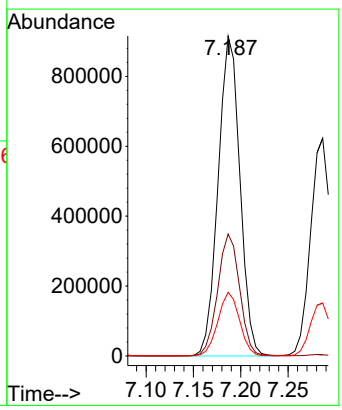
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

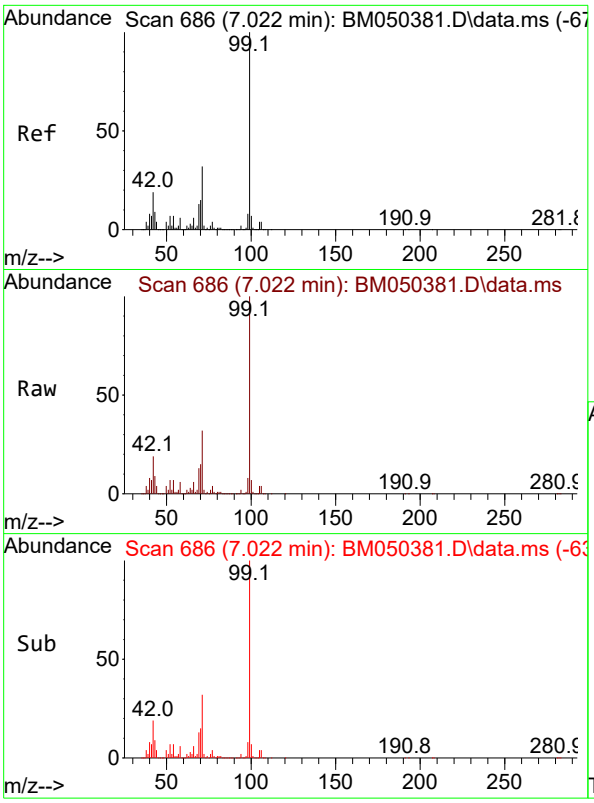


#6
Aniline
Concen: 39.971 ng
RT: 7.187 min Scan# 714
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 93 Resp: 1465425

Ion	Ratio	Lower	Upper
93	100		
66	38.1	30.5	45.7
65	19.9	15.9	23.9

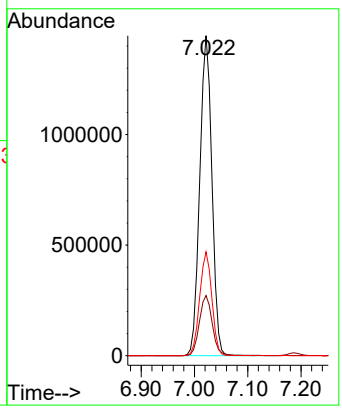




#7
Phenol-d6
Concen: 80.057 ng
RT: 7.022 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 99 Resp: 228707

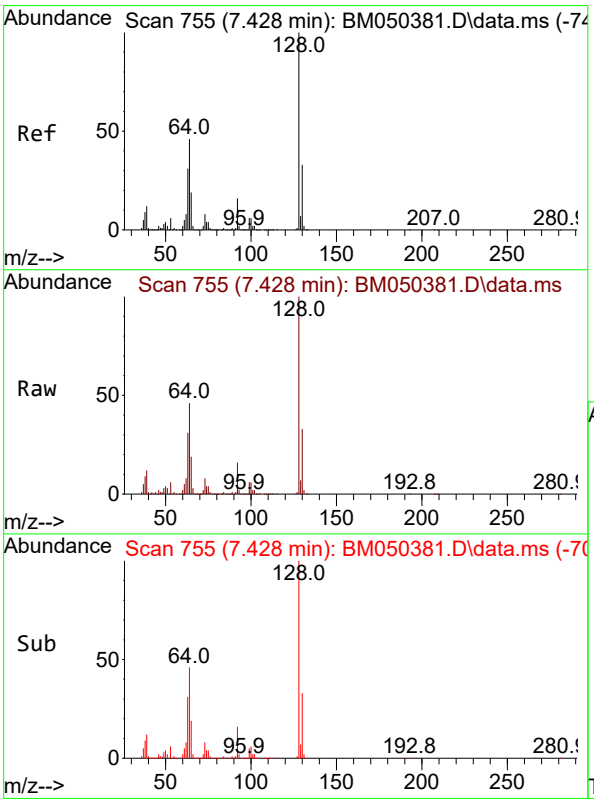
Ion	Ratio	Lower	Upper
99	100		
42	18.8	15.0	22.6
71	32.4	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

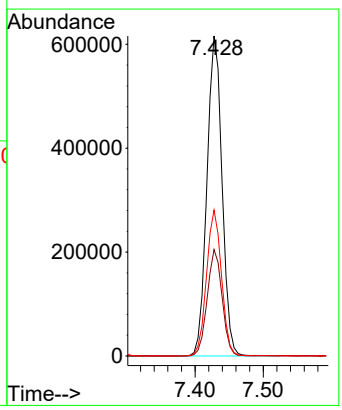
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

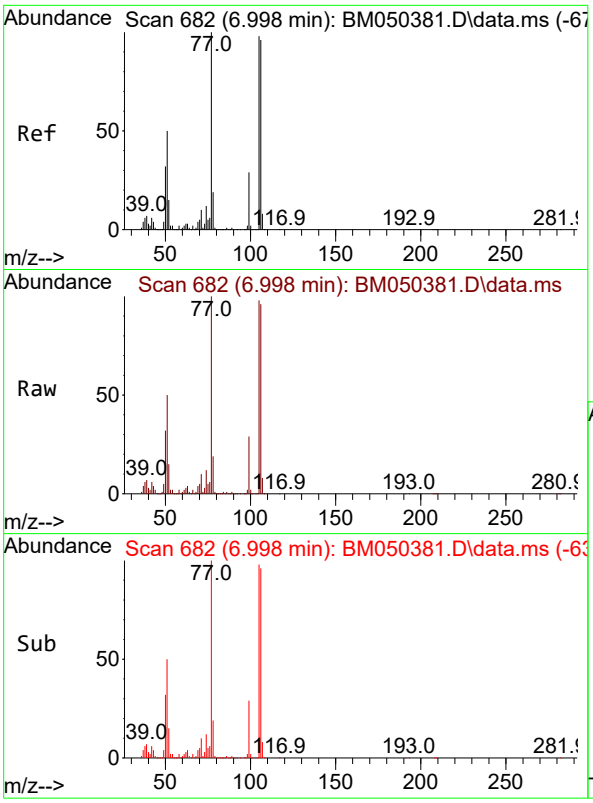


#8
2-Chlorophenol
Concen: 39.725 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:128 Resp: 949275

Ion	Ratio	Lower	Upper
128	100		
130	33.3	13.3	53.3
64	45.6	25.6	65.6

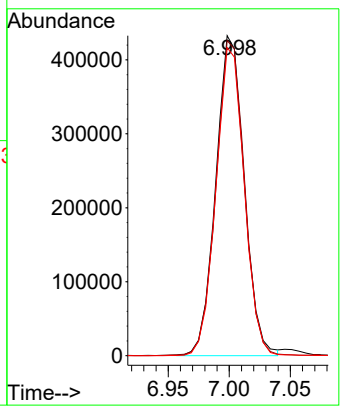




#9
Benzaldehyde
Concen: 41.183 ng m
RT: 6.998 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 77 Resp: 69993

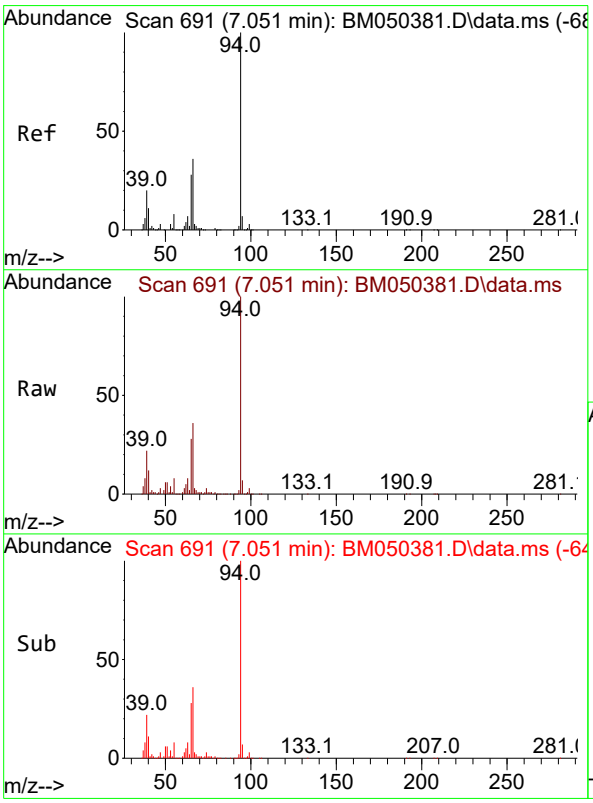
Ion	Ratio	Lower	Upper
77	100		
105	98.4	78.4	118.4
106	96.3	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

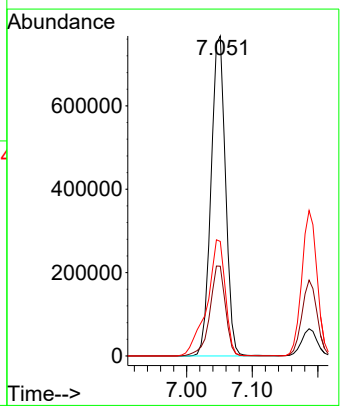
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

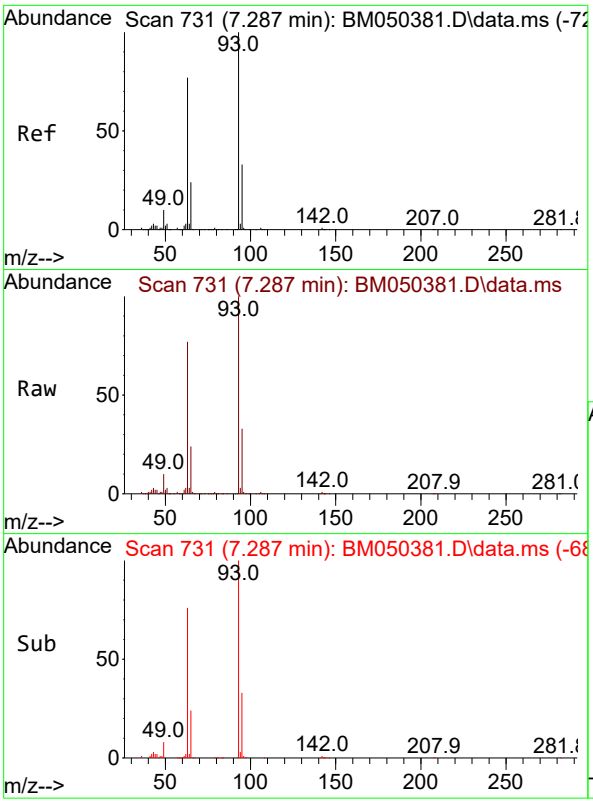


#10
Phenol
Concen: 39.486 ng
RT: 7.051 min Scan# 691
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 94 Resp: 1176548

Ion	Ratio	Lower	Upper
94	100		
65	28.1	8.1	48.1
66	35.8	15.8	55.8

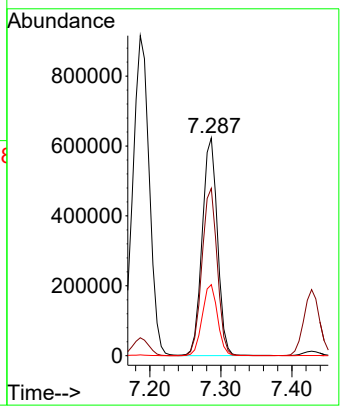




#11
bis(2-Chloroethyl)ether
Concen: 39.103 ng
RT: 7.287 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 93 Resp: 93309

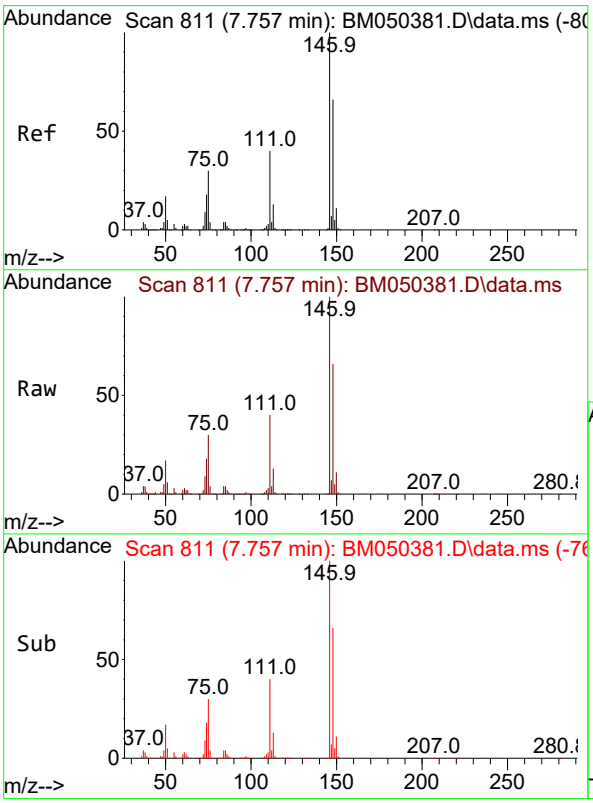
Ion	Ratio	Lower	Upper
93	100		
63	76.9	56.9	96.9
95	32.6	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

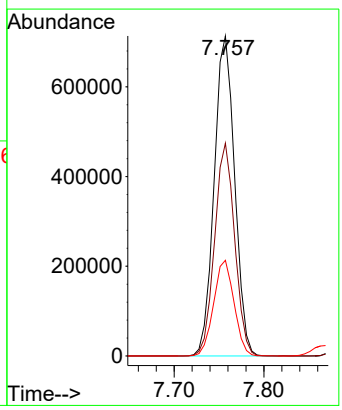
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

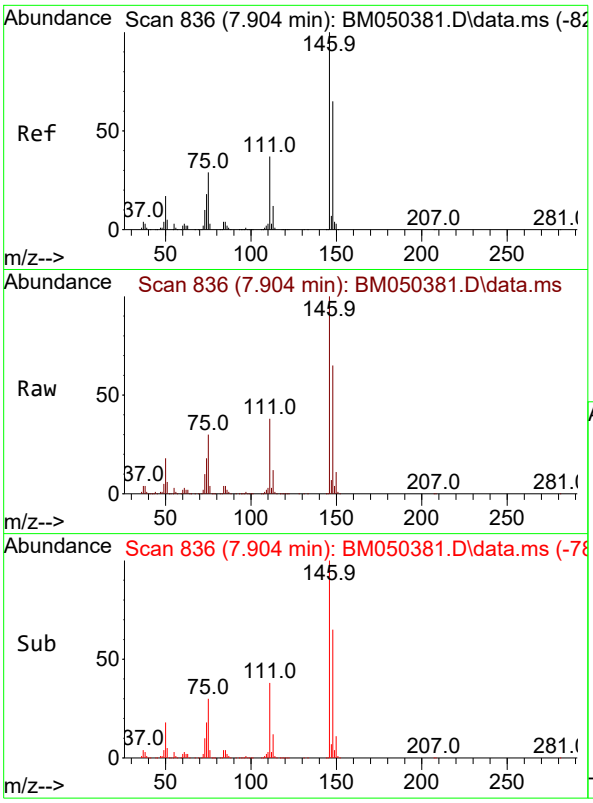


#12
1,3-Dichlorobenzene
Concen: 38.876 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:146 Resp: 1129597

Ion	Ratio	Lower	Upper
146	100		
148	66.5	53.2	79.8
75	29.9	23.9	35.9

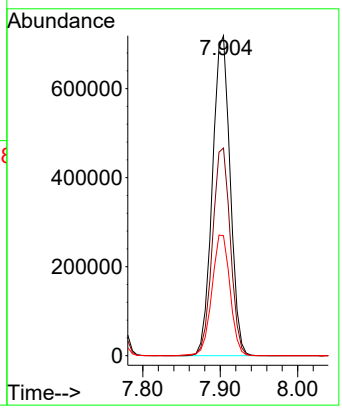




#13
1,4-Dichlorobenzene
Concen: 38.525 ng
RT: 7.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:146 Resp: 114302

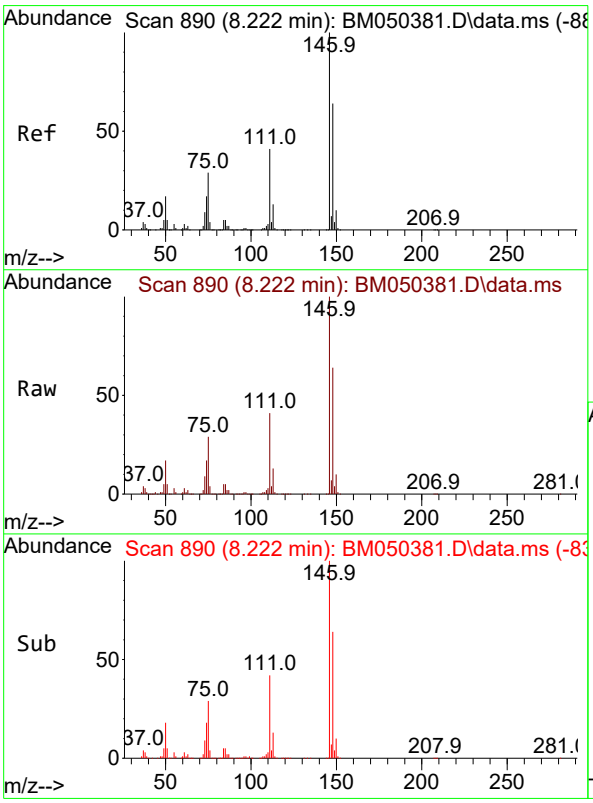
Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.9	77.9
111	37.5	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

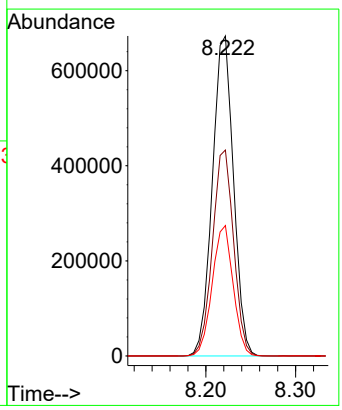
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

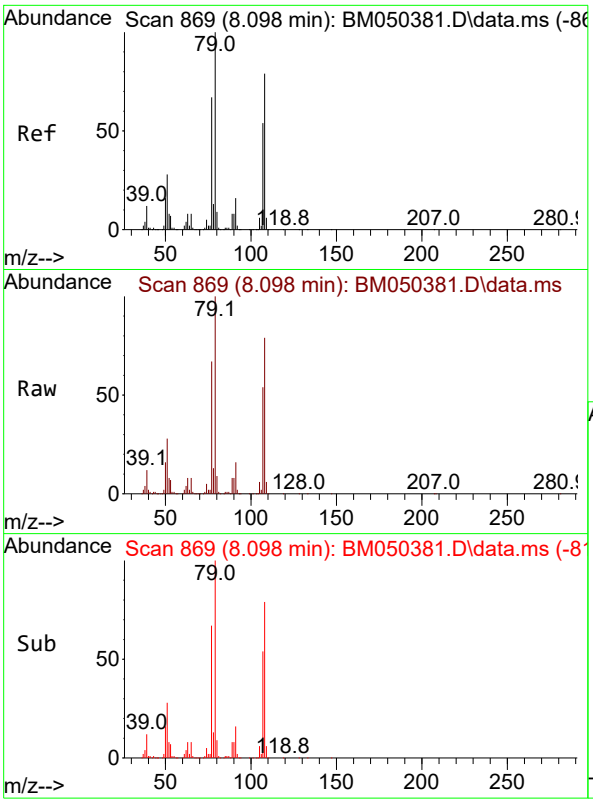


#14
1,2-Dichlorobenzene
Concen: 38.737 ng
RT: 8.222 min Scan# 890
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:146 Resp: 1100335

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.5	77.3
111	40.8	32.6	49.0





#15
Benzyl Alcohol
Concen: 39.610 ng
RT: 8.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

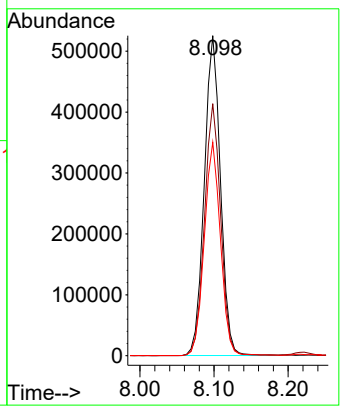
Tgt Ion: 79 Resp: 79730

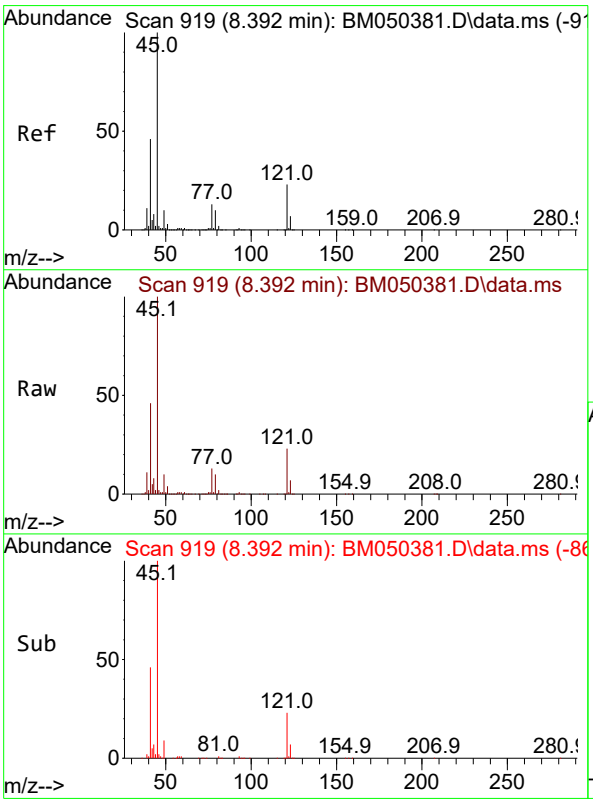
Ion	Ratio	Lower	Upper
79	100		
108	78.7	63.0	94.4
77	66.7	53.4	80.0

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

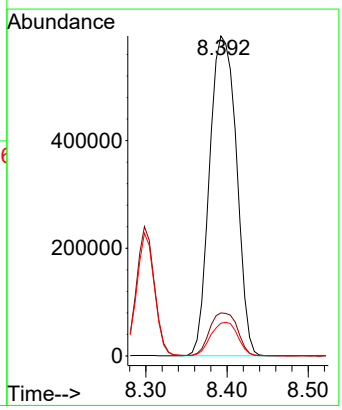


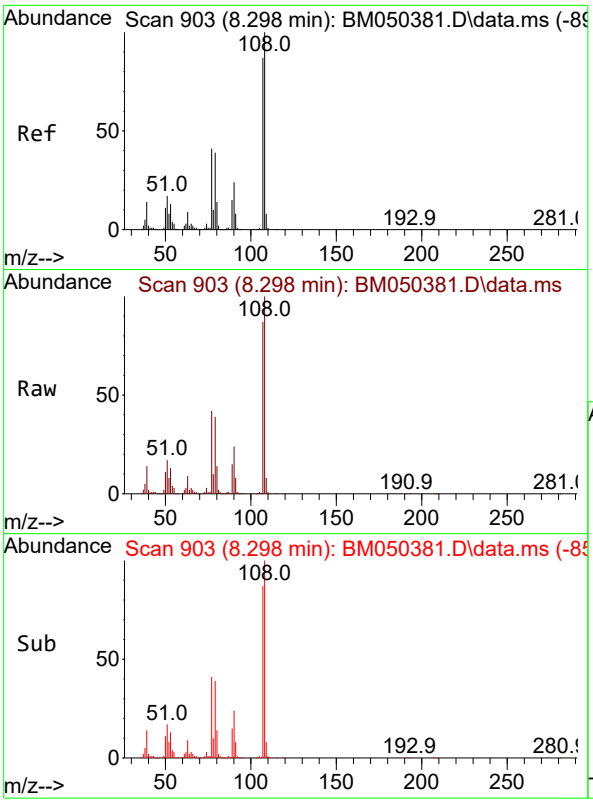


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.896 ng
RT: 8.392 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 45 Resp: 1367157

Ion	Ratio	Lower	Upper
45	100		
77	13.5	0.0	33.5
79	10.3	0.0	30.3

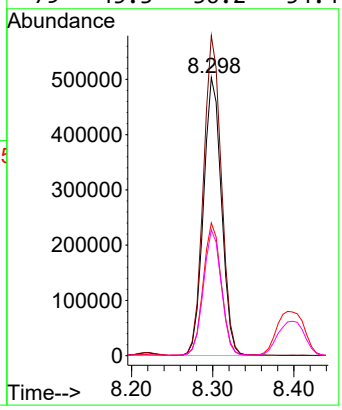




#17
2-Methylphenol
Concen: 39.981 ng
RT: 8.298 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

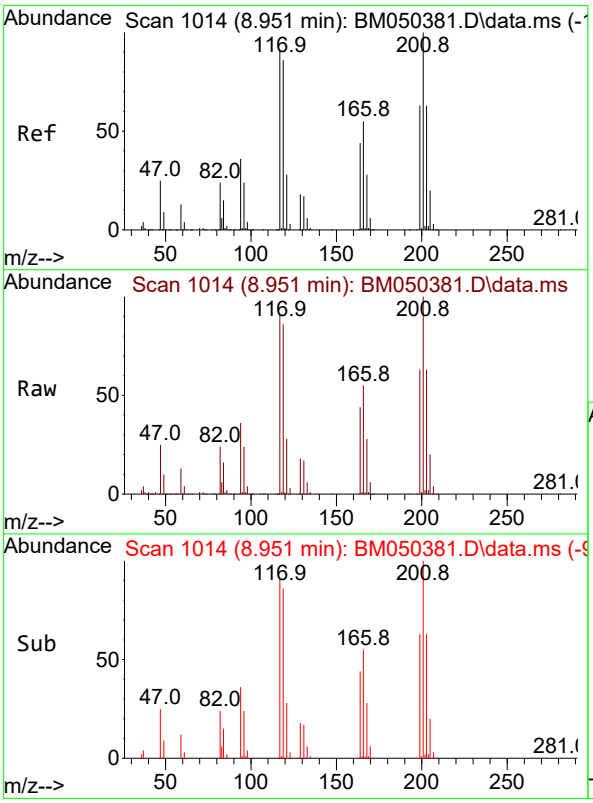
Tgt Ion:107 Resp: 77266

Ion	Ratio	Lower	Upper
107	100		
108	115.1	92.1	138.1
77	47.8	38.2	57.4
79	45.3	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

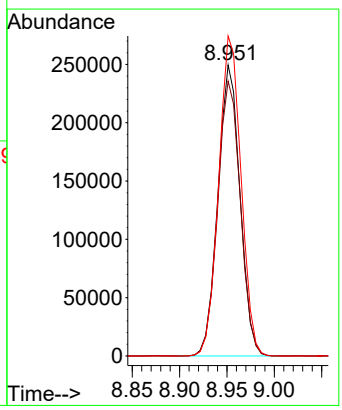
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

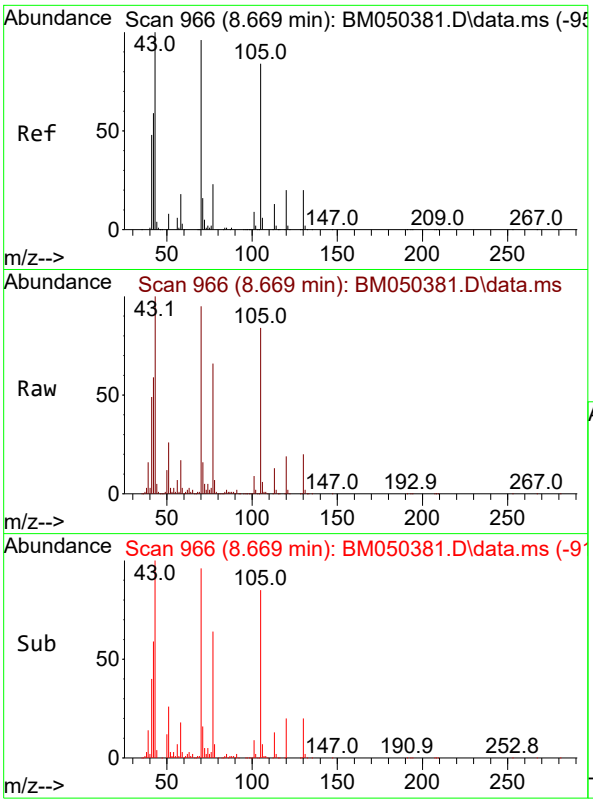


#18
Hexachloroethane
Concen: 38.914 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:117 Resp: 406049

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
201	109.9	87.9	131.9

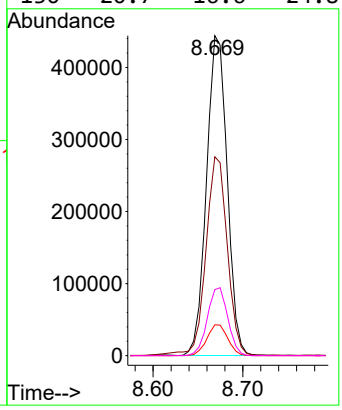




#19
n-Nitroso-di-n-propylamine
Concen: 41.065 ng
RT: 8.669 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 70 Resp: 71069

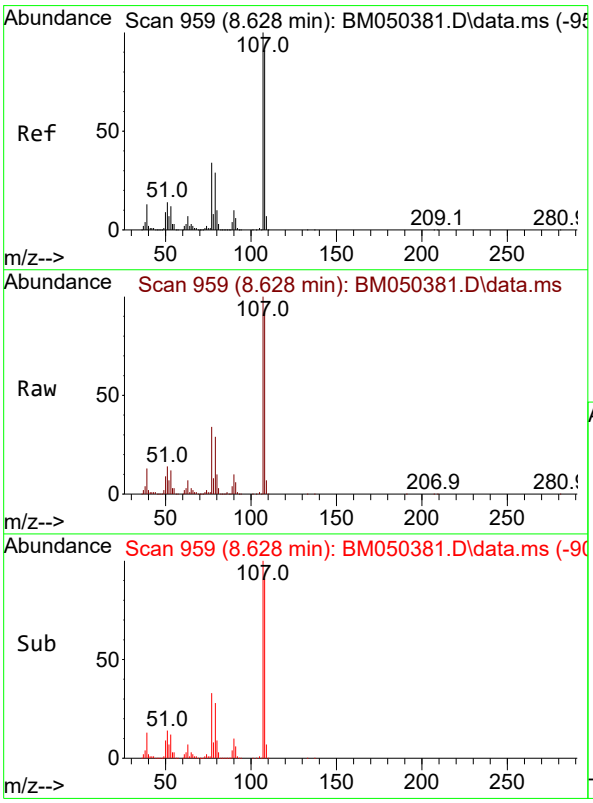
Ion	Ratio	Lower	Upper
70	100		
42	62.1	49.7	74.5
101	9.6	7.7	11.5
130	20.7	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

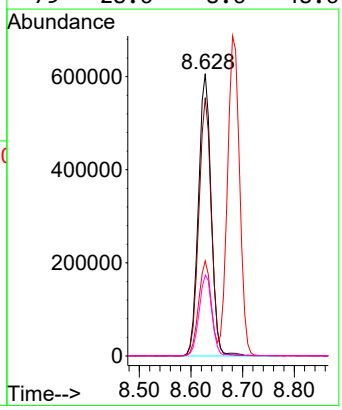
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

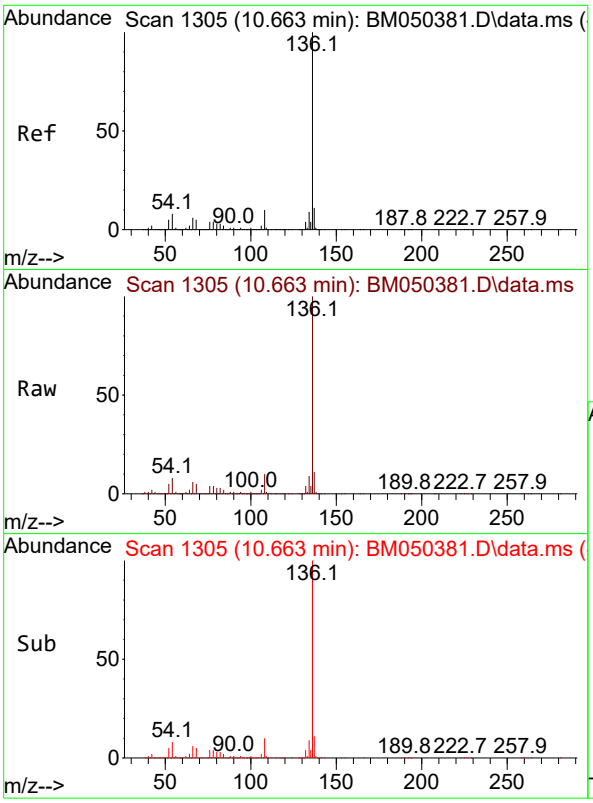


#20
3+4-Methylphenols
Concen: 39.847 ng
RT: 8.628 min Scan# 959
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:107 Resp: 1033775

Ion	Ratio	Lower	Upper
107	100		
108	91.5	71.5	111.5
77	33.7	13.7	53.7
79	28.6	8.6	48.6

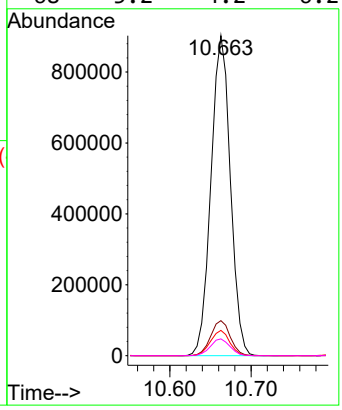




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:136 Resp: 149831

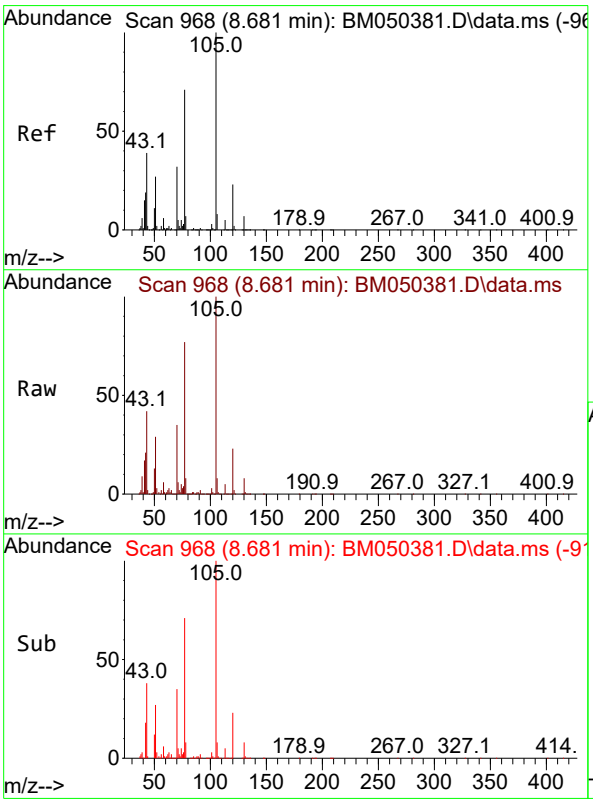
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.9	6.3	9.5
68	5.2	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

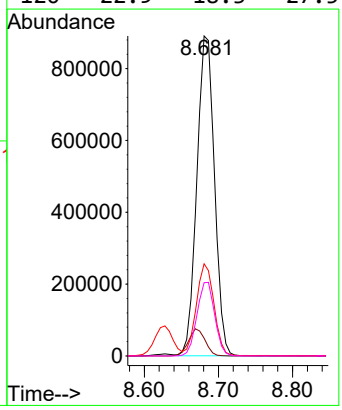
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

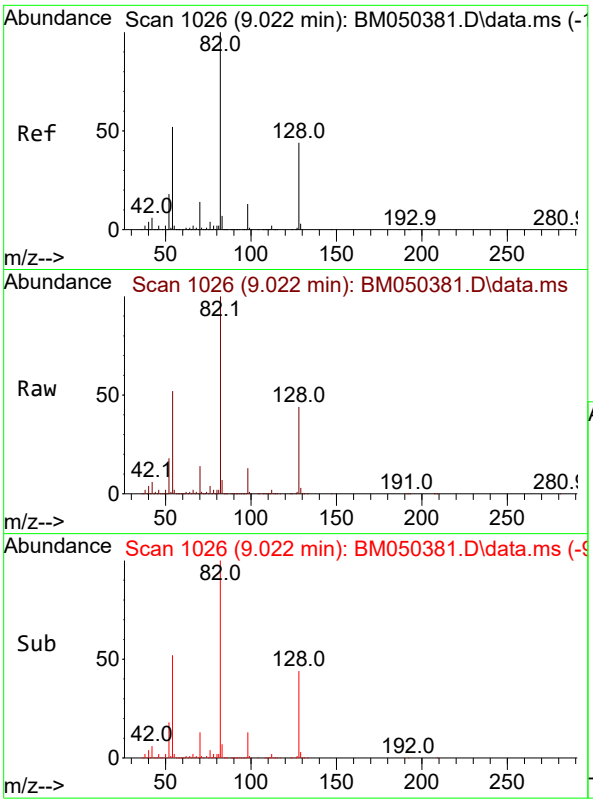


#22
Acetophenone
Concen: 39.290 ng
RT: 8.681 min Scan# 968
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:105 Resp: 1471867

Ion	Ratio	Lower	Upper
105	100		
71	5.5	4.4	6.6
51	28.8	23.0	34.6
120	22.9	18.3	27.5





#23
Nitrobenzene-d5
Concen: 80.025 ng
RT: 9.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

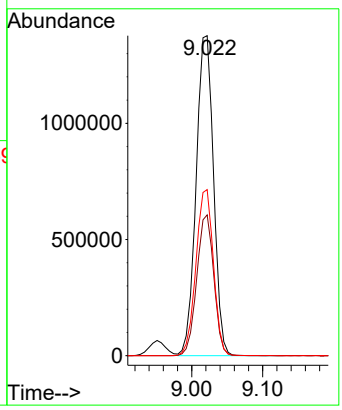
Tgt Ion: 82 Resp: 235020

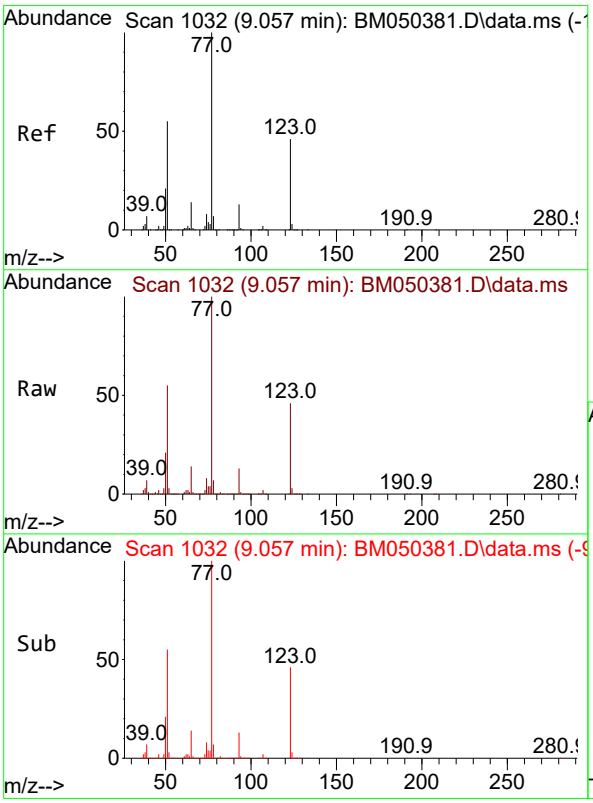
Ion	Ratio	Lower	Upper
82	100		
128	44.0	35.2	52.8
54	51.9	41.5	62.3

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

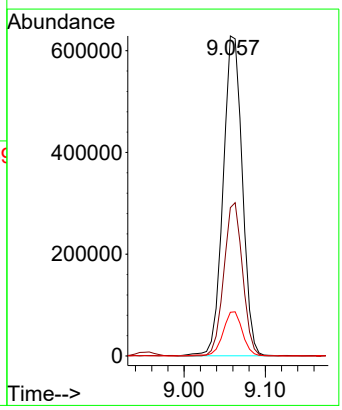


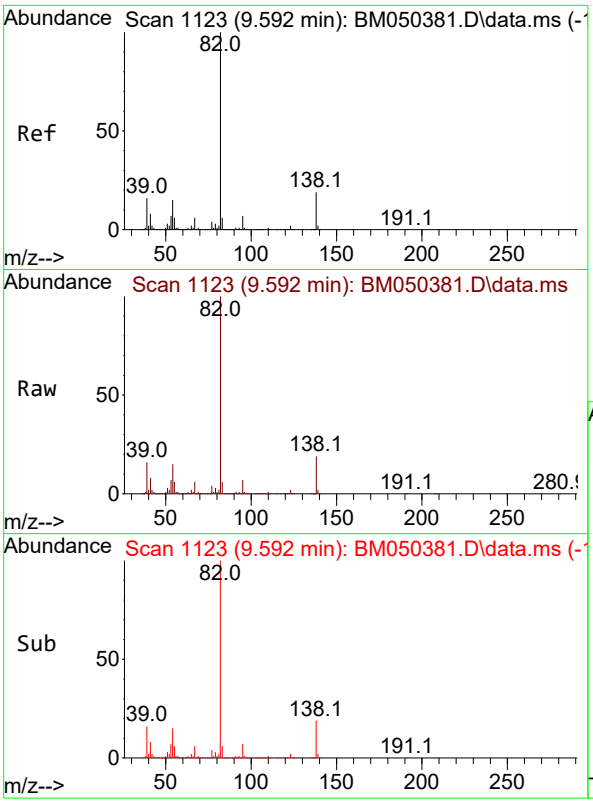


#24
Nitrobenzene
Concen: 39.463 ng
RT: 9.057 min Scan# 1032
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 77 Resp: 1034216

Ion	Ratio	Lower	Upper
77	100		
123	46.3	37.0	55.6
65	13.7	11.0	16.4

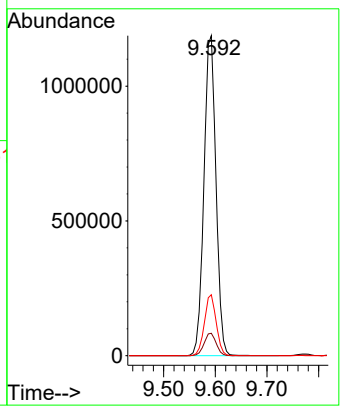




#25
Isophorone
Concen: 40.218 ng
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 82 Resp: 191660

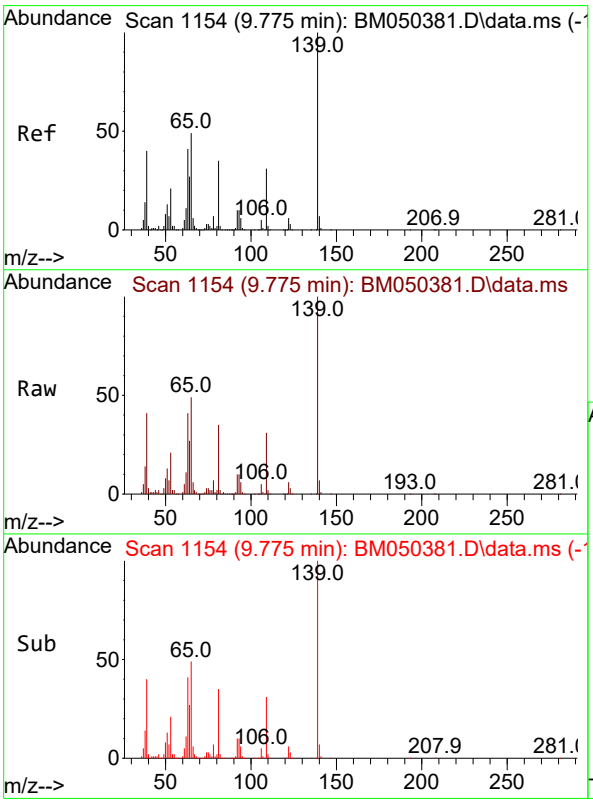
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	19.1	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

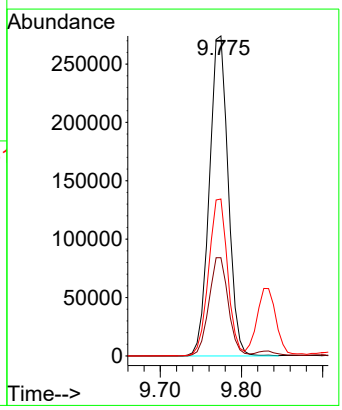
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

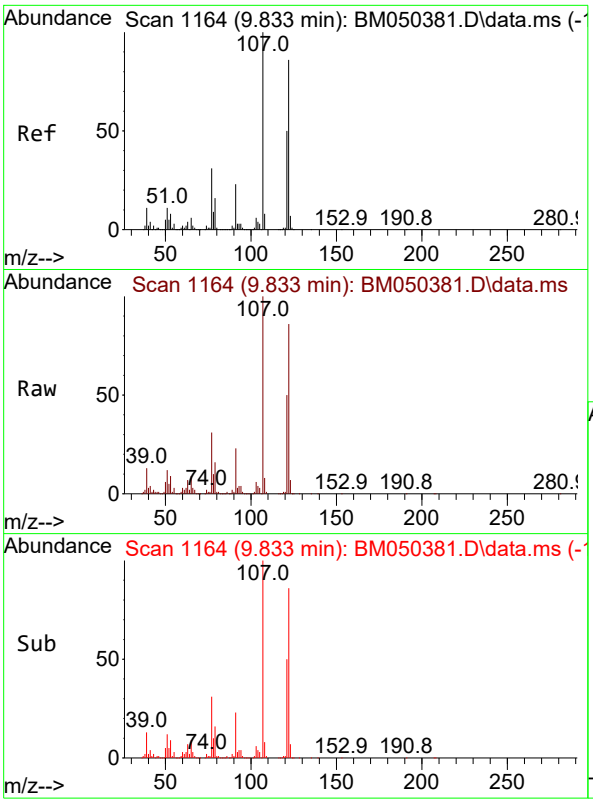


#26
2-Nitrophenol
Concen: 41.266 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:139 Resp: 440758

Ion	Ratio	Lower	Upper
139	100		
109	30.7	24.6	36.8
65	49.0	39.2	58.8

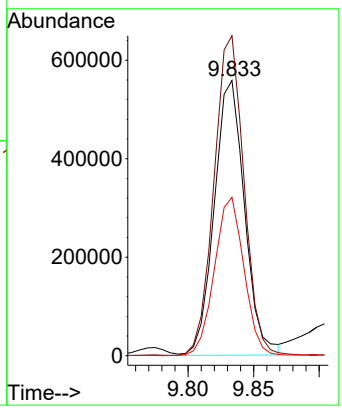




#27
2,4-Dimethylphenol
Concen: 39.384 ng
RT: 9.833 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:122 Resp: 89511

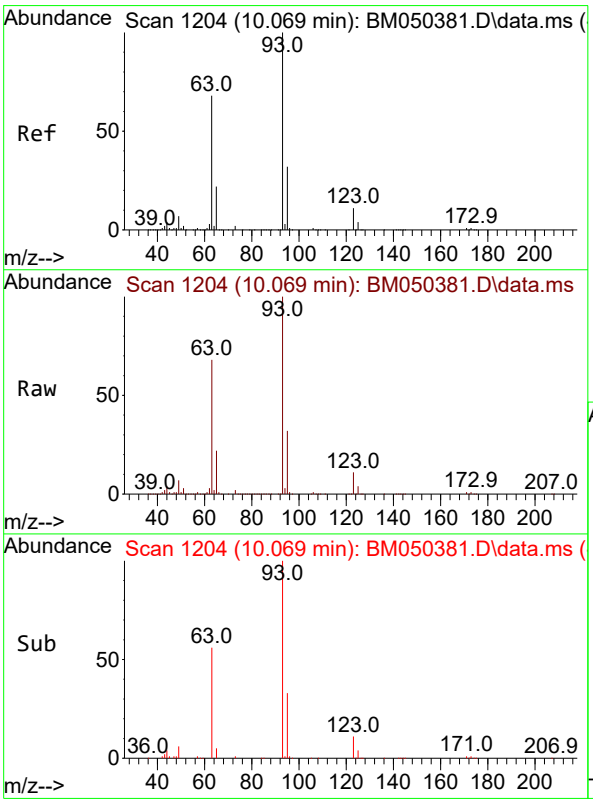
Ion	Ratio	Lower	Upper
122	100		
107	116.3	93.0	139.6
121	57.6	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

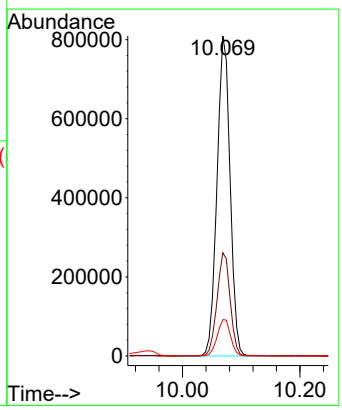
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

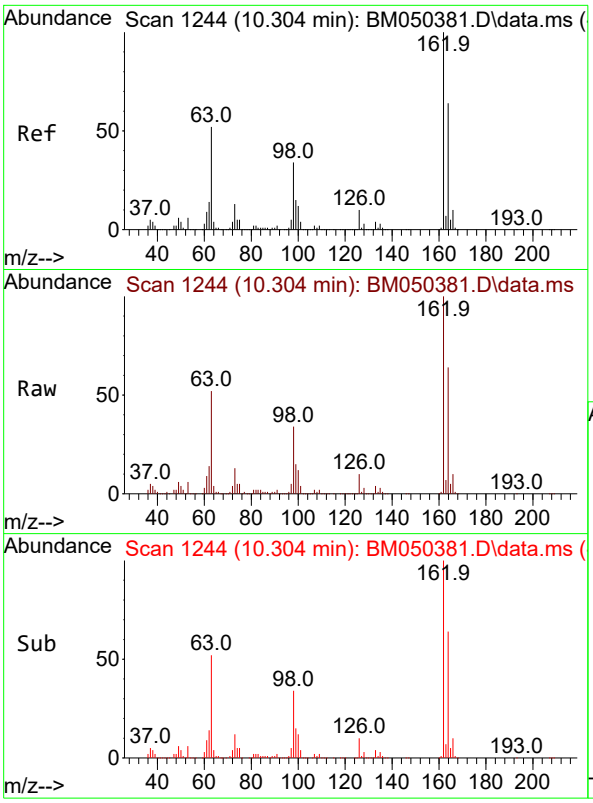


#28
bis(2-Chloroethoxy)methane
Concen: 39.577 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 93 Resp: 1249755

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.8	38.6
123	11.4	9.1	13.7

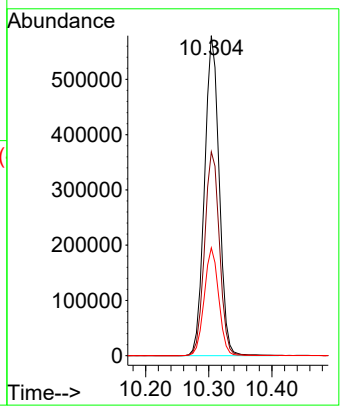




#29
2,4-Dichlorophenol
Concen: 40.040 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

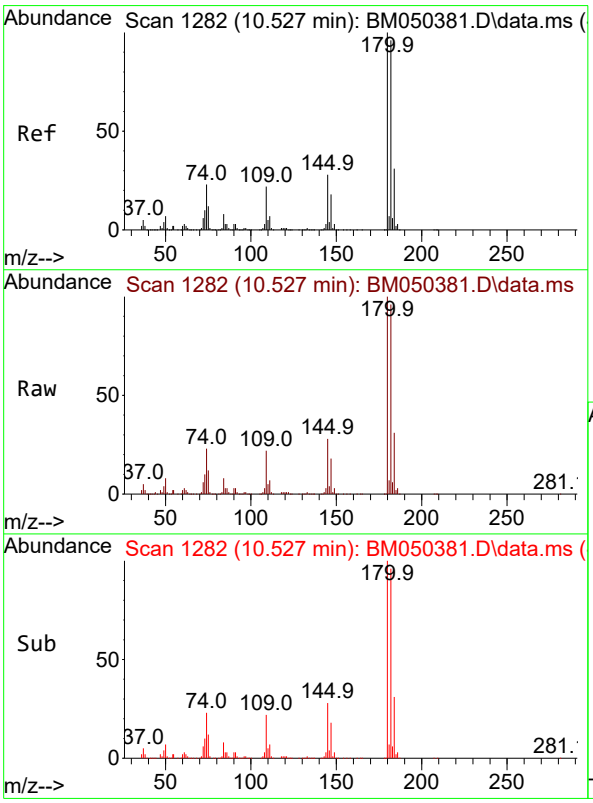
Tgt Ion:162 Resp: 93492

Ion	Ratio	Lower	Upper
162	100		
164	63.7	43.7	83.7
98	33.7	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

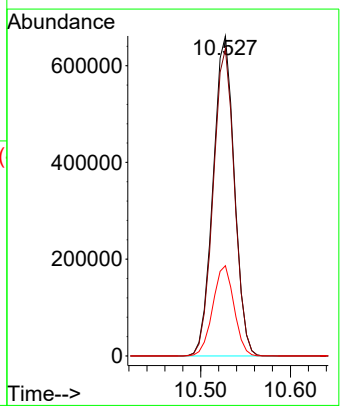
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

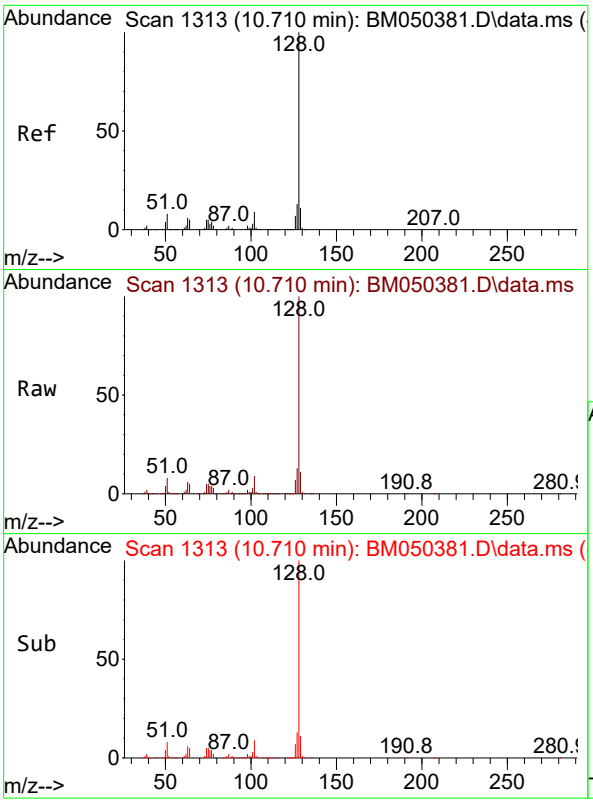


#30
1,2,4-Trichlorobenzene
Concen: 38.850 ng
RT: 10.527 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:180 Resp: 1085193

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.8	115.2
145	28.2	22.6	33.8

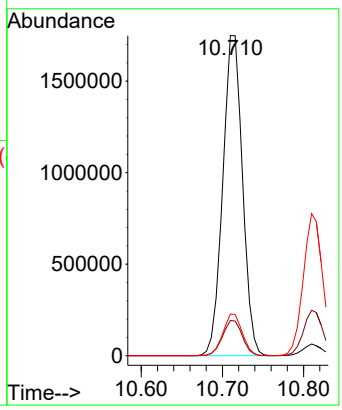




#31
Naphthalene
Concen: 38.905 ng
RT: 10.710 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:128 Resp: 296080

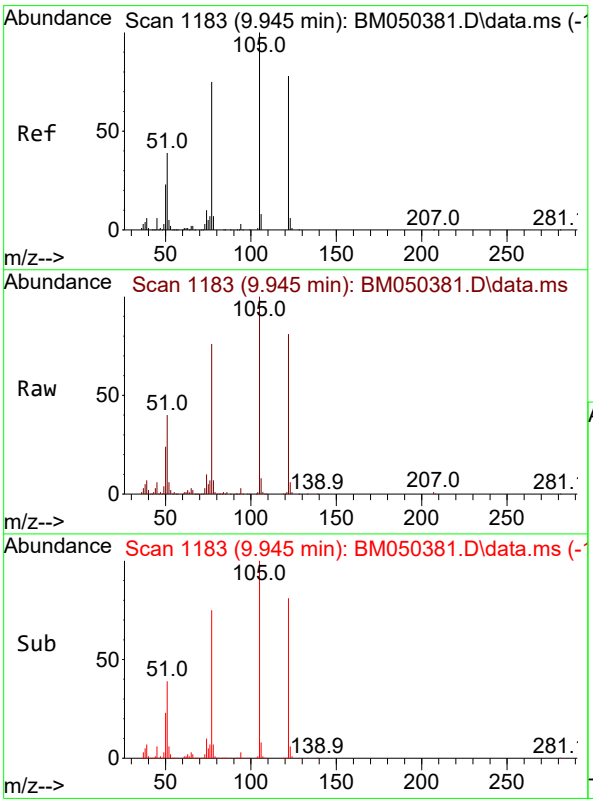
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

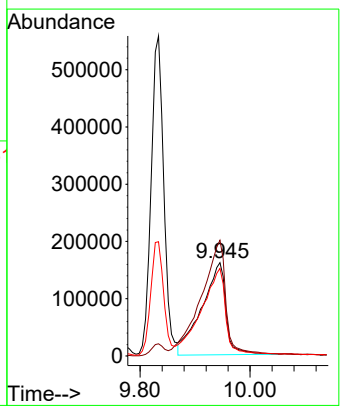
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

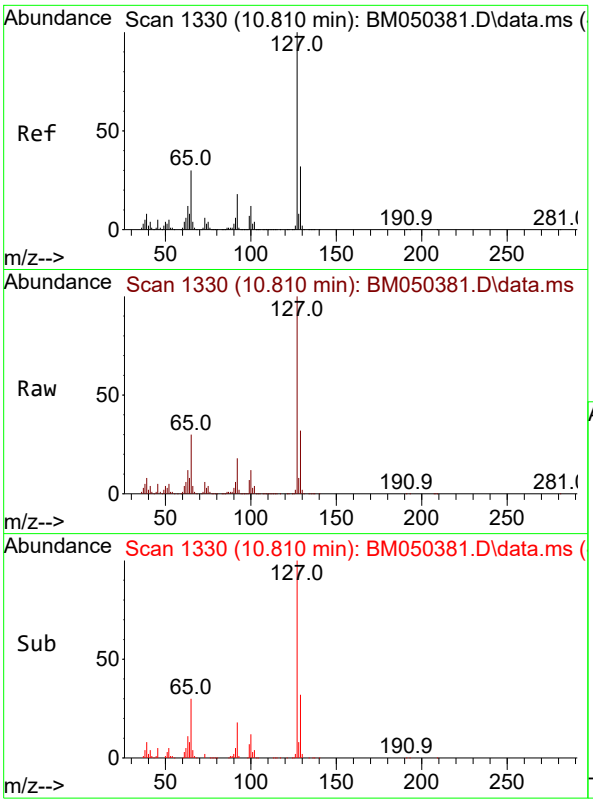


#32
Benzoic acid
Concen: 36.793 ng
RT: 9.945 min Scan# 1183
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:122 Resp: 491059

Ion	Ratio	Lower	Upper
122	100		
105	124.0	104.0	144.0
77	93.8	73.8	113.8

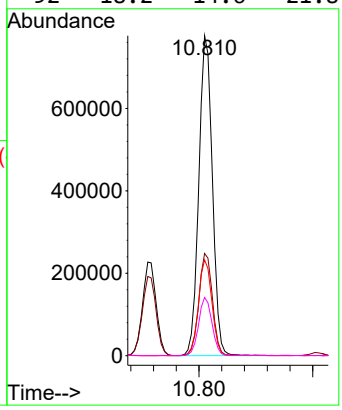




#33
4-Chloroaniline
Concen: 39.947 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:127 Resp: 128522

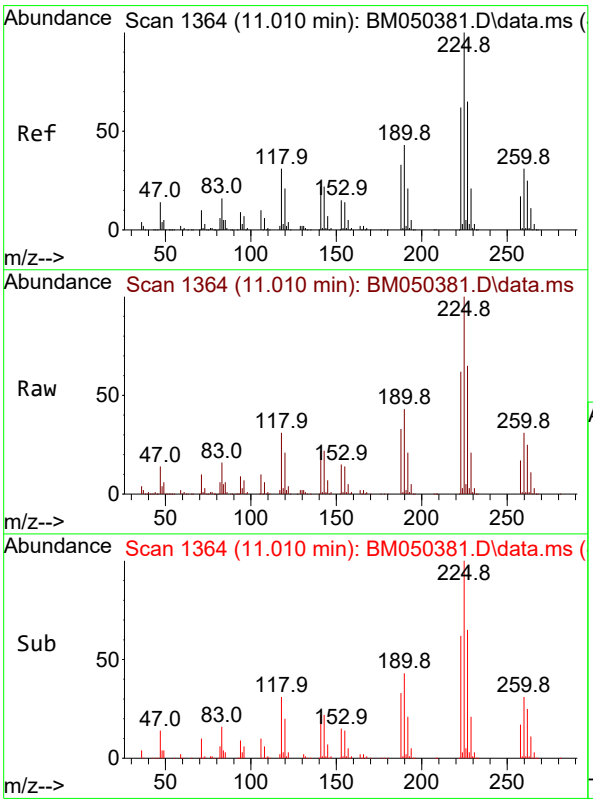
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.5	38.3
65	29.9	23.9	35.9
92	18.2	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

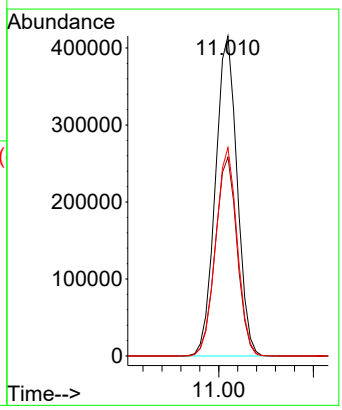
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

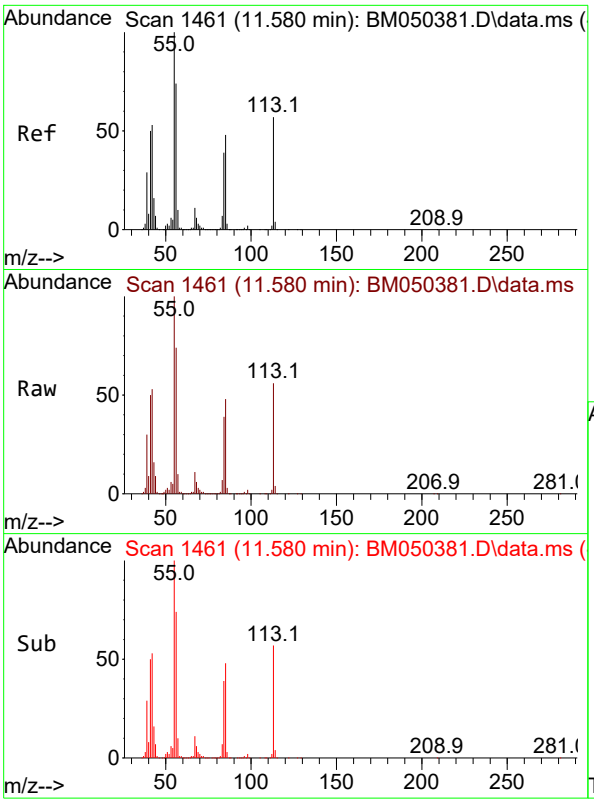


#34
Hexachlorobutadiene
Concen: 38.844 ng
RT: 11.010 min Scan# 1364
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:225 Resp: 662229

Ion	Ratio	Lower	Upper
225	100		
223	62.1	49.7	74.5
227	65.1	52.1	78.1

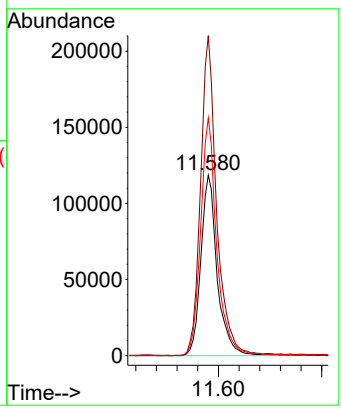




#35
Caprolactam
Concen: 40.791 ng
RT: 11.580 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

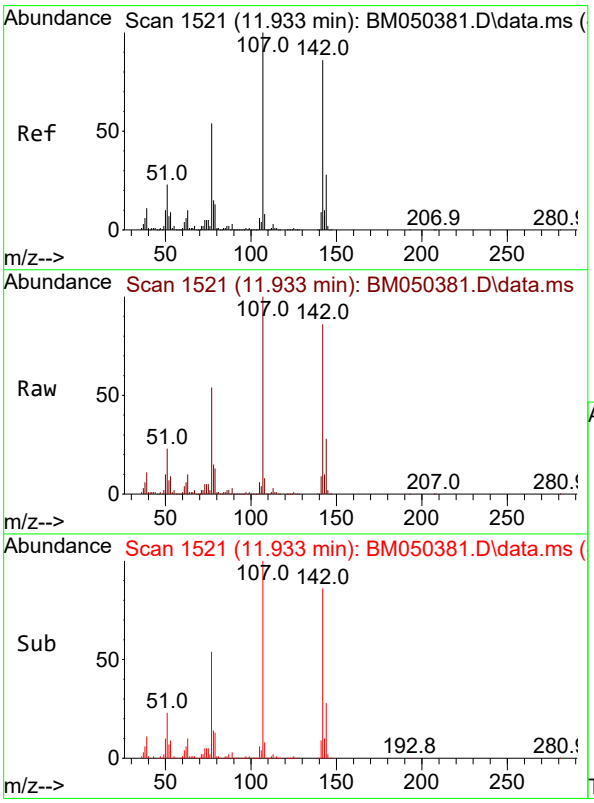
Tgt Ion:113 Resp: 26001

Ion	Ratio	Lower	Upper
113	100		
55	177.2	157.2	197.2
56	131.7	111.7	151.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

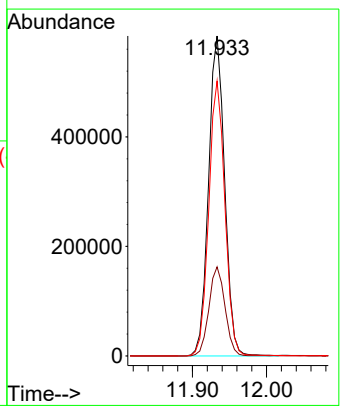
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

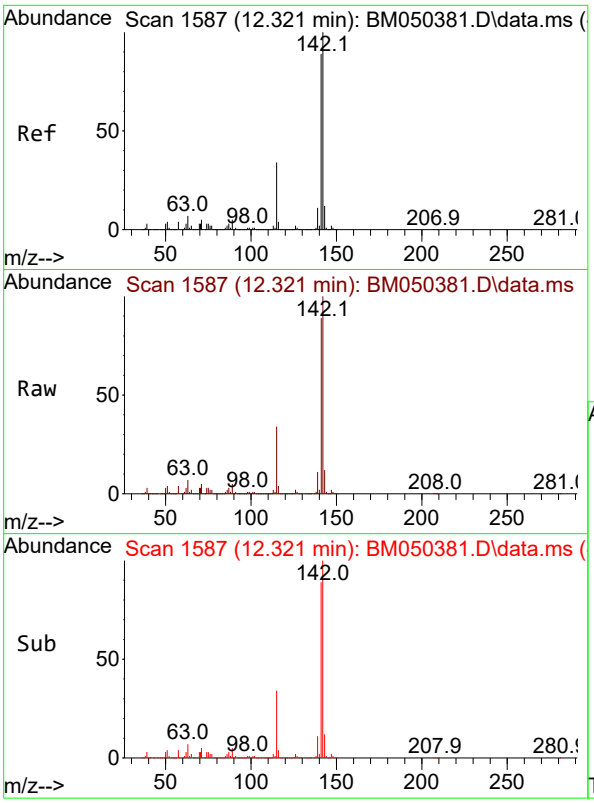


#36
4-Chloro-3-methylphenol
Concen: 40.538 ng
RT: 11.933 min Scan# 1521
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:107 Resp: 883903

Ion	Ratio	Lower	Upper
107	100		
144	27.8	22.2	33.4
142	85.9	68.7	103.1

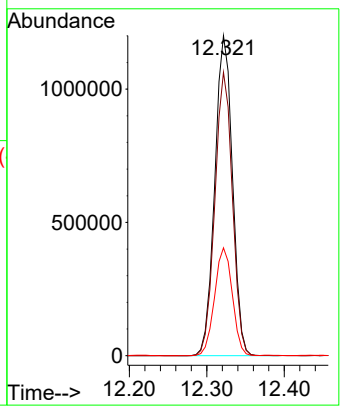




#37
2-Methylnaphthalene
Concen: 39.576 ng
RT: 12.321 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:142 Resp: 190170

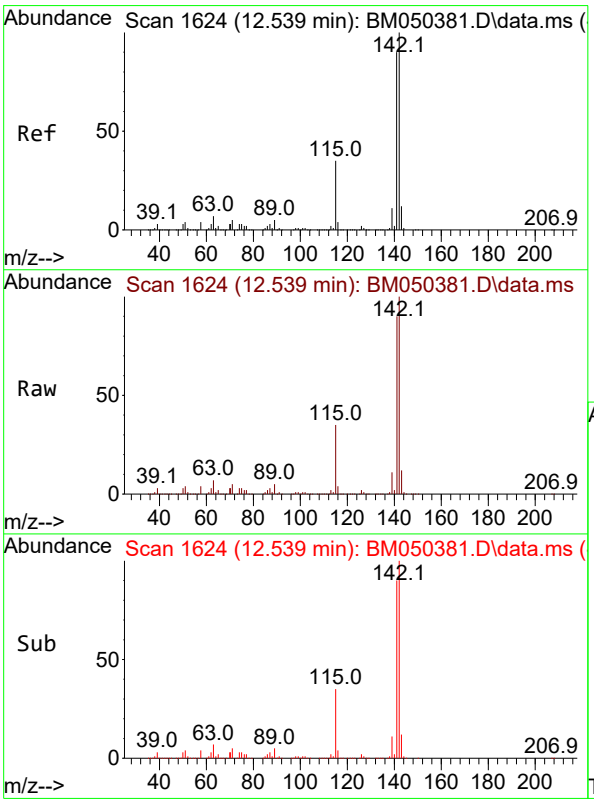
Ion	Ratio	Lower	Upper
142	100		
141	88.5	70.8	106.2
115	33.7	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

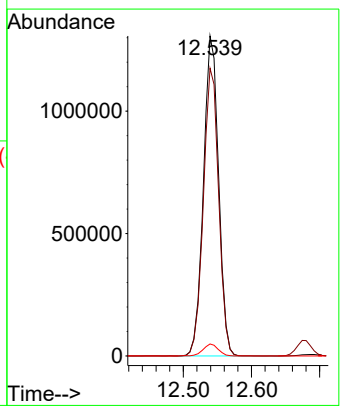
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

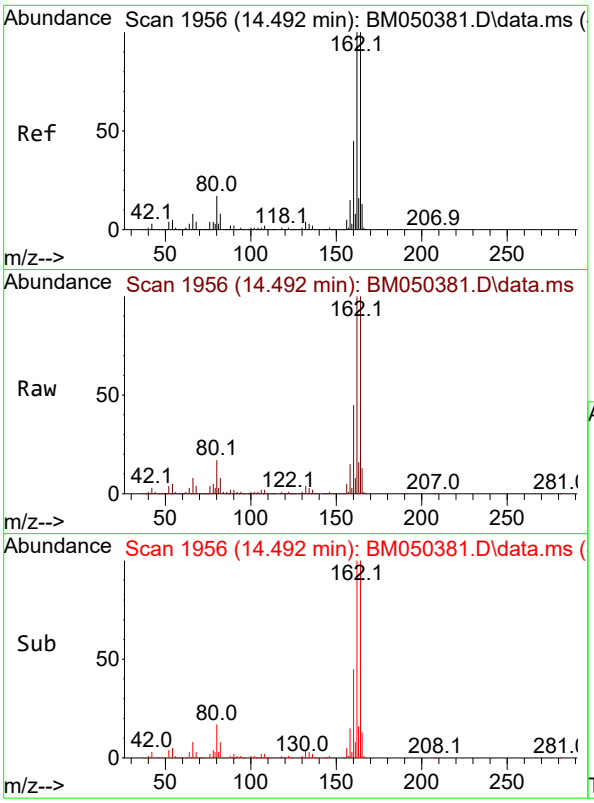


#38
1-Methylnaphthalene
Concen: 39.665 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:142 Resp: 2017118

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.9	107.9
116	3.8	3.0	4.6

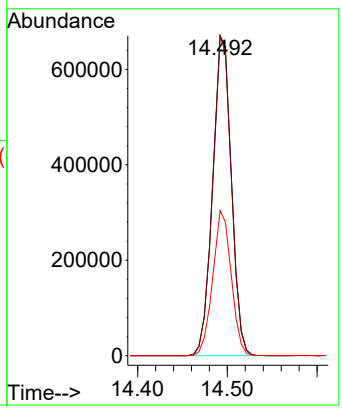




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:164 Resp: 96707

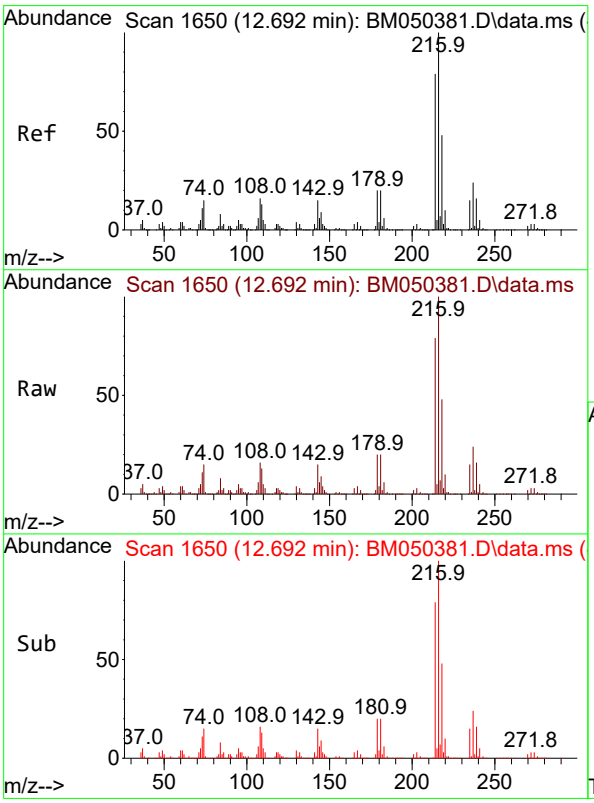
Ion	Ratio	Lower	Upper
164	100		
162	99.9	79.9	119.9
160	45.3	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

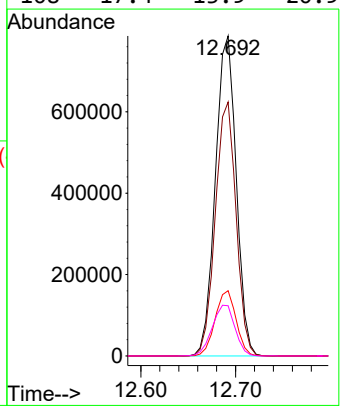
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

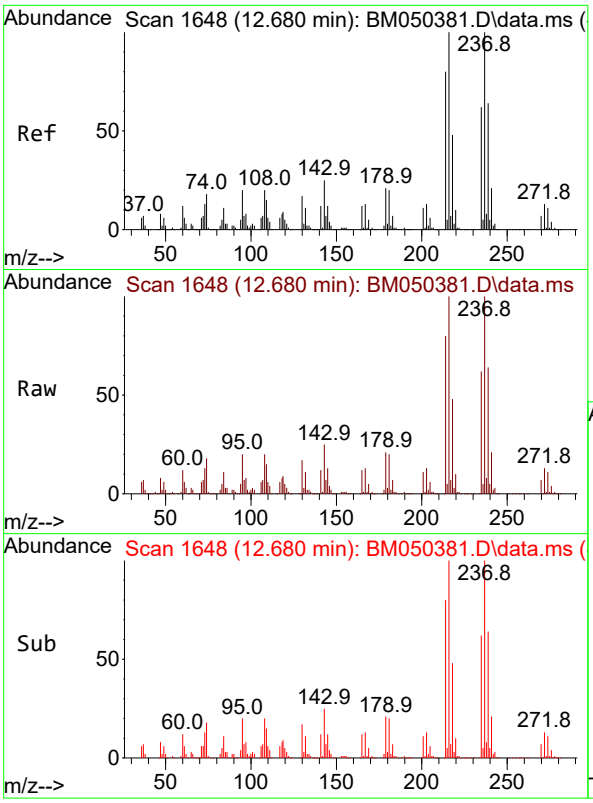


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.134 ng
RT: 12.692 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:216 Resp: 1203524

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.3	94.9
179	20.5	16.4	24.6
108	17.4	13.9	20.9

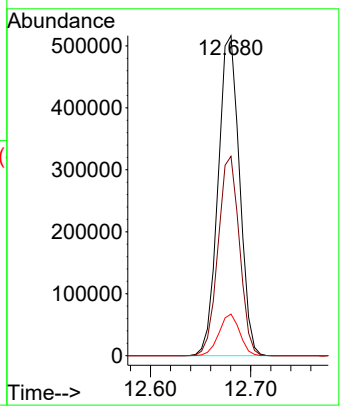




#41
Hexachlorocyclopentadiene
Concen: 38.951 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:237 Resp: 765708

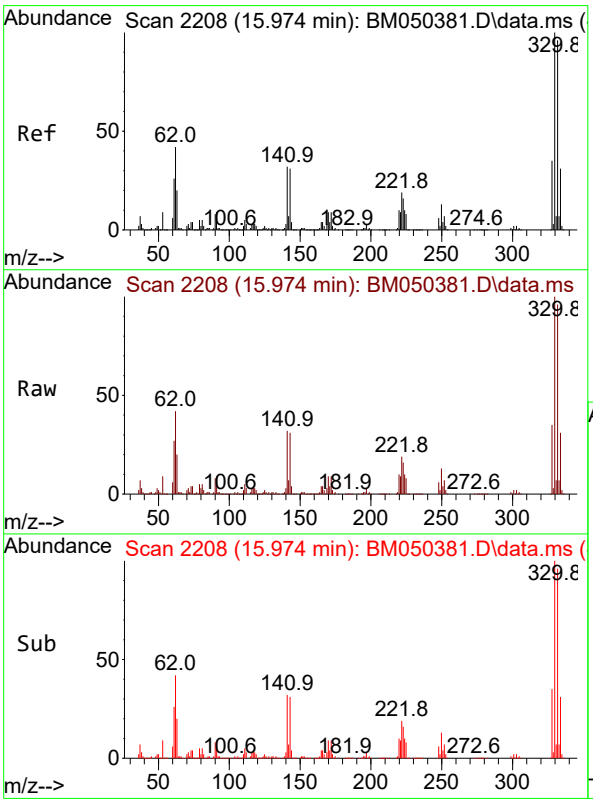
Ion	Ratio	Lower	Upper
237	100		
235	62.3	42.3	82.3
272	13.0	0.0	33.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

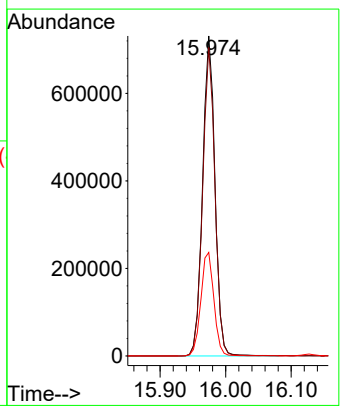
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

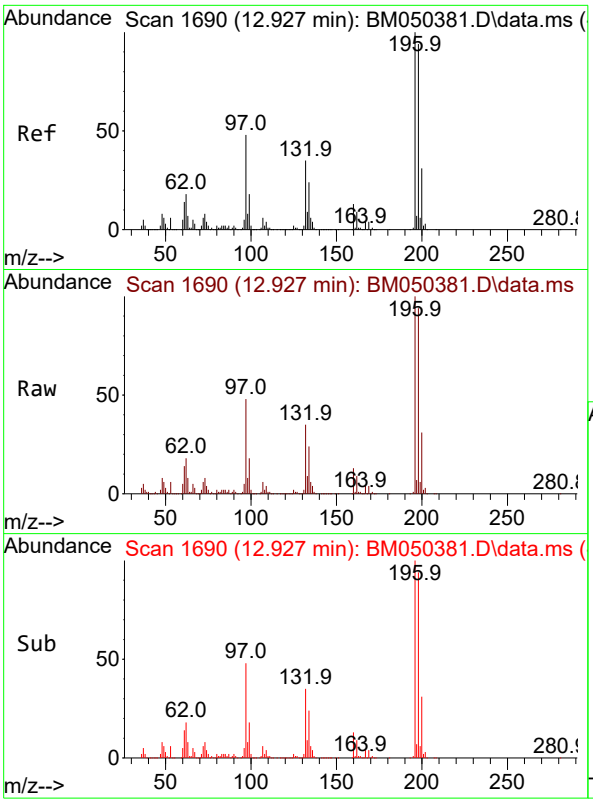


#42
2,4,6-Tribromophenol
Concen: 81.797 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:330 Resp: 961125

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	34.2	27.4	41.0





#43
2,4,6-Trichlorophenol
Concen: 40.252 ng
RT: 12.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

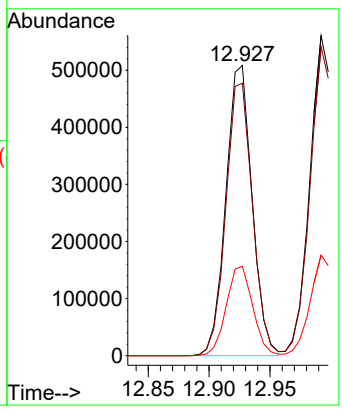
Tgt Ion:196 Resp: 76198

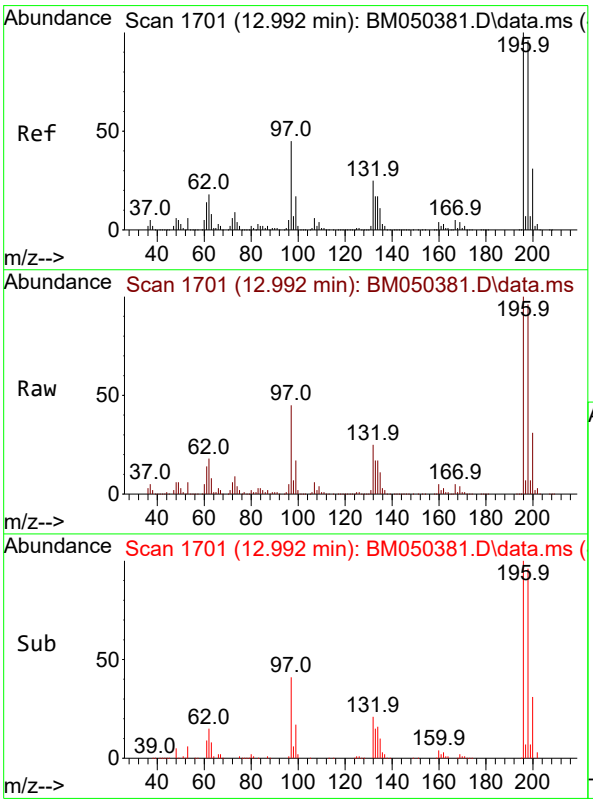
Ion	Ratio	Lower	Upper
196	100		
198	93.9	75.1	112.7
200	30.8	24.6	37.0

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

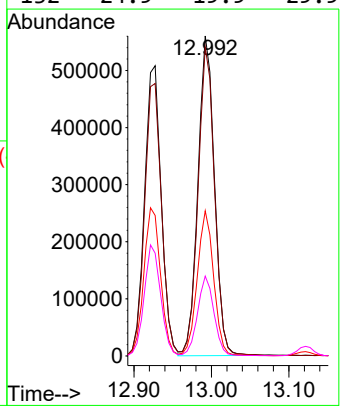


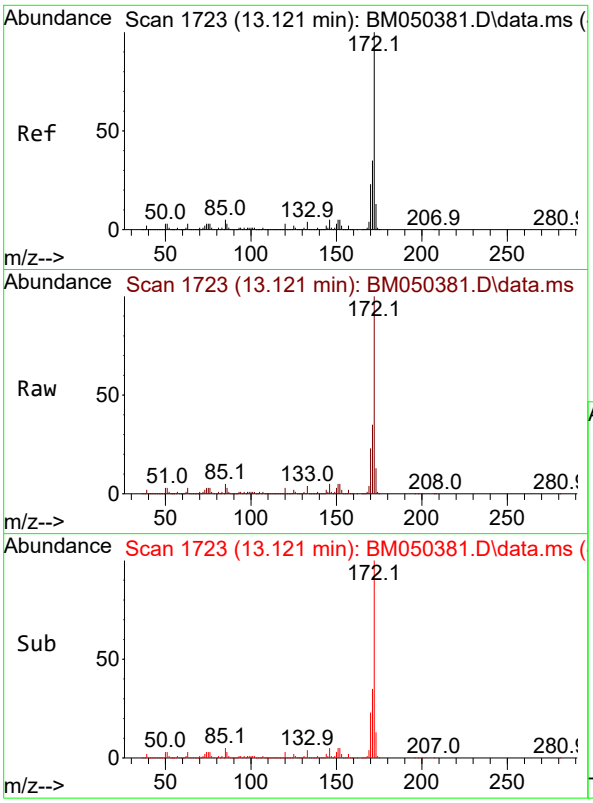


#44
2,4,5-Trichlorophenol
Concen: 40.202 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:196 Resp: 831142

Ion	Ratio	Lower	Upper
196	100		
198	96.5	77.2	115.8
97	45.3	36.2	54.4
132	24.9	19.9	29.9

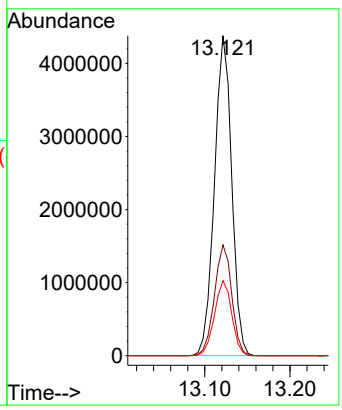




#45
2-Fluorobiphenyl
Concen: 78.635 ng
RT: 13.121 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:172 Resp: 615788

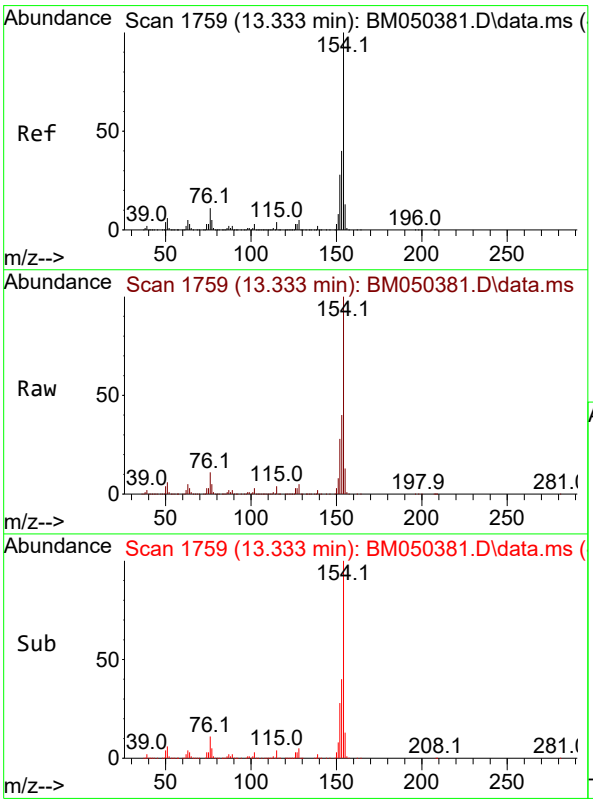
Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.7	41.5
170	23.5	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

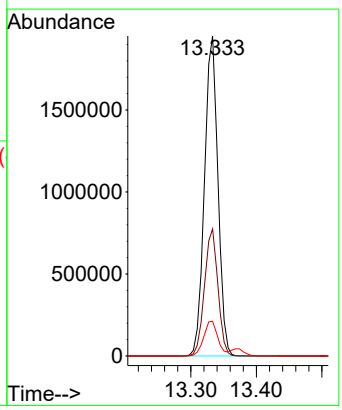
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

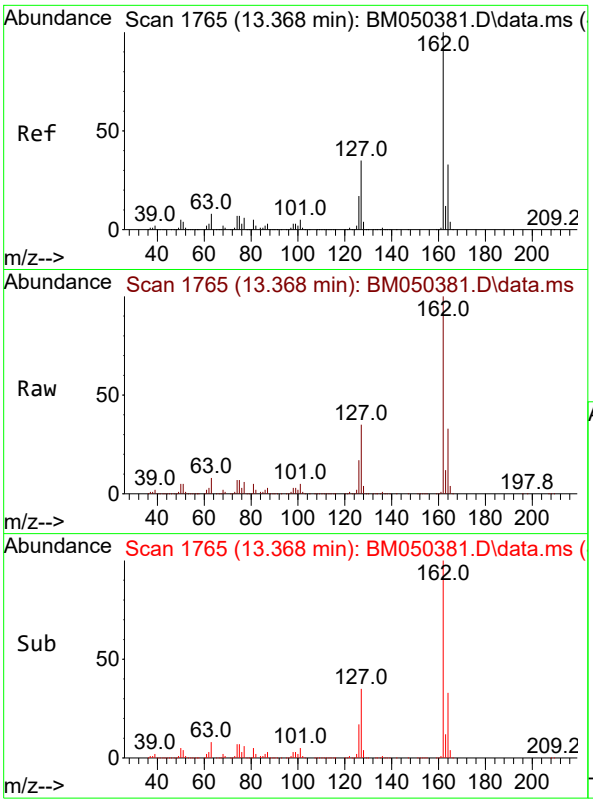


#46
1,1'-Biphenyl
Concen: 38.832 ng
RT: 13.333 min Scan# 1759
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:154 Resp: 2786215

Ion	Ratio	Lower	Upper
154	100		
153	39.7	19.7	59.7
76	10.9	0.0	30.9

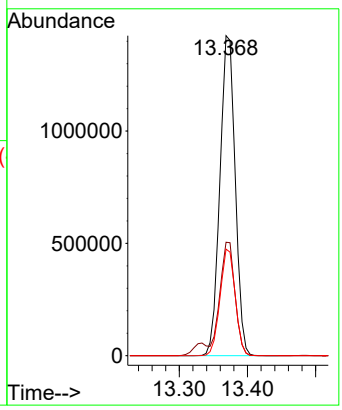




#47
2-Chloronaphthalene
Concen: 38.889 ng
RT: 13.368 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:162 Resp: 222472

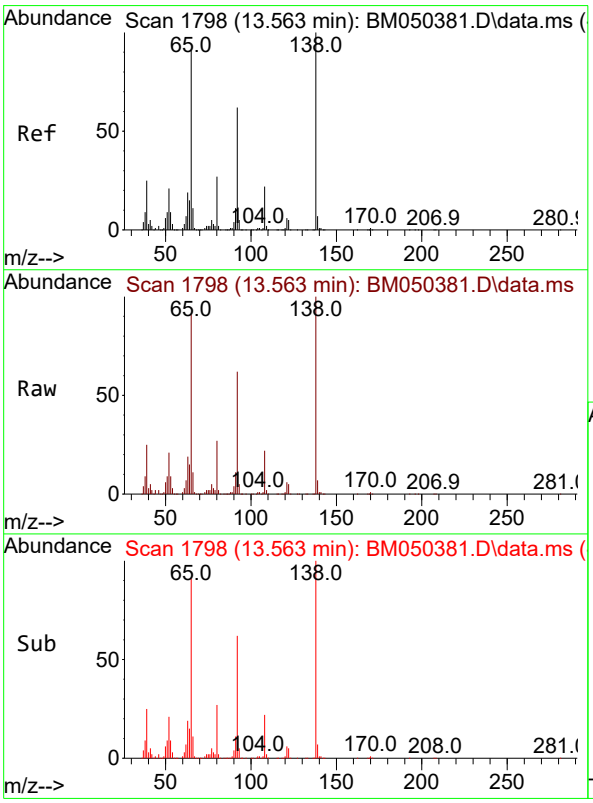
Ion	Ratio	Lower	Upper
162	100		
127	35.4	28.3	42.5
164	33.3	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

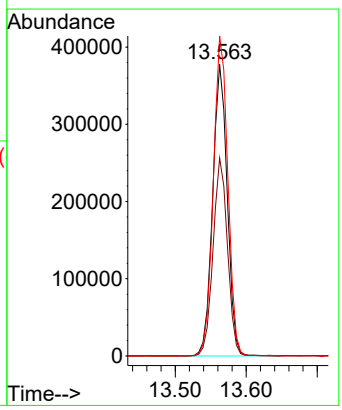
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

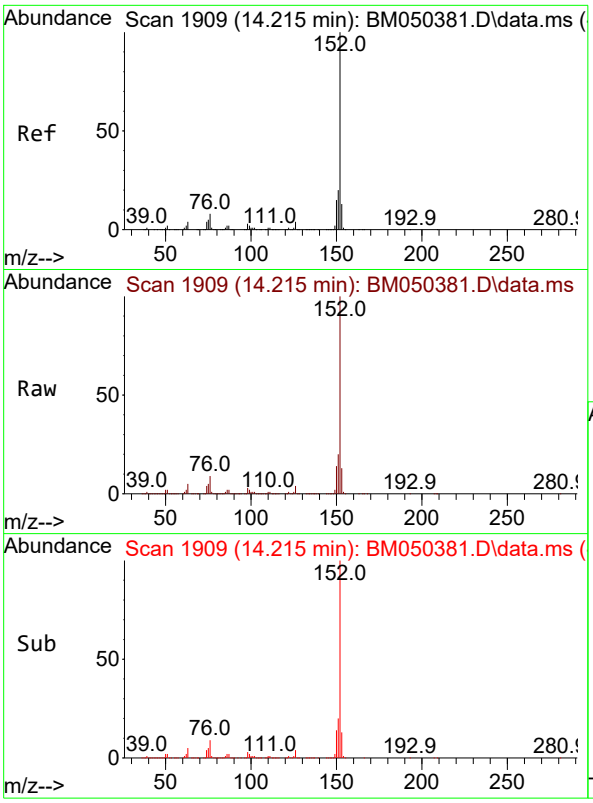


#48
2-Nitroaniline
Concen: 42.165 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion: 65 Resp: 538415

Ion	Ratio	Lower	Upper
65	100		
92	67.9	54.3	81.5
138	109.7	87.8	131.6

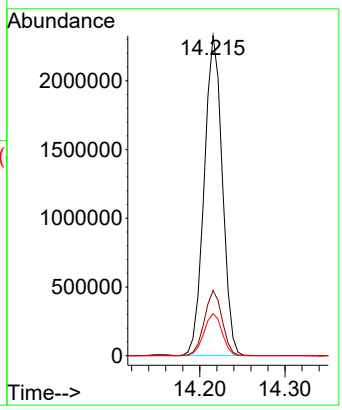




#49
Acenaphthylene
Concen: 39.714 ng
RT: 14.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

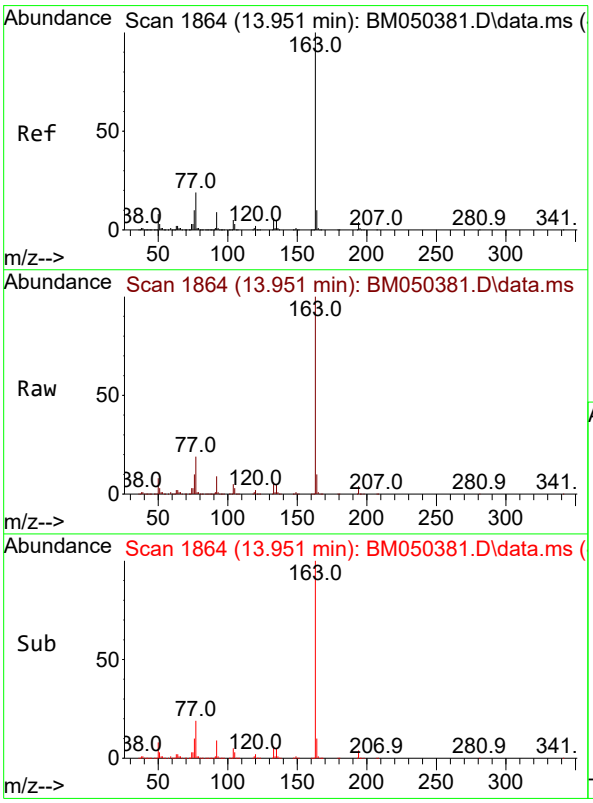
Tgt Ion:152 Resp: 343358

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.3	24.5
153	13.2	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

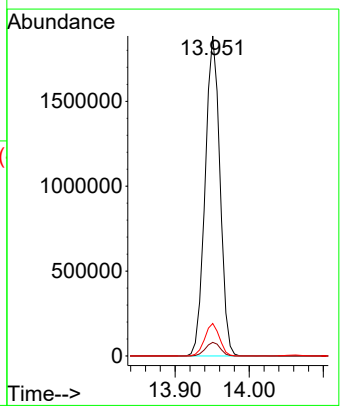
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

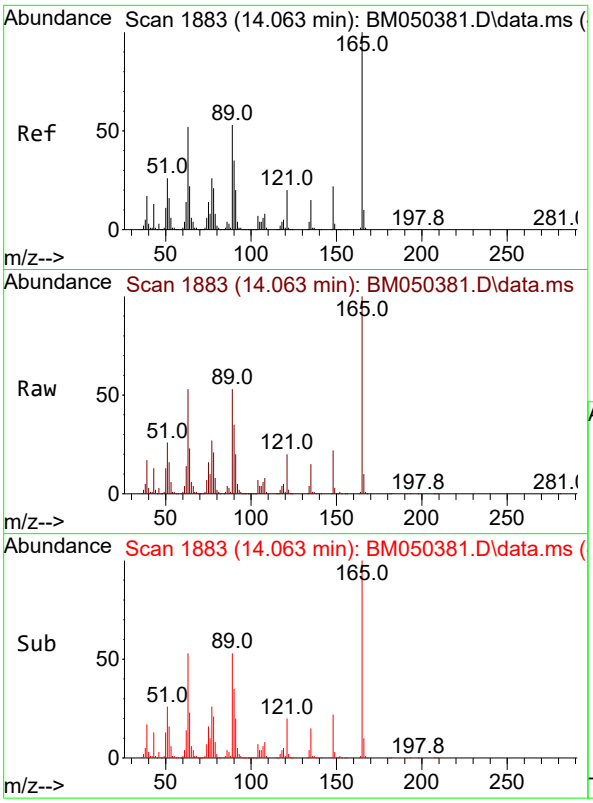


#50
Dimethylphthalate
Concen: 39.248 ng
RT: 13.951 min Scan# 1864
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:163 Resp: 2613190

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.2	8.2	12.2

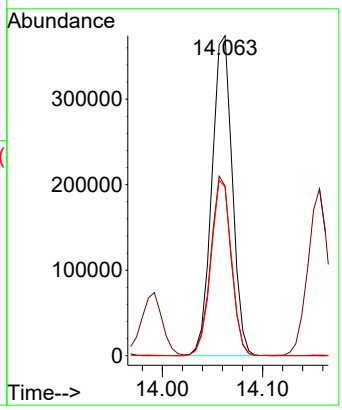




#51
2,6-Dinitrotoluene
Concen: 41.362 ng
RT: 14.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:165 Resp: 52876

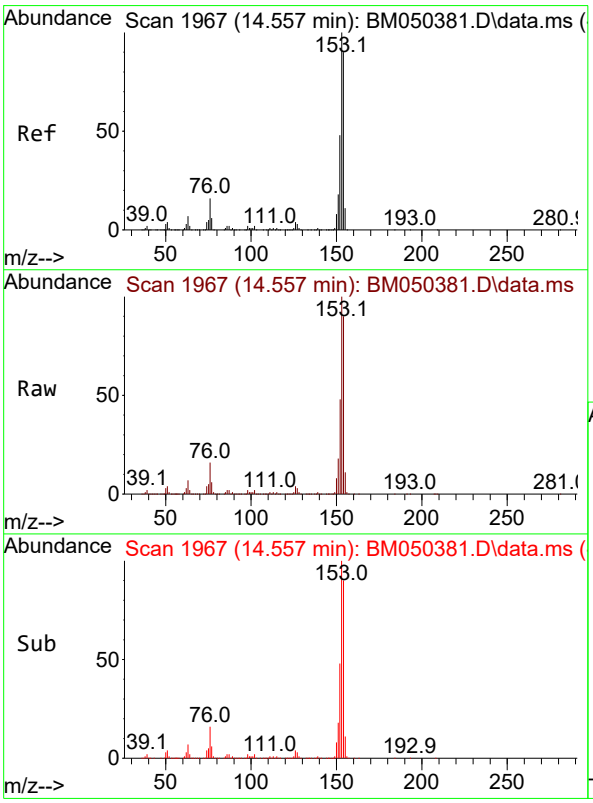
Ion	Ratio	Lower	Upper
165	100		
63	53.0	42.4	63.6
89	52.7	42.2	63.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

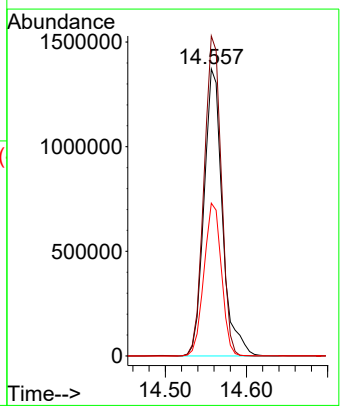
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

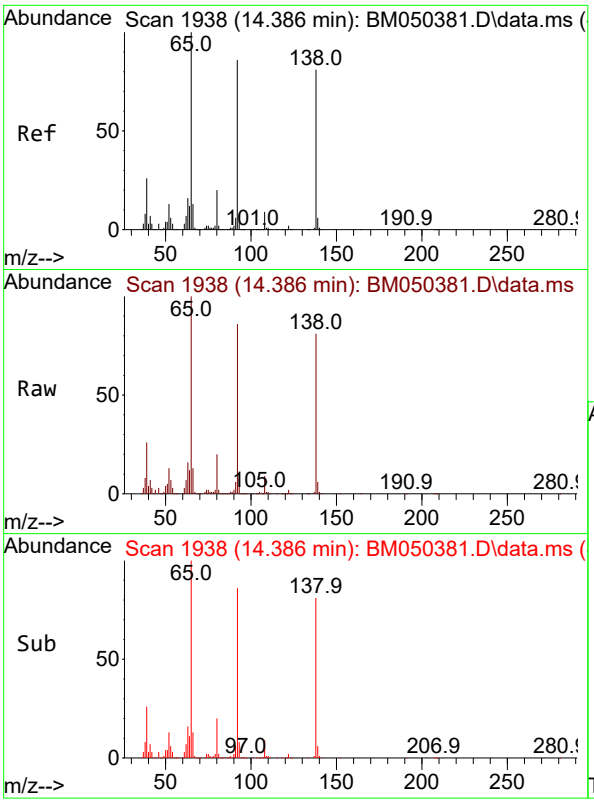


#52
Acenaphthene
Concen: 39.080 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:154 Resp: 2148079

Ion	Ratio	Lower	Upper
154	100		
153	111.5	89.2	133.8
152	53.3	42.6	64.0

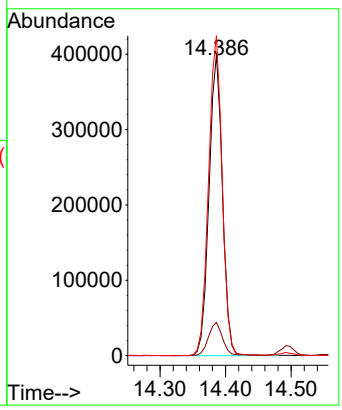




#53
3-Nitroaniline
Concen: 41.832 ng
RT: 14.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:138 Resp: 56871

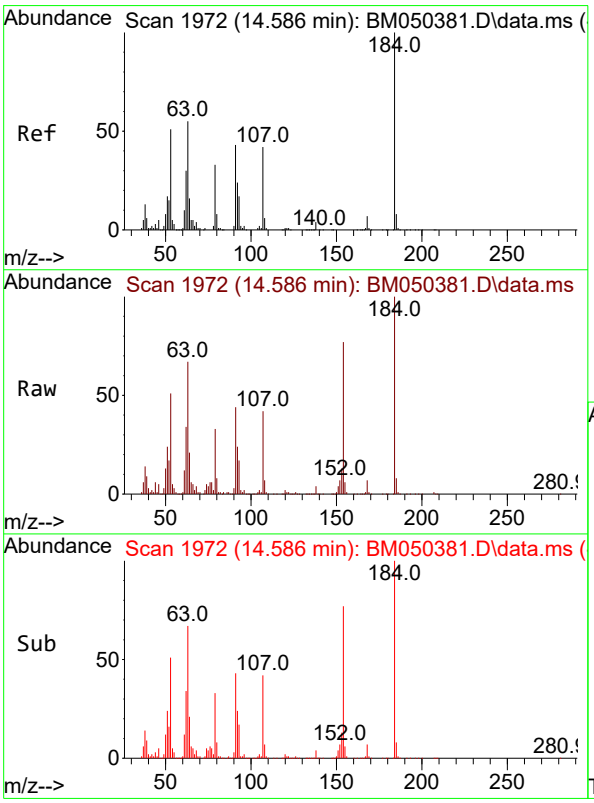
Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.8	13.2
92	106.3	85.0	127.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

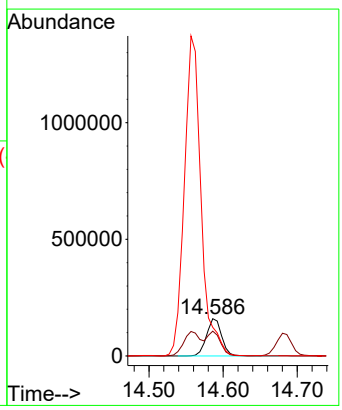
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

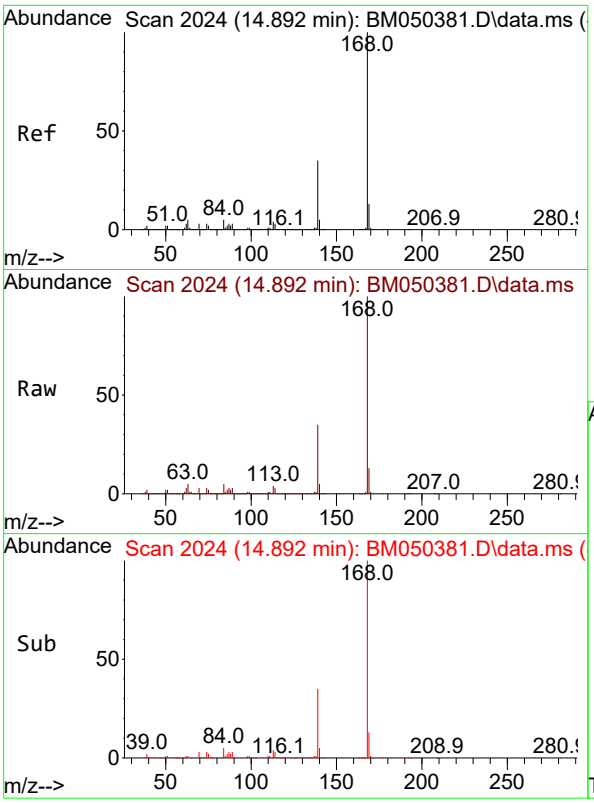


#54
2,4-Dinitrophenol
Concen: 35.873 ng
RT: 14.586 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:184 Resp: 225952

Ion	Ratio	Lower	Upper
184	100		
63	66.7	53.4	80.0
154	77.0	61.6	92.4

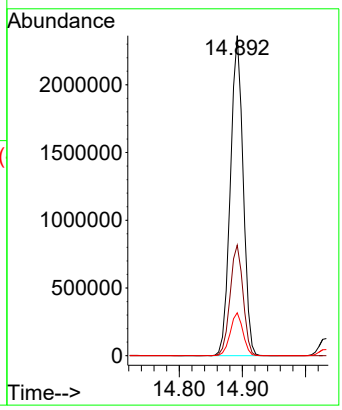




#55
Dibenzofuran
Concen: 39.024 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:168 Resp: 330504

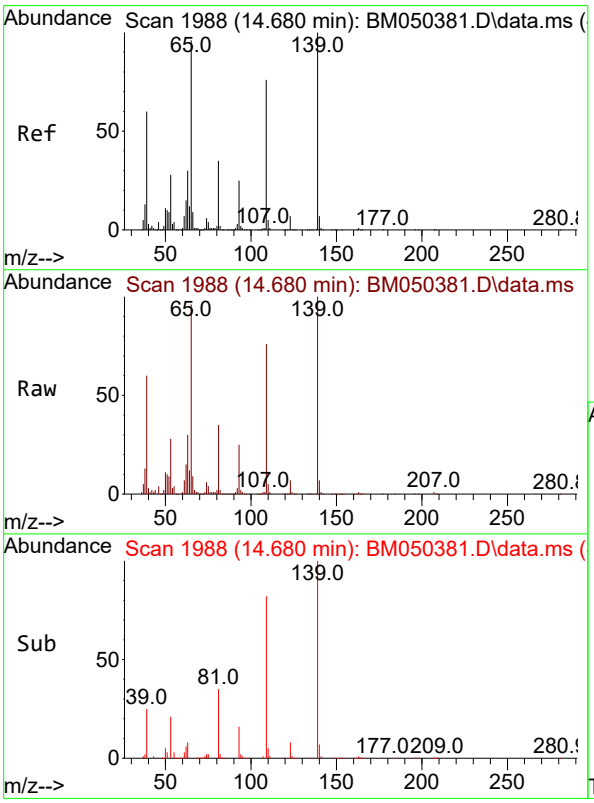
Ion	Ratio	Lower	Upper
168	100		
139	34.6	27.7	41.5
169	13.4	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

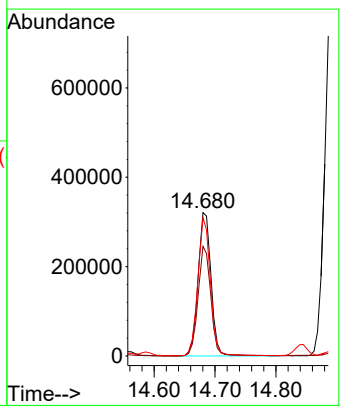
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

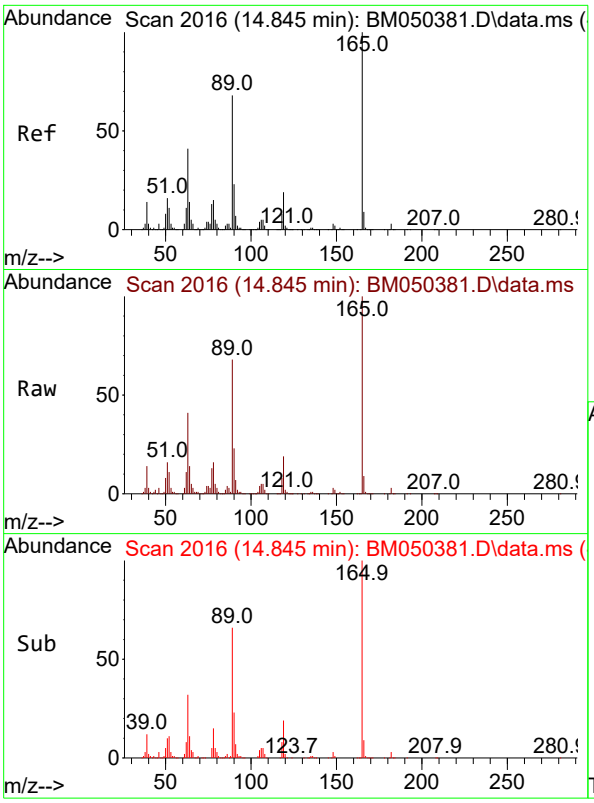


#56
4-Nitrophenol
Concen: 40.504 ng
RT: 14.680 min Scan# 1988
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:139 Resp: 473550

Ion	Ratio	Lower	Upper
139	100		
109	76.5	56.5	96.5
65	96.4	76.4	116.4

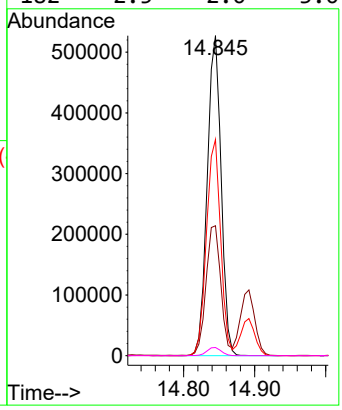




#57
2,4-Dinitrotoluene
Concen: 38.104 ng
RT: 14.845 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

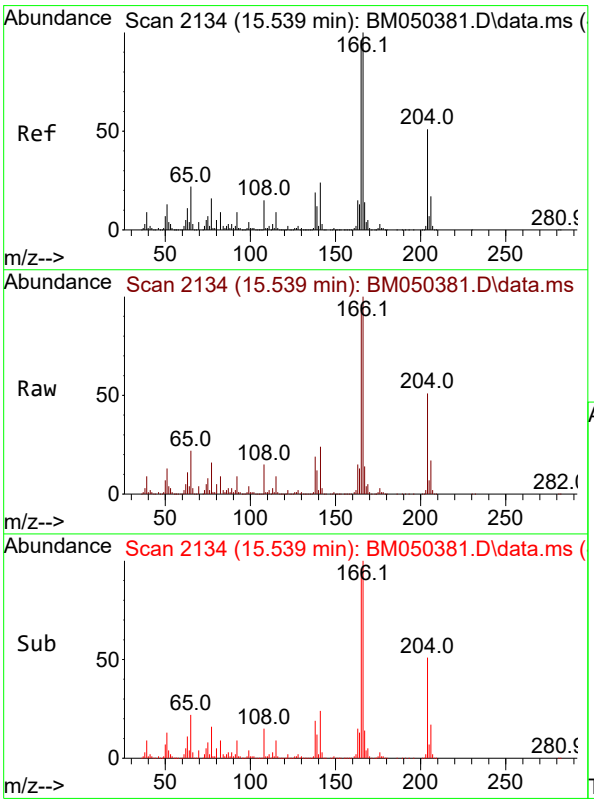
Tgt Ion:165 Resp: 71780

Ion	Ratio	Lower	Upper
165	100		
63	40.6	32.5	48.7
89	67.5	54.0	81.0
182	2.5	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

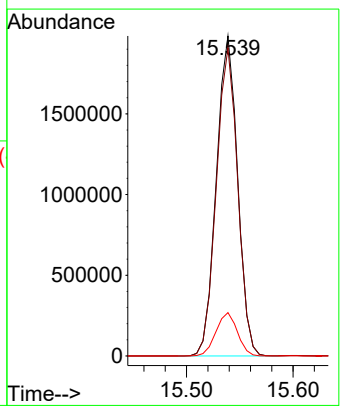
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

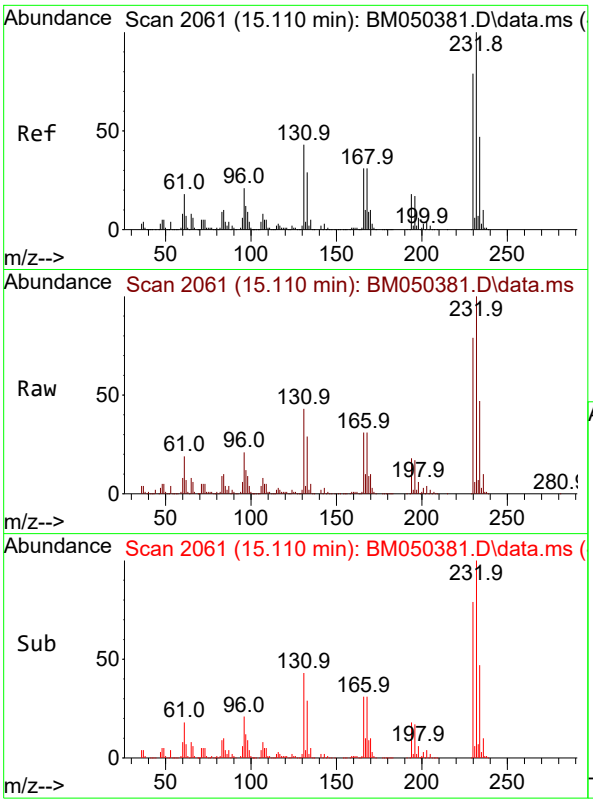


#58
Fluorene
Concen: 39.349 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:166 Resp: 2744882

Ion	Ratio	Lower	Upper
166	100		
165	96.3	77.0	115.6
167	13.6	10.9	16.3

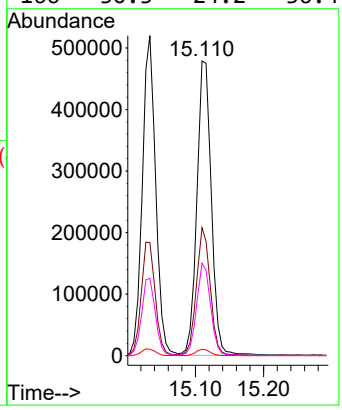




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.512 ng
RT: 15.110 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:232 Resp: 70504

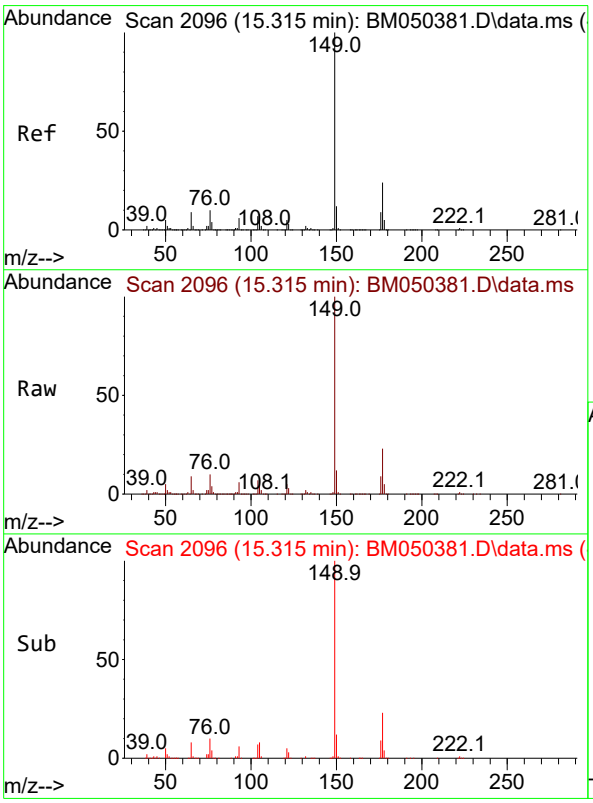
Ion	Ratio	Lower	Upper
232	100		
131	41.7	33.4	50.0
130	2.2	1.8	2.6
166	30.3	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

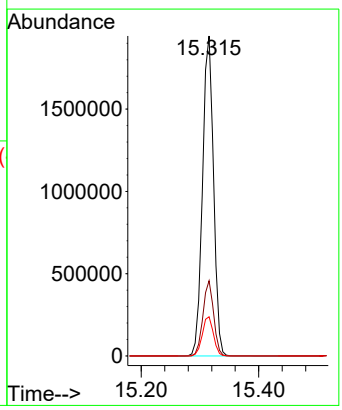
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

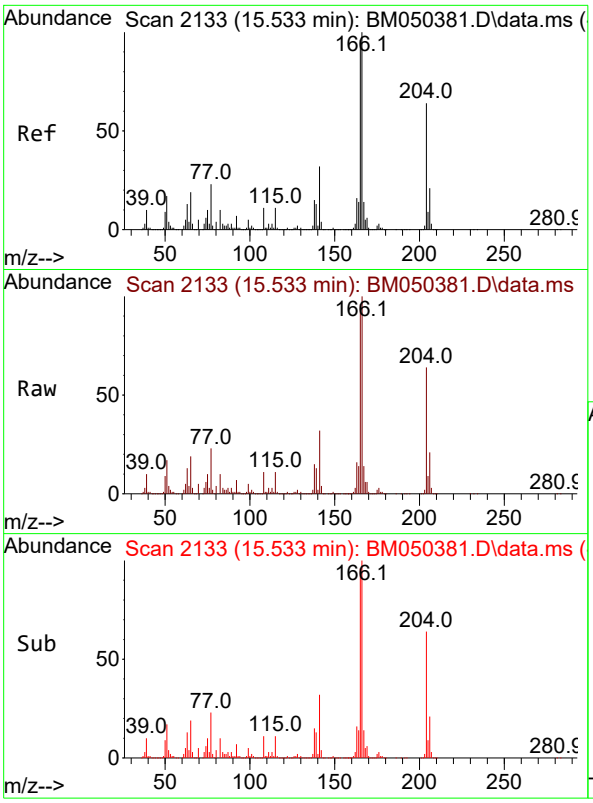


#60
Diethylphthalate
Concen: 39.811 ng
RT: 15.315 min Scan# 2096
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:149 Resp: 2532007

Ion	Ratio	Lower	Upper
149	100		
177	23.5	18.8	28.2
150	12.3	9.8	14.8

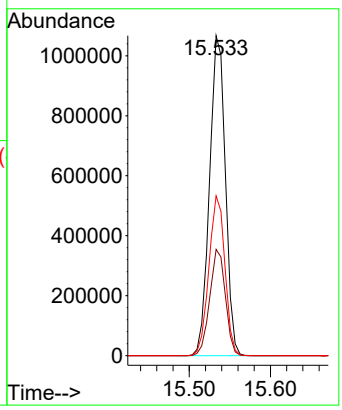




#61
4-Chlorophenyl-phenylether
Concen: 39.586 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:204 Resp: 144393

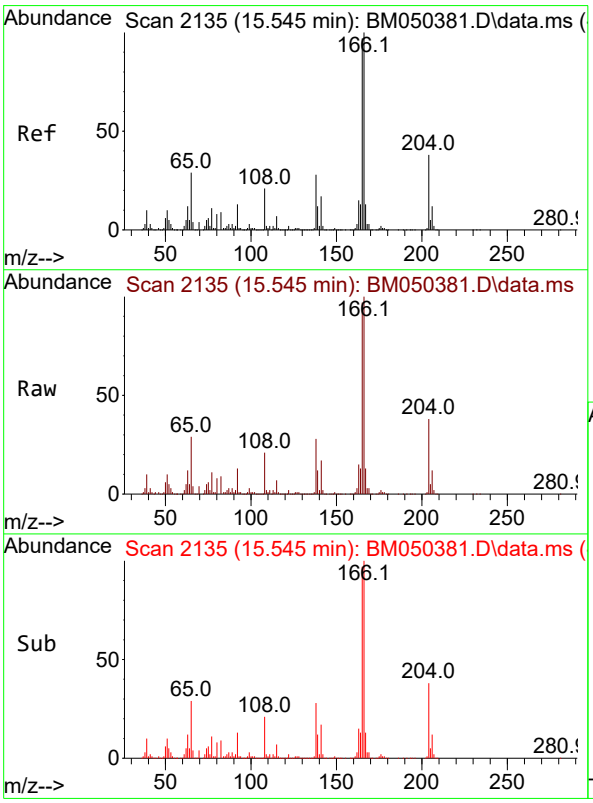
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	39.8
141	49.9	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

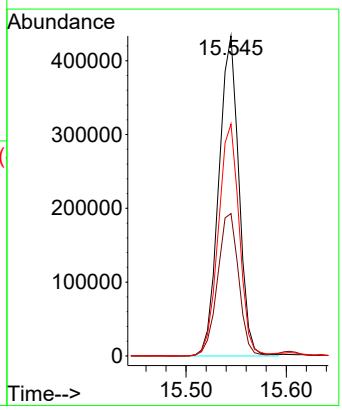
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

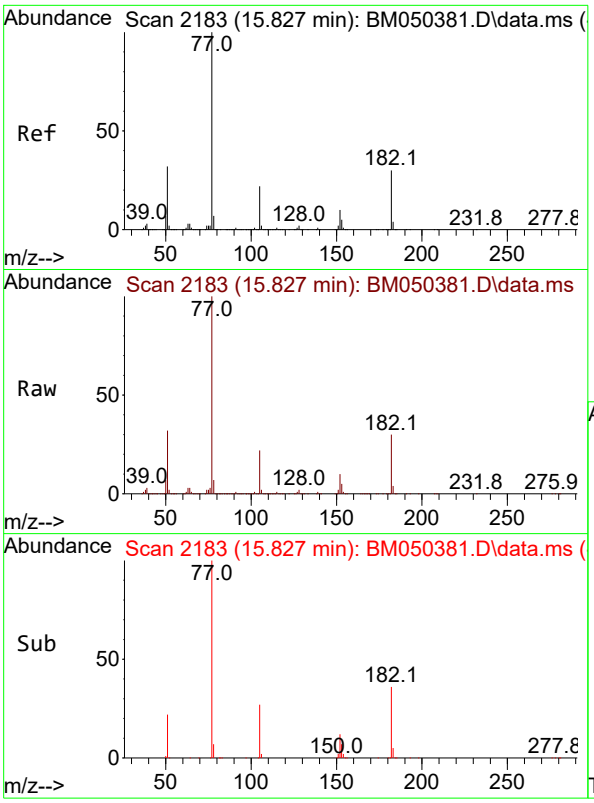


#62
4-Nitroaniline
Concen: 39.043 ng
RT: 15.545 min Scan# 2135
Delta R.T. -0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:138 Resp: 602257

Ion	Ratio	Lower	Upper
138	100		
92	44.5	24.5	64.5
108	72.5	52.5	92.5

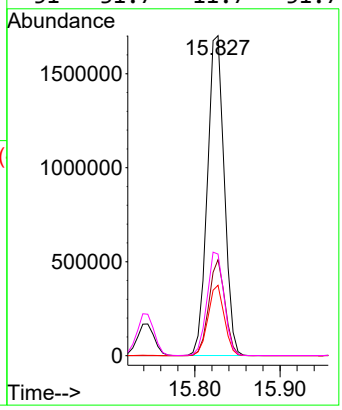




#63
Azobenzene
Concen: 40.021 ng
RT: 15.827 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

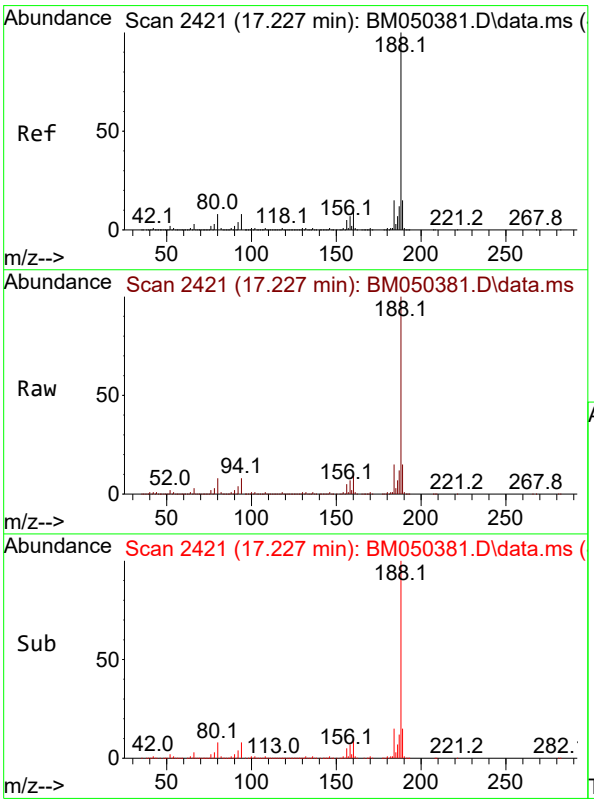
Tgt Ion: 77 Resp: 233729

Ion	Ratio	Lower	Upper
77	100		
182	30.0	10.0	50.0
105	22.0	2.0	42.0
51	31.7	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

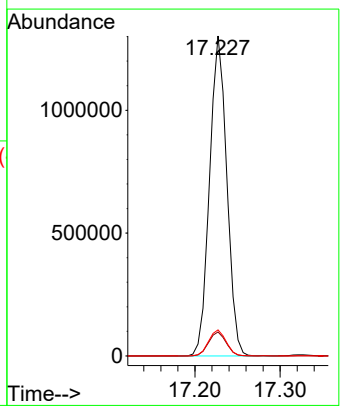
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

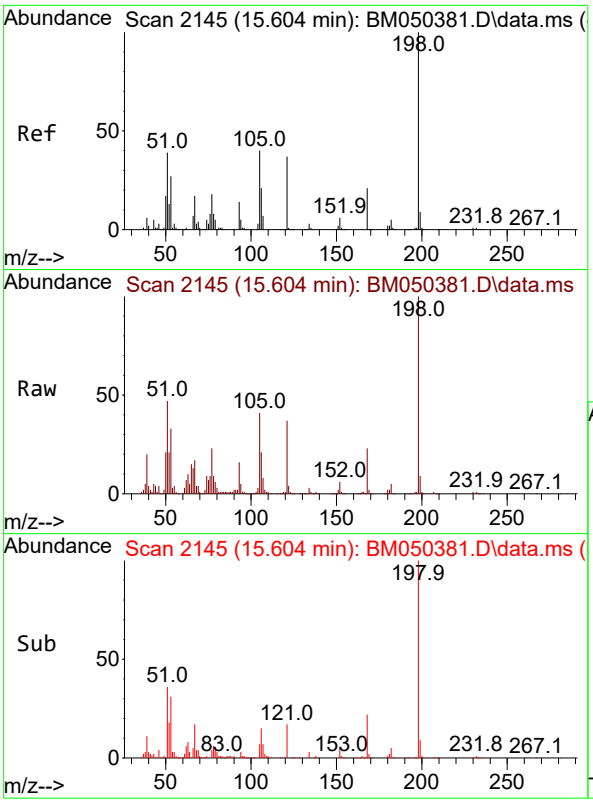


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:188 Resp: 1834050

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.0	9.0
80	8.1	6.5	9.7





#65
4,6-Dinitro-2-methylphenol
Concen: 36.538 ng
RT: 15.604 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

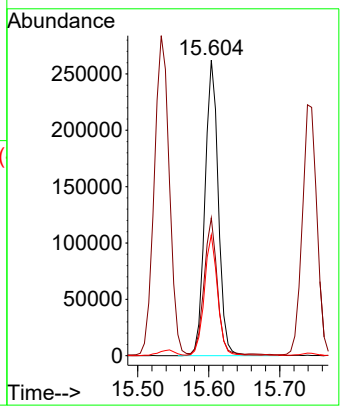
Tgt Ion:198 Resp: 34324

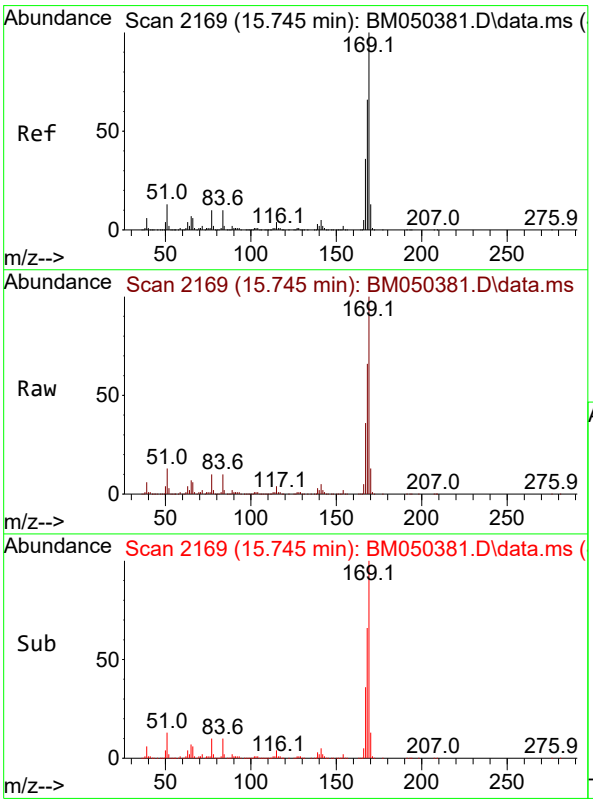
Ion	Ratio	Lower	Upper
198	100		
51	46.6	26.6	66.6
105	40.9	20.9	60.9

Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

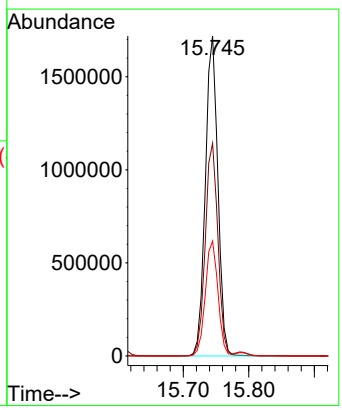


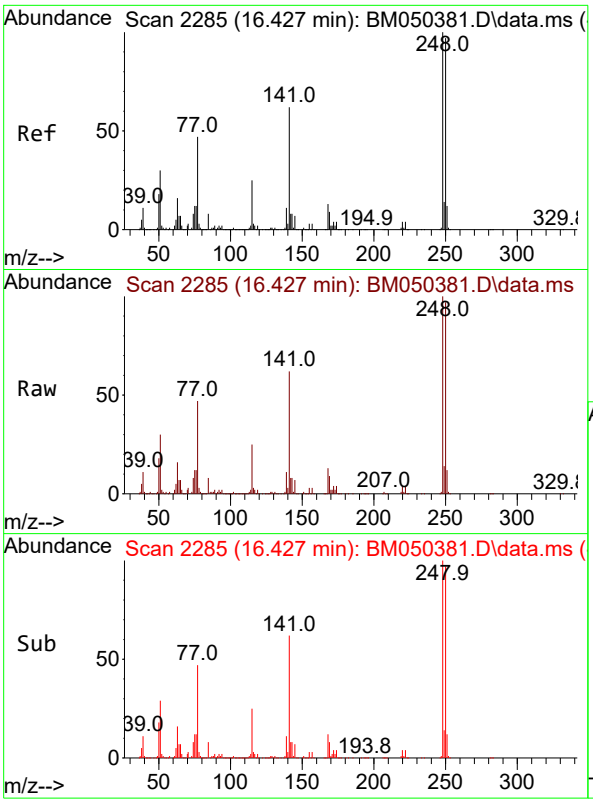


#66
n-Nitrosodiphenylamine
Concen: 39.809 ng
RT: 15.745 min Scan# 2169
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:169 Resp: 2284645

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	35.9	28.7	43.1

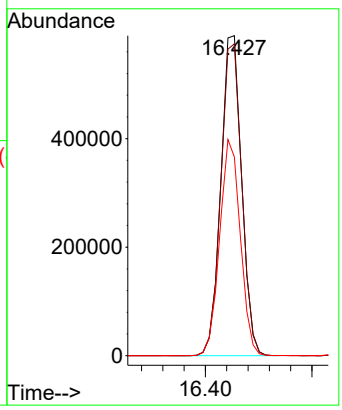




#67
4-Bromophenyl-phenylether
Concen: 39.504 ng
RT: 16.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:248 Resp: 79825

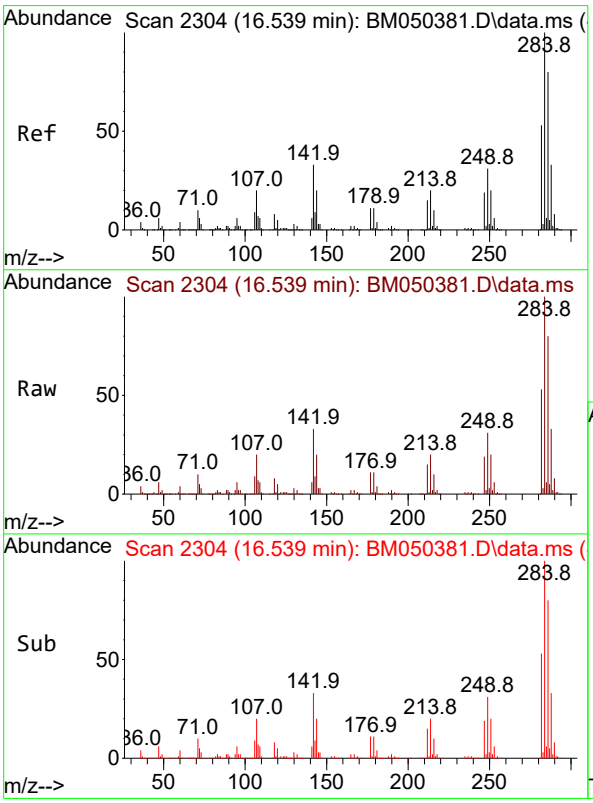
Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.9	116.9
141	62.1	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

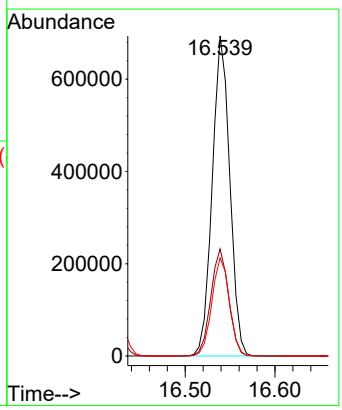
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

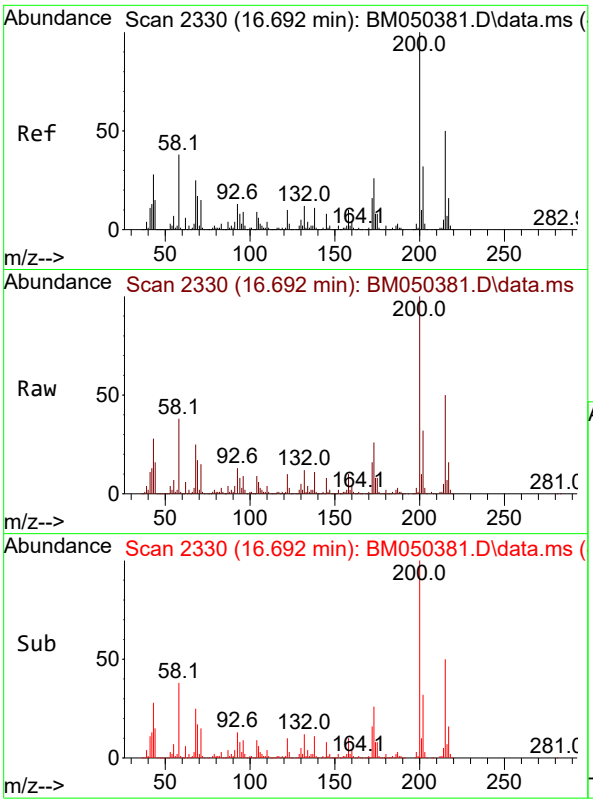


#68
Hexachlorobenzene
Concen: 39.414 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:284 Resp: 940659

Ion	Ratio	Lower	Upper
284	100		
142	33.5	26.8	40.2
249	30.6	24.5	36.7

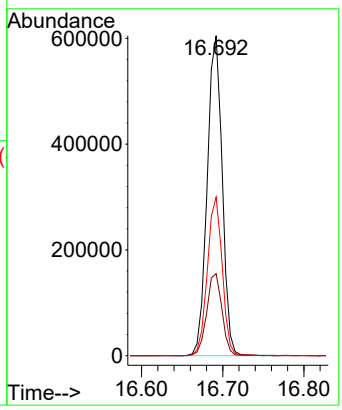




#69
Atrazine
Concen: 41.139 ng
RT: 16.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

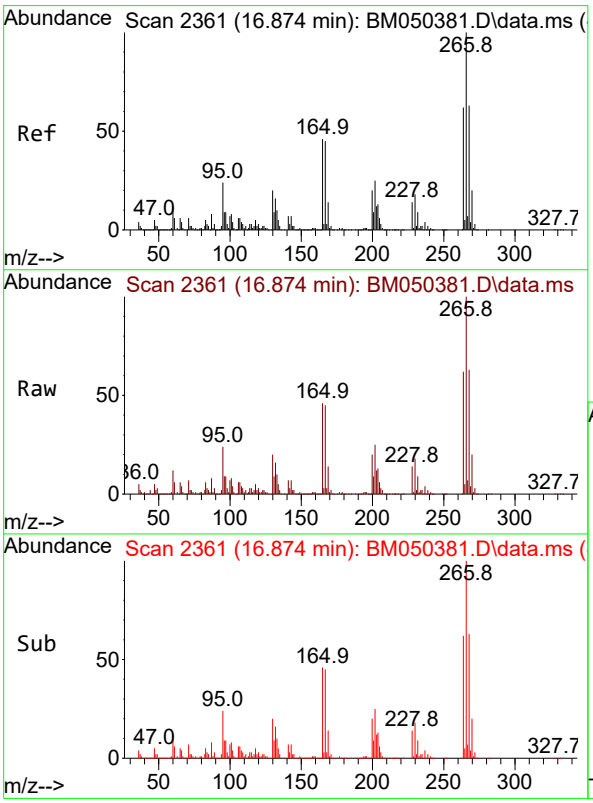
Tgt Ion:200 Resp: 77527

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.6	45.6
215	49.6	29.6	69.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

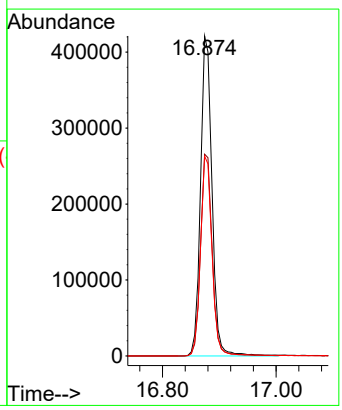
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

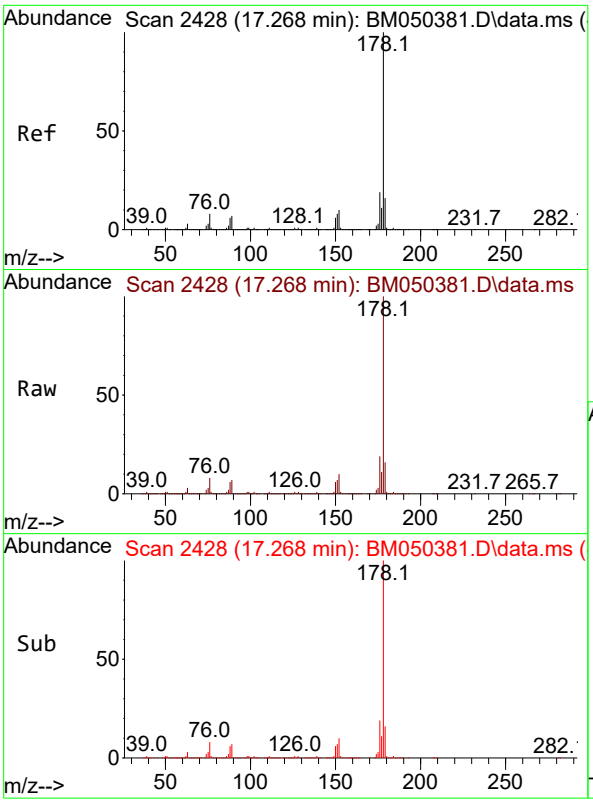


#70
Pentachlorophenol
Concen: 39.717 ng
RT: 16.874 min Scan# 2361
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:266 Resp: 590077

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.5	75.7
264	62.4	49.9	74.9

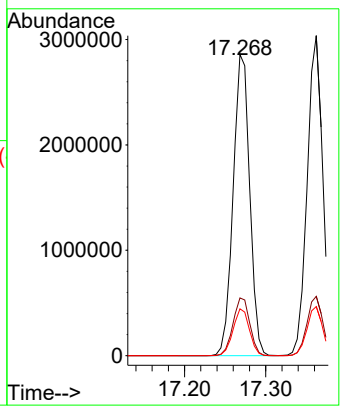




#71
Phenanthrene
Concen: 38.923 ng
RT: 17.268 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

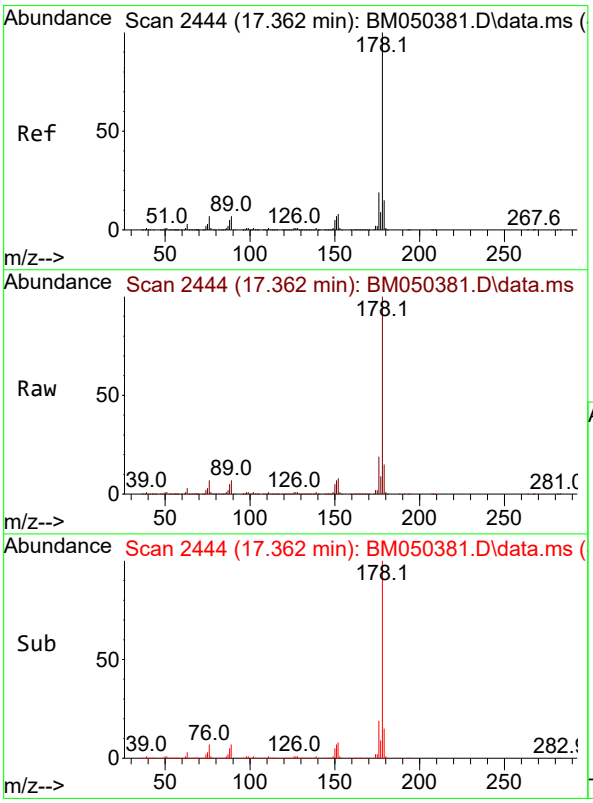
Tgt Ion:178 Resp: 403945

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.0
179	15.6	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

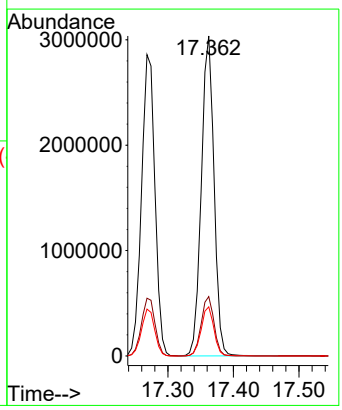
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

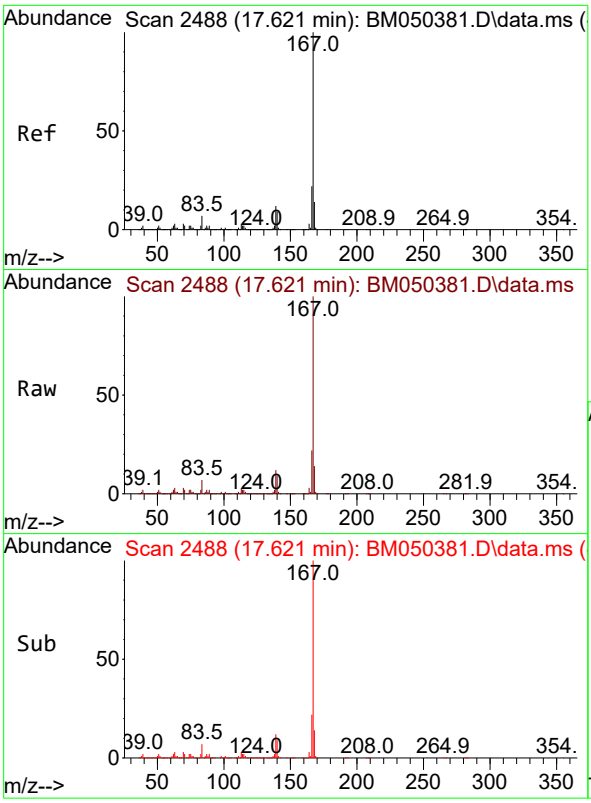


#72
Anthracene
Concen: 39.646 ng
RT: 17.362 min Scan# 2444
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:178 Resp: 4095570

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.3	12.2	18.4

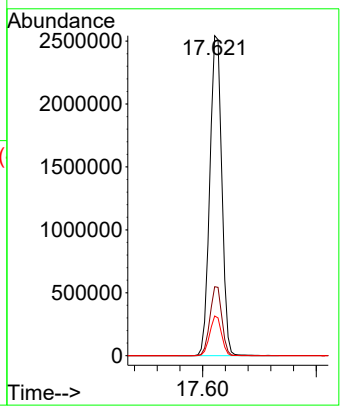




#73
Carbazole
Concen: 39.632 ng
RT: 17.621 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:167 Resp: 370443

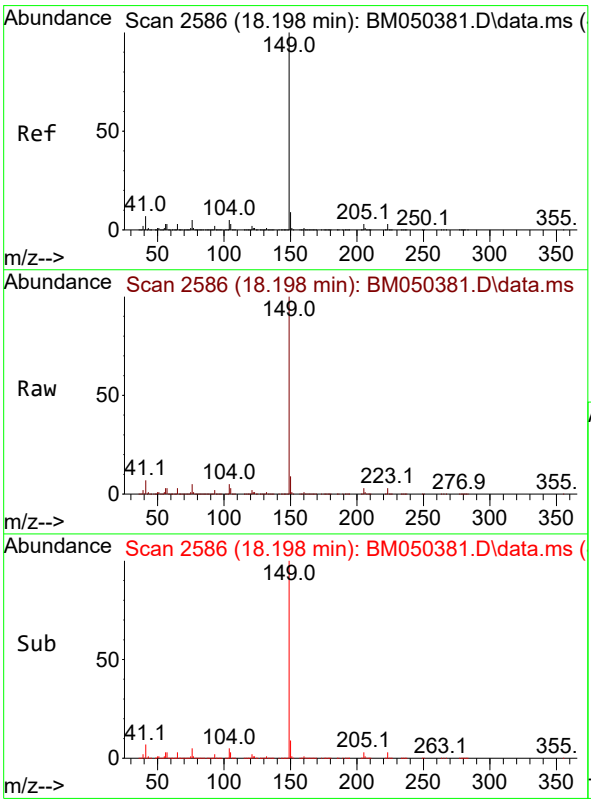
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	12.4	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

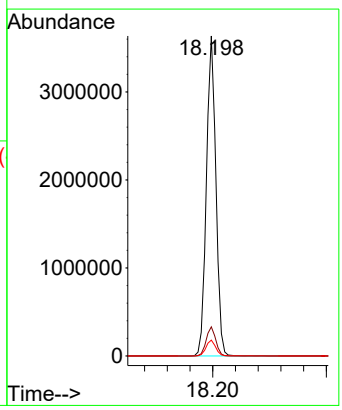
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

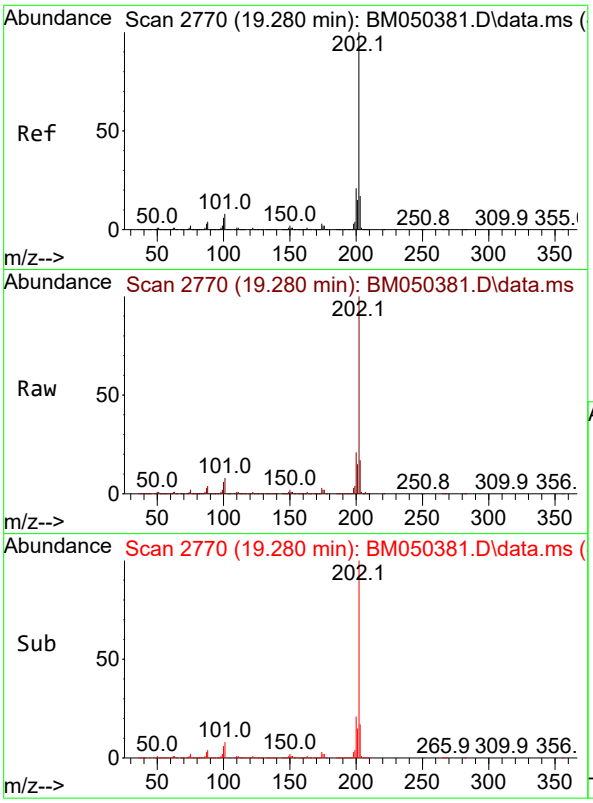


#74
Di-n-butylphthalate
Concen: 40.890 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:149 Resp: 4183360

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.9	3.9	5.9

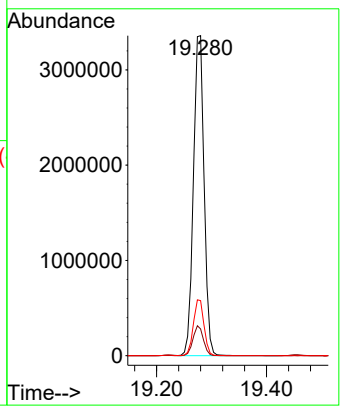




#75
Fluoranthene
Concen: 40.085 ng
RT: 19.280 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:202 Resp: 452240

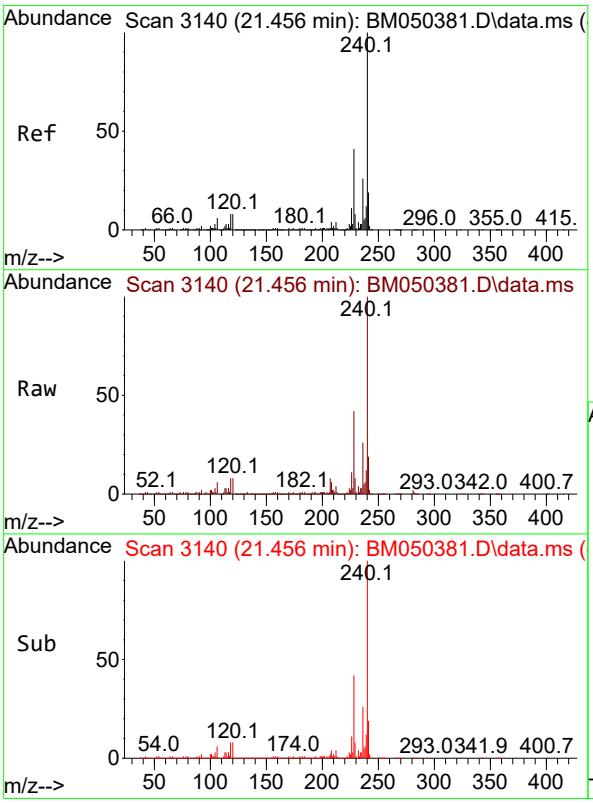
Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	28.3
203	17.2	0.0	37.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

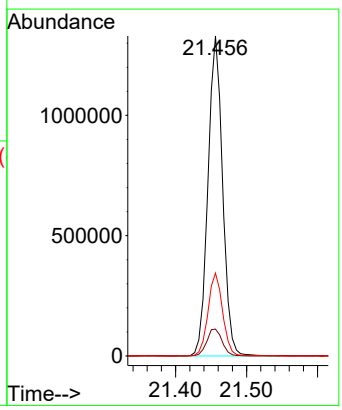
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

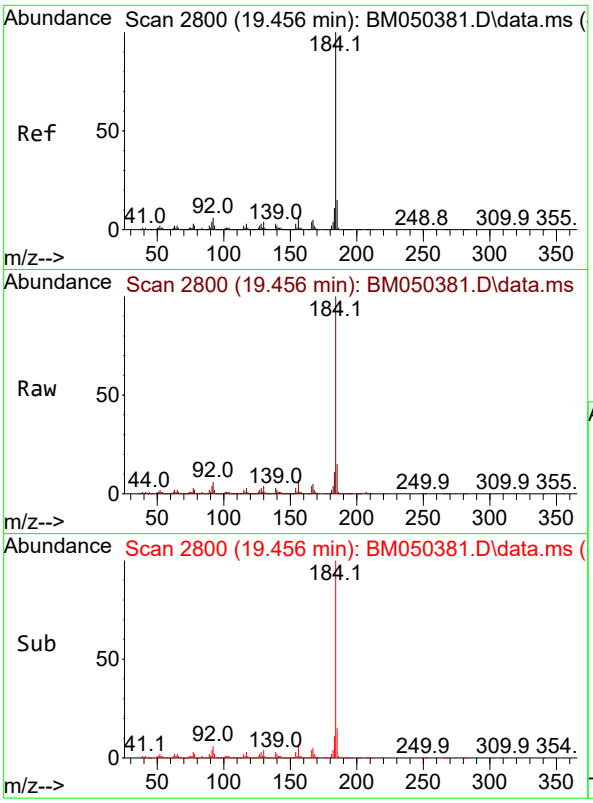


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3140
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:240 Resp: 1904004

Ion	Ratio	Lower	Upper
240	100		
120	8.4	6.7	10.1
236	25.9	20.7	31.1

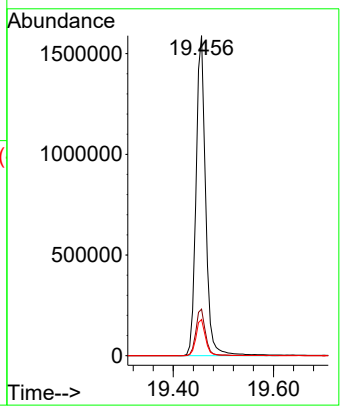




#77
Benzidine
Concen: 43.341 ng
RT: 19.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:184 Resp: 210480

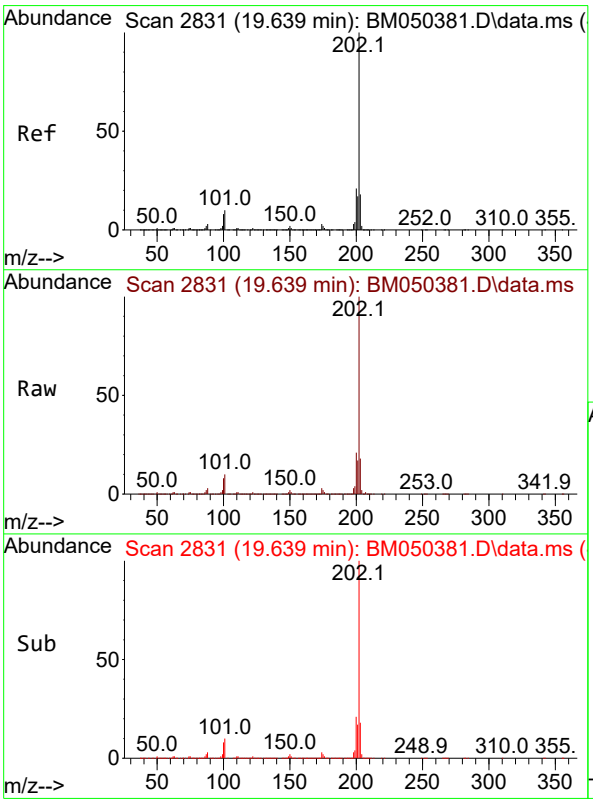
Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.7	17.5
183	11.3	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations
APPROVED

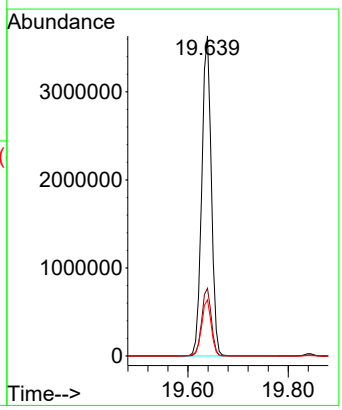
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

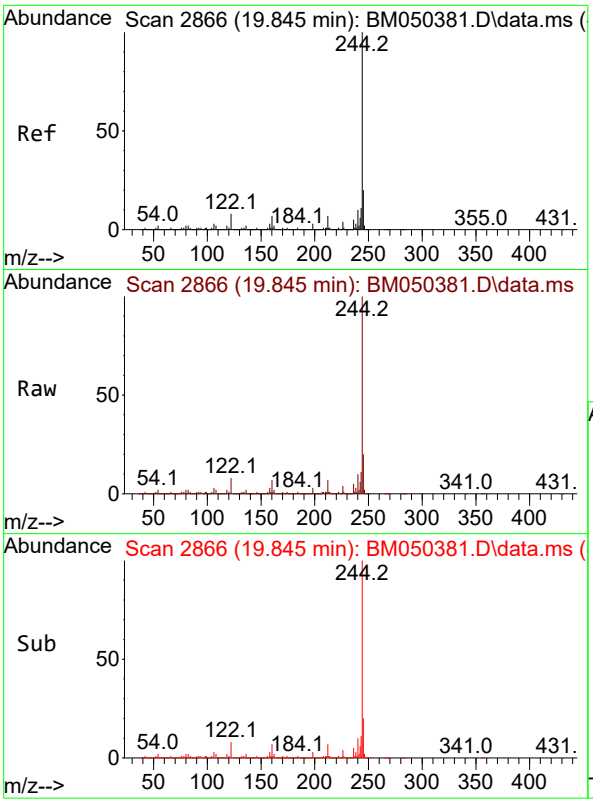


#78
Pyrene
Concen: 39.352 ng
RT: 19.639 min Scan# 2831
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:202 Resp: 4798678

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.6	14.1	21.1

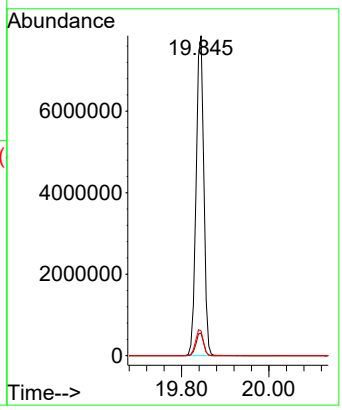




#79
Terphenyl-d14
Concen: 88.568 ng
RT: 19.845 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:244 Resp: 958437

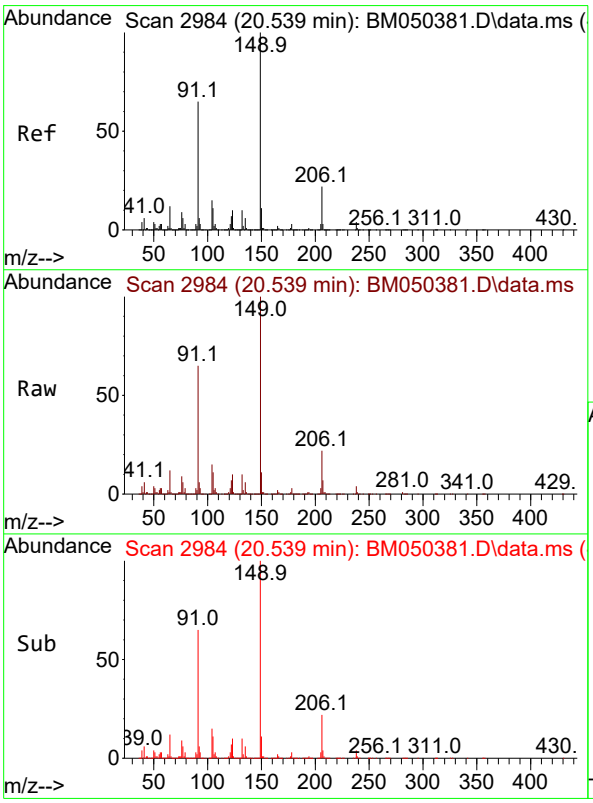
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	7.7	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

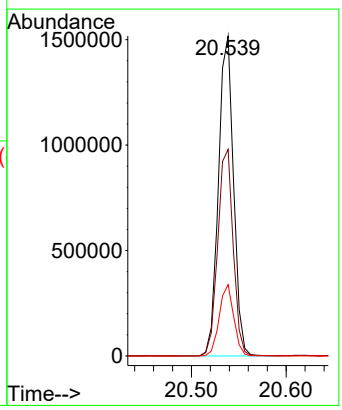
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

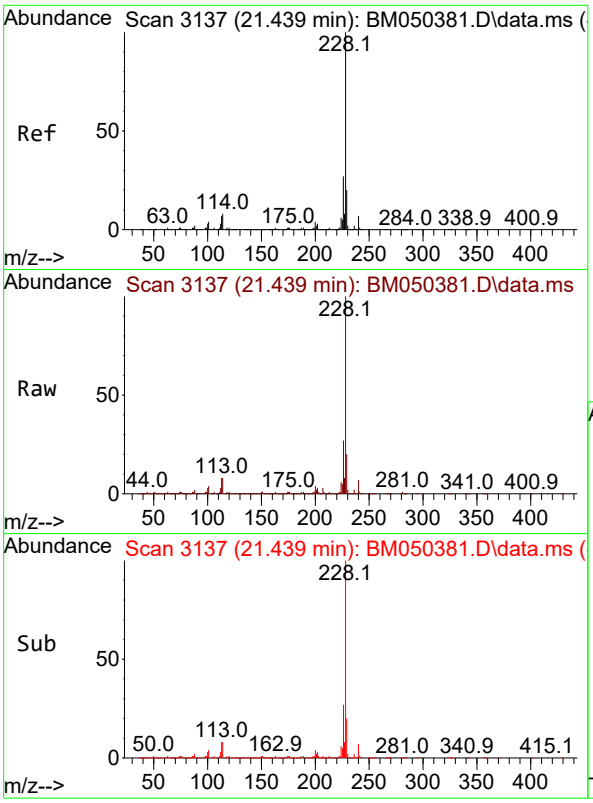


#80
Butylbenzylphthalate
Concen: 41.731 ng
RT: 20.539 min Scan# 2984
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:149 Resp: 1677924

Ion	Ratio	Lower	Upper
149	100		
91	64.5	51.6	77.4
206	22.3	17.8	26.8

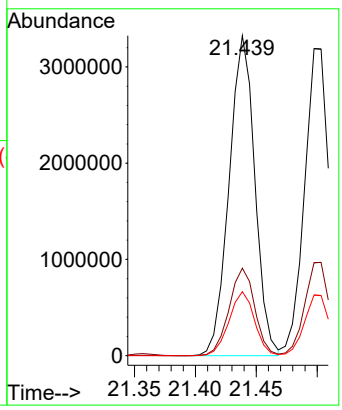




#81
Benzo(a)anthracene
Concen: 39.344 ng
RT: 21.439 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:228 Resp: 488094

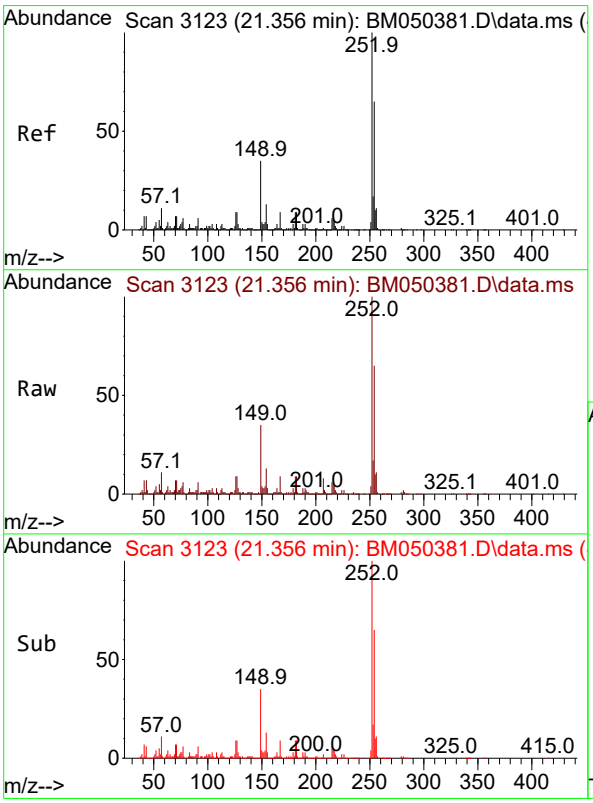
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	20.0	16.0	24.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

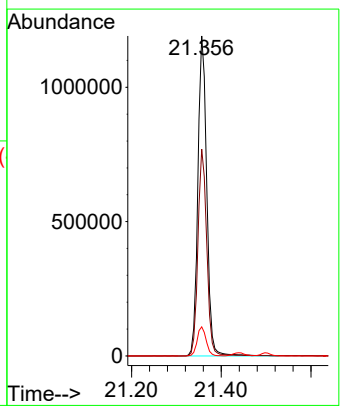
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

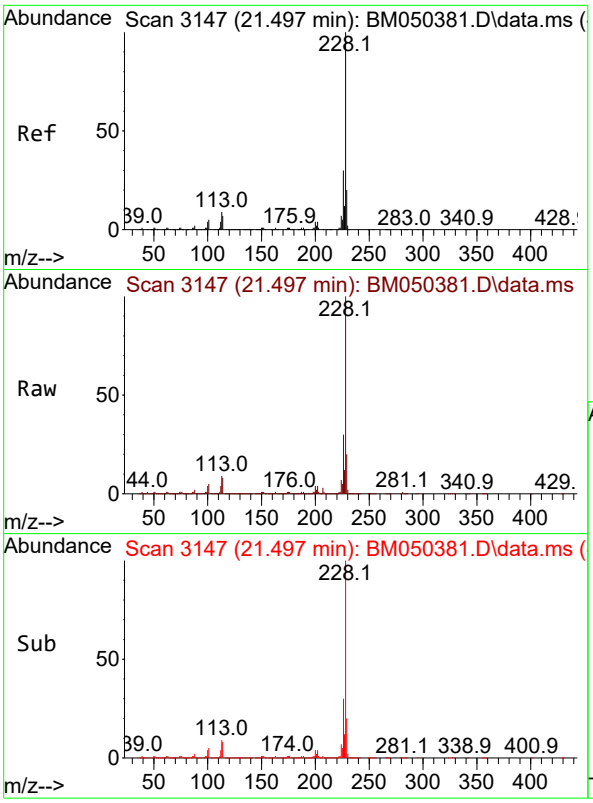


#82
3,3'-Dichlorobenzidine
Concen: 39.036 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:252 Resp: 1633134

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.7	77.5
126	9.1	7.3	10.9

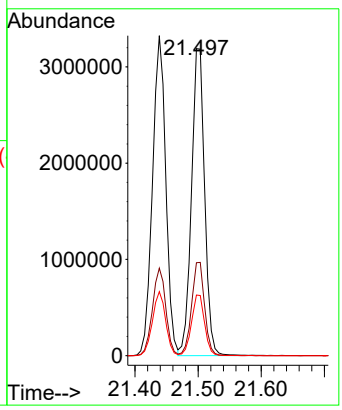




#83
Chrysene
Concen: 39.351 ng
RT: 21.497 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:228 Resp: 460468

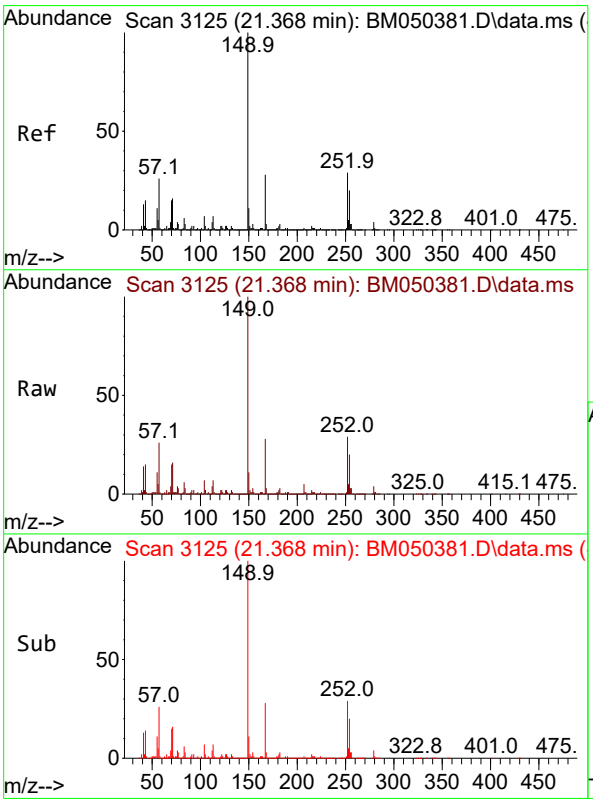
Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.2	36.4
229	19.7	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

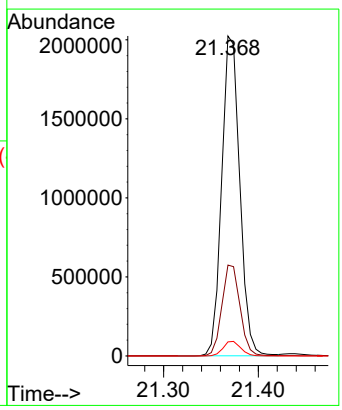
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

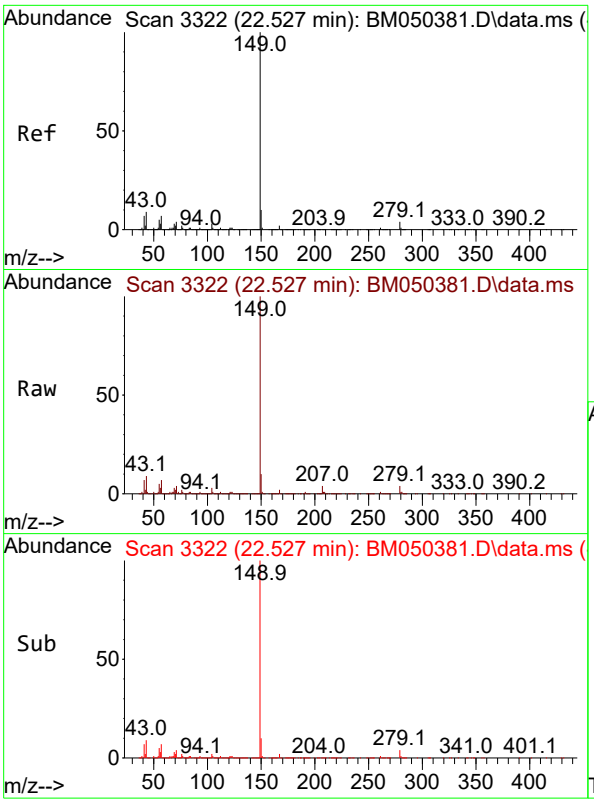


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.076 ng
RT: 21.368 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:149 Resp: 2685699

Ion	Ratio	Lower	Upper
149	100		
167	28.4	22.7	34.1
279	4.4	3.5	5.3

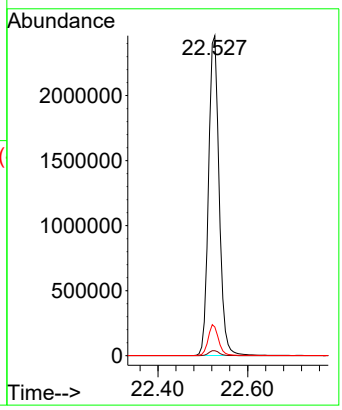




#85
Di-n-octyl phthalate
Concen: 40.294 ng
RT: 22.527 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:149 Resp: 402819

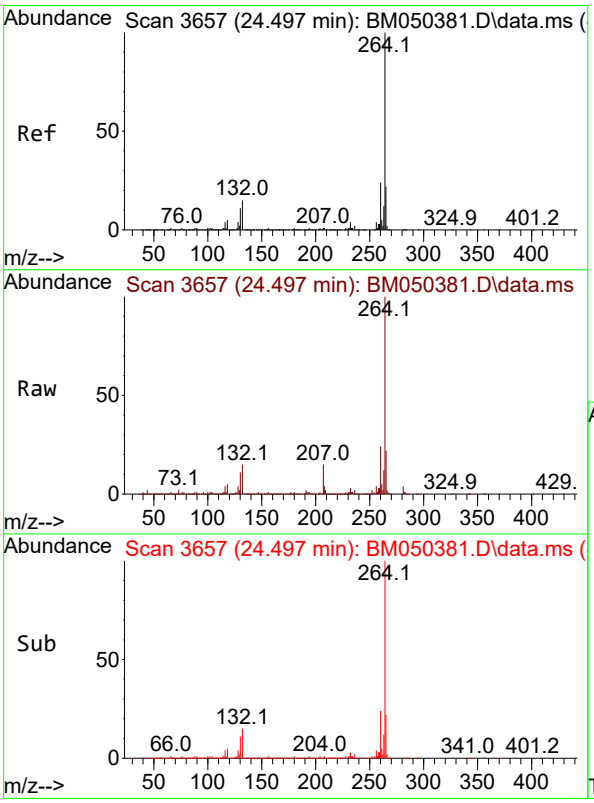
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.6	7.7	11.5



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

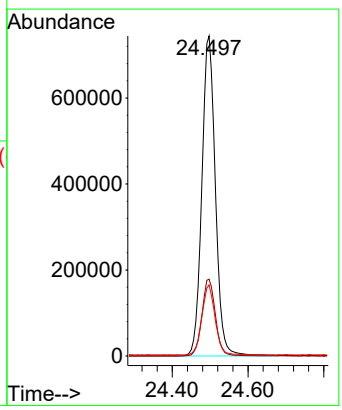
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

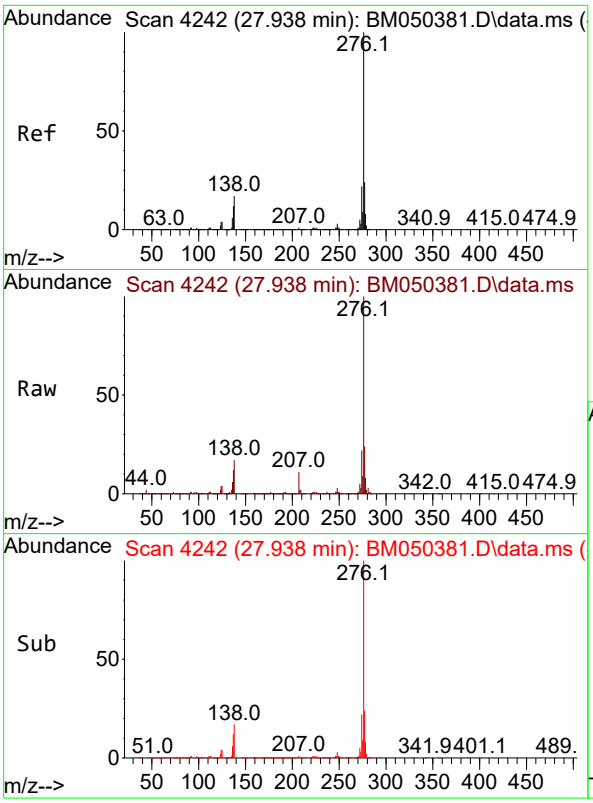


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.497 min Scan# 3657
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:264 Resp: 1842285

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.2	17.8	26.6

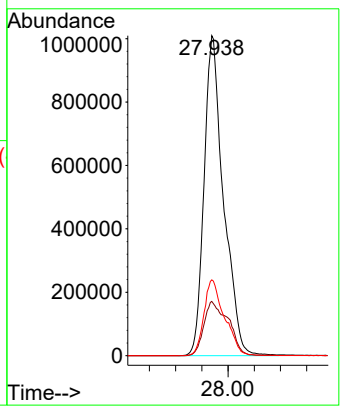




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.813 ng
RT: 27.938 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

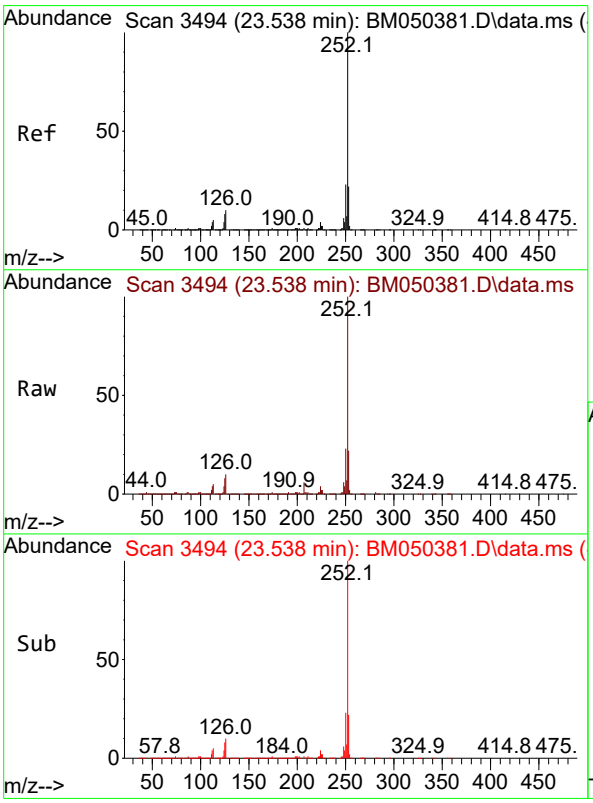
Tgt Ion:276 Resp: 521493

Ion	Ratio	Lower	Upper
276	100		
138	21.3	17.0	25.6
277	25.0	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

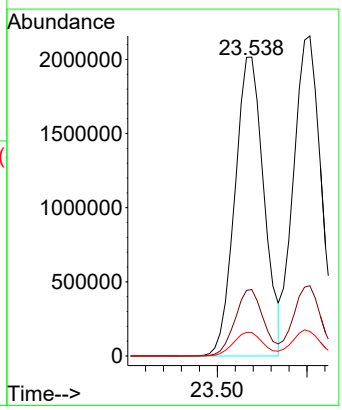
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

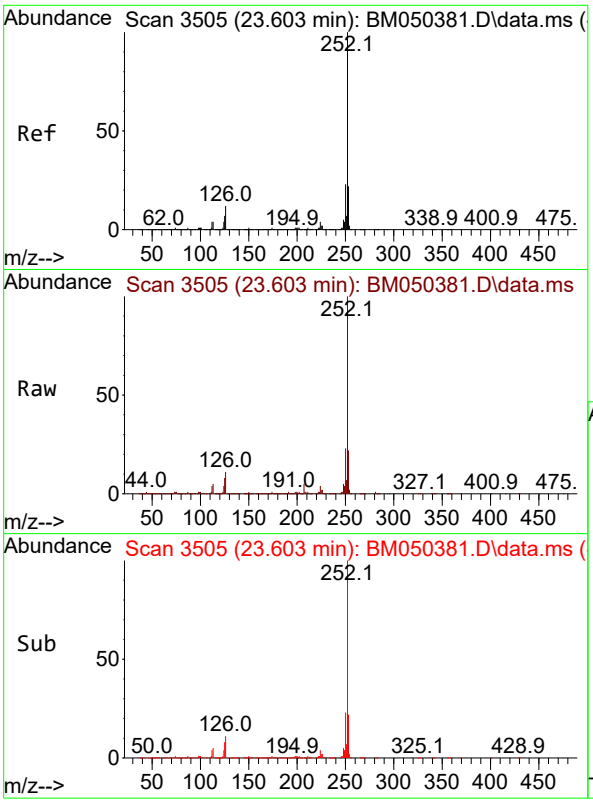


#88
Benzo(b)fluoranthene
Concen: 39.990 ng
RT: 23.538 min Scan# 3494
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:252 Resp: 4531635

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	7.9	6.3	9.5

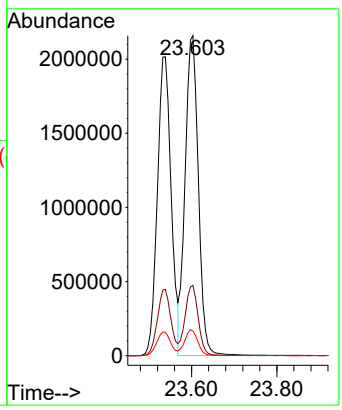




#89
Benzo(k)fluoranthene
Concen: 39.586 ng
RT: 23.603 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

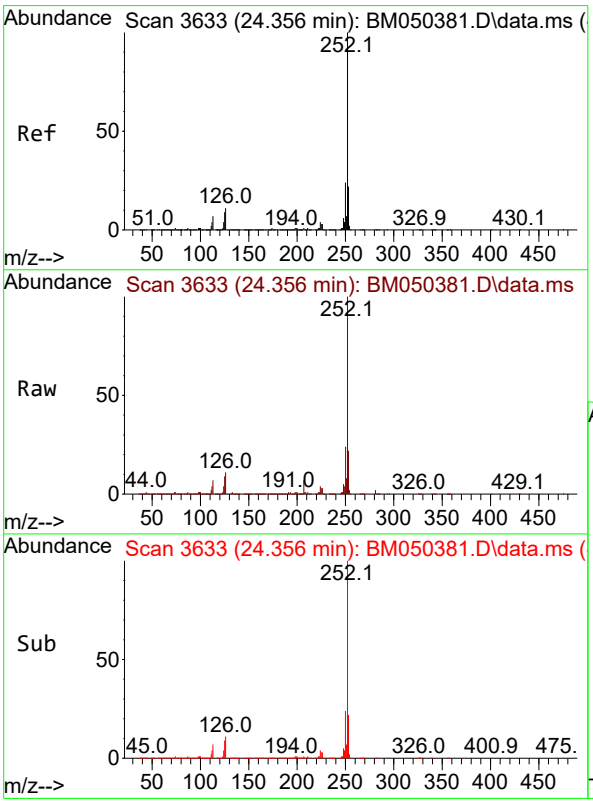
Tgt Ion:252 Resp: 465463

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	7.7	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

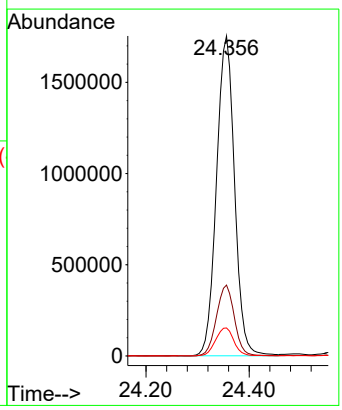
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

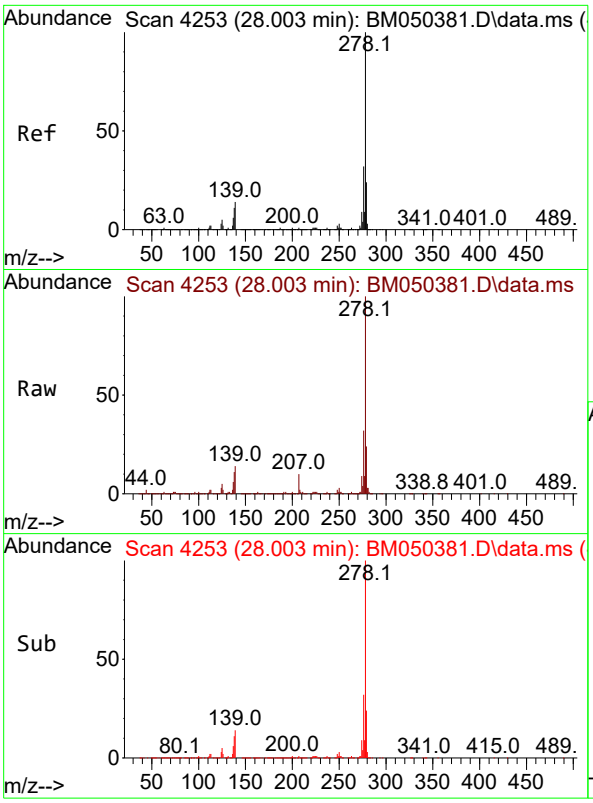


#90
Benzo(a)pyrene
Concen: 40.157 ng
RT: 24.356 min Scan# 3633
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:252 Resp: 4259750

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	8.7	7.0	10.4

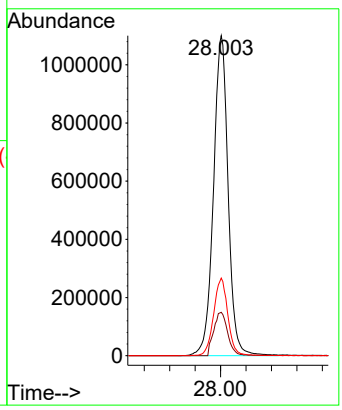




#91
Dibenzo(a,h)anthracene
Concen: 39.857 ng
RT: 28.003 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

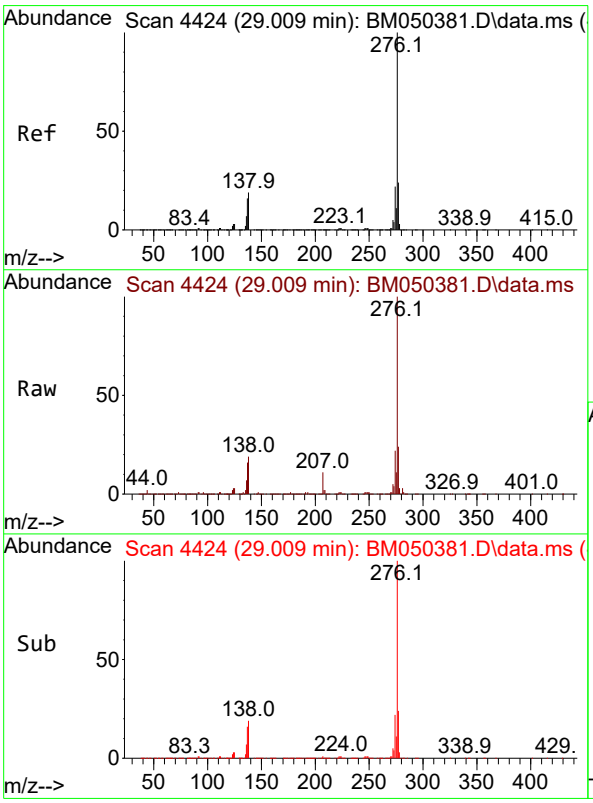
Tgt Ion:278 Resp: 439674

Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.8	16.2
279	24.2	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
SSTDICCC040

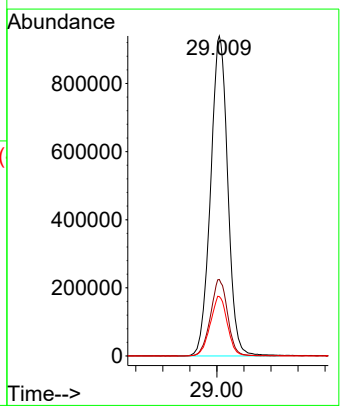
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



#92
Benzo(g,h,i)perylene
Concen: 39.626 ng
RT: 29.009 min Scan# 4424
Delta R.T. 0.000 min
Lab File: BM050381.D
Acq: 08 Jul 2025 15:20

Tgt Ion:276 Resp: 4131353

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.1	28.7
138	18.6	14.9	22.3



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050382.D
Acq On : 08 Jul 2025 16:01
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 18:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.863	152	355414	20.000	ng		0.00
21) Naphthalene-d8	10.663	136	1368622	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	874077	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	1680679	20.000	ng		0.00
76) Chrysene-d12	21.456	240	1747476	20.000	ng		0.00
86) Perylene-d12	24.497	264	1657543	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	2235397	108.263	ng		0.00
7) Phenol-d6	7.022	99	2855911	109.721	ng		0.00
23) Nitrobenzene-d5	9.022	82	2937689	109.508	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	1246384	117.361	ng		0.00
45) 2-Fluorobiphenyl	13.122	172	7659625	108.218	ng		0.00
79) Terphenyl-d14	19.839	244	11336982	114.147	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.334	88	445164	52.431	ng		99
3) Pyridine	3.734	79	1187050	53.254	ng		98
4) n-Nitrosodimethylamine	3.640	42	550809	53.005	ng		100
6) Aniline	7.187	93	1814285	54.314	ng		99
8) 2-Chlorophenol	7.428	128	1191374	54.720	ng		100
9) Benzaldehyde	6.998	77	743485m	48.013	ng		
10) Phenol	7.051	94	1479916	54.513	ng		100
11) bis(2-Chloroethyl)ether	7.287	93	1176258	54.102	ng		98
12) 1,3-Dichlorobenzene	7.757	146	1403509	53.015	ng		98
13) 1,4-Dichlorobenzene	7.904	146	1430908	52.933	ng		99
14) 1,2-Dichlorobenzene	8.216	146	1369382	52.912	ng		99
15) Benzyl Alcohol	8.098	79	1000035	54.529	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.398	45	1694093	52.899	ng		99
17) 2-Methylphenol	8.298	107	967335	54.938	ng		98
18) Hexachloroethane	8.951	117	510428	53.689	ng		99
19) n-Nitroso-di-n-propyla...	8.675	70	892537	56.604	ng		98
20) 3+4-Methylphenols	8.628	107	1295330	54.800	ng		98
22) Acetophenone	8.687	105	1828595	53.438	ng	#	97
24) Nitrobenzene	9.063	77	1289779	53.879	ng		99
25) Isophorone	9.592	82	2401483	55.168	ng		100
26) 2-Nitrophenol	9.775	139	569906	58.414	ng		99
27) 2,4-Dimethylphenol	9.834	122	1124761	54.178	ng		98
28) bis(2-Chloroethoxy)met...	10.069	93	1555003	53.910	ng		99
29) 2,4-Dichlorophenol	10.304	162	1175856	55.130	ng		99
30) 1,2,4-Trichlorobenzene	10.528	180	1359109	53.267	ng		99
31) Naphthalene	10.716	128	3662846	52.691	ng		100
32) Benzoic acid	9.957	122	666467	51.765	ng		99
33) 4-Chloroaniline	10.810	127	1592528	54.189	ng		99
34) Hexachlorobutadiene	11.010	225	835314	53.639	ng		99
35) Caprolactam	11.586	113	328173	56.364	ng		98
36) 4-Chloro-3-methylphenol	11.933	107	1114543	55.959	ng		100
37) 2-Methylnaphthalene	12.322	142	2369763	53.990	ng		98
38) 1-Methylnaphthalene	12.539	142	2518911	54.226	ng		100
40) 1,2,4,5-Tetrachloroben...	12.692	216	1528897	55.004	ng		99
41) Hexachlorocyclopentadiene	12.680	237	982675	55.306	ng		98
43) 2,4,6-Trichlorophenol	12.927	196	968128	56.583	ng		98

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050382.D
Acq On : 08 Jul 2025 16:01
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 18:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.992	196	1058158	56.628	ng	99
46) 1,1'-Biphenyl	13.333	154	3466190	53.449	ng	99
47) 2-Chloronaphthalene	13.369	162	2768272	53.538	ng	100
48) 2-Nitroaniline	13.563	65	682263	59.115	ng	100
49) Acenaphthylene	14.216	152	4274915	54.707	ng	100
50) Dimethylphthalate	13.951	163	3290612	54.681	ng	100
51) 2,6-Dinitrotoluene	14.063	165	672335	58.189	ng	100
52) Acenaphthene	14.557	154	2689063	54.128	ng	99
53) 3-Nitroaniline	14.386	138	722162	58.770	ng	100
54) 2,4-Dinitrophenol	14.586	184	305096	50.427	ng	98
55) Dibenzofuran	14.892	168	4109027	53.680	ng	100
56) 4-Nitrophenol	14.686	139	602964	57.060	ng	96
57) 2,4-Dinitrotoluene	14.845	165	922804	53.047	ng	98
58) Fluorene	15.539	166	3457484	54.837	ng	100
59) 2,3,4,6-Tetrachlorophenol	15.116	232	885196	56.275	ng	100
60) Diethylphthalate	15.316	149	3176896	55.265	ng	100
61) 4-Chlorophenyl-phenyle...	15.533	204	1834247	55.637	ng	100
62) 4-Nitroaniline	15.545	138	765716	53.869	ng	98
63) Azobenzene	15.827	77	2917647	55.274	ng	99
65) 4,6-Dinitro-2-methylph...	15.604	198	458700	50.395	ng	98
66) n-Nitrosodiphenylamine	15.745	169	2847134	54.137	ng	99
67) 4-Bromophenyl-phenylether	16.427	248	1016241	54.881	ng	99
68) Hexachlorobenzene	16.539	284	1190183	54.420	ng	98
69) Atrazine	16.692	200	975743	56.502	ng	98
70) Pentachlorophenol	16.874	266	762216	55.986	ng	99
71) Phenanthrene	17.268	178	5068282	53.293	ng	100
72) Anthracene	17.362	178	5179830	54.717	ng	100
73) Carbazole	17.621	167	4657232	54.372	ng	100
74) Di-n-butylphthalate	18.198	149	5258750	56.091	ng	100
75) Fluoranthene	19.274	202	5737944	55.500	ng	99
77) Benzidine	19.456	184	2626171	58.920	ng	100
78) Pyrene	19.639	202	6064476	54.187	ng	100
80) Butylbenzylphthalate	20.539	149	2150816	58.284	ng	100
81) Benzo(a)anthracene	21.439	228	6238737	54.793	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	2176770	56.690	ng	100
83) Chrysene	21.503	228	5797980	53.988	ng	100
84) Bis(2-ethylhexyl)phtha...	21.374	149	3407481	58.166	ng	99
85) Di-n-octyl phthalate	22.527	149	5213026	56.816	ng	99
87) Indeno(1,2,3-cd)pyrene	27.944	276	6640722	56.349	ng	100
88) Benzo(b)fluoranthene	23.539	252	5667484	55.588	ng	100
89) Benzo(k)fluoranthene	23.603	252	5984419	56.568	ng	99
90) Benzo(a)pyrene	24.356	252	5445326	57.054	ng	99
91) Dibenzo(a,h)anthracene	28.009	278	5603613	56.460	ng	99
92) Benzo(g,h,i)perylene	29.015	276	5235761	55.817	ng	99

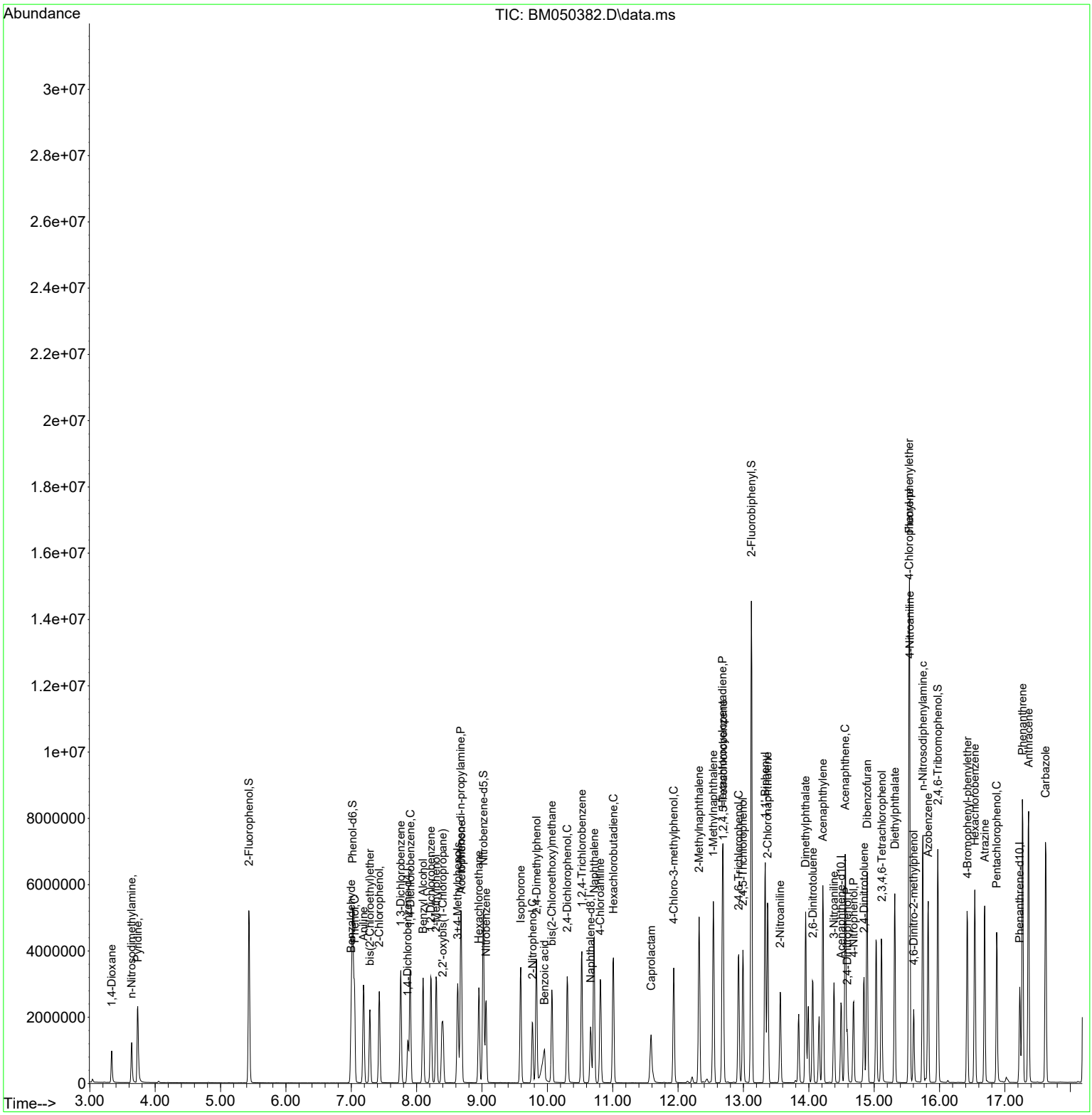
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050382.D
Acq On : 08 Jul 2025 16:01
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 18:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

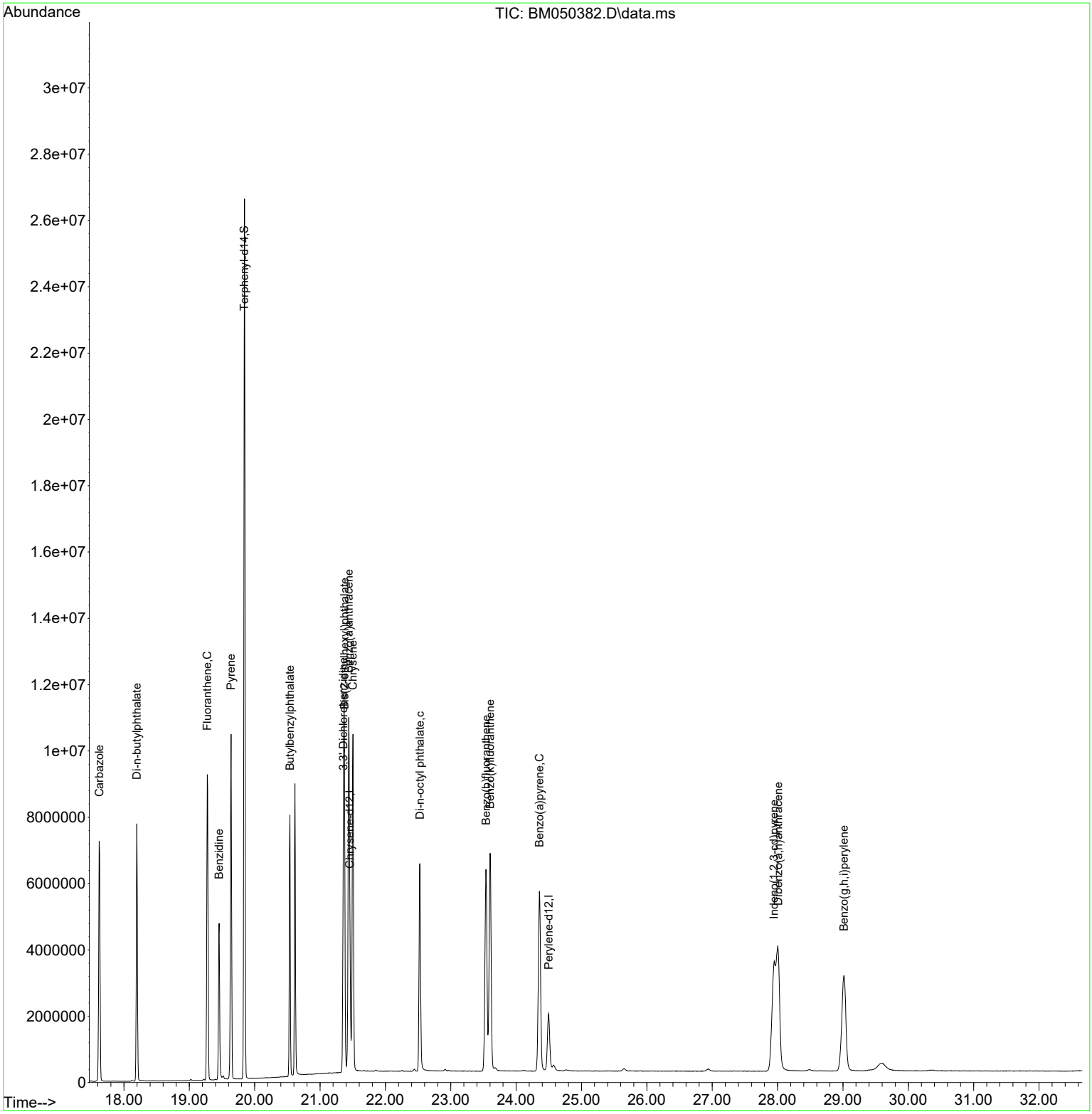


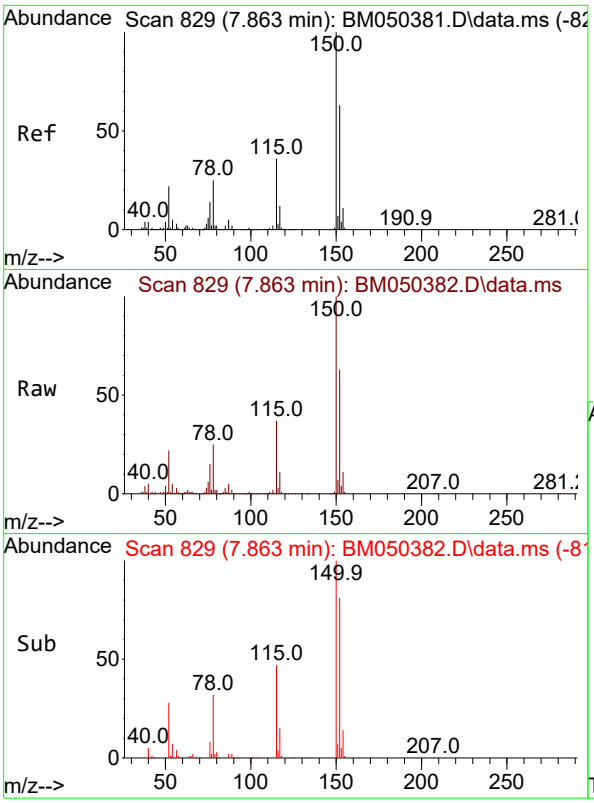
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050382.D
Acq On : 08 Jul 2025 16:01
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 08 18:23:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

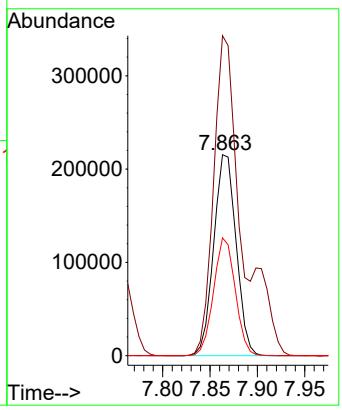




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:152 Resp: 35541

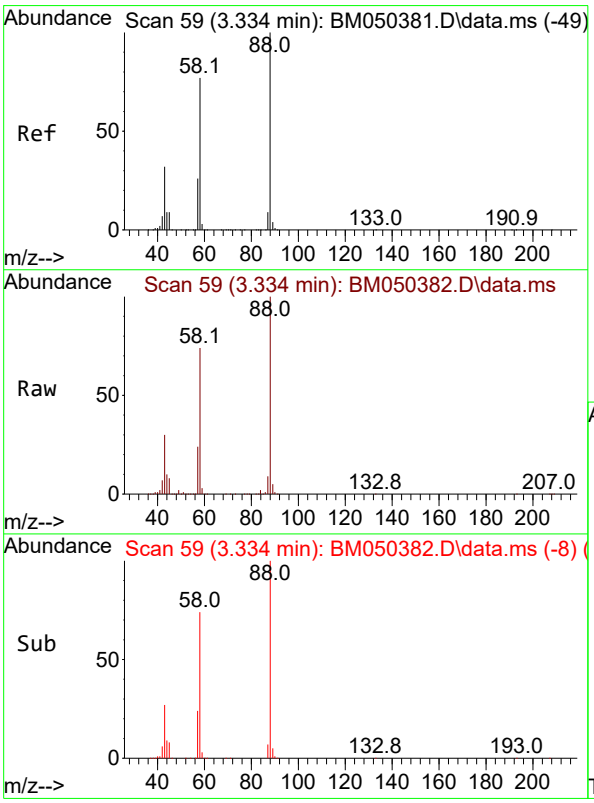
Ion	Ratio	Lower	Upper
152	100		
150	159.3	126.2	189.4
115	58.6	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

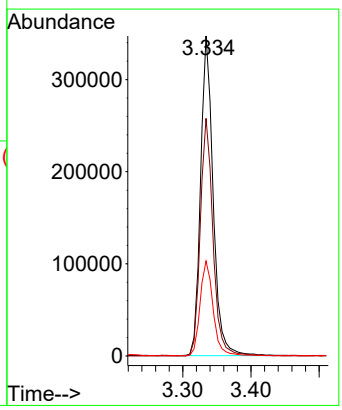
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

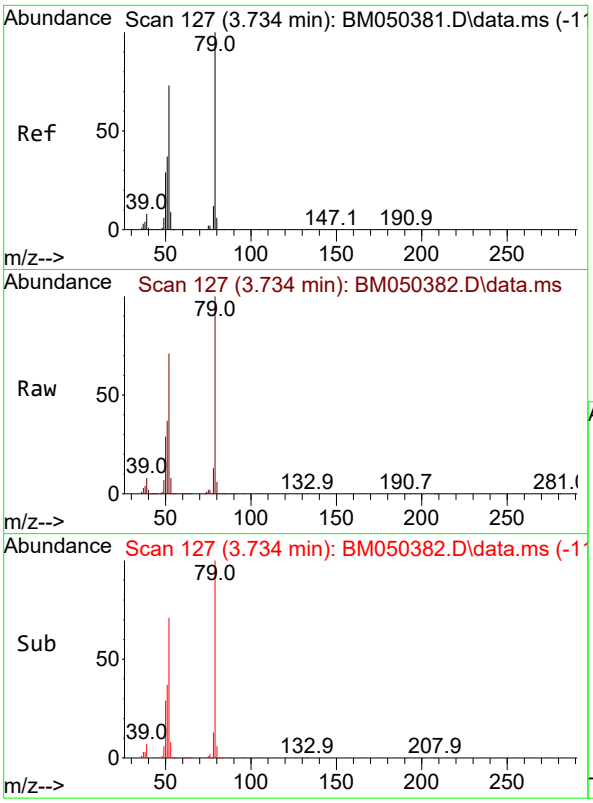


#2
1,4-Dioxane
Concen: 52.431 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 88 Resp: 445164

Ion	Ratio	Lower	Upper
88	100		
58	75.1	61.0	91.6
43	30.8	24.6	37.0

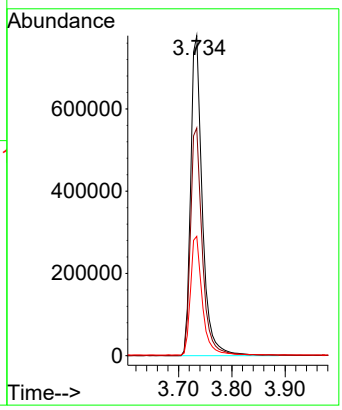




#3
Pyridine
Concen: 53.254 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 79 Resp: 118705

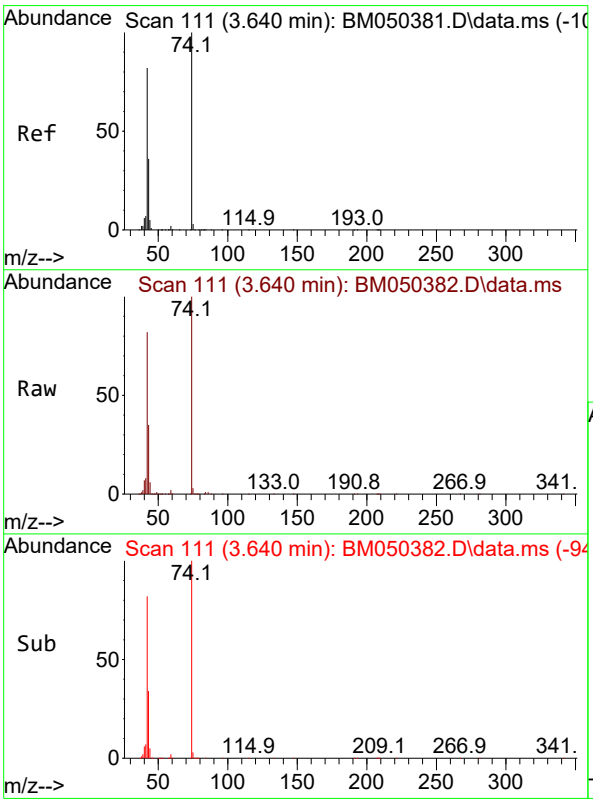
Ion	Ratio	Lower	Upper
79	100		
52	71.2	58.3	87.5
51	37.3	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

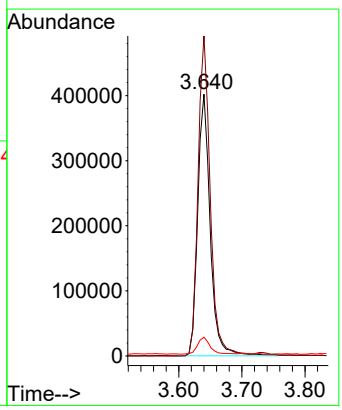
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

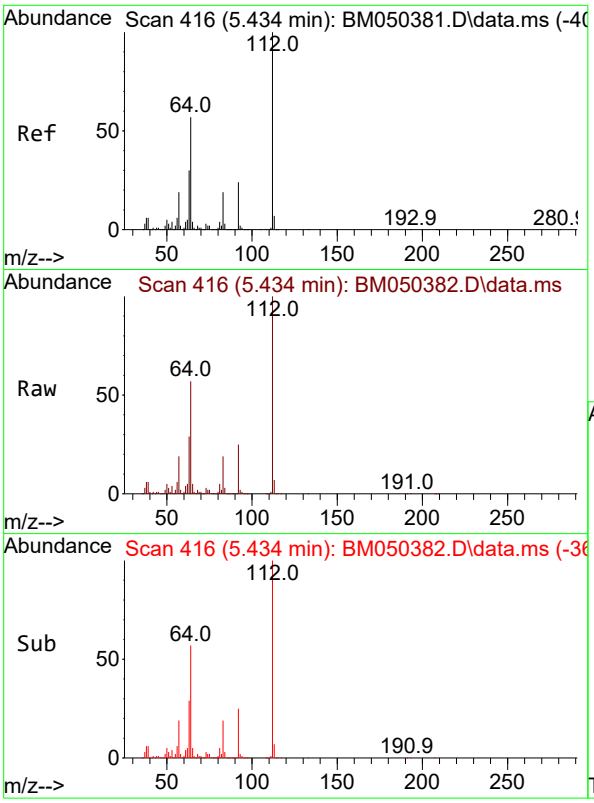


#4
n-Nitrosodimethylamine
Concen: 53.005 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 42 Resp: 550809

Ion	Ratio	Lower	Upper
42	100		
74	122.3	97.5	146.3
44	7.2	5.7	8.5

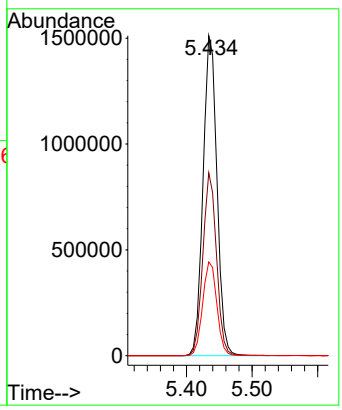




#5
2-Fluorophenol
Concen: 108.263 ng
RT: 5.434 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:112 Resp: 223539

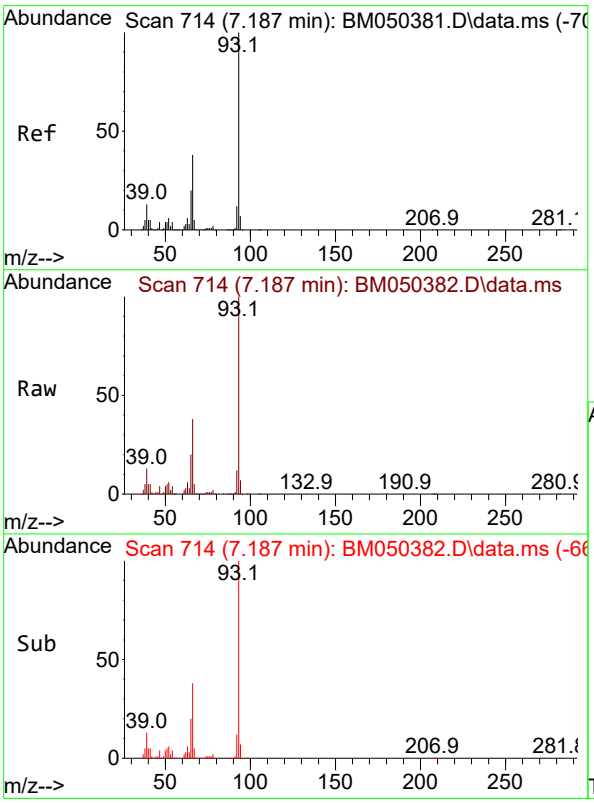
Ion	Ratio	Lower	Upper
112	100		
64	57.1	45.5	68.3
63	29.3	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

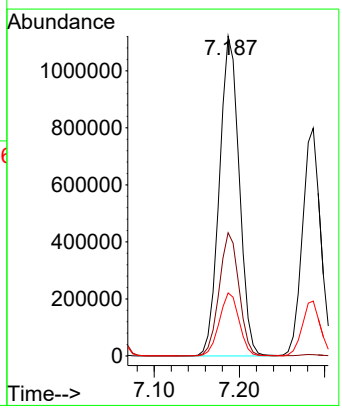
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

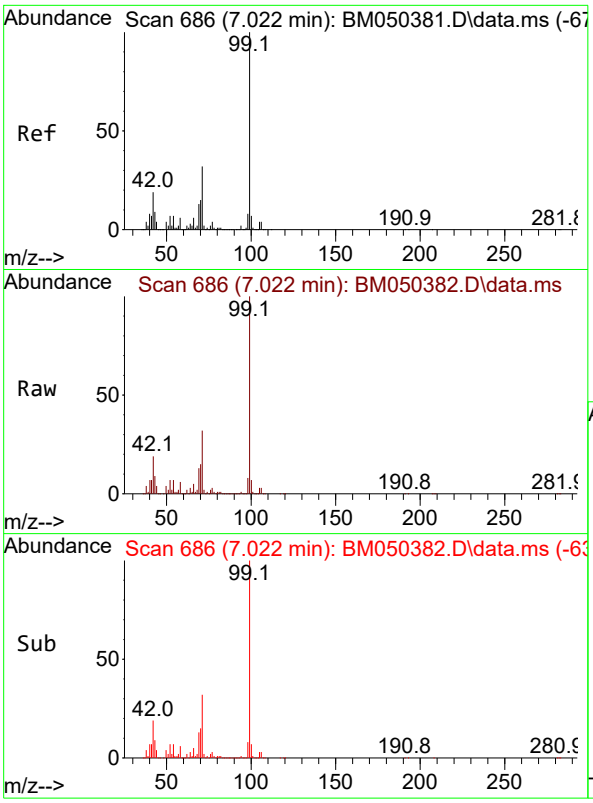


#6
Aniline
Concen: 54.314 ng
RT: 7.187 min Scan# 714
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 93 Resp: 1814285

Ion	Ratio	Lower	Upper
93	100		
66	38.5	30.5	45.7
65	19.7	15.9	23.9

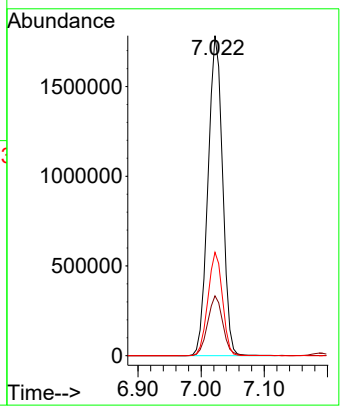




#7
Phenol-d6
Concen: 109.721 ng
RT: 7.022 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 99 Resp: 285591

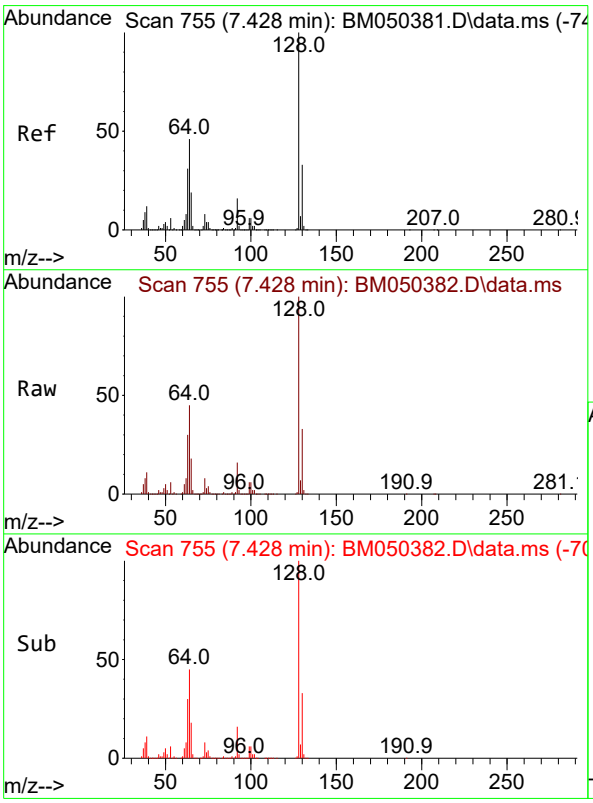
Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.0	22.6
71	32.3	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

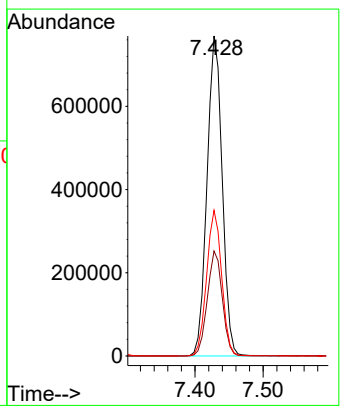
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

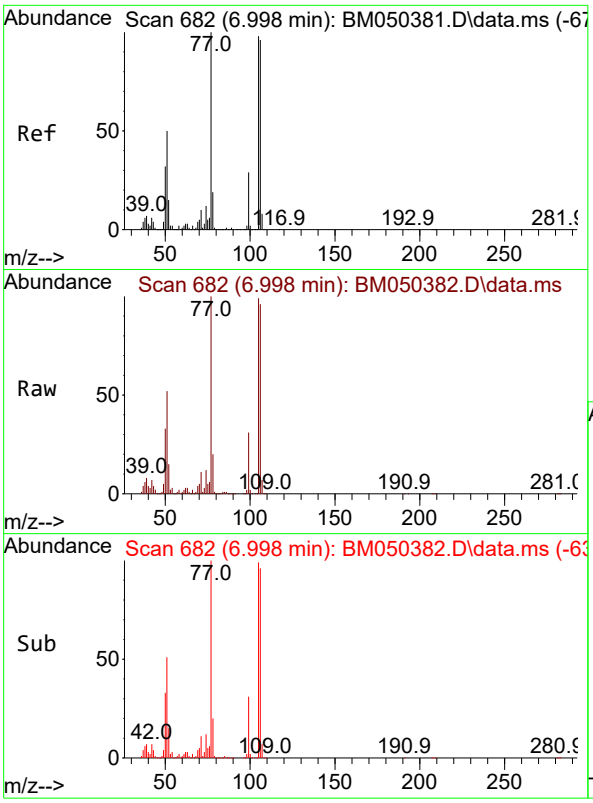


#8
2-Chlorophenol
Concen: 54.720 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:128 Resp: 1191374

Ion	Ratio	Lower	Upper
128	100		
130	32.8	13.3	53.3
64	45.5	25.6	65.6

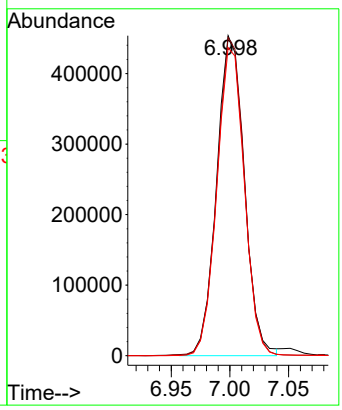




#9
Benzaldehyde
Concen: 48.013 ng m
RT: 6.998 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 77 Resp: 74348

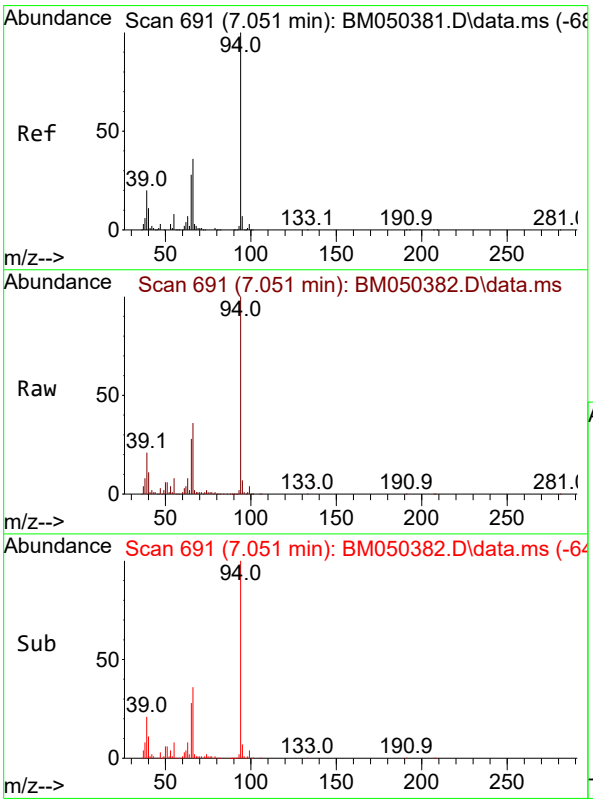
Ion	Ratio	Lower	Upper
77	100		
105	99.4	78.4	118.4
106	96.2	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

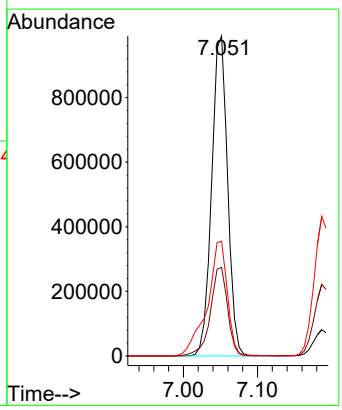
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

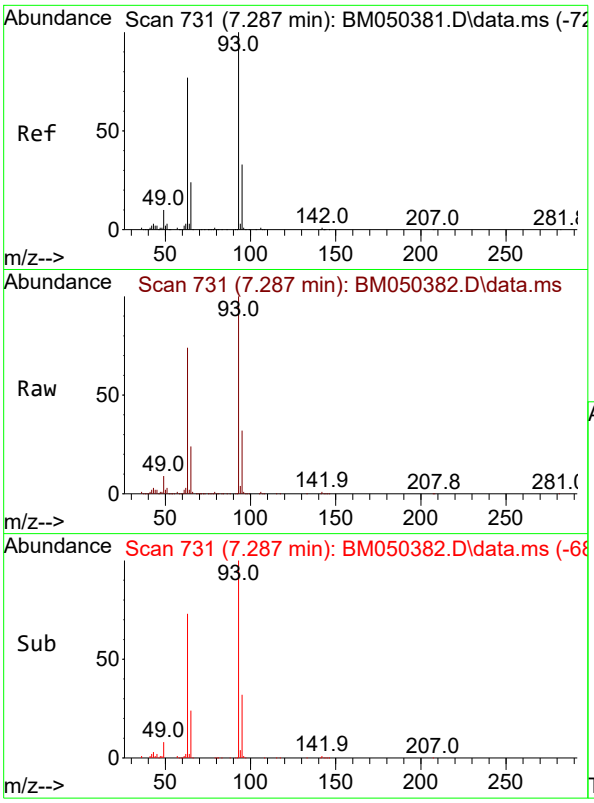


#10
Phenol
Concen: 54.513 ng
RT: 7.051 min Scan# 691
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 94 Resp: 1479916

Ion	Ratio	Lower	Upper
94	100		
65	27.7	8.1	48.1
66	35.8	15.8	55.8

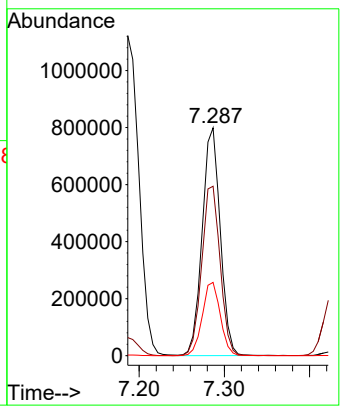




#11
bis(2-Chloroethyl)ether
Concen: 54.102 ng
RT: 7.287 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 93 Resp: 117625

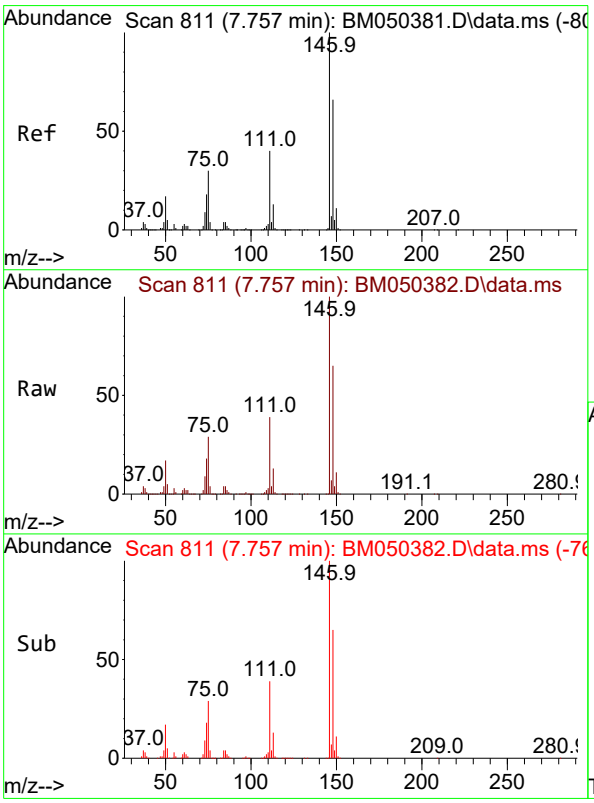
Ion	Ratio	Lower	Upper
93	100		
63	74.4	56.9	96.9
95	32.1	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

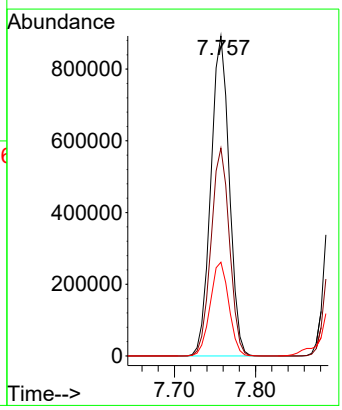
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

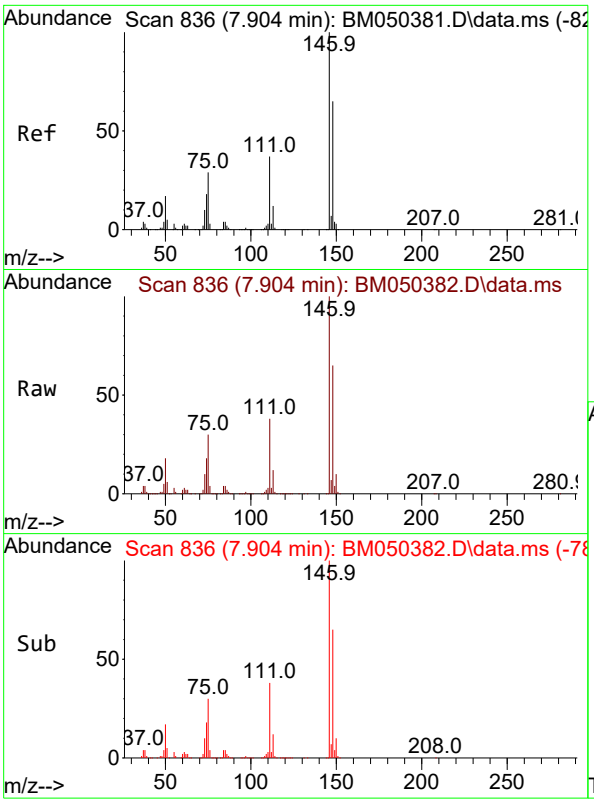


#12
1,3-Dichlorobenzene
Concen: 53.015 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:146 Resp: 1403509

Ion	Ratio	Lower	Upper
146	100		
148	64.9	53.2	79.8
75	29.3	23.9	35.9

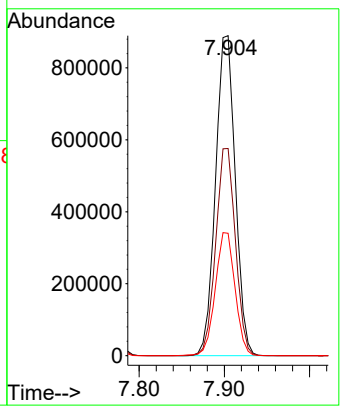




#13
1,4-Dichlorobenzene
Concen: 52.933 ng
RT: 7.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:146 Resp: 143090

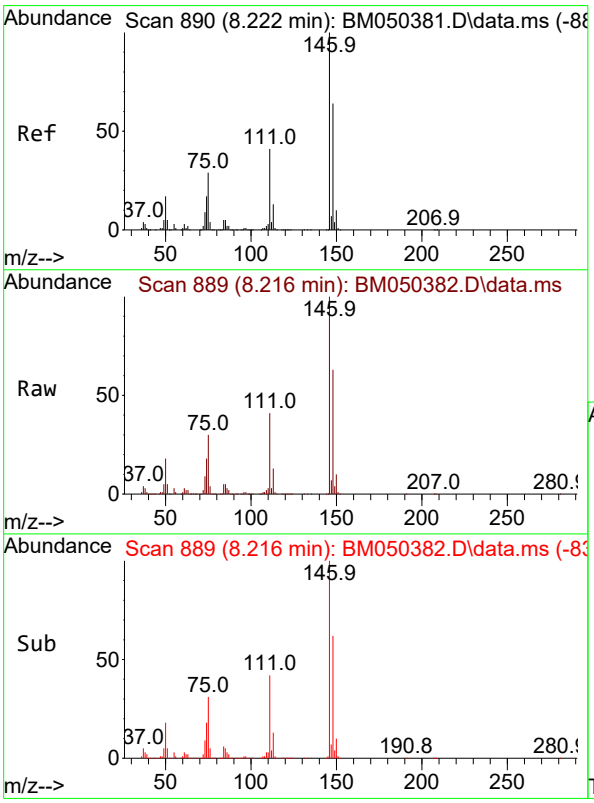
Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.9	77.9
111	38.2	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

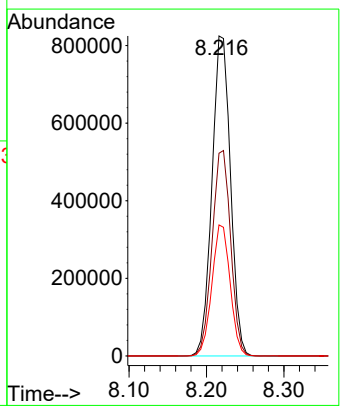
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

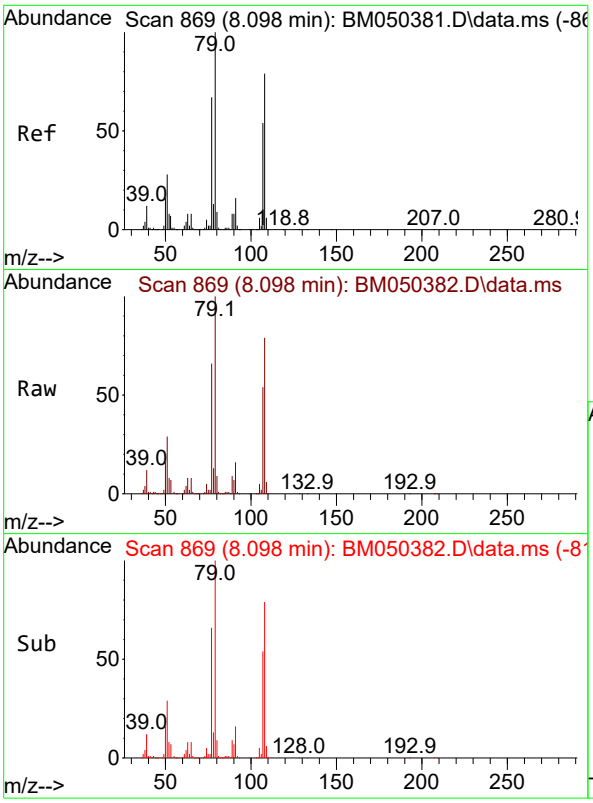


#14
1,2-Dichlorobenzene
Concen: 52.912 ng
RT: 8.216 min Scan# 889
Delta R.T. -0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:146 Resp: 1369382

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.5	77.3
111	40.9	32.6	49.0





#15
Benzyl Alcohol
Concen: 54.529 ng
RT: 8.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

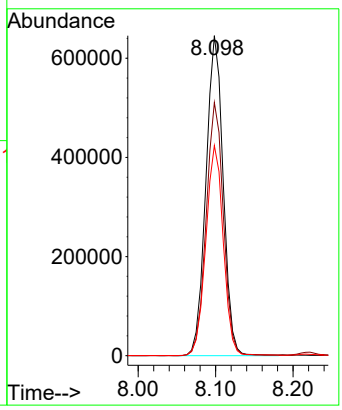
Tgt Ion: 79 Resp: 100003

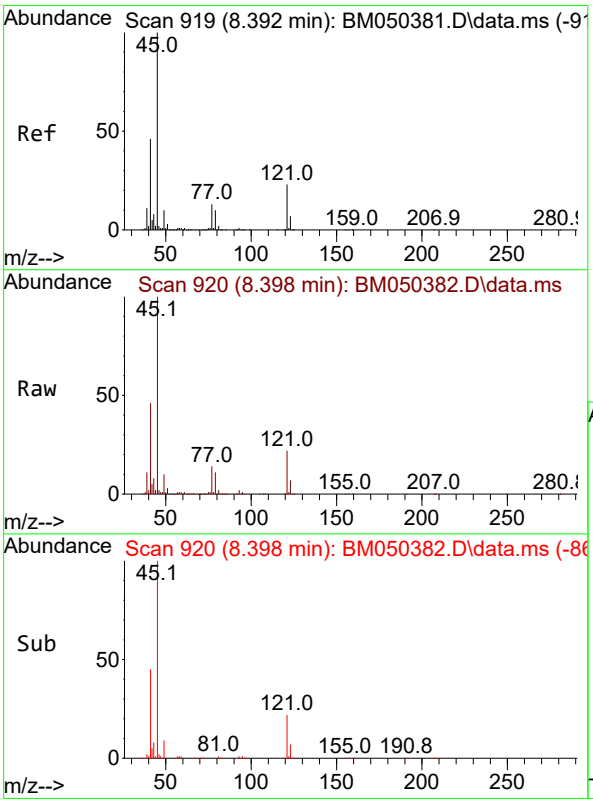
Ion	Ratio	Lower	Upper
79	100		
108	79.1	63.0	94.4
77	65.7	53.4	80.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

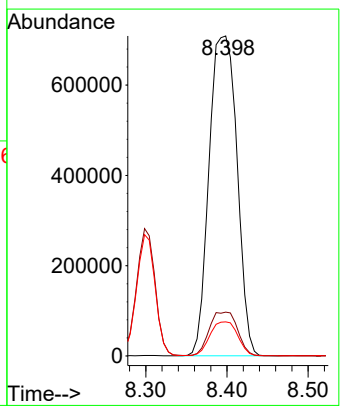


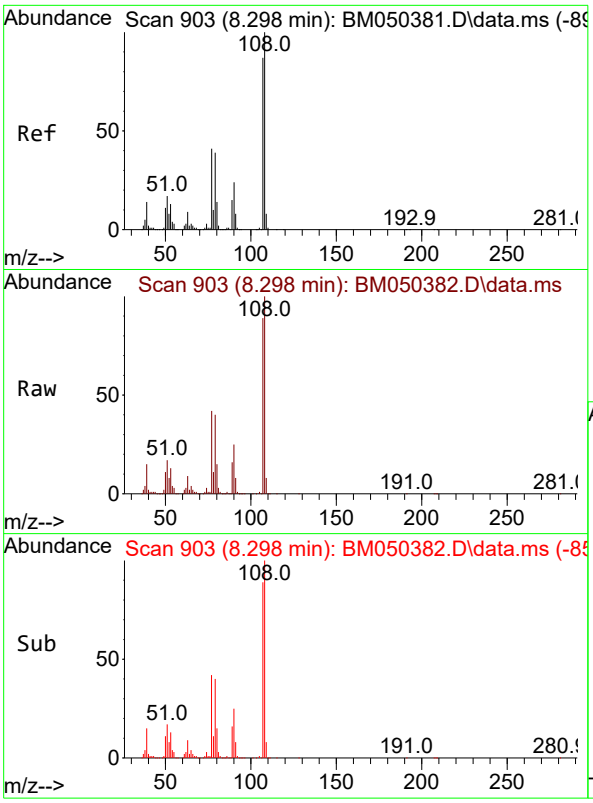


#16
2,2'-oxybis(1-Chloropropane)
Concen: 52.899 ng
RT: 8.398 min Scan# 920
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 45 Resp: 1694093

Ion	Ratio	Lower	Upper
45	100		
77	13.7	0.0	33.5
79	10.7	0.0	30.3

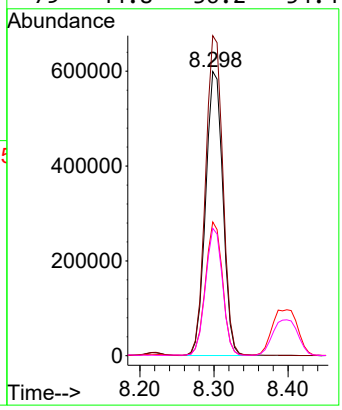




#17
2-Methylphenol
Concen: 54.938 ng
RT: 8.298 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:107 Resp: 96733

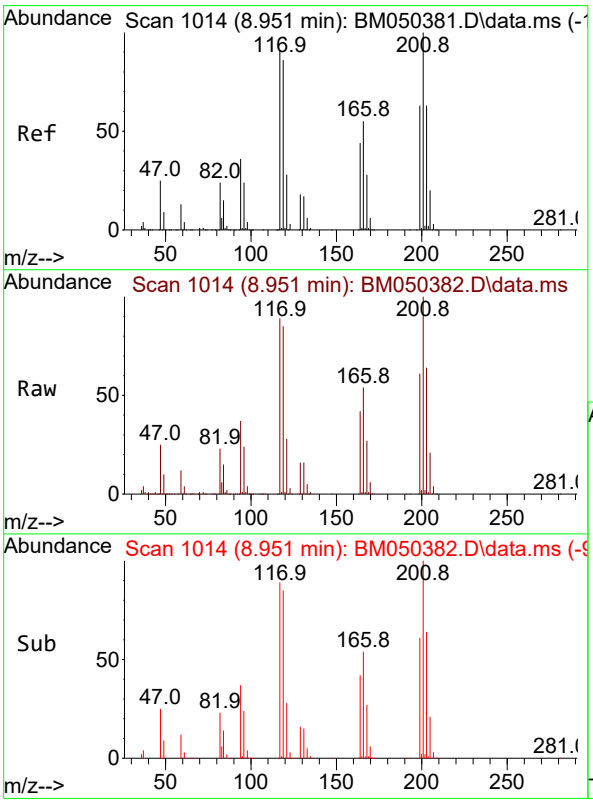
Ion	Ratio	Lower	Upper
107	100		
108	112.6	92.1	138.1
77	47.0	38.2	57.4
79	44.8	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

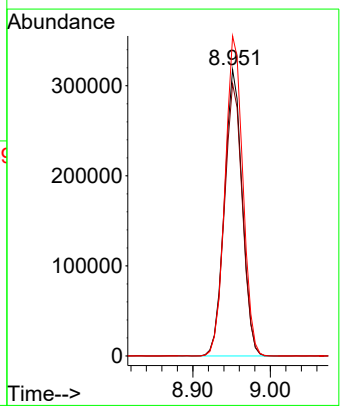
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

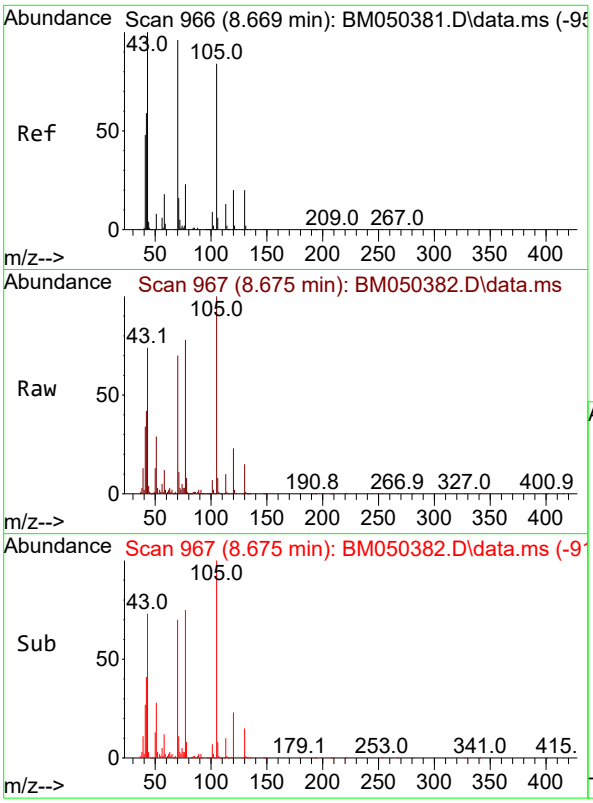


#18
Hexachloroethane
Concen: 53.689 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:117 Resp: 510428

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.6	113.4
201	111.8	87.9	131.9

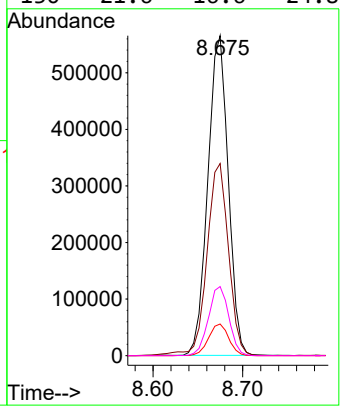




#19
n-Nitroso-di-n-propylamine
Concen: 56.604 ng
RT: 8.675 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

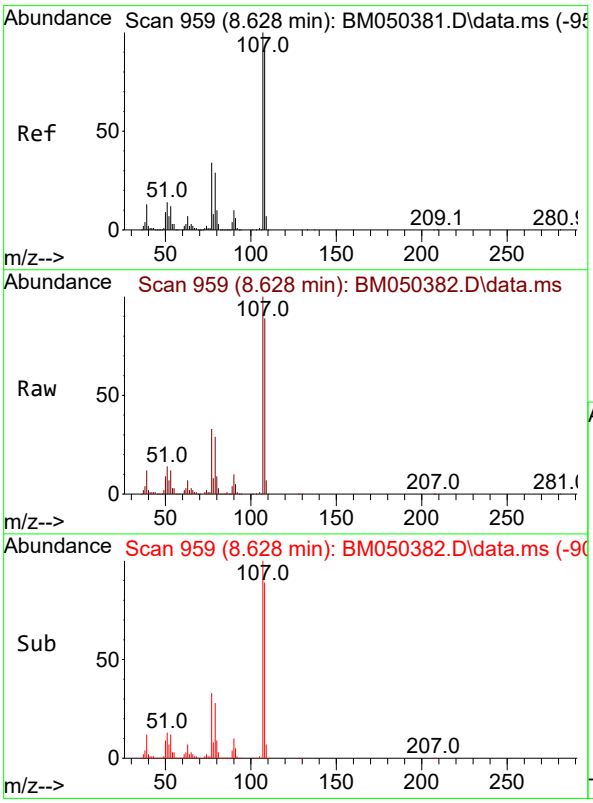
Tgt Ion: 70 Resp: 89253

Ion	Ratio	Lower	Upper
70	100		
42	60.1	49.7	74.5
101	9.9	7.7	11.5
130	21.6	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

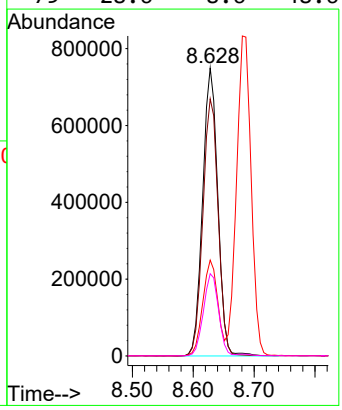
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

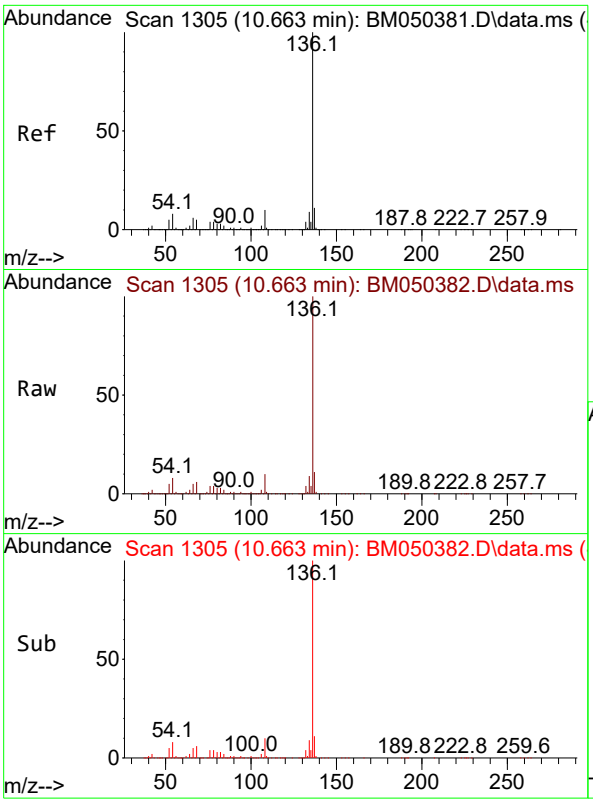


#20
3+4-Methylphenols
Concen: 54.800 ng
RT: 8.628 min Scan# 959
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:107 Resp: 1295330

Ion	Ratio	Lower	Upper
107	100		
108	89.3	71.5	111.5
77	33.3	13.7	53.7
79	28.6	8.6	48.6

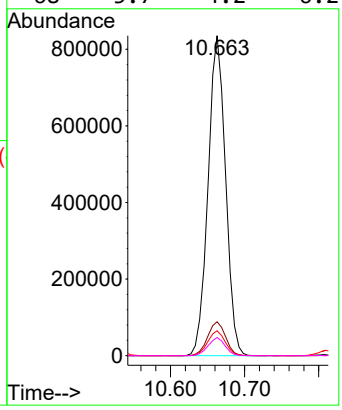




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:136 Resp: 136862

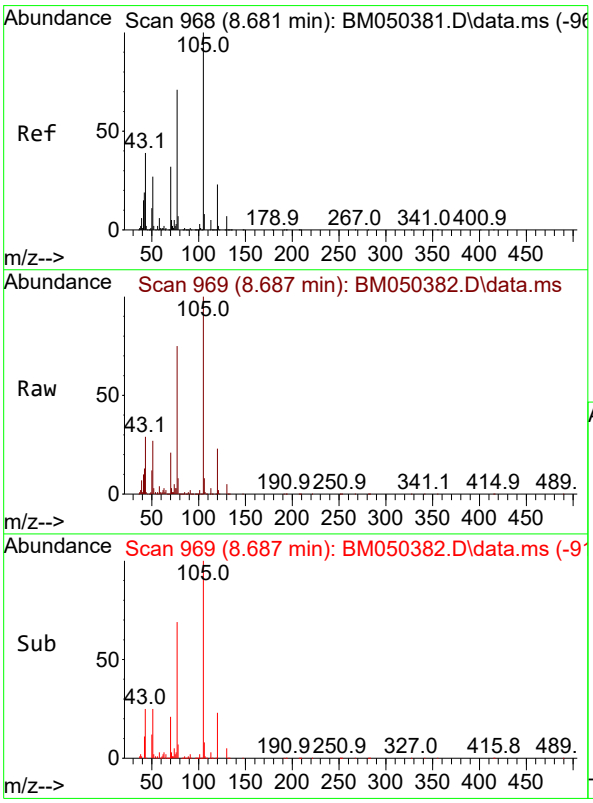
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	7.8	6.3	9.5
68	5.7	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

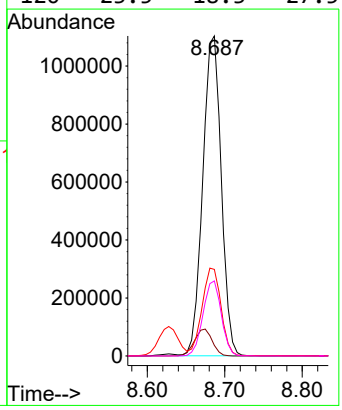
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

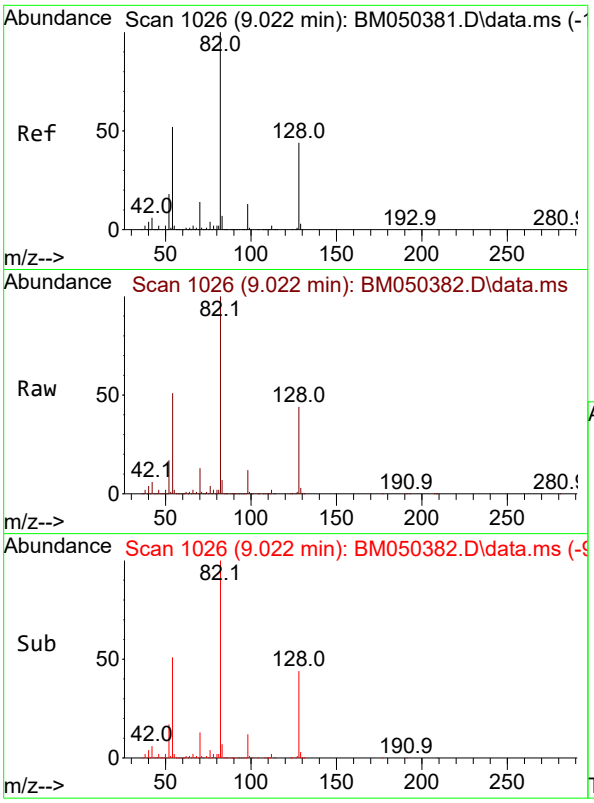


#22
Acetophenone
Concen: 53.438 ng
RT: 8.687 min Scan# 969
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:105 Resp: 1828595

Ion	Ratio	Lower	Upper
105	100		
71	3.3	4.4	6.6#
51	27.0	23.0	34.6
120	23.5	18.3	27.5

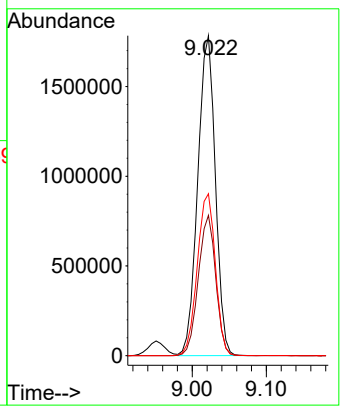




#23
Nitrobenzene-d5
Concen: 109.508 ng
RT: 9.022 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 82 Resp: 293768

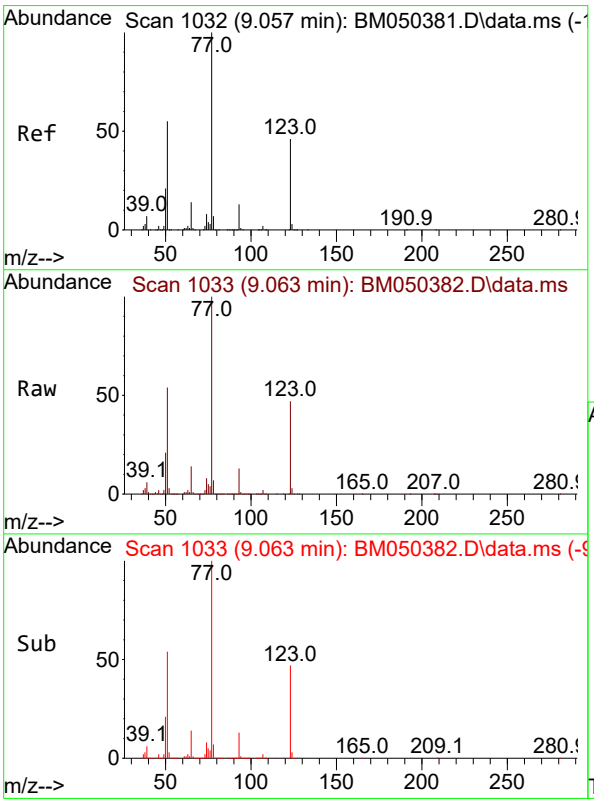
Ion	Ratio	Lower	Upper
82	100		
128	43.9	35.2	52.8
54	50.6	41.5	62.3



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

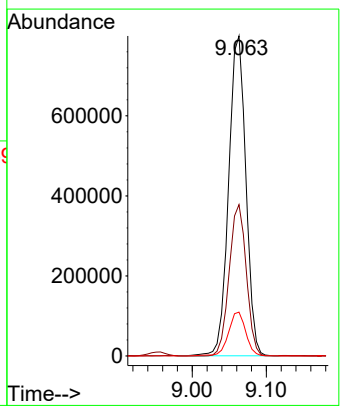
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

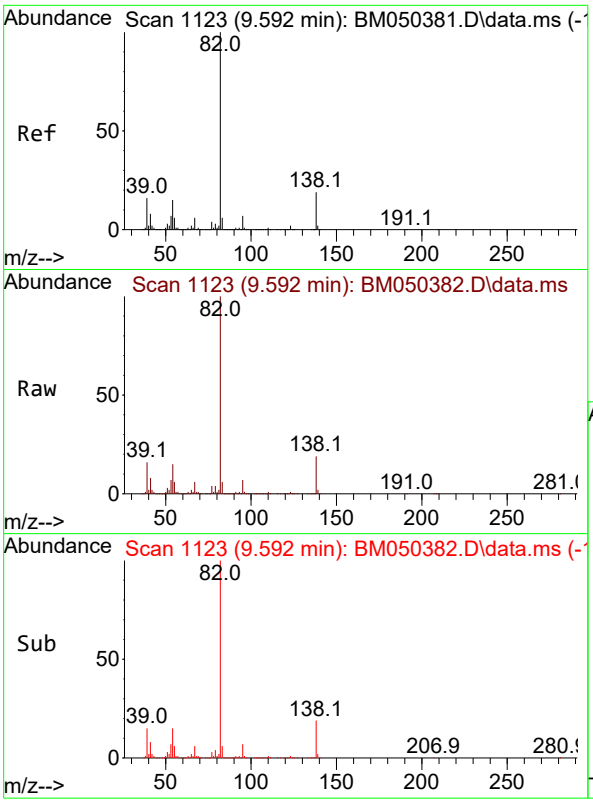


#24
Nitrobenzene
Concen: 53.879 ng
RT: 9.063 min Scan# 1033
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 77 Resp: 1289779

Ion	Ratio	Lower	Upper
77	100		
123	47.3	37.0	55.6
65	13.7	11.0	16.4

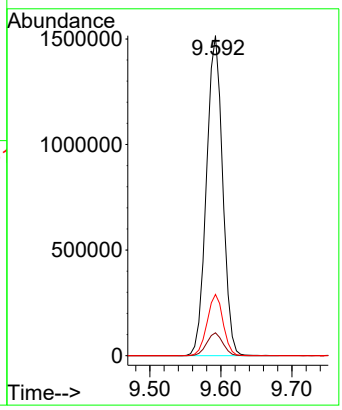




#25
Isophorone
Concen: 55.168 ng
RT: 9.592 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

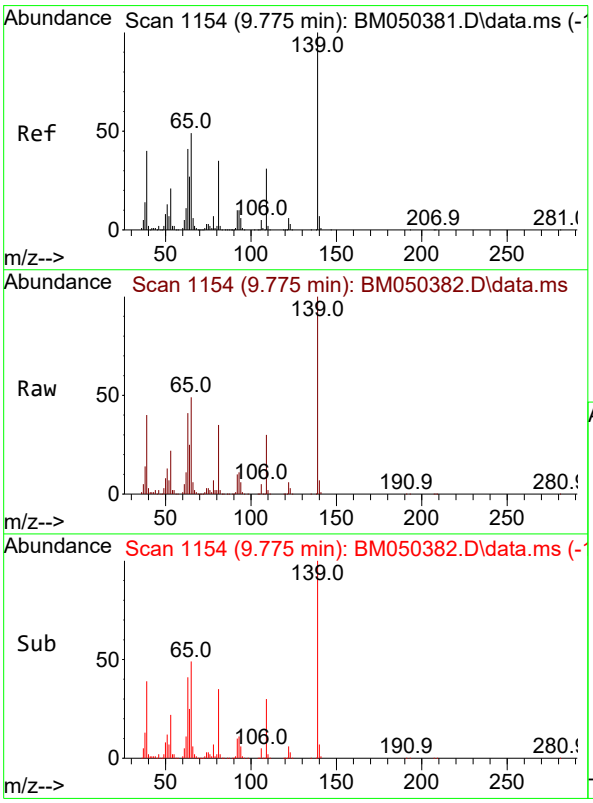
Tgt Ion: 82 Resp: 240148

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.6	8.4
138	19.2	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

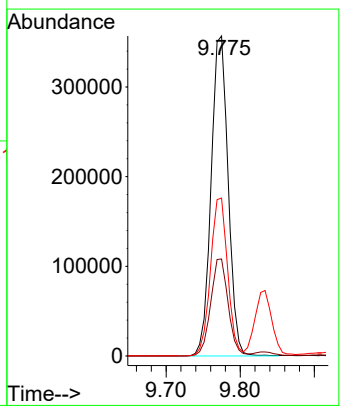
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

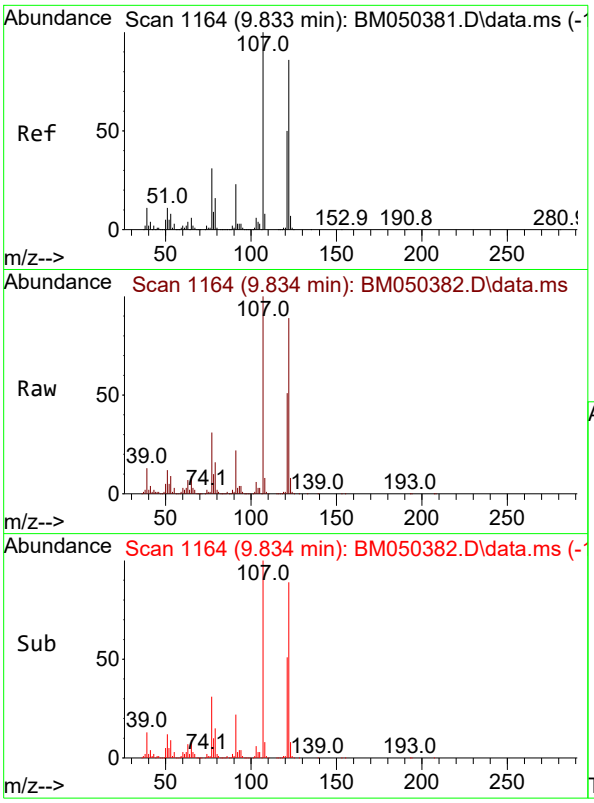


#26
2-Nitrophenol
Concen: 58.414 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:139 Resp: 569906

Ion	Ratio	Lower	Upper
139	100		
109	30.3	24.6	36.8
65	49.3	39.2	58.8

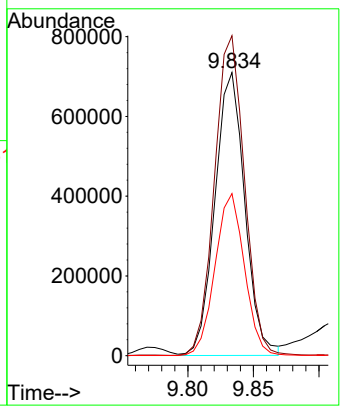




#27
2,4-Dimethylphenol
Concen: 54.178 ng
RT: 9.834 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:122 Resp: 112476

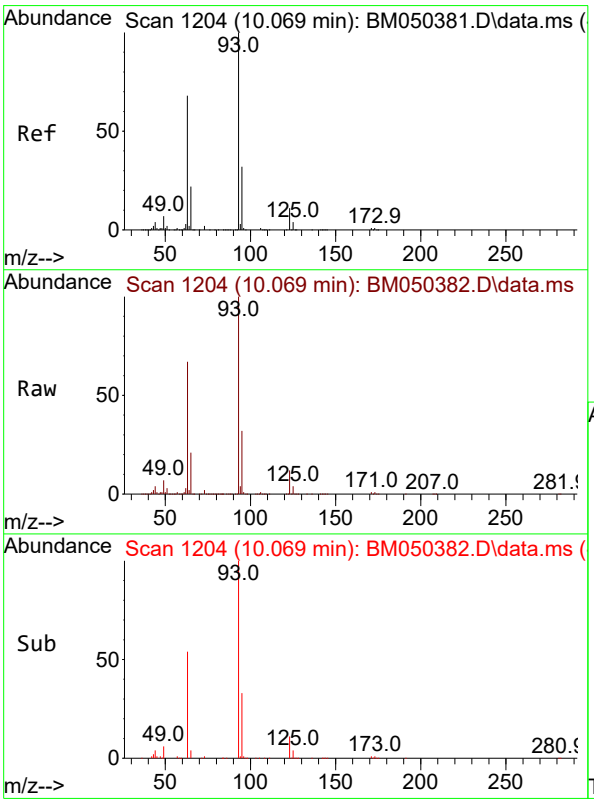
Ion	Ratio	Lower	Upper
122	100		
107	113.0	93.0	139.6
121	57.2	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

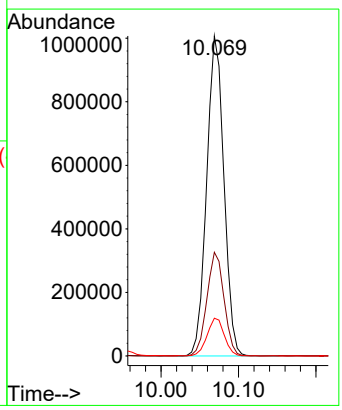
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

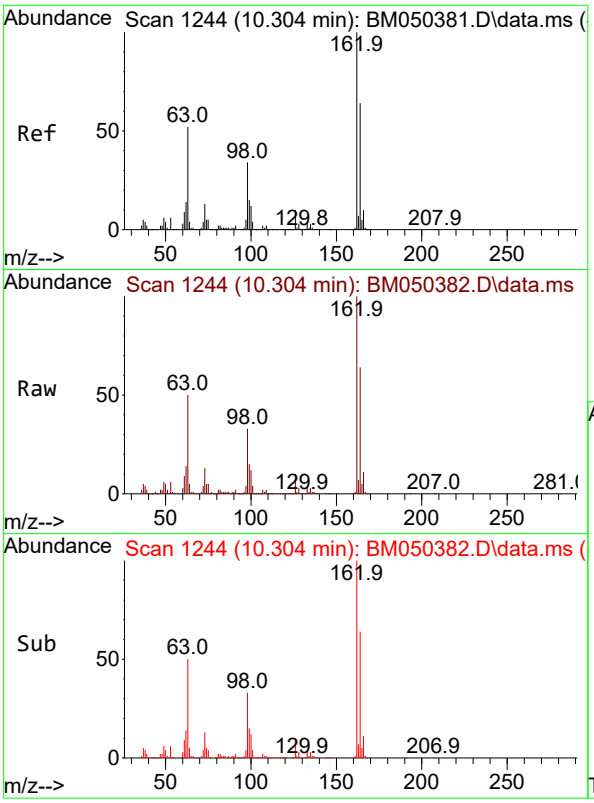


#28
bis(2-Chloroethoxy)methane
Concen: 53.910 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 93 Resp: 1555003

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.6
123	11.8	9.1	13.7

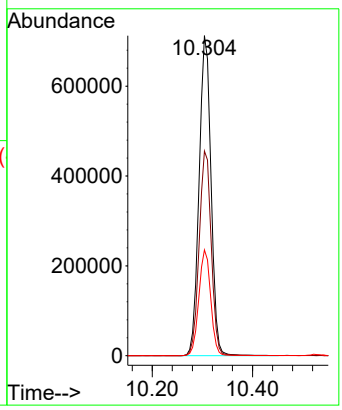




#29
2,4-Dichlorophenol
Concen: 55.130 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:162 Resp: 117585

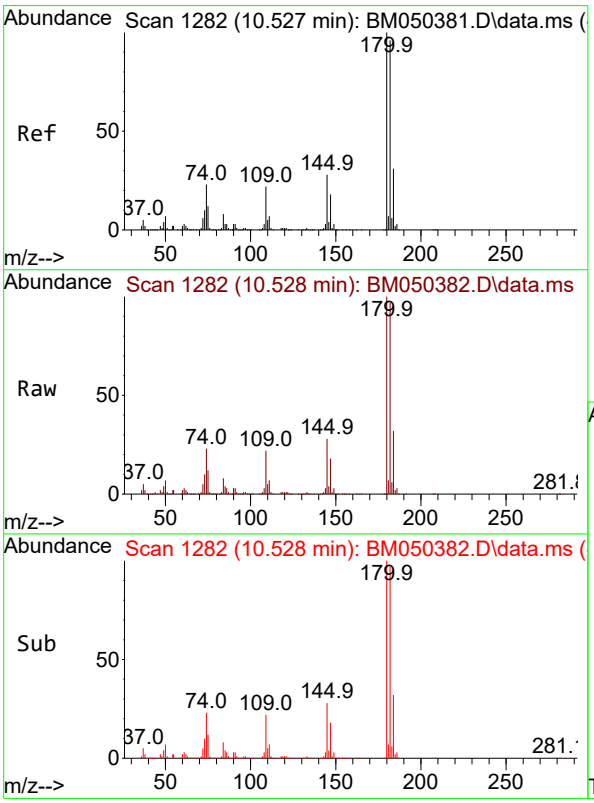
Ion	Ratio	Lower	Upper
162	100		
164	64.0	43.7	83.7
98	33.0	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

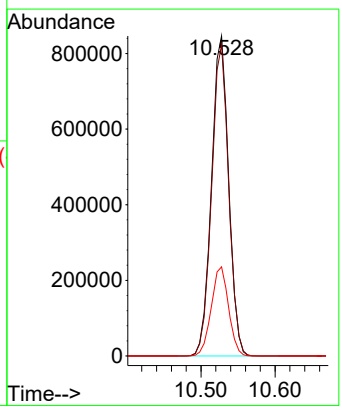
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

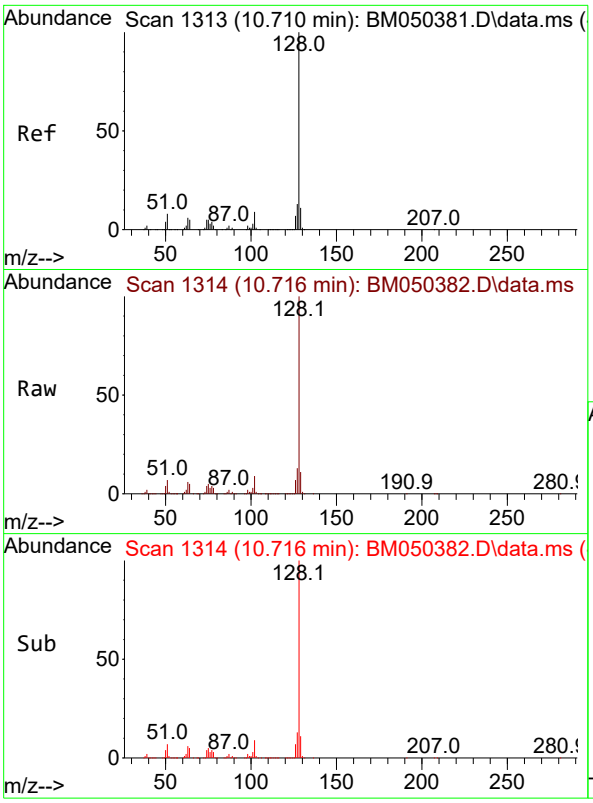


#30
1,2,4-Trichlorobenzene
Concen: 53.267 ng
RT: 10.528 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:180 Resp: 1359109

Ion	Ratio	Lower	Upper
180	100		
182	97.3	76.8	115.2
145	27.9	22.6	33.8

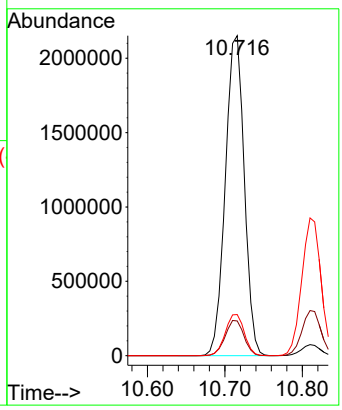




#31
Naphthalene
Concen: 52.691 ng
RT: 10.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:128 Resp: 366284

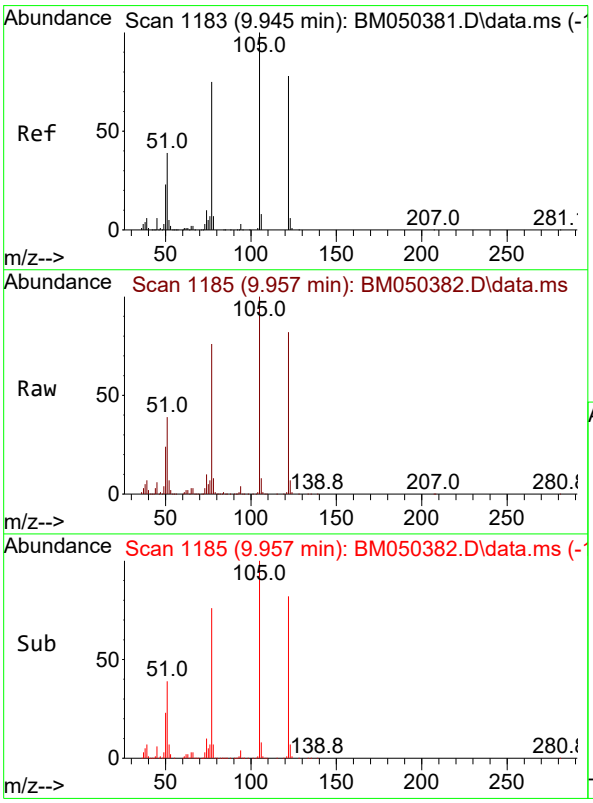
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.8	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

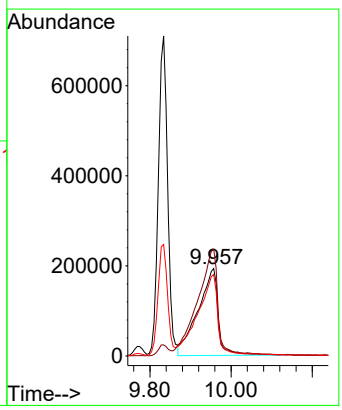
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

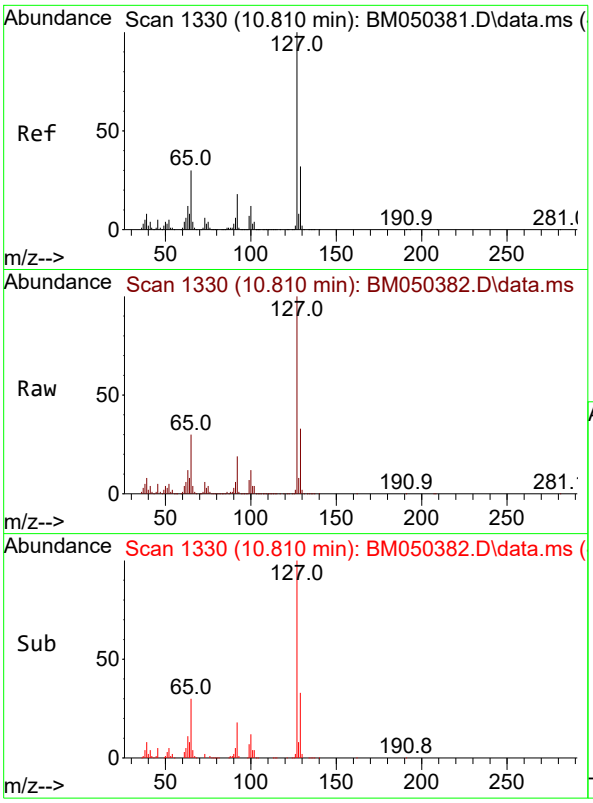


#32
Benzoic acid
Concen: 51.765 ng
RT: 9.957 min Scan# 1185
Delta R.T. 0.012 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:122 Resp: 666467

Ion	Ratio	Lower	Upper
122	100		
105	122.1	104.0	144.0
77	93.3	73.8	113.8

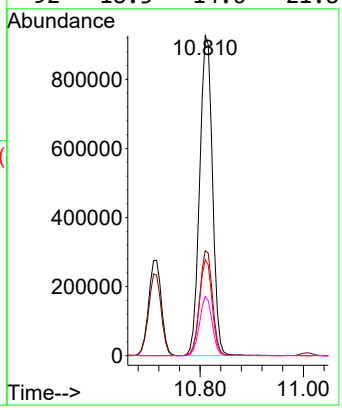




#33
4-Chloroaniline
Concen: 54.189 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:127 Resp: 159252

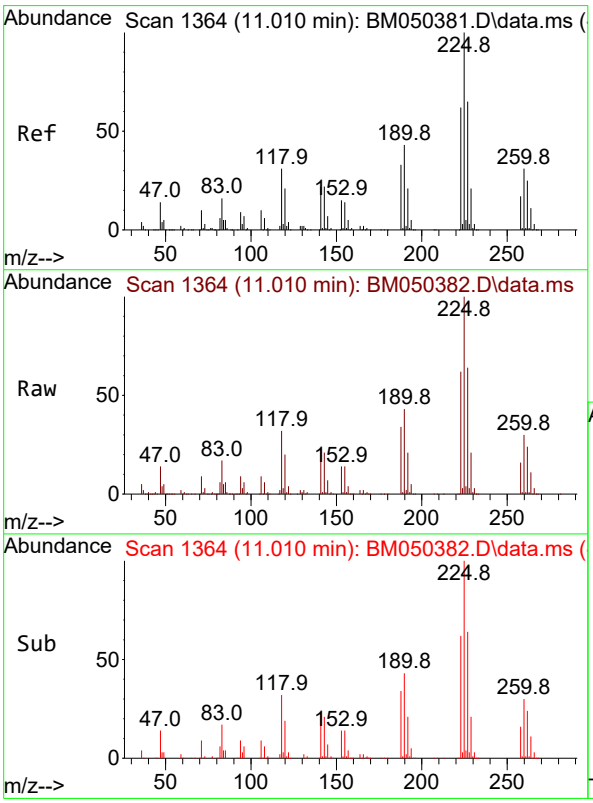
Ion	Ratio	Lower	Upper
127	100		
129	32.8	25.5	38.3
65	30.0	23.9	35.9
92	18.5	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

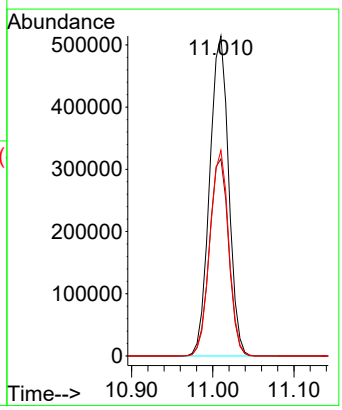
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

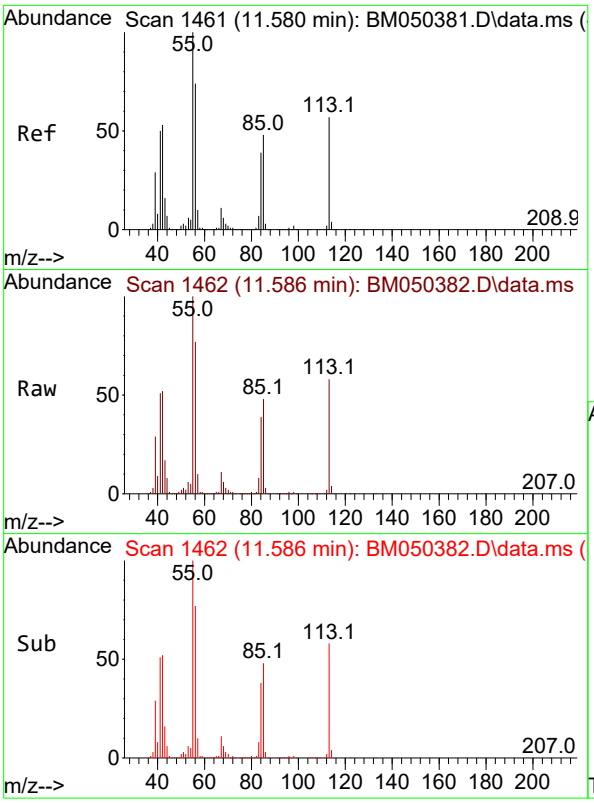


#34
Hexachlorobutadiene
Concen: 53.639 ng
RT: 11.010 min Scan# 1364
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:225 Resp: 835314

Ion	Ratio	Lower	Upper
225	100		
223	61.6	49.7	74.5
227	64.2	52.1	78.1

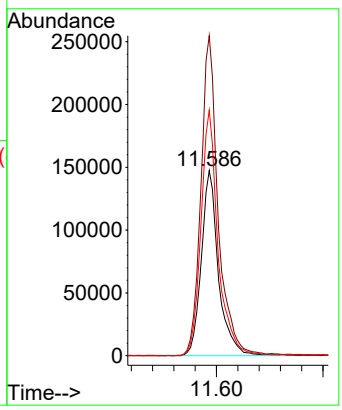




#35
Caprolactam
Concen: 56.364 ng
RT: 11.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:113 Resp: 32817

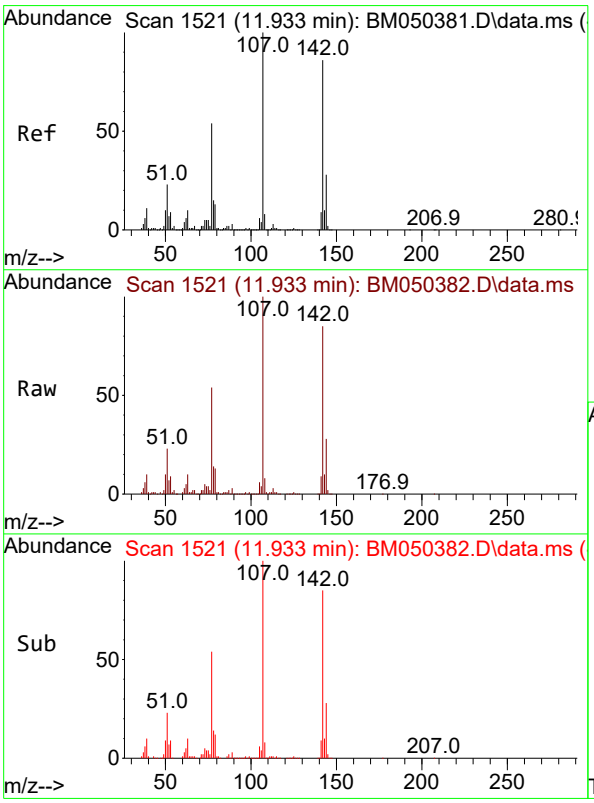
Ion	Ratio	Lower	Upper
113	100		
55	172.8	157.2	197.2
56	132.6	111.7	151.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

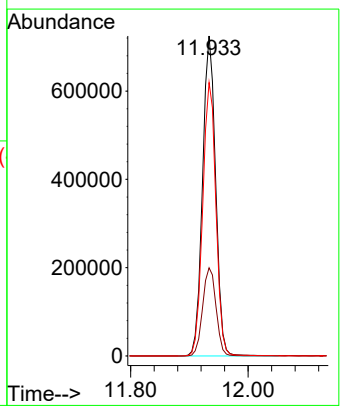
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

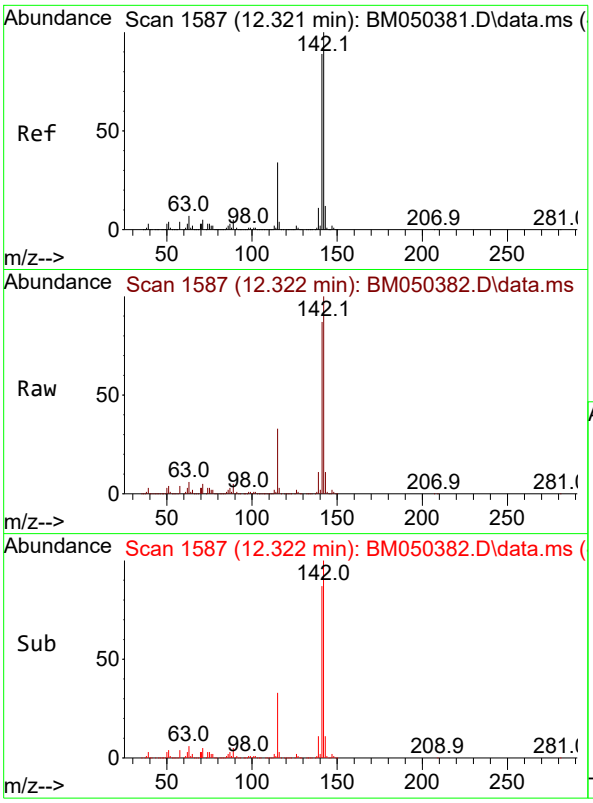


#36
4-Chloro-3-methylphenol
Concen: 55.959 ng
RT: 11.933 min Scan# 1521
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:107 Resp: 1114543

Ion	Ratio	Lower	Upper
107	100		
144	27.6	22.2	33.4
142	85.4	68.7	103.1

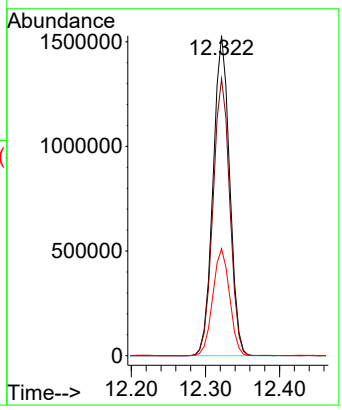




#37
2-Methylnaphthalene
Concen: 53.990 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:142 Resp: 236976

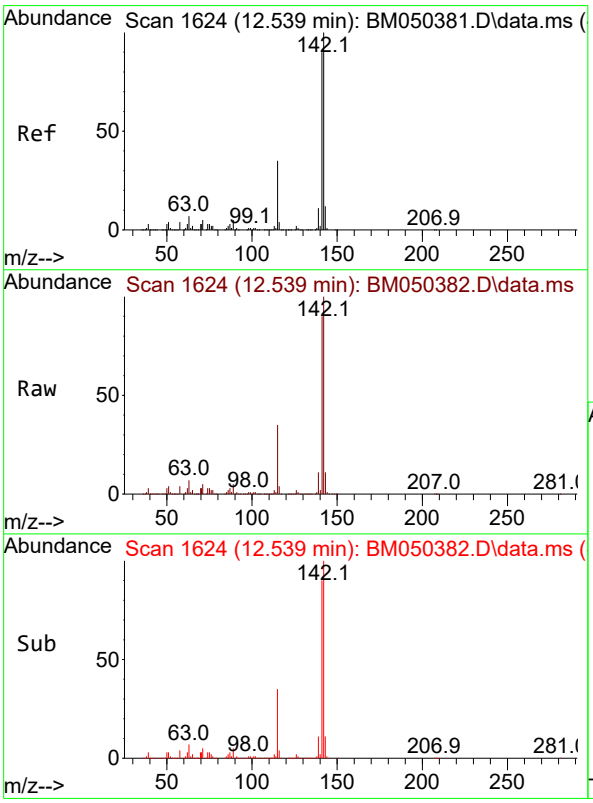
Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.8	106.2
115	33.5	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

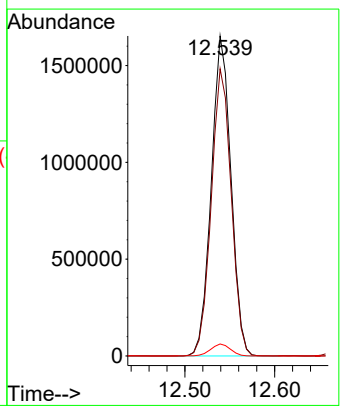
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

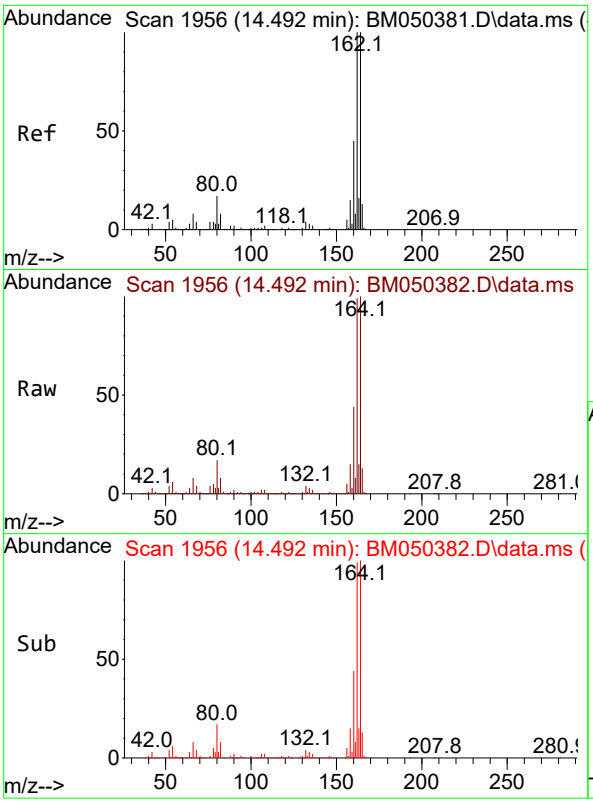


#38
1-Methylnaphthalene
Concen: 54.226 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:142 Resp: 2518911

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.9	107.9
116	3.8	3.0	4.6

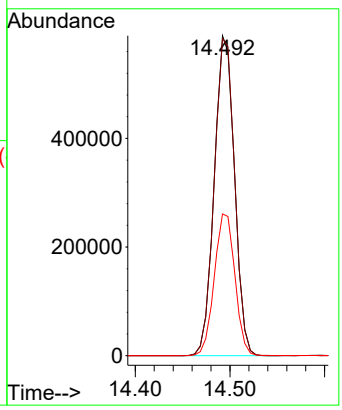




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:164 Resp: 87407

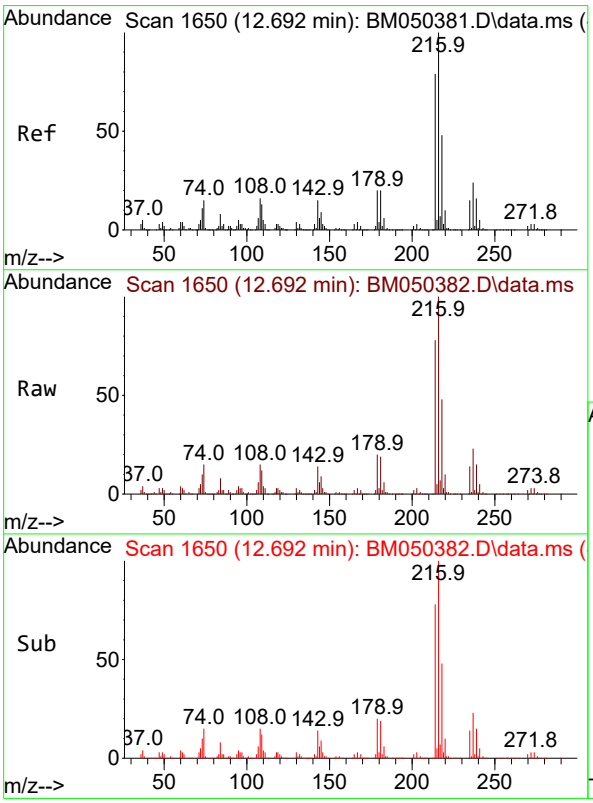
Ion	Ratio	Lower	Upper
164	100		
162	99.1	79.9	119.9
160	44.3	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

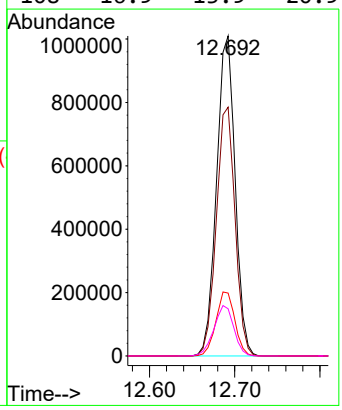
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

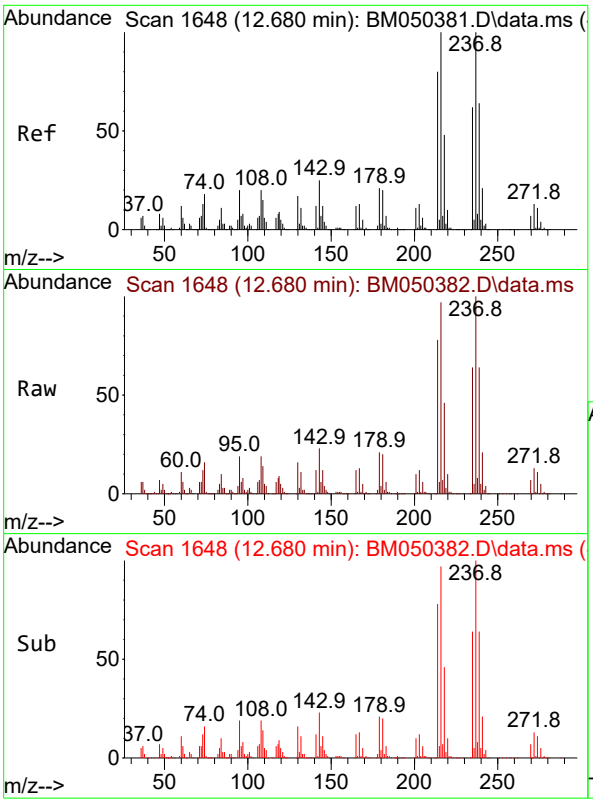


#40
1,2,4,5-Tetrachlorobenzene
Concen: 55.004 ng
RT: 12.692 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:216 Resp: 1528897

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.3	94.9
179	20.4	16.4	24.6
108	16.9	13.9	20.9

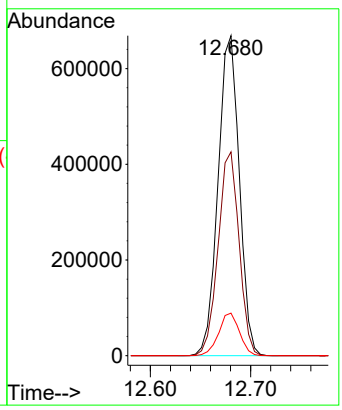




#41
Hexachlorocyclopentadiene
Concen: 55.306 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:237 Resp: 98267

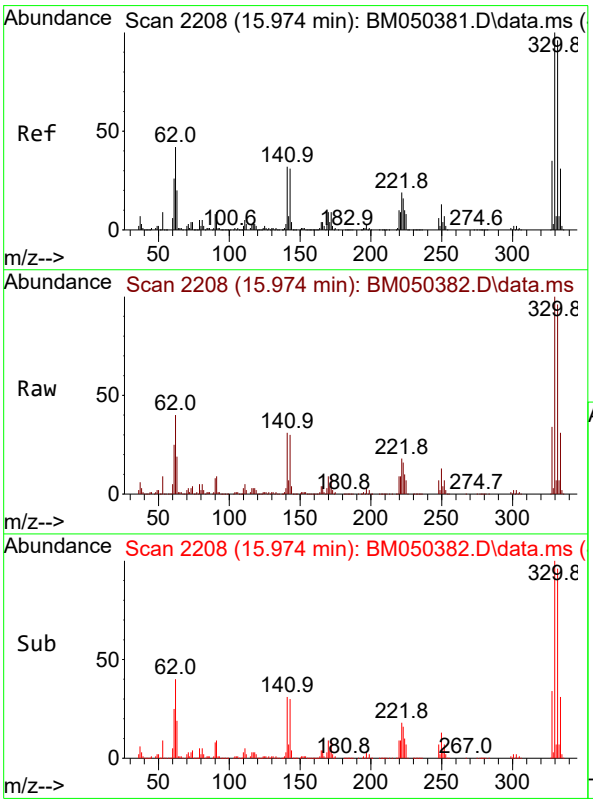
Ion	Ratio	Lower	Upper
237	100		
235	63.7	42.3	82.3
272	13.3	0.0	33.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

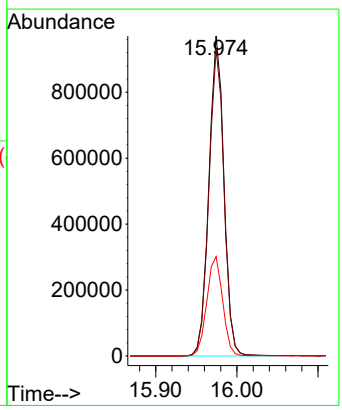
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

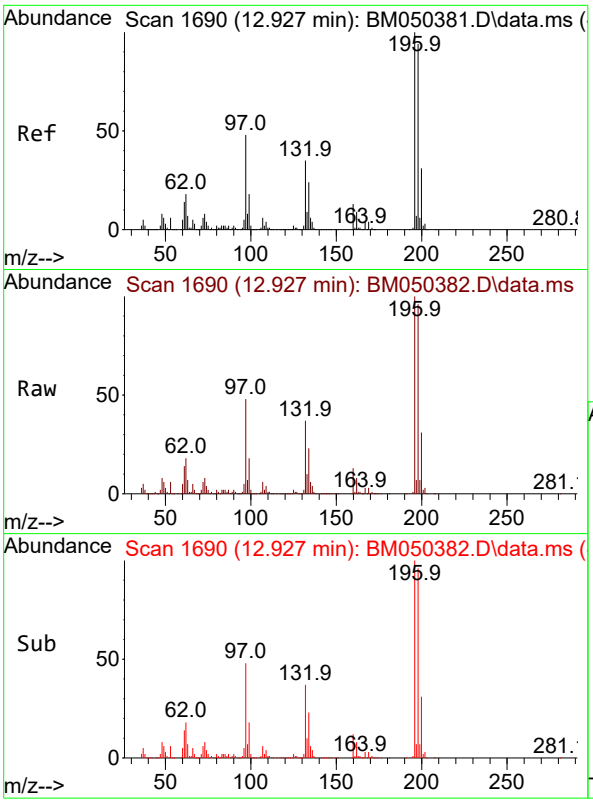


#42
2,4,6-Tribromophenol
Concen: 117.361 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:330 Resp: 1246384

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	32.9	27.4	41.0

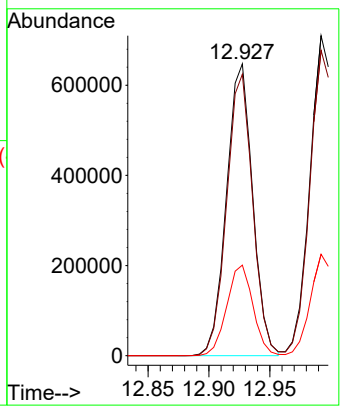




#43
2,4,6-Trichlorophenol
Concen: 56.583 ng
RT: 12.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:196 Resp: 96812

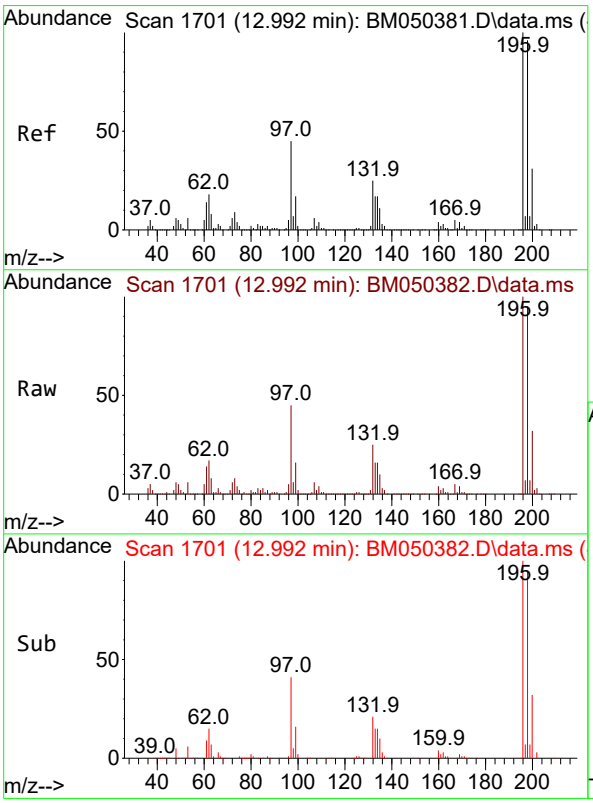
Ion	Ratio	Lower	Upper
196	100		
198	96.4	75.1	112.7
200	31.0	24.6	37.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

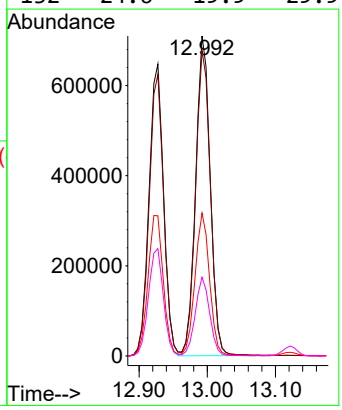
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

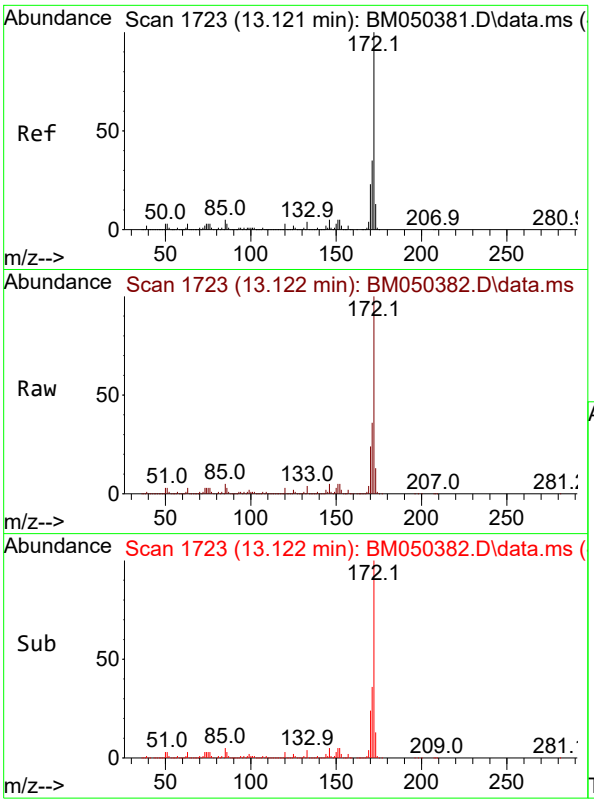


#44
2,4,5-Trichlorophenol
Concen: 56.628 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:196 Resp: 1058158

Ion	Ratio	Lower	Upper
196	100		
198	95.4	77.2	115.8
97	44.6	36.2	54.4
132	24.6	19.9	29.9

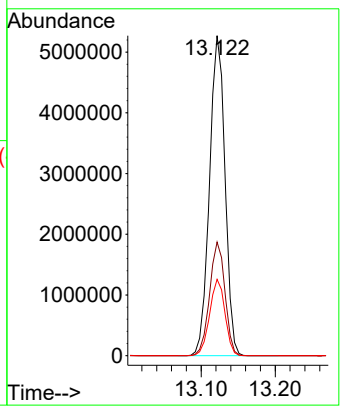




#45
2-Fluorobiphenyl
Concen: 108.218 ng
RT: 13.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:172 Resp: 765962

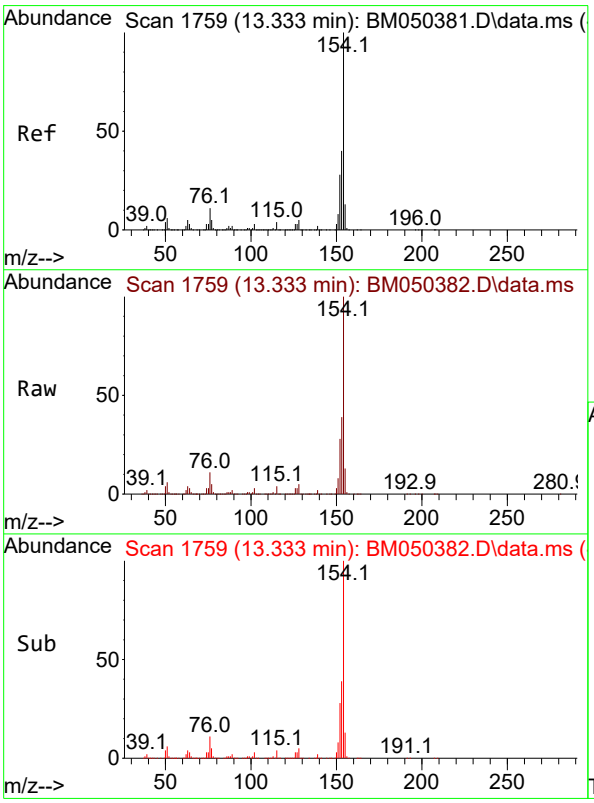
Ion	Ratio	Lower	Upper
172	100		
171	35.5	27.7	41.5
170	23.9	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

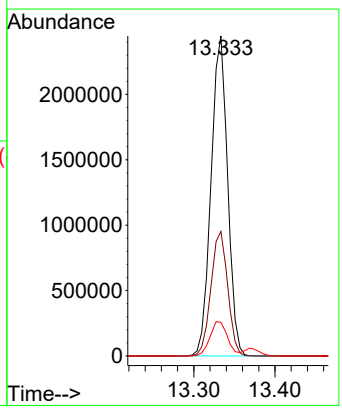
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

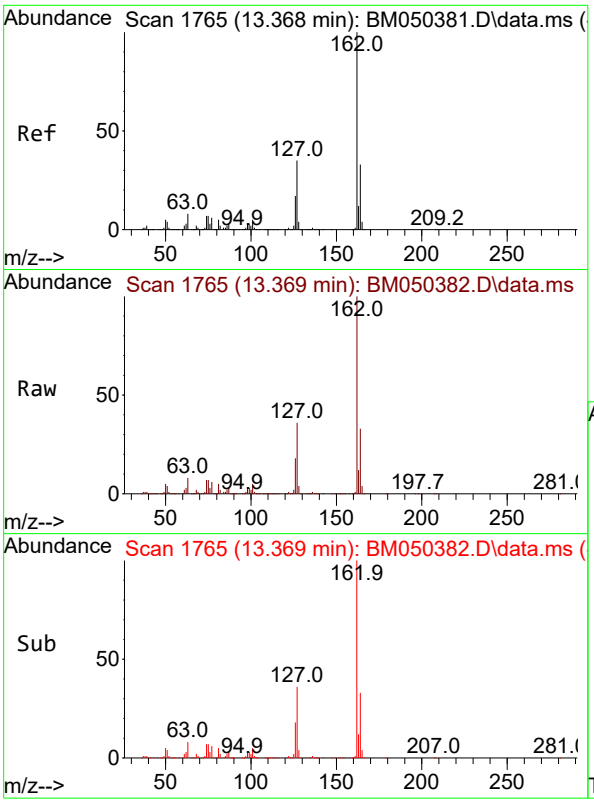


#46
1,1'-Biphenyl
Concen: 53.449 ng
RT: 13.333 min Scan# 1759
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:154 Resp: 3466190

Ion	Ratio	Lower	Upper
154	100		
153	38.9	19.7	59.7
76	10.5	0.0	30.9

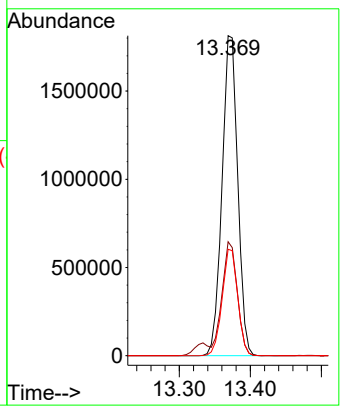




#47
2-Chloronaphthalene
Concen: 53.538 ng
RT: 13.369 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:162 Resp: 276827

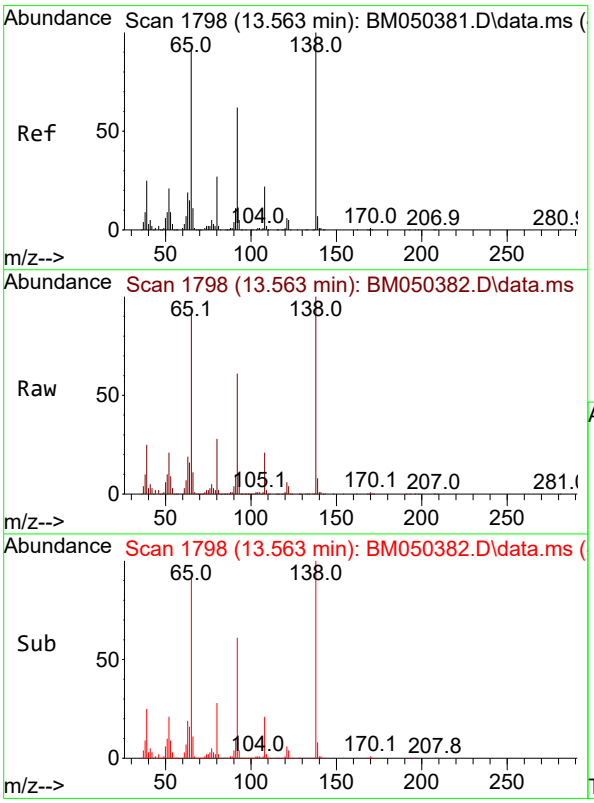
Ion	Ratio	Lower	Upper
162	100		
127	35.6	28.3	42.5
164	33.3	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

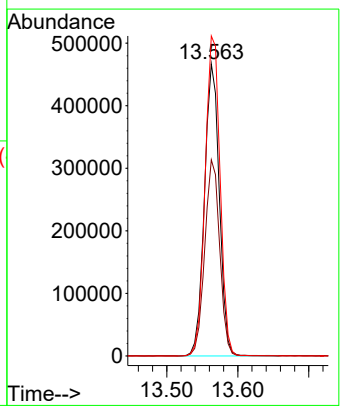
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

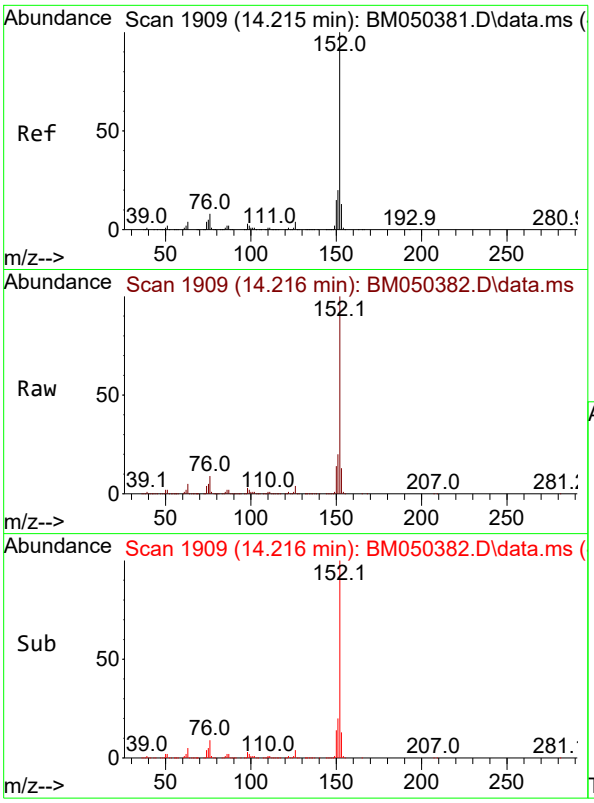


#48
2-Nitroaniline
Concen: 59.115 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion: 65 Resp: 682263

Ion	Ratio	Lower	Upper
65	100		
92	67.2	54.3	81.5
138	109.6	87.8	131.6

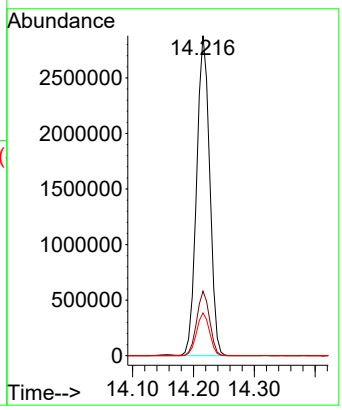




#49
Acenaphthylene
Concen: 54.707 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:152 Resp: 427491

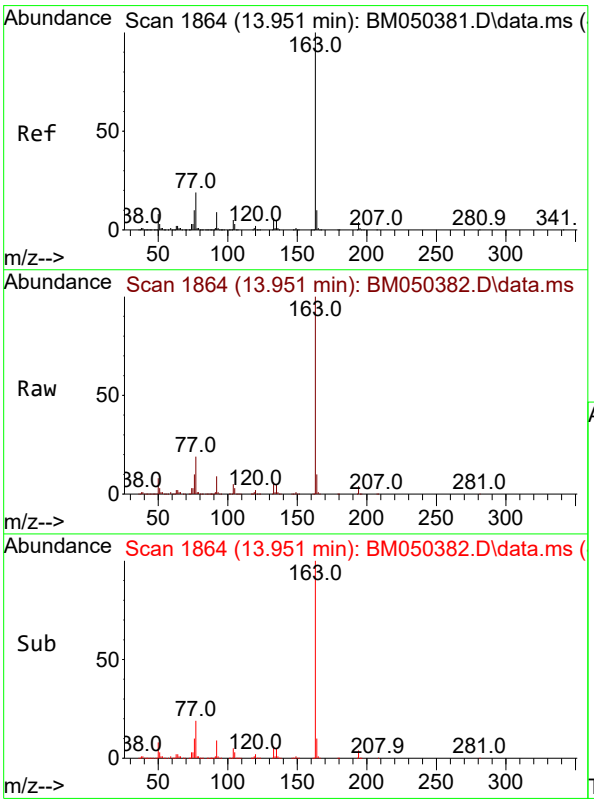
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.4	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

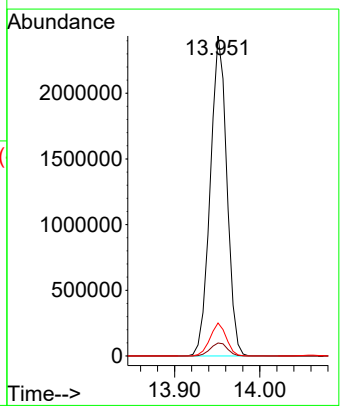
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

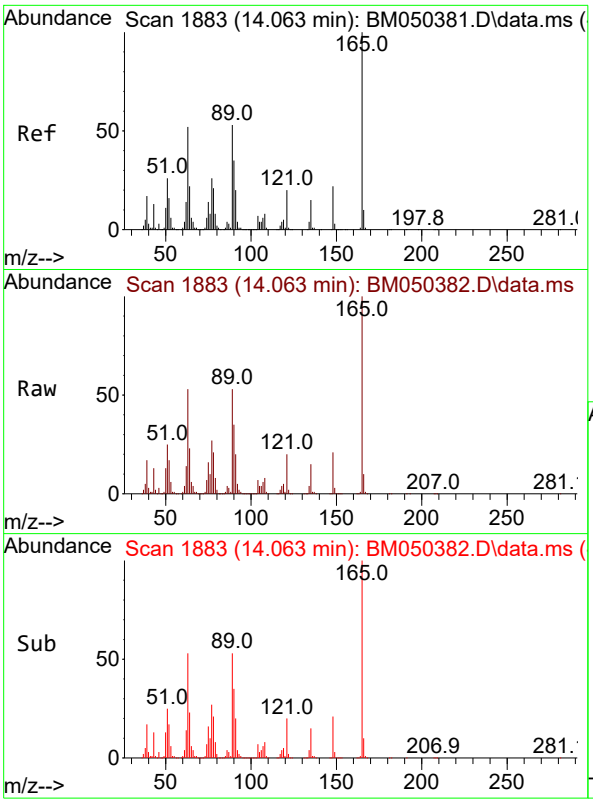


#50
Dimethylphthalate
Concen: 54.681 ng
RT: 13.951 min Scan# 1864
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:163 Resp: 3290612

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.2
164	10.3	8.2	12.2

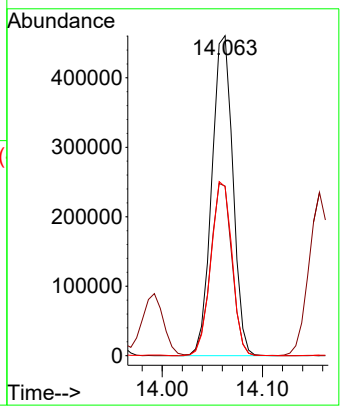




#51
2,6-Dinitrotoluene
Concen: 58.189 ng
RT: 14.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:165 Resp: 67233

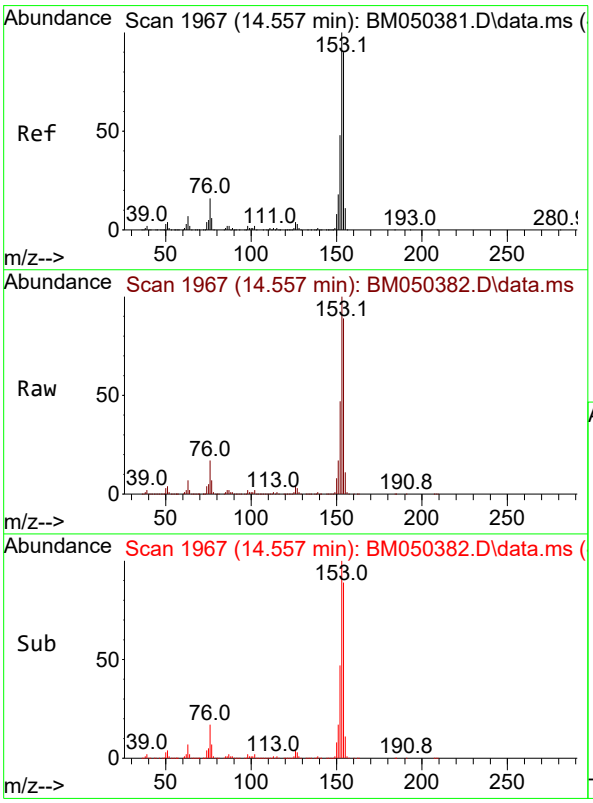
Ion	Ratio	Lower	Upper
165	100		
63	53.0	42.4	63.6
89	52.8	42.2	63.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

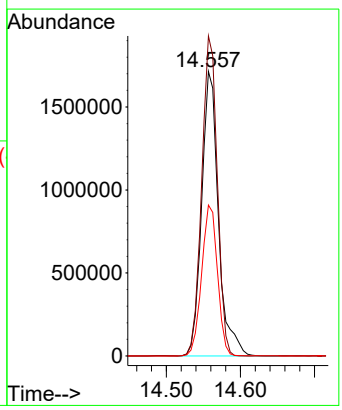
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

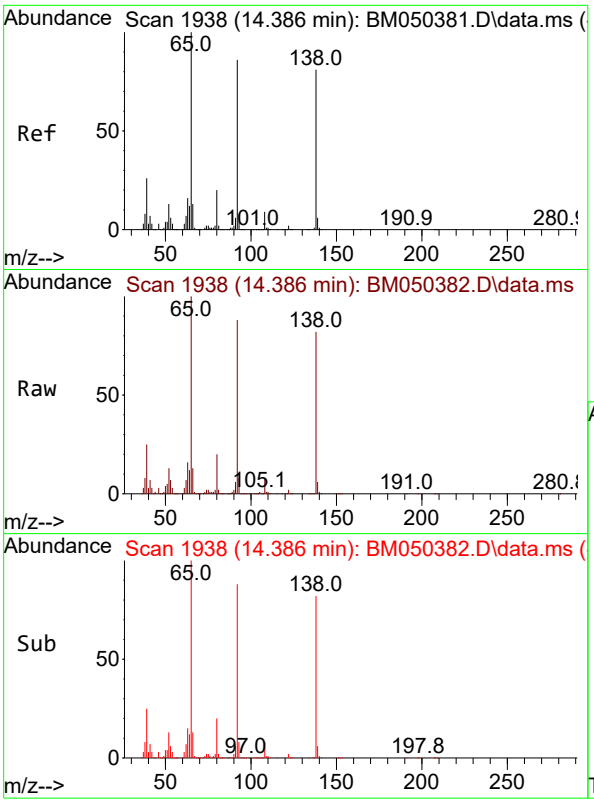


#52
Acenaphthene
Concen: 54.128 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:154 Resp: 2689063

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.2	133.8
152	53.0	42.6	64.0

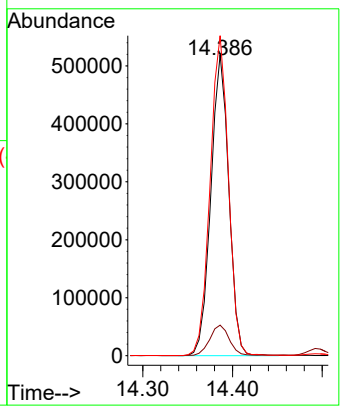




#53
3-Nitroaniline
Concen: 58.770 ng
RT: 14.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

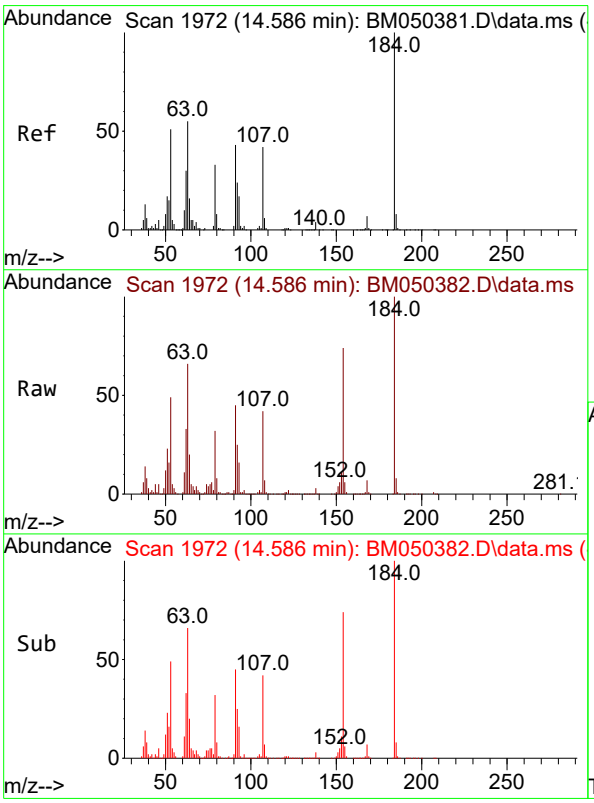
Tgt Ion:138 Resp: 72216

Ion	Ratio	Lower	Upper
138	100		
108	10.2	8.8	13.2
92	106.3	85.0	127.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

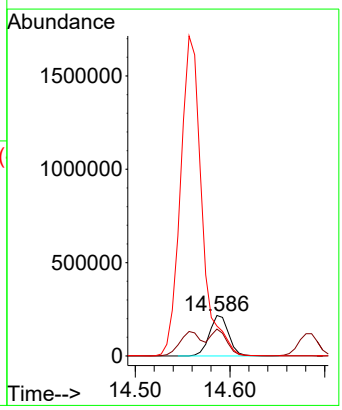
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

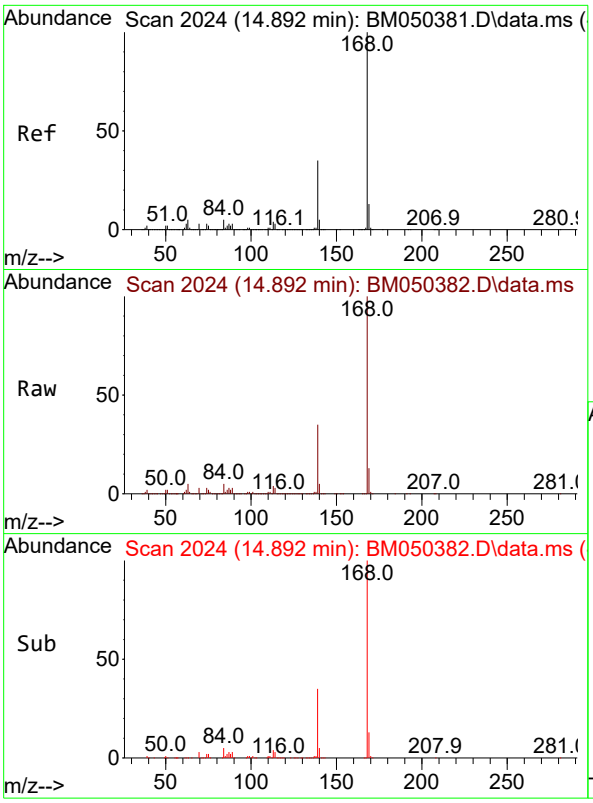


#54
2,4-Dinitrophenol
Concen: 50.427 ng
RT: 14.586 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:184 Resp: 305096

Ion	Ratio	Lower	Upper
184	100		
63	66.4	53.4	80.0
154	74.1	61.6	92.4

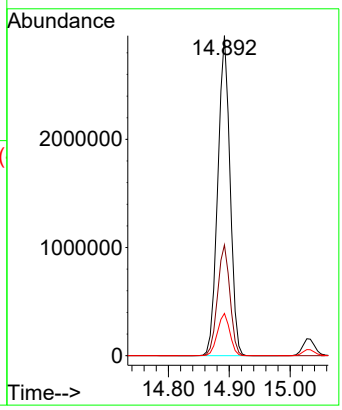




#55
Dibenzofuran
Concen: 53.680 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:168 Resp: 410902

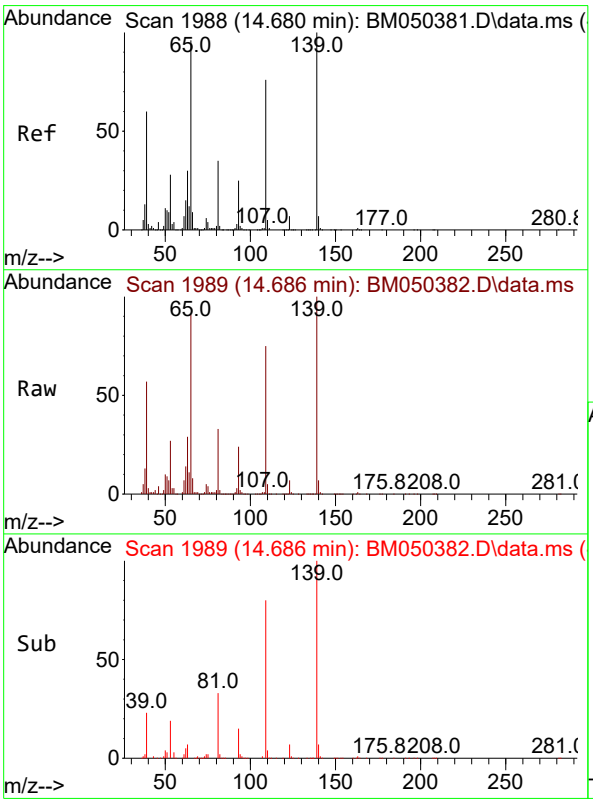
Ion	Ratio	Lower	Upper
168	100		
139	34.6	27.7	41.5
169	13.2	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

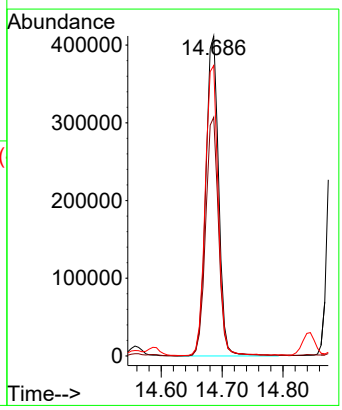
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

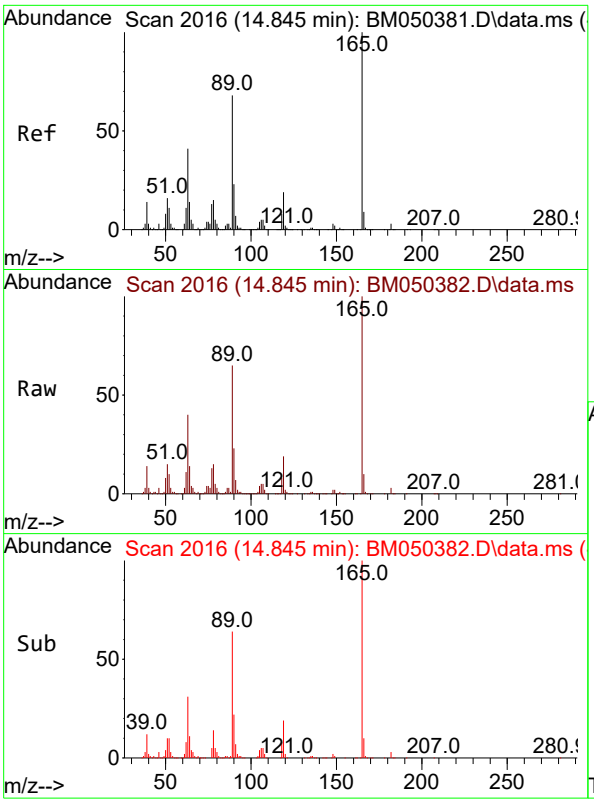


#56
4-Nitrophenol
Concen: 57.060 ng
RT: 14.686 min Scan# 1989
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:139 Resp: 602964

Ion	Ratio	Lower	Upper
139	100		
109	74.6	56.5	96.5
65	90.7	76.4	116.4

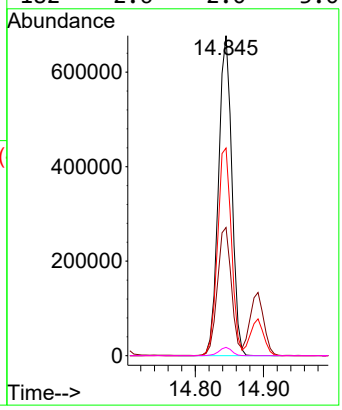




#57
2,4-Dinitrotoluene
Concen: 53.047 ng
RT: 14.845 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:165 Resp: 92280

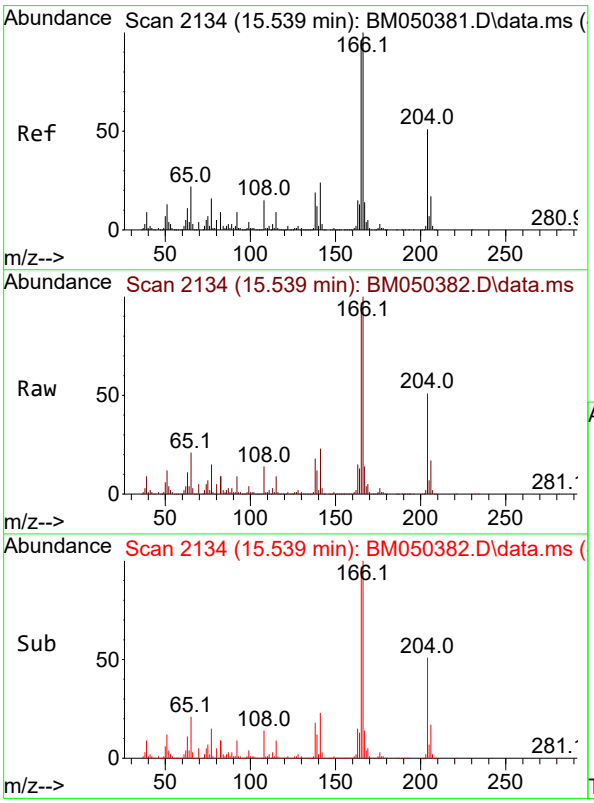
Ion	Ratio	Lower	Upper
165	100		
63	40.1	32.5	48.7
89	64.9	54.0	81.0
182	2.6	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

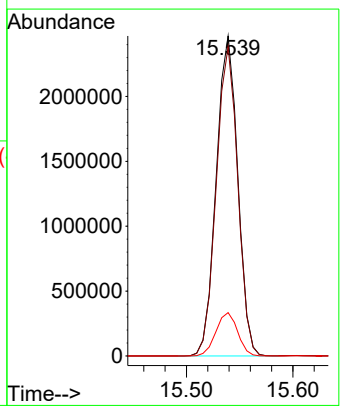
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

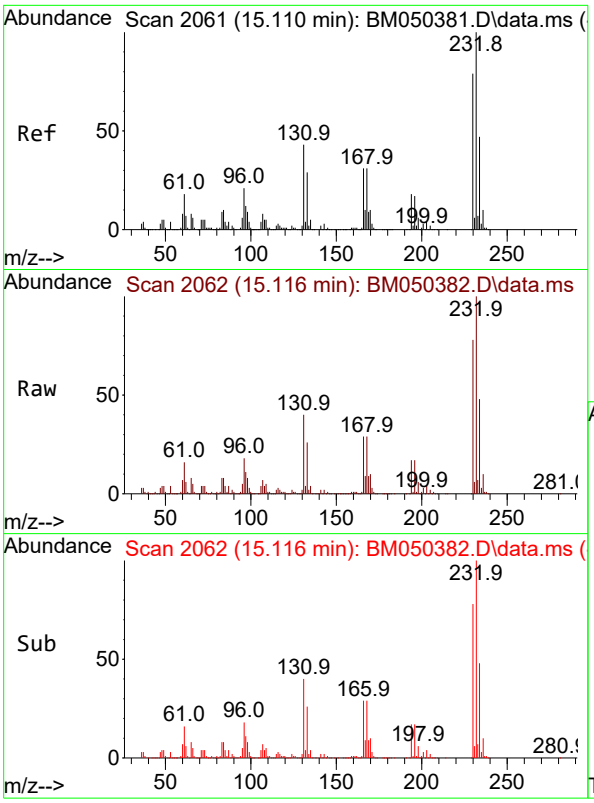


#58
Fluorene
Concen: 54.837 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:166 Resp: 3457484

Ion	Ratio	Lower	Upper
166	100		
165	96.6	77.0	115.6
167	13.5	10.9	16.3

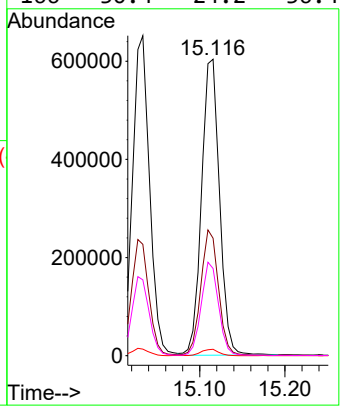




#59
2,3,4,6-Tetrachlorophenol
Concen: 56.275 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:232 Resp: 88519

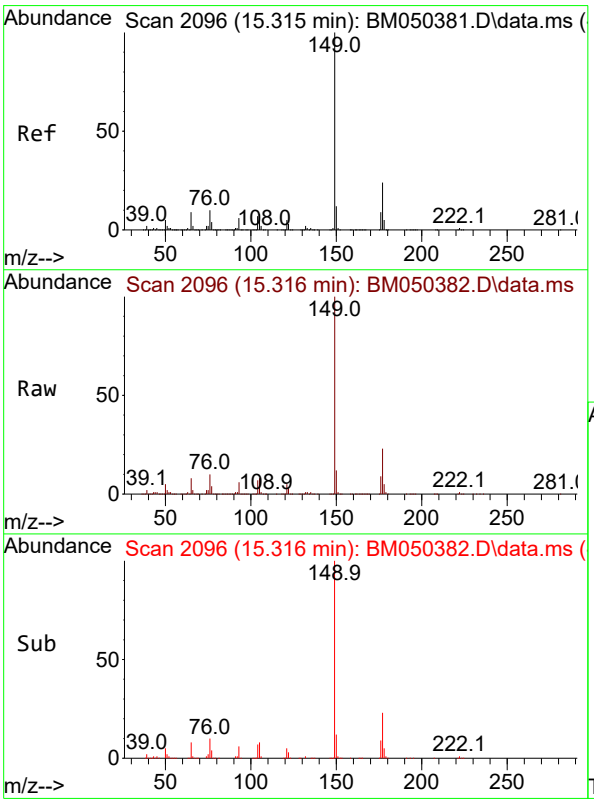
Ion	Ratio	Lower	Upper
232	100		
131	42.0	33.4	50.0
130	2.2	1.8	2.6
166	30.4	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

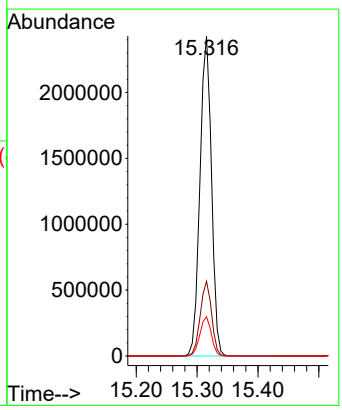
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

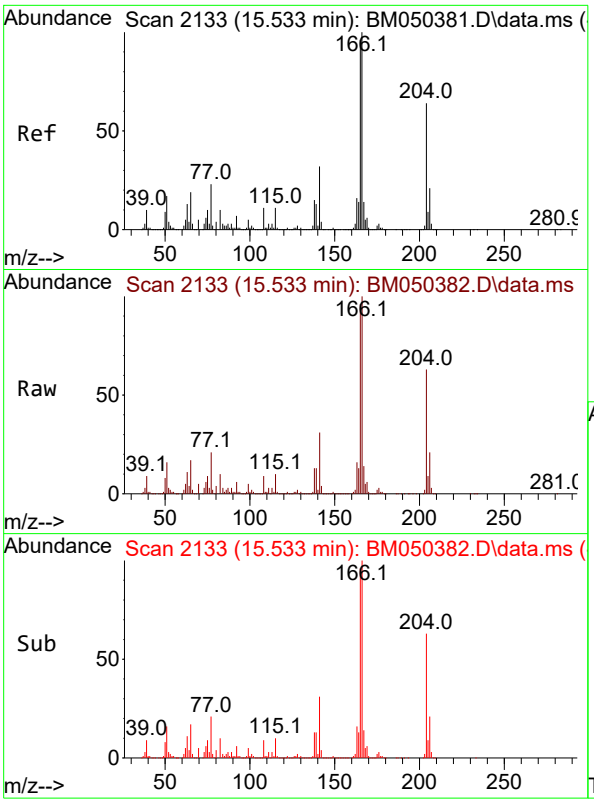


#60
Diethylphthalate
Concen: 55.265 ng
RT: 15.316 min Scan# 2096
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:149 Resp: 3176896

Ion	Ratio	Lower	Upper
149	100		
177	23.4	18.8	28.2
150	12.3	9.8	14.8

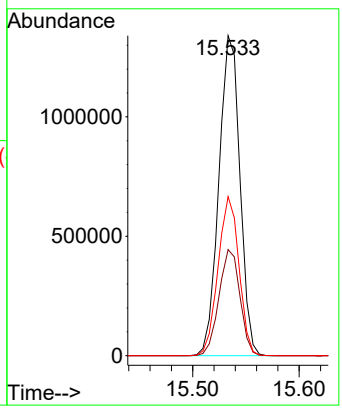




#61
4-Chlorophenyl-phenylether
Concen: 55.637 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:204 Resp: 183424

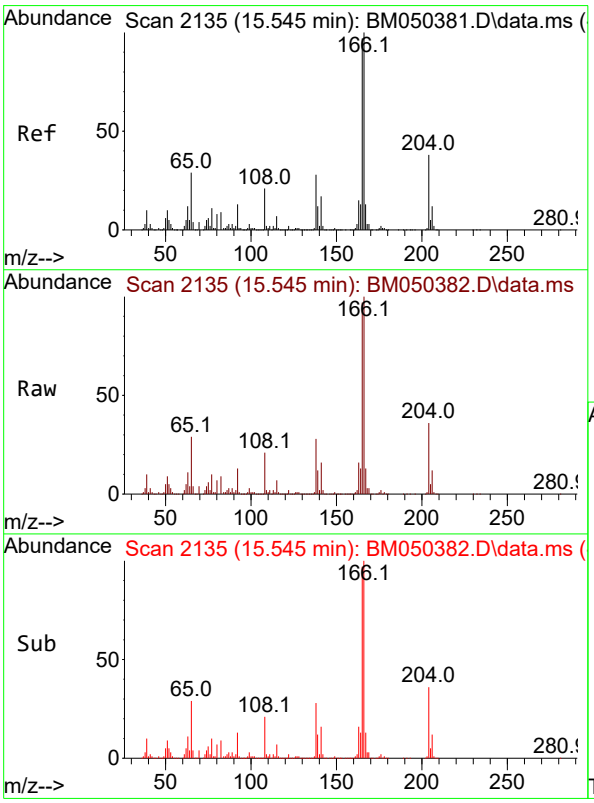
Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.6	39.8
141	49.7	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

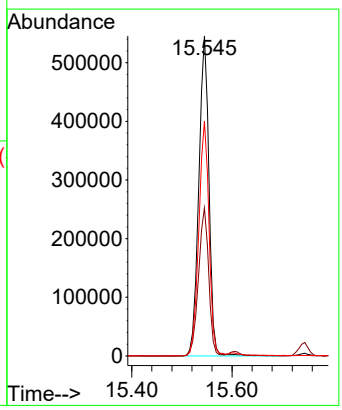
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

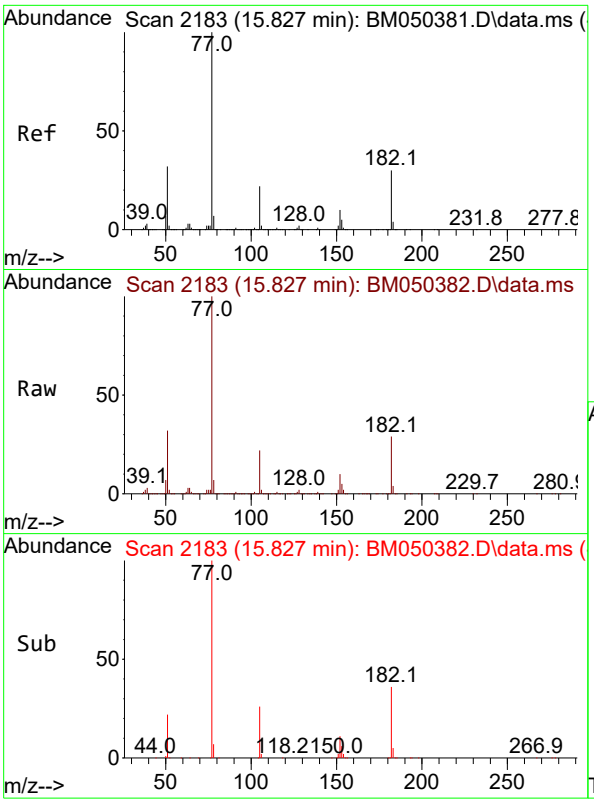


#62
4-Nitroaniline
Concen: 53.869 ng
RT: 15.545 min Scan# 2135
Delta R.T. -0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:138 Resp: 765716

Ion	Ratio	Lower	Upper
138	100		
92	46.2	24.5	64.5
108	73.4	52.5	92.5

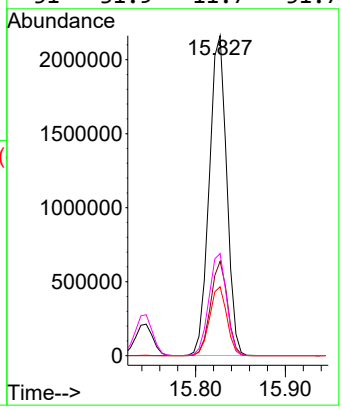




#63
Azobenzene
Concen: 55.274 ng
RT: 15.827 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

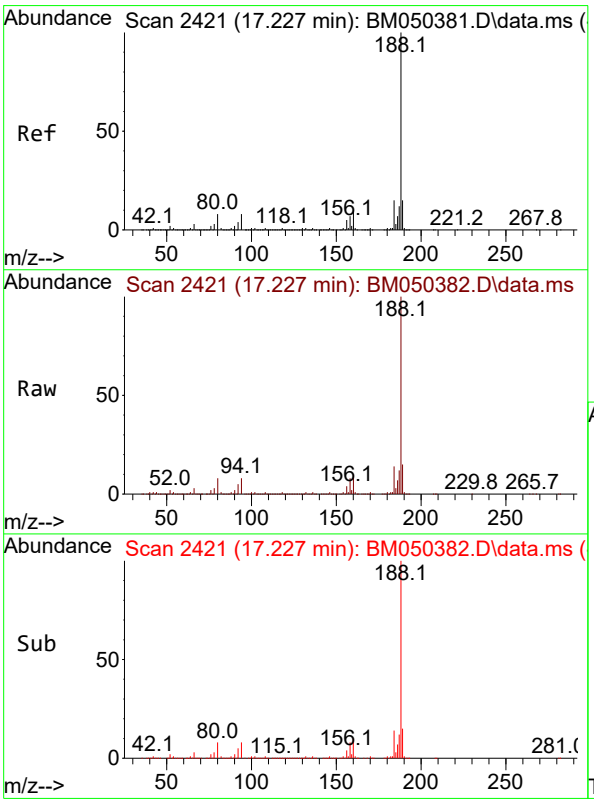
Tgt Ion: 77 Resp: 291764

Ion	Ratio	Lower	Upper
77	100		
182	29.5	10.0	50.0
105	21.6	2.0	42.0
51	31.9	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

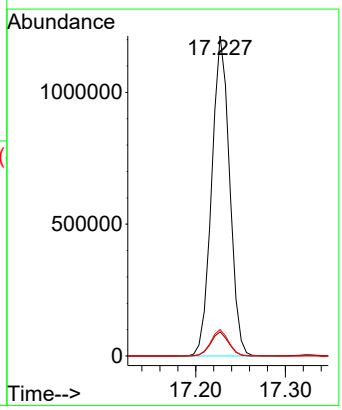
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

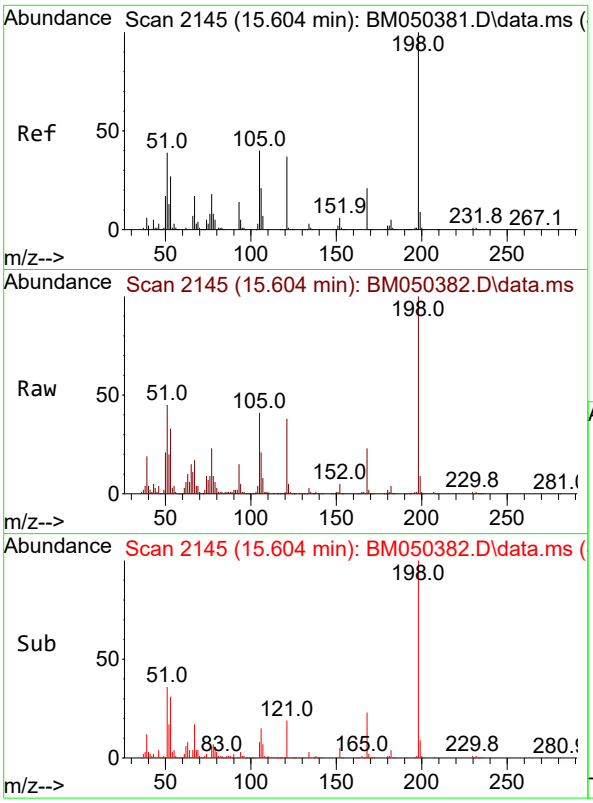


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:188 Resp: 1680679

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.0	9.0
80	8.3	6.5	9.7





#65
4,6-Dinitro-2-methylphenol
Concen: 50.395 ng
RT: 15.604 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

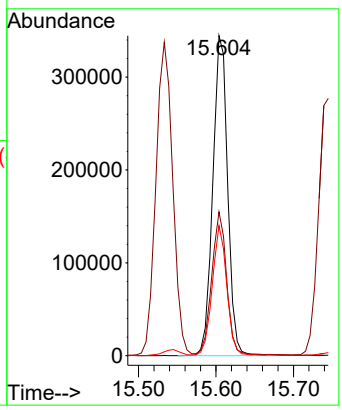
Tgt Ion:198 Resp: 45870

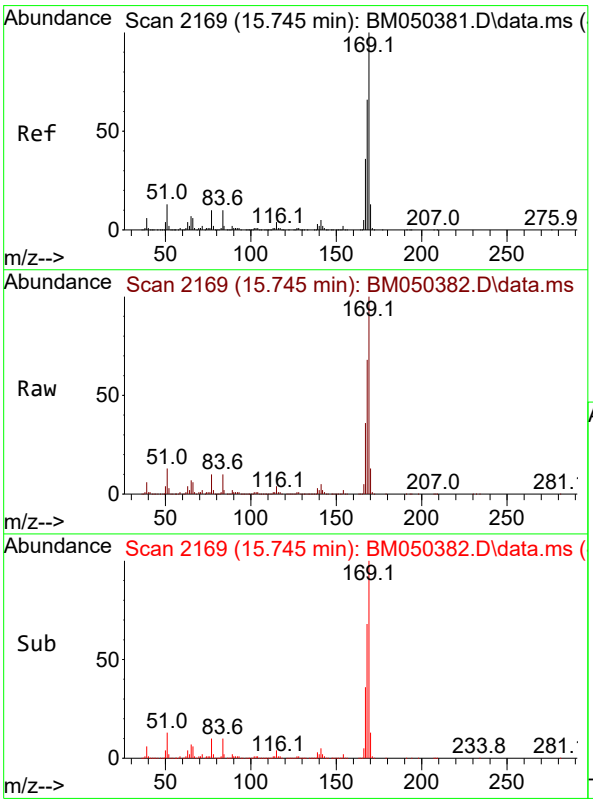
Ion	Ratio	Lower	Upper
198	100		
51	45.0	26.6	66.6
105	40.6	20.9	60.9

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

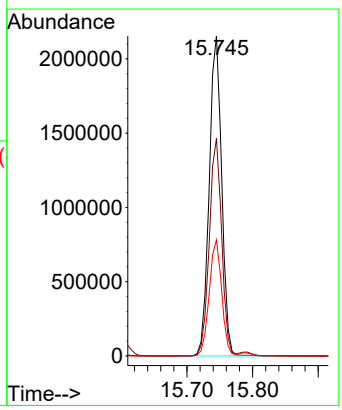


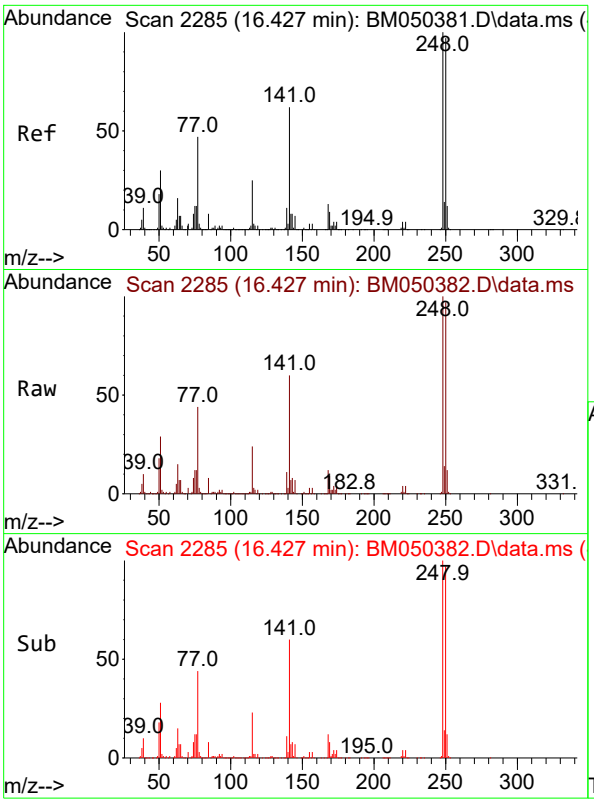


#66
n-Nitrosodiphenylamine
Concen: 54.137 ng
RT: 15.745 min Scan# 2169
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:169 Resp: 2847134

Ion	Ratio	Lower	Upper
169	100		
168	67.9	53.2	79.8
167	36.3	28.7	43.1

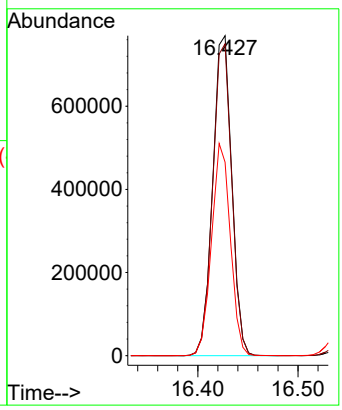




#67
4-Bromophenyl-phenylether
Concen: 54.881 ng
RT: 16.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:248 Resp: 101624

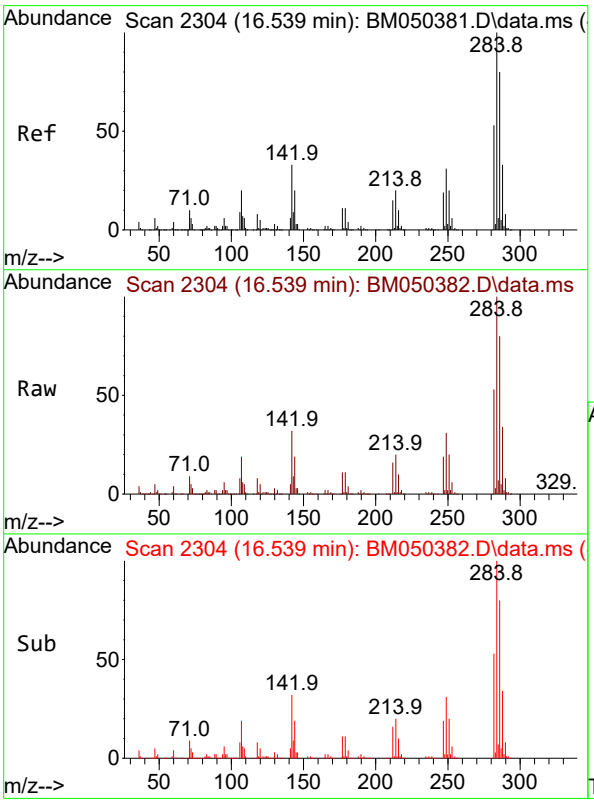
Ion	Ratio	Lower	Upper
248	100		
250	97.4	77.9	116.9
141	60.5	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

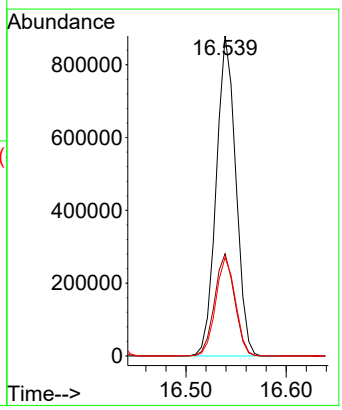
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

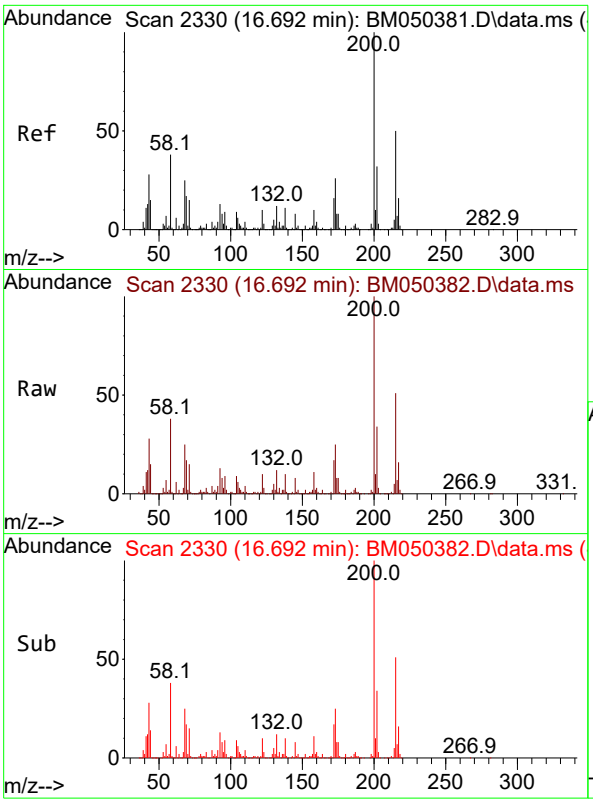


#68
Hexachlorobenzene
Concen: 54.420 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:284 Resp: 1190183

Ion	Ratio	Lower	Upper
284	100		
142	32.0	26.8	40.2
249	30.8	24.5	36.7

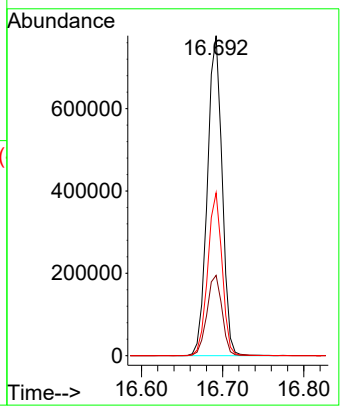




#69
Atrazine
Concen: 56.502 ng
RT: 16.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:200 Resp: 97574

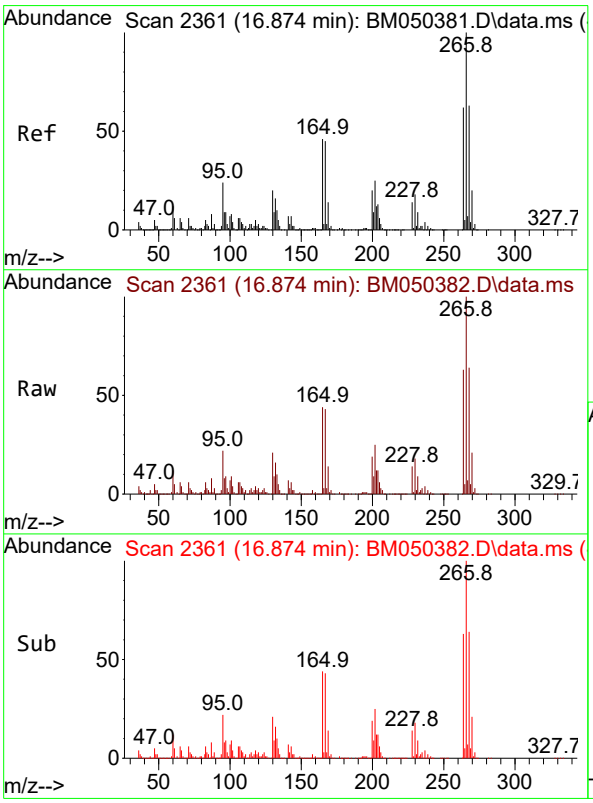
Ion	Ratio	Lower	Upper
200	100		
173	25.1	5.6	45.6
215	50.9	29.6	69.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

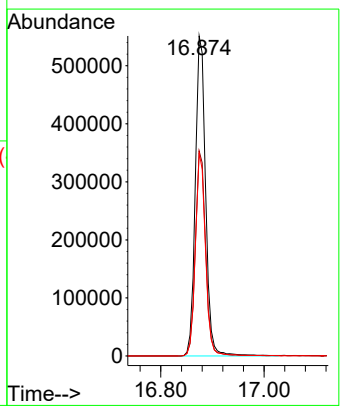
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

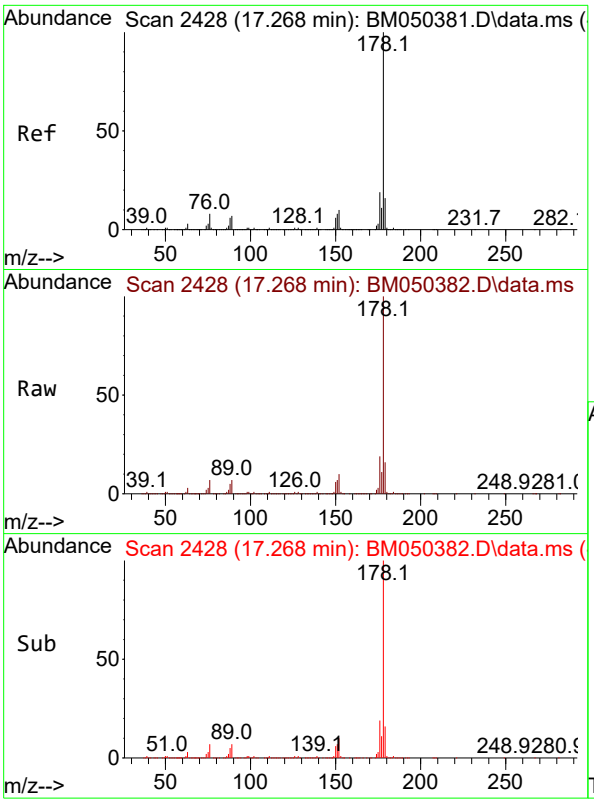


#70
Pentachlorophenol
Concen: 55.986 ng
RT: 16.874 min Scan# 2361
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:266 Resp: 762216

Ion	Ratio	Lower	Upper
266	100		
268	64.1	50.5	75.7
264	63.4	49.9	74.9

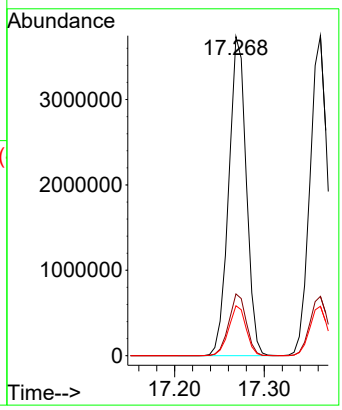




#71
Phenanthrene
Concen: 53.293 ng
RT: 17.268 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

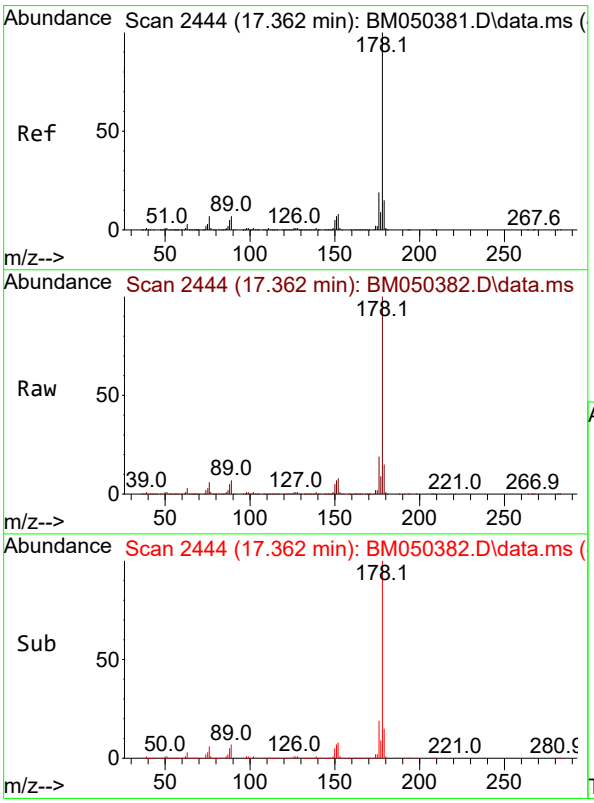
Tgt Ion:178 Resp: 506828

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.0
179	15.6	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

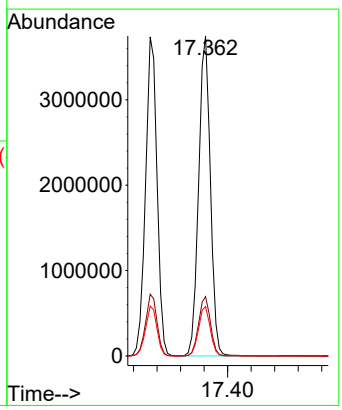
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

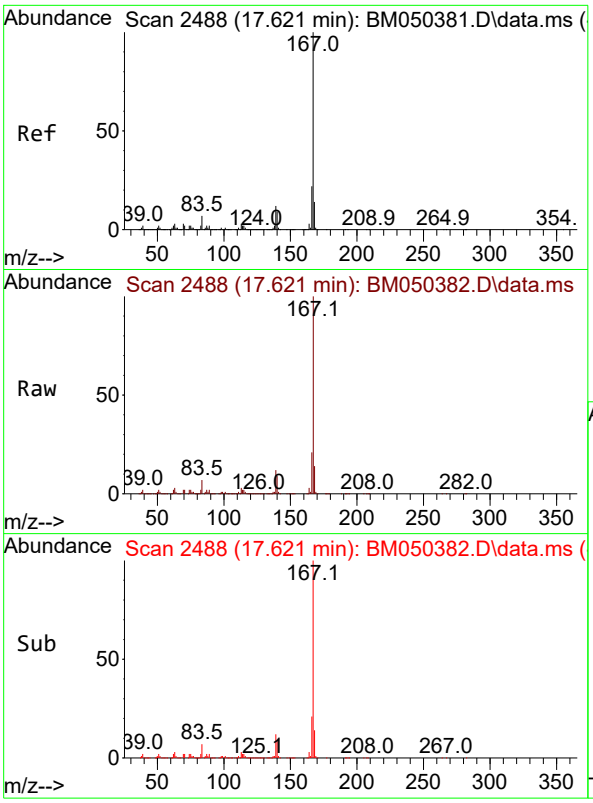


#72
Anthracene
Concen: 54.717 ng
RT: 17.362 min Scan# 2444
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:178 Resp: 5179830

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.5	12.2	18.4

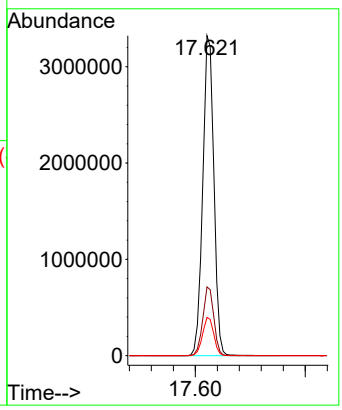




#73
Carbazole
Concen: 54.372 ng
RT: 17.621 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:167 Resp: 465723

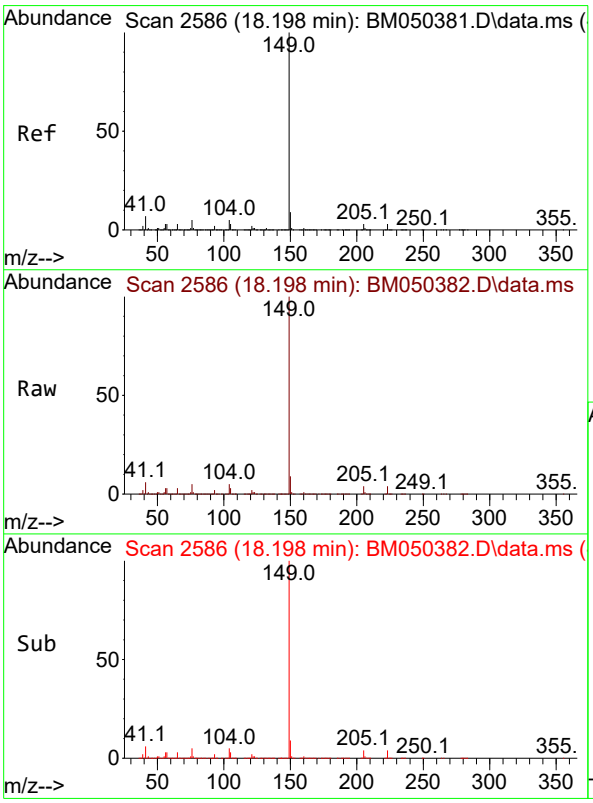
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	12.0	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

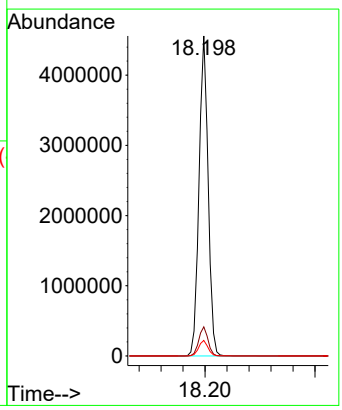
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

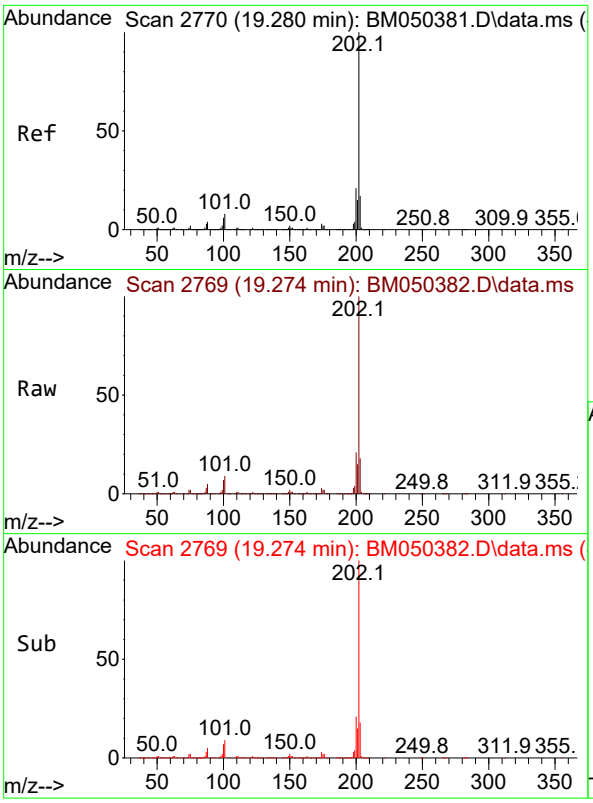


#74
Di-n-butylphthalate
Concen: 56.091 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:149 Resp: 5258750

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.8	3.9	5.9





#75
Fluoranthene
Concen: 55.500 ng
RT: 19.274 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

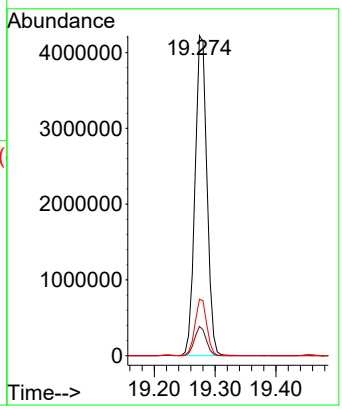
Tgt Ion:202 Resp: 573794

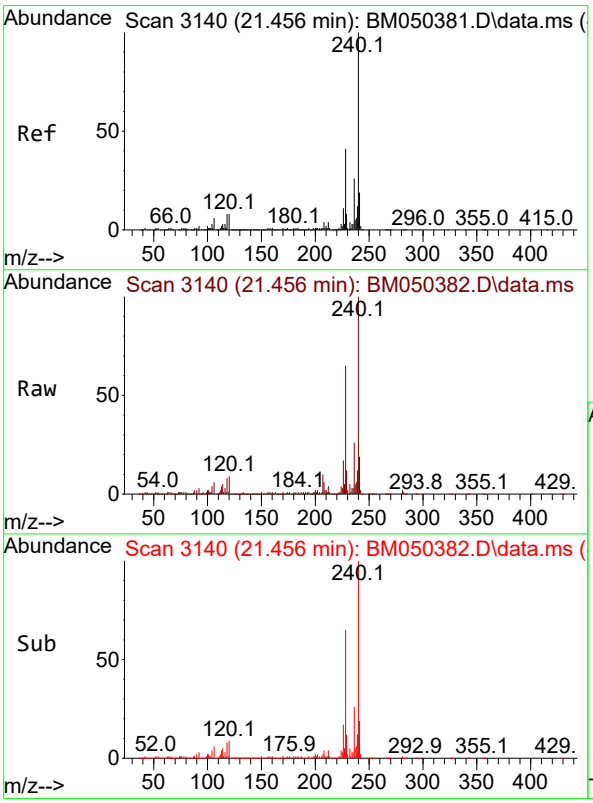
Ion	Ratio	Lower	Upper
202	100		
101	9.1	0.0	28.3
203	17.7	0.0	37.2

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

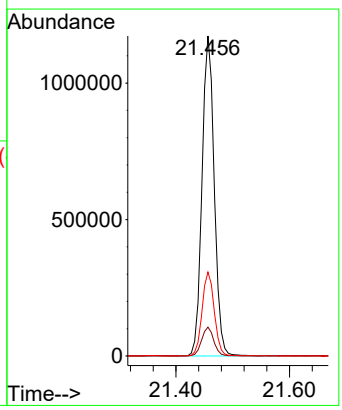


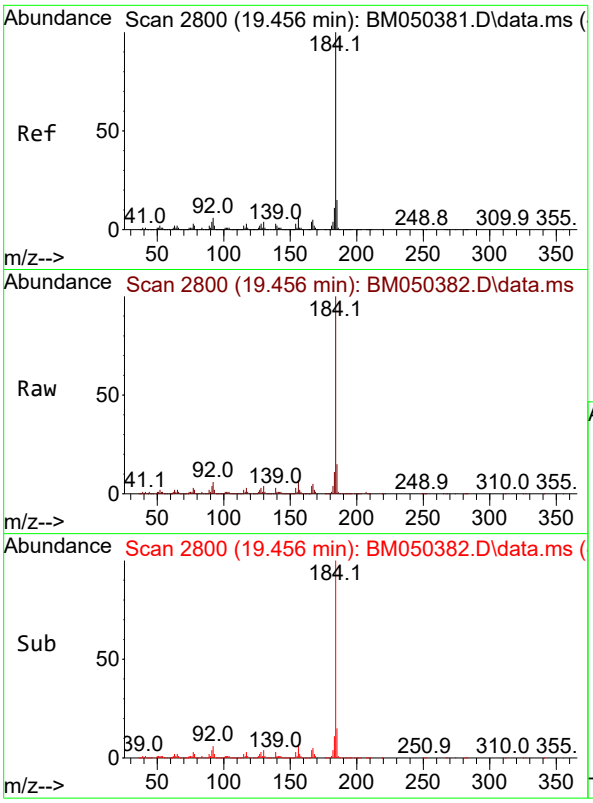


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3140
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:240 Resp: 1747476

Ion	Ratio	Lower	Upper
240	100		
120	9.0	6.7	10.1
236	26.2	20.7	31.1

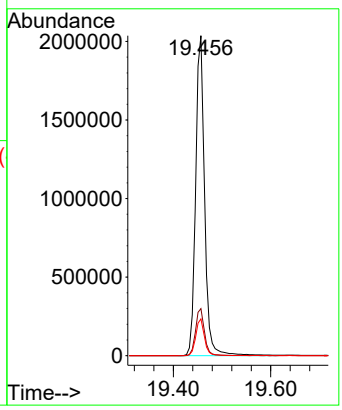




#77
Benzidine
Concen: 58.920 ng
RT: 19.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:184 Resp: 262617

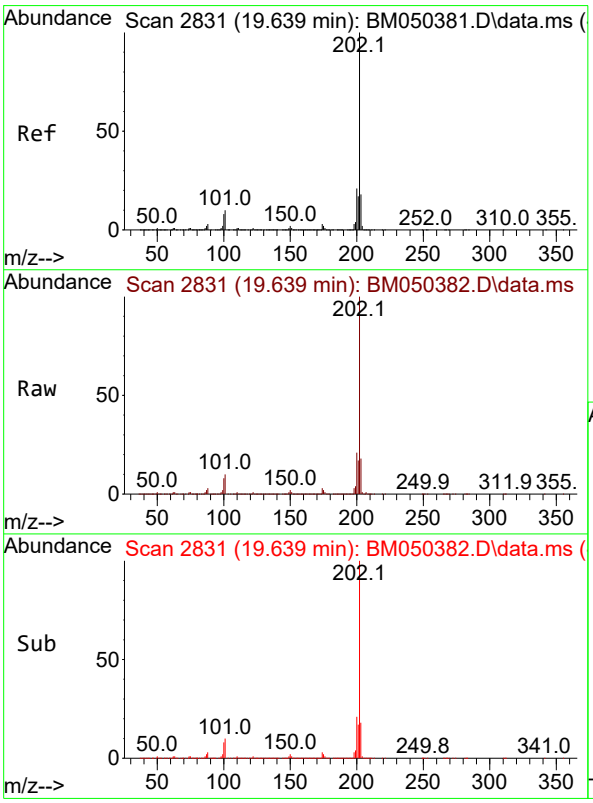
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.7	17.5
183	11.5	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

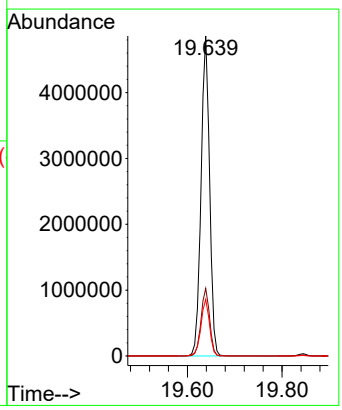
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

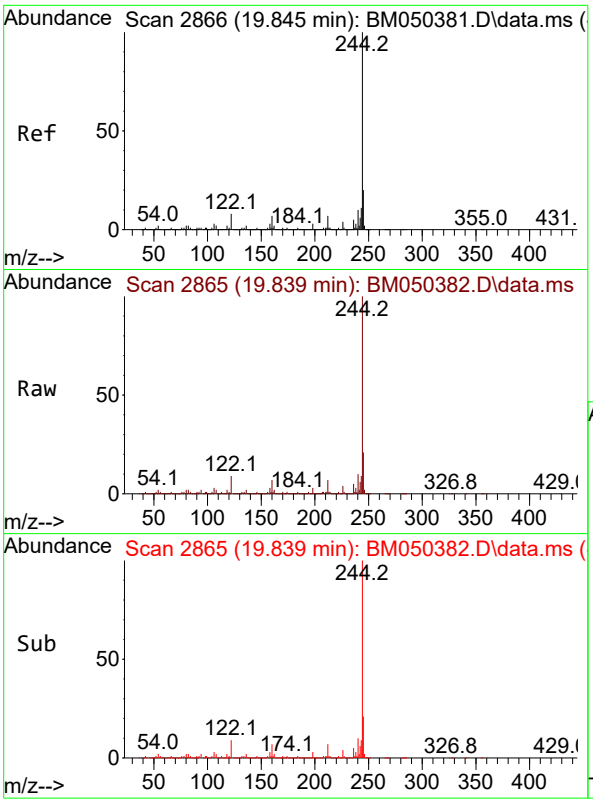


#78
Pyrene
Concen: 54.187 ng
RT: 19.639 min Scan# 2831
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:202 Resp: 6064476

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.1	21.1

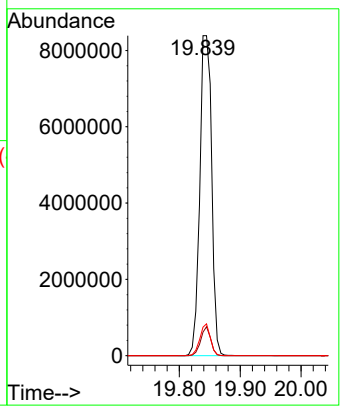




#79
Terphenyl-d14
Concen: 114.147 ng
RT: 19.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:244 Resp:1133698

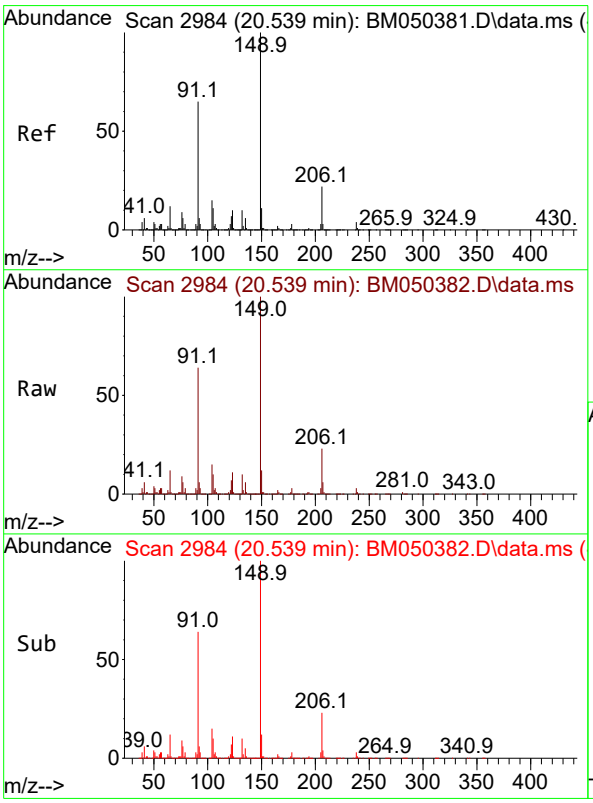
Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.7	8.5
122	8.9	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

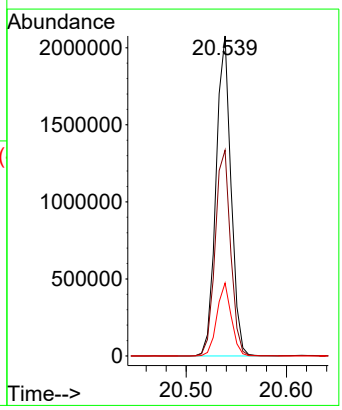
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

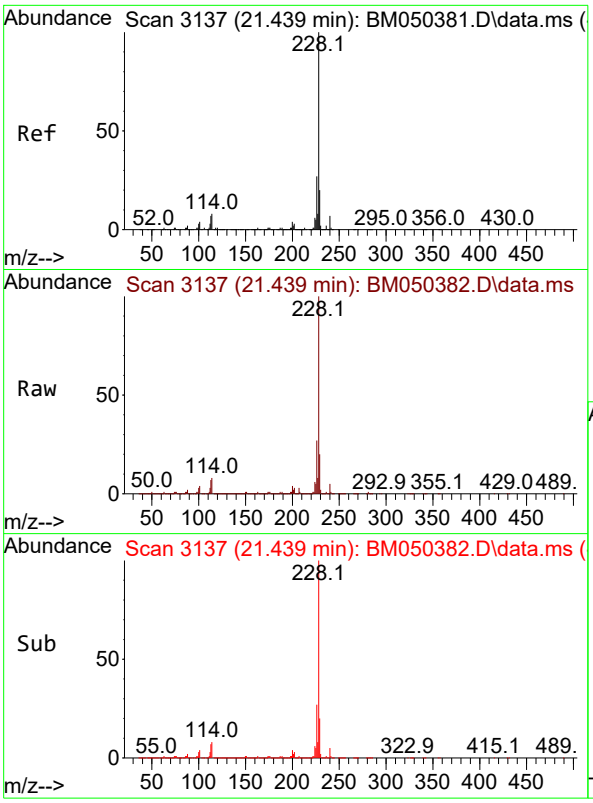


#80
Butylbenzylphthalate
Concen: 58.284 ng
RT: 20.539 min Scan# 2984
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:149 Resp: 2150816

Ion	Ratio	Lower	Upper
149	100		
91	64.3	51.6	77.4
206	22.8	17.8	26.8





#81
Benzo(a)anthracene
Concen: 54.793 ng
RT: 21.439 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

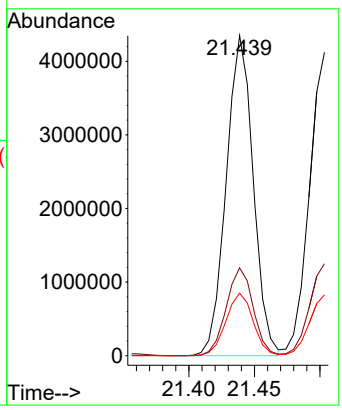
Tgt Ion:228 Resp: 623873

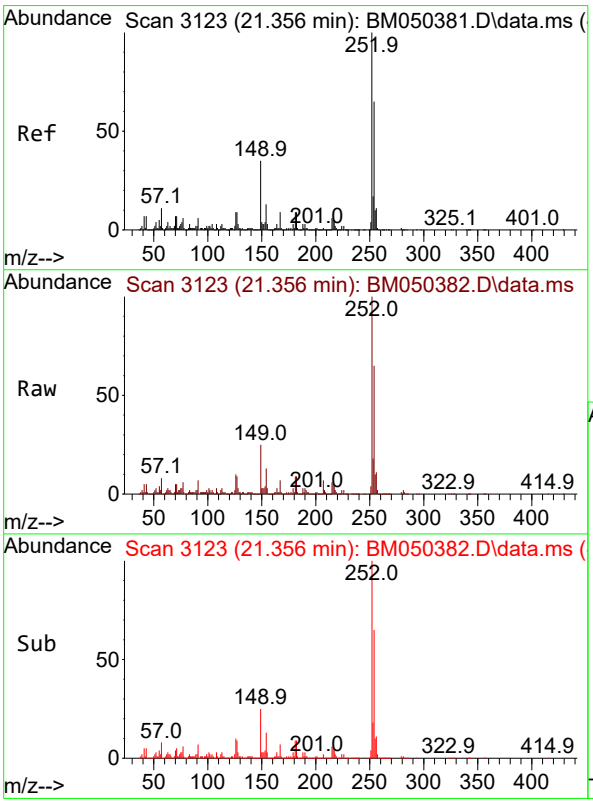
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.8	32.8
229	19.6	16.0	24.0

Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

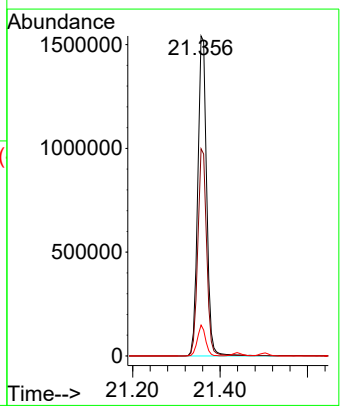


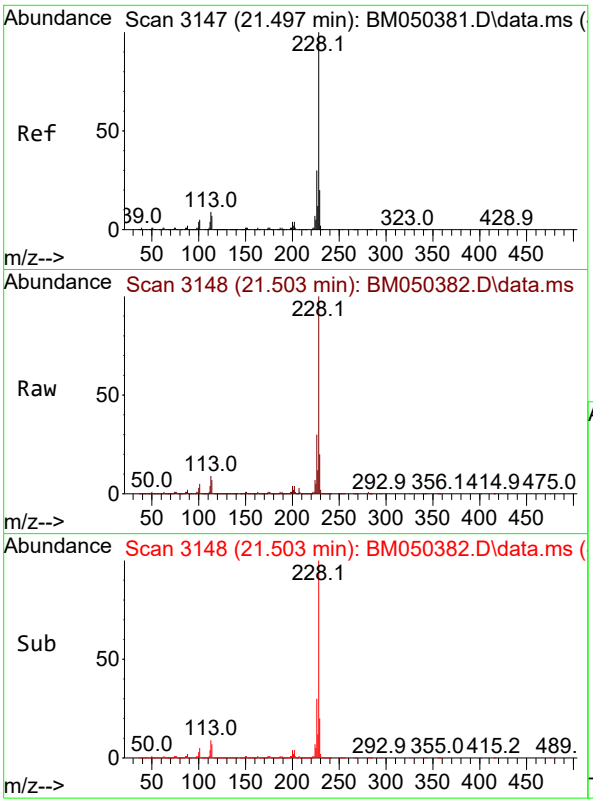


#82
3,3'-Dichlorobenzidine
Concen: 56.690 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:252 Resp: 2176770

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.7	77.5
126	9.6	7.3	10.9

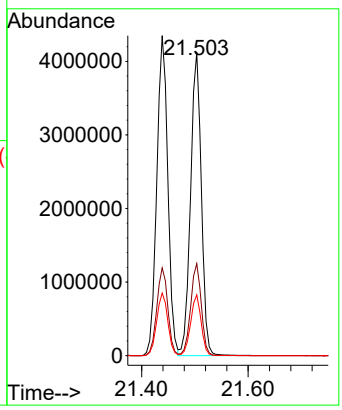




#83
Chrysene
Concen: 53.988 ng
RT: 21.503 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

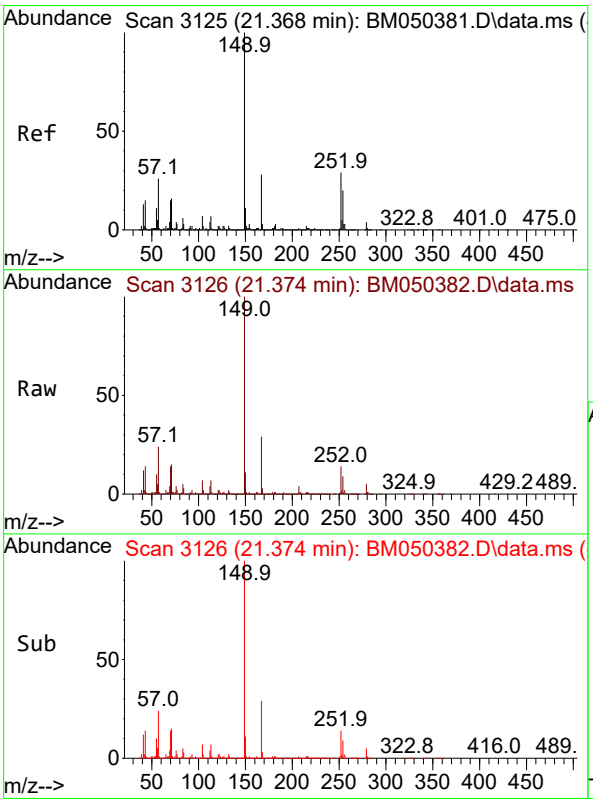
Tgt Ion:228 Resp: 579798

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.2	36.4
229	20.1	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

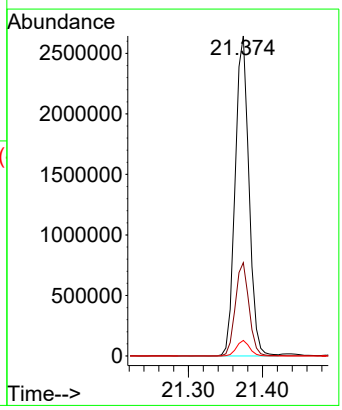
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

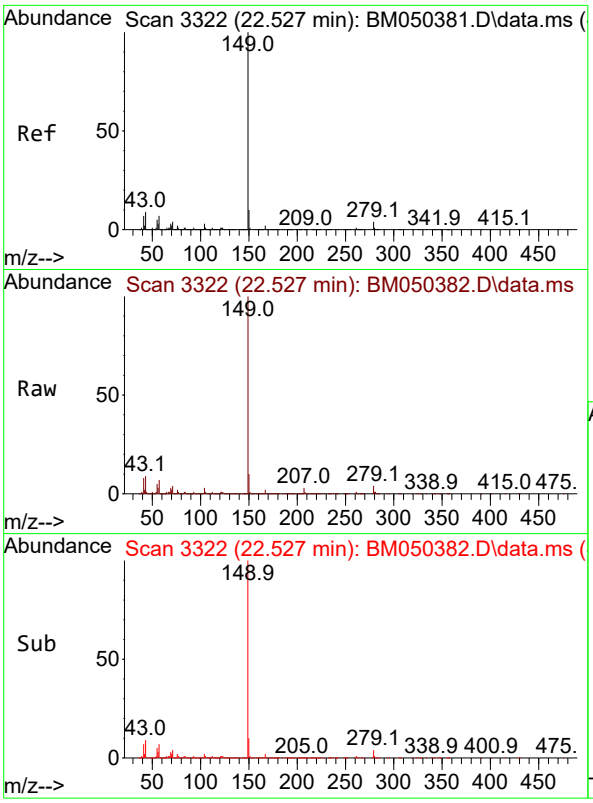


#84
Bis(2-ethylhexyl)phthalate
Concen: 58.166 ng
RT: 21.374 min Scan# 3126
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:149 Resp: 3407481

Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.7	34.1
279	4.9	3.5	5.3

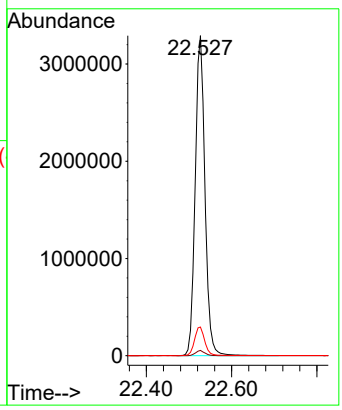




#85
Di-n-octyl phthalate
Concen: 56.816 ng
RT: 22.527 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:149 Resp: 521302

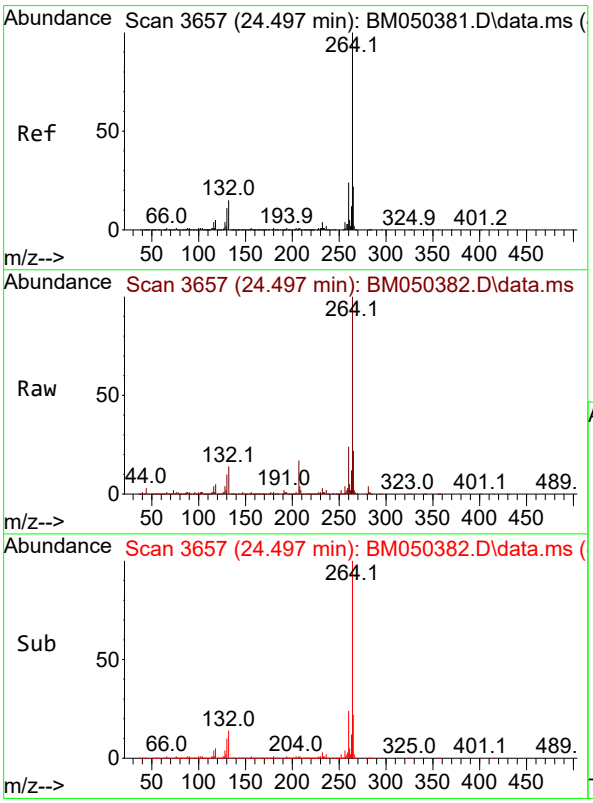
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.4	7.7	11.5



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

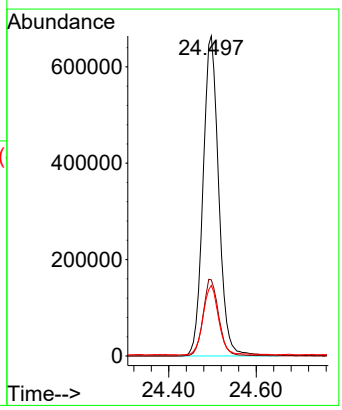
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

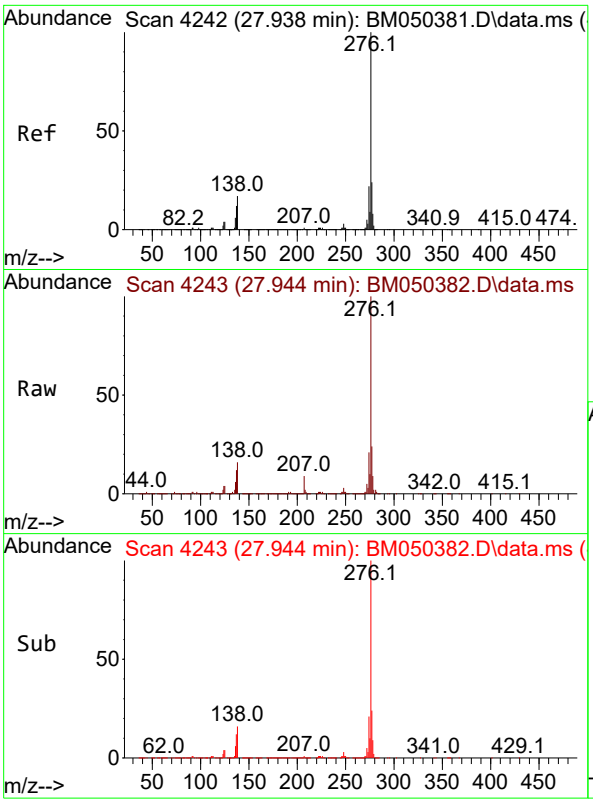


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.497 min Scan# 3657
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:264 Resp: 1657543

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.0	17.8	26.6

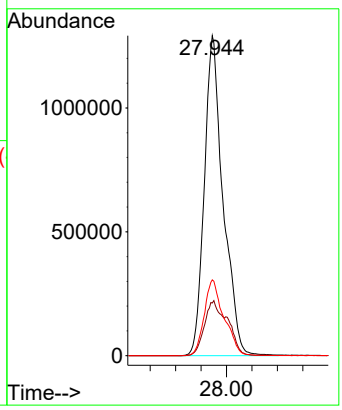




#87
Indeno(1,2,3-cd)pyrene
Concen: 56.349 ng
RT: 27.944 min Scan# 4
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:276 Resp: 664072

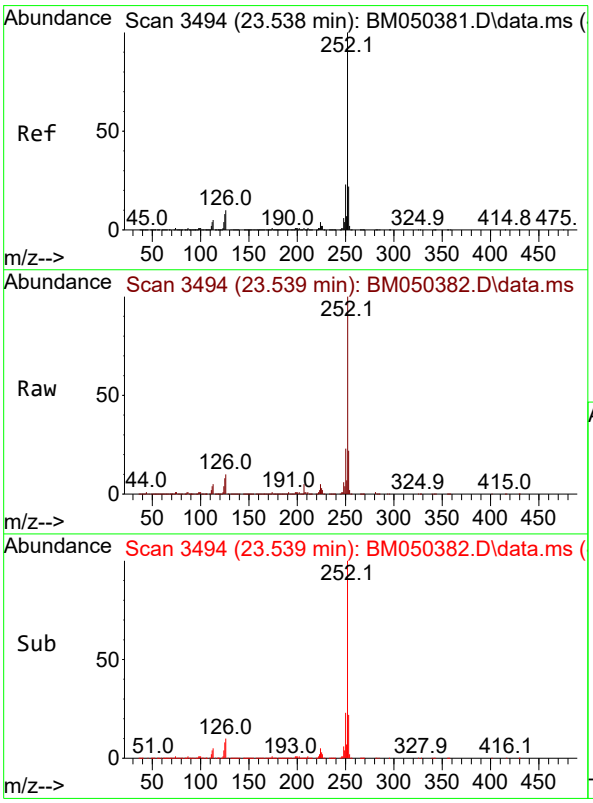
Ion	Ratio	Lower	Upper
276	100		
138	21.2	17.0	25.6
277	24.9	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

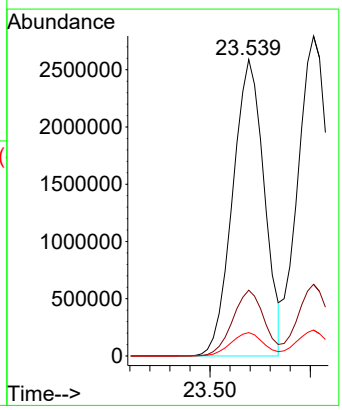
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

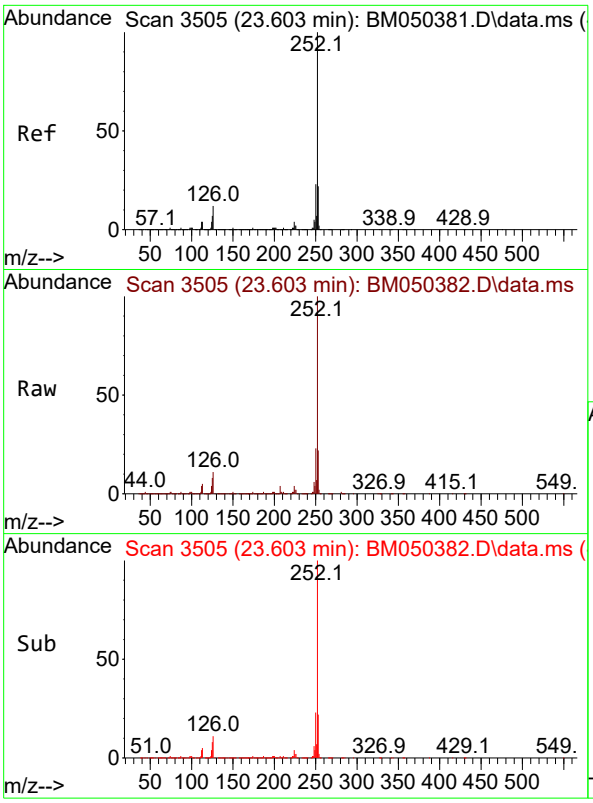


#88
Benzo(b)fluoranthene
Concen: 55.588 ng
RT: 23.539 min Scan# 3494
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:252 Resp: 5667484

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	7.9	6.3	9.5

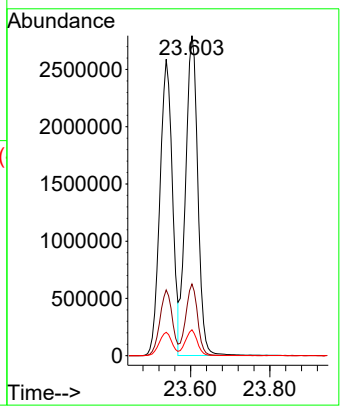




#89
Benzo(k)fluoranthene
Concen: 56.568 ng
RT: 23.603 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:252 Resp: 598441

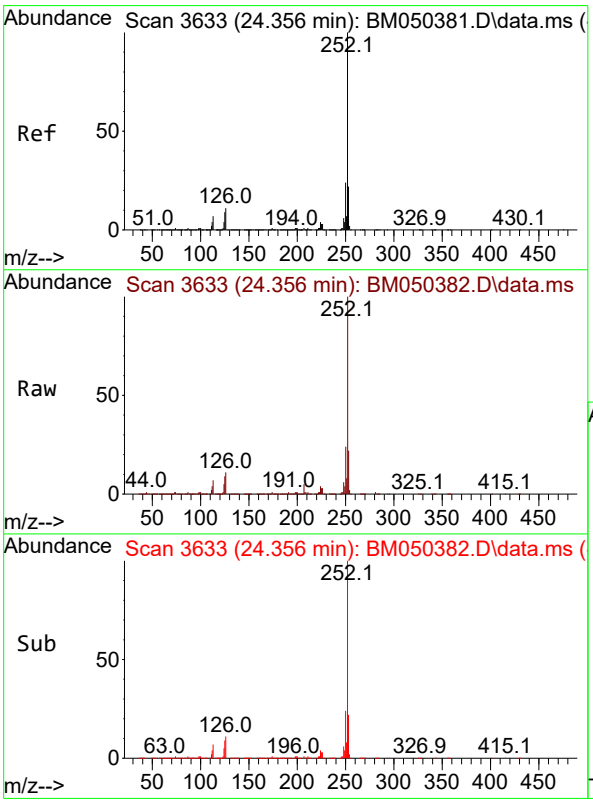
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	8.1	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

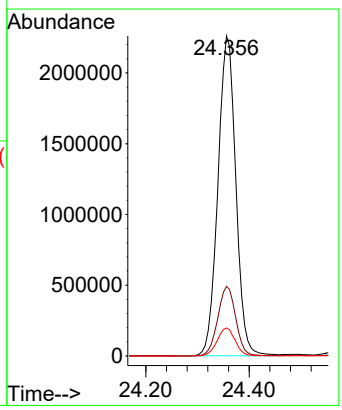
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

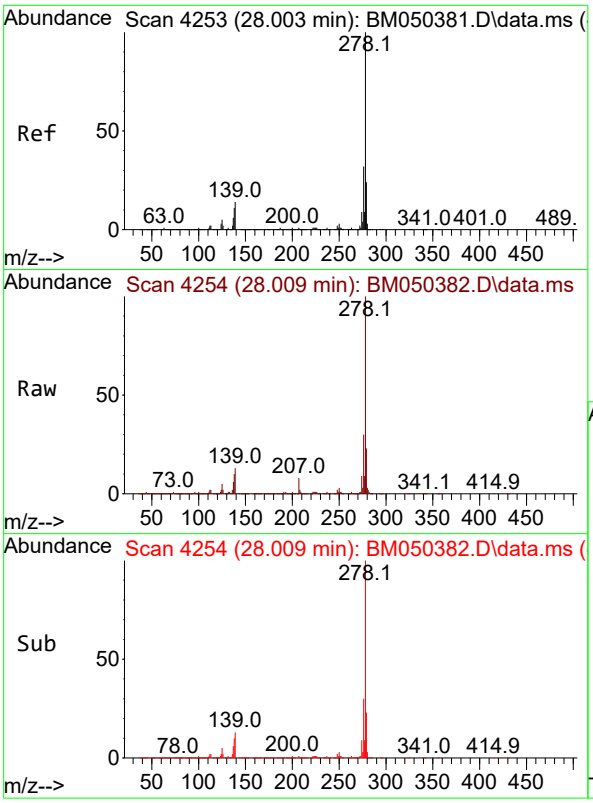


#90
Benzo(a)pyrene
Concen: 57.054 ng
RT: 24.356 min Scan# 3633
Delta R.T. 0.000 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:252 Resp: 5445326

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	8.7	7.0	10.4

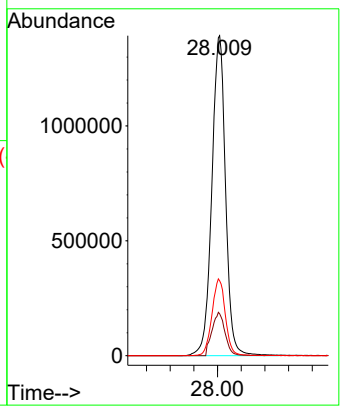




#91
Dibenzo(a,h)anthracene
Concen: 56.460 ng
RT: 28.009 min Scan# 4
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:278 Resp: 560361

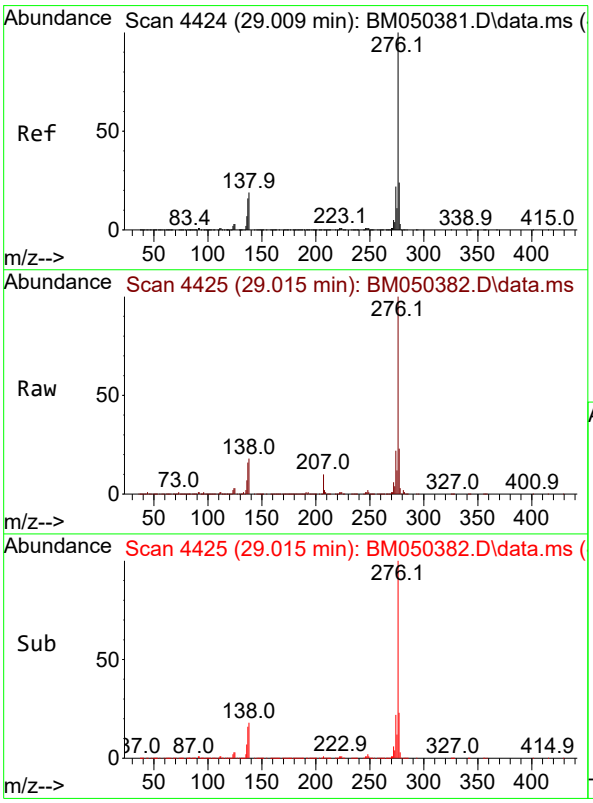
Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.8	16.2
279	23.4	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

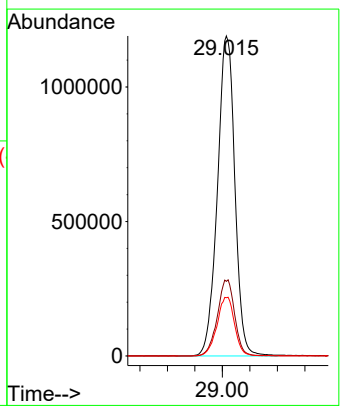
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



#92
Benzo(g,h,i)perylene
Concen: 55.817 ng
RT: 29.015 min Scan# 4425
Delta R.T. 0.006 min
Lab File: BM050382.D
Acq: 08 Jul 2025 16:01

Tgt Ion:276 Resp: 5235761

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.1	28.7
138	18.2	14.9	22.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050383.D
Acq On : 08 Jul 2025 16:41
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Quant Time: Jul 08 18:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	406200	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	1566187	20.000	ng	0.00
39) Acenaphthene-d10	14.492	164	998713	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	1896999	20.000	ng	0.00
76) Chrysene-d12	21.456	240	1968054	20.000	ng	0.00
86) Perylene-d12	24.497	264	1889317	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	2930103	124.166	ng	0.00
7) Phenol-d6	7.028	99	3771036	126.766	ng	0.00
23) Nitrobenzene-d5	9.022	82	3898203	126.983	ng	0.00
42) 2,4,6-Tribromophenol	15.974	330	1680132	138.460	ng	0.00
45) 2-Fluorobiphenyl	13.122	172	10167533	125.724	ng	0.00
79) Terphenyl-d14	19.839	244	12914894	115.460	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.334	88	578083	59.574	ng	99
3) Pyridine	3.734	79	1558687	61.184	ng	98
4) n-Nitrosodimethylamine	3.640	42	725301	61.070	ng	98
6) Aniline	7.193	93	2421019	63.416	ng	99
8) 2-Chlorophenol	7.428	128	1585370	63.712	ng	99
9) Benzaldehyde	7.004	77	845390	47.768	ng	99
10) Phenol	7.051	94	1946908	62.748	ng	99
11) bis(2-Chloroethyl)ether	7.287	93	1544784	62.169	ng	99
12) 1,3-Dichlorobenzene	7.757	146	1841011	60.846	ng	98
13) 1,4-Dichlorobenzene	7.904	146	1874083	60.660	ng	99
14) 1,2-Dichlorobenzene	8.222	146	1809670	61.182	ng	99
15) Benzyl Alcohol	8.098	79	1328453	63.380	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.393	45	2219161	60.631	ng	100
17) 2-Methylphenol	8.304	107	1277440	63.479	ng	98
18) Hexachloroethane	8.951	117	678042	62.403	ng	99
19) n-Nitroso-di-n-propyla...	8.675	70	1180119	65.485	ng	96
20) 3+4-Methylphenols	8.634	107	1697411	62.832	ng	98
22) Acetophenone	8.687	105	2408904	61.517	ng	98
24) Nitrobenzene	9.063	77	1702957	62.165	ng	99
25) Isophorone	9.592	82	3190767	64.054	ng	99
26) 2-Nitrophenol	9.775	139	783612	70.186	ng	97
27) 2,4-Dimethylphenol	9.834	122	1490764	62.749	ng	98
28) bis(2-Chloroethoxy)met...	10.075	93	2048832	62.070	ng	99
29) 2,4-Dichlorophenol	10.310	162	1570701	64.353	ng	98
30) 1,2,4-Trichlorobenzene	10.528	180	1810982	62.024	ng	99
31) Naphthalene	10.716	128	4834692	60.775	ng	100
32) Benzoic acid	9.975	122	912053	60.734	ng	99
33) 4-Chloroaniline	10.810	127	2130451	63.348	ng	99
34) Hexachlorobutadiene	11.010	225	1123283	63.032	ng	99
35) Caprolactam	11.598	113	438205	65.768	ng	95
36) 4-Chloro-3-methylphenol	11.939	107	1472646	64.612	ng	98
37) 2-Methylnaphthalene	12.322	142	3153595	62.784	ng	98
38) 1-Methylnaphthalene	12.539	142	3322331	62.500	ng	99
40) 1,2,4,5-Tetrachloroben...	12.692	216	2046472	64.436	ng	99
41) Hexachlorocyclopentadiene	12.680	237	1359023	66.942	ng	99
43) 2,4,6-Trichlorophenol	12.928	196	1299719	66.483	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050383.D
Acq On : 08 Jul 2025 16:41
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Quant Time: Jul 08 18:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

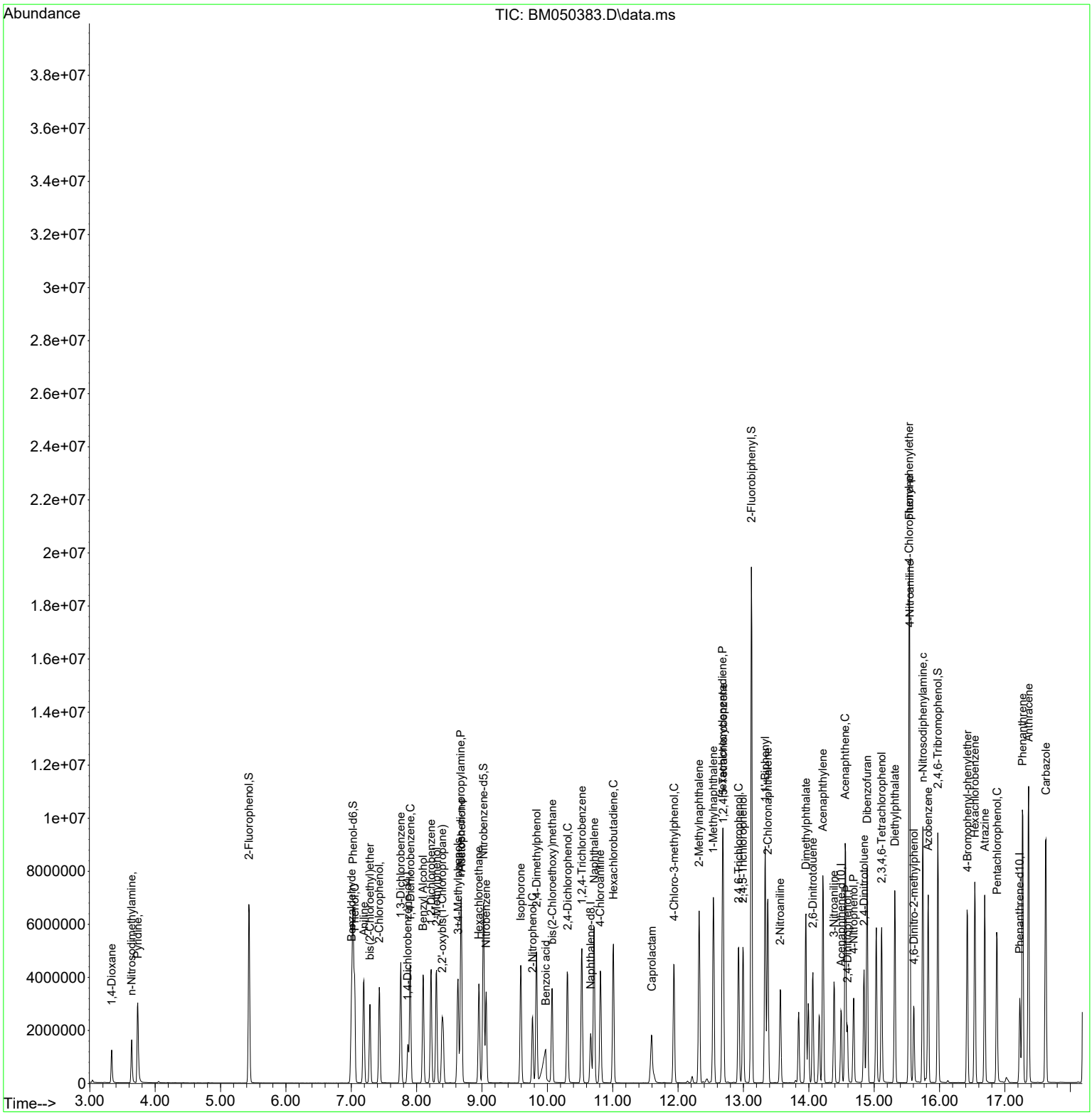
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.992	196	1407280	65.913	ng	98
46) 1,1'-Biphenyl	13.333	154	4574537	61.736	ng	100
47) 2-Chloronaphthalene	13.375	162	3645124	61.699	ng	99
48) 2-Nitroaniline	13.563	65	904021	68.554	ng	98
49) Acenaphthylene	14.216	152	5618754	62.931	ng	99
50) Dimethylphthalate	13.957	163	4291046	62.407	ng	99
51) 2,6-Dinitrotoluene	14.063	165	891260	67.510	ng	99
52) Acenaphthene	14.557	154	3582059	63.105	ng	100
53) 3-Nitroaniline	14.386	138	957239	68.179	ng	98
54) 2,4-Dinitrophenol	14.592	184	439445	61.898	ng	85
55) Dibenzofuran	14.892	168	5344109	61.102	ng	100
56) 4-Nitrophenol	14.686	139	794516	65.804	ng	95
57) 2,4-Dinitrotoluene	14.845	165	1218665	60.887	ng	98
58) Fluorene	15.539	166	4560797	63.309	ng	99
59) 2,3,4,6-Tetrachlorophenol	15.116	232	1189838	66.202	ng	99
60) Diethylphthalate	15.316	149	4130183	62.882	ng	100
61) 4-Chlorophenyl-phenyle...	15.533	204	2430909	64.533	ng	98
62) 4-Nitroaniline	15.545	138	991212	60.686	ng	99
63) Azobenzene	15.827	77	3812033	63.206	ng	100
65) 4,6-Dinitro-2-methylph...	15.610	198	645034	61.235	ng	91
66) n-Nitrosodiphenylamine	15.745	169	3744872	63.087	ng	99
67) 4-Bromophenyl-phenylether	16.427	248	1368680	65.485	ng	99
68) Hexachlorobenzene	16.539	284	1586965	64.288	ng	98
69) Atrazine	16.692	200	1296405	66.510	ng	100
70) Pentachlorophenol	16.880	266	1022433	66.535	ng	99
71) Phenanthrene	17.268	178	6618592	61.658	ng	100
72) Anthracene	17.363	178	6849285	64.102	ng	100
73) Carbazole	17.627	167	6106388	63.161	ng	99
74) Di-n-butylphthalate	18.198	149	6920453	65.398	ng	100
75) Fluoranthene	19.280	202	7618952	65.290	ng	99
77) Benzidine	19.456	184	3256422	64.872	ng	100
78) Pyrene	19.639	202	8067941	64.009	ng	100
80) Butylbenzylphthalate	20.533	149	2900200	69.782	ng	97
81) Benzo(a)anthracene	21.439	228	8142088	63.495	ng	99
82) 3,3'-Dichlorobenzidine	21.356	252	2878037	66.553	ng	100
83) Chrysene	21.503	228	7690956	63.587	ng	100
84) Bis(2-ethylhexyl)phtha...	21.368	149	4504059	68.268	ng	98
85) Di-n-octyl phthalate	22.521	149	7047940	68.206	ng	99
87) Indeno(1,2,3-cd)pyrene	27.950	276	8866549	66.007	ng	99
88) Benzo(b)fluoranthene	23.539	252	7617485	65.548	ng	99
89) Benzo(k)fluoranthene	23.603	252	7861158	65.192	ng	100
90) Benzo(a)pyrene	24.356	252	7260855	66.744	ng	99
91) Dibenzo(a,h)anthracene	28.009	278	7483970	66.155	ng	99
92) Benzo(g,h,i)perylene	29.021	276	6983867	65.319	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050383.D
Acq On : 08 Jul 2025 16:41
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

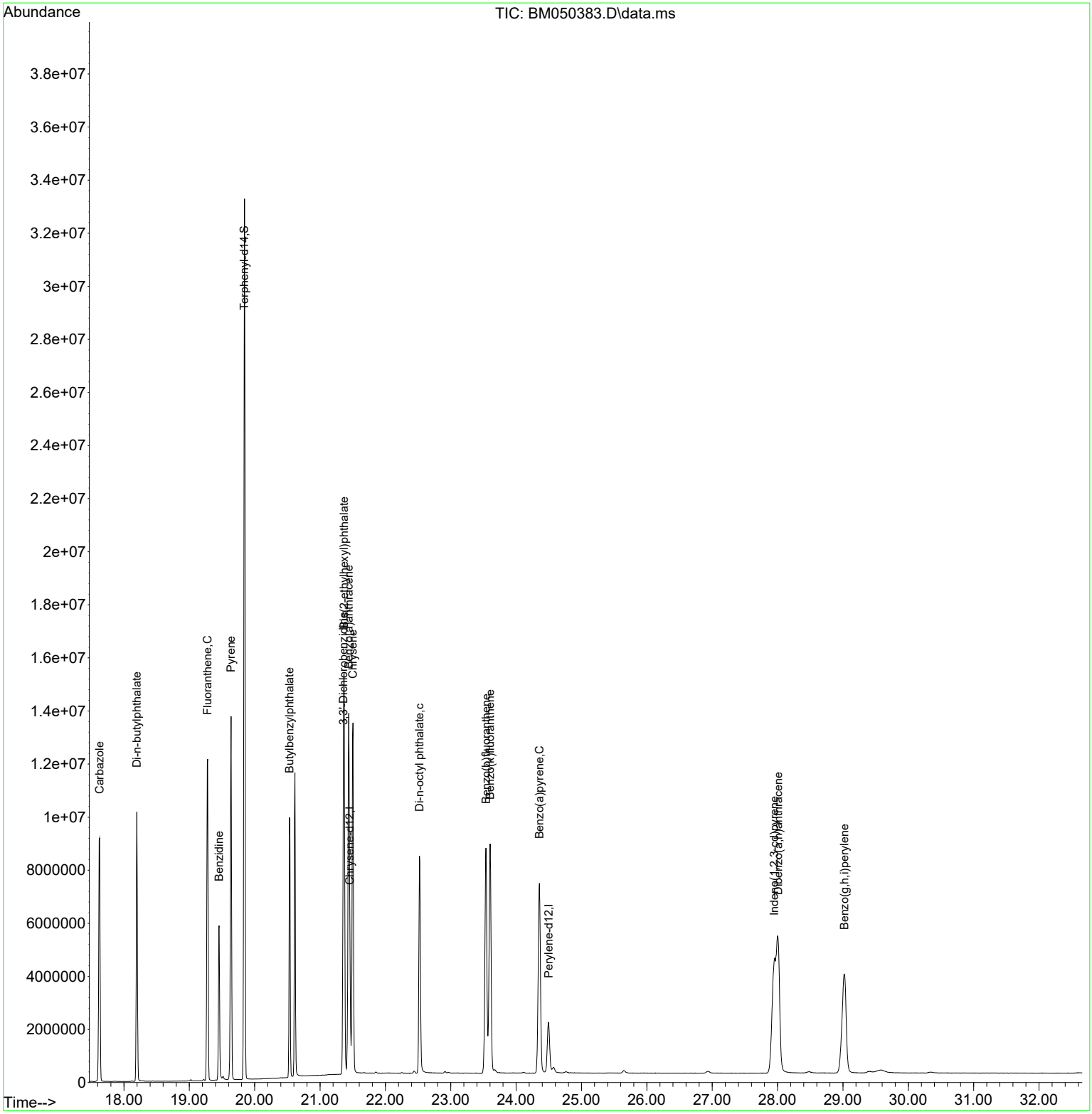
Quant Time: Jul 08 18:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

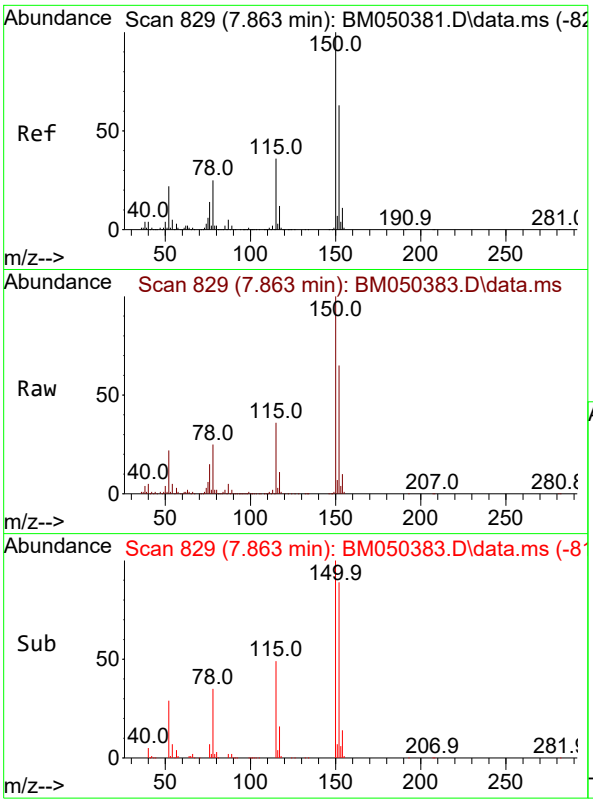


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050383.D
Acq On : 08 Jul 2025 16:41
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Quant Time: Jul 08 18:23:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration



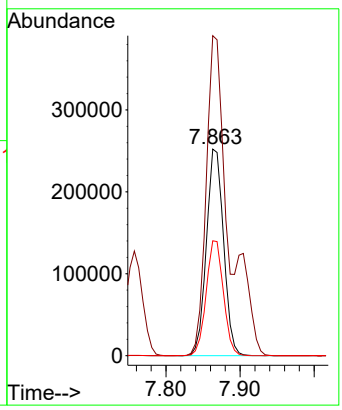


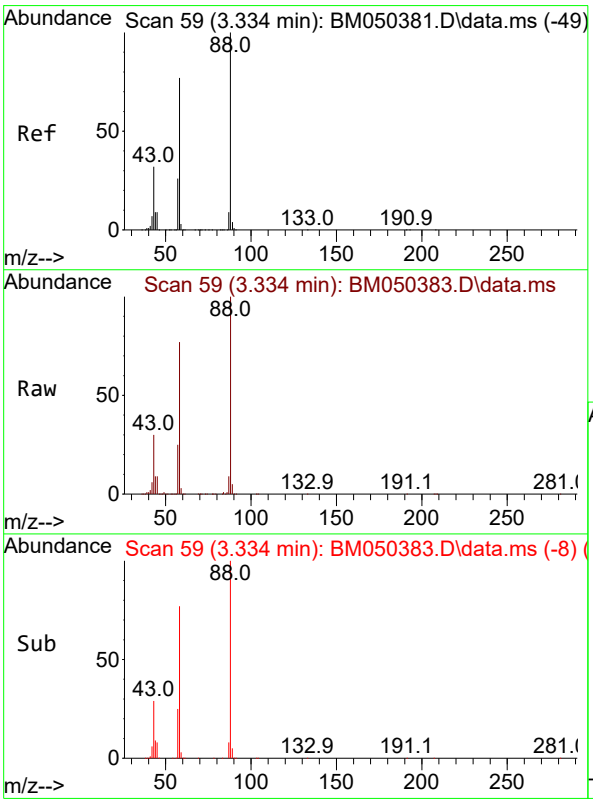
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 406200

Ion	Ratio	Lower	Upper
152	100		
150	155.0	126.2	189.4
115	55.6	45.8	68.8

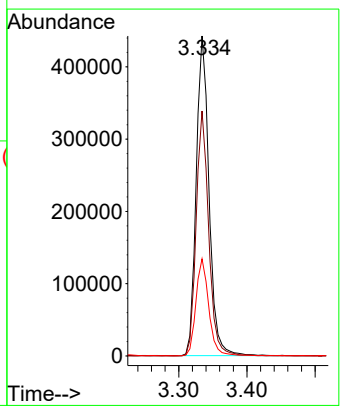


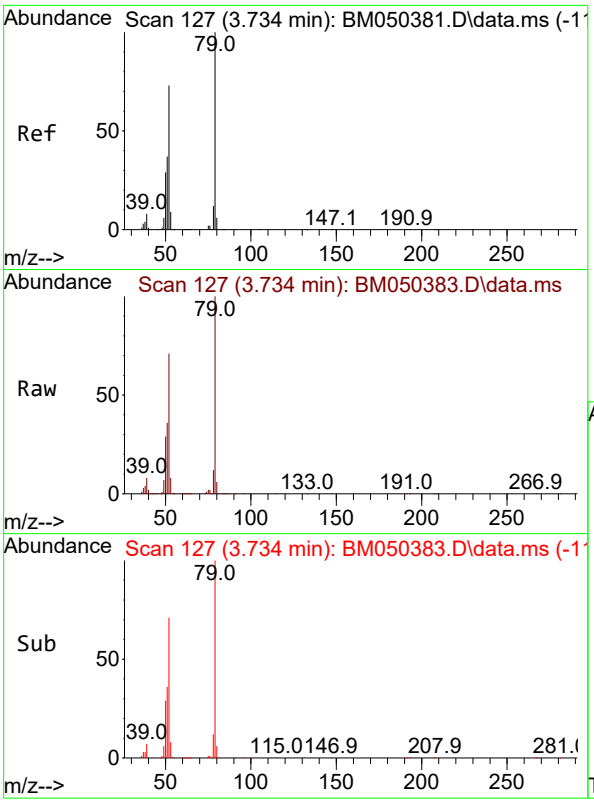


#2
1,4-Dioxane
Concen: 59.574 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 88 Resp: 578083

Ion	Ratio	Lower	Upper
88	100		
58	75.0	61.0	91.6
43	30.3	24.6	37.0



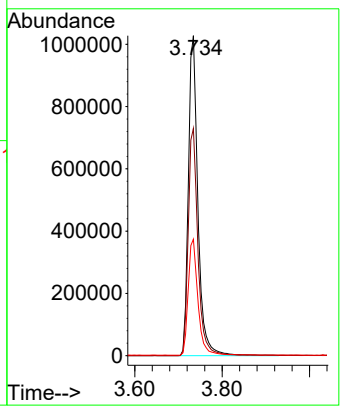


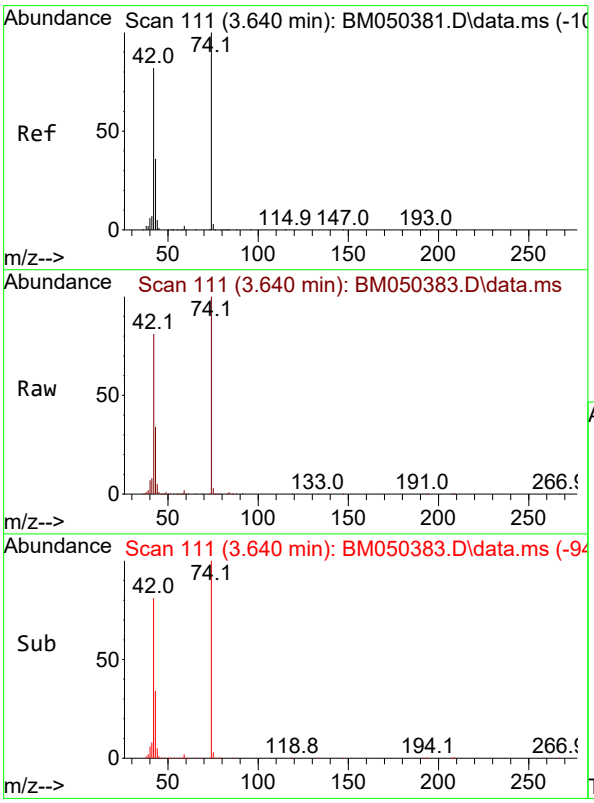
#3
Pyridine
Concen: 61.184 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1558687

Ion	Ratio	Lower	Upper
79	100		
52	71.0	58.3	87.5
51	36.4	29.6	44.4

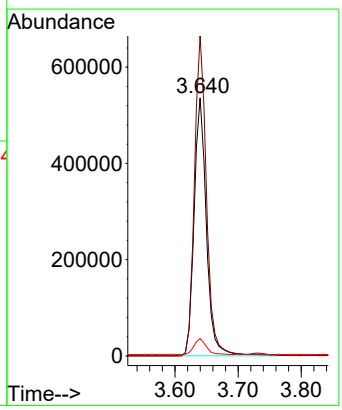


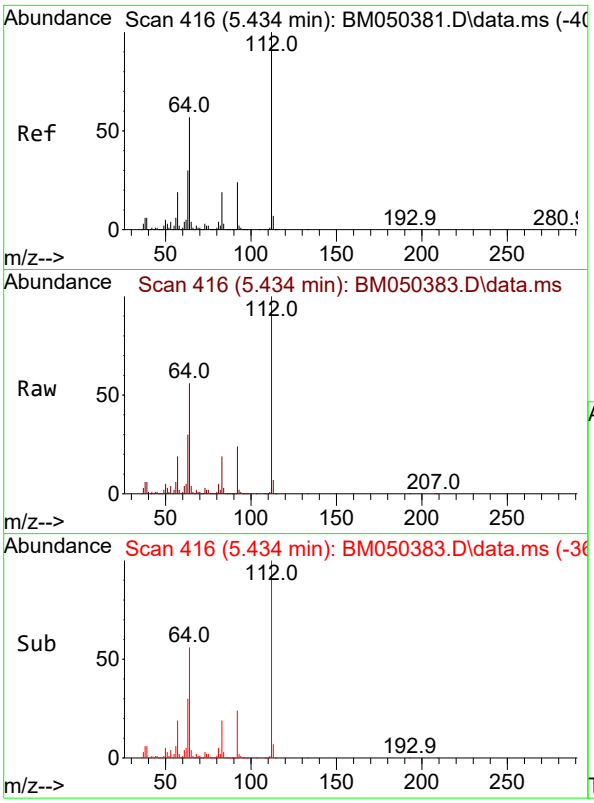


#4
n-Nitrosodimethylamine
Concen: 61.070 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 42 Resp: 725301

Ion	Ratio	Lower	Upper
42	100		
74	124.0	97.5	146.3
44	6.7	5.7	8.5



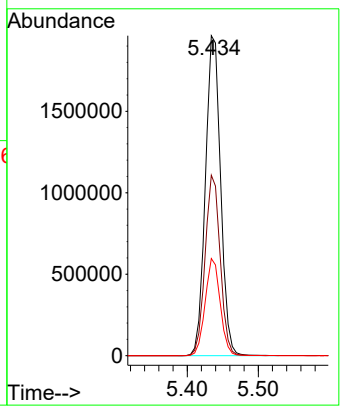


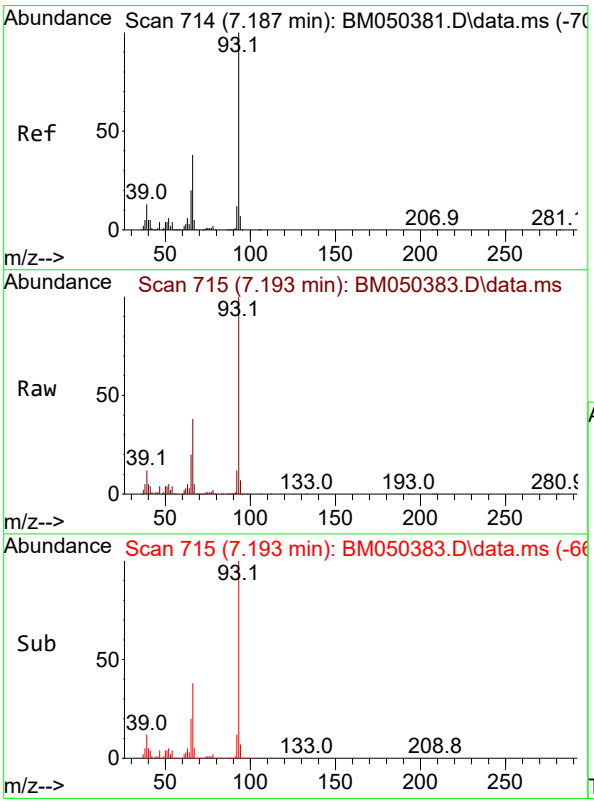
#5
2-Fluorophenol
Concen: 124.166 ng
RT: 5.434 min Scan# 41
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 2930103

Ion	Ratio	Lower	Upper
112	100		
64	56.4	45.5	68.3
63	30.3	24.2	36.4

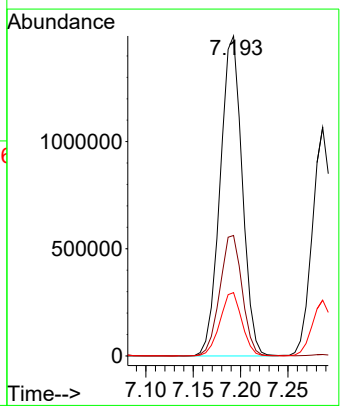


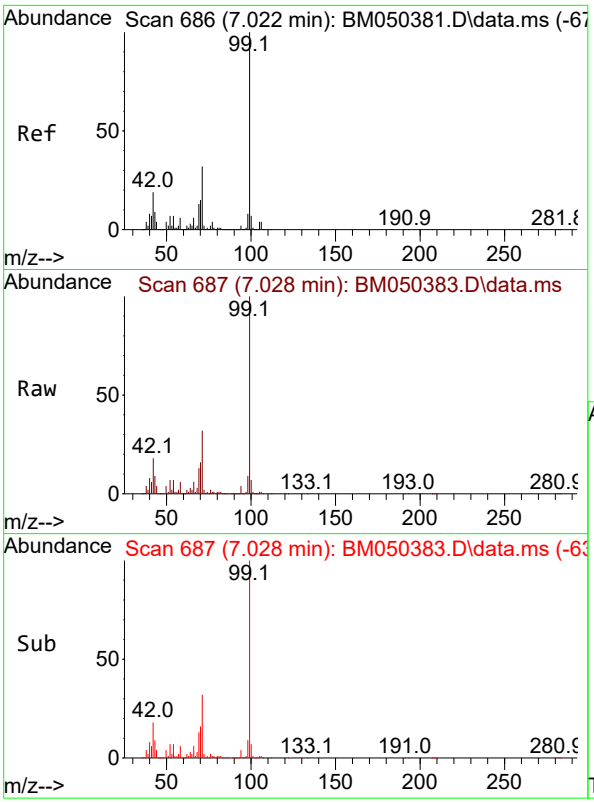


#6
Aniline
Concen: 63.416 ng
RT: 7.193 min Scan# 715
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 93 Resp: 2421019

Ion	Ratio	Lower	Upper
93	100		
66	37.7	30.5	45.7
65	19.8	15.9	23.9



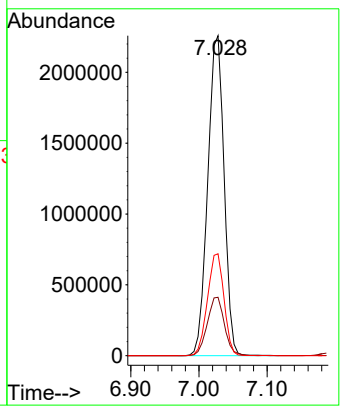


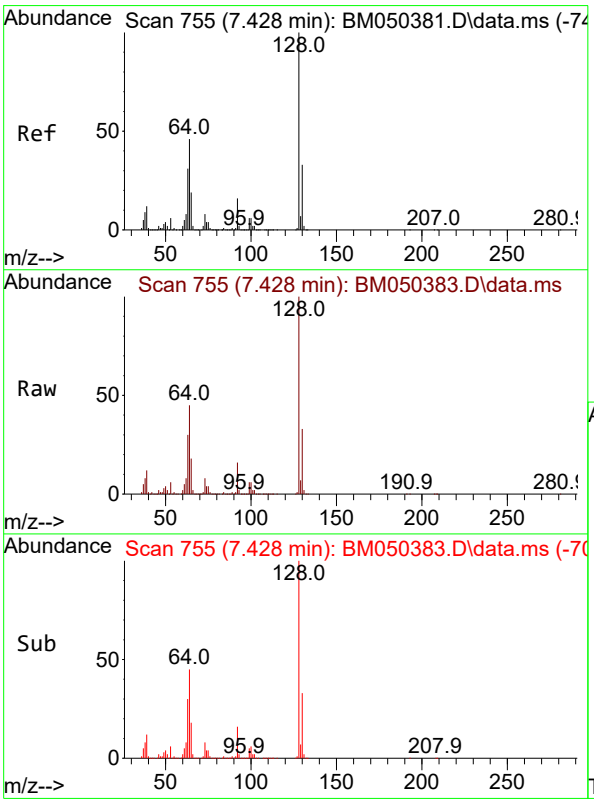
#7
Phenol-d6
Concen: 126.766 ng
RT: 7.028 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 3771036

Ion	Ratio	Lower	Upper
99	100		
42	18.3	15.0	22.6
71	31.8	25.9	38.9

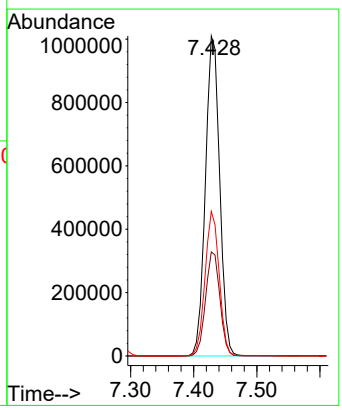


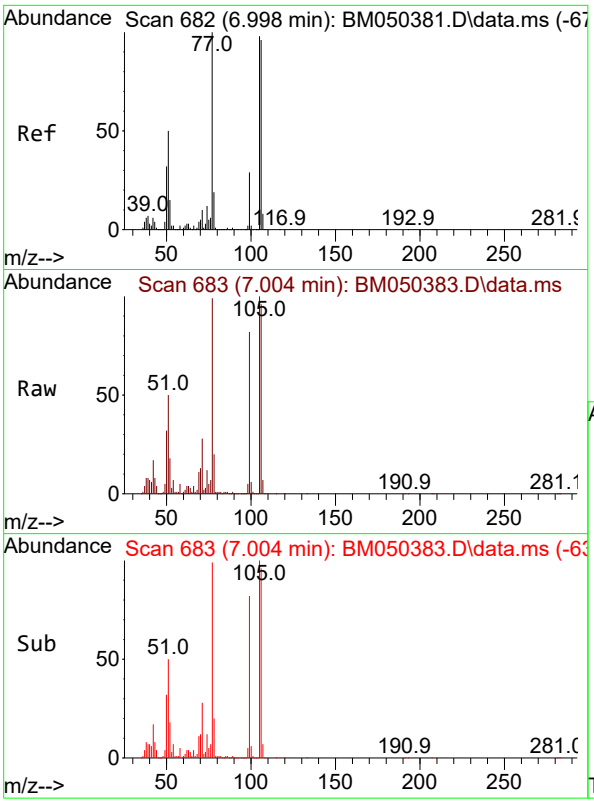


#8
2-Chlorophenol
Concen: 63.712 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:128 Resp: 1585370

Ion	Ratio	Lower	Upper
128	100		
130	32.5	13.3	53.3
64	45.1	25.6	65.6



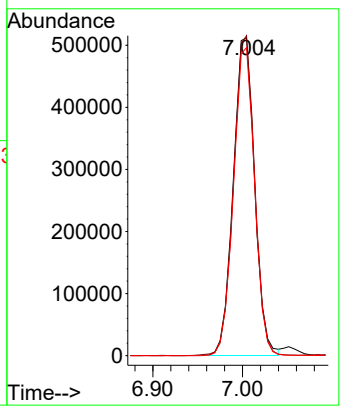


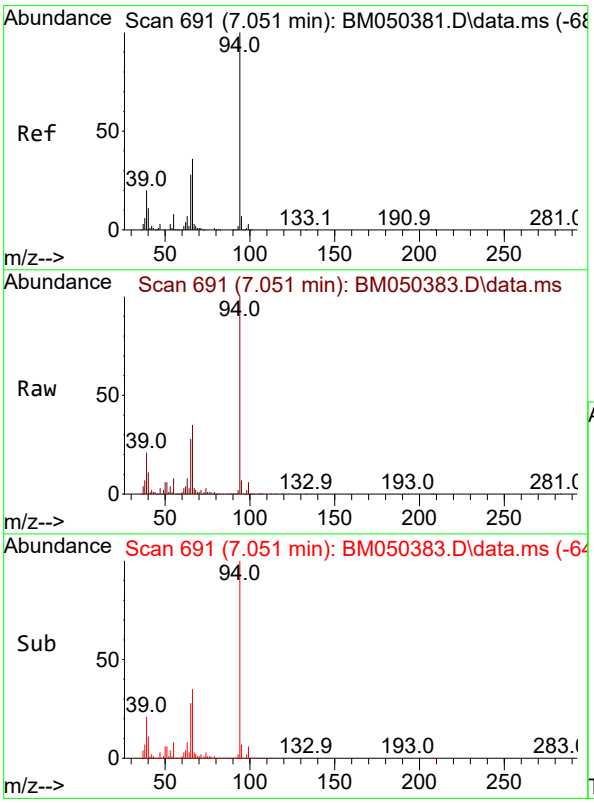
#9
Benzaldehyde
Concen: 47.768 ng
RT: 7.004 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 845390

Ion	Ratio	Lower	Upper
77	100		
105	100.6	78.4	118.4
106	96.9	76.3	116.3

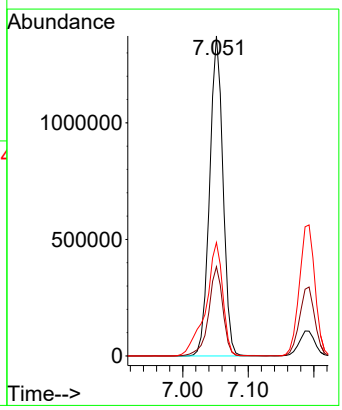


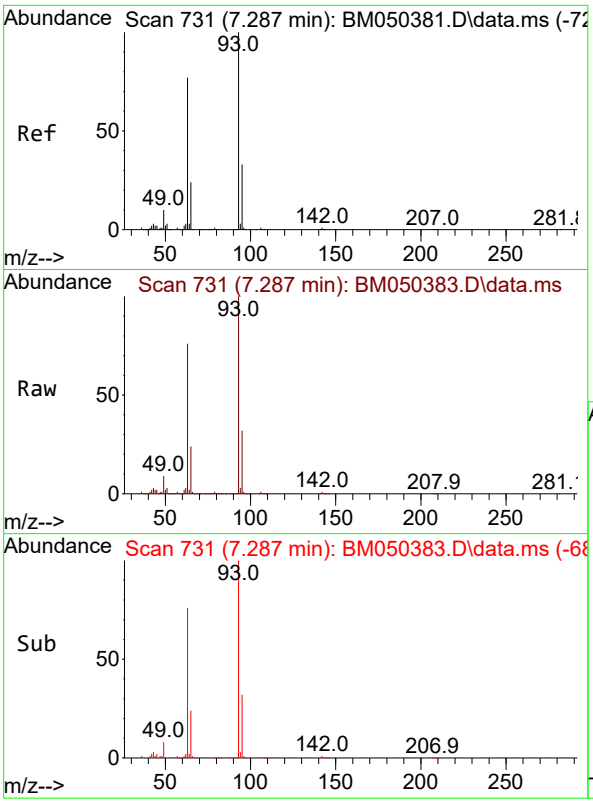


#10
Phenol
Concen: 62.748 ng
RT: 7.051 min Scan# 691
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 94 Resp: 1946908

Ion	Ratio	Lower	Upper
94	100		
65	27.9	8.1	48.1
66	35.4	15.8	55.8



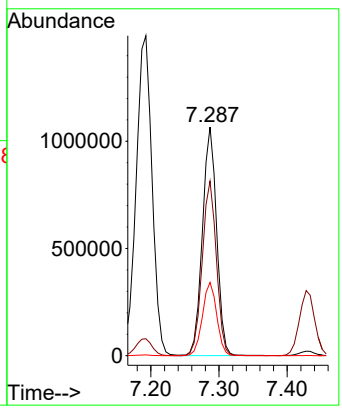


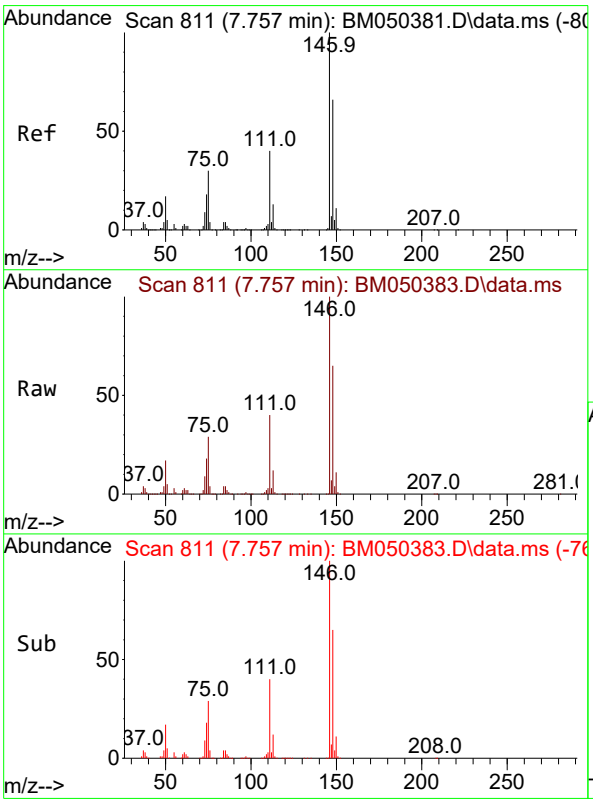
#11
bis(2-Chloroethyl)ether
Concen: 62.169 ng
RT: 7.287 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 1544784

Ion	Ratio	Lower	Upper
93	100		
63	76.4	56.9	96.9
95	32.1	12.6	52.6

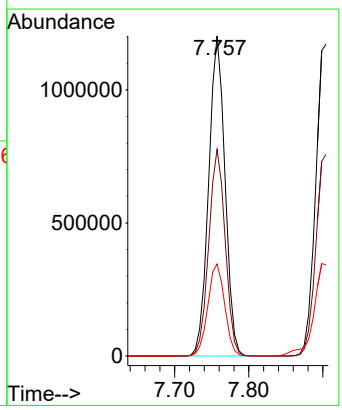


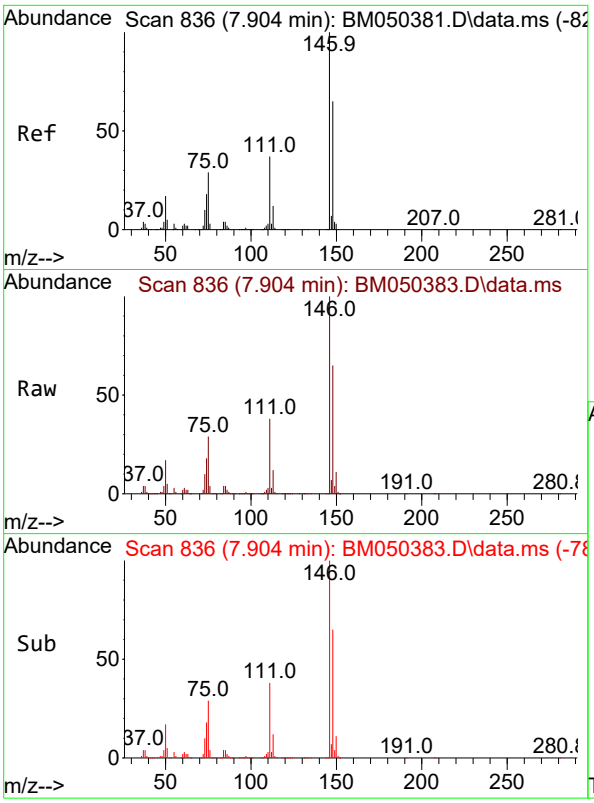


#12
1,3-Dichlorobenzene
Concen: 60.846 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:146 Resp: 1841011

Ion	Ratio	Lower	Upper
146	100		
148	64.6	53.2	79.8
75	28.7	23.9	35.9



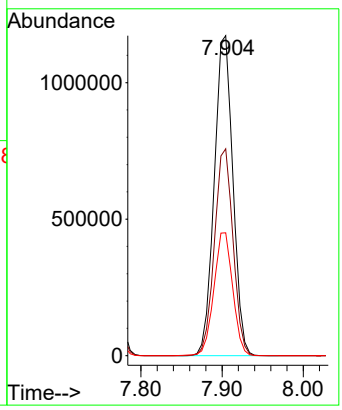


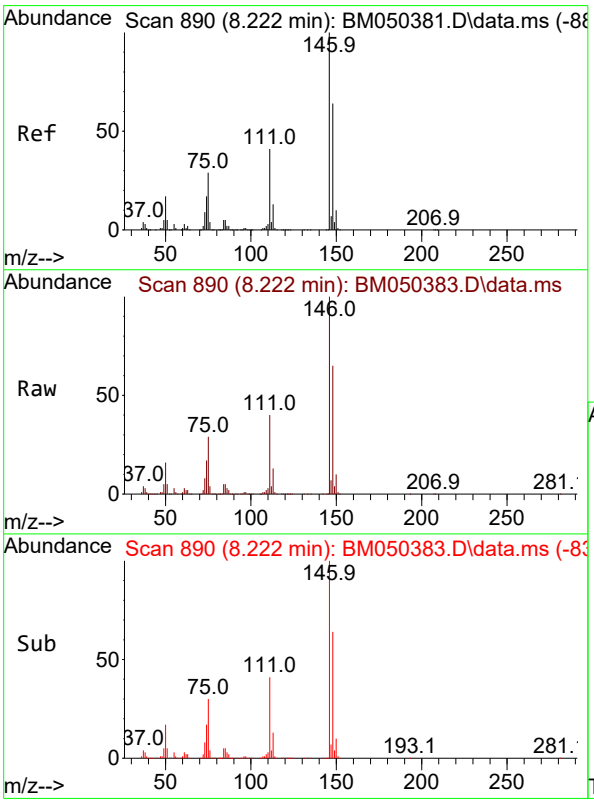
#13
1,4-Dichlorobenzene
Concen: 60.660 ng
RT: 7.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 1874083

Ion	Ratio	Lower	Upper
146	100		
148	64.7	51.9	77.9
111	38.4	30.0	45.0

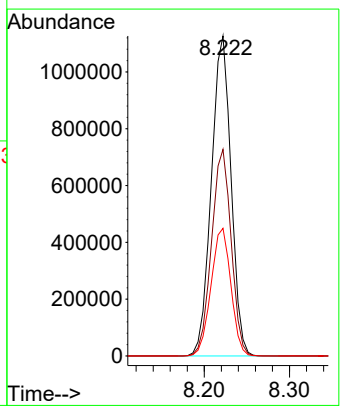


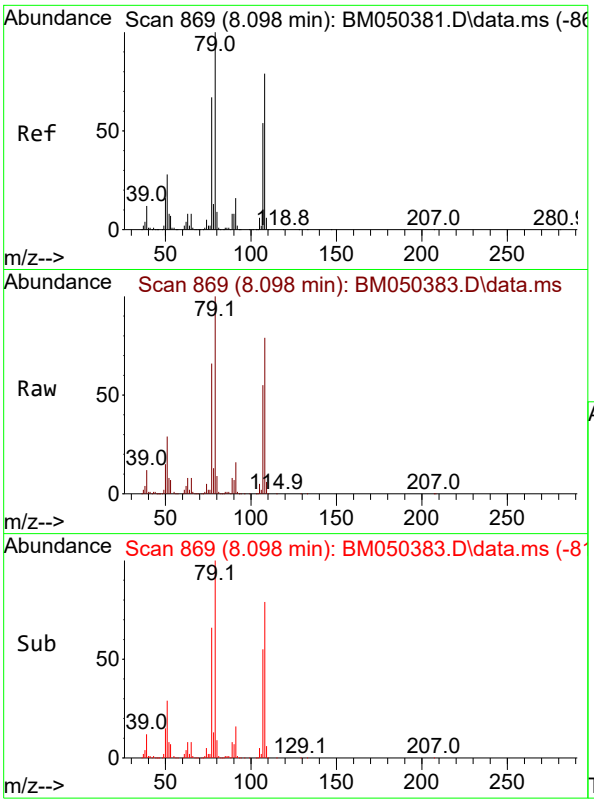


#14
1,2-Dichlorobenzene
Concen: 61.182 ng
RT: 8.222 min Scan# 890
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:146 Resp: 1809670

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.5	77.3
111	39.9	32.6	49.0



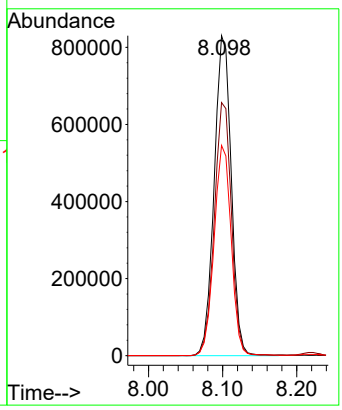


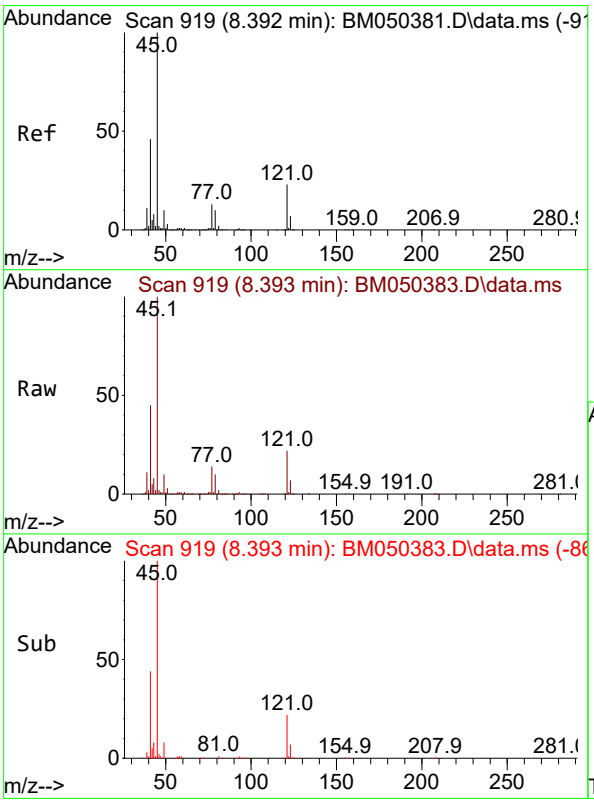
#15
Benzyl Alcohol
Concen: 63.380 ng
RT: 8.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 1328453

Ion	Ratio	Lower	Upper
79	100		
108	79.1	63.0	94.4
77	65.7	53.4	80.0

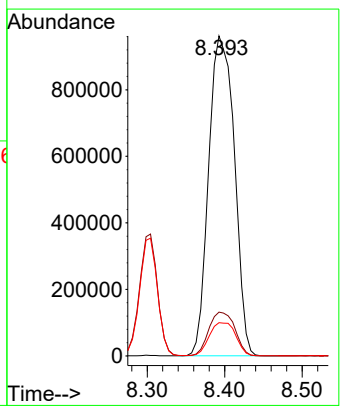


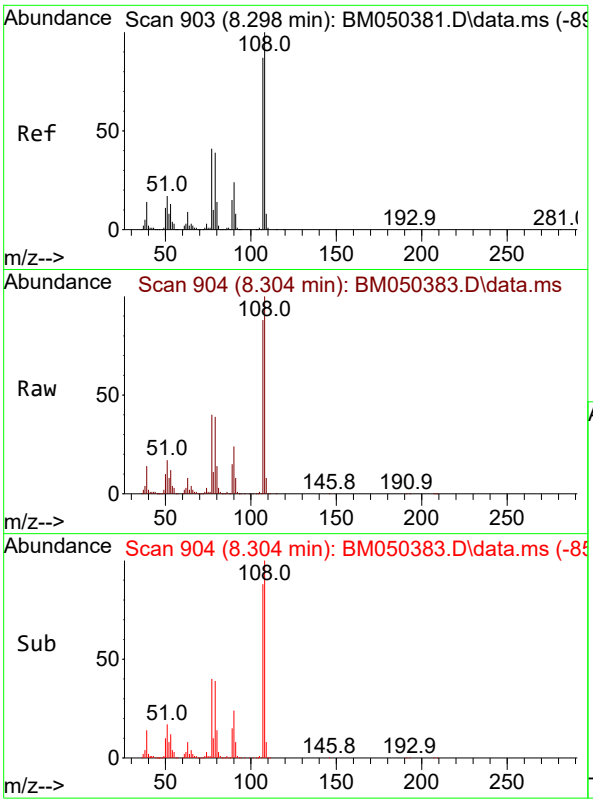


#16
2,2'-oxybis(1-Chloropropane)
Concen: 60.631 ng
RT: 8.393 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 45 Resp: 2219161

Ion	Ratio	Lower	Upper
45	100		
77	13.7	0.0	33.5
79	10.4	0.0	30.3



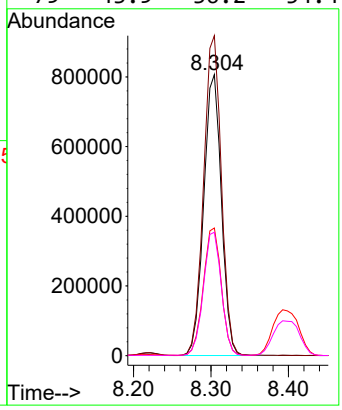


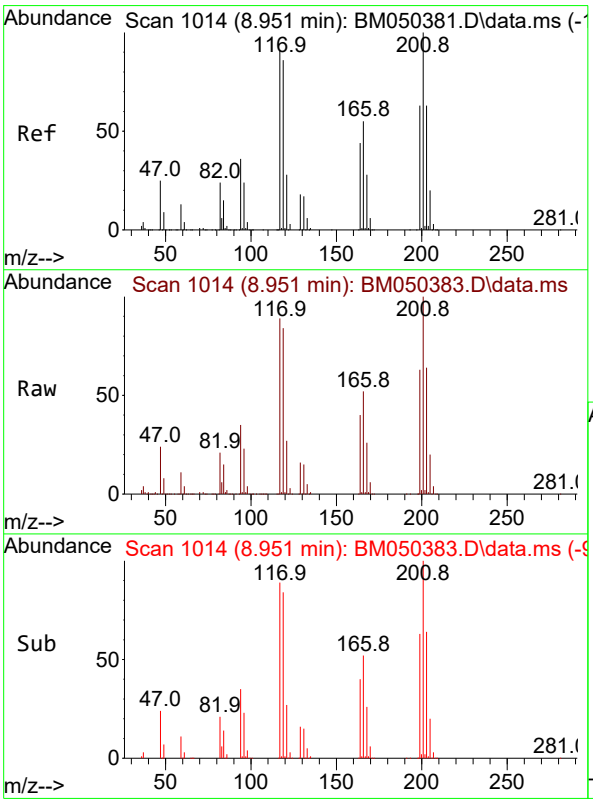
#17
2-Methylphenol
Concen: 63.479 ng
RT: 8.304 min Scan# 9(
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 1277440

Ion	Ratio	Lower	Upper
107	100		
108	113.8	92.1	138.1
77	45.4	38.2	57.4
79	43.9	36.2	54.4

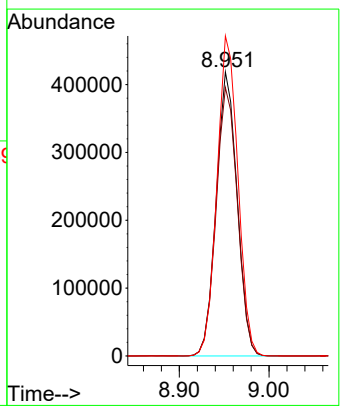


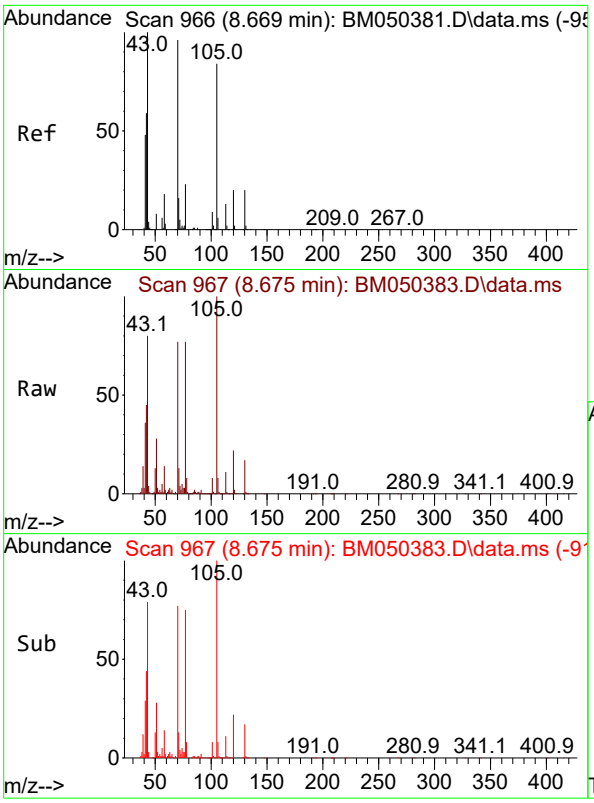


#18
Hexachloroethane
Concen: 62.403 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:117 Resp: 678042

Ion	Ratio	Lower	Upper
117	100		
119	94.5	75.6	113.4
201	112.7	87.9	131.9



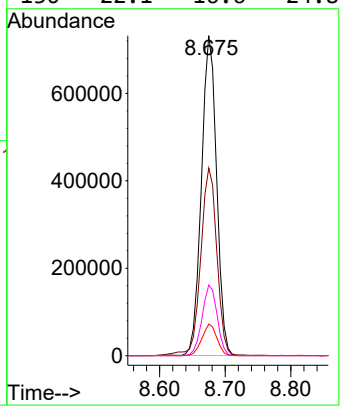


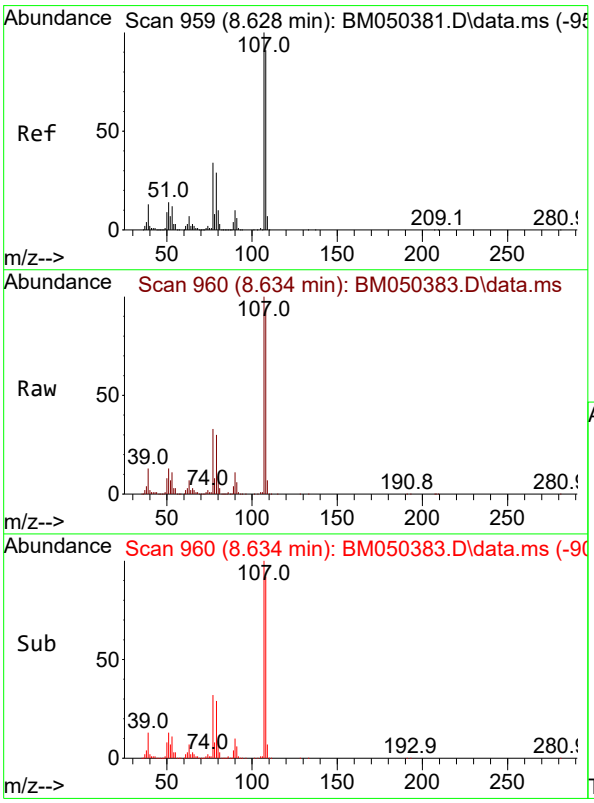
#19
n-Nitroso-di-n-propylamine
Concen: 65.485 ng
RT: 8.675 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 1180119

Ion	Ratio	Lower	Upper
70	100		
42	58.6	49.7	74.5
101	9.9	7.7	11.5
130	22.1	16.6	24.8

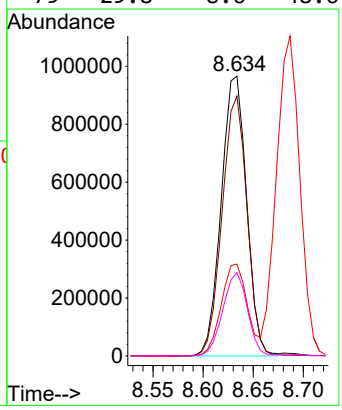


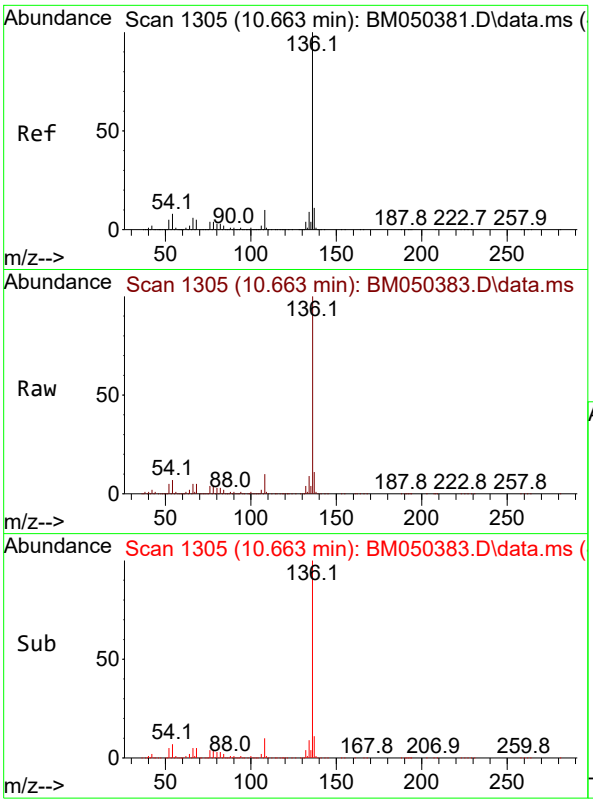


#20
3+4-Methylphenols
Concen: 62.832 ng
RT: 8.634 min Scan# 960
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:107 Resp: 1697411

Ion	Ratio	Lower	Upper
107	100		
108	92.9	71.5	111.5
77	32.9	13.7	53.7
79	29.8	8.6	48.6



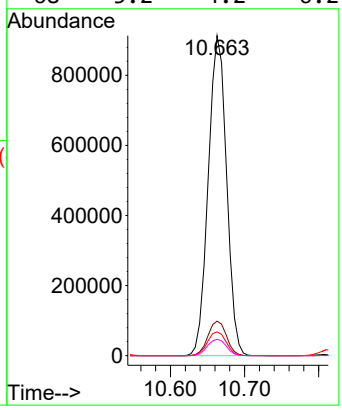


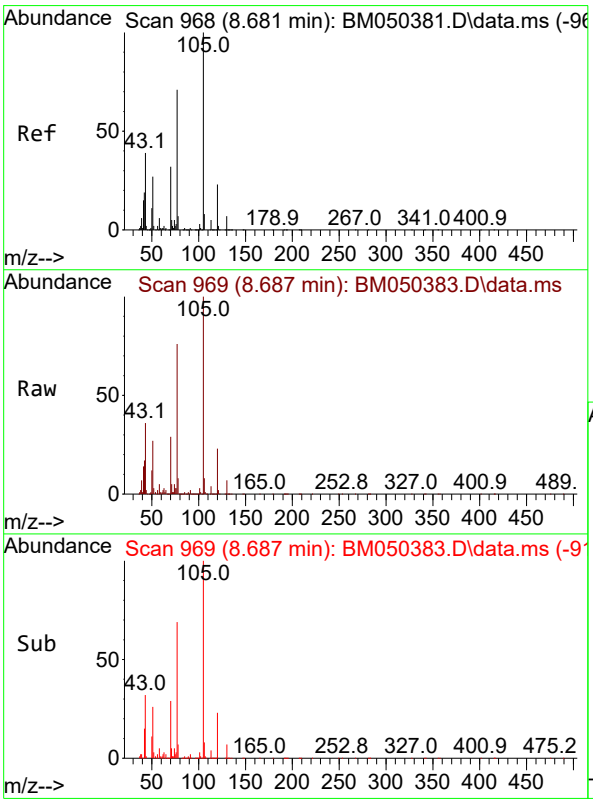
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 1566187

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.5	6.3	9.5
68	5.2	4.2	6.2

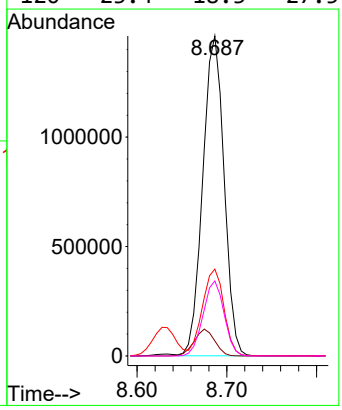


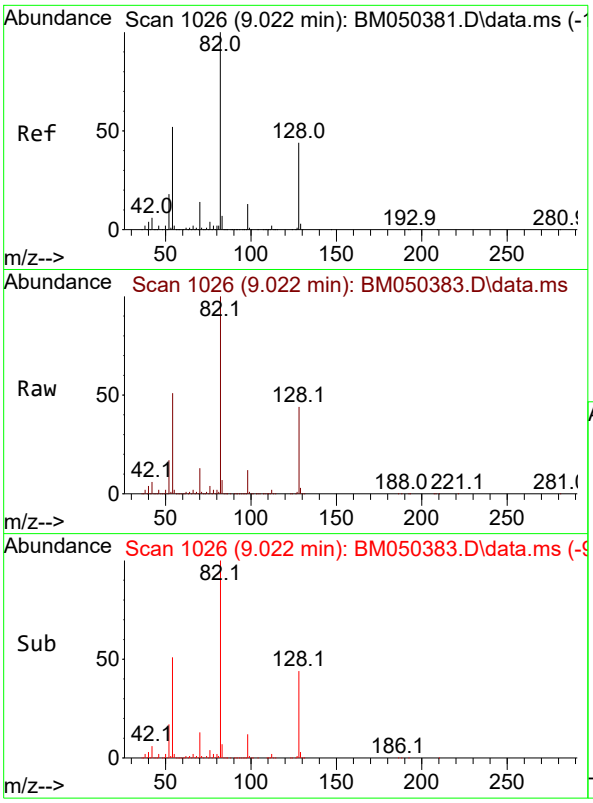


#22
Acetophenone
Concen: 61.517 ng
RT: 8.687 min Scan# 969
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:105 Resp: 2408904

Ion	Ratio	Lower	Upper
105	100		
71	4.7	4.4	6.6
51	27.2	23.0	34.6
120	23.4	18.3	27.5



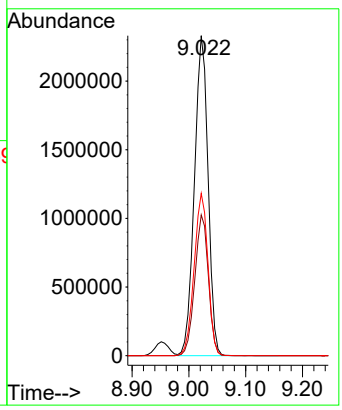


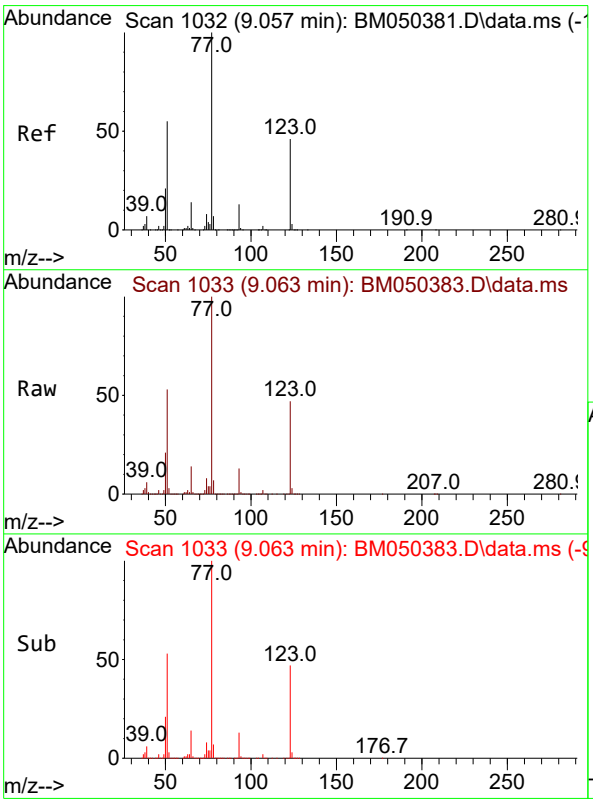
#23
Nitrobenzene-d5
Concen: 126.983 ng
RT: 9.022 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 3898203

Ion	Ratio	Lower	Upper
82	100		
128	44.0	35.2	52.8
54	50.7	41.5	62.3

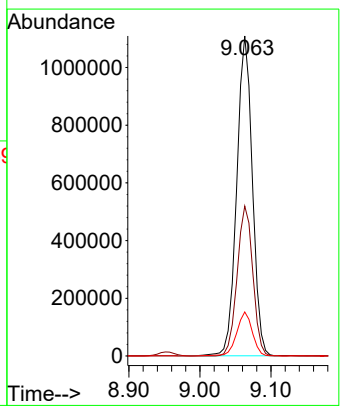


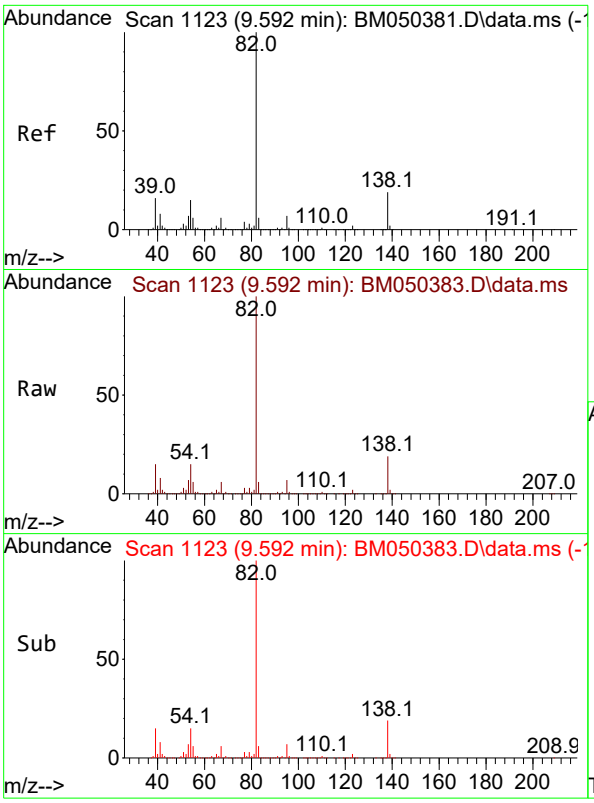


#24
Nitrobenzene
Concen: 62.165 ng
RT: 9.063 min Scan# 1033
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 77 Resp: 1702957

Ion	Ratio	Lower	Upper
77	100		
123	46.9	37.0	55.6
65	13.7	11.0	16.4



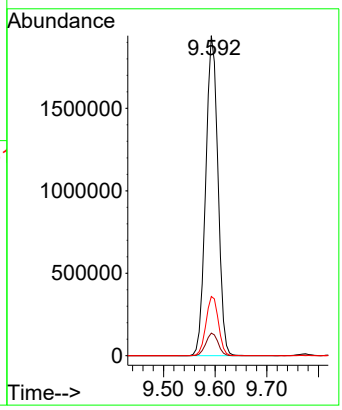


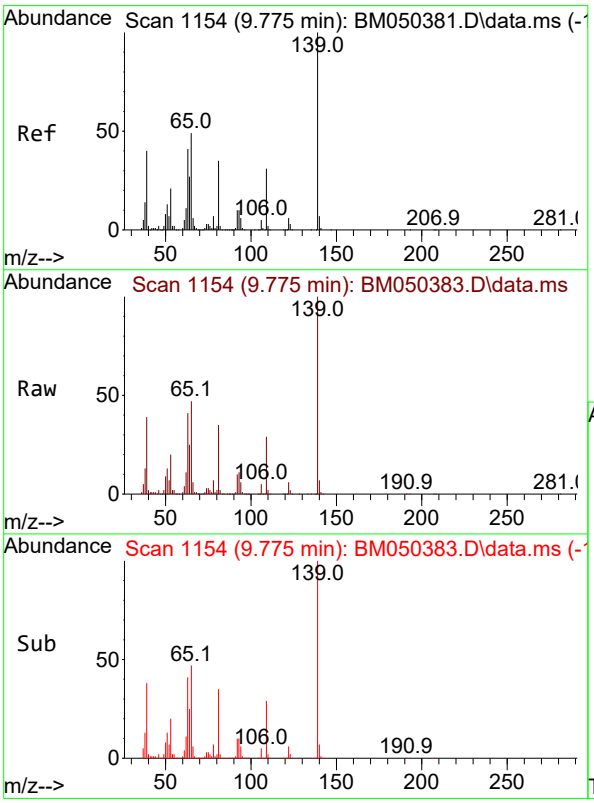
#25
Isophorone
Concen: 64.054 ng
RT: 9.592 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 3190767

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.6	8.4
138	18.5	15.3	22.9

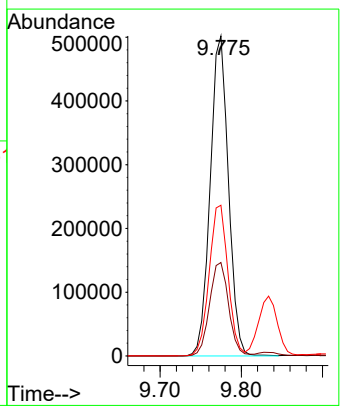


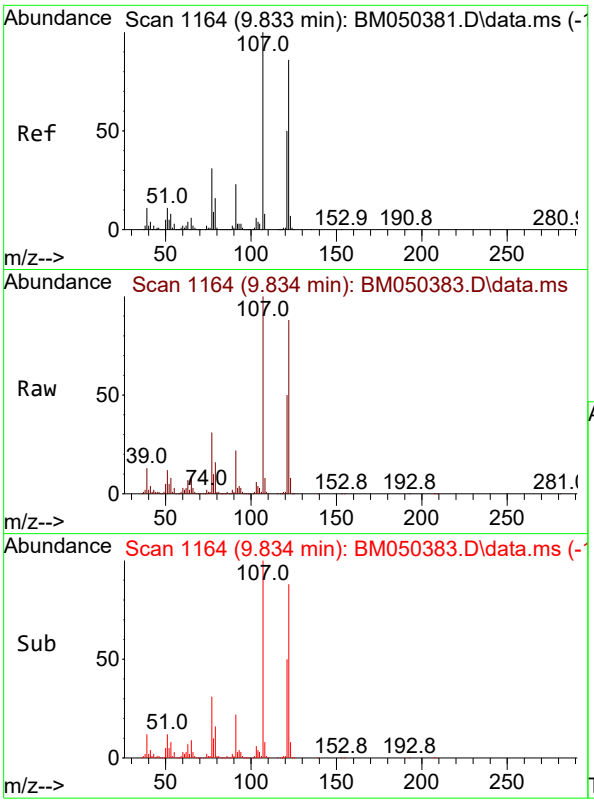


#26
2-Nitrophenol
Concen: 70.186 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:139 Resp: 783612

Ion	Ratio	Lower	Upper
139	100		
109	29.2	24.6	36.8
65	47.1	39.2	58.8



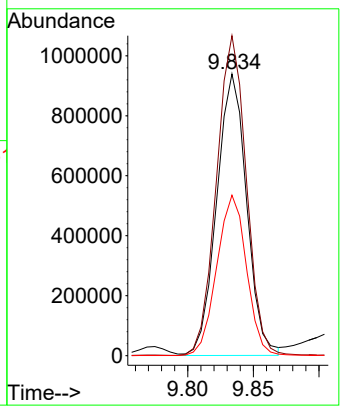


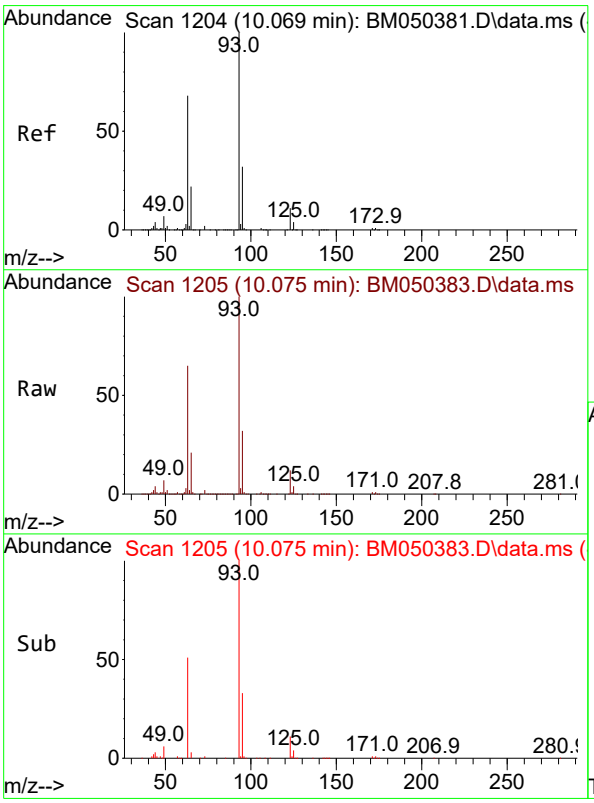
#27
2,4-Dimethylphenol
Concen: 62.749 ng
RT: 9.834 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 1490764

Ion	Ratio	Lower	Upper
122	100		
107	113.6	93.0	139.6
121	57.0	46.1	69.1

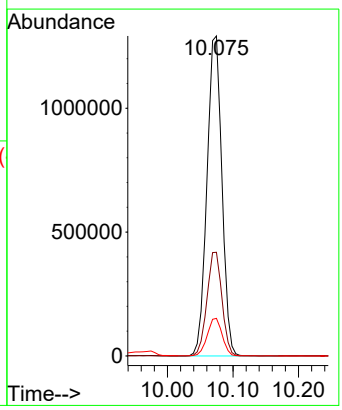


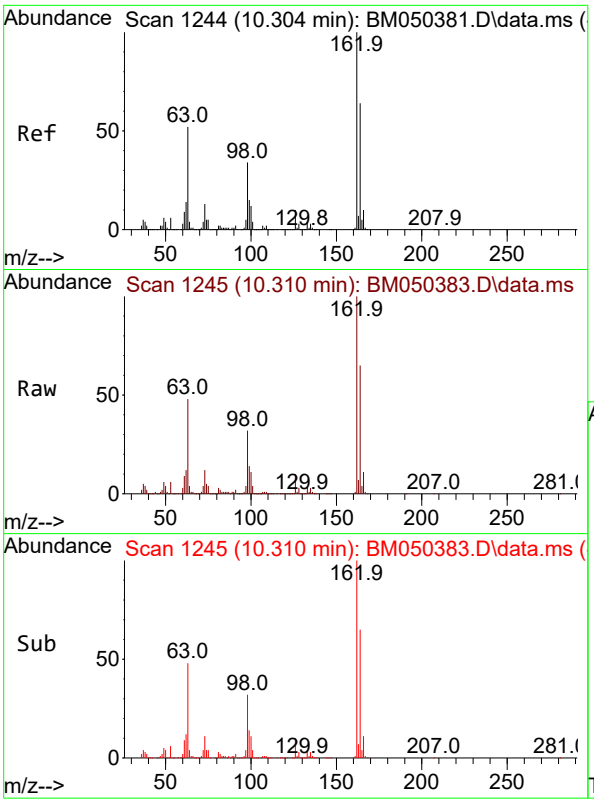


#28
bis(2-Chloroethoxy)methane
Concen: 62.070 ng
RT: 10.075 min Scan# 1205
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 93 Resp: 2048832

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.6
123	11.7	9.1	13.7



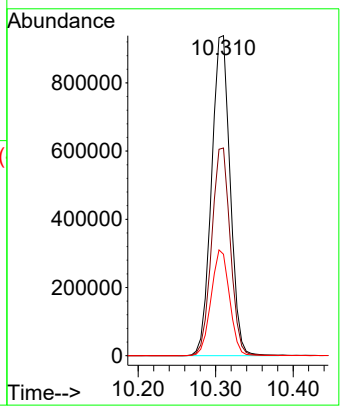


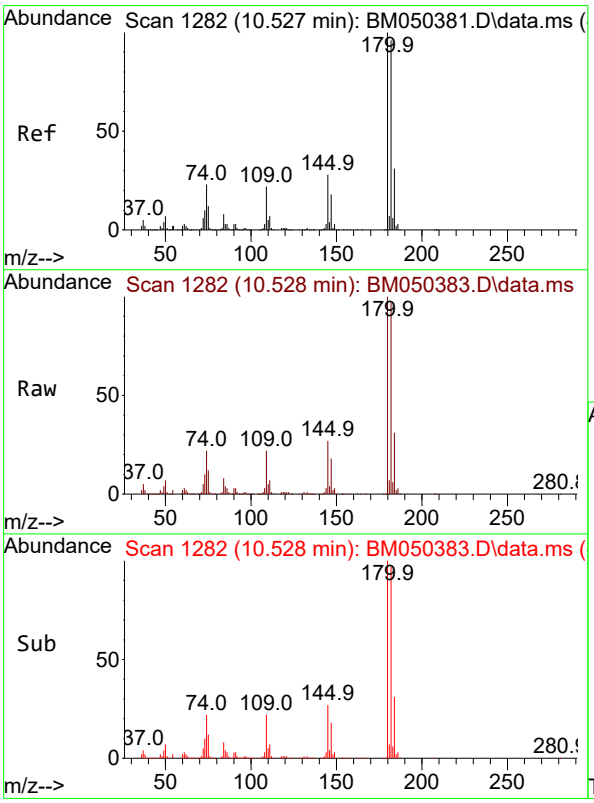
#29
2,4-Dichlorophenol
Concen: 64.353 ng
RT: 10.310 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1570701

Ion	Ratio	Lower	Upper
162	100		
164	64.9	43.7	83.7
98	31.7	13.7	53.7

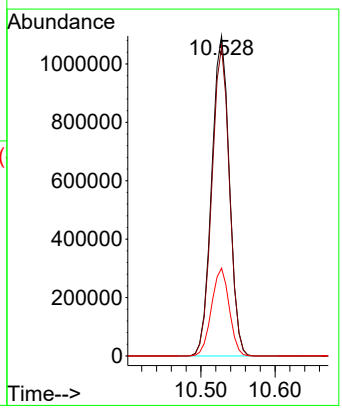


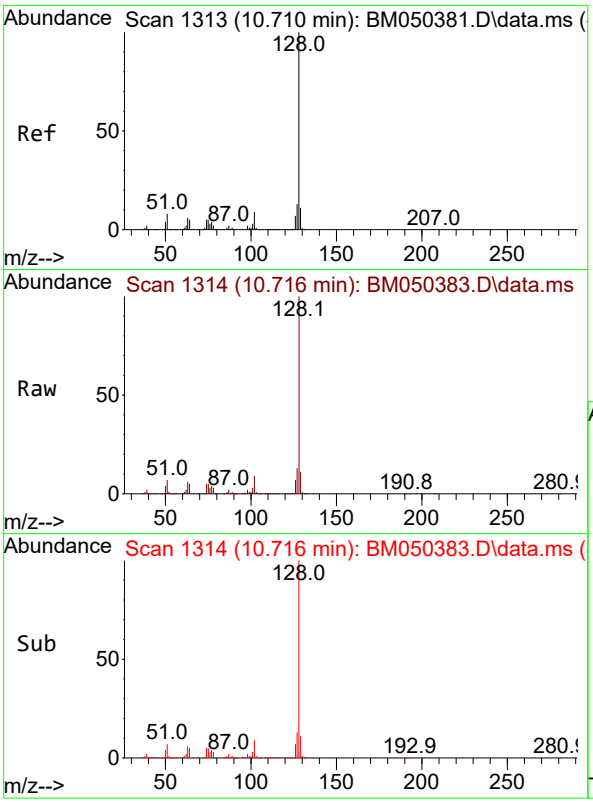


#30
1,2,4-Trichlorobenzene
Concen: 62.024 ng
RT: 10.528 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:180 Resp: 1810982

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.8	115.2
145	27.4	22.6	33.8



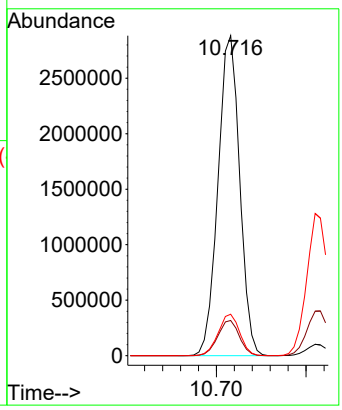


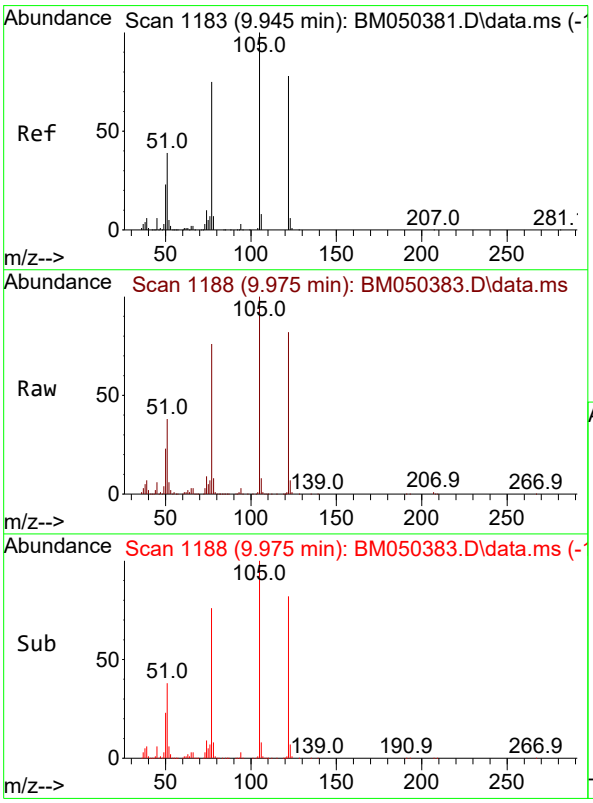
#31
Naphthalene
Concen: 60.775 ng
RT: 10.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 4834692

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.0	10.4	15.6

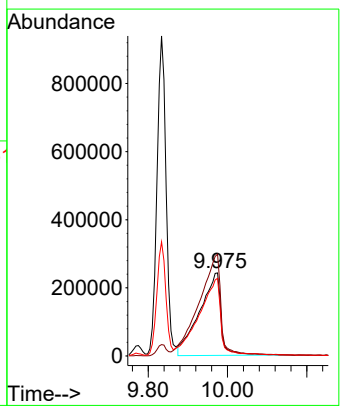


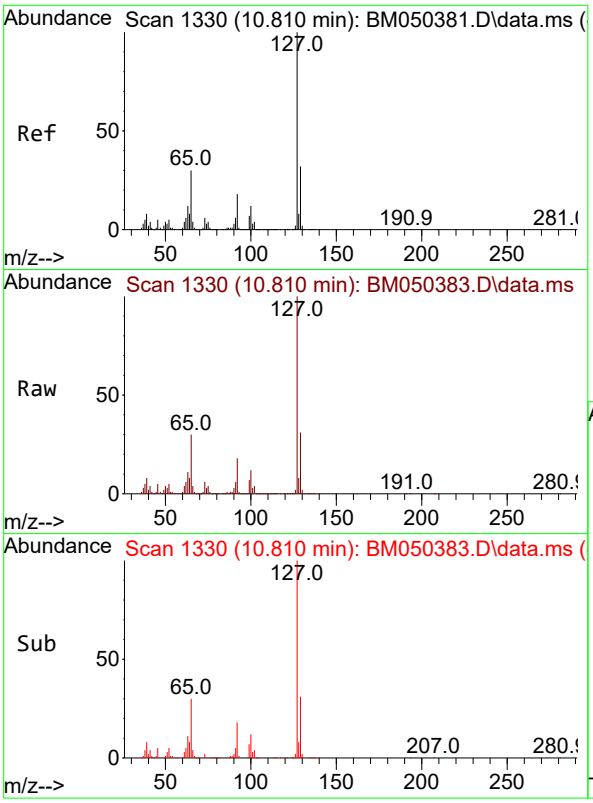


#32
Benzoic acid
Concen: 60.734 ng
RT: 9.975 min Scan# 1188
Delta R.T. 0.030 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:122 Resp: 912053

Ion	Ratio	Lower	Upper
122	100		
105	122.5	104.0	144.0
77	93.4	73.8	113.8



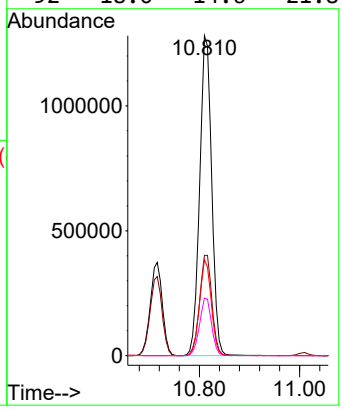


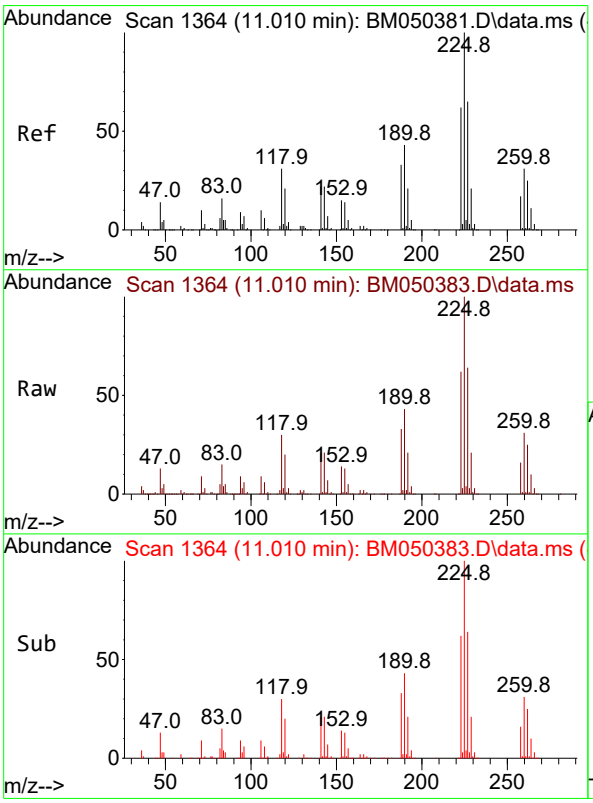
#33
4-Chloroaniline
Concen: 63.348 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 2130451

Ion	Ratio	Lower	Upper
127	100		
129	31.3	25.5	38.3
65	30.0	23.9	35.9
92	18.0	14.6	21.8

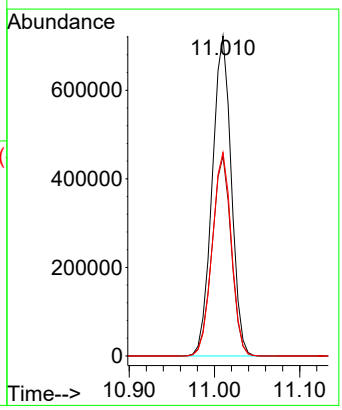


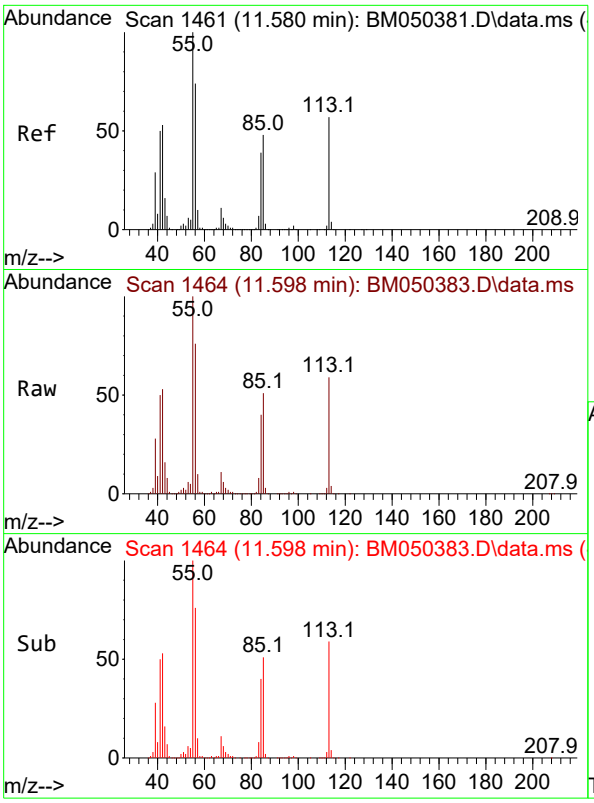


#34
Hexachlorobutadiene
Concen: 63.032 ng
RT: 11.010 min Scan# 1364
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:225 Resp: 1123283

Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.7	74.5
227	63.6	52.1	78.1



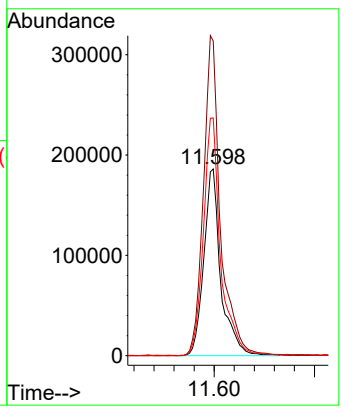


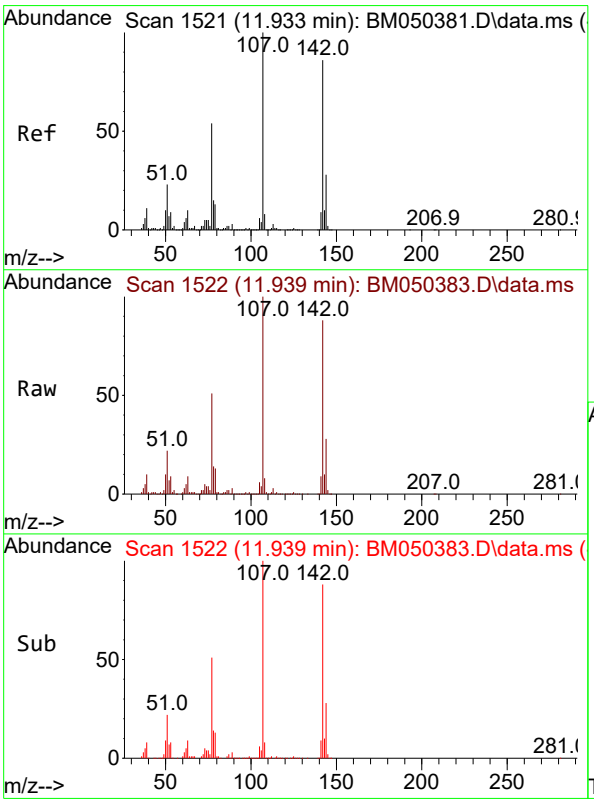
#35
Caprolactam
Concen: 65.768 ng
RT: 11.598 min Scan# 14
Delta R.T. 0.018 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 438205

Ion	Ratio	Lower	Upper
113	100		
55	168.5	157.2	197.2
56	127.3	111.7	151.7

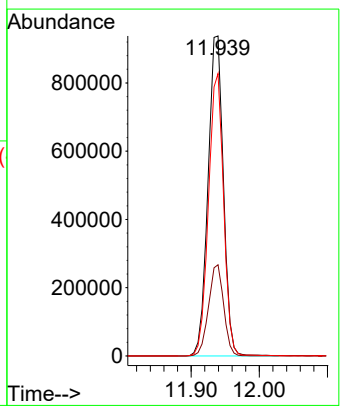


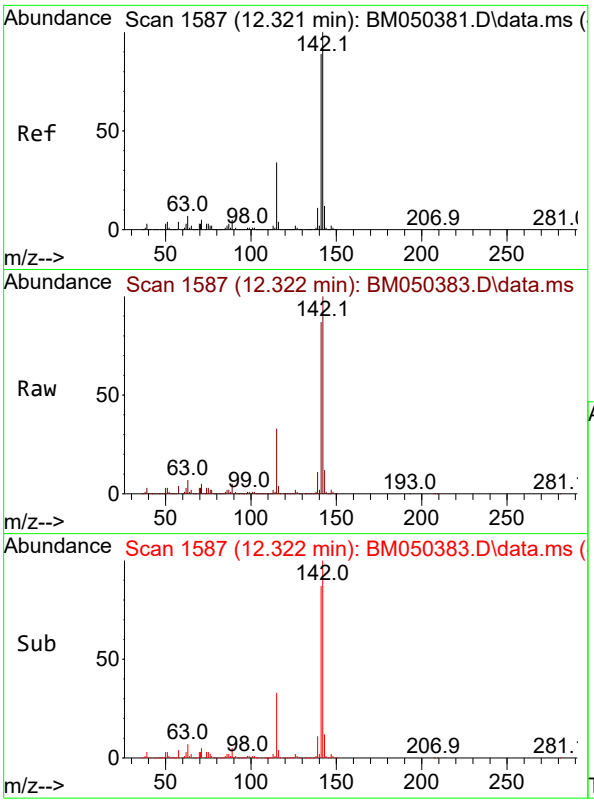


#36
4-Chloro-3-methylphenol
Concen: 64.612 ng
RT: 11.939 min Scan# 1522
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:107 Resp: 1472646

Ion	Ratio	Lower	Upper
107	100		
144	28.5	22.2	33.4
142	88.2	68.7	103.1



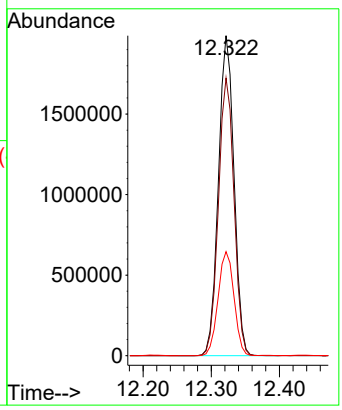


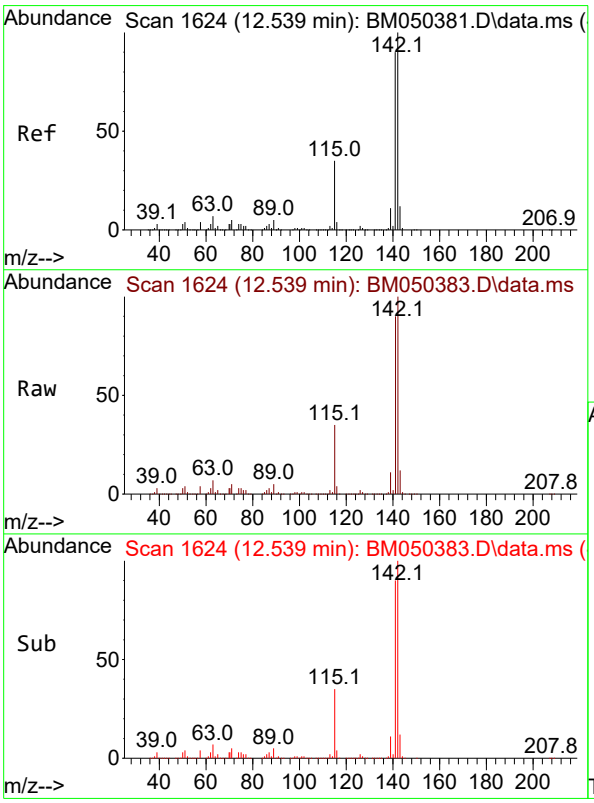
#37
2-Methylnaphthalene
Concen: 62.784 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 3153595

Ion	Ratio	Lower	Upper
142	100		
141	86.8	70.8	106.2
115	32.5	27.0	40.4

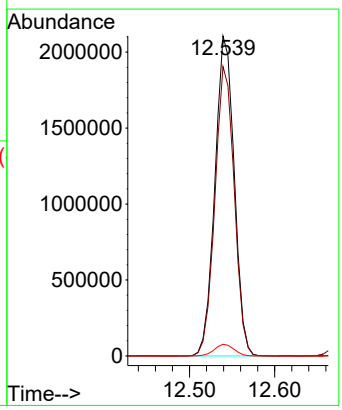


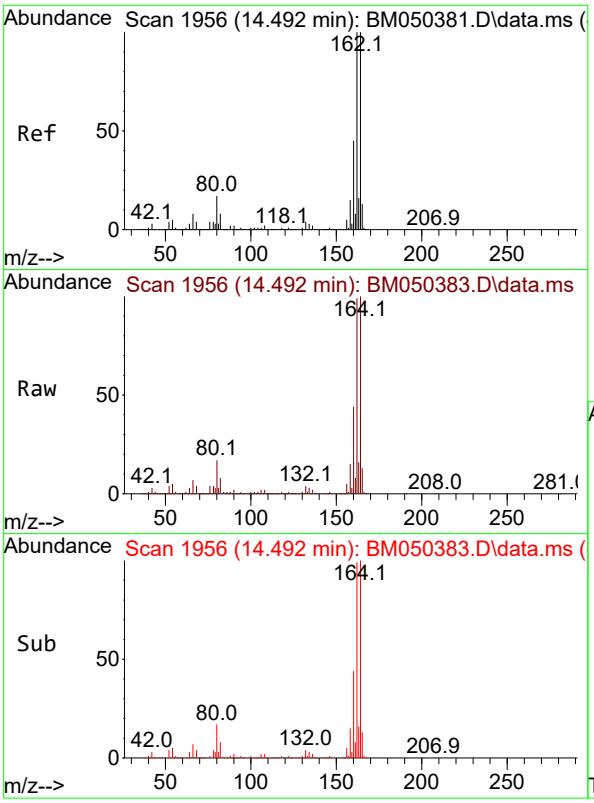


#38
1-Methylnaphthalene
Concen: 62.500 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:142 Resp: 3322331

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.9	107.9
116	3.6	3.0	4.6



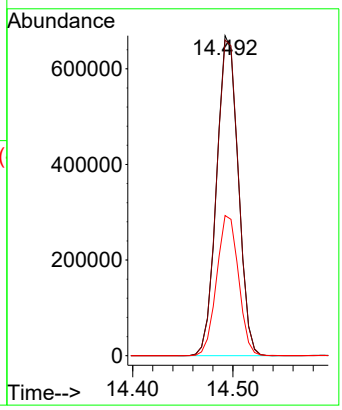


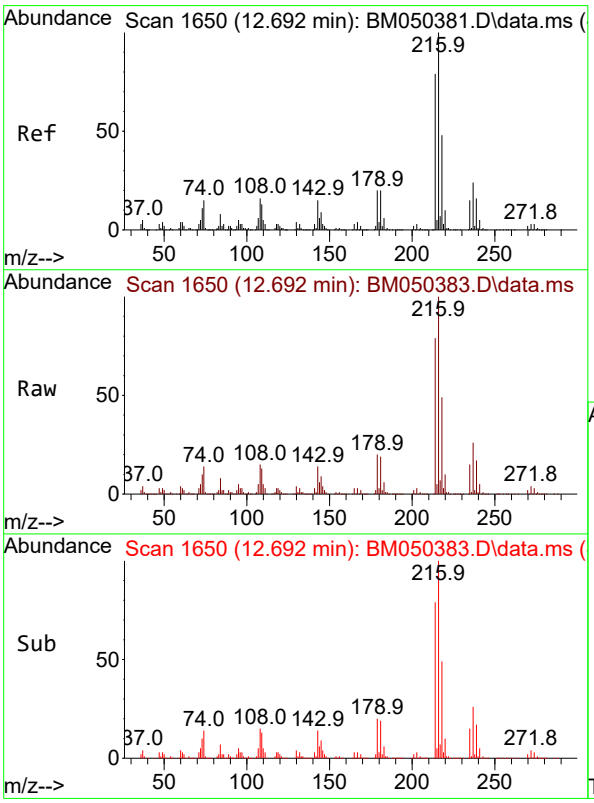
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 998713

Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.9	119.9
160	43.8	36.2	54.4

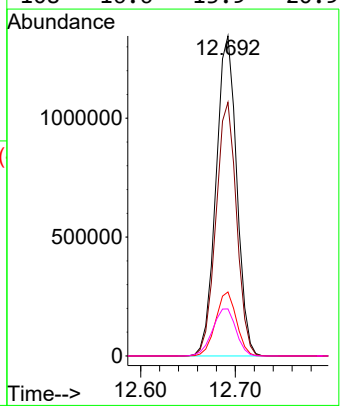


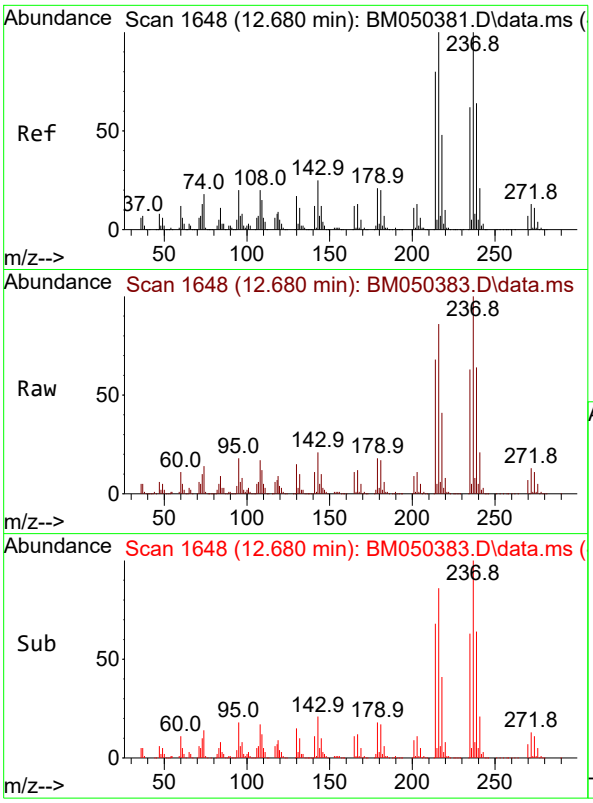


#40
1,2,4,5-Tetrachlorobenzene
Concen: 64.436 ng
RT: 12.692 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:216 Resp: 2046472

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.3	94.9
179	20.1	16.4	24.6
108	16.6	13.9	20.9



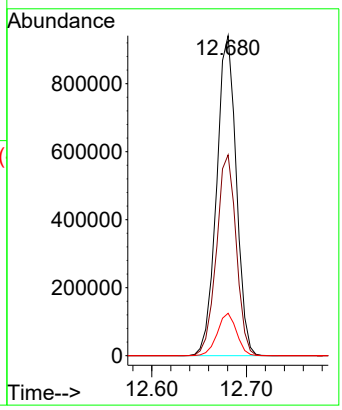


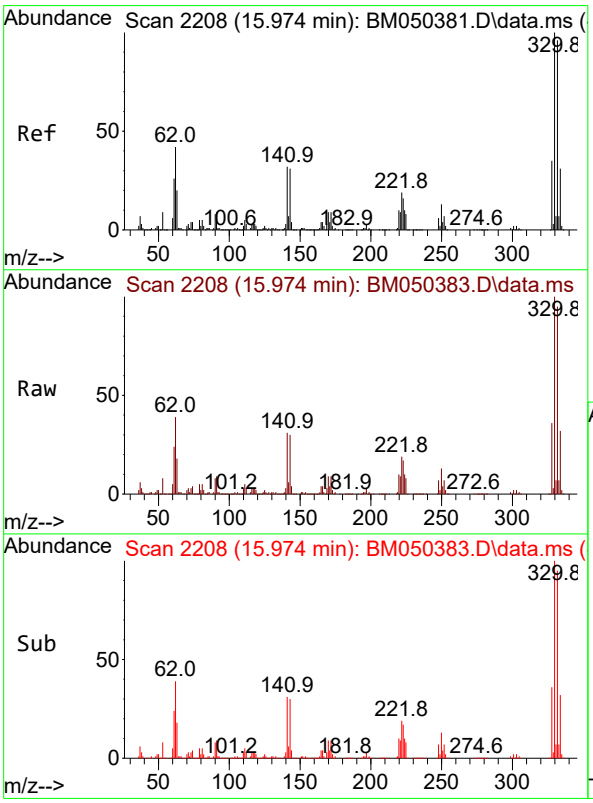
#41
Hexachlorocyclopentadiene
Concen: 66.942 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 1359023

Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.3	82.3
272	13.3	0.0	33.0

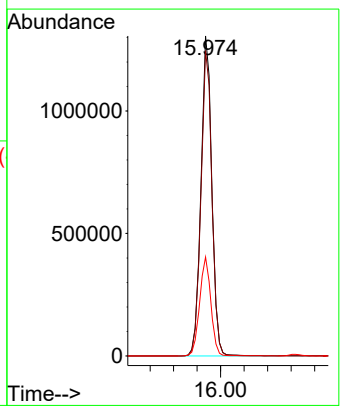


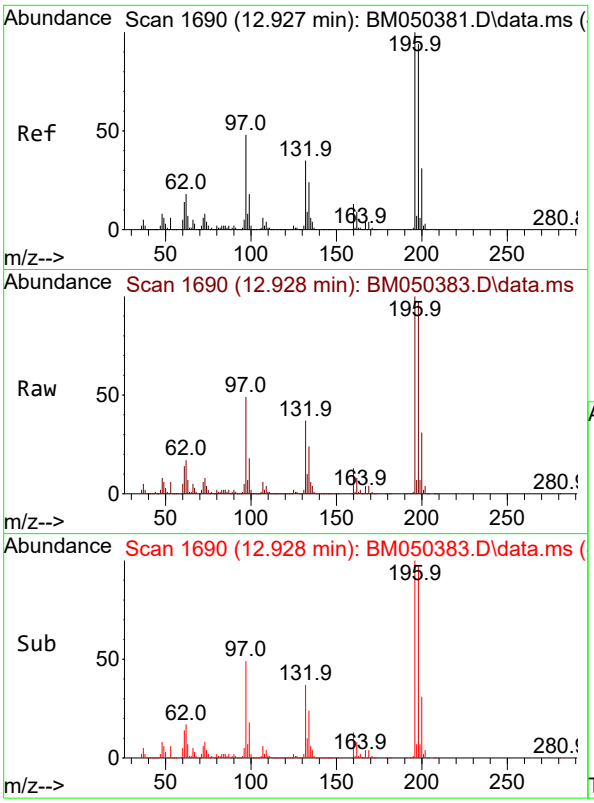


#42
2,4,6-Tribromophenol
Concen: 138.460 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:330 Resp: 1680132

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.9	115.3
141	31.9	27.4	41.0



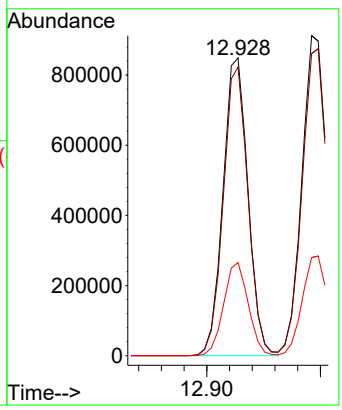


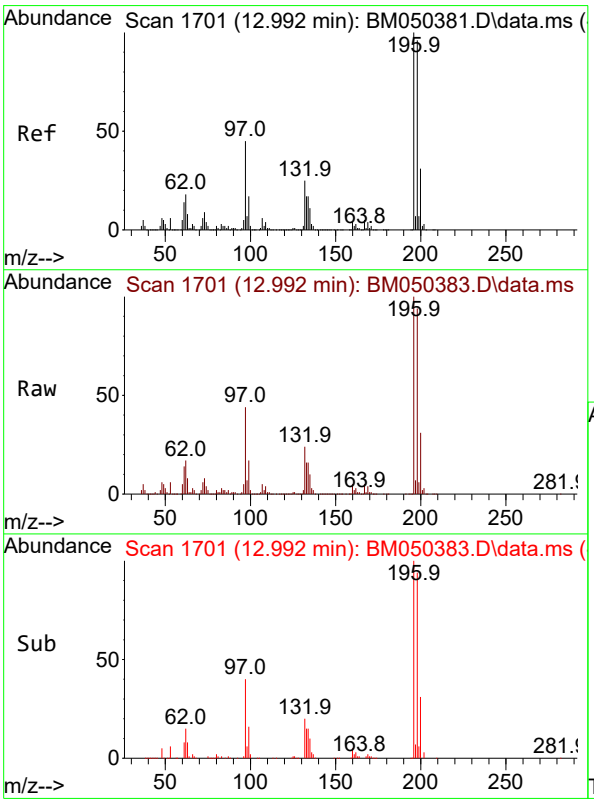
#43
2,4,6-Trichlorophenol
Concen: 66.483 ng
RT: 12.928 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 1299719

Ion	Ratio	Lower	Upper
196	100		
198	96.8	75.1	112.7
200	31.3	24.6	37.0

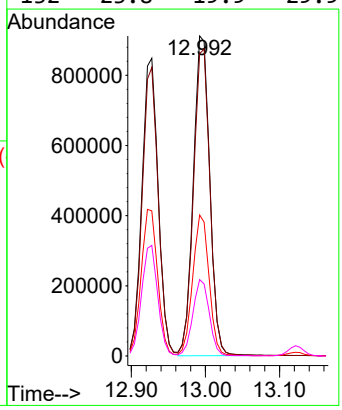


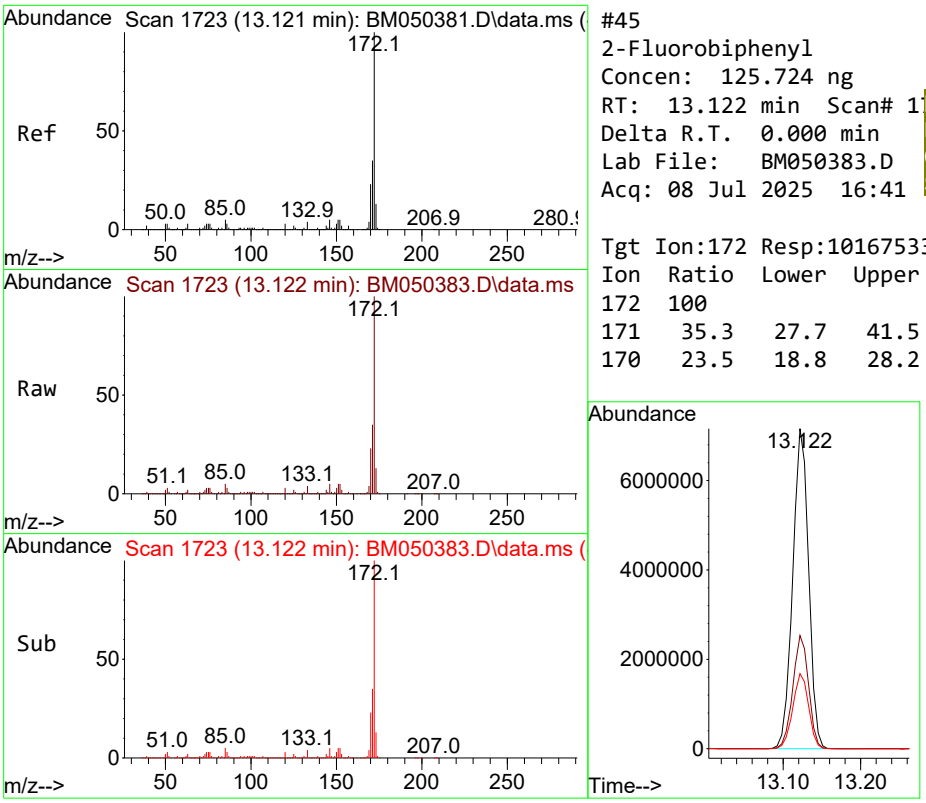


#44
2,4,5-Trichlorophenol
Concen: 65.913 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:196 Resp: 1407280

Ion	Ratio	Lower	Upper
196	100		
198	94.5	77.2	115.8
97	44.0	36.2	54.4
132	23.8	19.9	29.9



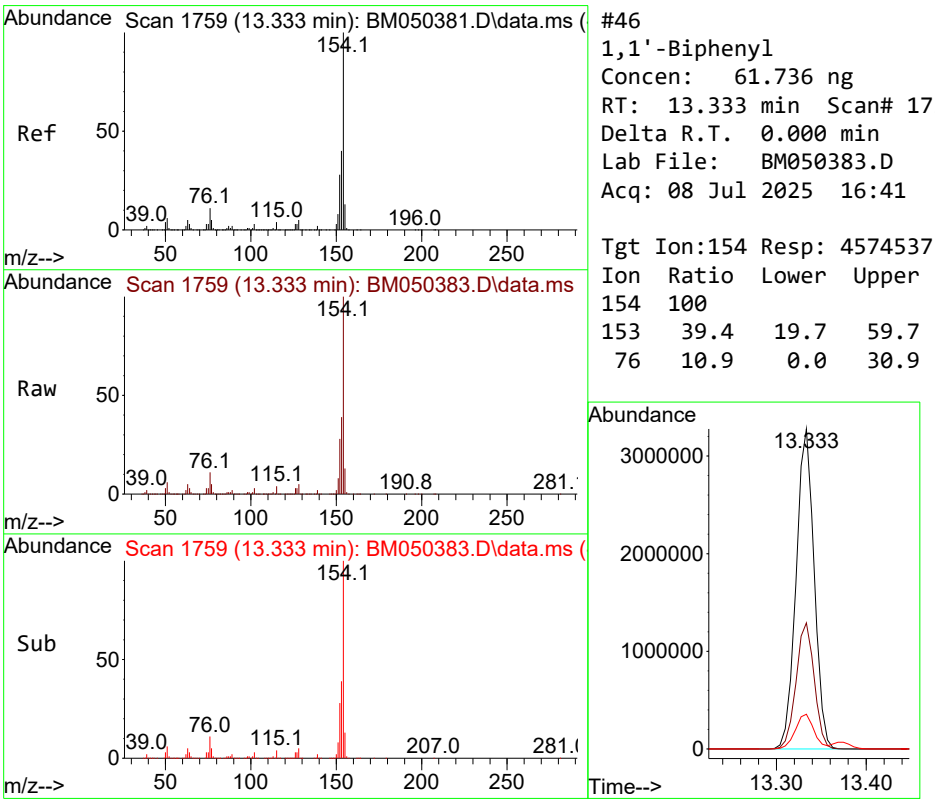


#45
2-Fluorobiphenyl
Concen: 125.724 ng
RT: 13.122 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp:10167533

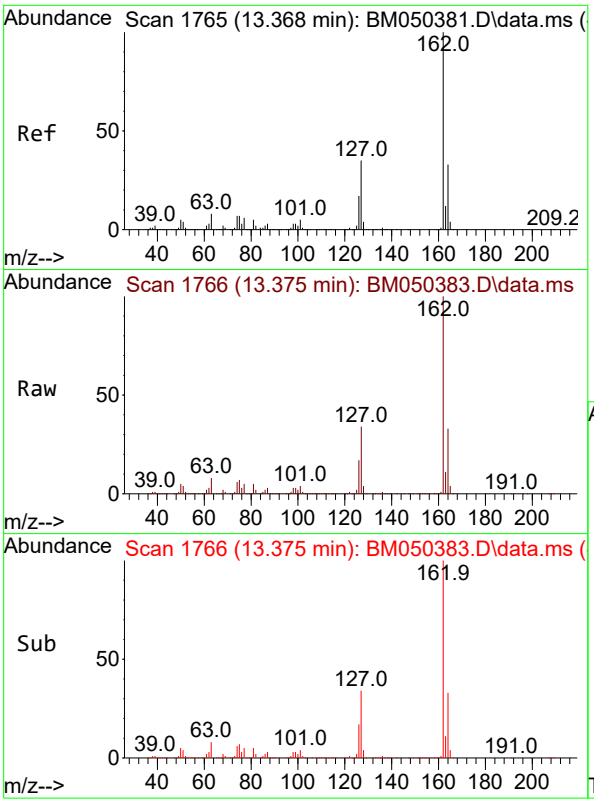
Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.7	41.5
170	23.5	18.8	28.2



#46
1,1'-Biphenyl
Concen: 61.736 ng
RT: 13.333 min Scan# 1759
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:154 Resp: 4574537

Ion	Ratio	Lower	Upper
154	100		
153	39.4	19.7	59.7
76	10.9	0.0	30.9

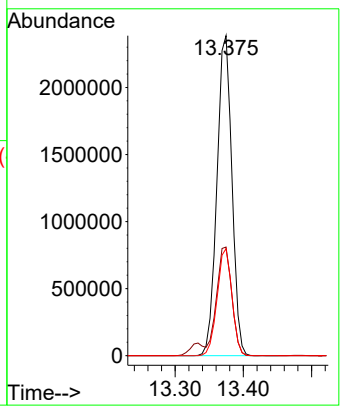


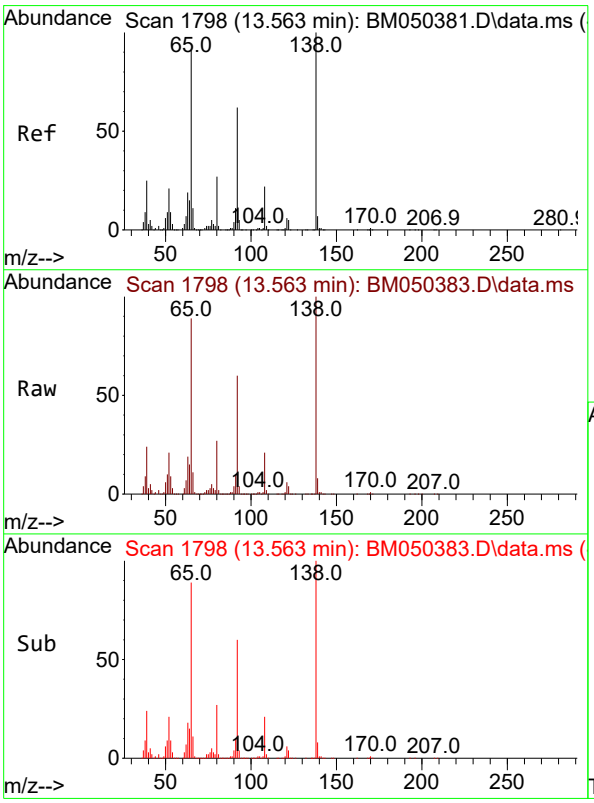
#47
2-Chloronaphthalene
Concen: 61.699 ng
RT: 13.375 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 3645124

Ion	Ratio	Lower	Upper
162	100		
127	34.0	28.3	42.5
164	33.4	26.6	40.0

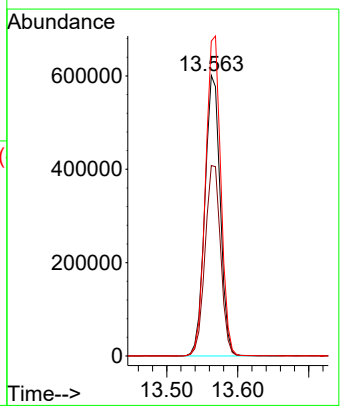


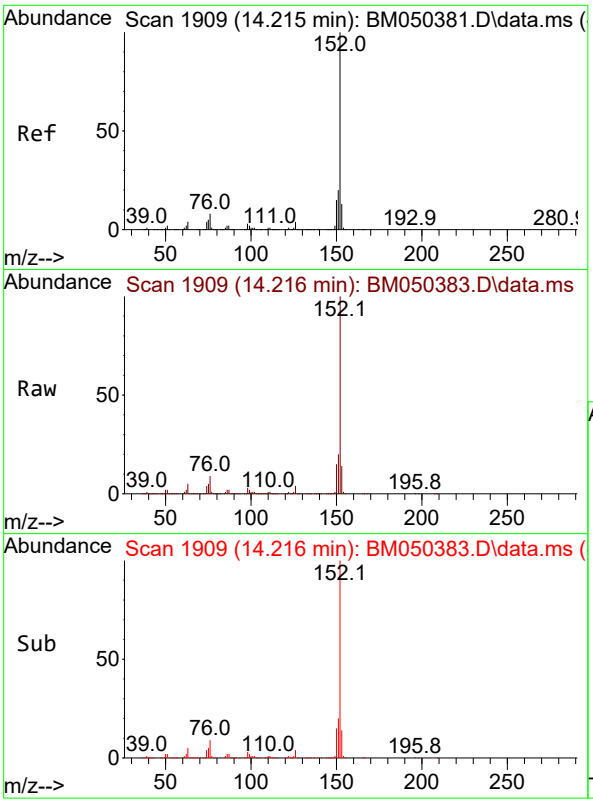


#48
2-Nitroaniline
Concen: 68.554 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion: 65 Resp: 904021

Ion	Ratio	Lower	Upper
65	100		
92	67.9	54.3	81.5
138	112.3	87.8	131.6



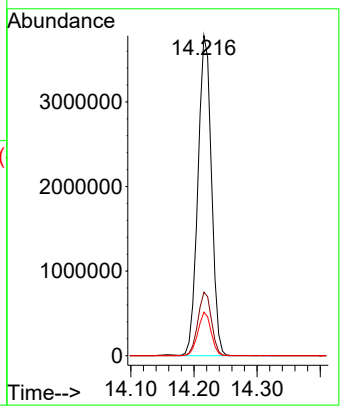


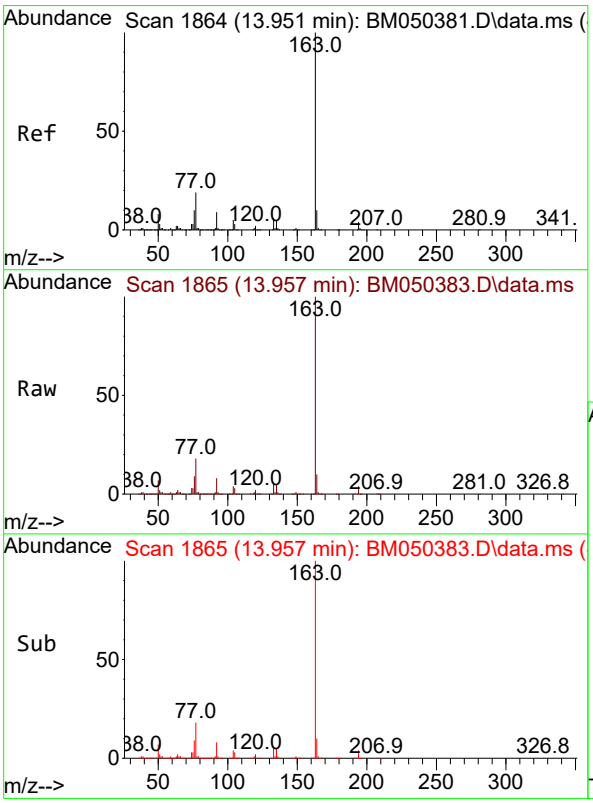
#49
Acenaphthylene
Concen: 62.931 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 5618754

Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5
153	13.6	10.6	15.8

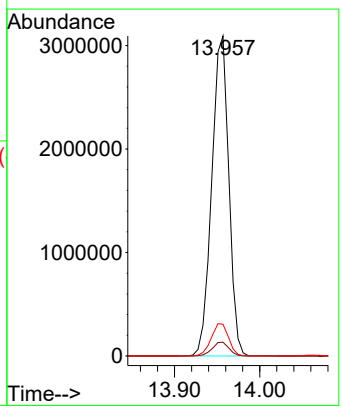


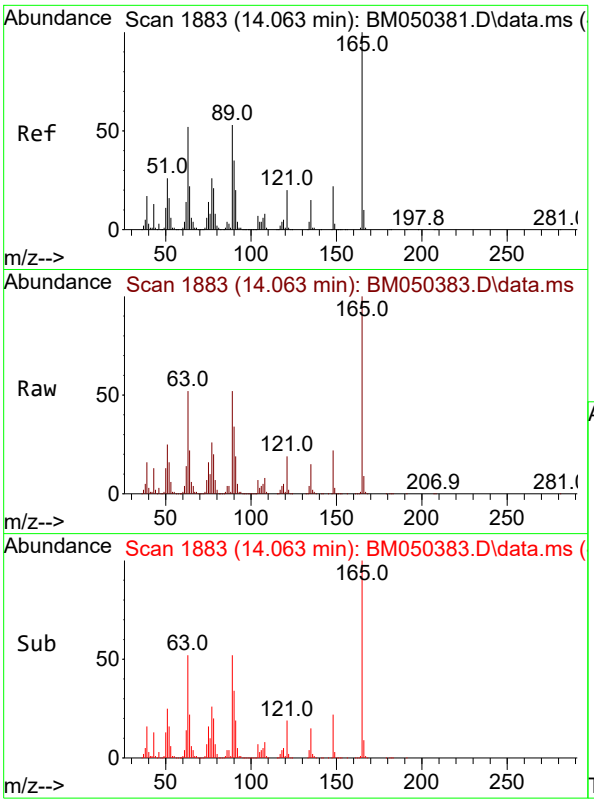


#50
Dimethylphthalate
Concen: 62.407 ng
RT: 13.957 min Scan# 1865
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:163 Resp: 4291046

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	9.9	8.2	12.2



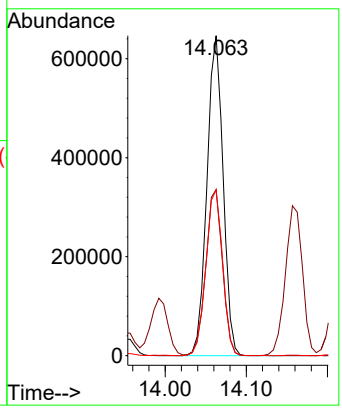


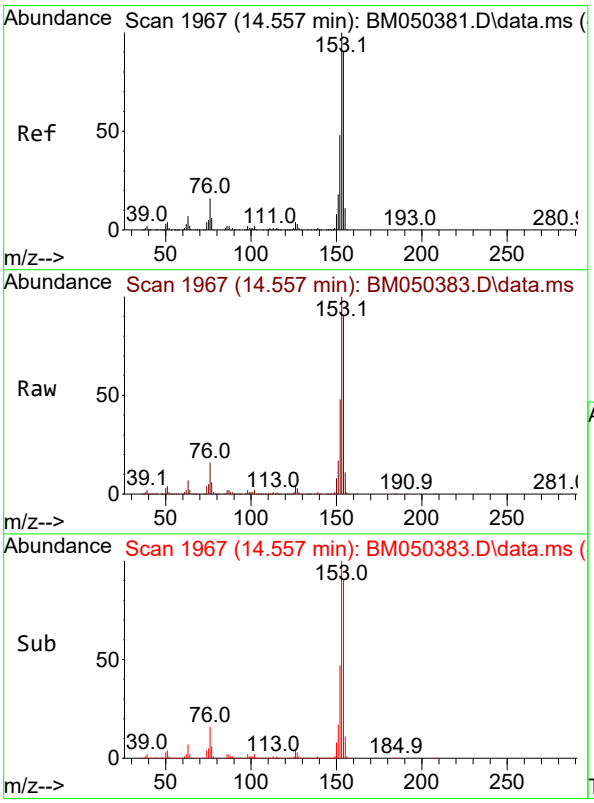
#51
2,6-Dinitrotoluene
Concen: 67.510 ng
RT: 14.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 891260

Ion	Ratio	Lower	Upper
165	100		
63	51.9	42.4	63.6
89	51.8	42.2	63.2

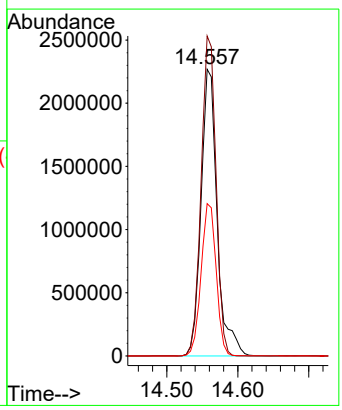


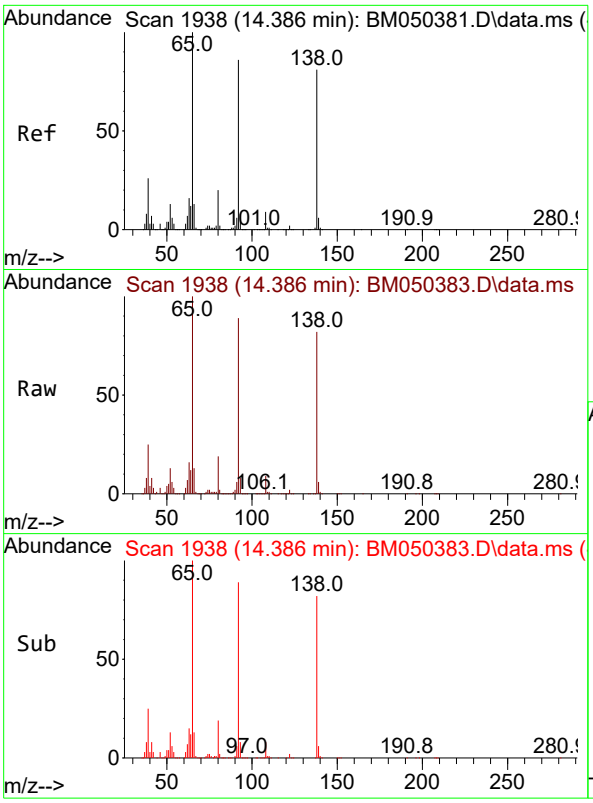


#52
Acenaphthene
Concen: 63.105 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:154 Resp: 3582059

Ion	Ratio	Lower	Upper
154	100		
153	111.6	89.2	133.8
152	53.1	42.6	64.0



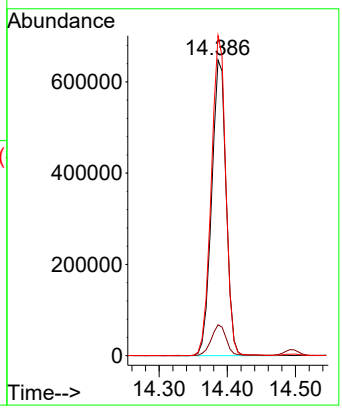


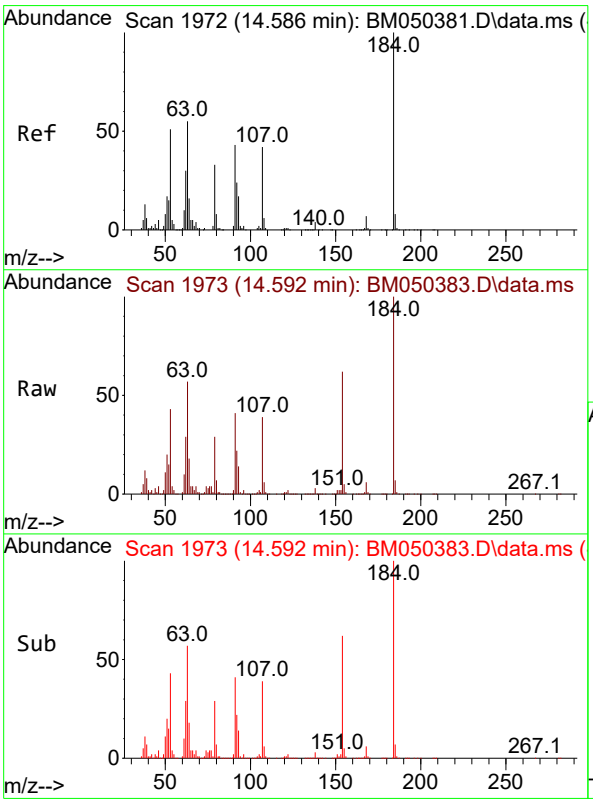
#53
3-Nitroaniline
Concen: 68.179 ng
RT: 14.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 957239

Ion	Ratio	Lower	Upper
138	100		
108	10.5	8.8	13.2
92	108.2	85.0	127.6

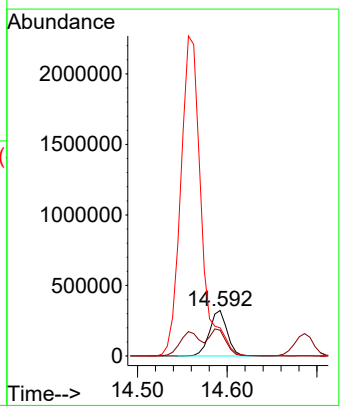


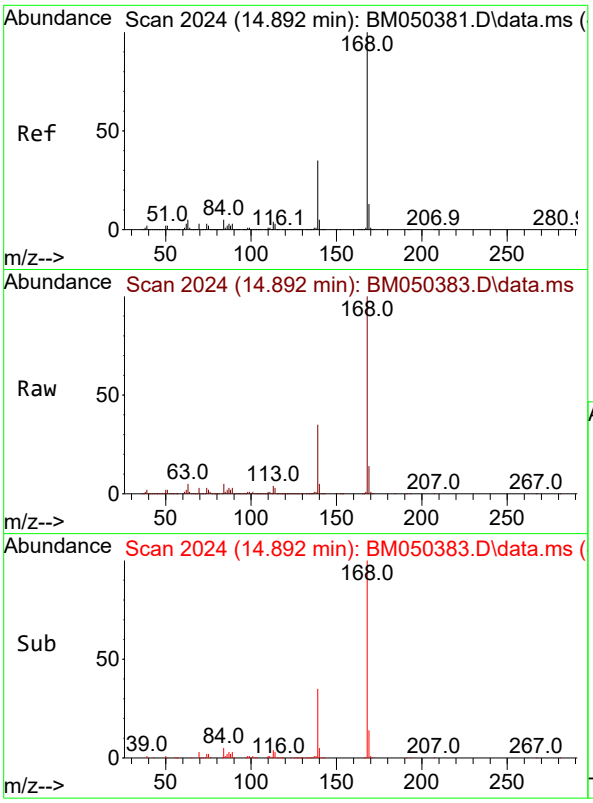


#54
2,4-Dinitrophenol
Concen: 61.898 ng
RT: 14.592 min Scan# 1973
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:184 Resp: 439445

Ion	Ratio	Lower	Upper
184	100		
63	56.9	53.4	80.0
154	62.1	61.6	92.4



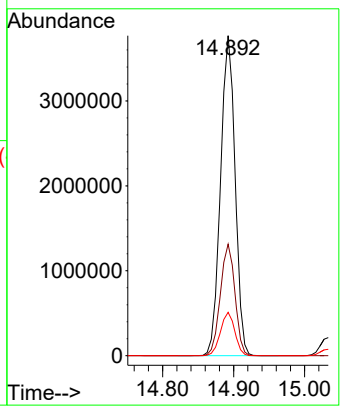


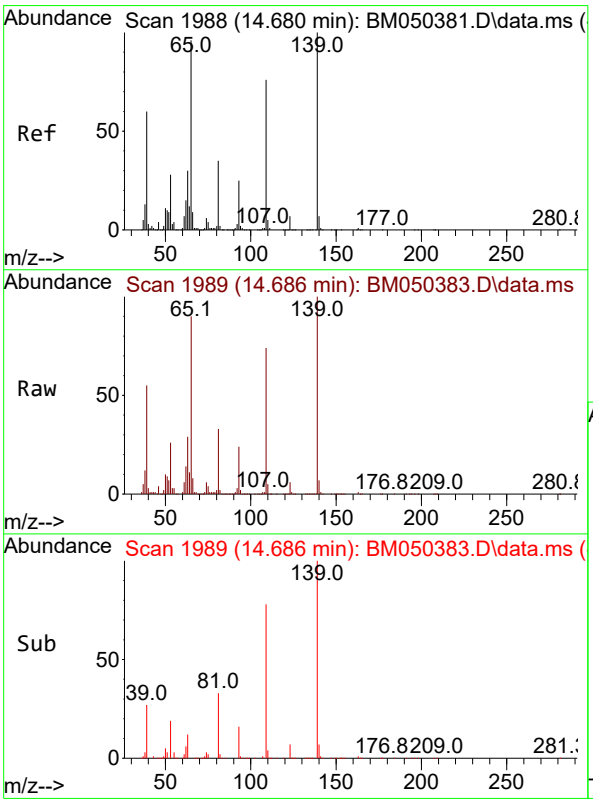
#55
Dibenzofuran
Concen: 61.102 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 5344109

Ion	Ratio	Lower	Upper
168	100		
139	34.8	27.7	41.5
169	13.5	10.7	16.1

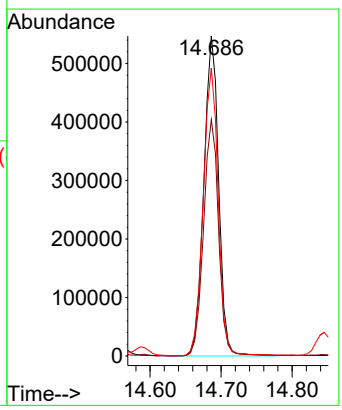


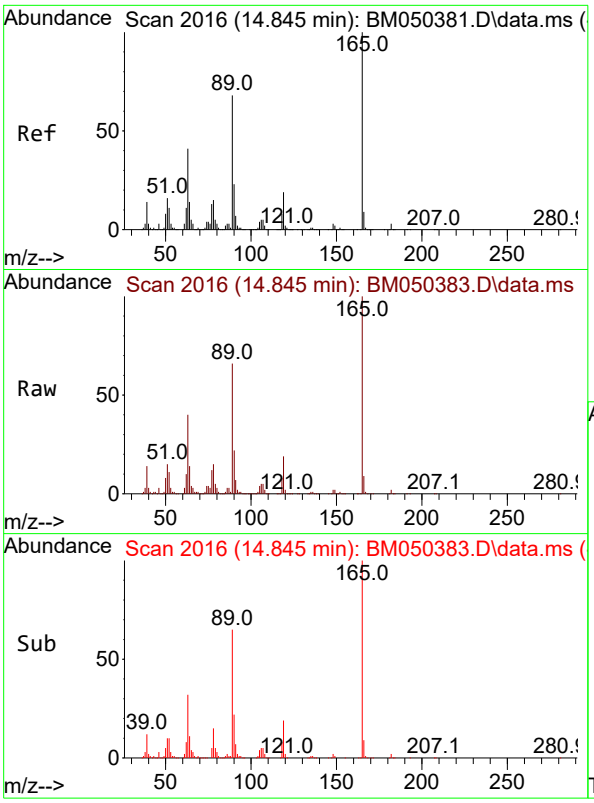


#56
4-Nitrophenol
Concen: 65.804 ng
RT: 14.686 min Scan# 1989
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:139 Resp: 794516

Ion	Ratio	Lower	Upper
139	100		
109	73.8	56.5	96.5
65	89.9	76.4	116.4



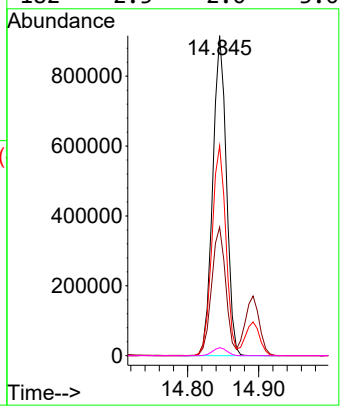


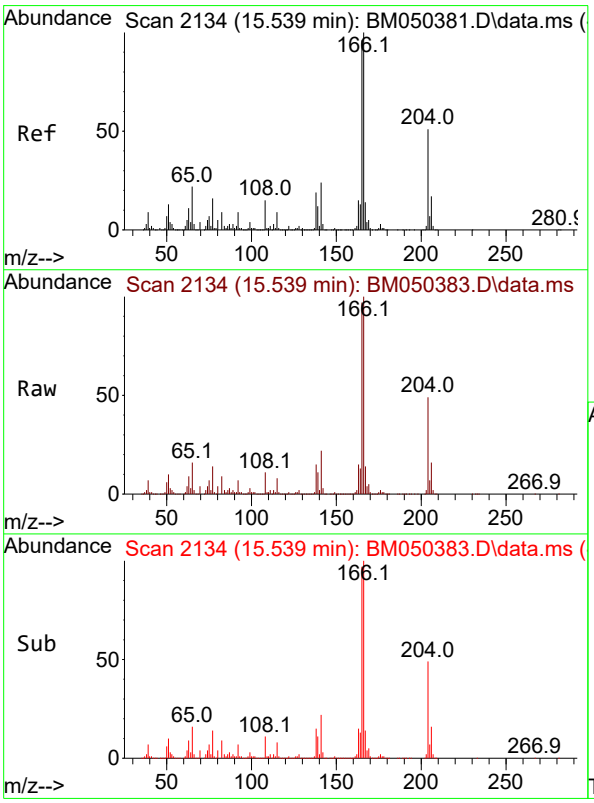
#57
2,4-Dinitrotoluene
Concen: 60.887 ng
RT: 14.845 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 1218665

Ion	Ratio	Lower	Upper
165	100		
63	40.2	32.5	48.7
89	65.6	54.0	81.0
182	2.5	2.0	3.0

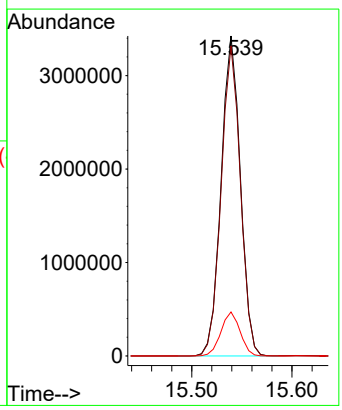


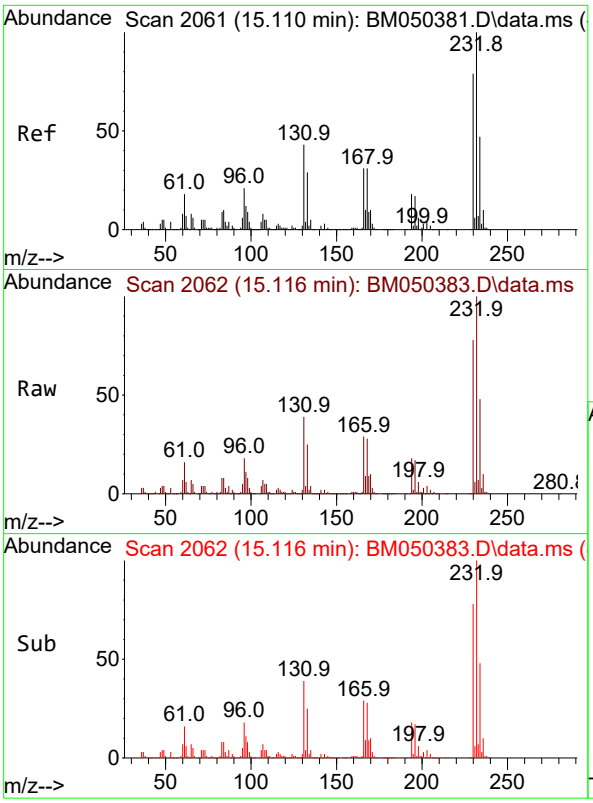


#58
Fluorene
Concen: 63.309 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:166 Resp: 4560797

Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.0	115.6
167	13.8	10.9	16.3



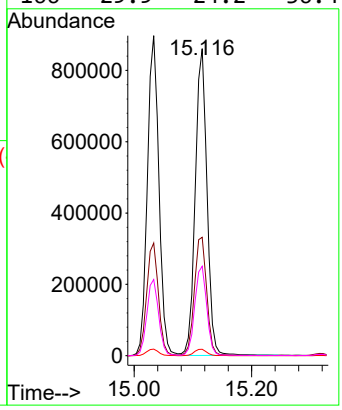


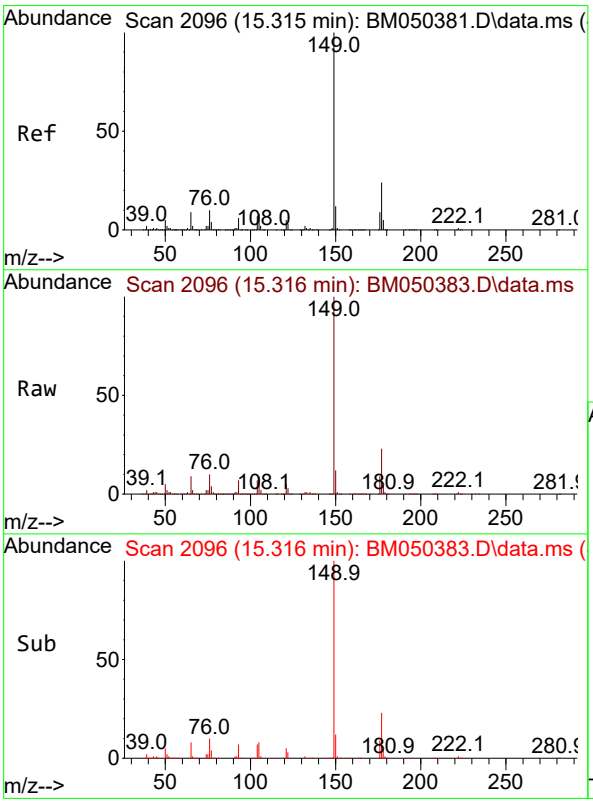
#59
2,3,4,6-Tetrachlorophenol
Concen: 66.202 ng
RT: 15.116 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 1189838

Ion	Ratio	Lower	Upper
232	100		
131	40.7	33.4	50.0
130	2.2	1.8	2.6
166	29.9	24.2	36.4

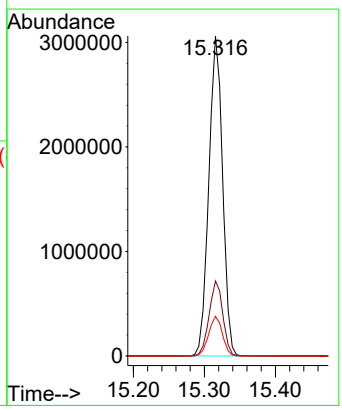


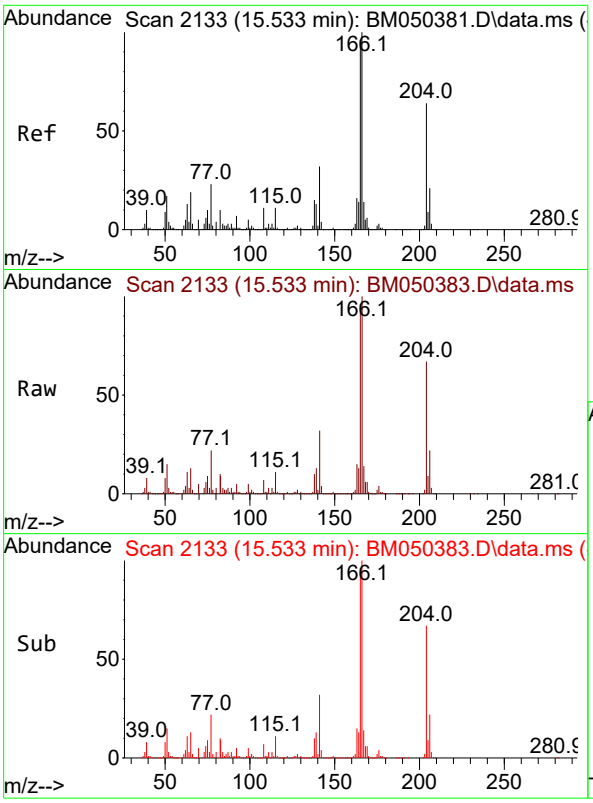


#60
Diethylphthalate
Concen: 62.882 ng
RT: 15.316 min Scan# 2096
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:149 Resp: 4130183

Ion	Ratio	Lower	Upper
149	100		
177	23.5	18.8	28.2
150	12.4	9.8	14.8



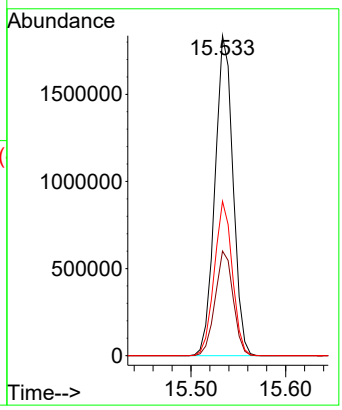


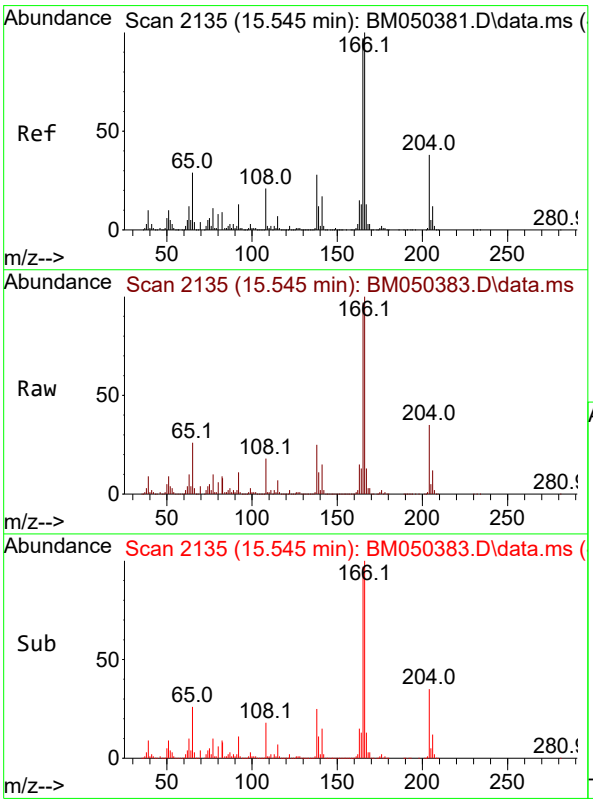
#61
4-Chlorophenyl-phenylether
Concen: 64.533 ng
RT: 15.533 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 2430909

Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.6	39.8
141	48.2	39.9	59.9

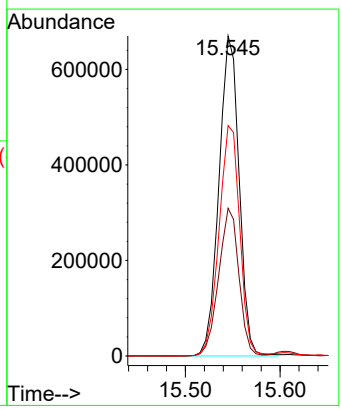


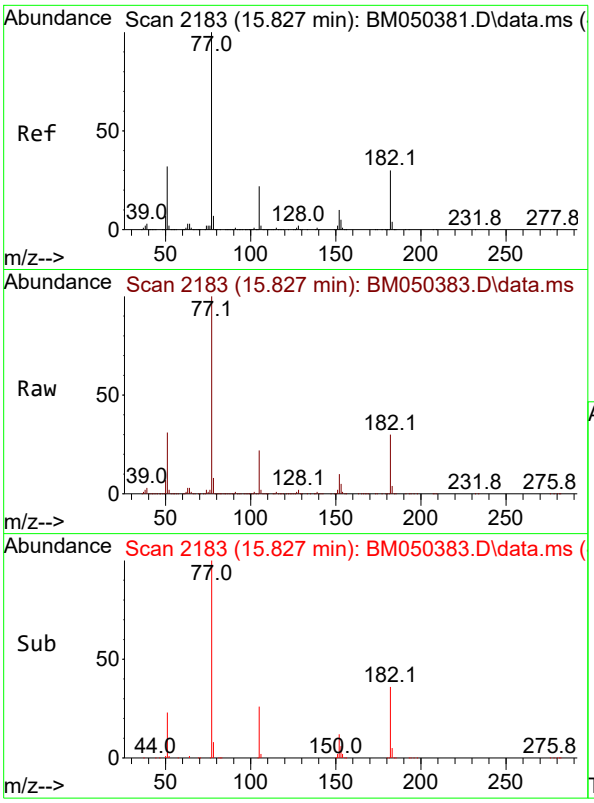


#62
4-Nitroaniline
Concen: 60.686 ng
RT: 15.545 min Scan# 2135
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:138 Resp: 991212

Ion	Ratio	Lower	Upper
138	100		
92	46.2	24.5	64.5
108	72.0	52.5	92.5



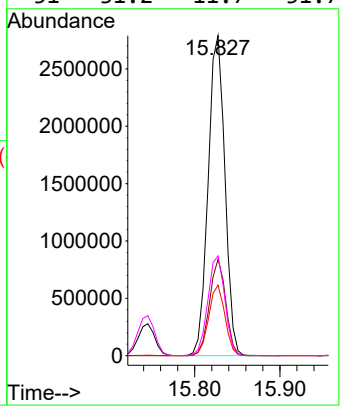


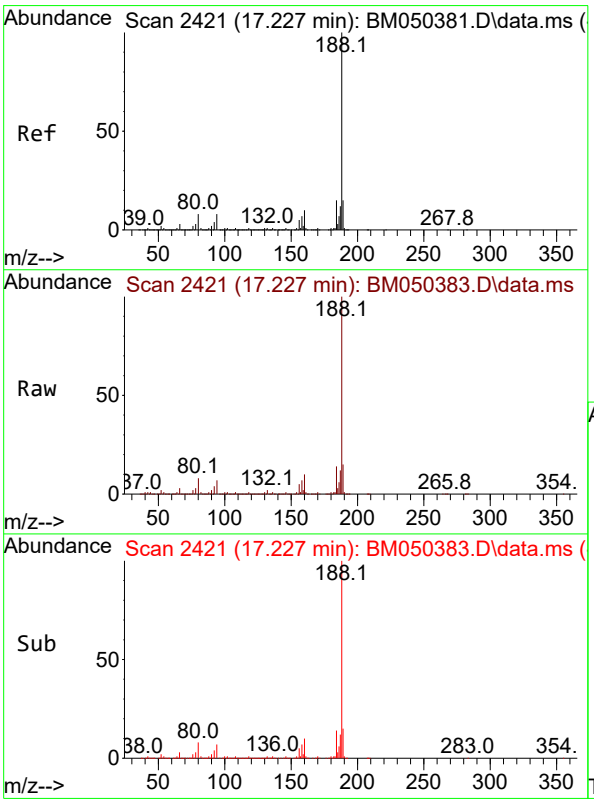
#63
Azobenzene
Concen: 63.206 ng
RT: 15.827 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 3812033

Ion	Ratio	Lower	Upper
77	100		
182	30.1	10.0	50.0
105	22.0	2.0	42.0
51	31.2	11.7	51.7

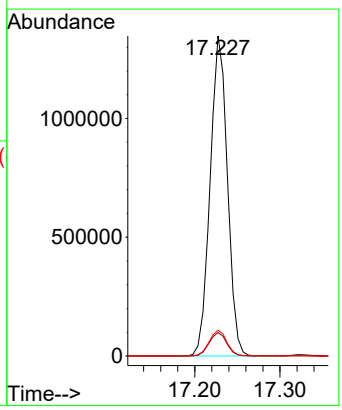


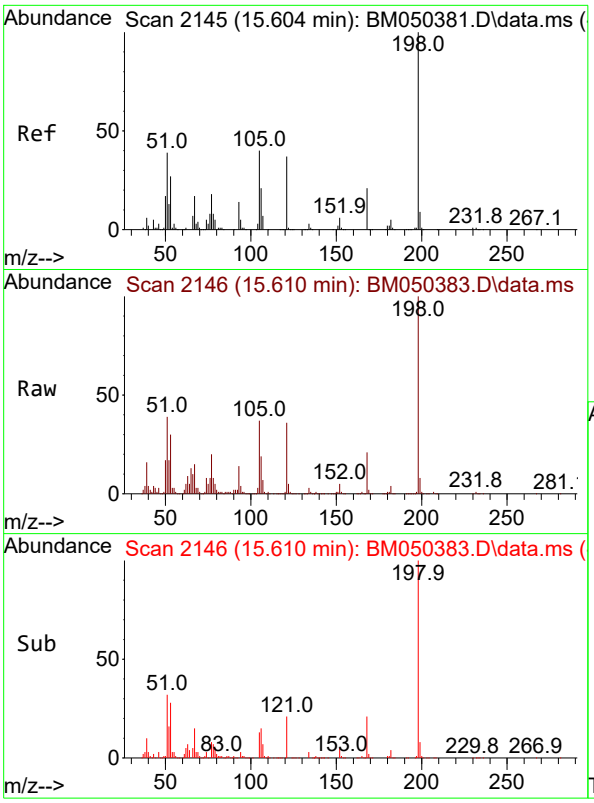


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:188 Resp: 1896999

Ion	Ratio	Lower	Upper
188	100		
94	7.3	6.0	9.0
80	8.0	6.5	9.7



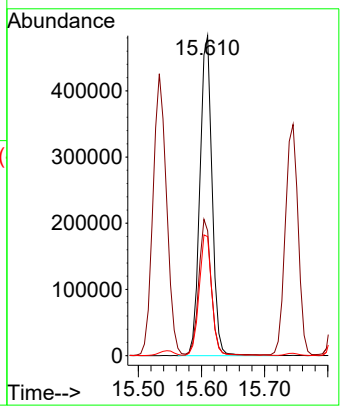


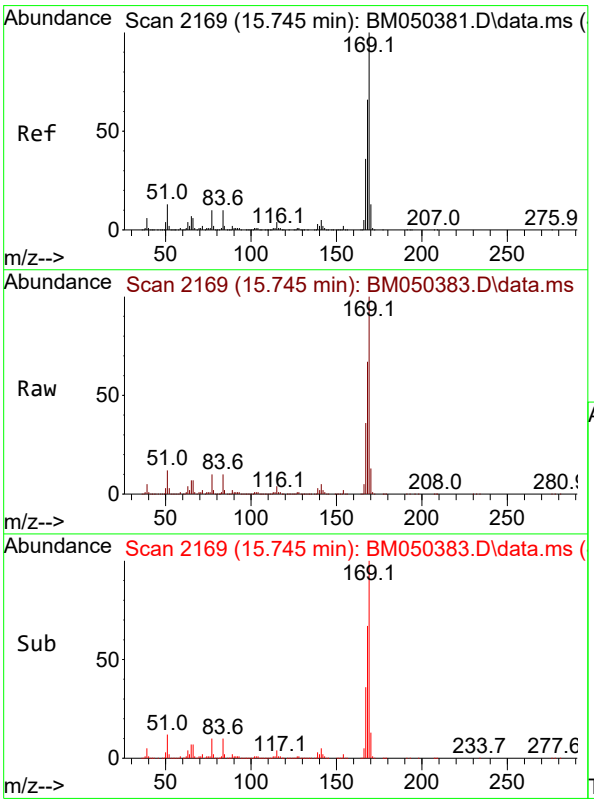
#65
4,6-Dinitro-2-methylphenol
Concen: 61.235 ng
RT: 15.610 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 645034

Ion	Ratio	Lower	Upper
198	100		
51	39.1	26.6	66.6
105	37.2	20.9	60.9

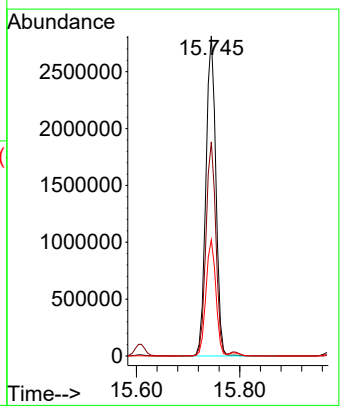


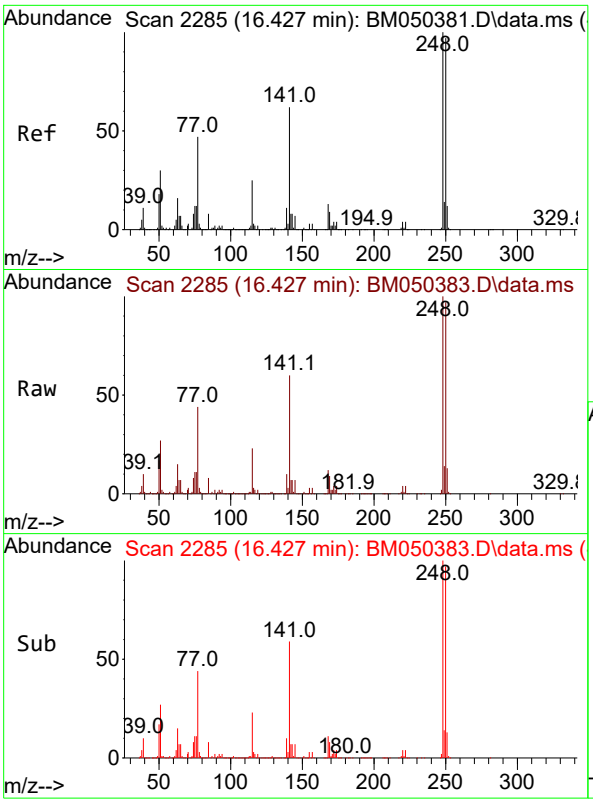


#66
n-Nitrosodiphenylamine
Concen: 63.087 ng
RT: 15.745 min Scan# 2169
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:169 Resp: 3744872

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.2	79.8
167	36.3	28.7	43.1



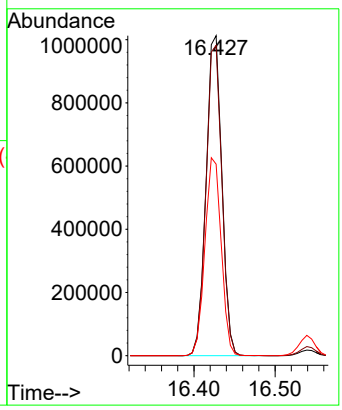


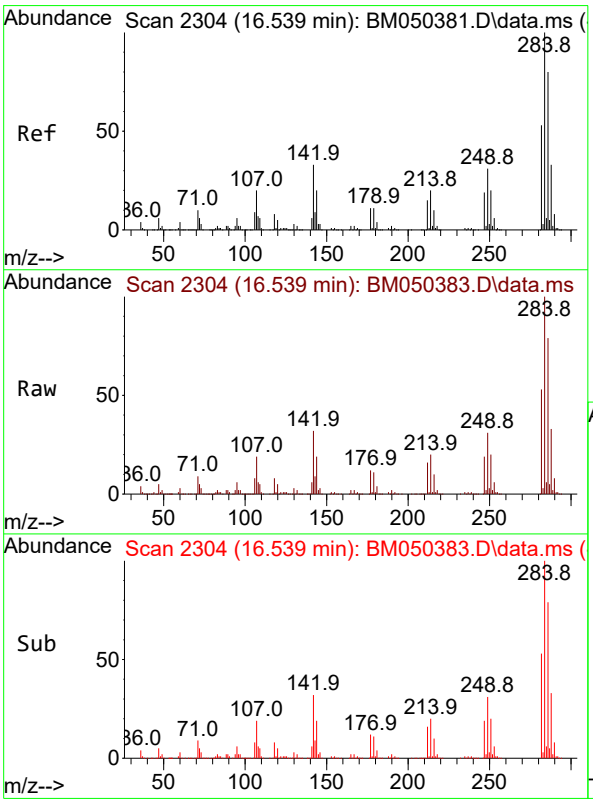
#67
4-Bromophenyl-phenylether
Concen: 65.485 ng
RT: 16.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 1368680

Ion	Ratio	Lower	Upper
248	100		
250	97.0	77.9	116.9
141	59.8	49.7	74.5

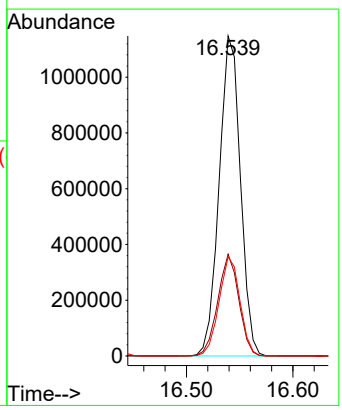


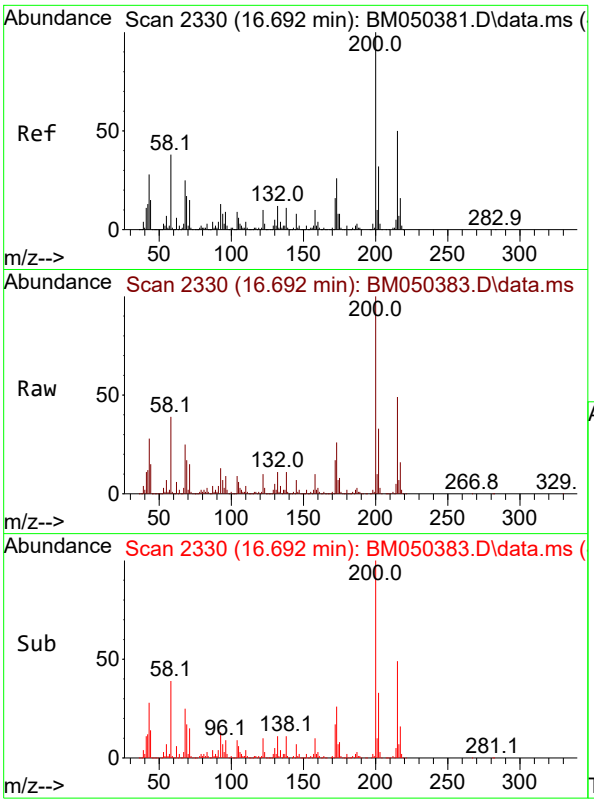


#68
Hexachlorobenzene
Concen: 64.288 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:284 Resp: 1586965

Ion	Ratio	Lower	Upper
284	100		
142	31.8	26.8	40.2
249	31.0	24.5	36.7



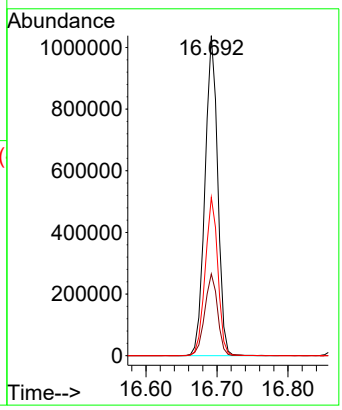


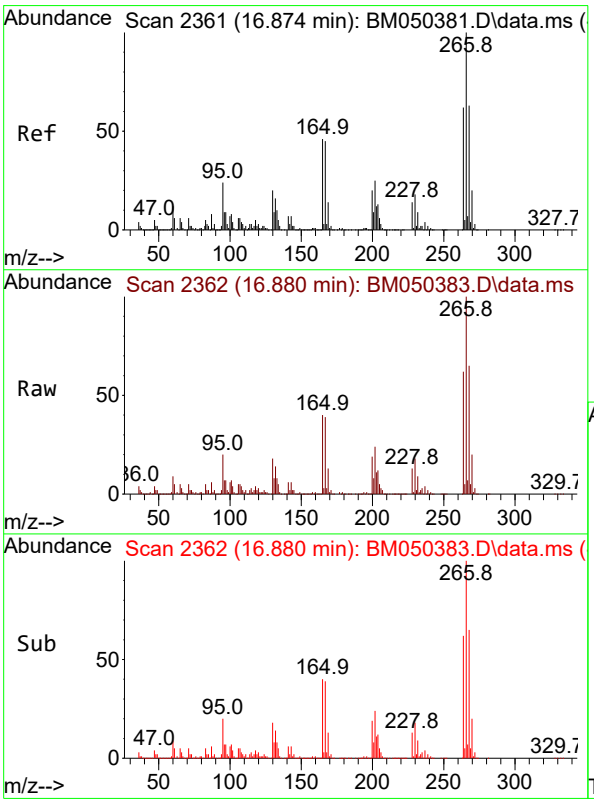
#69
Atrazine
Concen: 66.510 ng
RT: 16.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 1296405

Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.6	45.6
215	49.5	29.6	69.6

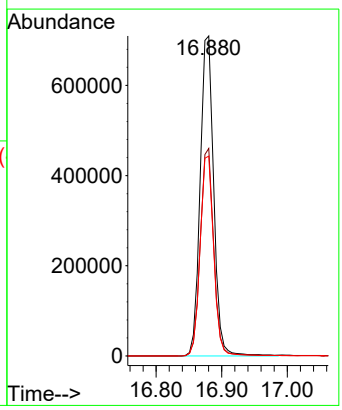


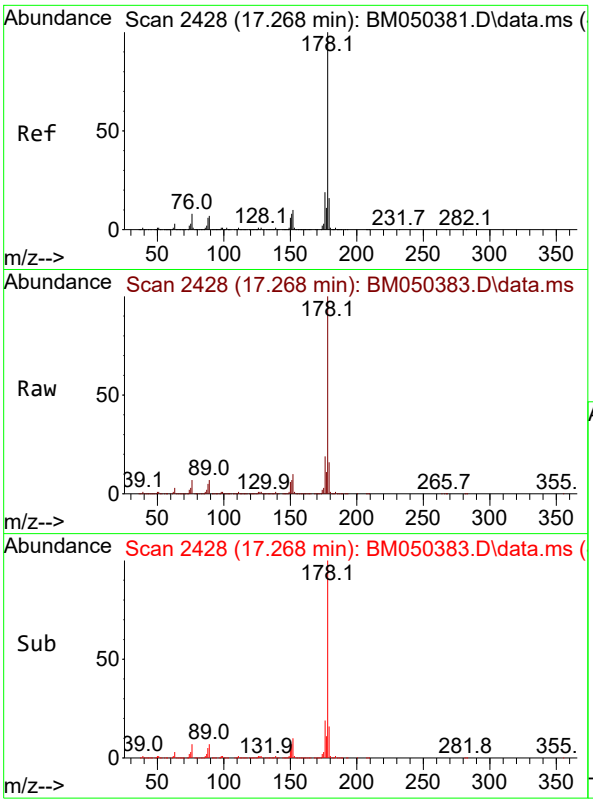


#70
Pentachlorophenol
Concen: 66.535 ng
RT: 16.880 min Scan# 2362
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:266 Resp: 1022433

Ion	Ratio	Lower	Upper
266	100		
268	64.9	50.5	75.7
264	62.5	49.9	74.9



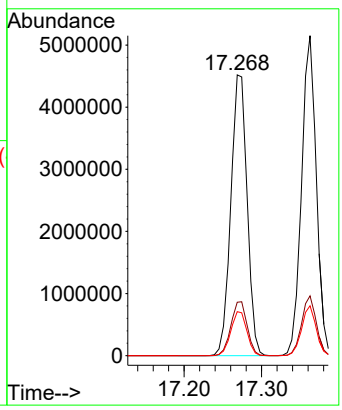


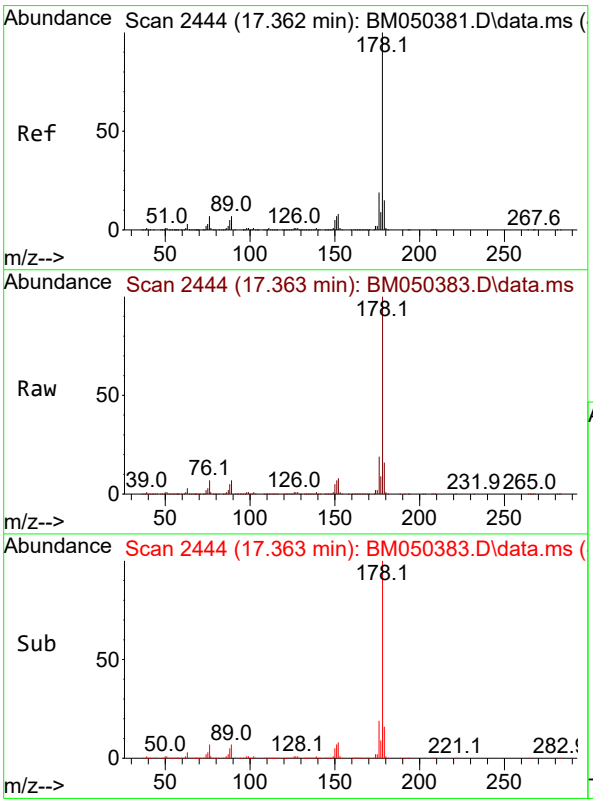
#71
Phenanthrene
Concen: 61.658 ng
RT: 17.268 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 6618592

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.0
179	15.7	12.5	18.7

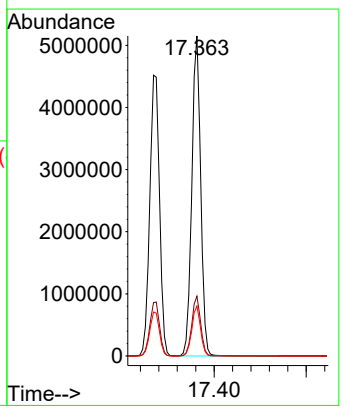


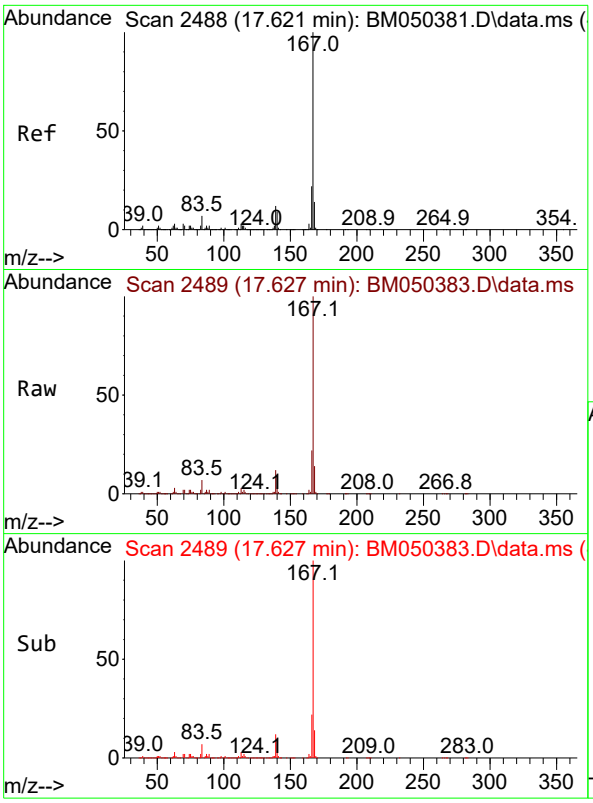


#72
Anthracene
Concen: 64.102 ng
RT: 17.363 min Scan# 2444
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:178 Resp: 6849285

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.6	12.2	18.4



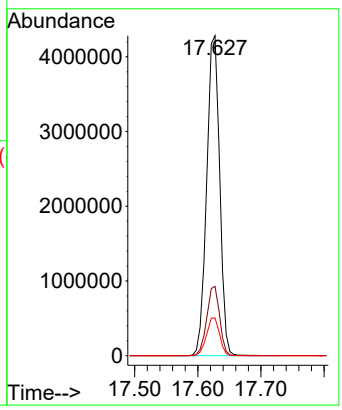


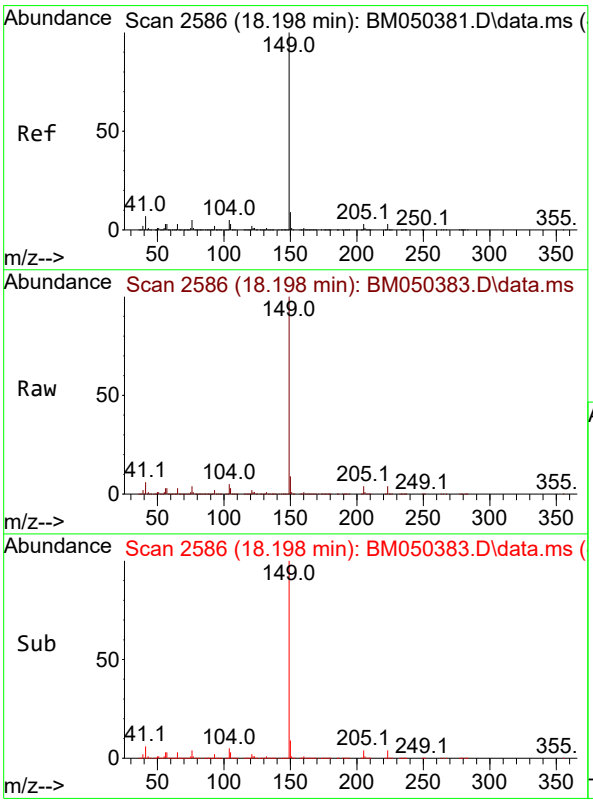
#73
Carbazole
Concen: 63.161 ng
RT: 17.627 min Scan# 24
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 6106388

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	11.8	9.9	14.9

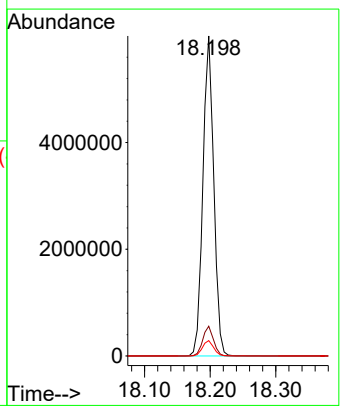


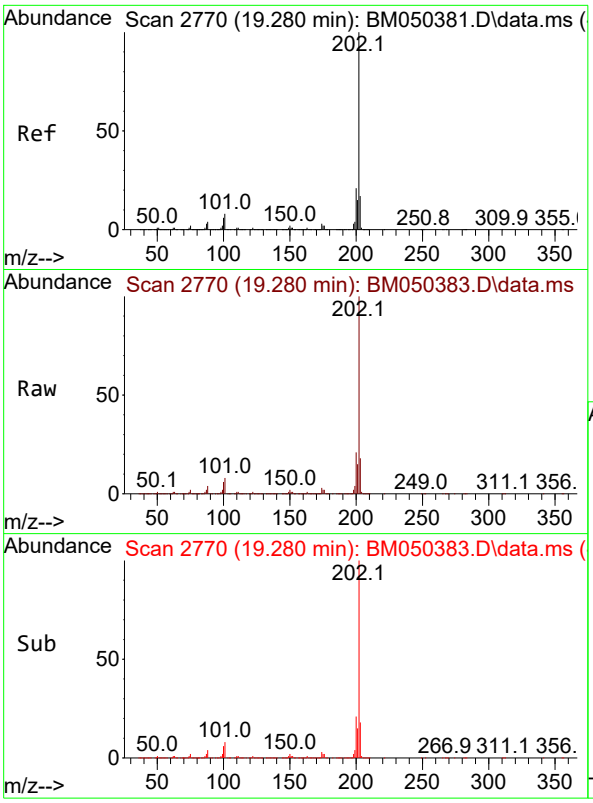


#74
Di-n-butylphthalate
Concen: 65.398 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:149 Resp: 6920453

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.8	3.9	5.9



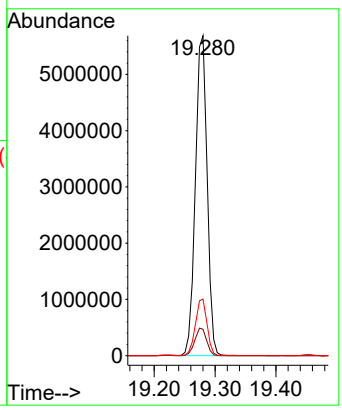


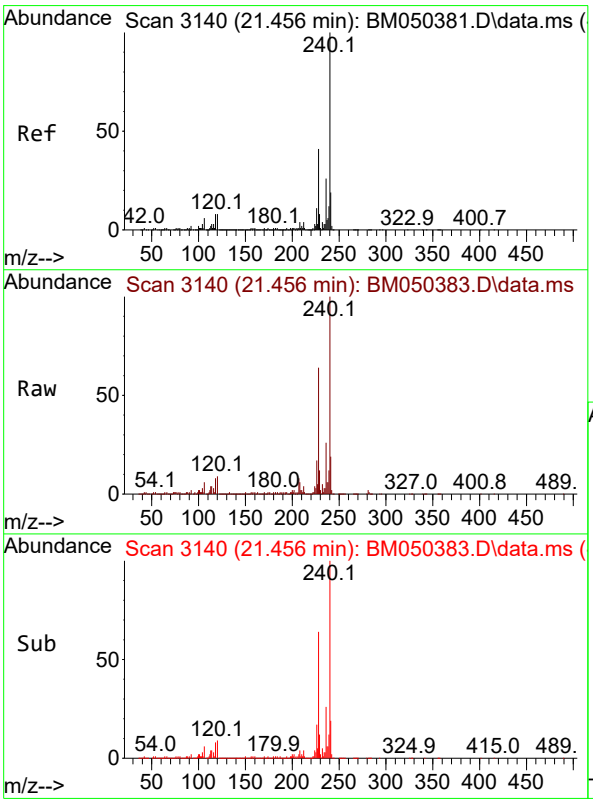
#75
Fluoranthene
Concen: 65.290 ng
RT: 19.280 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 7618952

Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	28.3
203	17.7	0.0	37.2

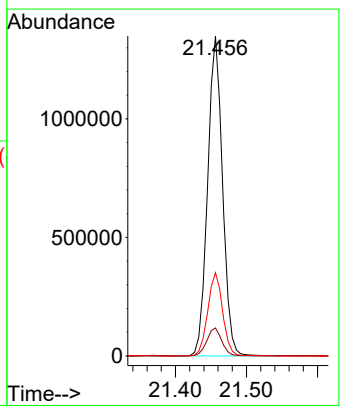


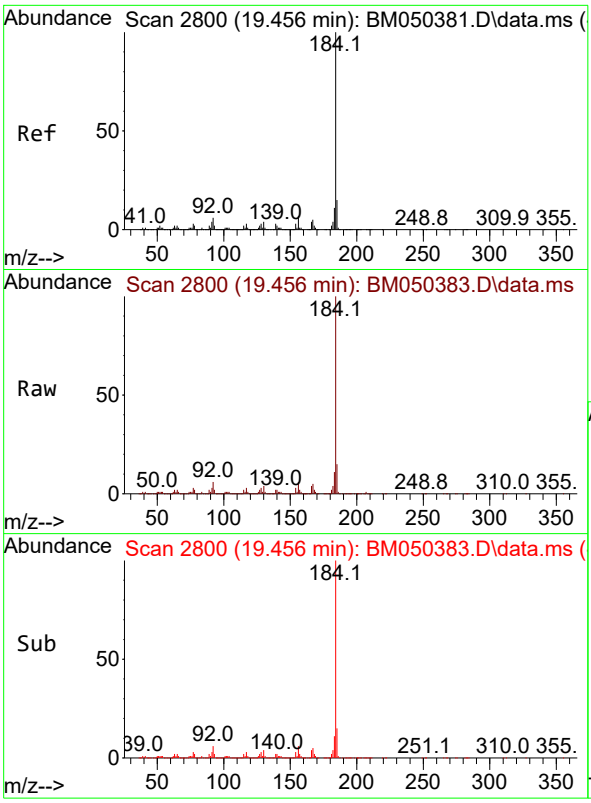


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3140
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:240 Resp: 1968054

Ion	Ratio	Lower	Upper
240	100		
120	8.8	6.7	10.1
236	26.0	20.7	31.1



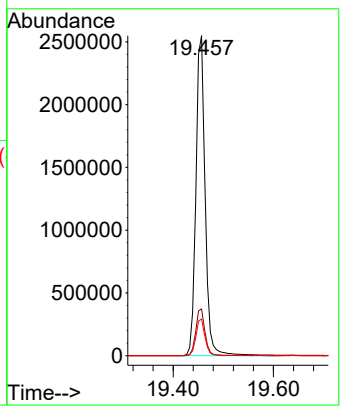


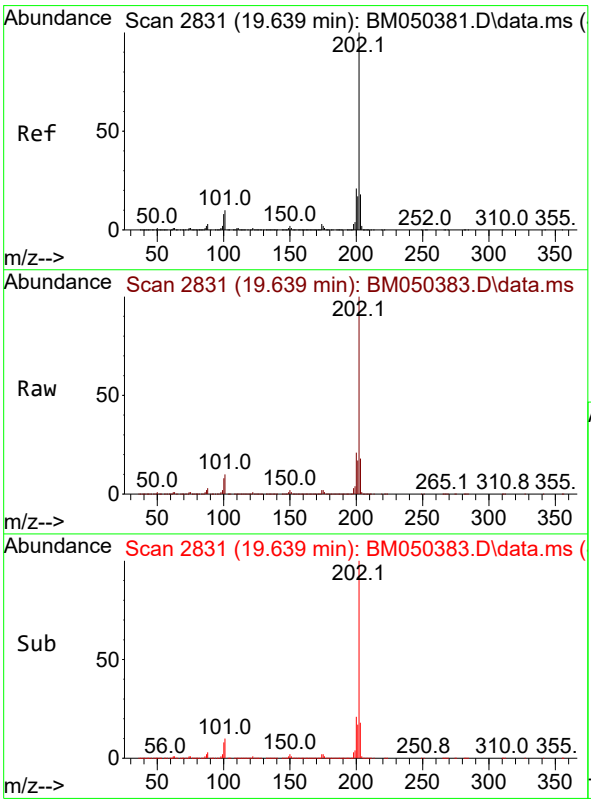
#77
Benzidine
Concen: 64.872 ng
RT: 19.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 3256422

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.7	17.5
183	11.5	9.0	13.6

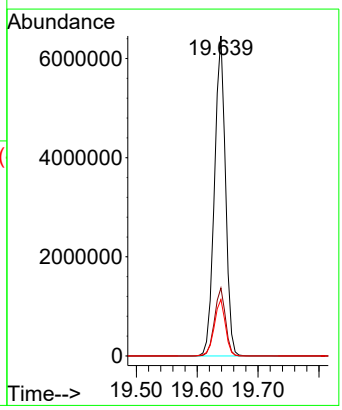


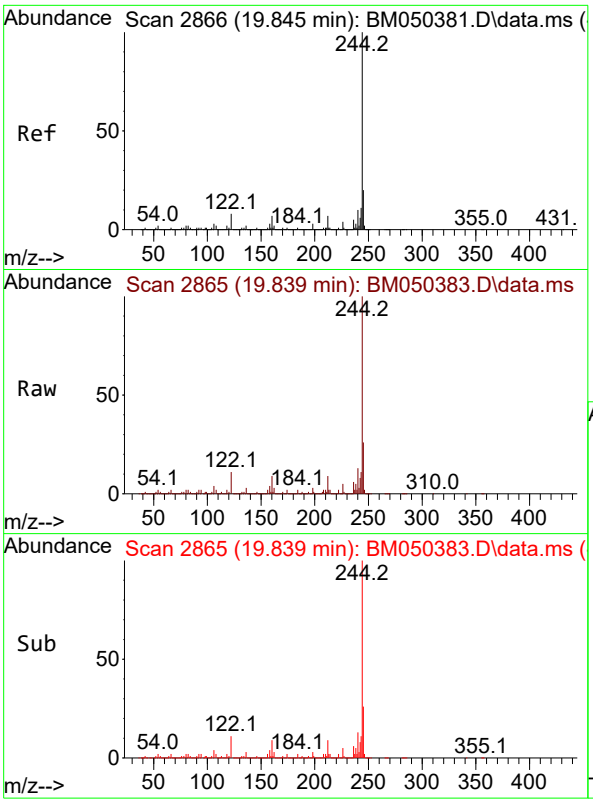


#78
Pyrene
Concen: 64.009 ng
RT: 19.639 min Scan# 2831
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:202 Resp: 8067941

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	14.1	21.1



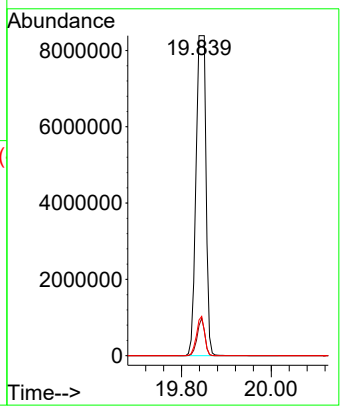


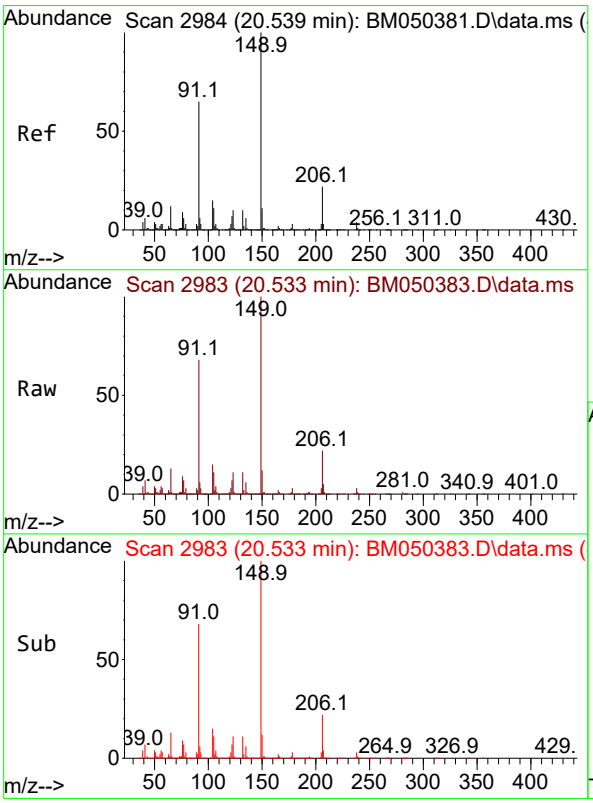
#79
Terphenyl-d14
Concen: 115.460 ng
RT: 19.839 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp:12914894

Ion	Ratio	Lower	Upper
244	100		
212	9.4	5.7	8.5#
122	11.2	6.2	9.2#

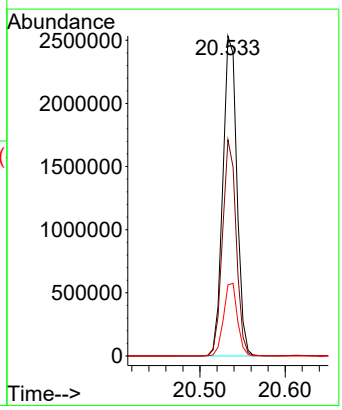


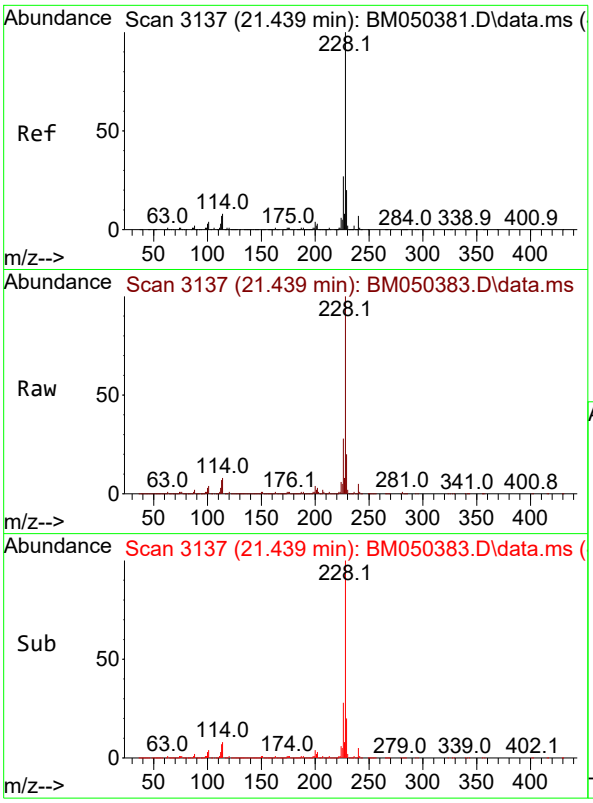


#80
Butylbenzylphthalate
Concen: 69.782 ng
RT: 20.533 min Scan# 2983
Delta R.T. -0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:149 Resp: 2900200

Ion	Ratio	Lower	Upper
149	100		
91	67.6	51.6	77.4
206	22.2	17.8	26.8



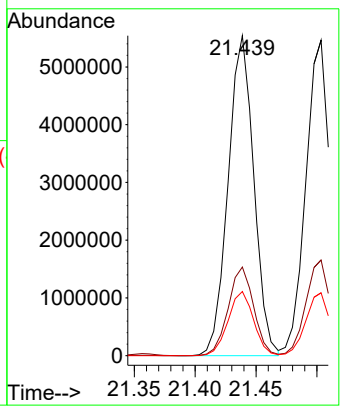


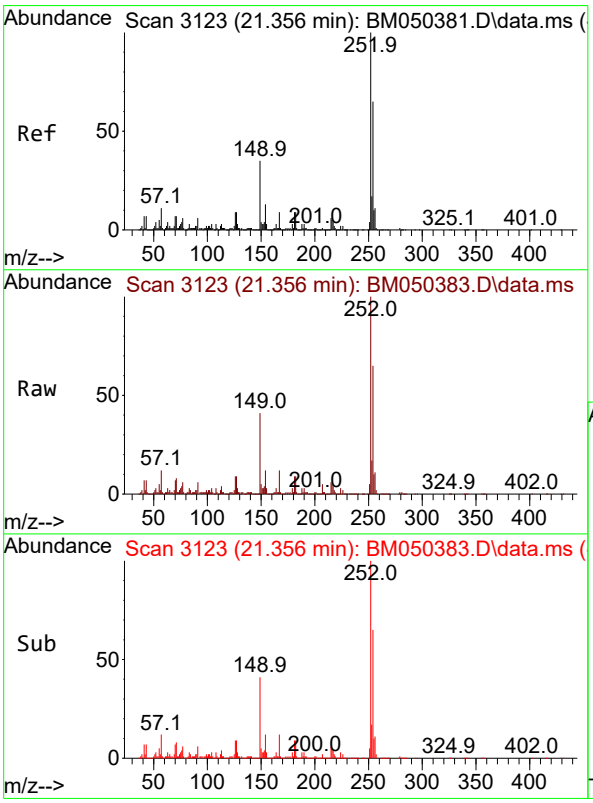
#81
Benzo(a)anthracene
Concen: 63.495 ng
RT: 21.439 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 8142088

Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.8	32.8
229	20.1	16.0	24.0

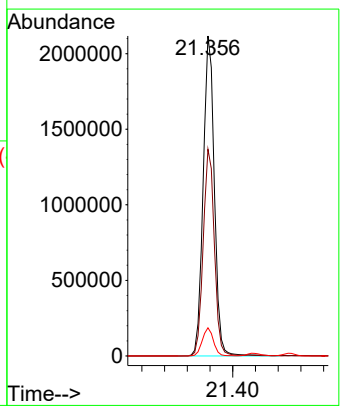


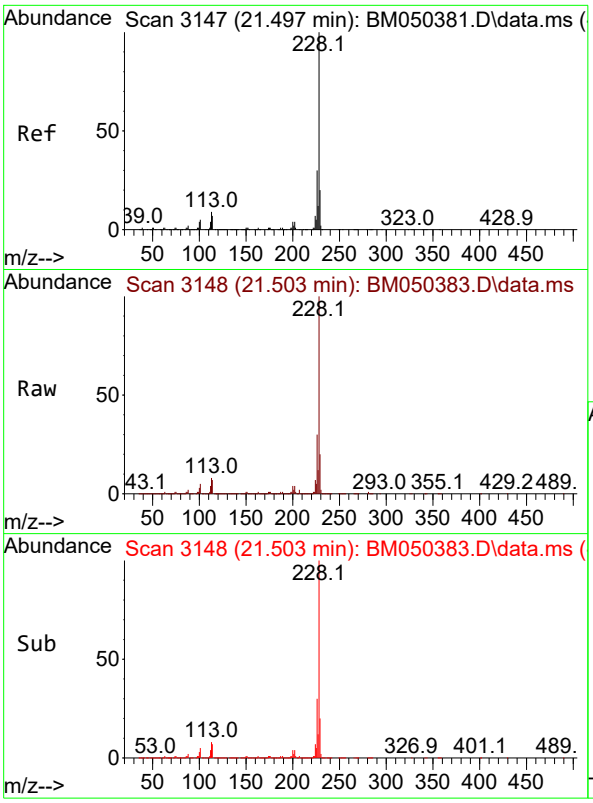


#82
3,3'-Dichlorobenzidine
Concen: 66.553 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:252 Resp: 2878037

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.7	77.5
126	8.8	7.3	10.9



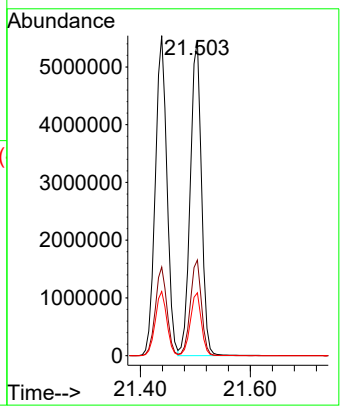


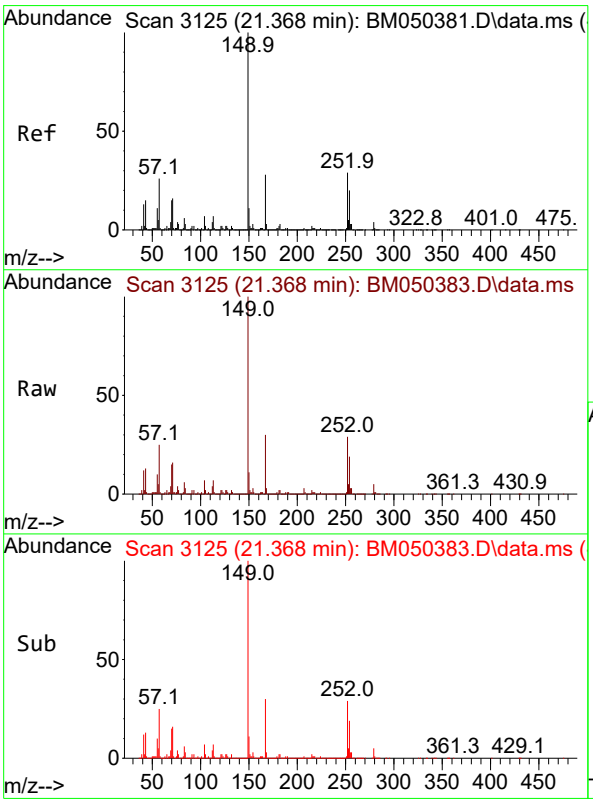
#83
Chrysene
Concen: 63.587 ng
RT: 21.503 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 7690956

Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.2	36.4
229	19.9	15.8	23.6

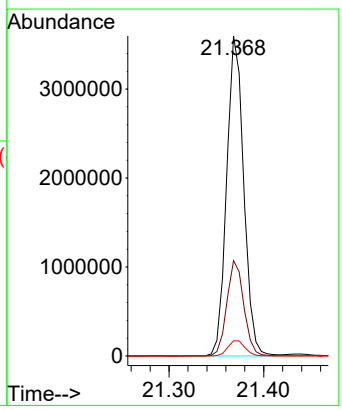


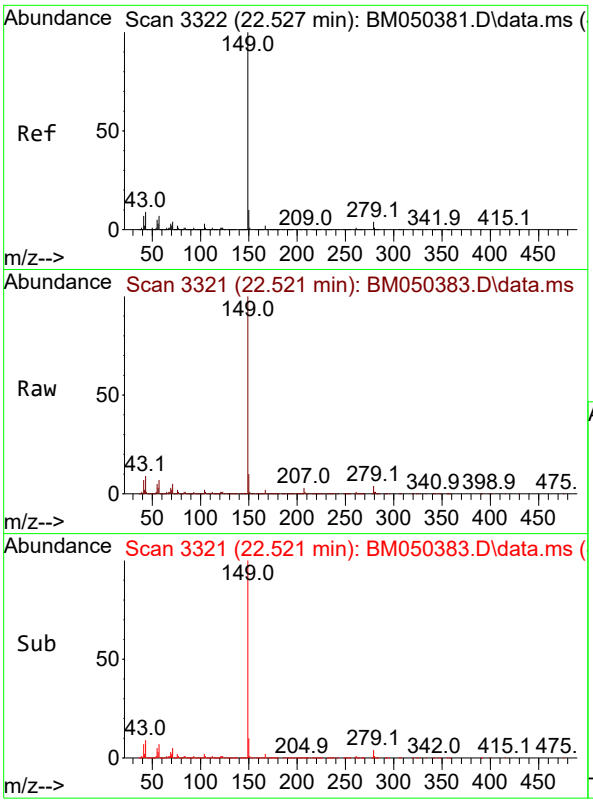


#84
Bis(2-ethylhexyl)phthalate
Concen: 68.268 ng
RT: 21.368 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:149 Resp: 4504059

Ion	Ratio	Lower	Upper
149	100		
167	29.8	22.7	34.1
279	4.7	3.5	5.3



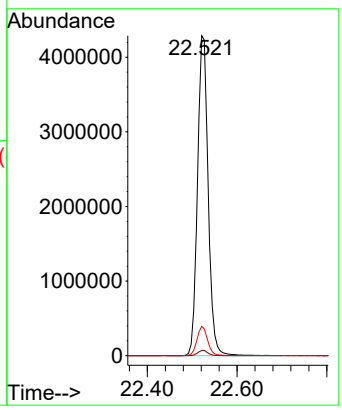


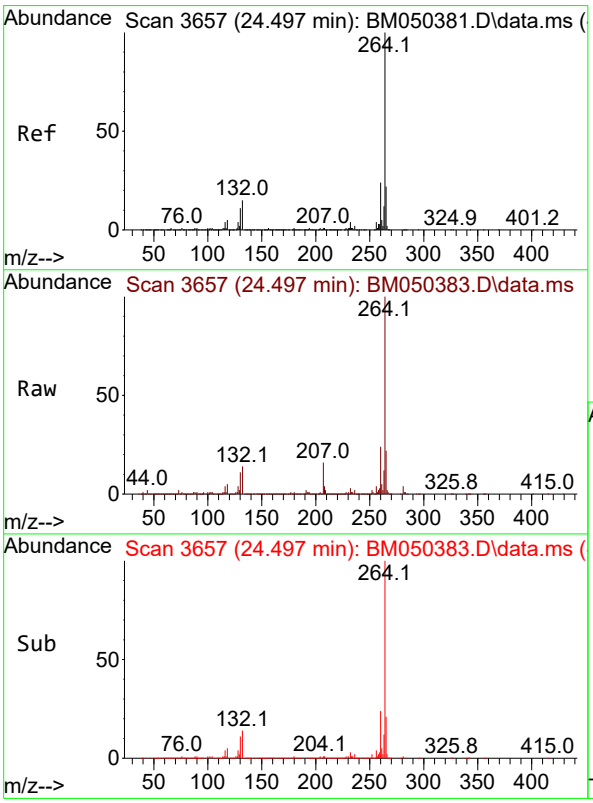
#85
Di-n-octyl phthalate
Concen: 68.206 ng
RT: 22.521 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 7047940

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.1	7.7	11.5

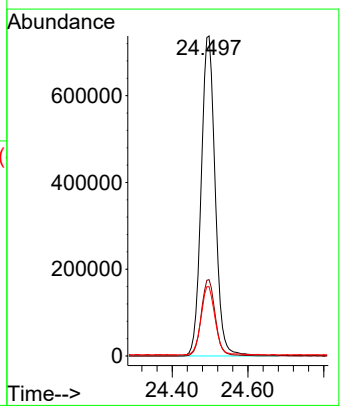


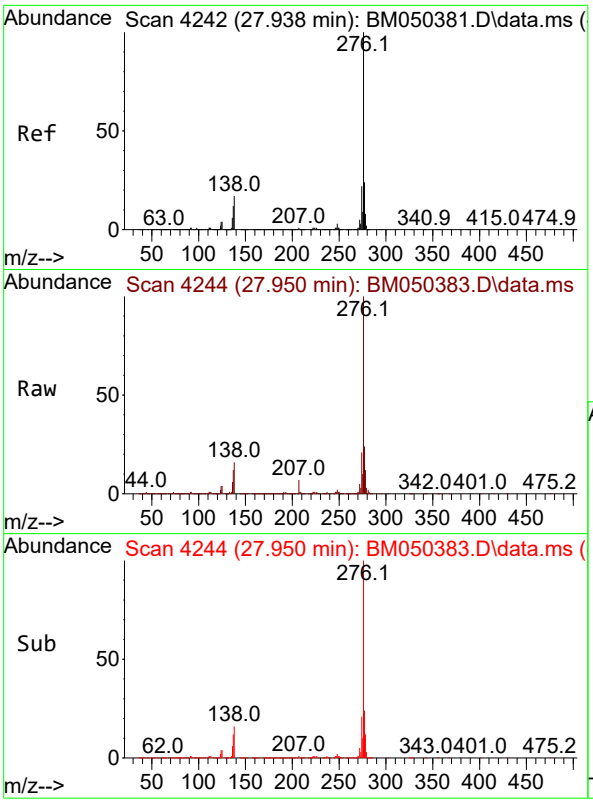


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.497 min Scan# 3657
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:264 Resp: 1889317

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.6	17.8	26.6



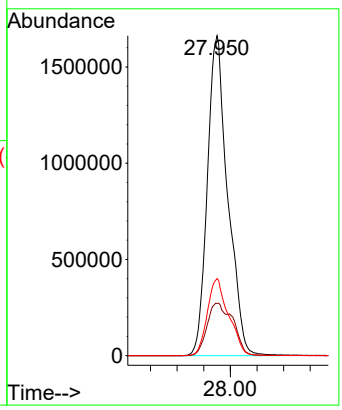


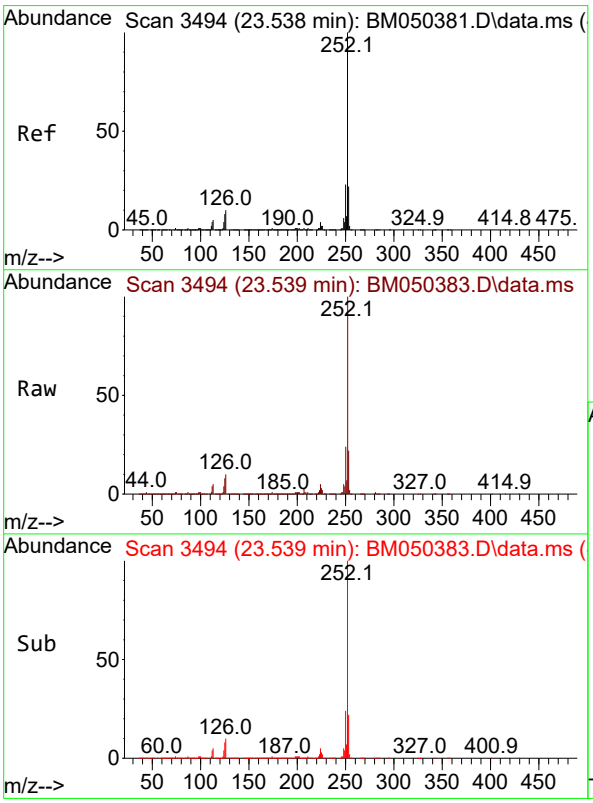
#87
Indeno(1,2,3-cd)pyrene
Concen: 66.007 ng
RT: 27.950 min Scan# 4
Delta R.T. 0.012 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 8866549

Ion	Ratio	Lower	Upper
276	100		
138	20.9	17.0	25.6
277	25.2	20.0	30.0

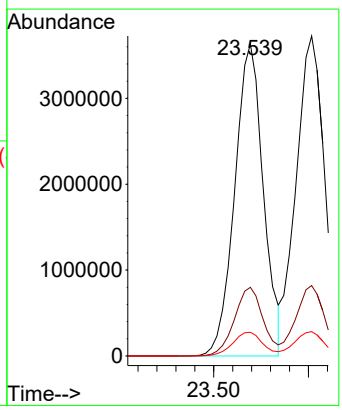


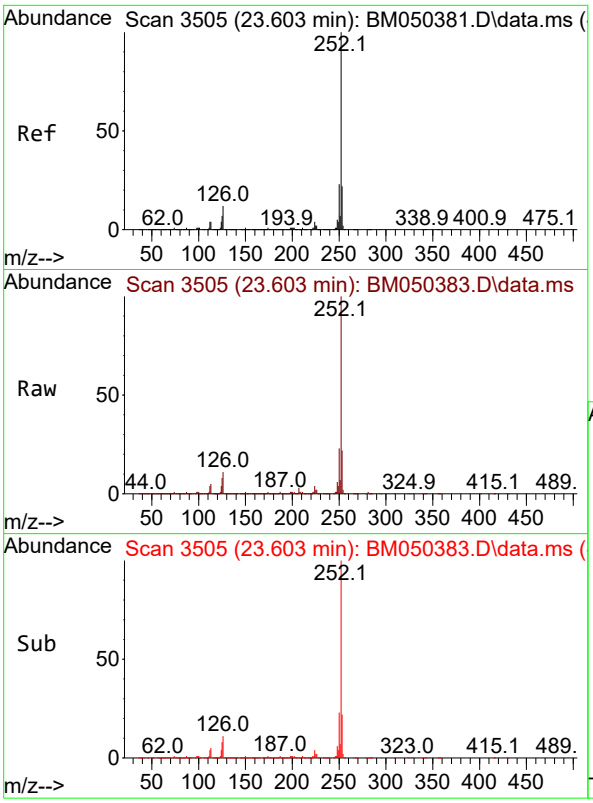


#88
Benzo(b)fluoranthene
Concen: 65.548 ng
RT: 23.539 min Scan# 3494
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:252 Resp: 7617485

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	7.6	6.3	9.5



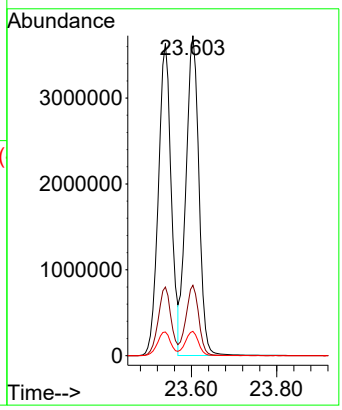


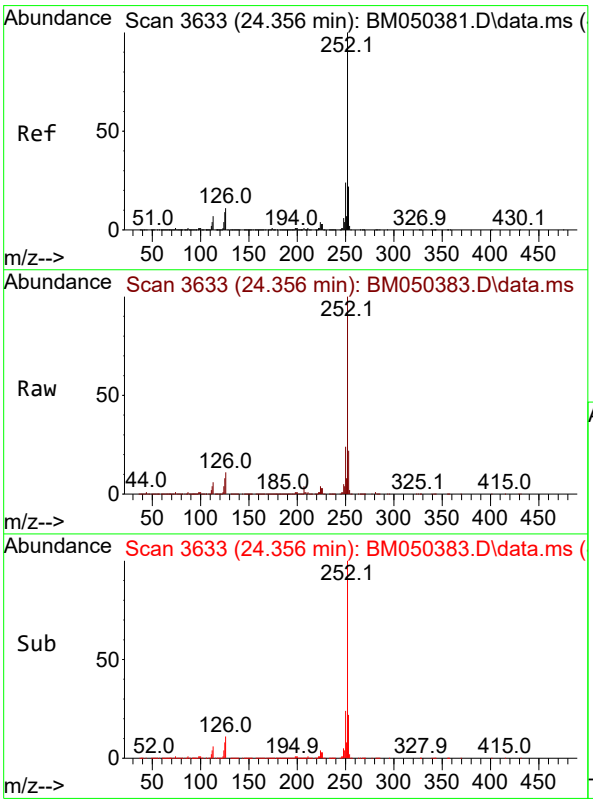
#89
Benzo(k)fluoranthene
Concen: 65.192 ng
RT: 23.603 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 7861158

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	7.6	6.2	9.2

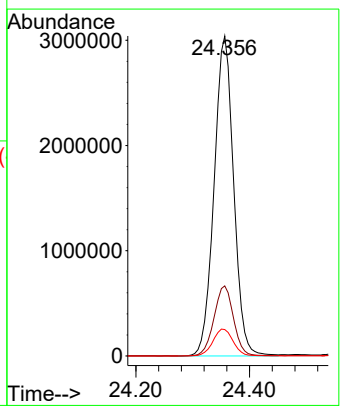


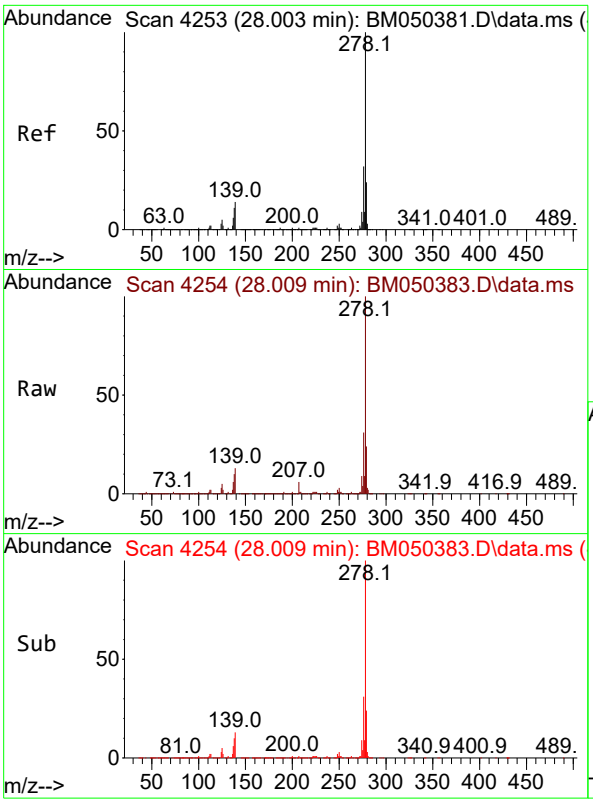


#90
Benzo(a)pyrene
Concen: 66.744 ng
RT: 24.356 min Scan# 3633
Delta R.T. 0.000 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:252 Resp: 7260855

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.2	7.0	10.4



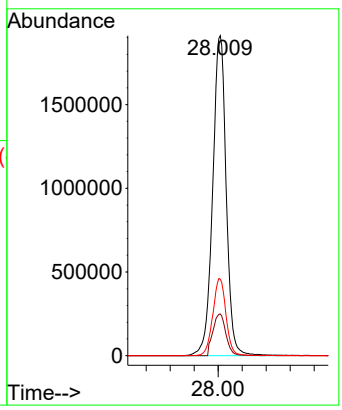


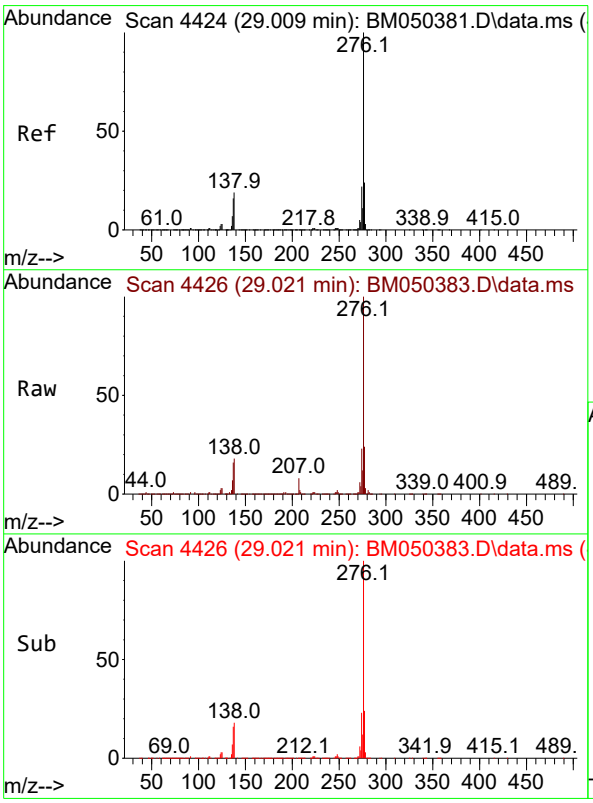
#91
Dibenzo(a,h)anthracene
Concen: 66.155 ng
RT: 28.009 min Scan# 4
Delta R.T. 0.006 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Instrument :
BNA_M
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 7483970

Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.8	16.2
279	23.9	19.4	29.0

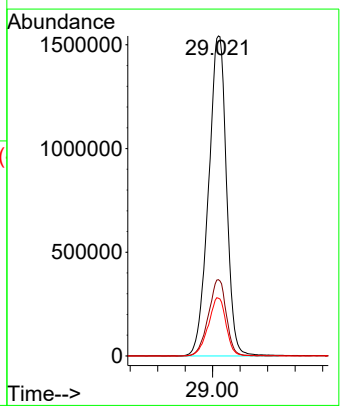




#92
Benzo(g,h,i)perylene
Concen: 65.319 ng
RT: 29.021 min Scan# 4426
Delta R.T. 0.012 min
Lab File: BM050383.D
Acq: 08 Jul 2025 16:41

Tgt Ion:276 Resp: 6983867

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.1	28.7
138	18.1	14.9	22.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050384.D
Acq On : 08 Jul 2025 17:22
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Quant Time: Jul 08 18:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.869	152	429681	20.000	ng	0.00
21) Naphthalene-d8	10.663	136	1643859	20.000	ng	0.00
39) Acenaphthene-d10	14.498	164	1043719	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	1944455	20.000	ng	0.00
76) Chrysene-d12	21.457	240	2055292	20.000	ng	0.00
86) Perylene-d12	24.498	264	1953481	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	4014825	160.835	ng	0.00
7) Phenol-d6	7.028	99	5149049	163.630	ng	0.00
23) Nitrobenzene-d5	9.028	82	5264647	163.391	ng	0.00
42) 2,4,6-Tribromophenol	15.980	330	2335664	184.182	ng	0.00
45) 2-Fluorobiphenyl	13.122	172	13148691	155.576	ng	0.00
79) Terphenyl-d14	19.839	244	14435460	123.577	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.334	88	785309	76.507	ng	99
3) Pyridine	3.734	79	2123609	78.804	ng	98
4) n-Nitrosodimethylamine	3.640	42	970223	77.228	ng	96
6) Aniline	7.193	93	3301305	81.748	ng	99
8) 2-Chlorophenol	7.428	128	2162654	82.163	ng	99
10) Phenol	7.052	94	2637766	80.368	ng	100
11) bis(2-Chloroethyl)ether	7.287	93	2092911	79.625	ng	99
12) 1,3-Dichlorobenzene	7.757	146	2517372	78.654	ng	98
13) 1,4-Dichlorobenzene	7.904	146	2555213	78.187	ng	99
14) 1,2-Dichlorobenzene	8.222	146	2454039	78.434	ng	99
15) Benzyl Alcohol	8.104	79	1807870	81.539	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.399	45	2991629	77.270	ng	99
17) 2-Methylphenol	8.304	107	1732716	81.397	ng	99
18) Hexachloroethane	8.951	117	932539	81.135	ng	99
19) n-Nitroso-di-n-propyla...	8.681	70	1587587	83.281	ng	95
20) 3+4-Methylphenols	8.634	107	2300155	80.491	ng	100
22) Acetophenone	8.687	105	3217324	78.279	ng	98
24) Nitrobenzene	9.063	77	2296616	79.875	ng	100
25) Isophorone	9.598	82	4289620	82.044	ng	100
26) 2-Nitrophenol	9.775	139	1095059	93.448	ng	97
27) 2,4-Dimethylphenol	9.834	122	2026460	81.267	ng	97
28) bis(2-Chloroethoxy)met...	10.075	93	2760921	79.691	ng	99
29) 2,4-Dichlorophenol	10.310	162	2134843	83.334	ng	98
30) 1,2,4-Trichlorobenzene	10.528	180	2483928	81.052	ng	99
31) Naphthalene	10.716	128	6520664	78.095	ng	100
32) Benzoic acid	9.993	122	1311597	81.001	ng	97
33) 4-Chloroaniline	10.816	127	2873151	81.395	ng	99
34) Hexachlorobutadiene	11.010	225	1546563	82.684	ng	100
35) Caprolactam	11.604	113	594080	84.949	ng	93
36) 4-Chloro-3-methylphenol	11.940	107	1983864	82.929	ng	100
37) 2-Methylnaphthalene	12.322	142	4254768	80.705	ng	99
38) 1-Methylnaphthalene	12.545	142	4475032	80.207	ng	99
40) 1,2,4,5-Tetrachloroben...	12.692	216	2824950	85.112	ng	99
41) Hexachlorocyclopentadiene	12.681	237	1914528	90.239	ng	99
43) 2,4,6-Trichlorophenol	12.928	196	1782842	87.263	ng	99
44) 2,4,5-Trichlorophenol	12.998	196	1919360	86.021	ng	97

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050384.D
Acq On : 08 Jul 2025 17:22
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Quant Time: Jul 08 18:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

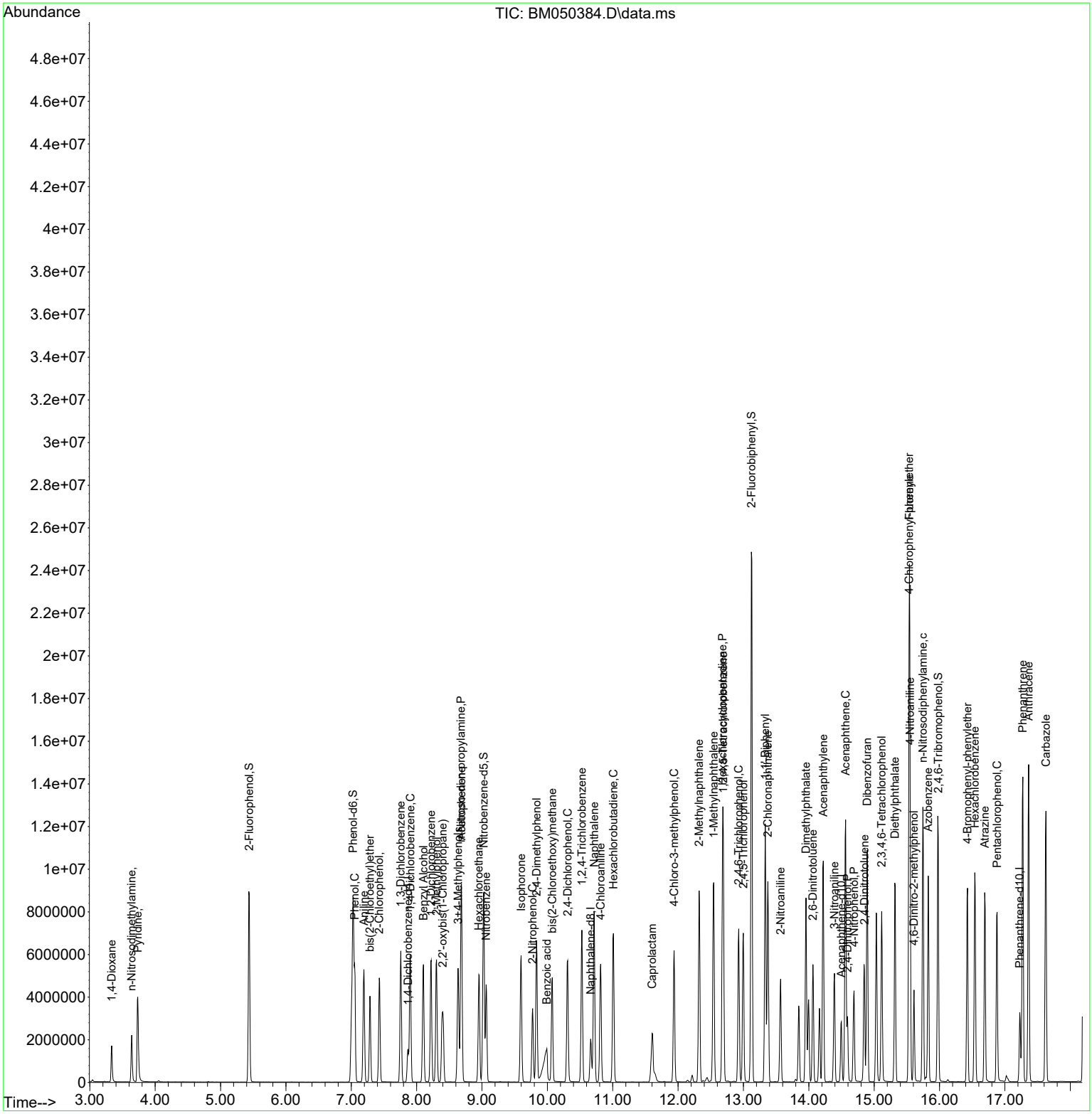
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.334	154	6141549	79.310	ng		100
47) 2-Chloronaphthalene	13.375	162	4889665	79.196	ng		99
48) 2-Nitroaniline	13.569	65	1233222	89.485	ng		96
49) Acenaphthylene	14.222	152	7559726	81.019	ng		100
50) Dimethylphthalate	13.957	163	5732691	79.779	ng		100
51) 2,6-Dinitrotoluene	14.063	165	1207179	87.496	ng		99
52) Acenaphthene	14.563	154	4833886	81.486	ng		99
53) 3-Nitroaniline	14.392	138	1297724	88.444	ng		99
54) 2,4-Dinitrophenol	14.592	184	626569	82.116	ng		86
55) Dibenzofuran	14.892	168	7143343	78.152	ng		99
56) 4-Nitrophenol	14.692	139	1075848	85.262	ng		93
57) 2,4-Dinitrotoluene	14.851	165	1674329	79.189	ng		94
58) Fluorene	15.539	166	6138107	81.530	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.116	232	1636646	87.136	ng		97
60) Diethylphthalate	15.316	149	5511226	80.291	ng		100
61) 4-Chlorophenyl-phenyle...	15.533	204	3298863	83.798	ng		98
62) 4-Nitroaniline	15.551	138	1336300	77.536	ng		97
63) Azobenzene	15.828	77	5026045	79.741	ng		99
65) 4,6-Dinitro-2-methylph...	15.610	198	912781	82.140	ng		92
66) n-Nitrosodiphenylamine	15.745	169	5086187	83.592	ng		100
67) 4-Bromophenyl-phenylether	16.427	248	1878071	87.664	ng		97
68) Hexachlorobenzene	16.539	284	2164238	85.534	ng		97
69) Atrazine	16.692	200	1767182	88.450	ng		99
70) Pentachlorophenol	16.880	266	1425059	90.473	ng		99
71) Phenanthrene	17.274	178	8893346	80.828	ng		99
72) Anthracene	17.363	178	9167986	83.709	ng		99
73) Carbazole	17.627	167	8180242	82.547	ng		99
74) Di-n-butylphthalate	18.198	149	9300935	85.749	ng		99
75) Fluoranthene	19.280	202	10317307	86.256	ng		99
77) Benzidine	19.457	184	3817410	72.819	ng		100
78) Pyrene	19.639	202	10818153	82.185	ng		99
80) Butylbenzylphthalate	20.539	149	3938114	90.734	ng		97
81) Benzo(a)anthracene	21.439	228	11055858	82.558	ng		99
82) 3,3'-Dichlorobenzidine	21.362	252	3825108	84.699	ng		99
83) Chrysene	21.504	228	10270454	81.310	ng		99
84) Bis(2-ethylhexyl)phtha...	21.374	149	6100517	88.540	ng	#	96
85) Di-n-octyl phthalate	22.527	149	9722259	90.093	ng		99
87) Indeno(1,2,3-cd)pyrene	27.956	276	12120915	87.270	ng		99
88) Benzo(b)fluoranthene	23.545	252	10371642	86.316	ng		99
89) Benzo(k)fluoranthene	23.609	252	10546917	84.592	ng		100
90) Benzo(a)pyrene	24.362	252	9879526	87.833	ng		100
91) Dibenzo(a,h)anthracene	28.015	278	10165335	86.905	ng		99
92) Benzo(g,h,i)perylene	29.027	276	9504954	85.979	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050384.D
Acq On : 08 Jul 2025 17:22
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

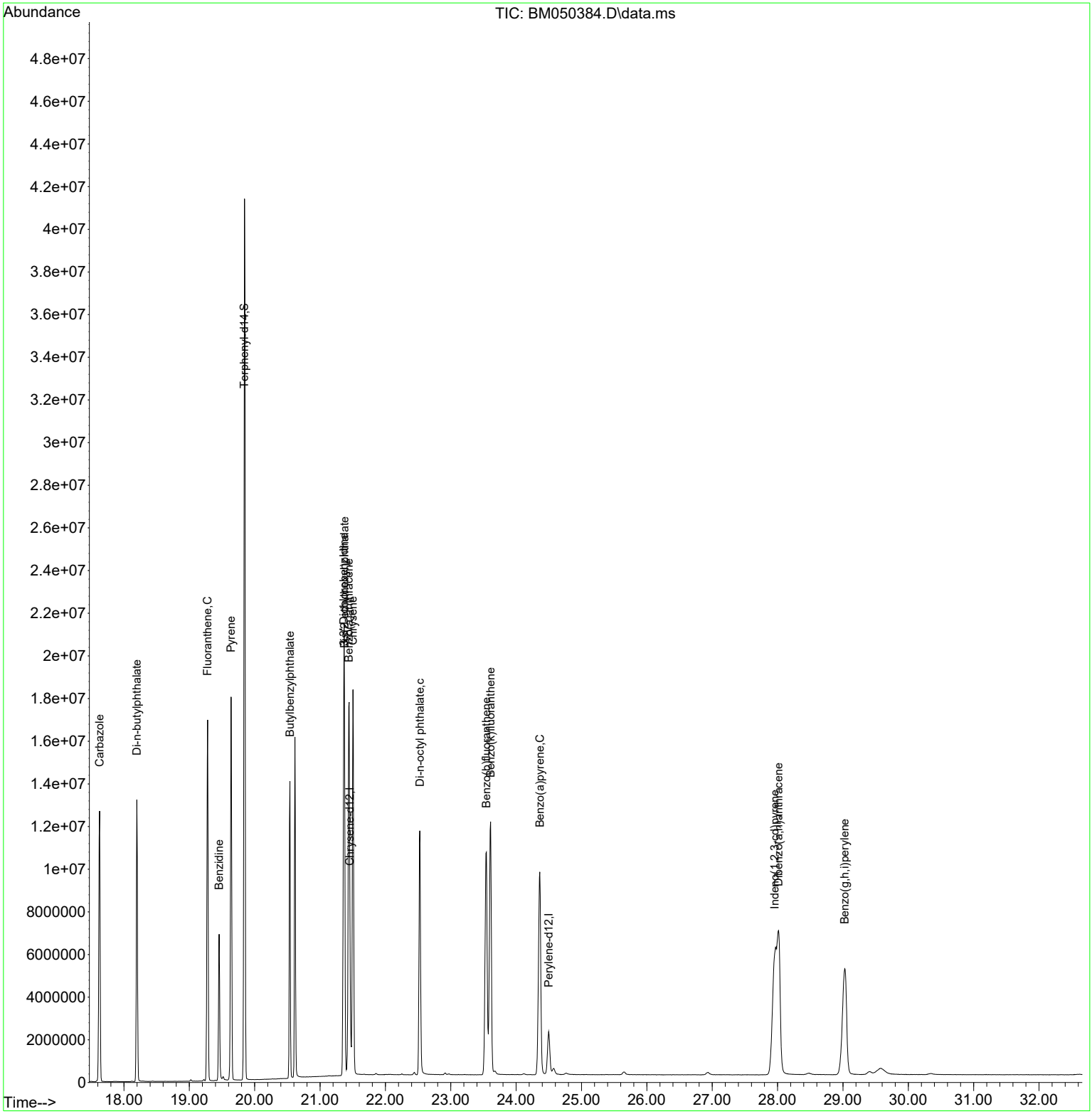
Quant Time: Jul 08 18:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration

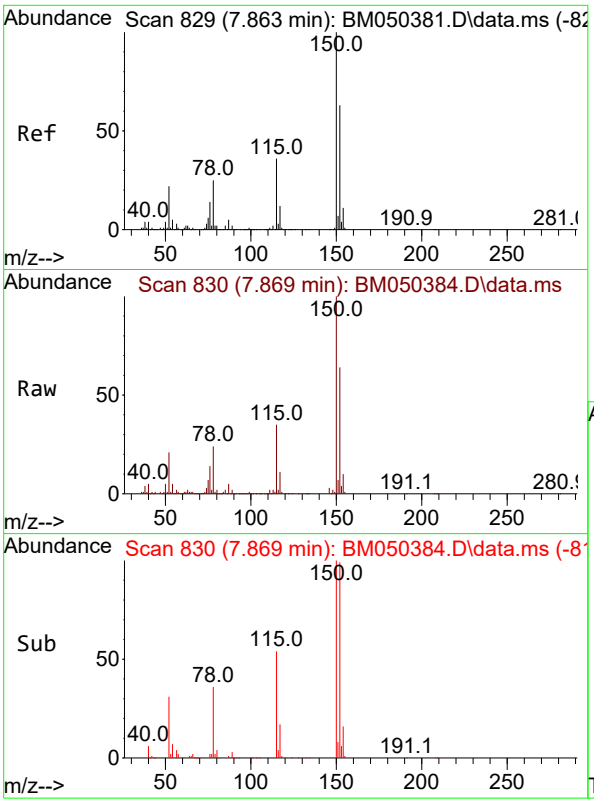


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050384.D
Acq On : 08 Jul 2025 17:22
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Quant Time: Jul 08 18:24:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 17:58:12 2025
Response via : Initial Calibration



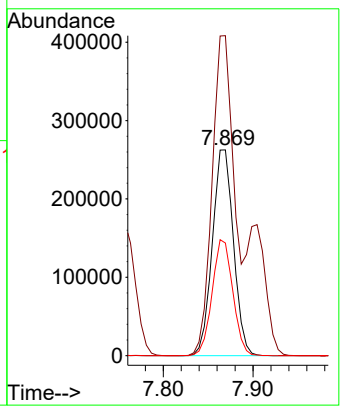


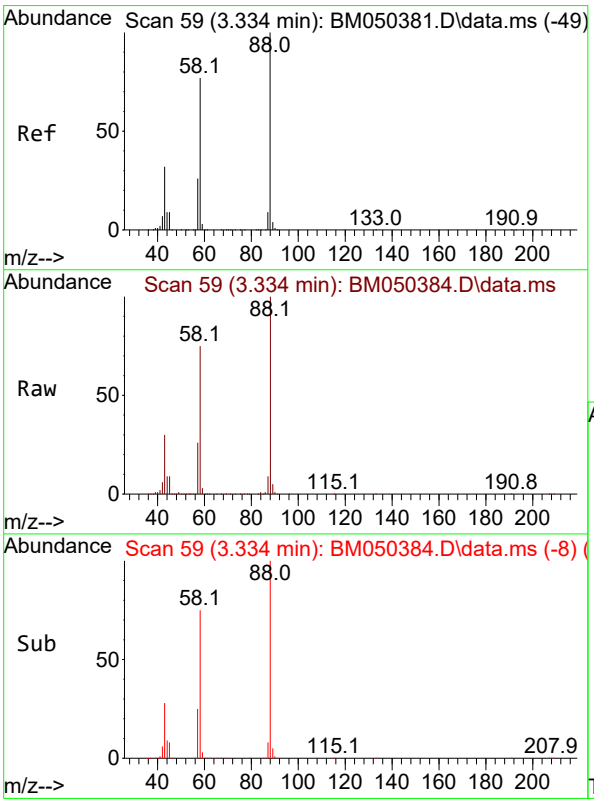
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.869 min Scan# 8
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 429681

Ion	Ratio	Lower	Upper
152	100		
150	155.5	126.2	189.4
115	54.7	45.8	68.8

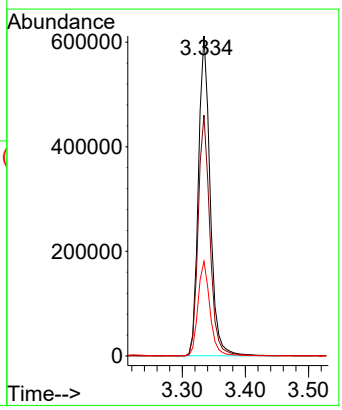


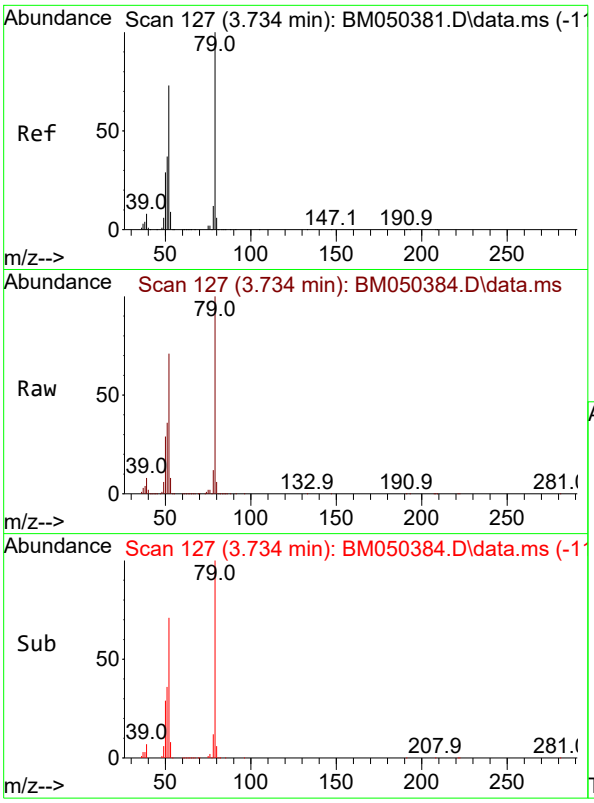


#2
1,4-Dioxane
Concen: 76.507 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 88 Resp: 785309

Ion	Ratio	Lower	Upper
88	100		
58	75.7	61.0	91.6
43	30.0	24.6	37.0



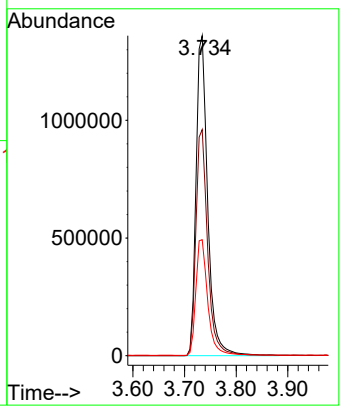


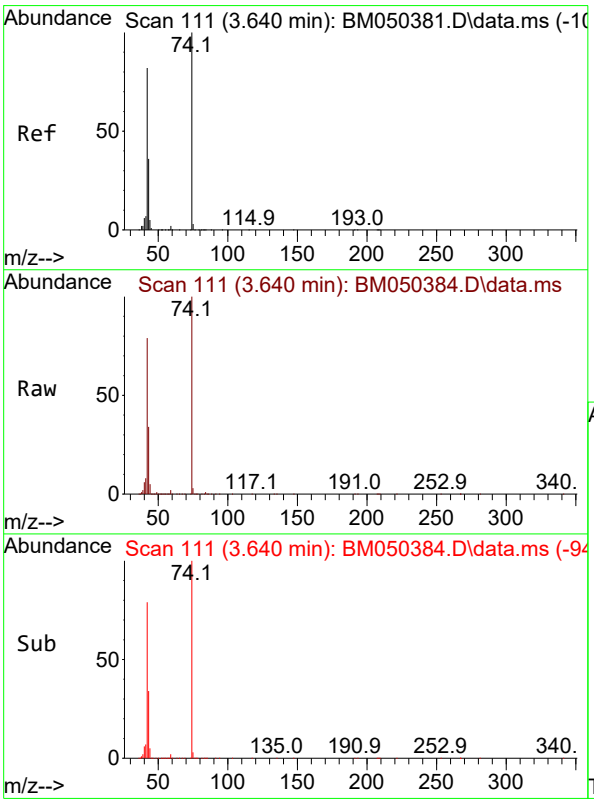
#3
Pyridine
Concen: 78.804 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 2123609

Ion	Ratio	Lower	Upper
79	100		
52	70.7	58.3	87.5
51	36.2	29.6	44.4

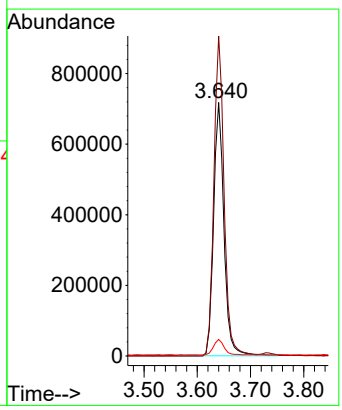


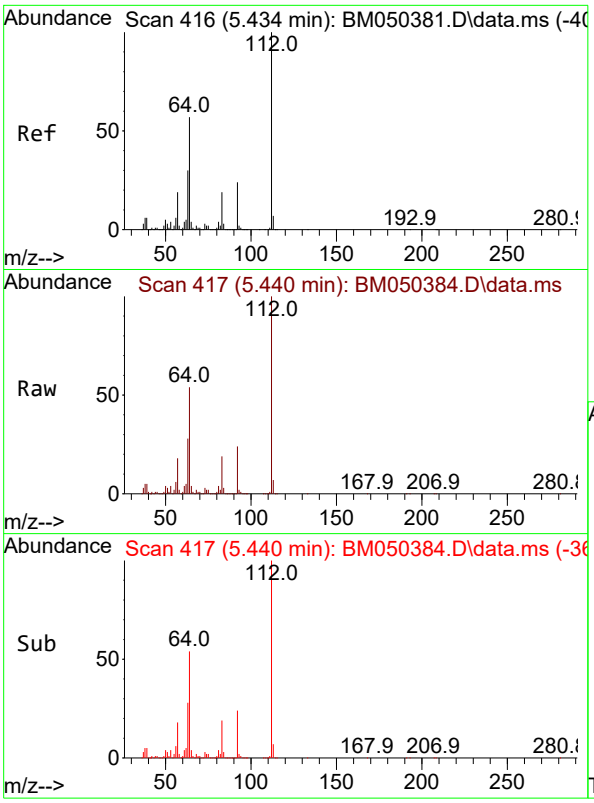


#4
n-Nitrosodimethylamine
Concen: 77.228 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 42 Resp: 970223

Ion	Ratio	Lower	Upper
42	100		
74	126.3	97.5	146.3
44	6.5	5.7	8.5



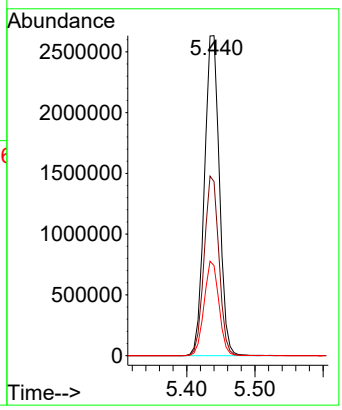


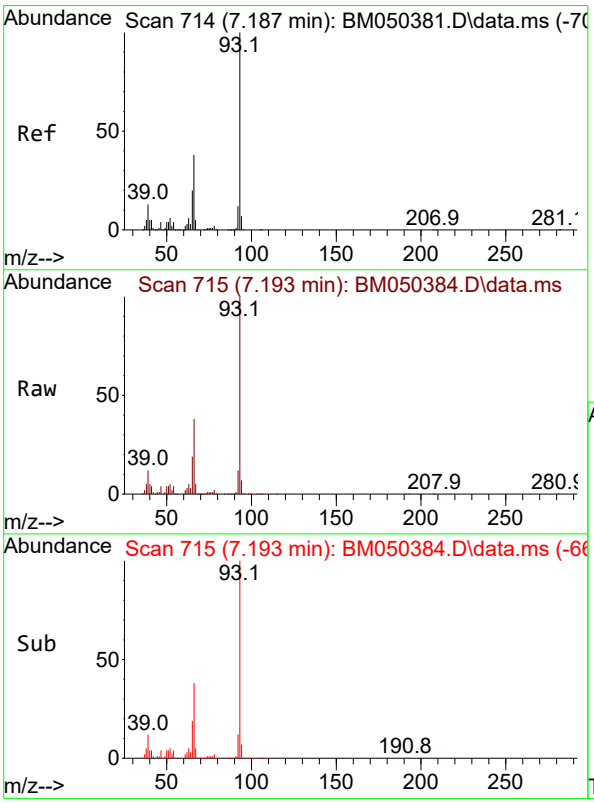
#5
2-Fluorophenol
Concen: 160.835 ng
RT: 5.440 min Scan# 41
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 4014825

Ion	Ratio	Lower	Upper
112	100		
64	54.4	45.5	68.3
63	28.1	24.2	36.4

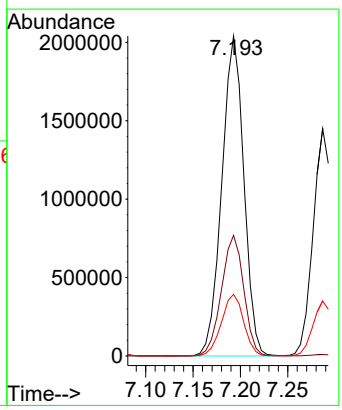


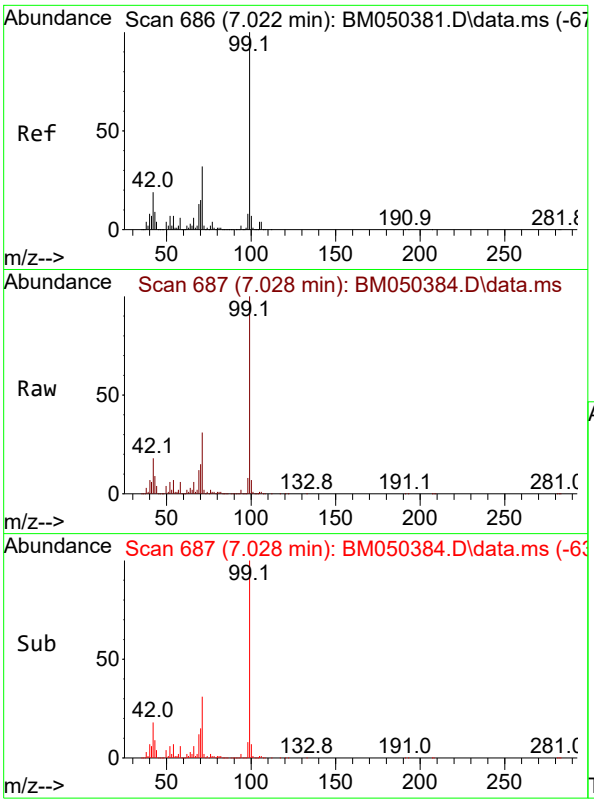


#6
Aniline
Concen: 81.748 ng
RT: 7.193 min Scan# 715
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 93 Resp: 3301305

Ion	Ratio	Lower	Upper
93	100		
66	37.7	30.5	45.7
65	19.2	15.9	23.9



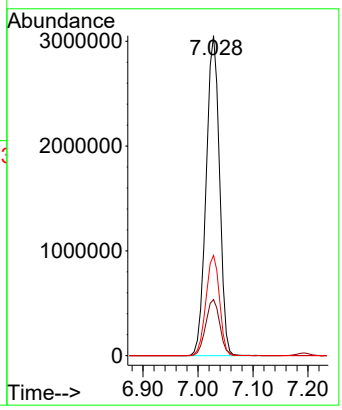


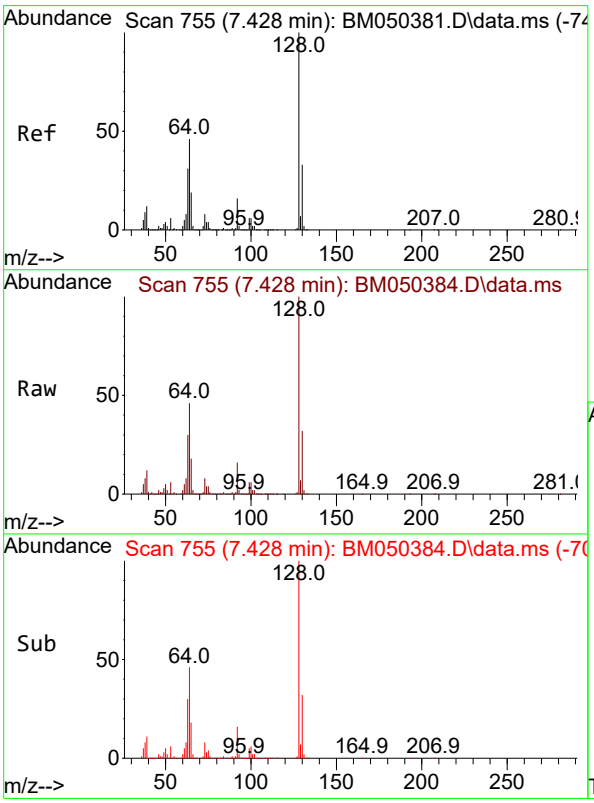
#7
Phenol-d6
Concen: 163.630 ng
RT: 7.028 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 5149049

Ion	Ratio	Lower	Upper
99	100		
42	17.6	15.0	22.6
71	31.4	25.9	38.9

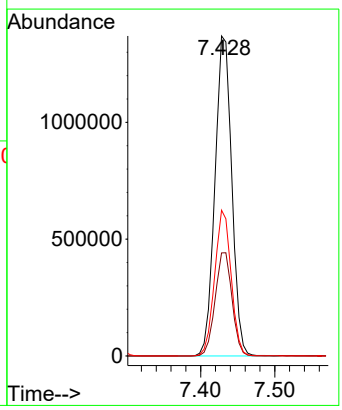


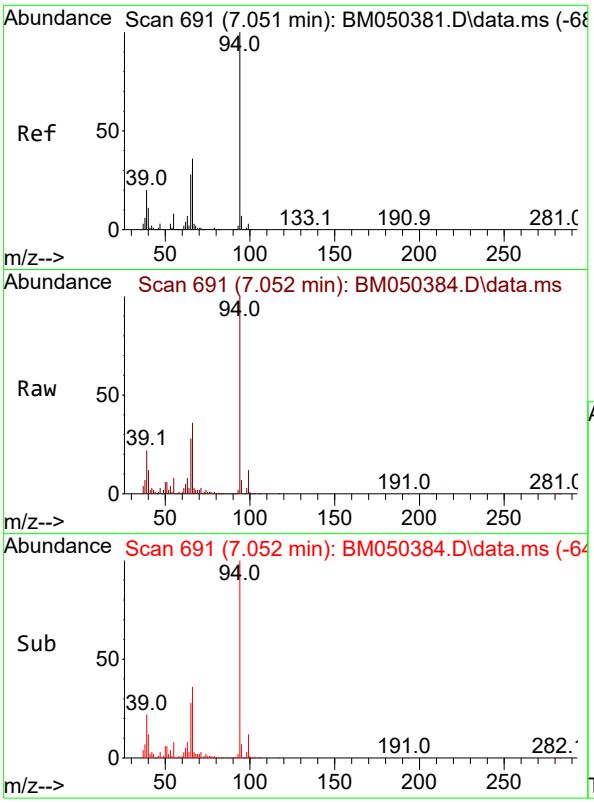


#8
2-Chlorophenol
Concen: 82.163 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:128 Resp: 2162654

Ion	Ratio	Lower	Upper
128	100		
130	32.2	13.3	53.3
64	45.6	25.6	65.6



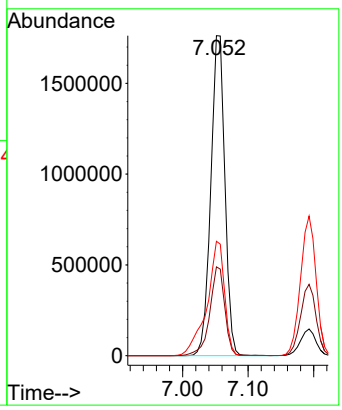


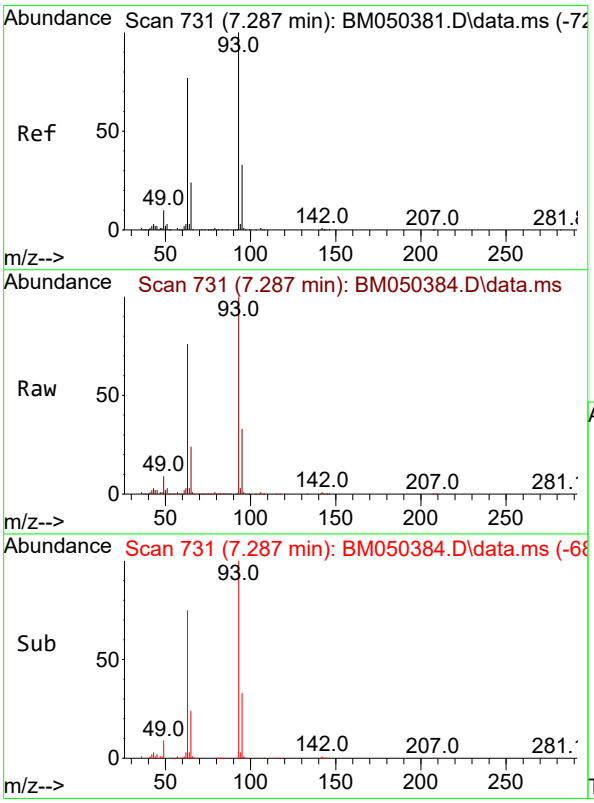
#10
Phenol
Concen: 80.368 ng
RT: 7.052 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 94 Resp: 2637766

Ion	Ratio	Lower	Upper
94	100		
65	27.8	8.1	48.1
66	35.7	15.8	55.8

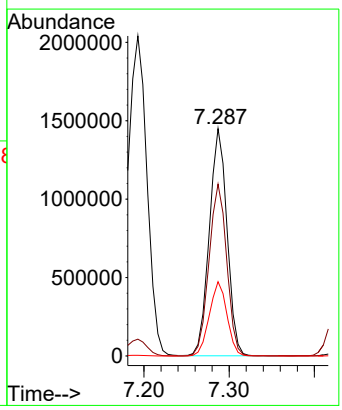


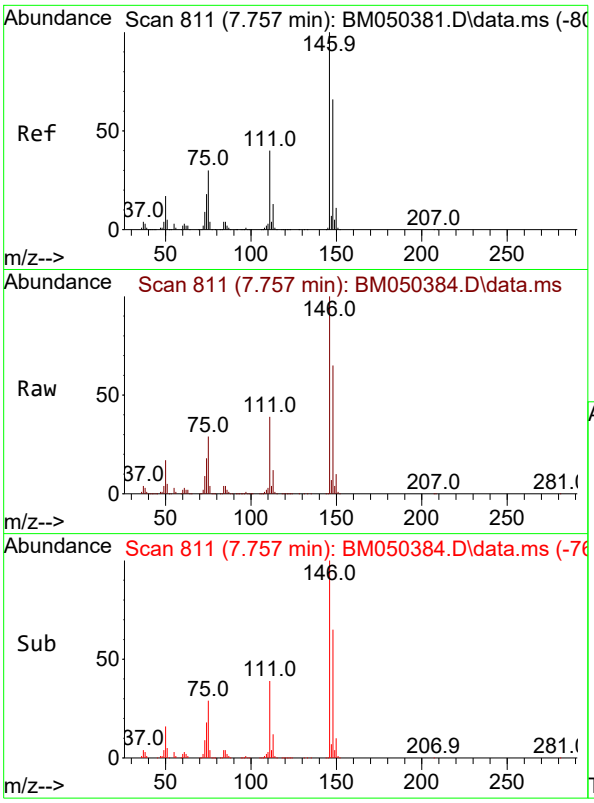


#11
bis(2-Chloroethyl)ether
Concen: 79.625 ng
RT: 7.287 min Scan# 731
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 93 Resp: 2092911

Ion	Ratio	Lower	Upper
93	100		
63	75.6	56.9	96.9
95	32.6	12.6	52.6



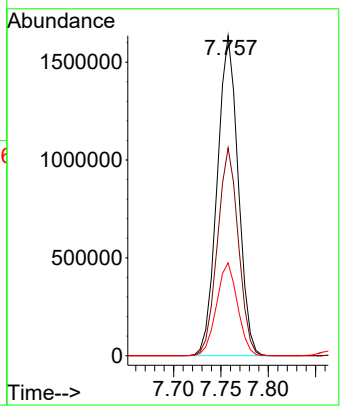


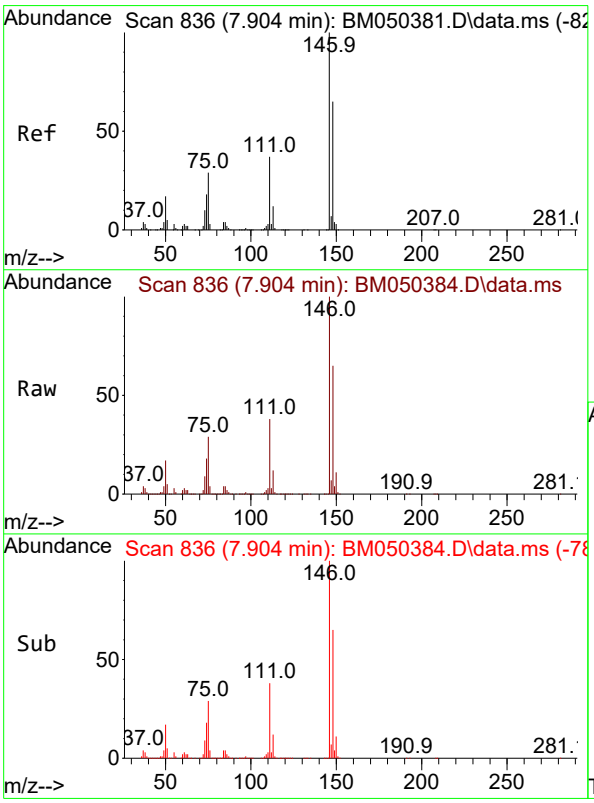
#12
1,3-Dichlorobenzene
Concen: 78.654 ng
RT: 7.757 min Scan# 81
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 2517372

Ion	Ratio	Lower	Upper
146	100		
148	65.0	53.2	79.8
75	29.0	23.9	35.9

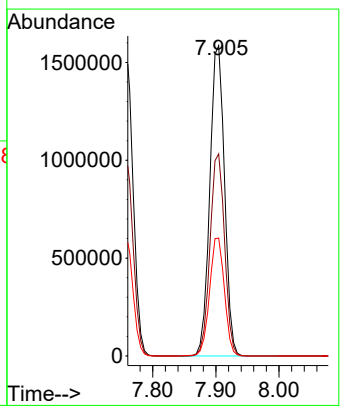


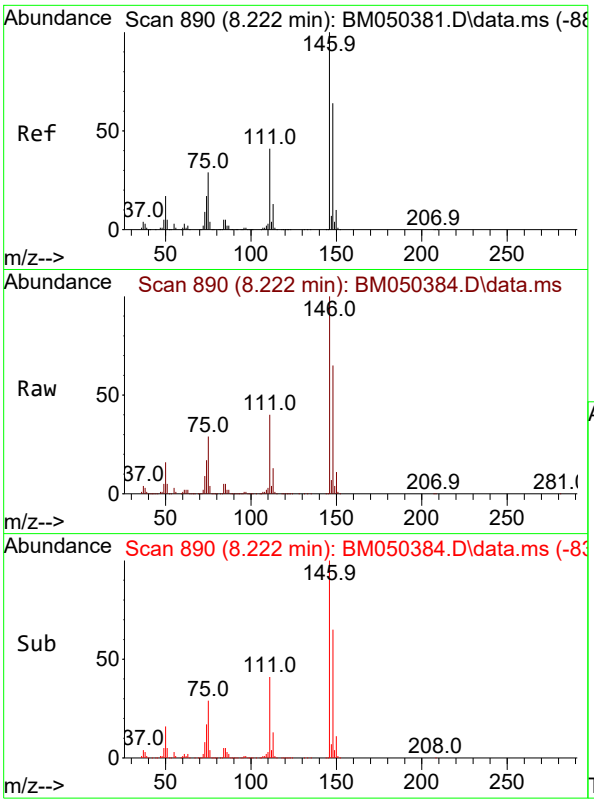


#13
1,4-Dichlorobenzene
Concen: 78.187 ng
RT: 7.904 min Scan# 836
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:146 Resp: 2555213

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.9	77.9
111	38.0	30.0	45.0



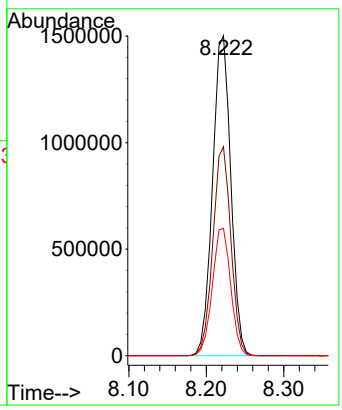


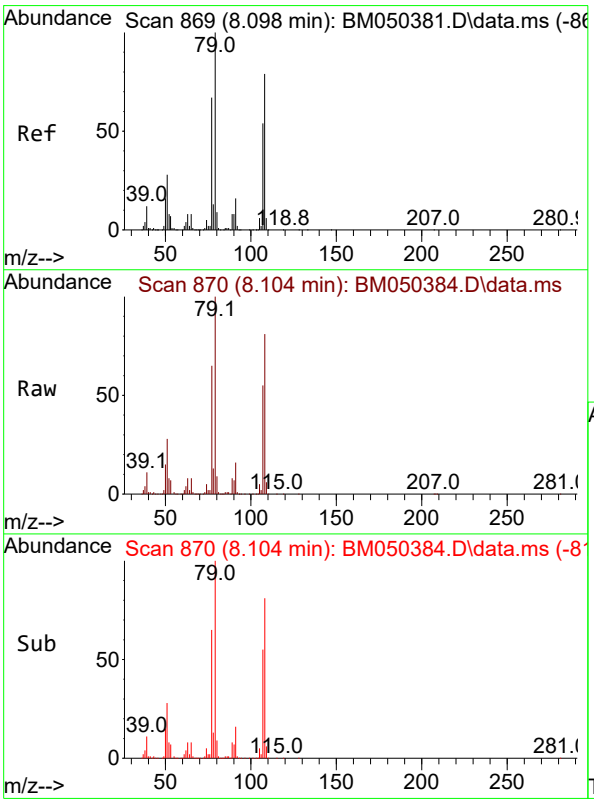
#14
1,2-Dichlorobenzene
Concen: 78.434 ng
RT: 8.222 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 2454039

Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.5	77.3
111	39.8	32.6	49.0

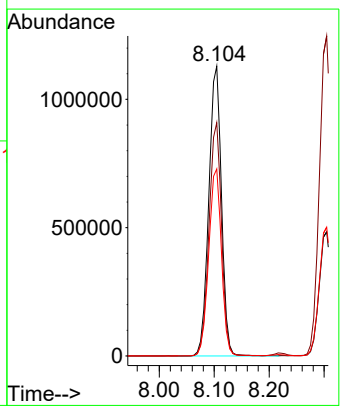


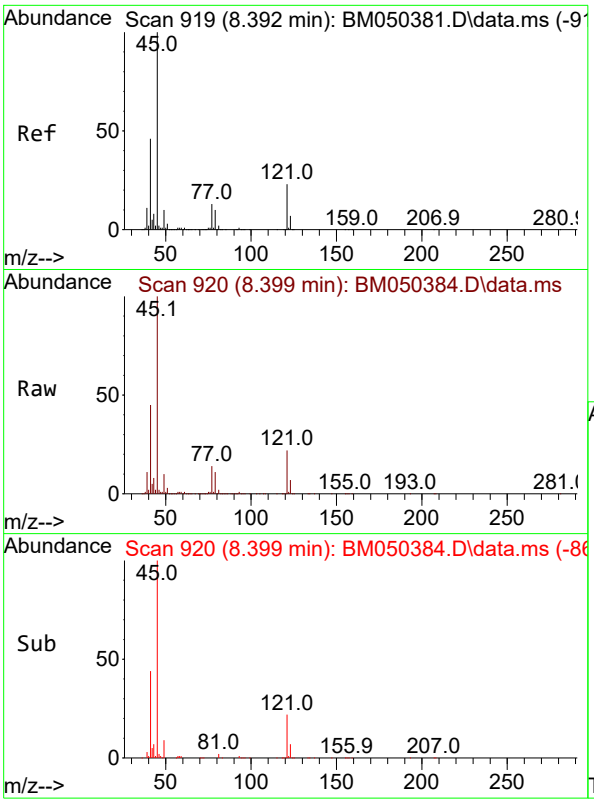


#15
Benzyl Alcohol
Concen: 81.539 ng
RT: 8.104 min Scan# 870
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 79 Resp: 1807870

Ion	Ratio	Lower	Upper
79	100		
108	80.5	63.0	94.4
77	64.5	53.4	80.0



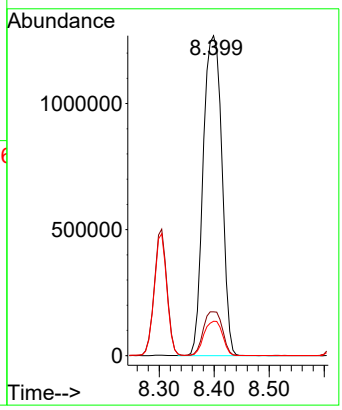


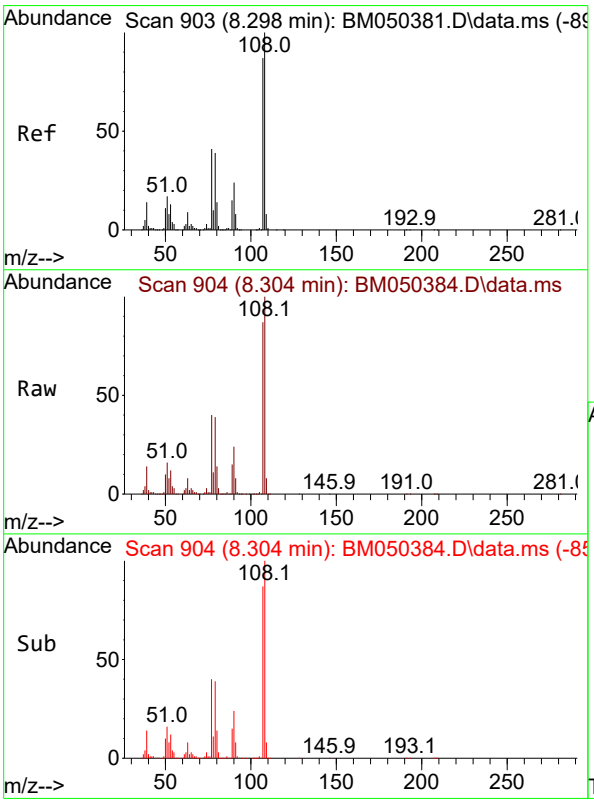
#16
2,2'-oxybis(1-Chloropropane)
Concen: 77.270 ng
RT: 8.399 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 45 Resp: 2991629

Ion	Ratio	Lower	Upper
45	100		
77	13.7	0.0	33.5
79	10.8	0.0	30.3

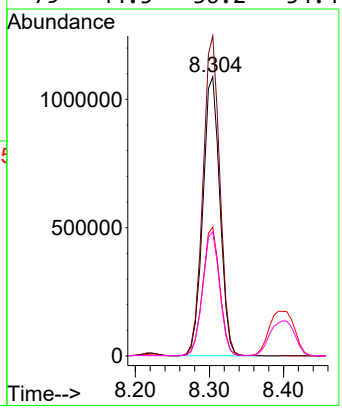


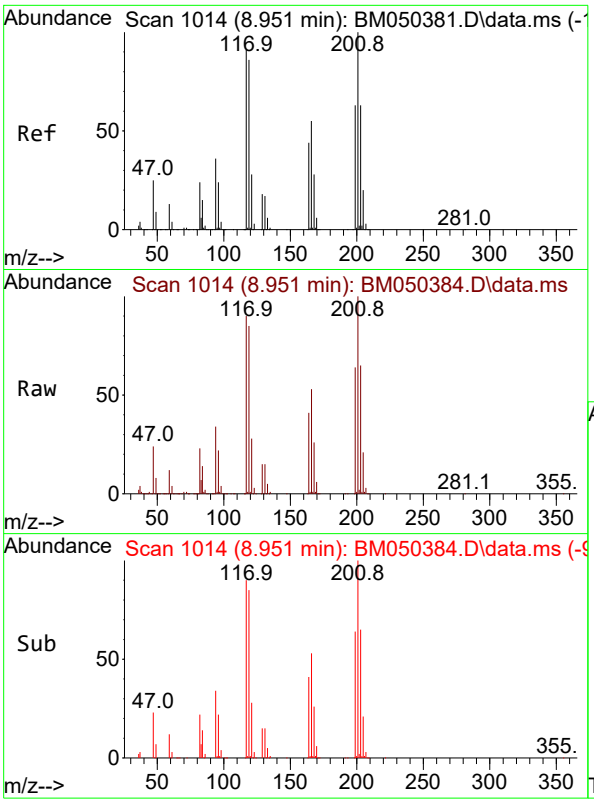


#17
2-Methylphenol
Concen: 81.397 ng
RT: 8.304 min Scan# 904
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:107 Resp: 1732716

Ion	Ratio	Lower	Upper
107	100		
108	114.6	92.1	138.1
77	46.1	38.2	57.4
79	44.5	36.2	54.4



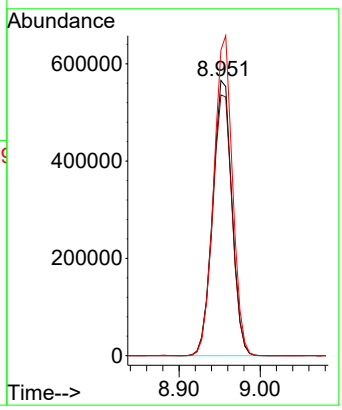


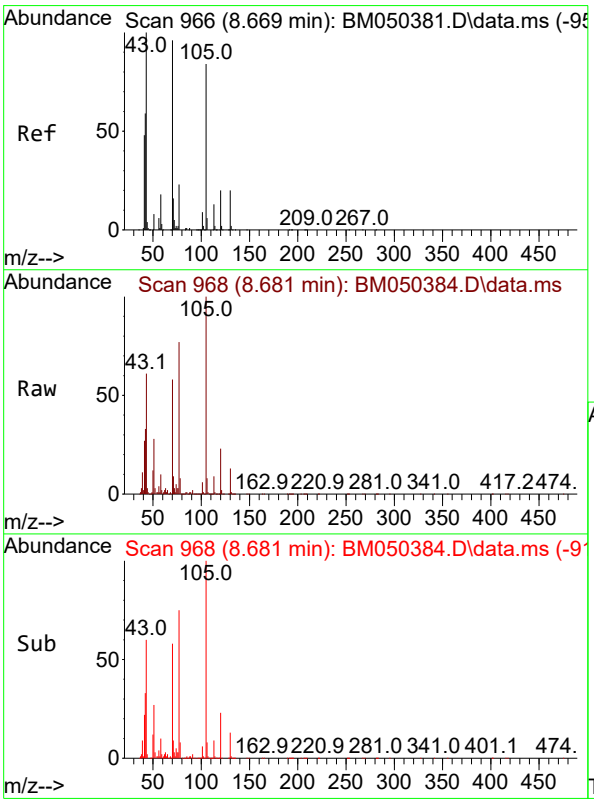
#18
Hexachloroethane
Concen: 81.135 ng
RT: 8.951 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:117 Resp: 932539

Ion	Ratio	Lower	Upper
117	100		
119	94.8	75.6	113.4
201	111.1	87.9	131.9

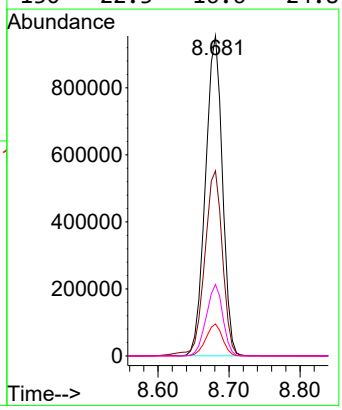


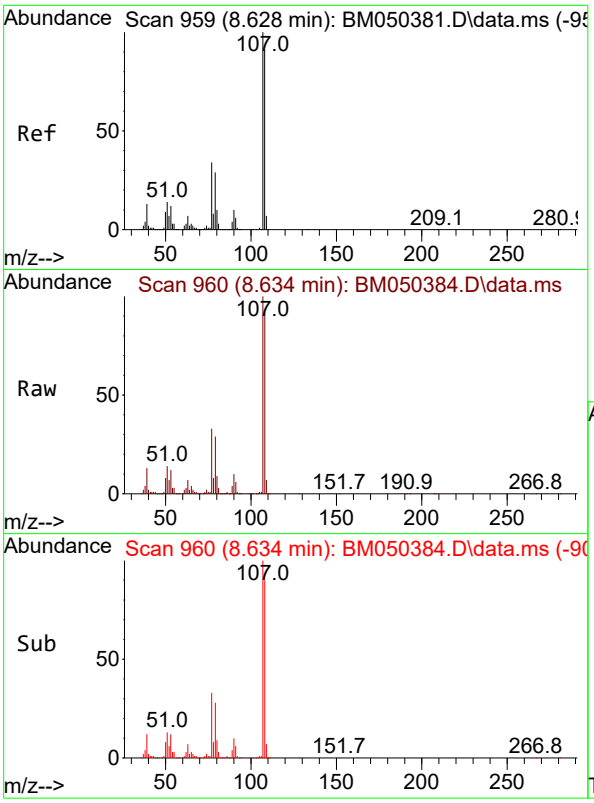


#19
n-Nitroso-di-n-propylamine
Concen: 83.281 ng
RT: 8.681 min Scan# 968
Delta R.T. 0.012 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 70 Resp: 1587587

Ion	Ratio	Lower	Upper
70	100		
42	57.9	49.7	74.5
101	10.0	7.7	11.5
130	22.3	16.6	24.8



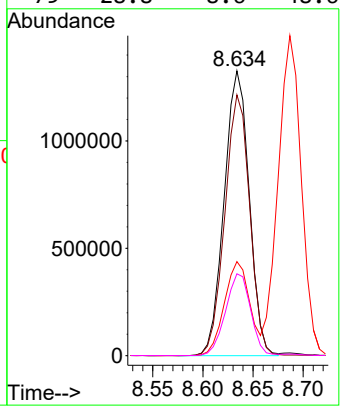


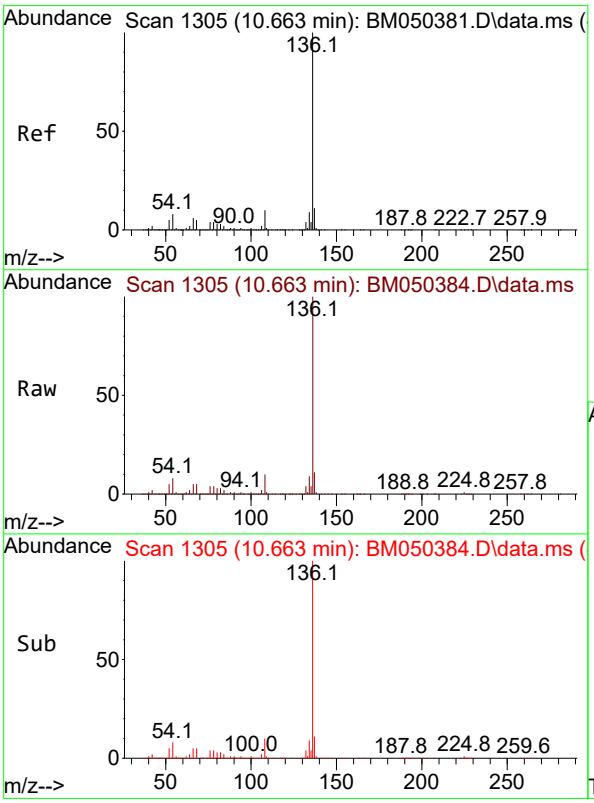
#20
3+4-Methylphenols
Concen: 80.491 ng
RT: 8.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 2300155

Ion	Ratio	Lower	Upper
107	100		
108	91.5	71.5	111.5
77	33.0	13.7	53.7
79	28.8	8.6	48.6

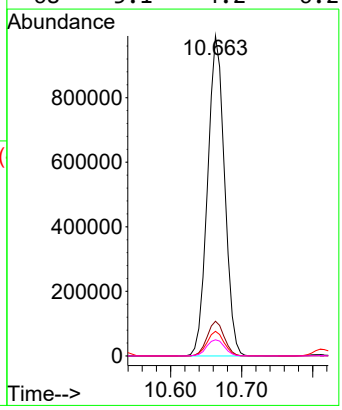


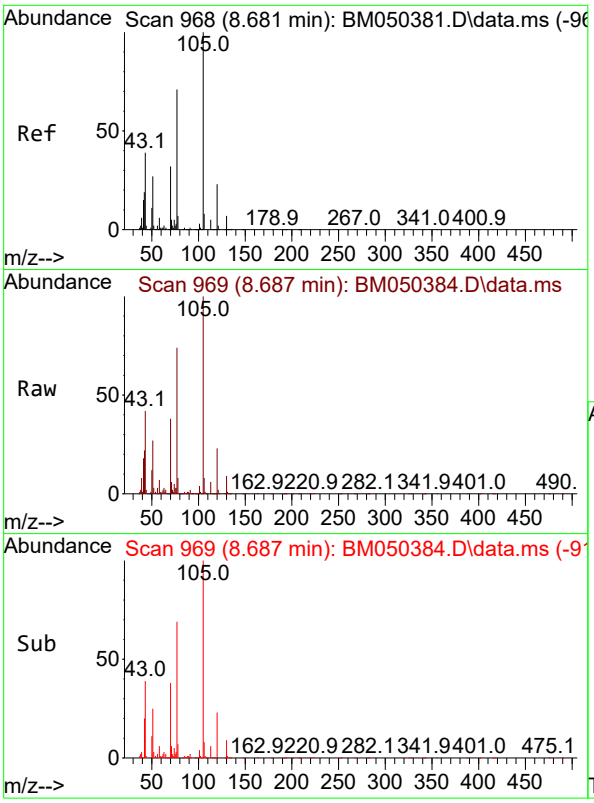


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:136 Resp: 1643859

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.7	6.3	9.5
68	5.1	4.2	6.2



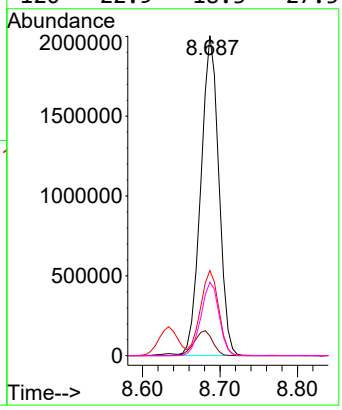


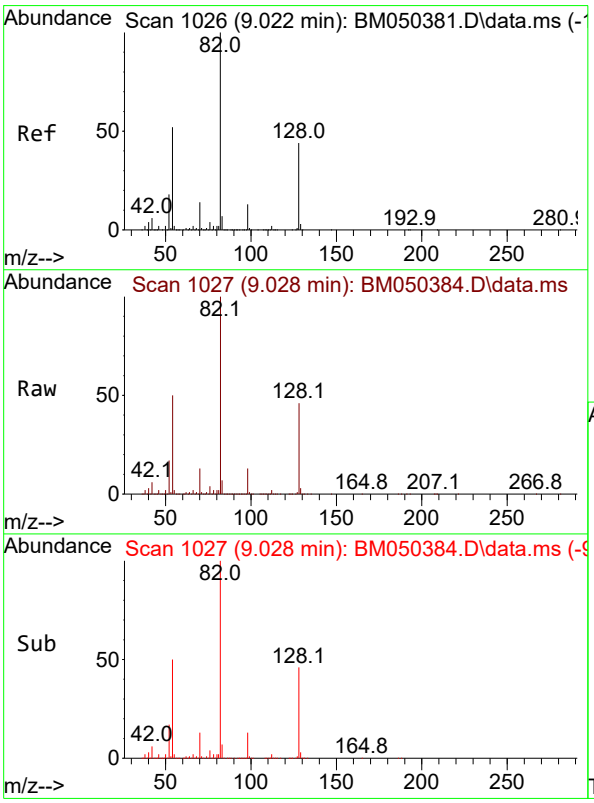
#22
Acetophenone
Concen: 78.279 ng
RT: 8.687 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:105 Resp: 3217324

Ion	Ratio	Lower	Upper
105	100		
71	6.2	4.4	6.6
51	26.6	23.0	34.6
120	22.9	18.3	27.5

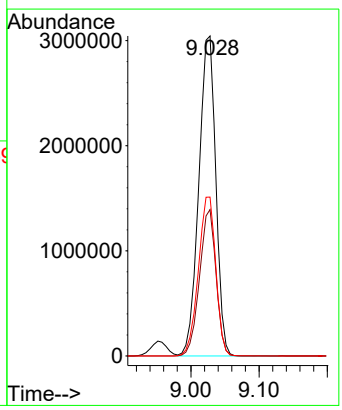


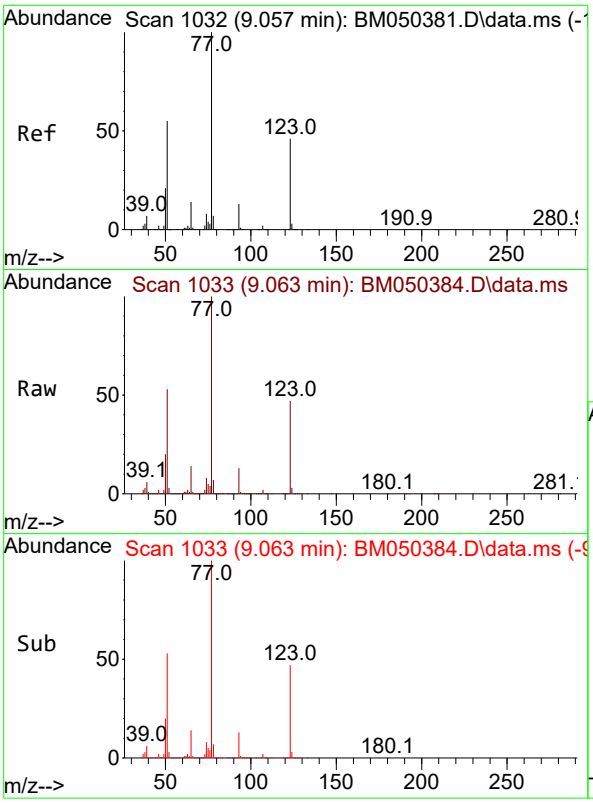


#23
Nitrobenzene-d5
Concen: 163.391 ng
RT: 9.028 min Scan# 1027
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 82 Resp: 5264647

Ion	Ratio	Lower	Upper
82	100		
128	45.7	35.2	52.8
54	49.7	41.5	62.3



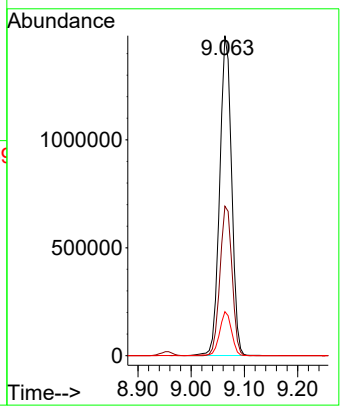


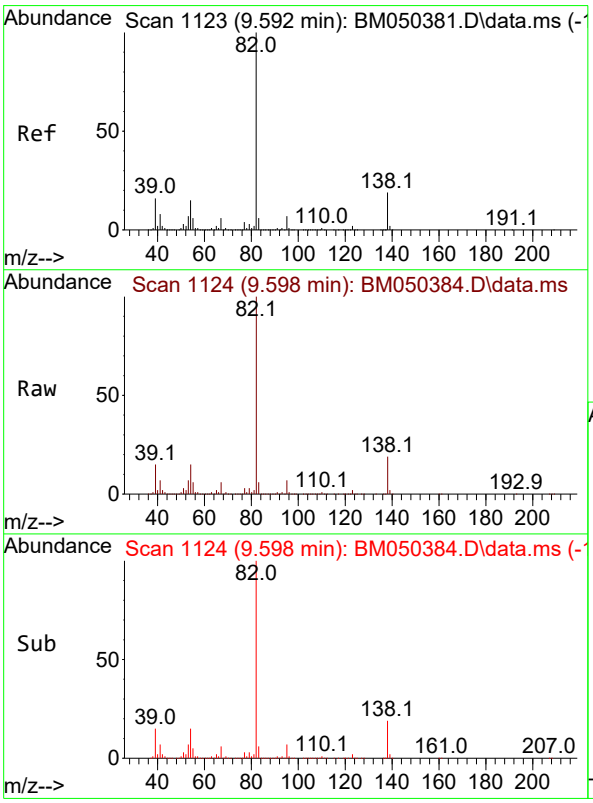
#24
Nitrobenzene
Concen: 79.875 ng
RT: 9.063 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 2296616

Ion	Ratio	Lower	Upper
77	100		
123	46.7	37.0	55.6
65	13.8	11.0	16.4

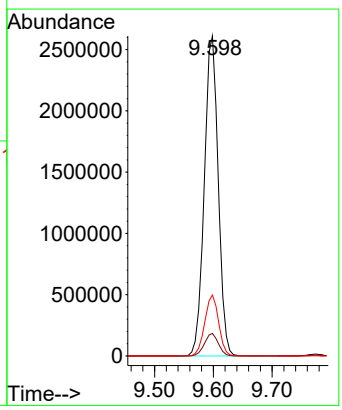


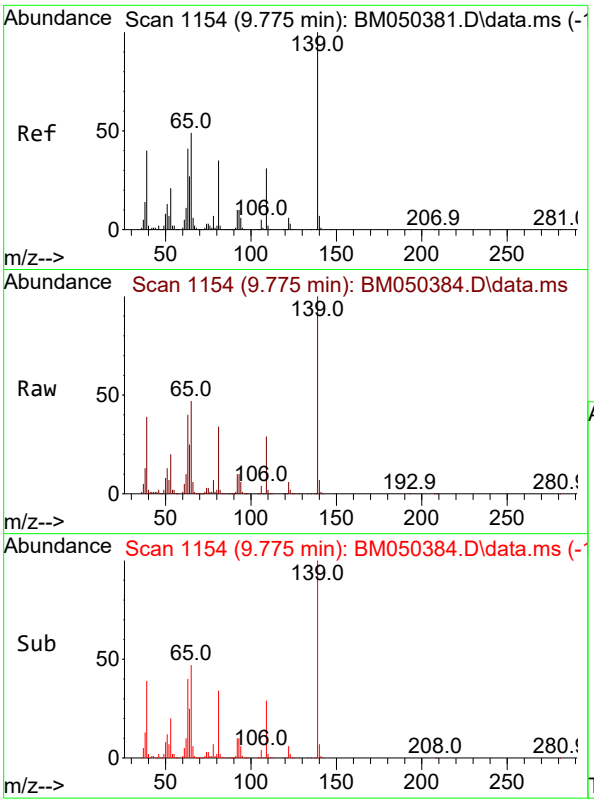


#25
Isophorone
Concen: 82.044 ng
RT: 9.598 min Scan# 1124
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 82 Resp: 4289620

Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	19.0	15.3	22.9



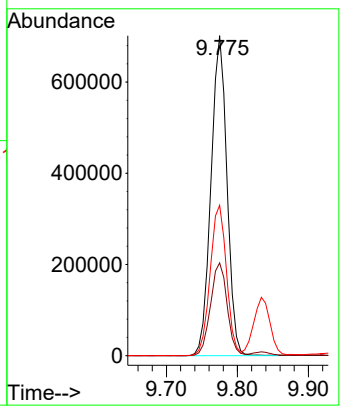


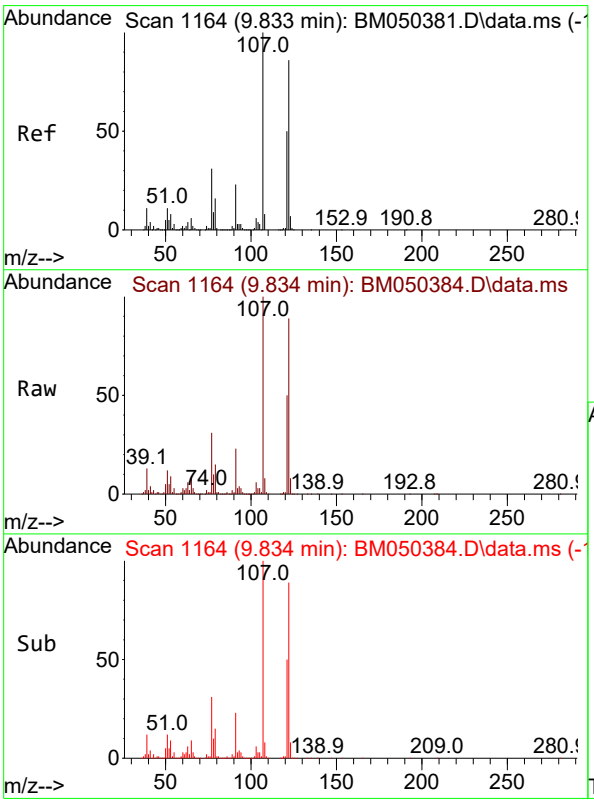
#26
2-Nitrophenol
Concen: 93.448 ng
RT: 9.775 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 1095059

Ion	Ratio	Lower	Upper
139	100		
109	29.0	24.6	36.8
65	47.0	39.2	58.8

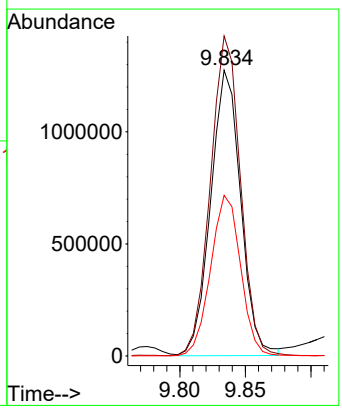


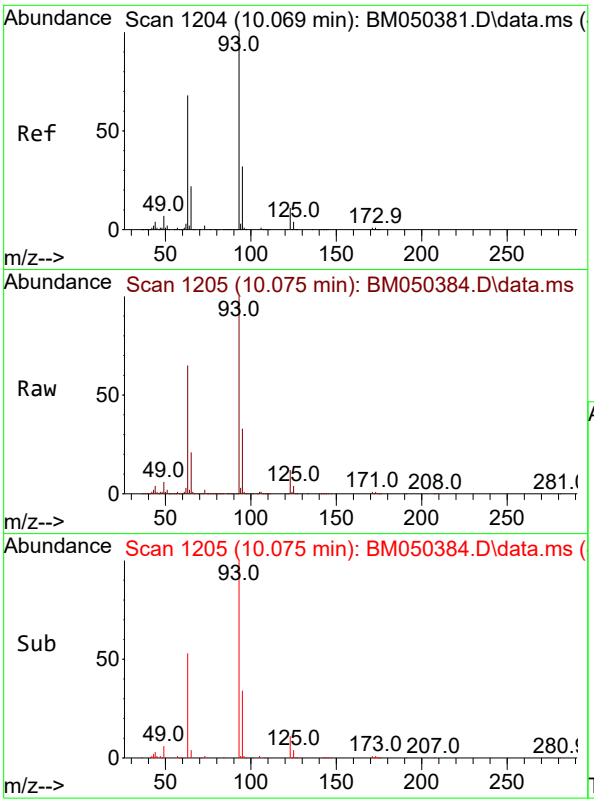


#27
2,4-Dimethylphenol
Concen: 81.267 ng
RT: 9.834 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:122 Resp: 2026460

Ion	Ratio	Lower	Upper
122	100		
107	112.0	93.0	139.6
121	56.2	46.1	69.1



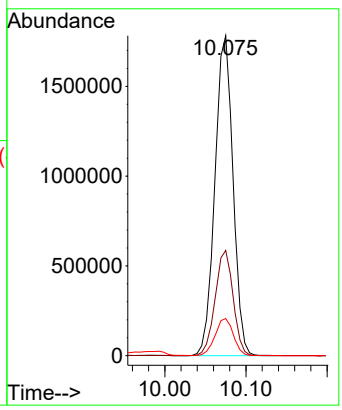


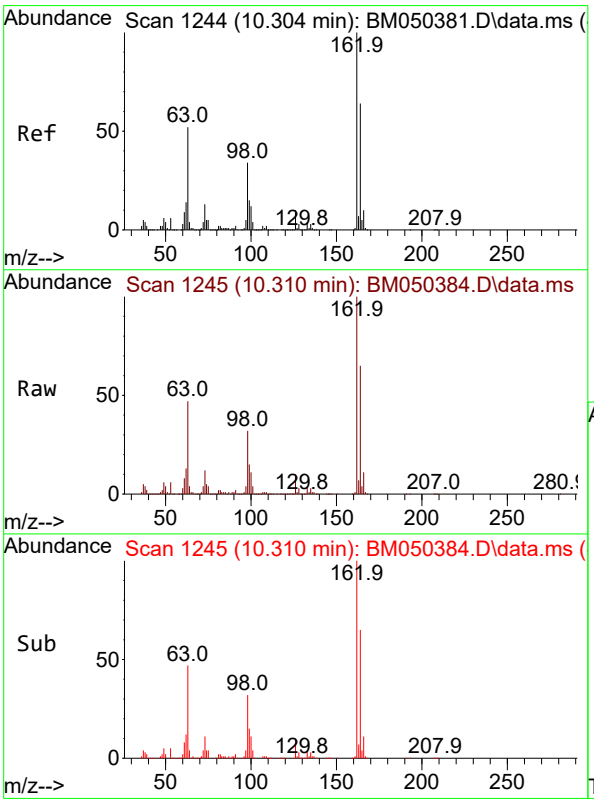
#28
bis(2-Chloroethoxy)methane
Concen: 79.691 ng
RT: 10.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 2760921

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.8	38.6
123	11.6	9.1	13.7

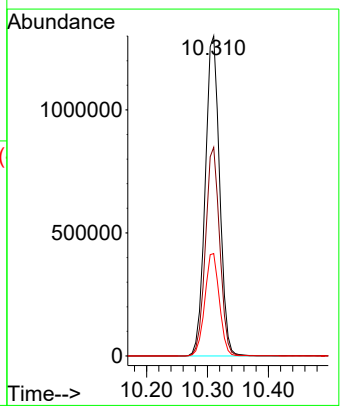


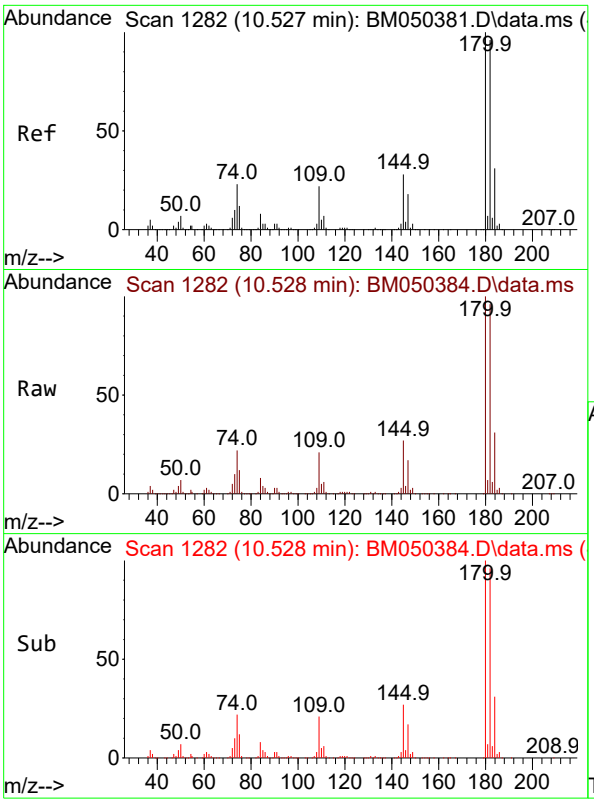


#29
2,4-Dichlorophenol
Concen: 83.334 ng
RT: 10.310 min Scan# 1245
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:162 Resp: 2134843

Ion	Ratio	Lower	Upper
162	100		
164	65.2	43.7	83.7
98	32.0	13.7	53.7



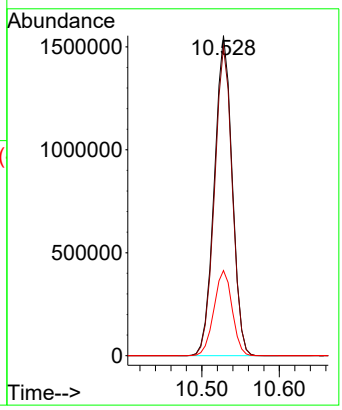


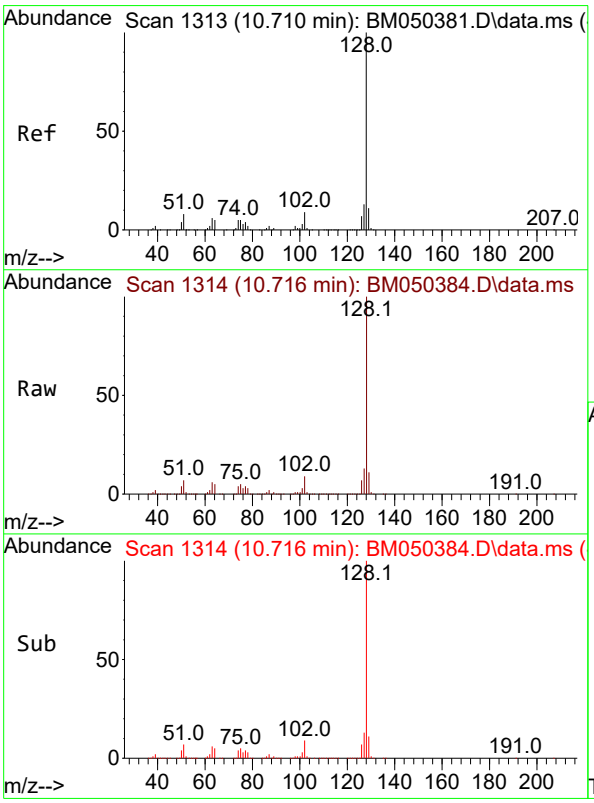
#30
1,2,4-Trichlorobenzene
Concen: 81.052 ng
RT: 10.528 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:180 Resp: 2483928

Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.8	115.2
145	26.6	22.6	33.8

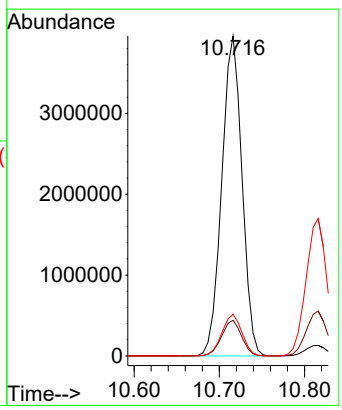


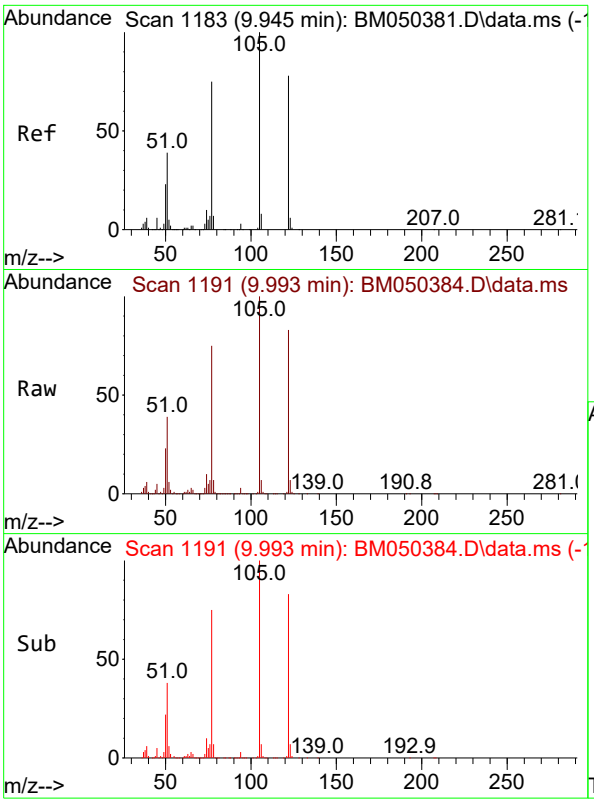


#31
Naphthalene
Concen: 78.095 ng
RT: 10.716 min Scan# 1314
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:128 Resp: 6520664

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.0	10.4	15.6



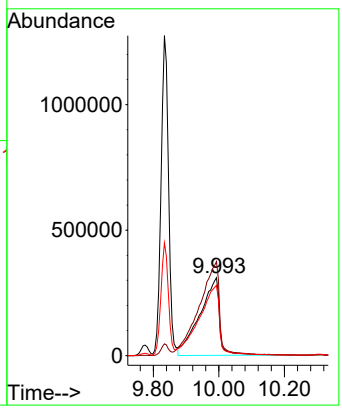


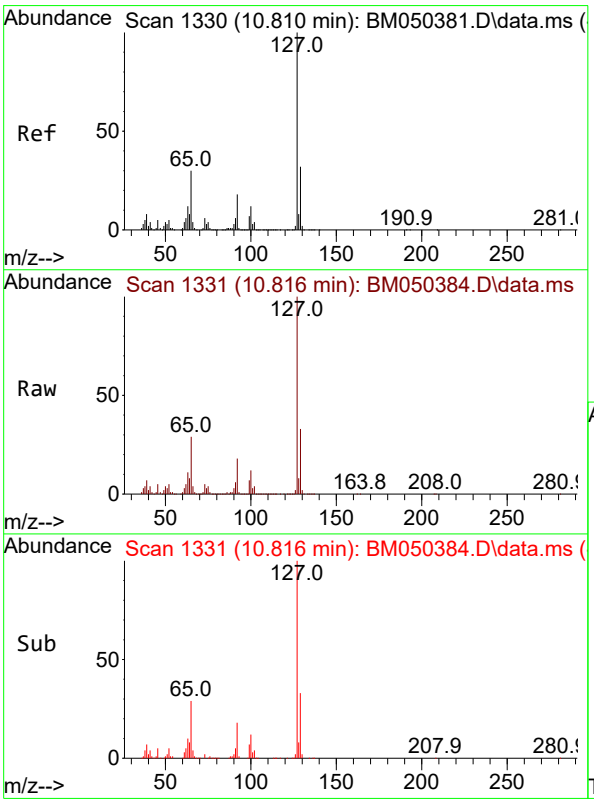
#32
Benzoic acid
Concen: 81.001 ng
RT: 9.993 min Scan# 11
Delta R.T. 0.048 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 1311597

Ion	Ratio	Lower	Upper
122	100		
105	120.8	104.0	144.0
77	90.4	73.8	113.8

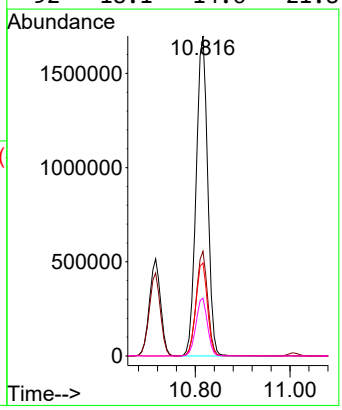


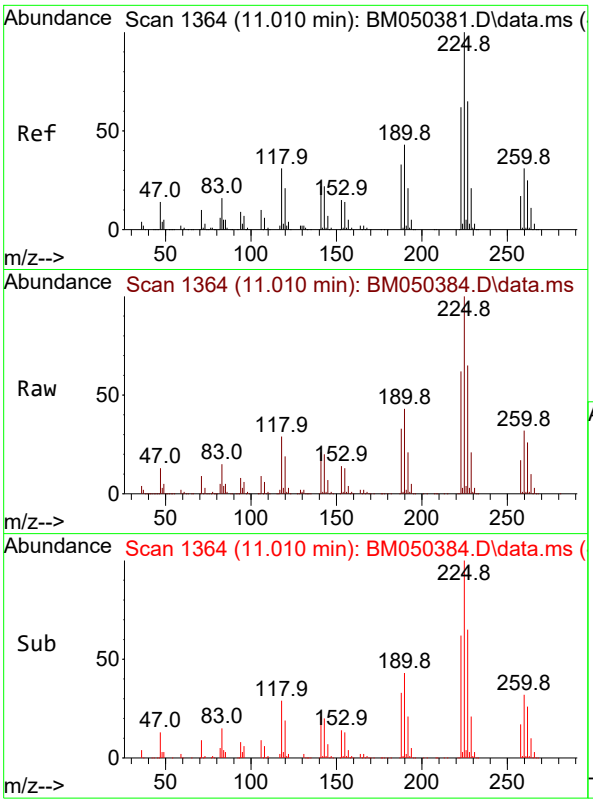


#33
4-Chloroaniline
Concen: 81.395 ng
RT: 10.816 min Scan# 1331
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:127 Resp: 2873151

Ion	Ratio	Lower	Upper
127	100		
129	32.7	25.5	38.3
65	29.1	23.9	35.9
92	18.1	14.6	21.8



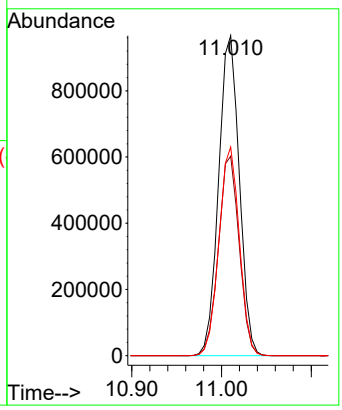


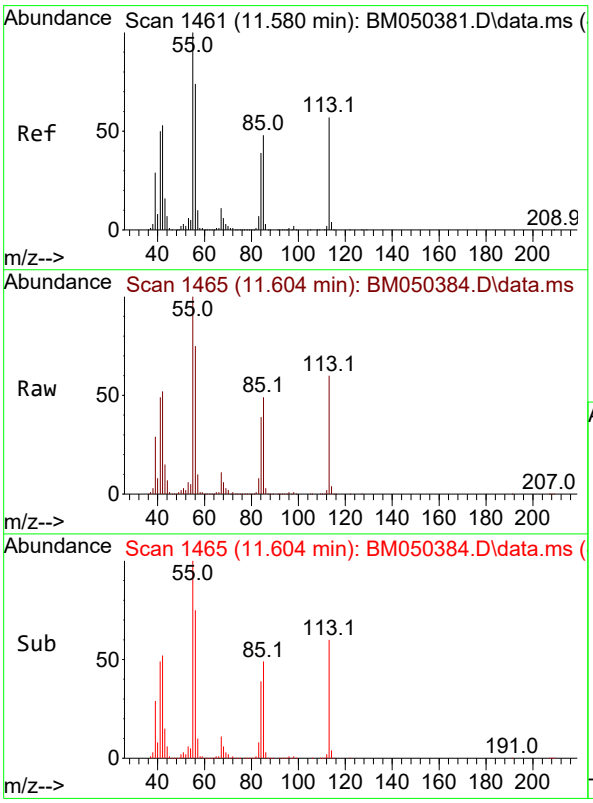
#34
Hexachlorobutadiene
Concen: 82.684 ng
RT: 11.010 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:225 Resp: 1546563

Ion	Ratio	Lower	Upper
225	100		
223	62.4	49.7	74.5
227	65.2	52.1	78.1

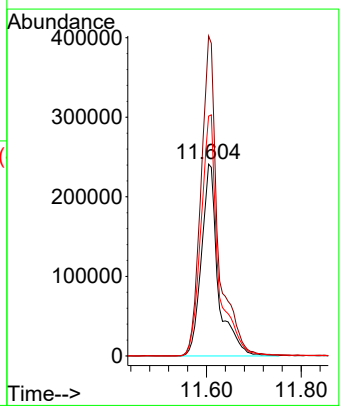


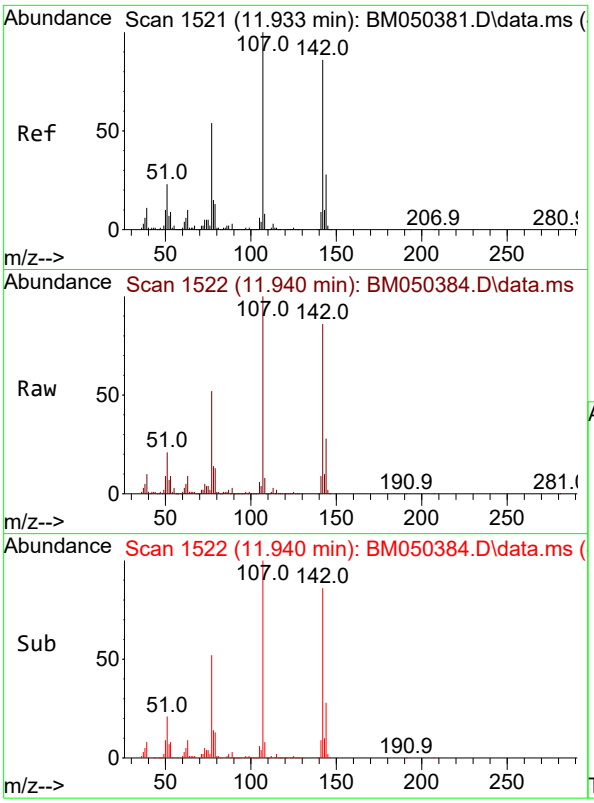


#35
Caprolactam
Concen: 84.949 ng
RT: 11.604 min Scan# 1465
Delta R.T. 0.024 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:113 Resp: 594080

Ion	Ratio	Lower	Upper
113	100		
55	166.9	157.2	197.2
56	125.0	111.7	151.7



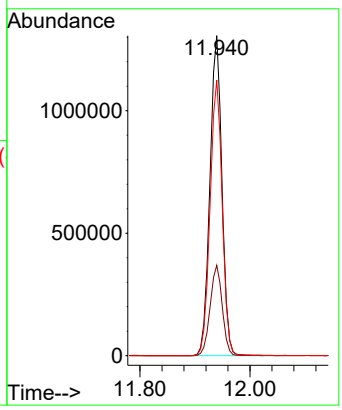


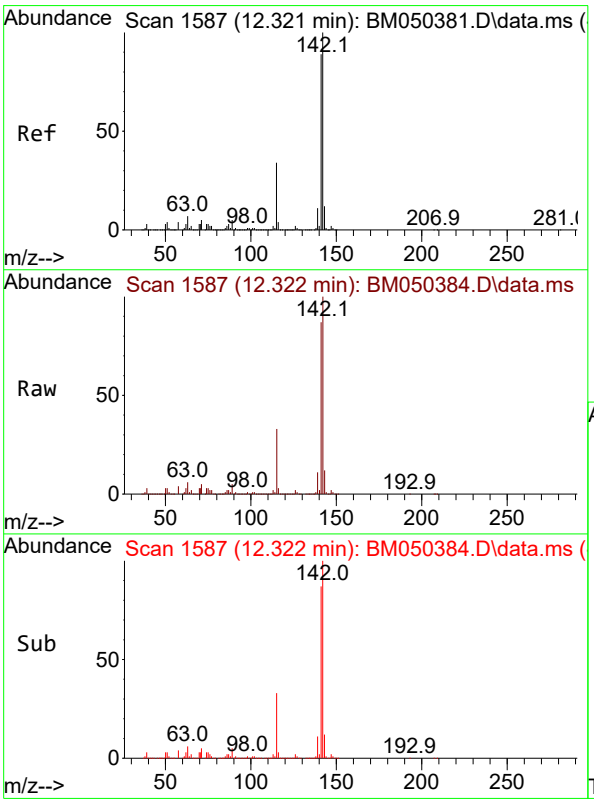
#36
4-Chloro-3-methylphenol
Concen: 82.929 ng
RT: 11.940 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 1983864

Ion	Ratio	Lower	Upper
107	100		
144	28.3	22.2	33.4
142	86.2	68.7	103.1

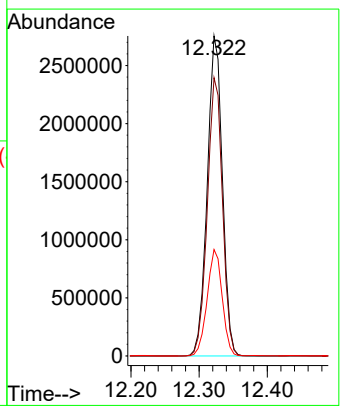


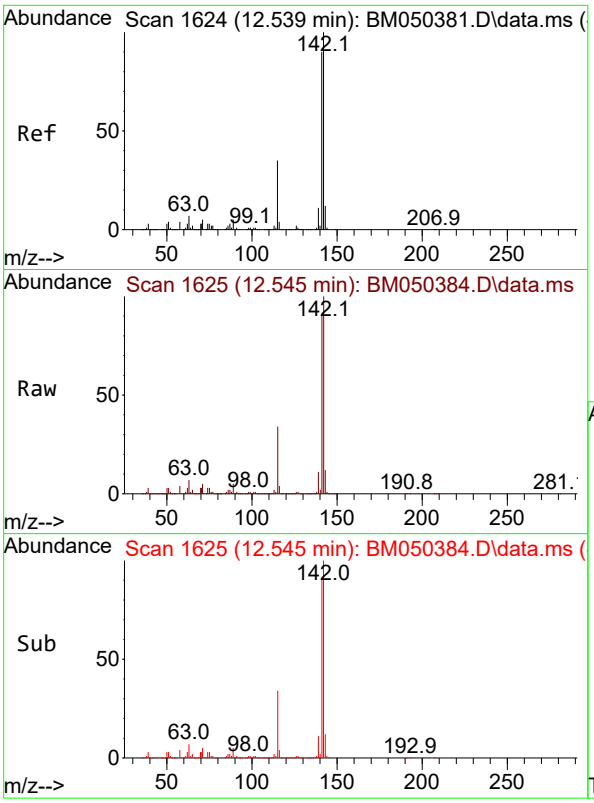


#37
2-Methylnaphthalene
Concen: 80.705 ng
RT: 12.322 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:142 Resp: 4254768

Ion	Ratio	Lower	Upper
142	100		
141	86.9	70.8	106.2
115	33.2	27.0	40.4



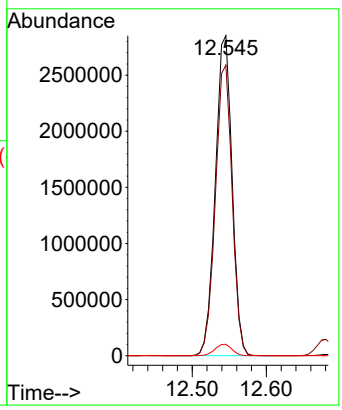


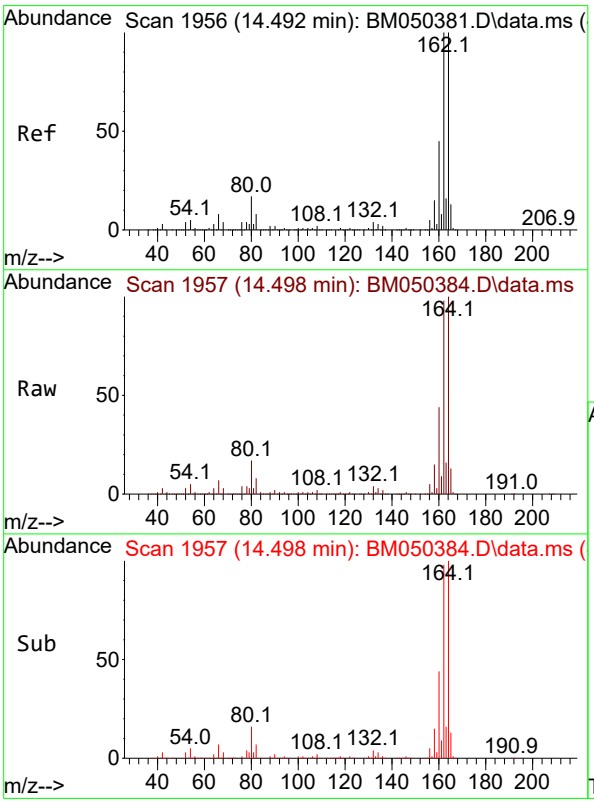
#38
1-Methylnaphthalene
Concen: 80.207 ng
RT: 12.545 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 4475032

Ion	Ratio	Lower	Upper
142	100		
141	90.8	71.9	107.9
116	3.6	3.0	4.6

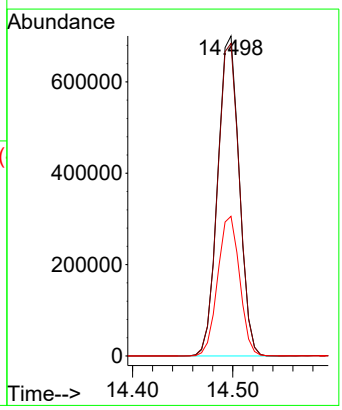


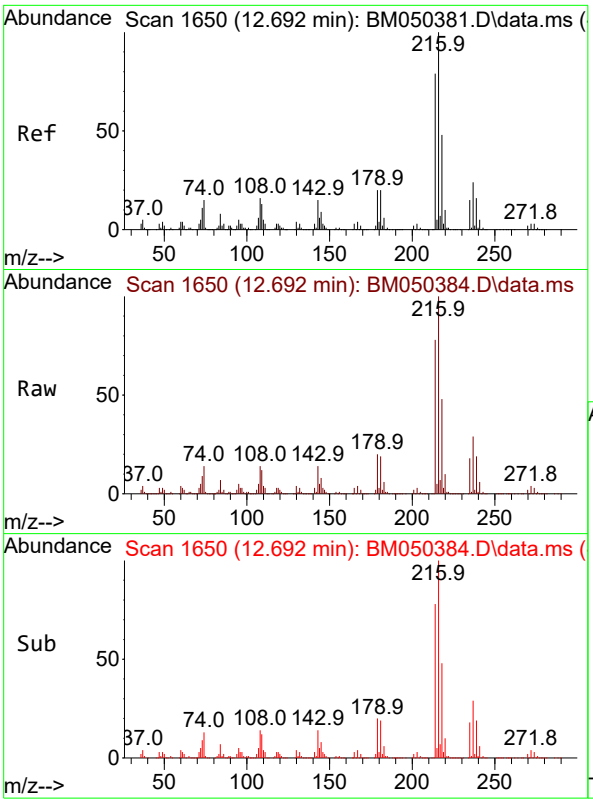


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.498 min Scan# 1957
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:164 Resp: 1043719

Ion	Ratio	Lower	Upper
164	100		
162	97.6	79.9	119.9
160	43.6	36.2	54.4



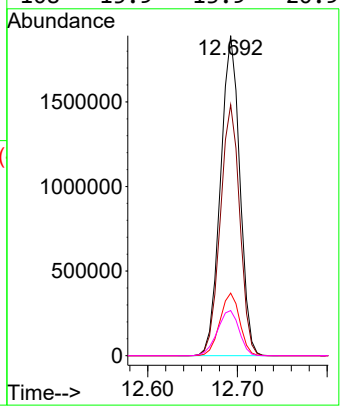


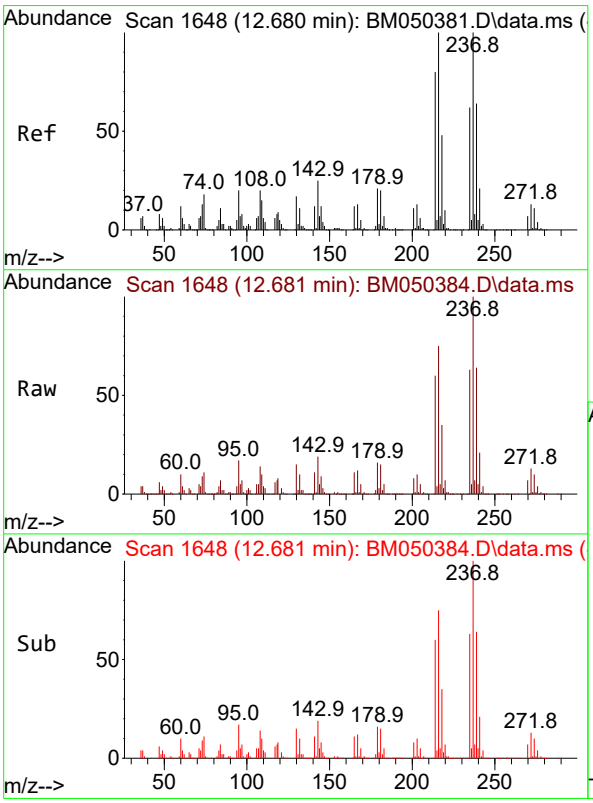
#40
1,2,4,5-Tetrachlorobenzene
Concen: 85.112 ng
RT: 12.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:216 Resp: 2824950

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.3	94.9
179	20.0	16.4	24.6
108	15.9	13.9	20.9

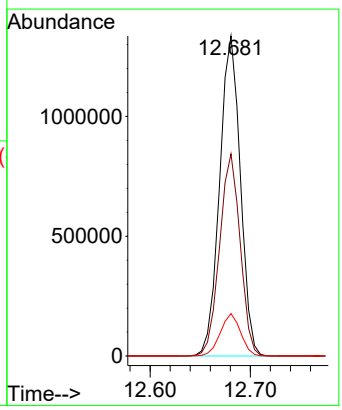


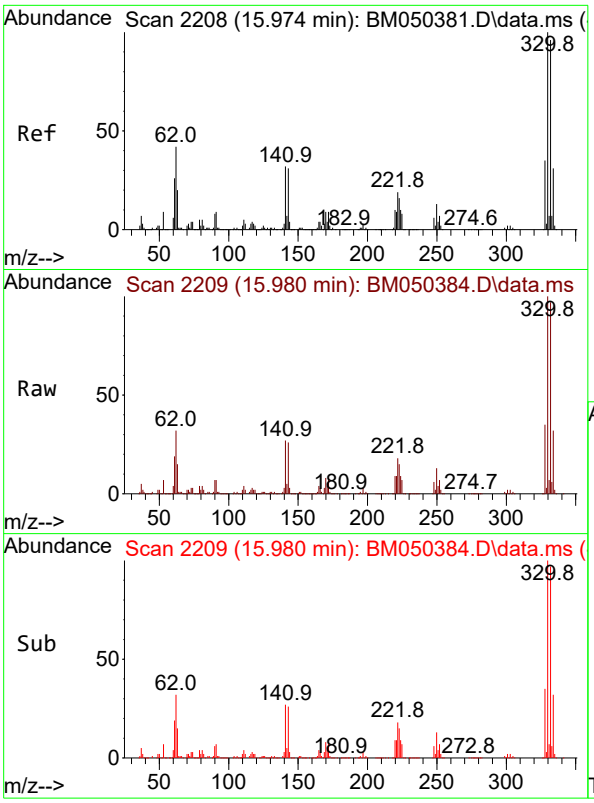


#41
Hexachlorocyclopentadiene
Concen: 90.239 ng
RT: 12.681 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:237 Resp: 1914528

Ion	Ratio	Lower	Upper
237	100		
235	63.1	42.3	82.3
272	13.2	0.0	33.0



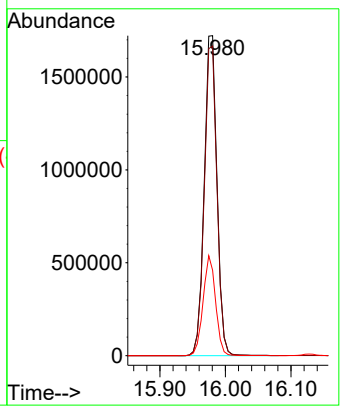


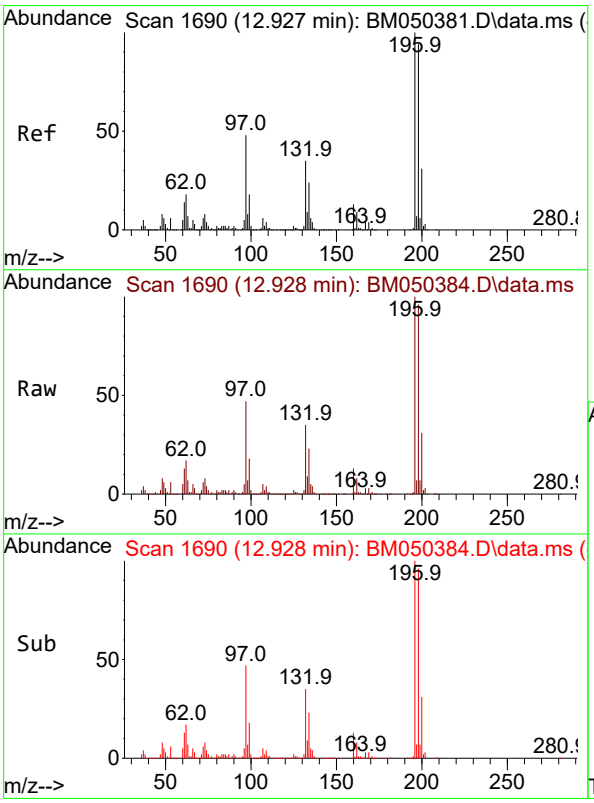
#42
2,4,6-Tribromophenol
Concen: 184.182 ng
RT: 15.980 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:330 Resp: 2335664

Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.9	115.3
141	30.7	27.4	41.0

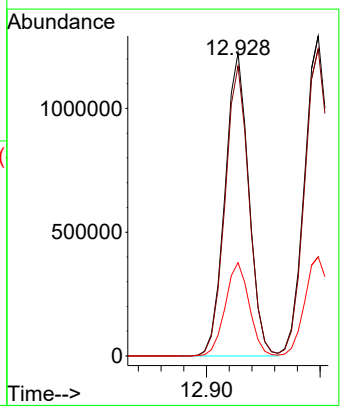


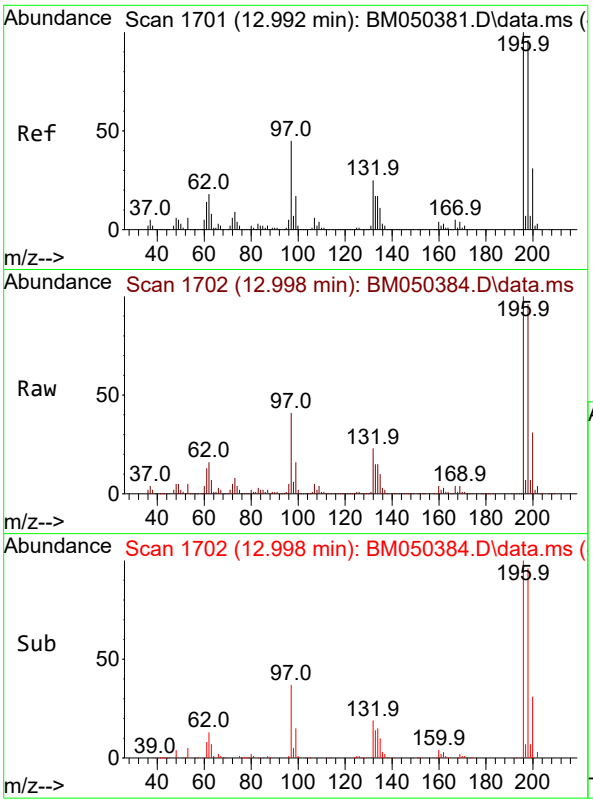


#43
2,4,6-Trichlorophenol
Concen: 87.263 ng
RT: 12.928 min Scan# 1690
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:196 Resp: 1782842

Ion	Ratio	Lower	Upper
196	100		
198	95.6	75.1	112.7
200	30.8	24.6	37.0



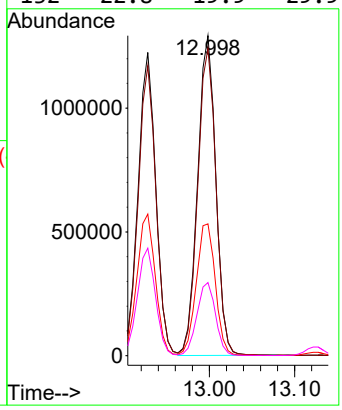


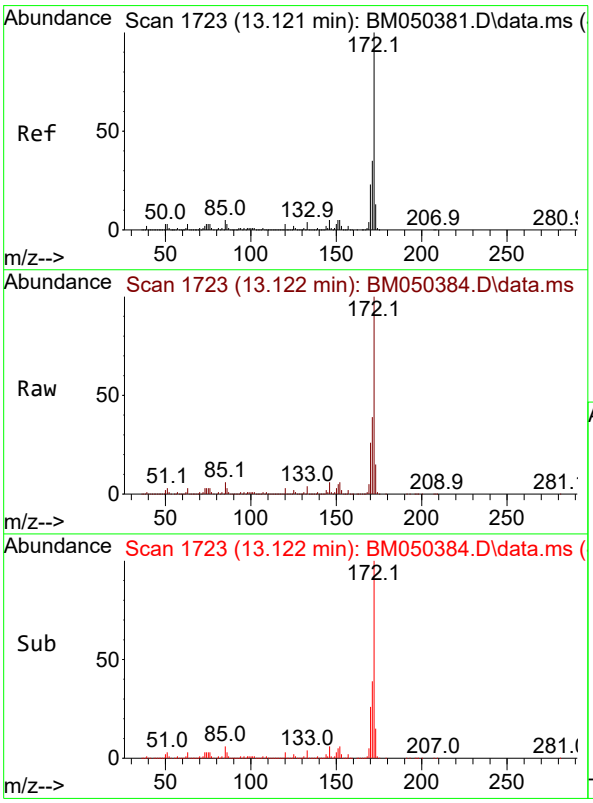
#44
2,4,5-Trichlorophenol
Concen: 86.021 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 1919360

Ion	Ratio	Lower	Upper
196	100		
198	96.0	77.2	115.8
97	41.2	36.2	54.4
132	22.8	19.9	29.9

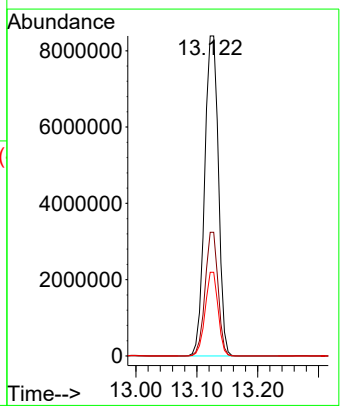


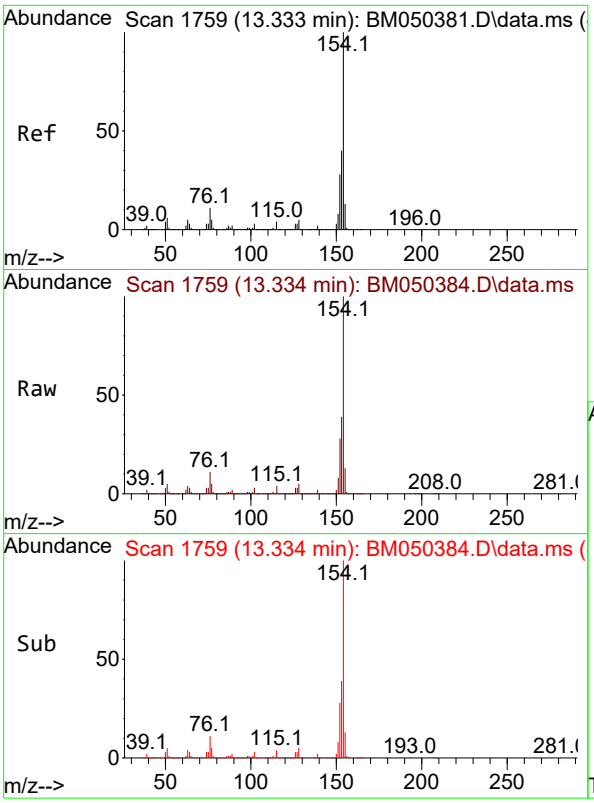


#45
2-Fluorobiphenyl
Concen: 155.576 ng
RT: 13.122 min Scan# 1723
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:172 Resp:13148691

Ion	Ratio	Lower	Upper
172	100		
171	38.6	27.7	41.5
170	26.2	18.8	28.2



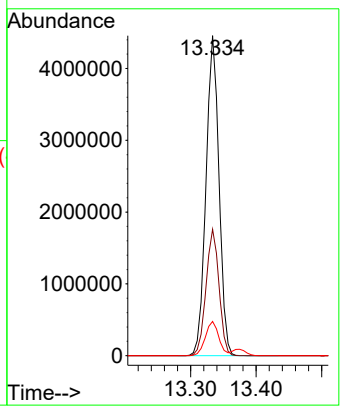


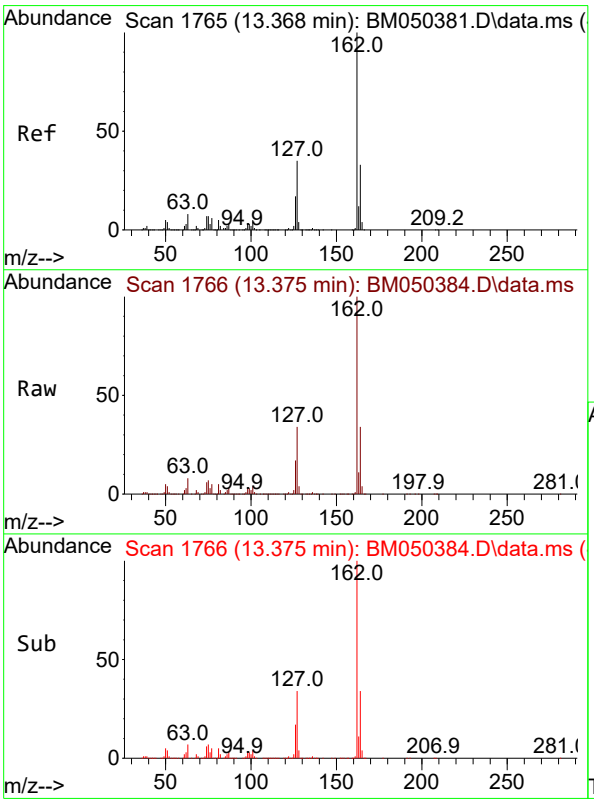
#46
1,1'-Biphenyl
Concen: 79.310 ng
RT: 13.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 6141549

Ion	Ratio	Lower	Upper
154	100		
153	39.5	19.7	59.7
76	10.7	0.0	30.9

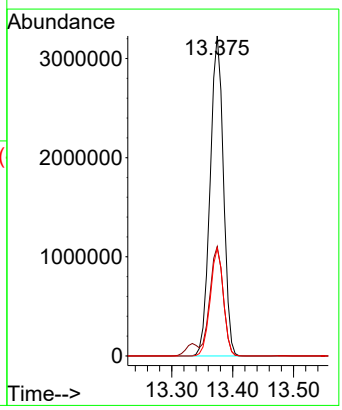


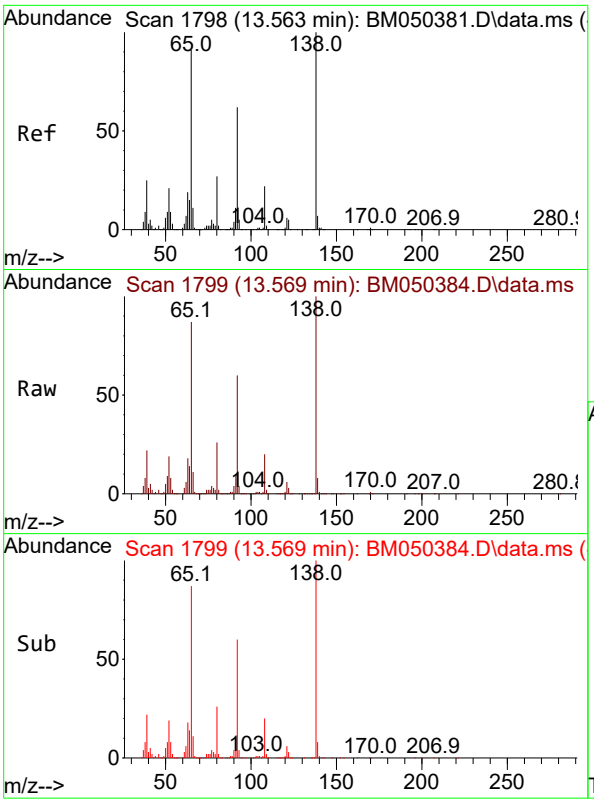


#47
2-Chloronaphthalene
Concen: 79.196 ng
RT: 13.375 min Scan# 1766
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:162 Resp: 4889665

Ion	Ratio	Lower	Upper
162	100		
127	34.2	28.3	42.5
164	33.6	26.6	40.0



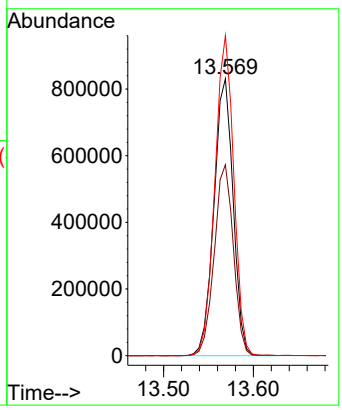


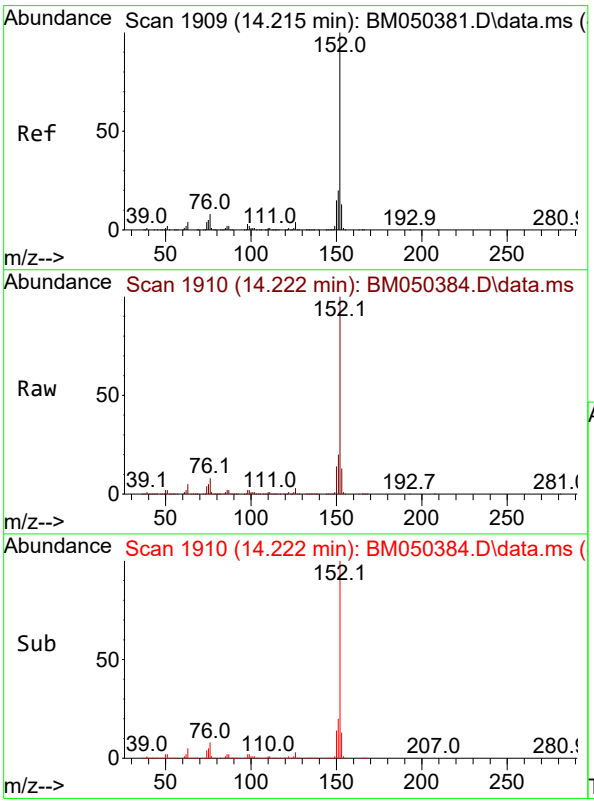
#48
2-Nitroaniline
Concen: 89.485 ng
RT: 13.569 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion: 65 Resp: 1233222

Ion	Ratio	Lower	Upper
65	100		
92	68.9	54.3	81.5
138	115.5	87.8	131.6

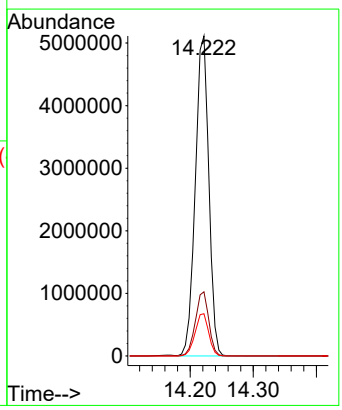


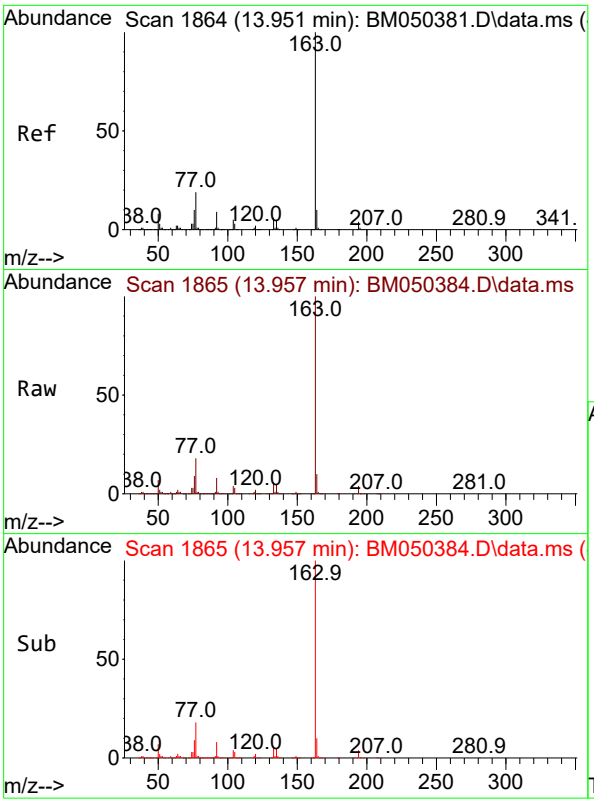


#49
Acenaphthylene
Concen: 81.019 ng
RT: 14.222 min Scan# 1910
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:152 Resp: 7559726

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.2	10.6	15.8



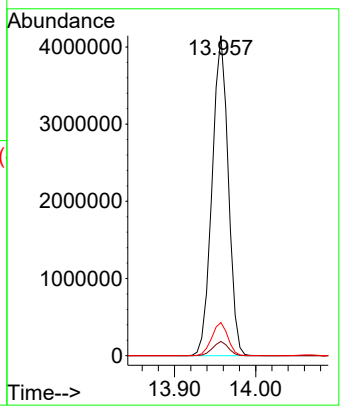


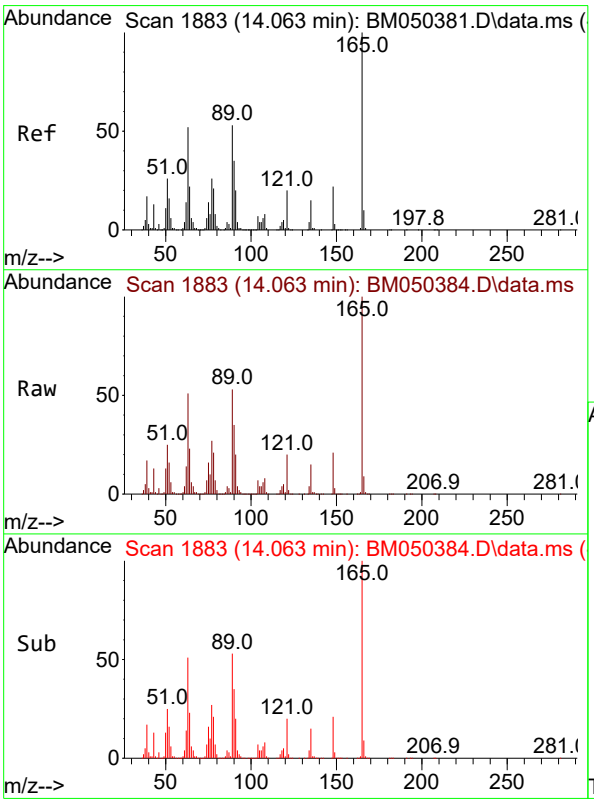
#50
Dimethylphthalate
Concen: 79.779 ng
RT: 13.957 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:163 Resp: 5732691

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.4	8.2	12.2

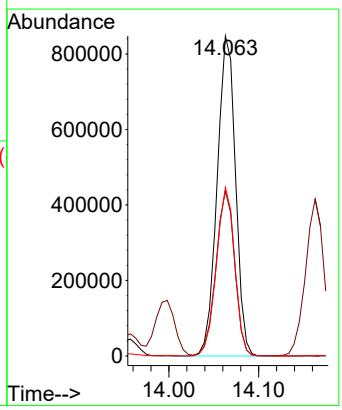


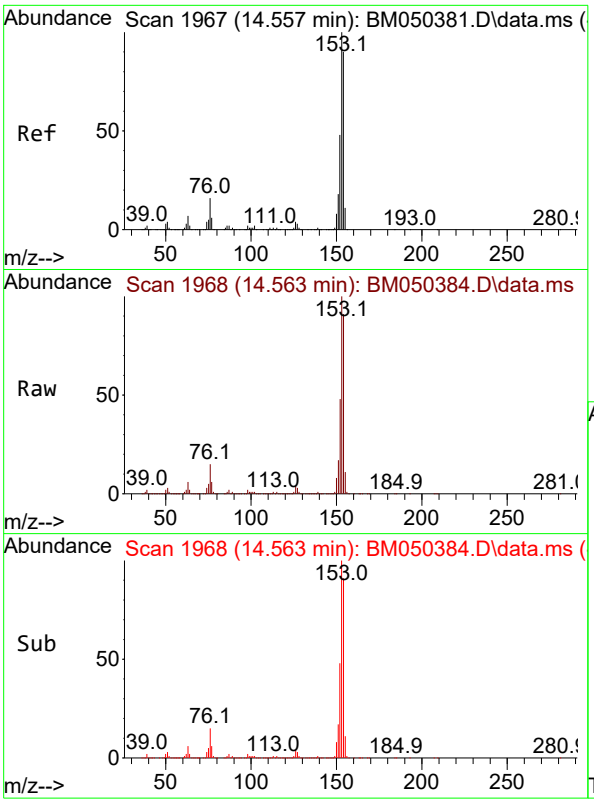


#51
2,6-Dinitrotoluene
Concen: 87.496 ng
RT: 14.063 min Scan# 1883
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:165 Resp: 1207179

Ion	Ratio	Lower	Upper
165	100		
63	51.5	42.4	63.6
89	52.7	42.2	63.2



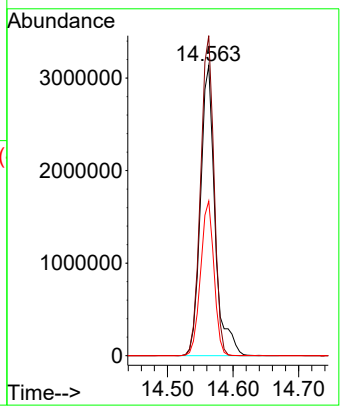


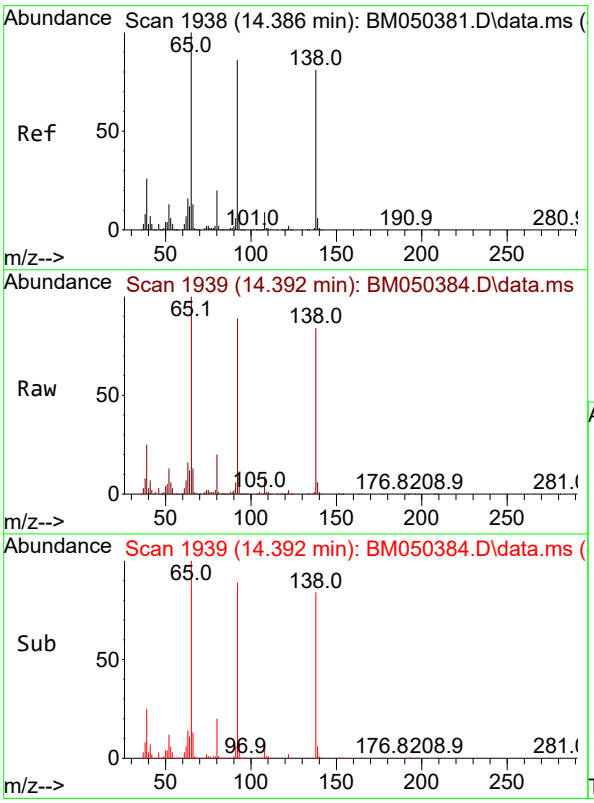
#52
Acenaphthene
Concen: 81.486 ng
RT: 14.563 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:154 Resp: 4833886

Ion	Ratio	Lower	Upper
154	100		
153	110.3	89.2	133.8
152	53.3	42.6	64.0

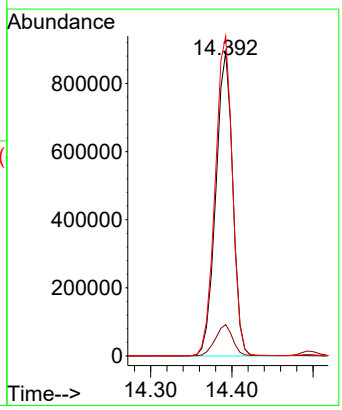


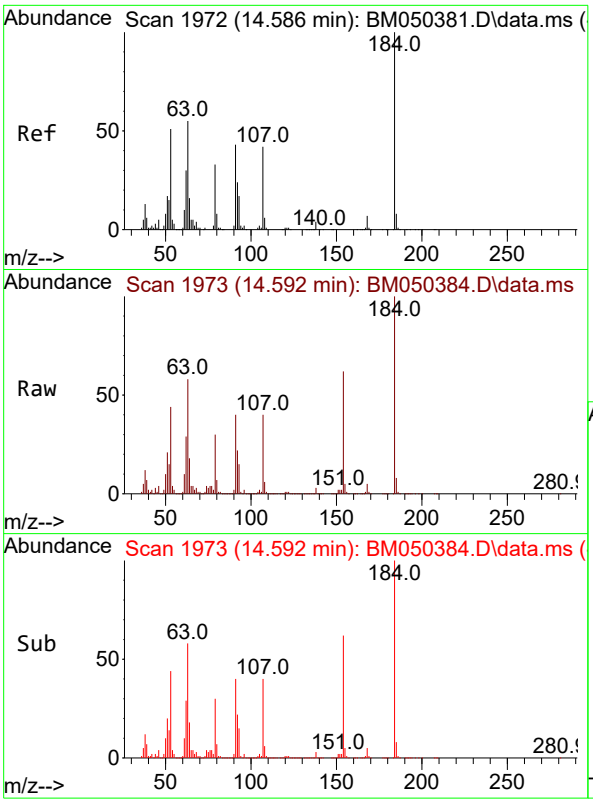


#53
3-Nitroaniline
Concen: 88.444 ng
RT: 14.392 min Scan# 1939
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:138 Resp: 1297724

Ion	Ratio	Lower	Upper
138	100		
108	10.3	8.8	13.2
92	105.4	85.0	127.6



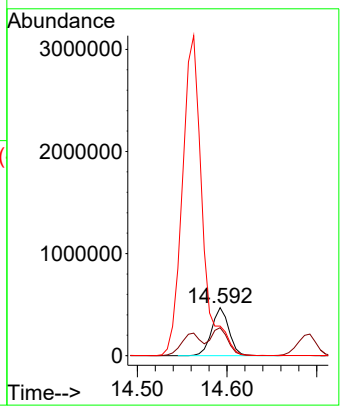


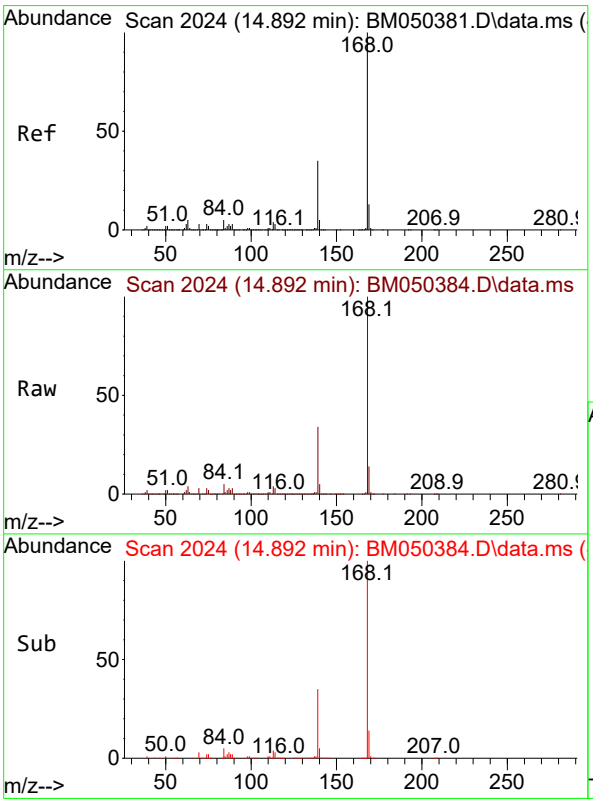
#54
2,4-Dinitrophenol
Concen: 82.116 ng
RT: 14.592 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 626569

Ion	Ratio	Lower	Upper
184	100		
63	58.4	53.4	80.0
154	61.7	61.6	92.4

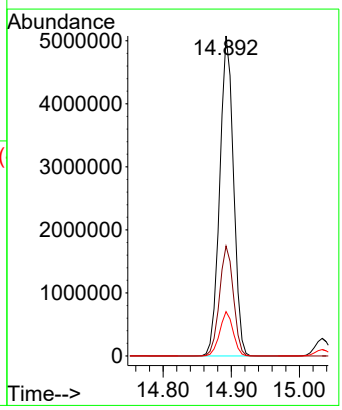


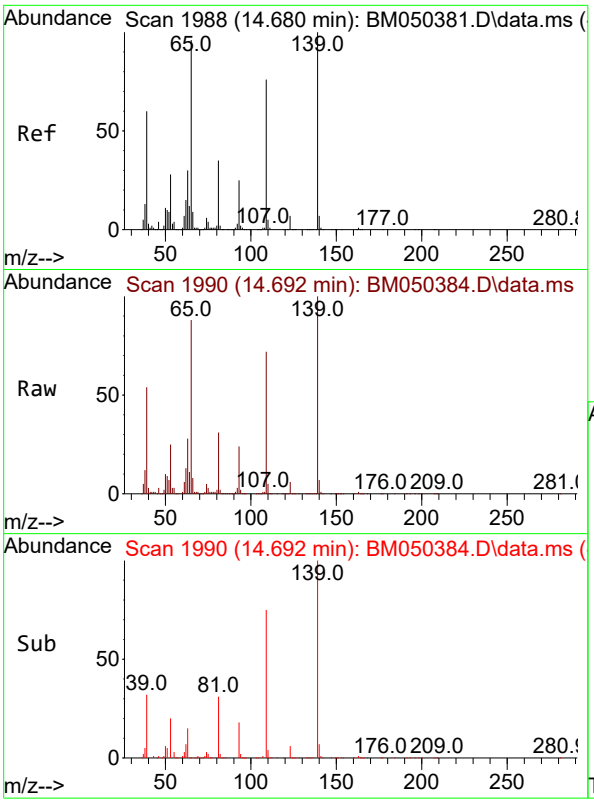


#55
Dibenzofuran
Concen: 78.152 ng
RT: 14.892 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:168 Resp: 7143343

Ion	Ratio	Lower	Upper
168	100		
139	34.4	27.7	41.5
169	13.8	10.7	16.1



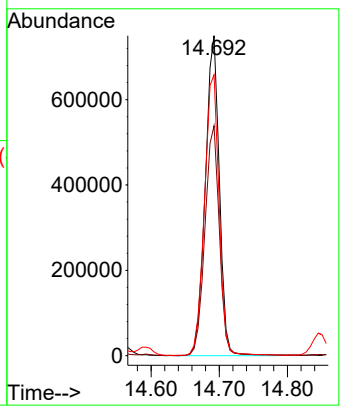


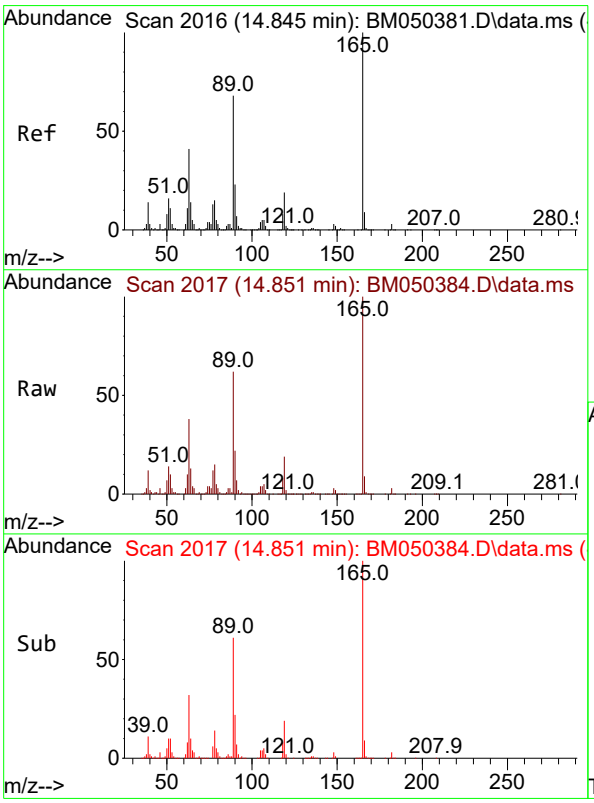
#56
4-Nitrophenol
Concen: 85.262 ng
RT: 14.692 min Scan# 1
Delta R.T. 0.012 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:139 Resp: 1075848

Ion	Ratio	Lower	Upper
139	100		
109	71.9	56.5	96.5
65	87.8	76.4	116.4

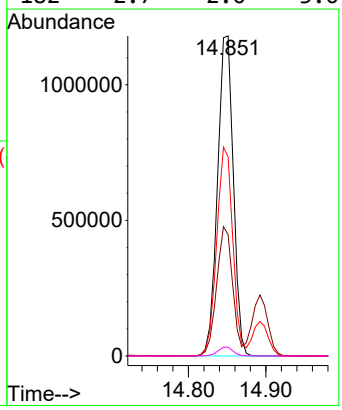


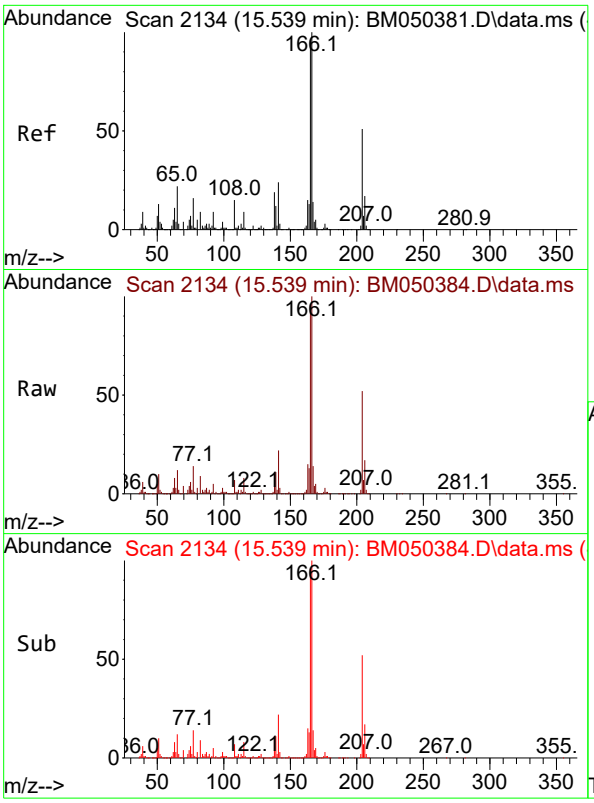


#57
2,4-Dinitrotoluene
Concen: 79.189 ng
RT: 14.851 min Scan# 2017
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:165 Resp: 1674329

Ion	Ratio	Lower	Upper
165	100		
63	37.9	32.5	48.7
89	62.2	54.0	81.0
182	2.7	2.0	3.0



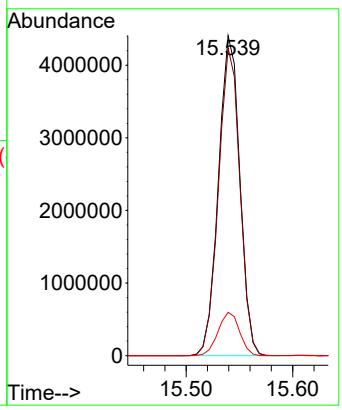


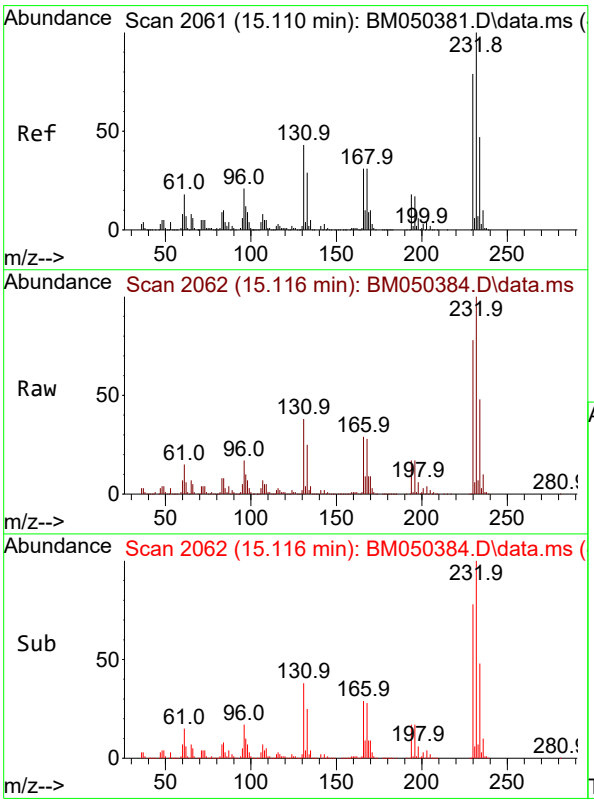
#58
Fluorene
Concen: 81.530 ng
RT: 15.539 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:166 Resp: 6138107

Ion	Ratio	Lower	Upper
166	100		
165	96.1	77.0	115.6
167	13.6	10.9	16.3

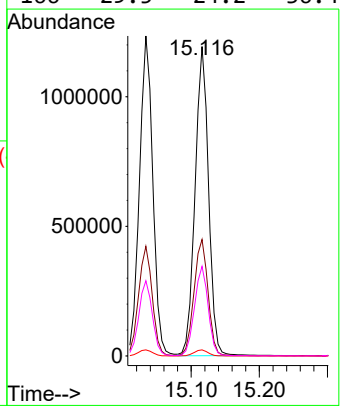


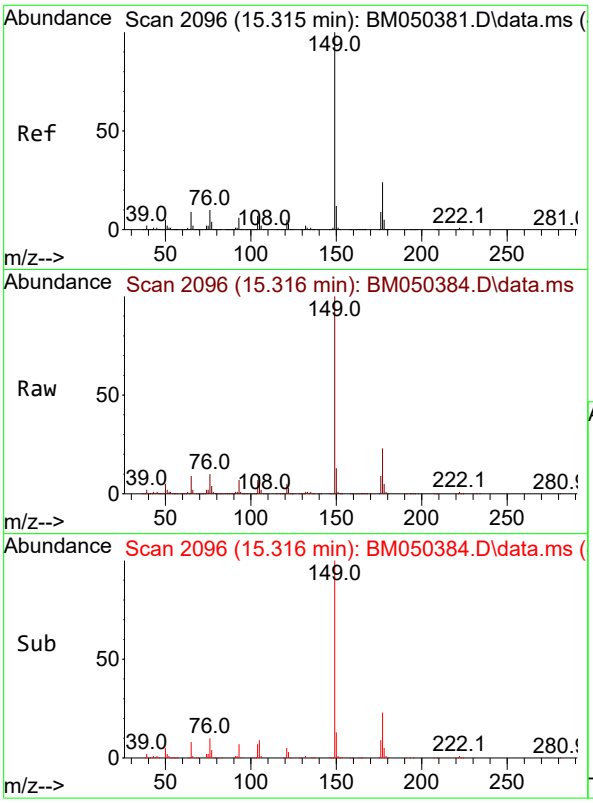


#59
2,3,4,6-Tetrachlorophenol
Concen: 87.136 ng
RT: 15.116 min Scan# 2062
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:232 Resp: 1636646

Ion	Ratio	Lower	Upper
232	100		
131	39.2	33.4	50.0
130	2.1	1.8	2.6
166	29.5	24.2	36.4



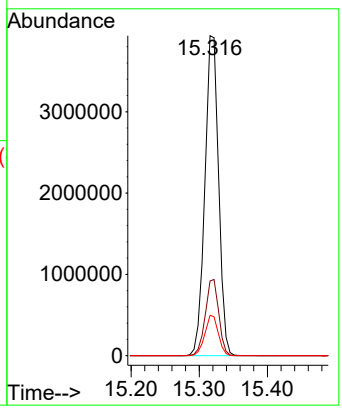


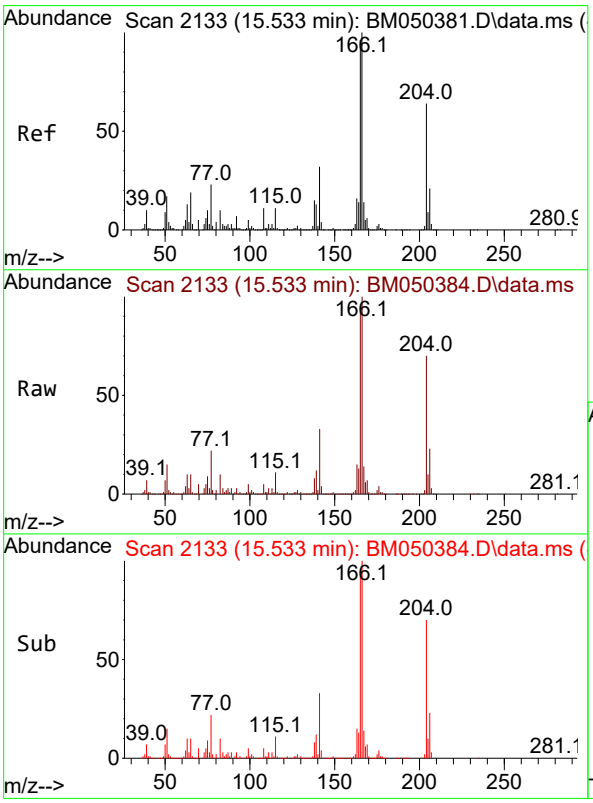
#60
Diethylphthalate
Concen: 80.291 ng
RT: 15.316 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 5511226

Ion	Ratio	Lower	Upper
149	100		
177	23.4	18.8	28.2
150	12.6	9.8	14.8

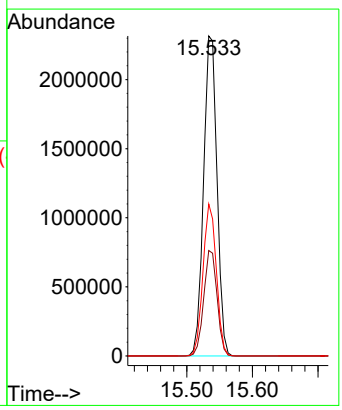


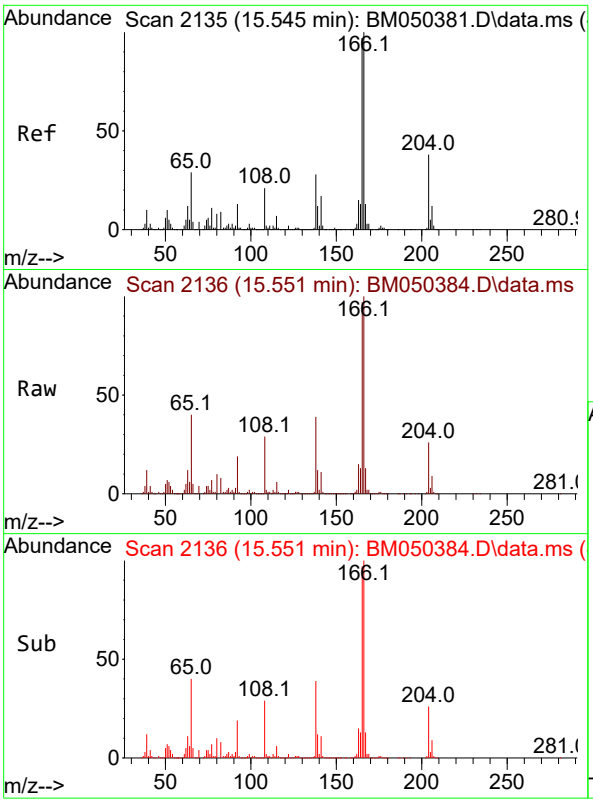


#61
4-Chlorophenyl-phenylether
Concen: 83.798 ng
RT: 15.533 min Scan# 2133
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:204 Resp: 3298863

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.6	39.8
141	47.5	39.9	59.9



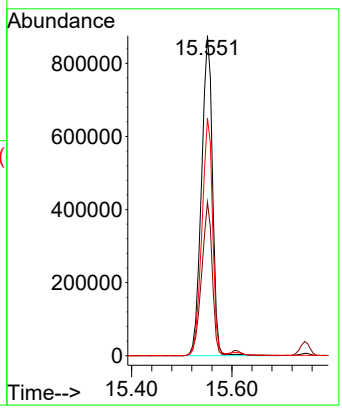


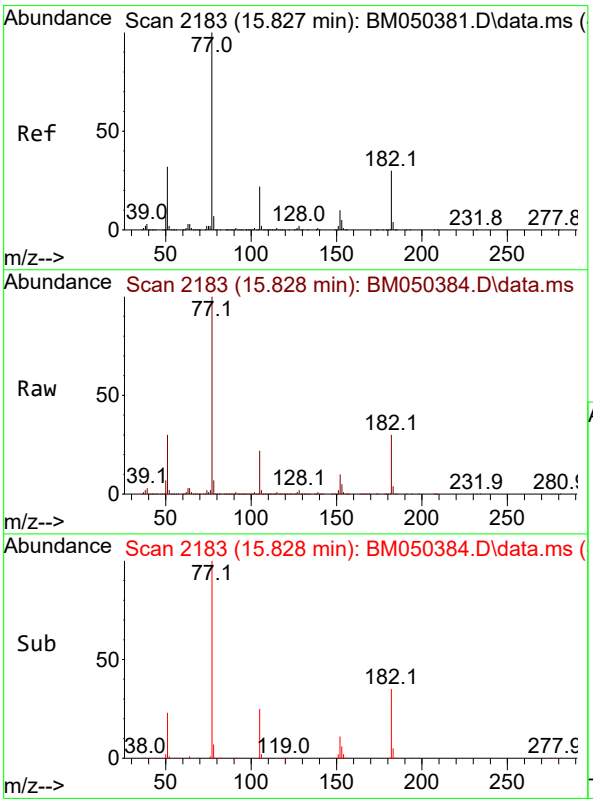
#62
4-Nitroaniline
Concen: 77.536 ng
RT: 15.551 min Scan# 21
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 1336300

Ion	Ratio	Lower	Upper
138	100		
92	48.0	24.5	64.5
108	74.2	52.5	92.5

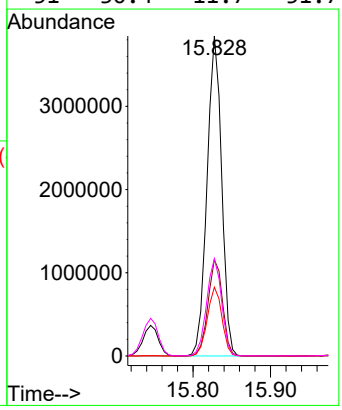


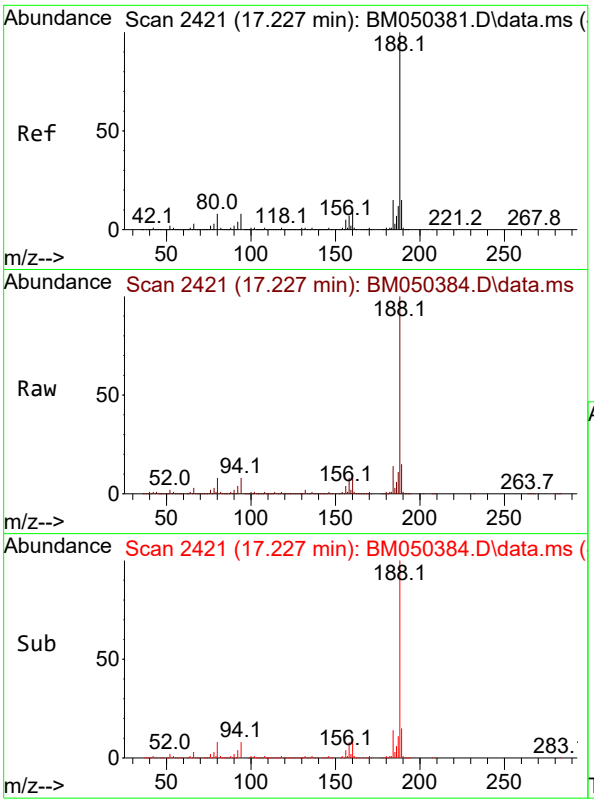


#63
Azobenzene
Concen: 79.741 ng
RT: 15.828 min Scan# 2183
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion: 77 Resp: 5026045

Ion	Ratio	Lower	Upper
77	100		
182	30.1	10.0	50.0
105	21.5	2.0	42.0
51	30.4	11.7	51.7



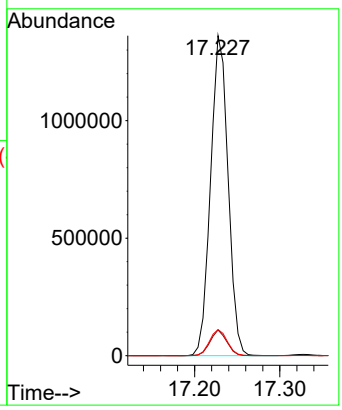


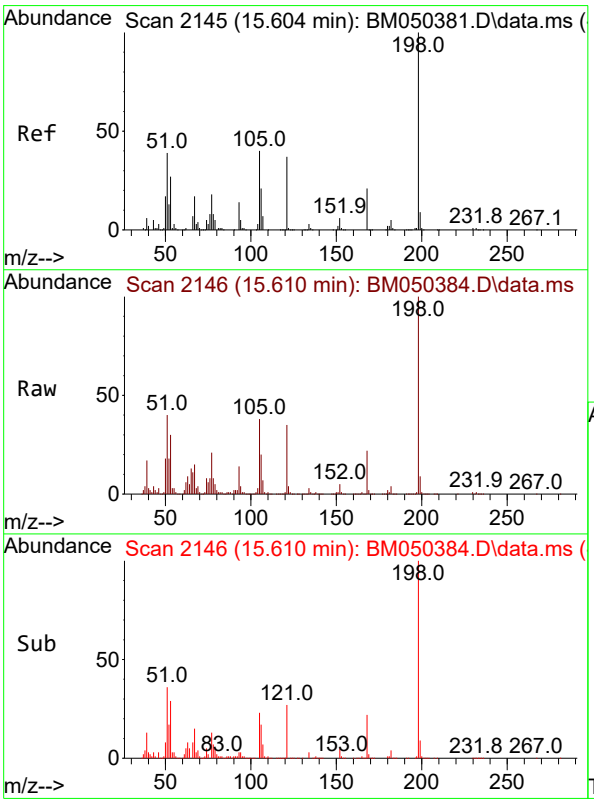
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:188 Resp: 1944455

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.0	9.0
80	8.1	6.5	9.7

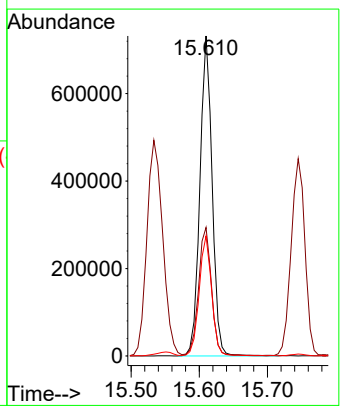


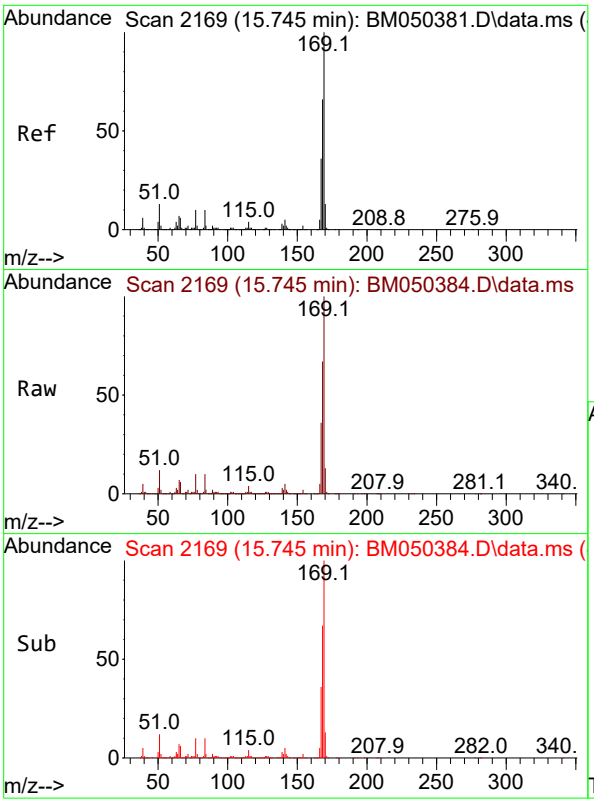


#65
4,6-Dinitro-2-methylphenol
Concen: 82.140 ng
RT: 15.610 min Scan# 2146
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:198 Resp: 912781

Ion	Ratio	Lower	Upper
198	100		
51	40.1	26.6	66.6
105	37.5	20.9	60.9



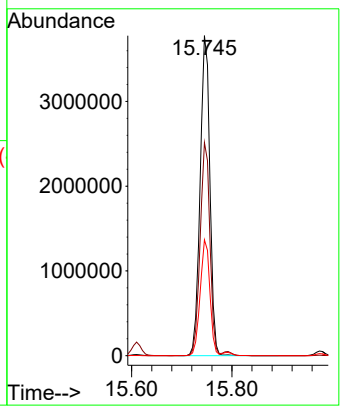


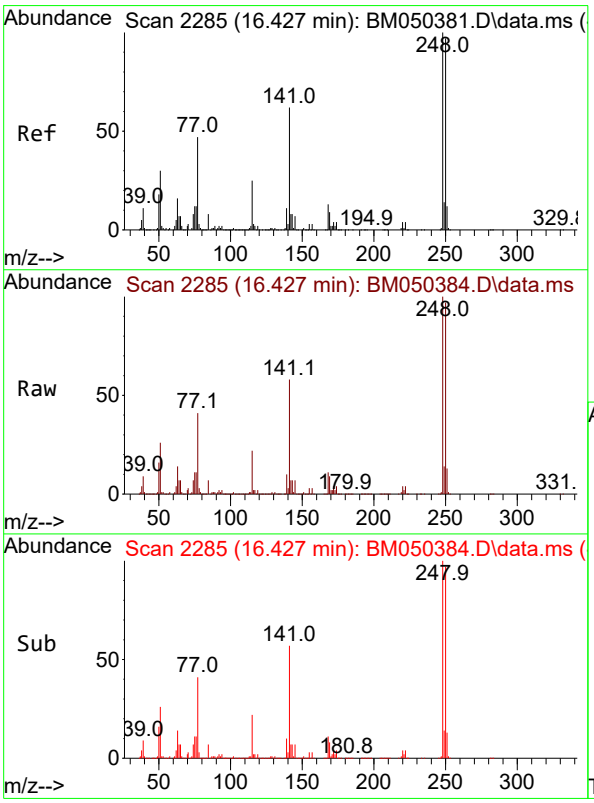
#66
n-Nitrosodiphenylamine
Concen: 83.592 ng
RT: 15.745 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:169 Resp: 5086187

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.2	79.8
167	36.2	28.7	43.1

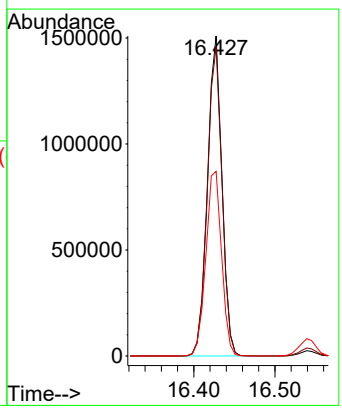


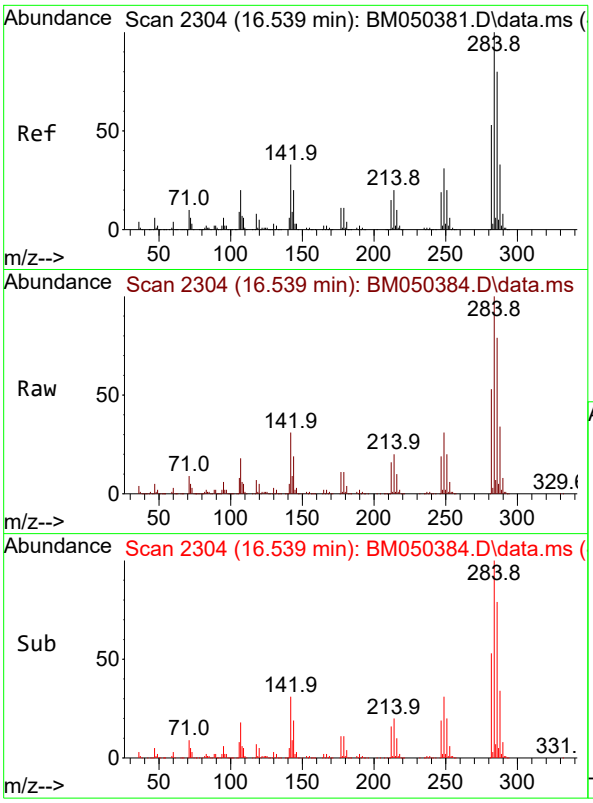


#67
4-Bromophenyl-phenylether
Concen: 87.664 ng
RT: 16.427 min Scan# 2285
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:248 Resp: 1878071

Ion	Ratio	Lower	Upper
248	100		
250	96.6	77.9	116.9
141	57.7	49.7	74.5



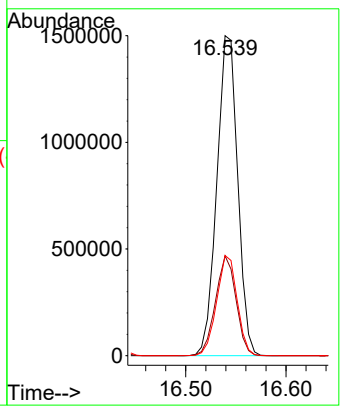


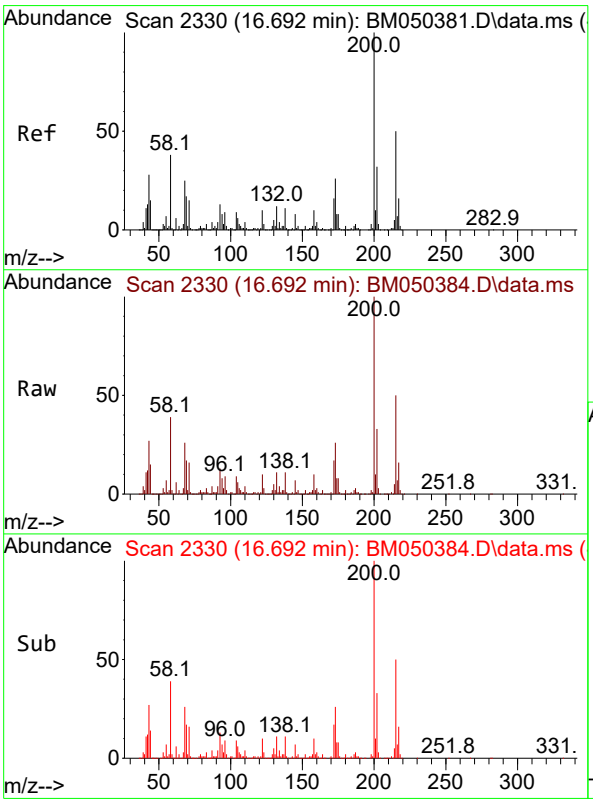
#68
Hexachlorobenzene
Concen: 85.534 ng
RT: 16.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:284 Resp: 2164238

Ion	Ratio	Lower	Upper
284	100		
142	31.2	26.8	40.2
249	31.3	24.5	36.7

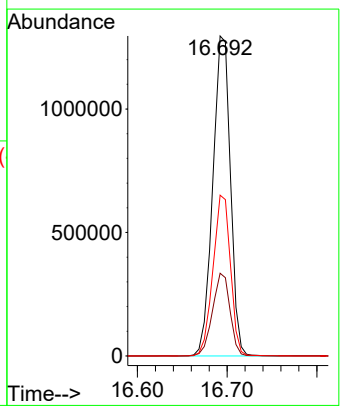


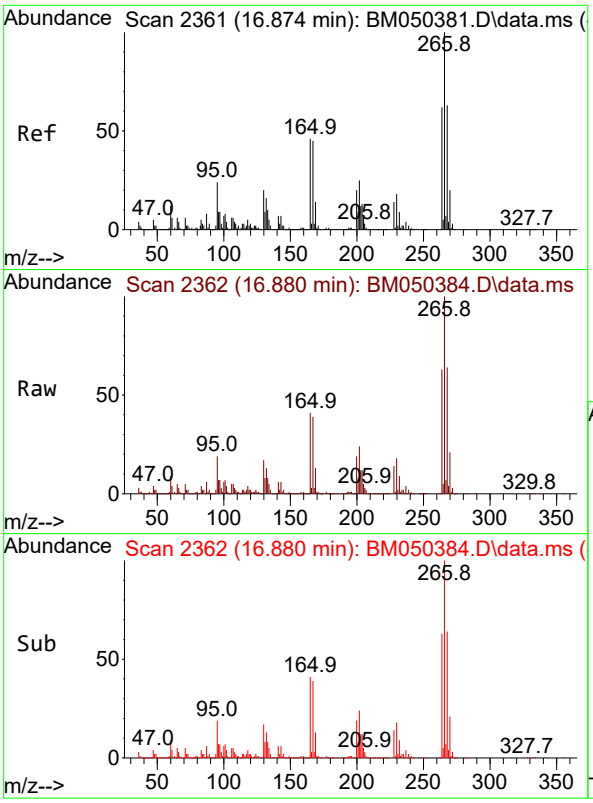


#69
Atrazine
Concen: 88.450 ng
RT: 16.692 min Scan# 2330
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:200 Resp: 1767182

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.6	45.6
215	50.3	29.6	69.6



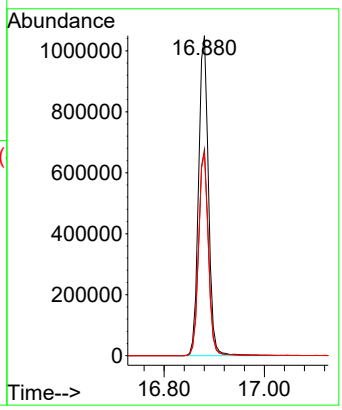


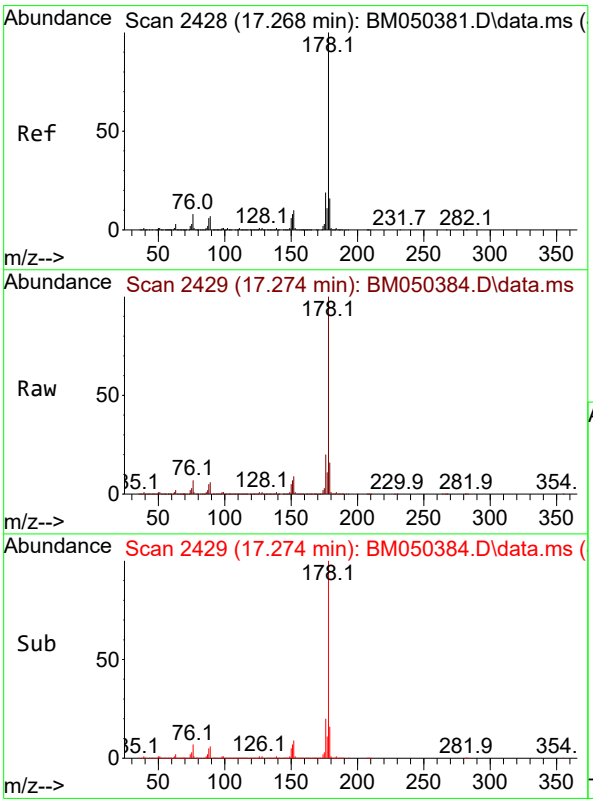
#70
Pentachlorophenol
Concen: 90.473 ng
RT: 16.880 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:266 Resp: 1425059

Ion	Ratio	Lower	Upper
266	100		
268	64.4	50.5	75.7
264	63.1	49.9	74.9

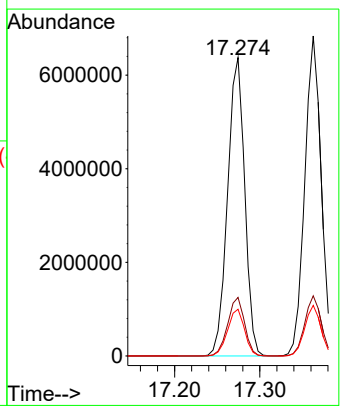


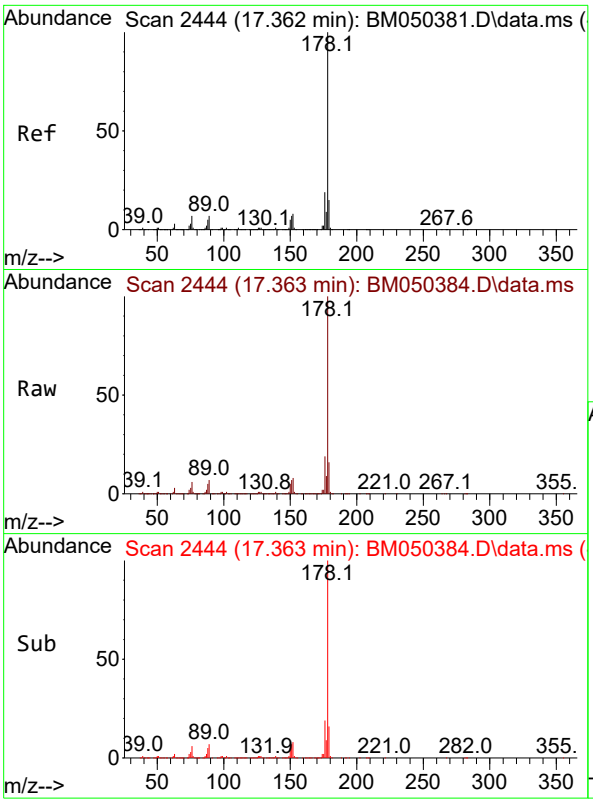


#71
Phenanthrene
Concen: 80.828 ng
RT: 17.274 min Scan# 2429
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:178 Resp: 8893346

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.0
179	15.7	12.5	18.7



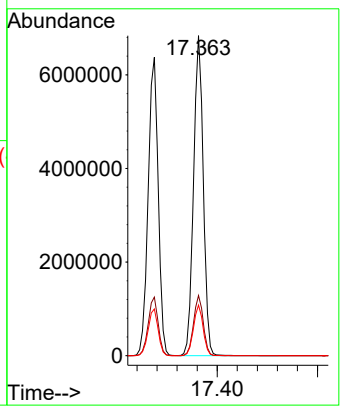


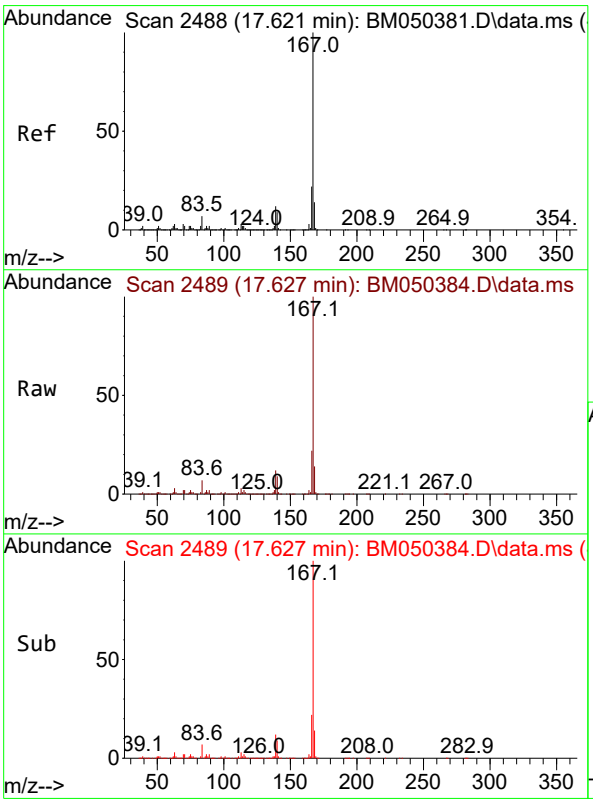
#72
Anthracene
Concen: 83.709 ng
RT: 17.363 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 9167986

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.8	12.2	18.4

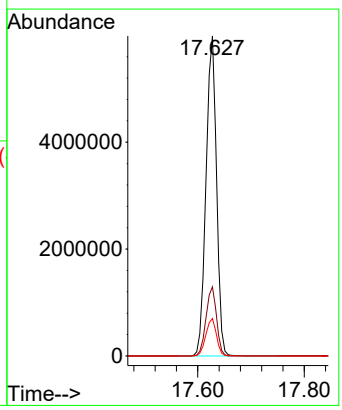


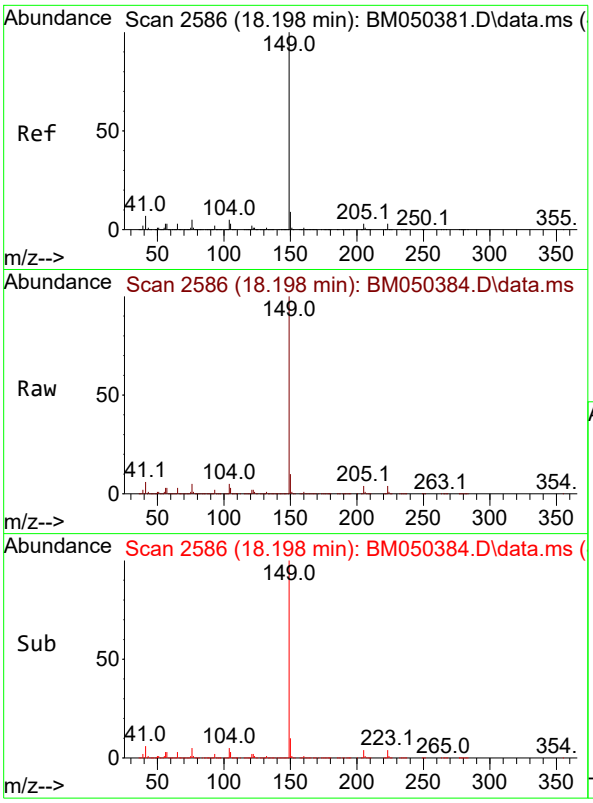


#73
Carbazole
Concen: 82.547 ng
RT: 17.627 min Scan# 2489
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:167 Resp: 8180242

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.2	25.8
139	11.7	9.9	14.9



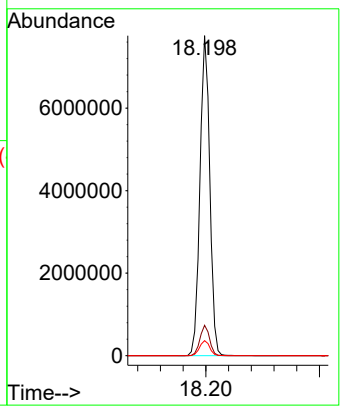


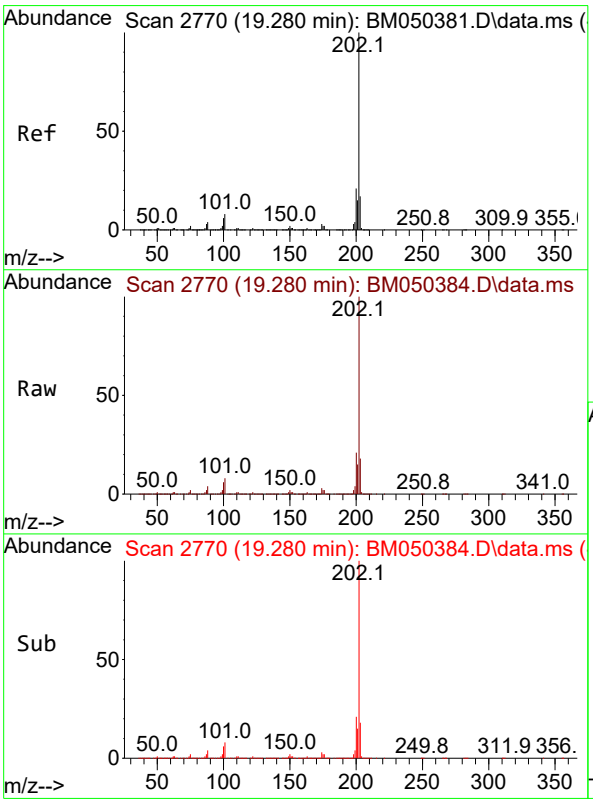
#74
Di-n-butylphthalate
Concen: 85.749 ng
RT: 18.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 9300935

Ion	Ratio	Lower	Upper
149	100		
150	9.5	7.3	10.9
104	4.7	3.9	5.9

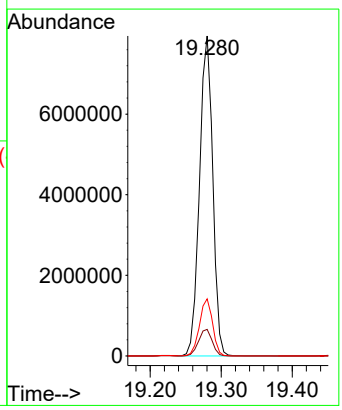


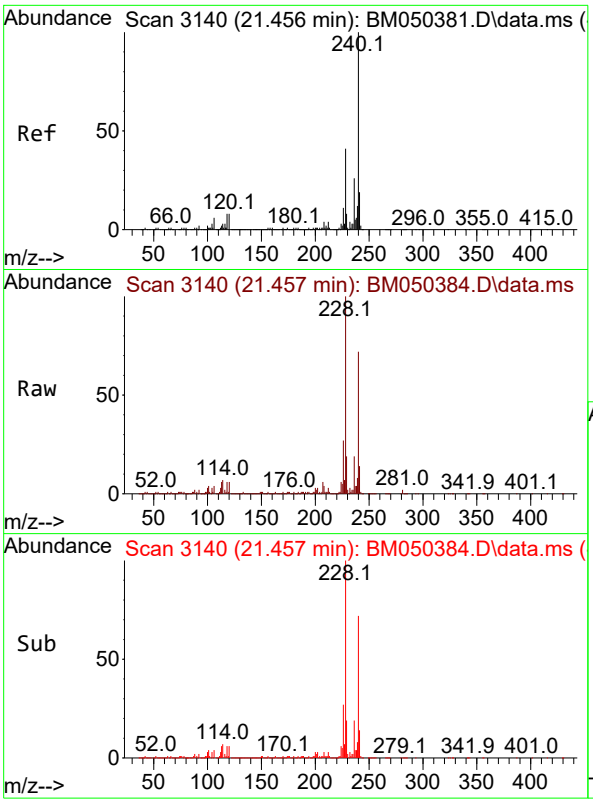


#75
Fluoranthene
Concen: 86.256 ng
RT: 19.280 min Scan# 2770
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:202 Resp:10317307

Ion	Ratio	Lower	Upper
202	100		
101	8.3	0.0	28.3
203	17.9	0.0	37.2



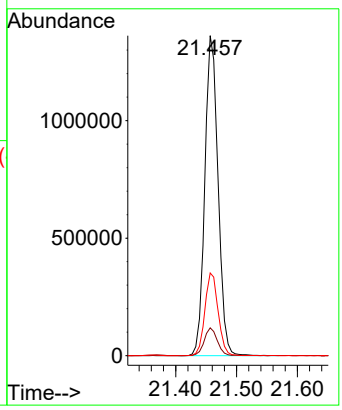


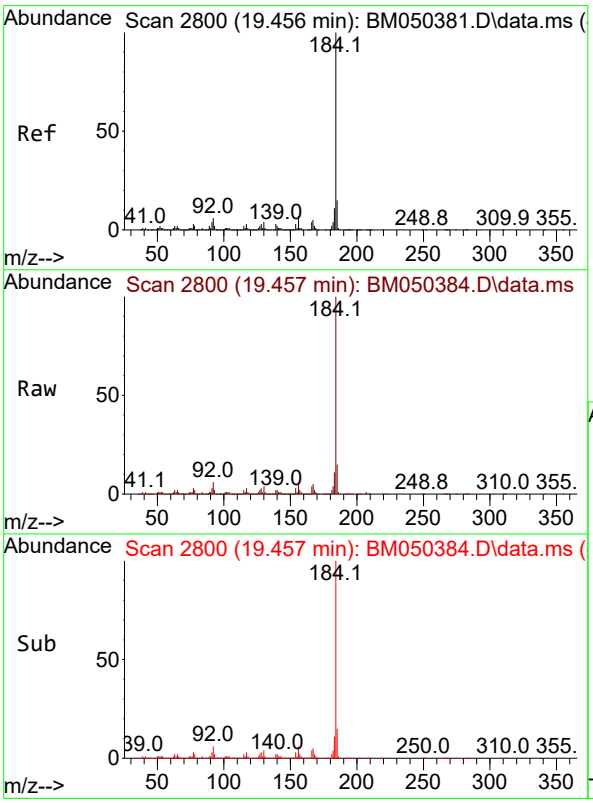
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:240 Resp: 2055292

Ion	Ratio	Lower	Upper
240	100		
120	8.7	6.7	10.1
236	25.8	20.7	31.1

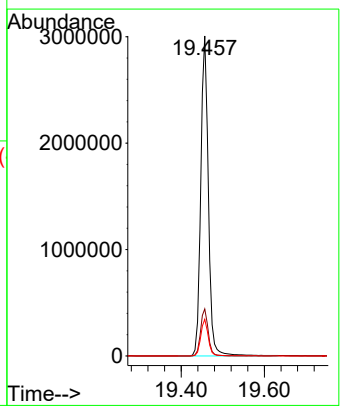


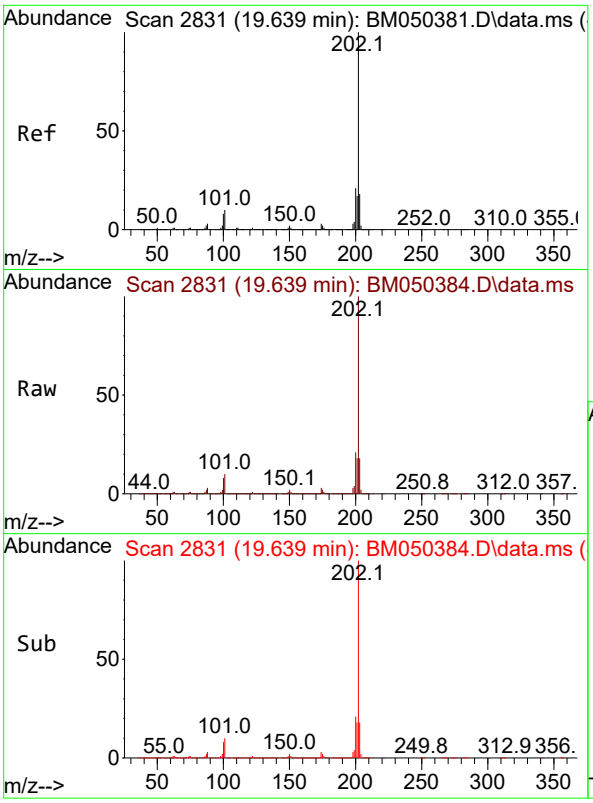


#77
Benzidine
Concen: 72.819 ng
RT: 19.457 min Scan# 2800
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:184 Resp: 3817410

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.7	17.5
183	11.4	9.0	13.6



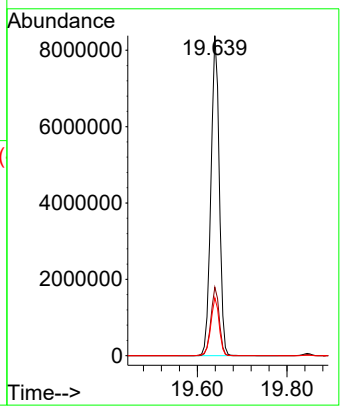


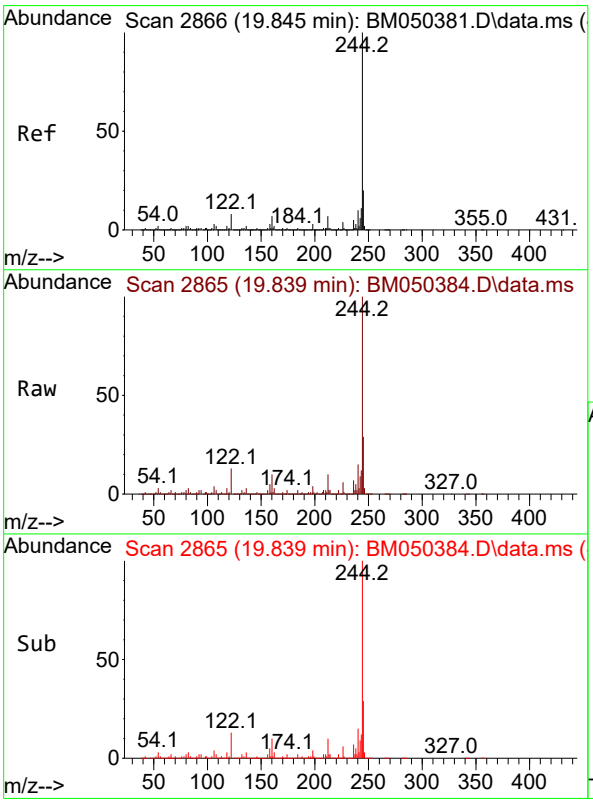
#78
Pyrene
Concen: 82.185 ng
RT: 19.639 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp:10818153

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	18.1	14.1	21.1

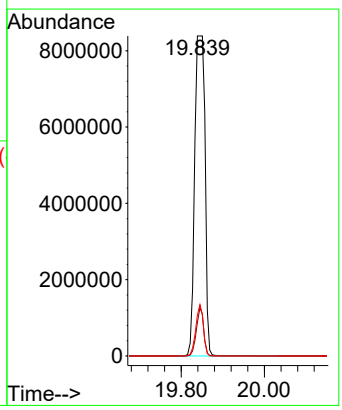


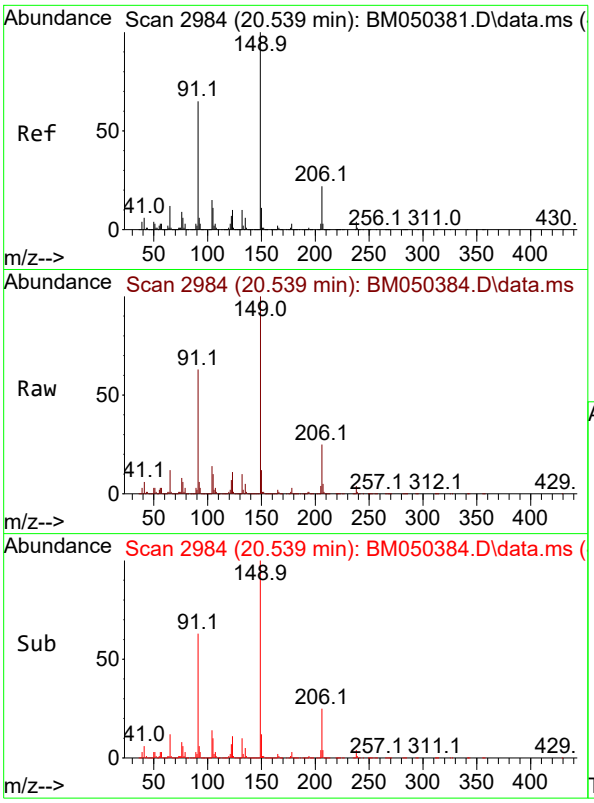


#79
Terphenyl-d14
Concen: 123.577 ng
RT: 19.839 min Scan# 2865
Delta R.T. -0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:244 Resp:14435460

Ion	Ratio	Lower	Upper
244	100		
212	10.5	5.7	8.5#
122	12.8	6.2	9.2#



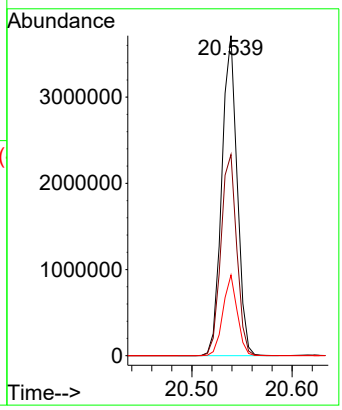


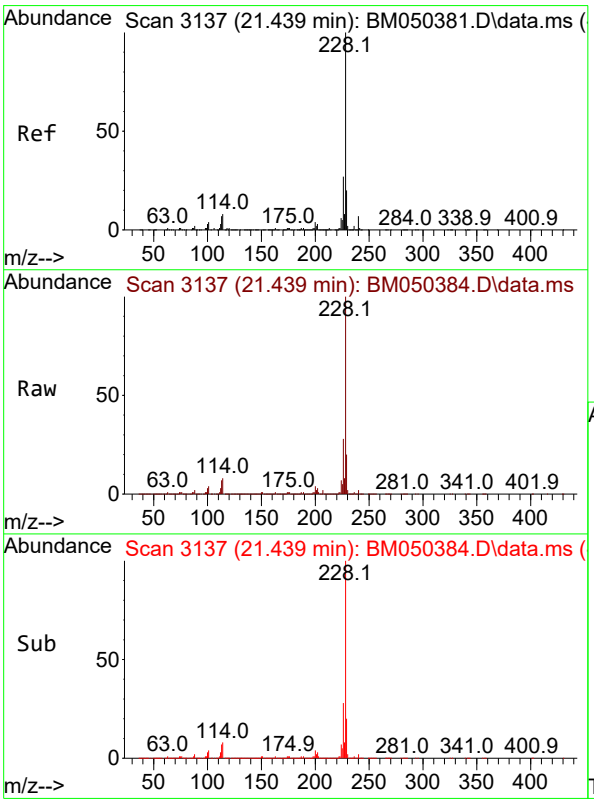
#80
Butylbenzylphthalate
Concen: 90.734 ng
RT: 20.539 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 3938114

Ion	Ratio	Lower	Upper
149	100		
91	62.9	51.6	77.4
206	25.2	17.8	26.8

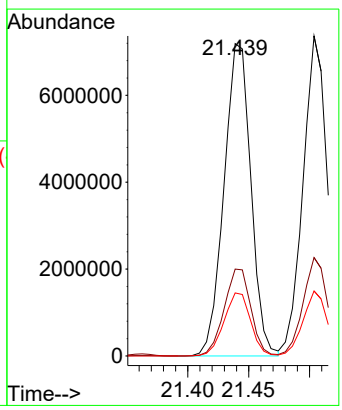


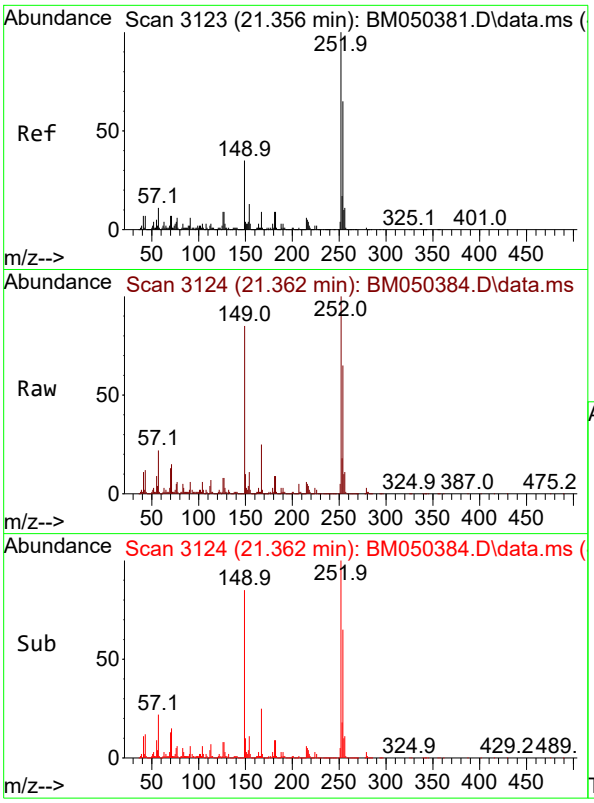


#81
Benzo(a)anthracene
Concen: 82.558 ng
RT: 21.439 min Scan# 3137
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:228 Resp:11055858

Ion	Ratio	Lower	Upper
228	100		
226	27.8	21.8	32.8
229	20.2	16.0	24.0



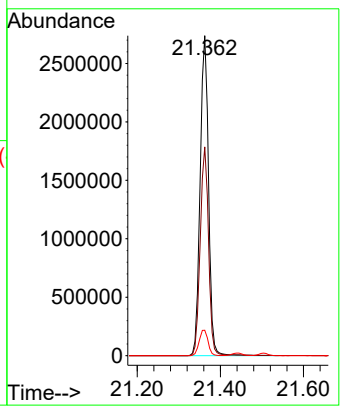


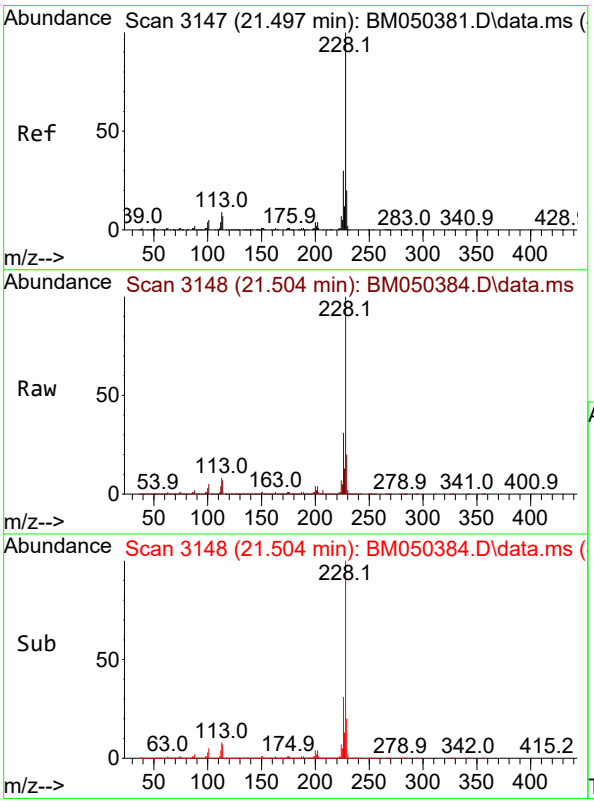
#82
3,3'-Dichlorobenzidine
Concen: 84.699 ng
RT: 21.362 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 3825108

Ion	Ratio	Lower	Upper
252	100		
254	65.3	51.7	77.5
126	8.0	7.3	10.9

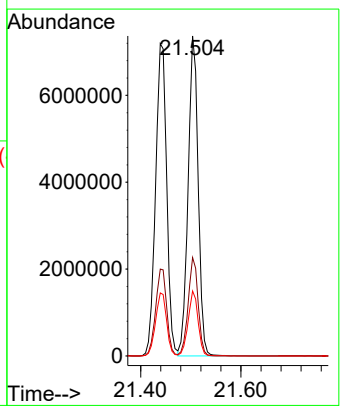


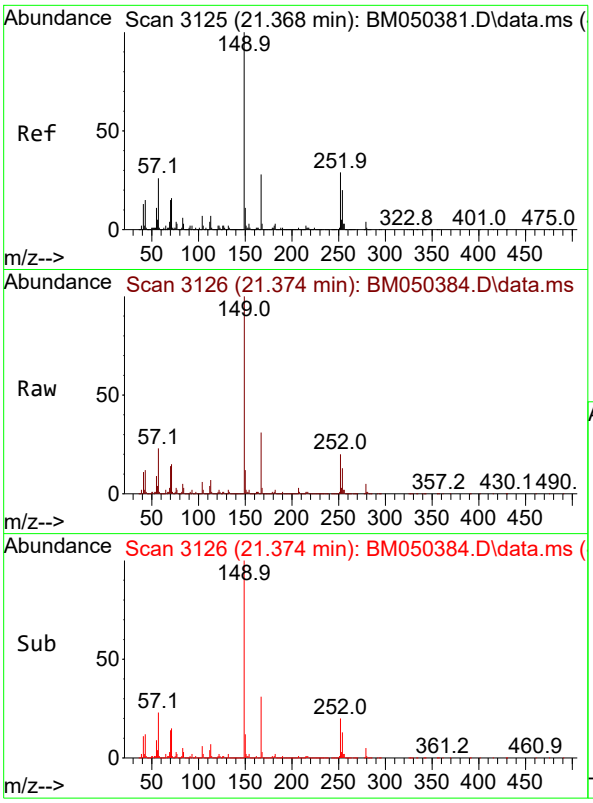


#83
Chrysene
Concen: 81.310 ng
RT: 21.504 min Scan# 3148
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:228 Resp:10270454

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.2	36.4
229	20.3	15.8	23.6



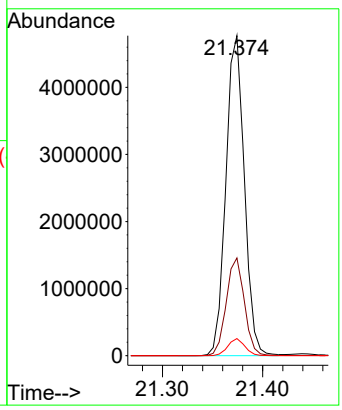


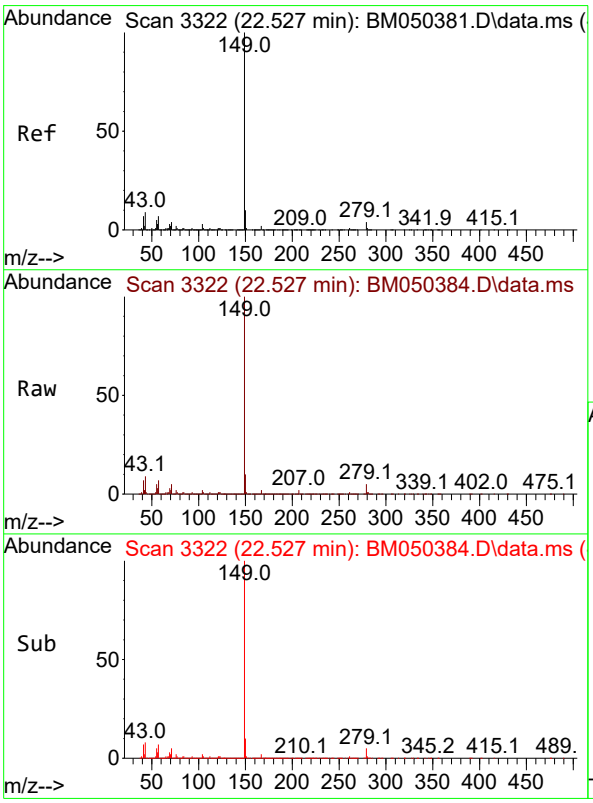
#84
Bis(2-ethylhexyl)phthalate
Concen: 88.540 ng
RT: 21.374 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 6100517

Ion	Ratio	Lower	Upper
149	100		
167	30.5	22.7	34.1
279	5.4	3.5	5.3#

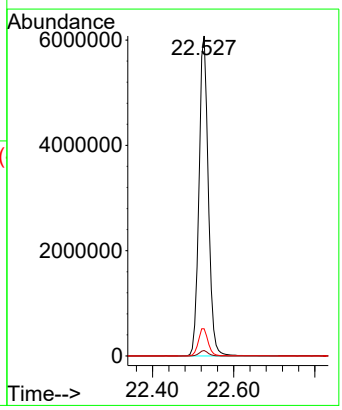


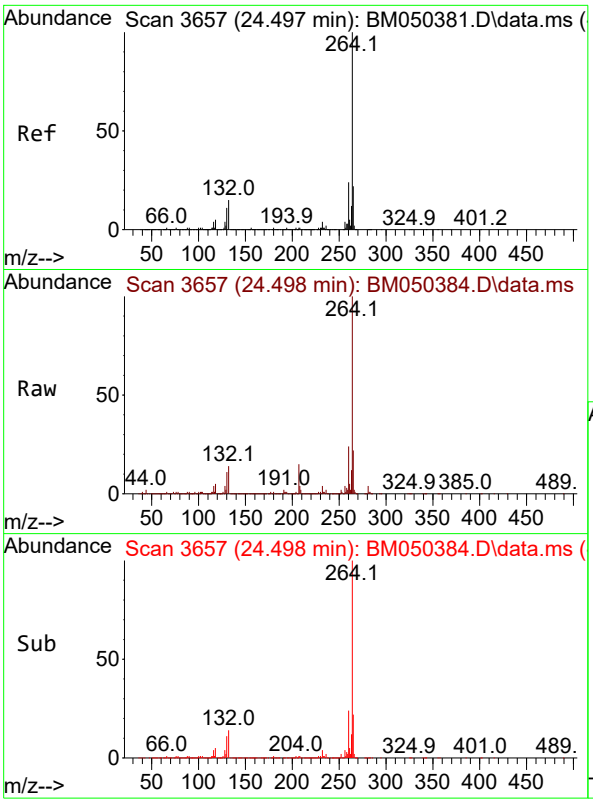


#85
Di-n-octyl phthalate
Concen: 90.093 ng
RT: 22.527 min Scan# 3322
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:149 Resp: 9722259

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.0	7.7	11.5



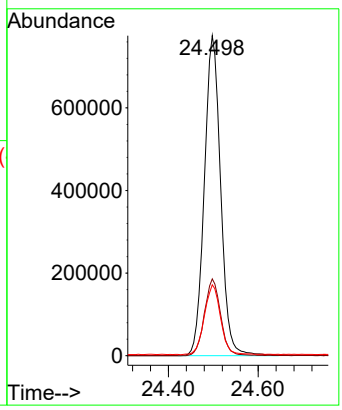


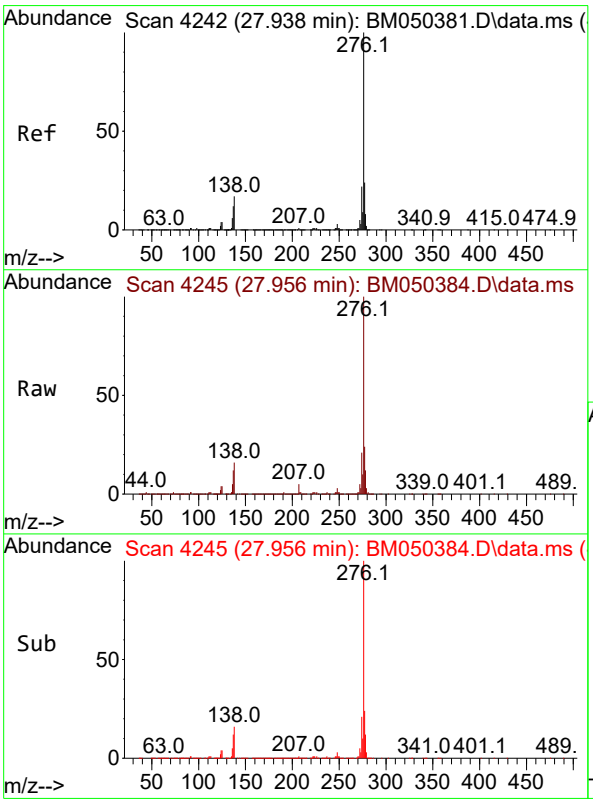
#86
Perylene-d12
Concen: 20.000 ng
RT: 24.498 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:264 Resp: 1953481

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.2	17.8	26.6

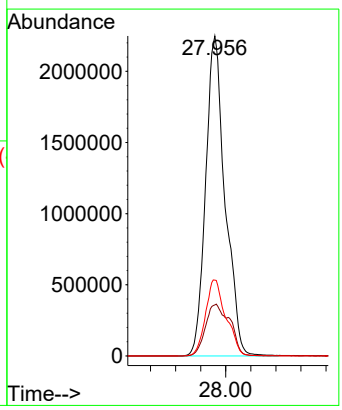


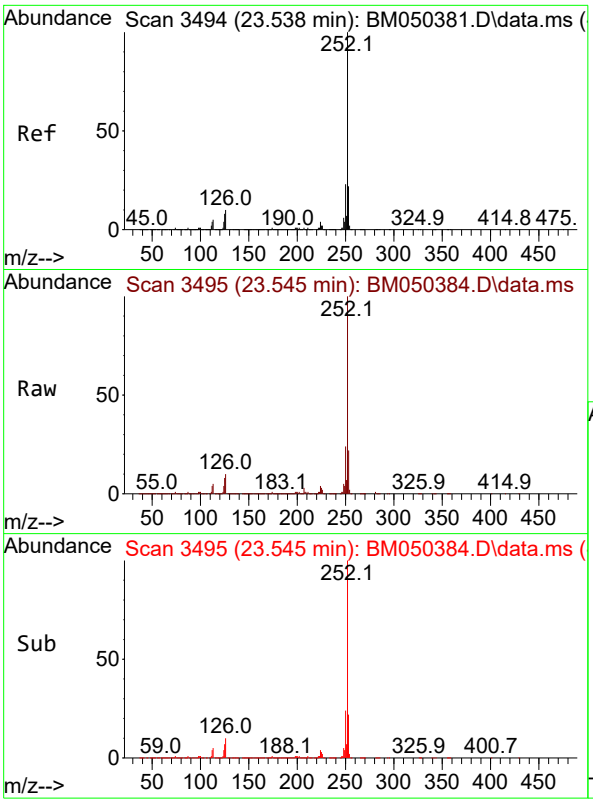


#87
Indeno(1,2,3-cd)pyrene
Concen: 87.270 ng
RT: 27.956 min Scan# 4245
Delta R.T. 0.018 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:276 Resp:12120915

Ion	Ratio	Lower	Upper
276	100		
138	20.4	17.0	25.6
277	25.1	20.0	30.0



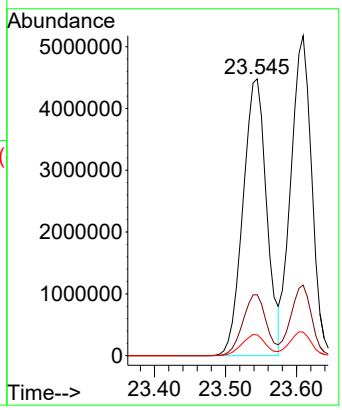


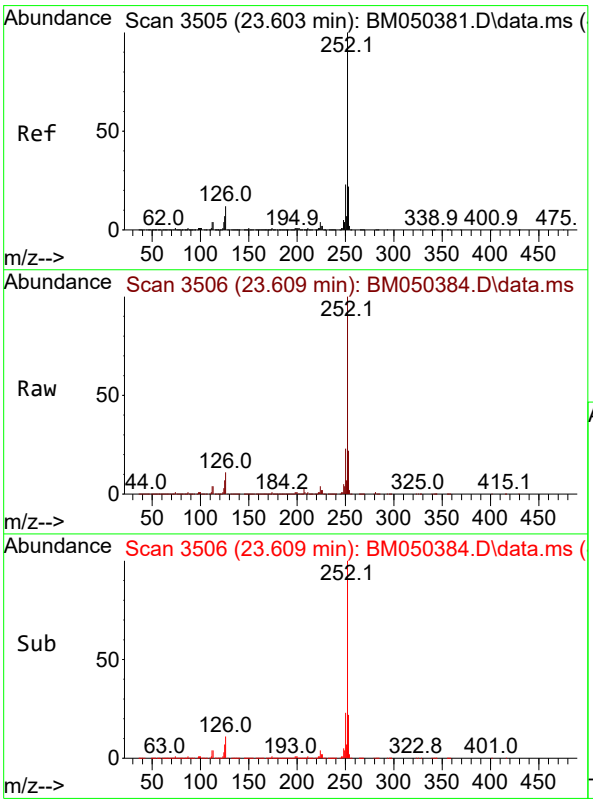
#88
Benzo(b)fluoranthene
Concen: 86.316 ng
RT: 23.545 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp:10371642

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	7.5	6.3	9.5

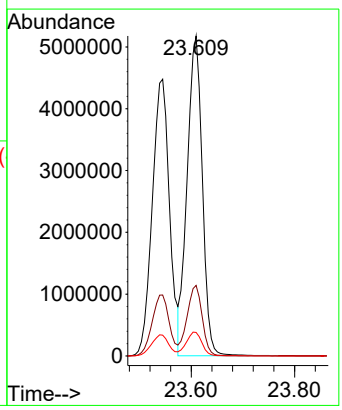


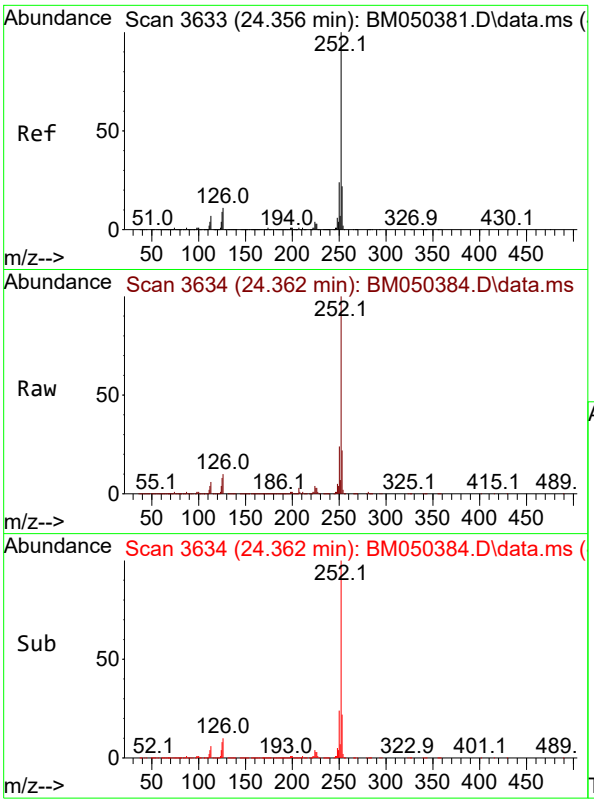


#89
Benzo(k)fluoranthene
Concen: 84.592 ng
RT: 23.609 min Scan# 3506
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:252 Resp:10546917

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	7.3	6.2	9.2



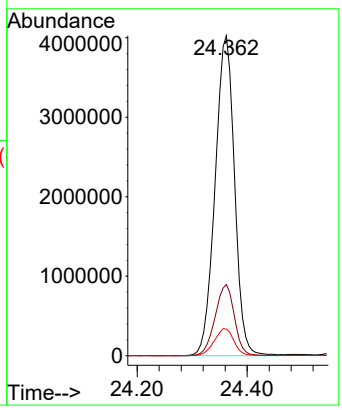


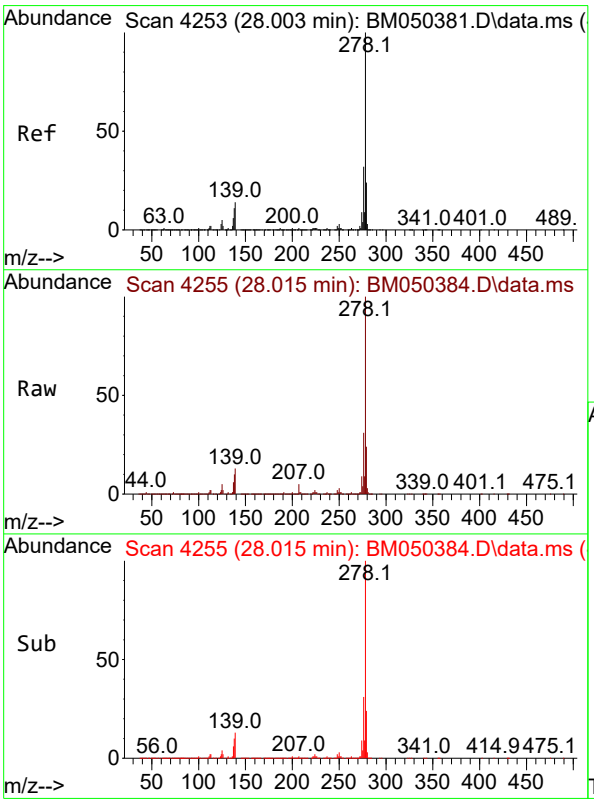
#90
Benzo(a)pyrene
Concen: 87.833 ng
RT: 24.362 min Scan# 3
Delta R.T. 0.006 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 9879526

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.6
125	8.3	7.0	10.4

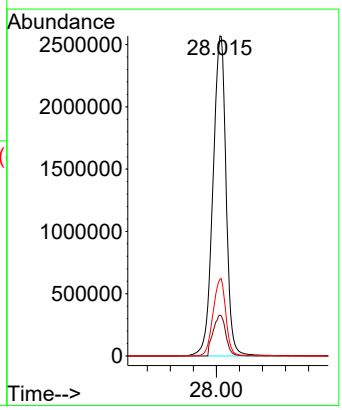


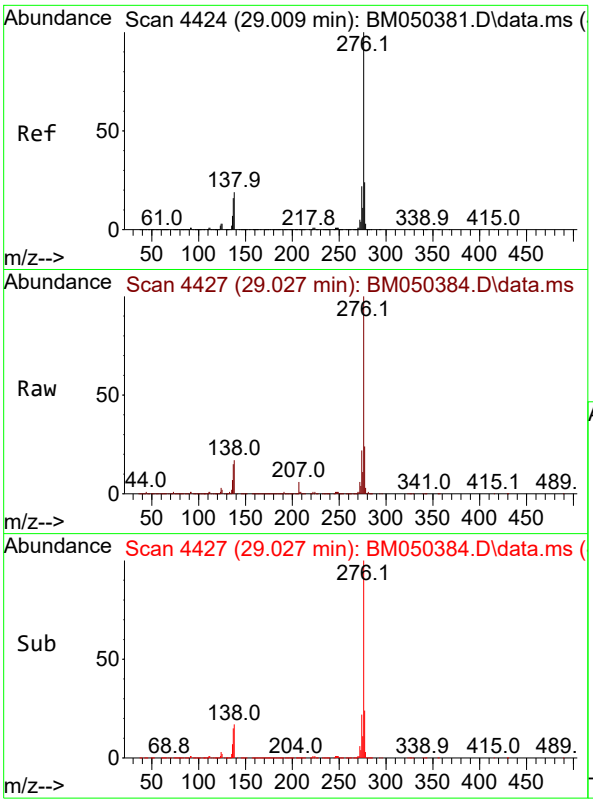


#91
Dibenzo(a,h)anthracene
Concen: 86.905 ng
RT: 28.015 min Scan# 4255
Delta R.T. 0.012 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Tgt Ion:278 Resp:10165335

Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.8	16.2
279	24.0	19.4	29.0



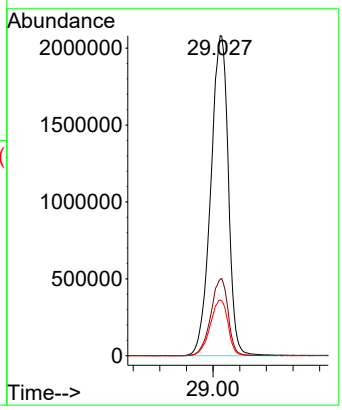


#92
Benzo(g,h,i)perylene
Concen: 85.979 ng
RT: 29.027 min Scan# 4
Delta R.T. 0.018 min
Lab File: BM050384.D
Acq: 08 Jul 2025 17:22

Instrument :
BNA_M
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 9504954

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.1	28.7
138	17.4	14.9	22.3



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.863	152	404345	20.000	ng		0.00
21) Naphthalene-d8	10.663	136	1554046	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	1008264	20.000	ng		0.00
64) Phenanthrene-d10	17.227	188	1898481	20.000	ng		0.00
76) Chrysene-d12	21.456	240	1940016	20.000	ng		0.00
86) Perylene-d12	24.497	264	1874427	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	1875929	79.859	ng		0.00
7) Phenol-d6	7.022	99	2388524	80.660	ng		0.00
23) Nitrobenzene-d5	9.016	82	2227871	73.139	ng		0.00
42) 2,4,6-Tribromophenol	15.974	330	1026446	83.788	ng		0.00
45) 2-Fluorobiphenyl	13.121	172	5771427	70.689	ng		0.00
79) Terphenyl-d14	19.845	244	8726739	79.145	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.334	88	366994	37.994	ng		99
3) Pyridine	3.734	79	1042715	41.118	ng		98
4) n-Nitrosodimethylamine	3.640	42	482767	40.835	ng		99
6) Aniline	7.187	93	1617701	42.568	ng		100
8) 2-Chlorophenol	7.428	128	1063478	42.935	ng		98
9) Benzaldehyde	6.998	77	799316m	45.376	ng		
10) Phenol	7.051	94	1300713	42.114	ng		99
11) bis(2-Chloroethyl)ether	7.287	93	1044803	42.240	ng		98
12) 1,3-Dichlorobenzene	7.757	146	1260411	41.848	ng		97
13) 1,4-Dichlorobenzene	7.904	146	1279655	41.609	ng		99
14) 1,2-Dichlorobenzene	8.216	146	1221241	41.478	ng		99
15) Benzyl Alcohol	8.098	79	887896	42.555	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.392	45	1497256	41.095	ng		99
17) 2-Methylphenol	8.298	107	855883	42.726	ng		99
18) Hexachloroethane	8.951	117	453255	41.906	ng		99
19) n-Nitroso-di-n-propyla...	8.675	70	792336	44.168	ng		97
20) 3+4-Methylphenols	8.628	107	1136862	42.276	ng		99
22) Acetophenone	8.686	105	1643199	42.290	ng	#	97
24) Nitrobenzene	9.063	77	1137842	41.860	ng		98
25) Isophorone	9.592	82	2120872	42.909	ng		99
26) 2-Nitrophenol	9.775	139	514999	46.488	ng		97
27) 2,4-Dimethylphenol	9.833	122	1001149	42.470	ng		98
28) bis(2-Chloroethoxy)met...	10.069	93	1371682	41.880	ng		100
29) 2,4-Dichlorophenol	10.304	162	1042869	43.061	ng		99
30) 1,2,4-Trichlorobenzene	10.528	180	1216831	42.001	ng		99
31) Naphthalene	10.716	128	3258495	41.281	ng		99
32) Benzoic acid	9.951	122	593935	41.913	ng		97
33) 4-Chloroaniline	10.810	127	1415715	42.424	ng		99
34) Hexachlorobutadiene	11.010	225	749497	42.386	ng		99
35) Caprolactam	11.586	113	285315	43.156	ng		92
36) 4-Chloro-3-methylphenol	11.933	107	979521	43.312	ng		100
37) 2-Methylnaphthalene	12.322	142	2124989	42.637	ng		99
38) 1-Methylnaphthalene	12.539	142	2230710	42.292	ng		98
40) 1,2,4,5-Tetrachloroben...	12.692	216	1374217	42.859	ng		100
41) Hexachlorocyclopentadiene	12.680	237	881607	43.015	ng		99
43) 2,4,6-Trichlorophenol	12.927	196	858251	43.485	ng		98

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	12.992	196	938542	43.542	ng	99
46)	1,1'-Biphenyl	13.333	154	3108770	41.557	ng	100
47)	2-Chloronaphthalene	13.368	162	2461641	41.272	ng	99
48)	2-Nitroaniline	13.563	65	592401	44.497	ng	97
49)	Acenaphthylene	14.215	152	3783308	41.972	ng	99
50)	Dimethylphthalate	13.951	163	2890119	41.635	ng	100
51)	2,6-Dinitrotoluene	14.063	165	591843	44.405	ng	98
52)	Acenaphthene	14.557	154	2381763	41.562	ng	99
53)	3-Nitroaniline	14.386	138	636015	44.871	ng	98
54)	2,4-Dinitrophenol	14.586	184	266947	39.797	ng	98
55)	Dibenzofuran	14.892	168	3609413	40.877	ng	99
56)	4-Nitrophenol	14.686	139	521977	42.822	ng	94
57)	2,4-Dinitrotoluene	14.845	165	807634	40.905	ng	98
58)	Fluorene	15.539	166	3012801	41.425	ng	99
59)	2,3,4,6-Tetrachlorophenol	15.115	232	784378	43.229	ng	99
60)	Diethylphthalate	15.315	149	2759041	41.609	ng	99
61)	4-Chlorophenyl-phenyle...	15.533	204	1608200	42.288	ng	99
62)	4-Nitroaniline	15.545	138	649355	40.288	ng	96
63)	Azobenzene	15.821	77	2528721	41.531	ng	97
65)	4,6-Dinitro-2-methylph...	15.604	198	399918	40.334	ng	99
66)	n-Nitrosodiphenylamine	15.745	169	2506809	42.198	ng	100
67)	4-Bromophenyl-phenylether	16.427	248	894310	42.755	ng	99
68)	Hexachlorobenzene	16.539	284	1046980	42.380	ng	99
69)	Atrazine	16.692	200	862455	44.212	ng	99
70)	Pentachlorophenol	16.874	266	662449	43.075	ng	100
71)	Phenanthrene	17.268	178	4444618	41.373	ng	100
72)	Anthracene	17.362	178	4525011	42.316	ng	100
73)	Carbazole	17.621	167	4044979	41.806	ng	100
74)	Di-n-butylphthalate	18.198	149	4579991	43.247	ng	100
75)	Fluoranthene	19.280	202	4960360	42.474	ng	100
77)	Benzidine	19.456	184	2625052	53.050	ng	100
78)	Pyrene	19.639	202	5250364	42.257	ng	100
80)	Butylbenzylphthalate	20.539	149	1849278	45.139	ng	98
81)	Benzo(a)anthracene	21.439	228	5322771	42.109	ng	100
82)	3,3'-Dichlorobenzidine	21.356	252	1864267	43.733	ng	100
83)	Chrysene	21.497	228	4998506	41.924	ng	100
84)	Bis(2-ethylhexyl)phtha...	21.368	149	2892877	44.481	ng	99
85)	Di-n-octyl phthalate	22.521	149	4457449	43.760	ng	99
87)	Indeno(1,2,3-cd)pyrene	27.938	276	5647629	42.377	ng	100
88)	Benzo(b)fluoranthene	23.533	252	4906807	42.558	ng	100
89)	Benzo(k)fluoranthene	23.597	252	5010695	41.883	ng	100
90)	Benzo(a)pyrene	24.356	252	4633762	42.933	ng	99
91)	Dibenzo(a,h)anthracene	28.003	278	4772470	42.521	ng	99
92)	Benzo(g,h,i)perylene	29.009	276	4476118	42.197	ng	99

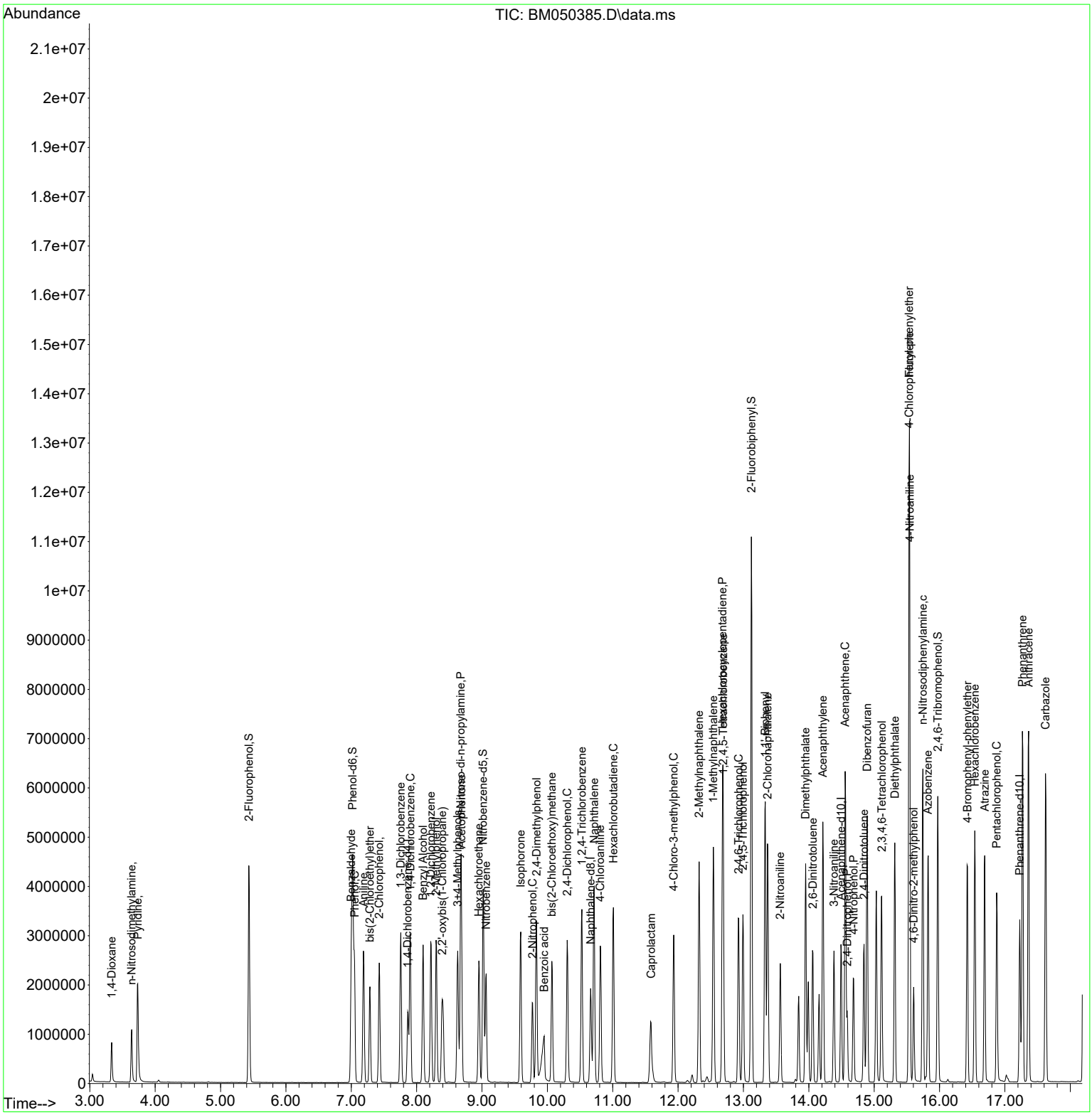
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

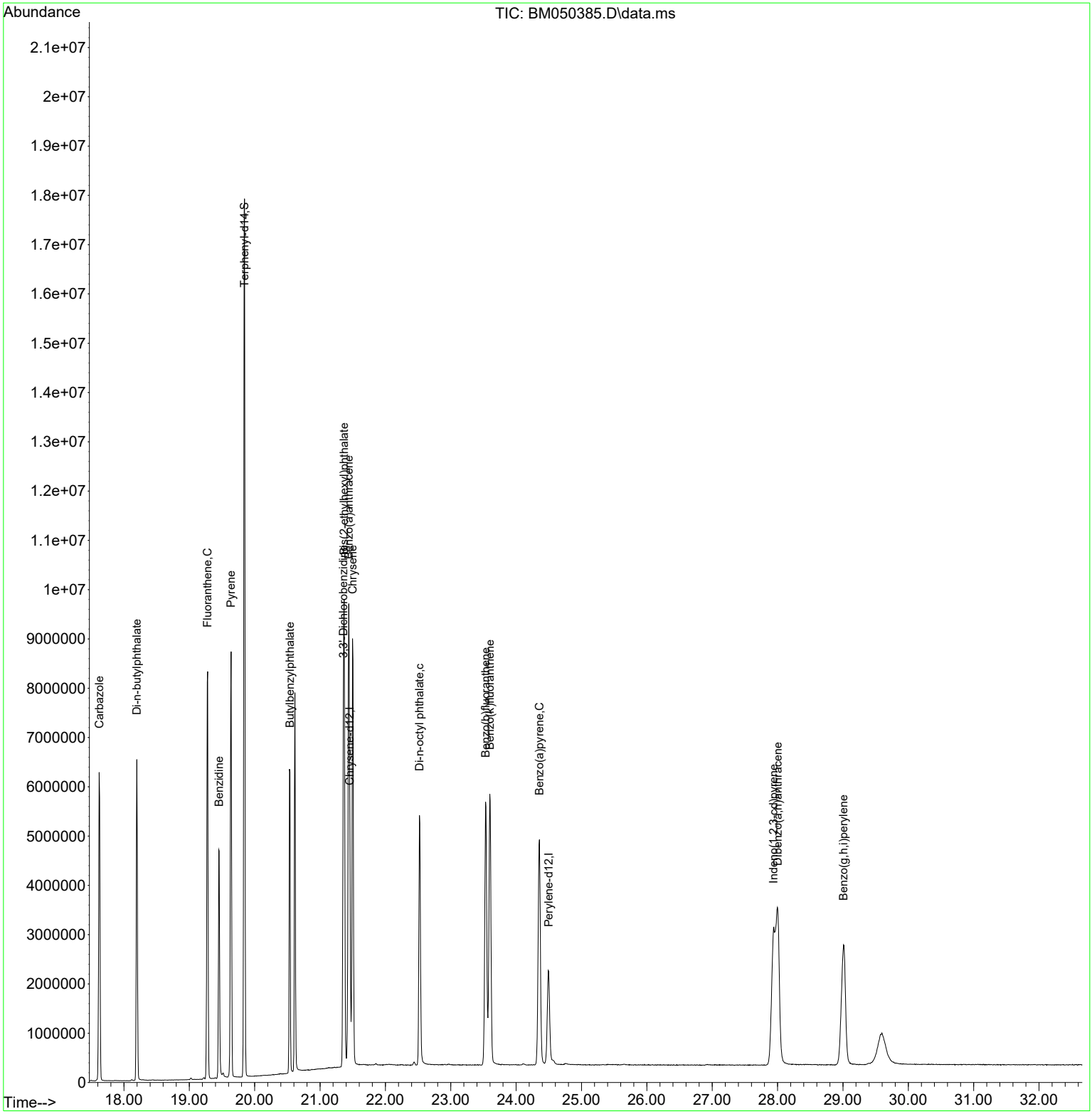


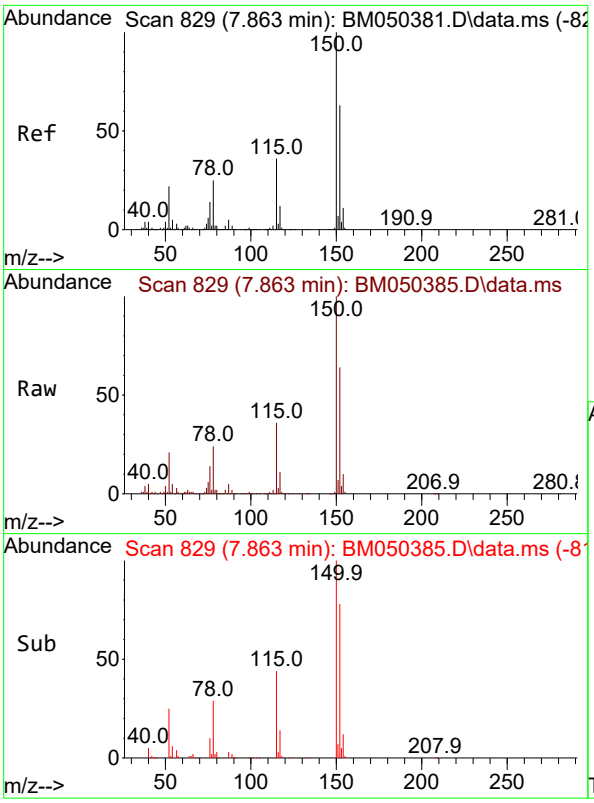
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

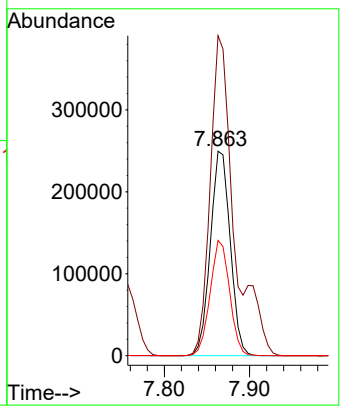




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 8
Delta R.T. -0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:152 Resp: 40434

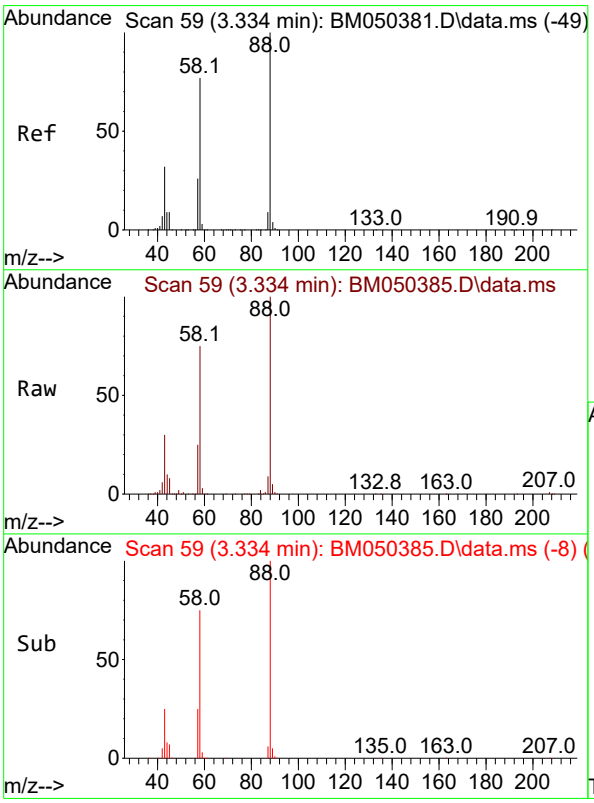
Ion	Ratio	Lower	Upper
152	100		
150	156.4	126.2	189.4
115	56.3	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

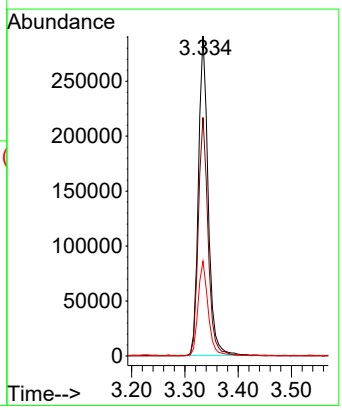
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

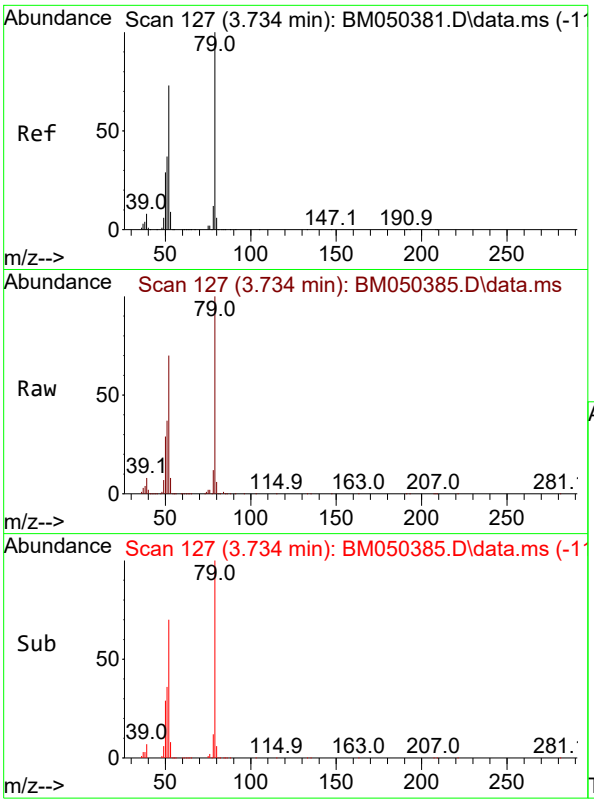


#2
1,4-Dioxane
Concen: 37.994 ng
RT: 3.334 min Scan# 59
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 88 Resp: 366994

Ion	Ratio	Lower	Upper
88	100		
58	75.3	61.0	91.6
43	30.2	24.6	37.0

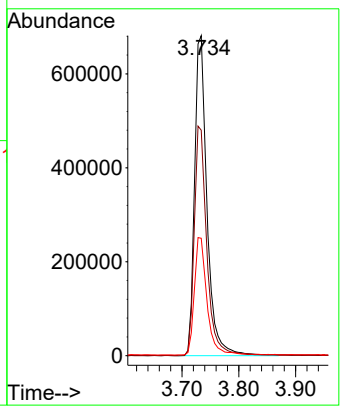




#3
Pyridine
Concen: 41.118 ng
RT: 3.734 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 79 Resp: 104271

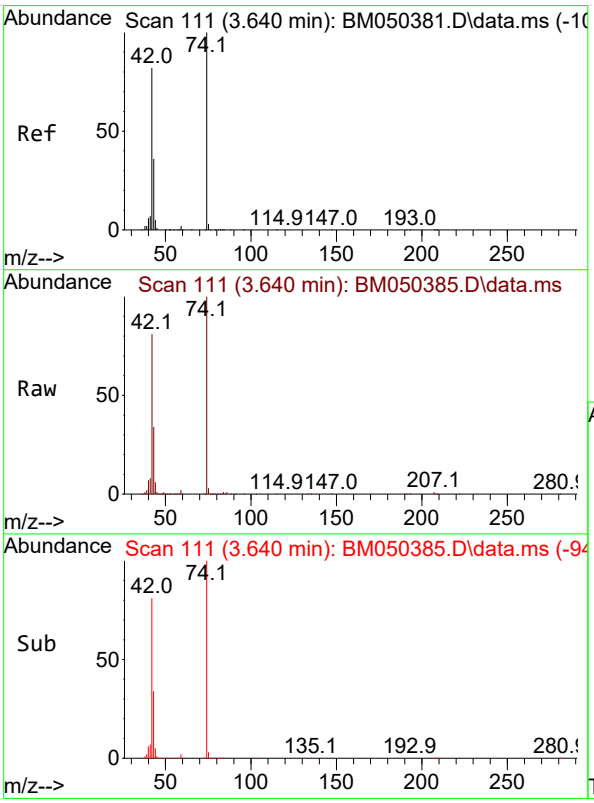
Ion	Ratio	Lower	Upper
79	100		
52	70.5	58.3	87.5
51	36.7	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

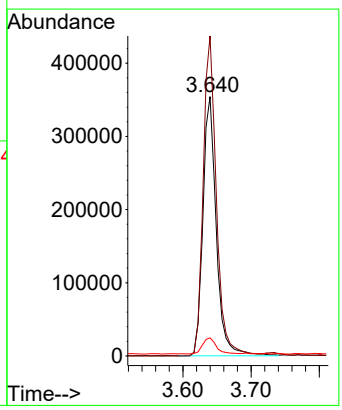
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

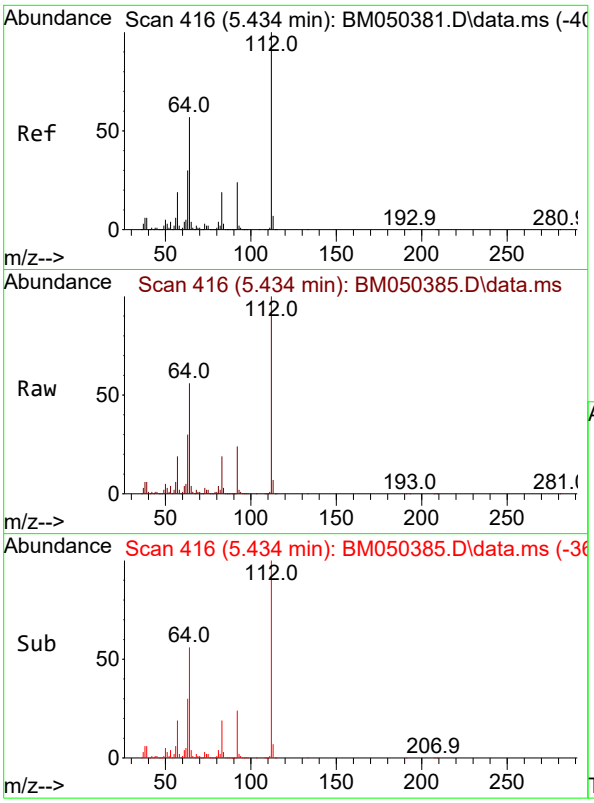


#4
n-Nitrosodimethylamine
Concen: 40.835 ng
RT: 3.640 min Scan# 111
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 42 Resp: 482767

Ion	Ratio	Lower	Upper
42	100		
74	123.4	97.5	146.3
44	7.0	5.7	8.5

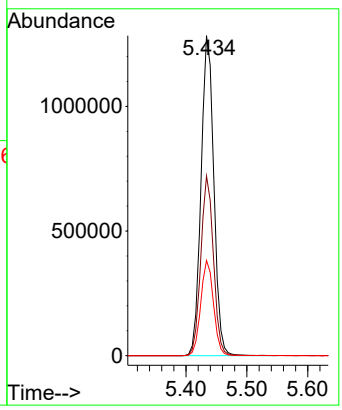




#5
2-Fluorophenol
Concen: 79.859 ng
RT: 5.434 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:112 Resp: 187592

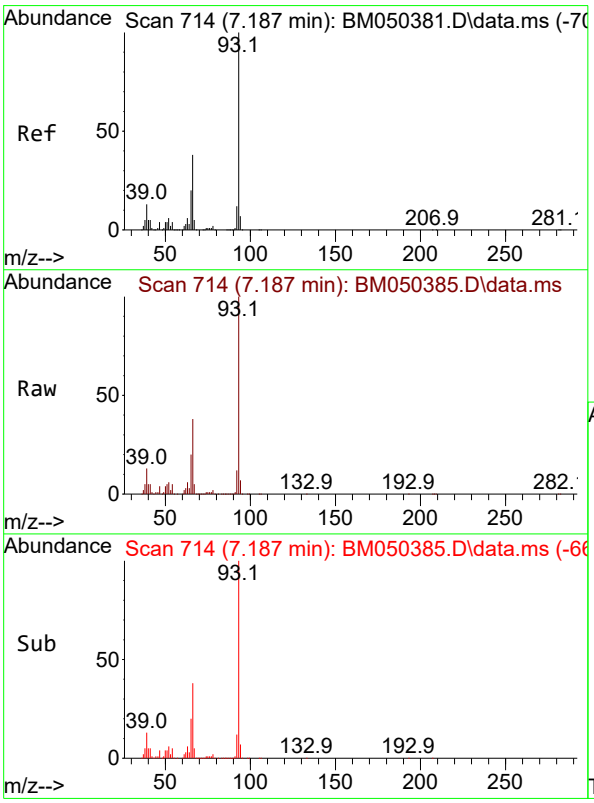
Ion	Ratio	Lower	Upper
112	100		
64	56.1	45.5	68.3
63	29.8	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

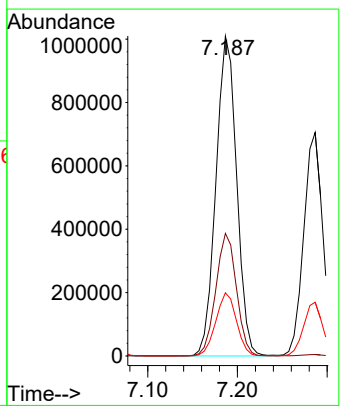
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

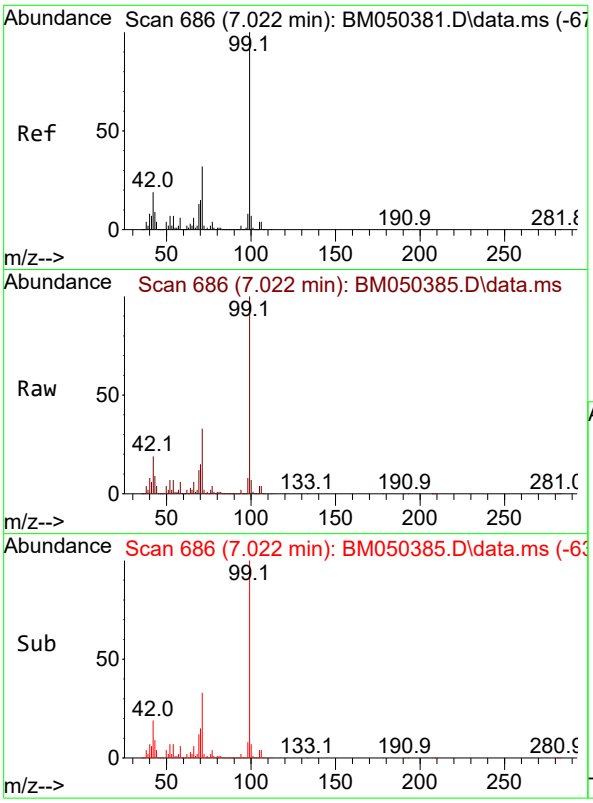


#6
Aniline
Concen: 42.568 ng
RT: 7.187 min Scan# 714
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 93 Resp: 1617701

Ion	Ratio	Lower	Upper
93	100		
66	38.3	30.5	45.7
65	19.7	15.9	23.9

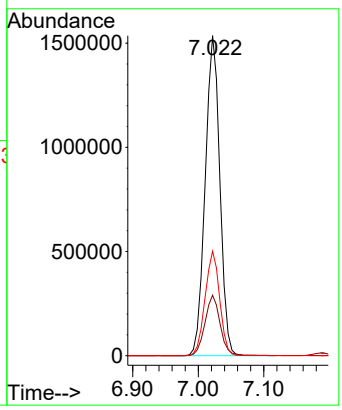




#7
Phenol-d6
Concen: 80.660 ng
RT: 7.022 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 99 Resp: 238852

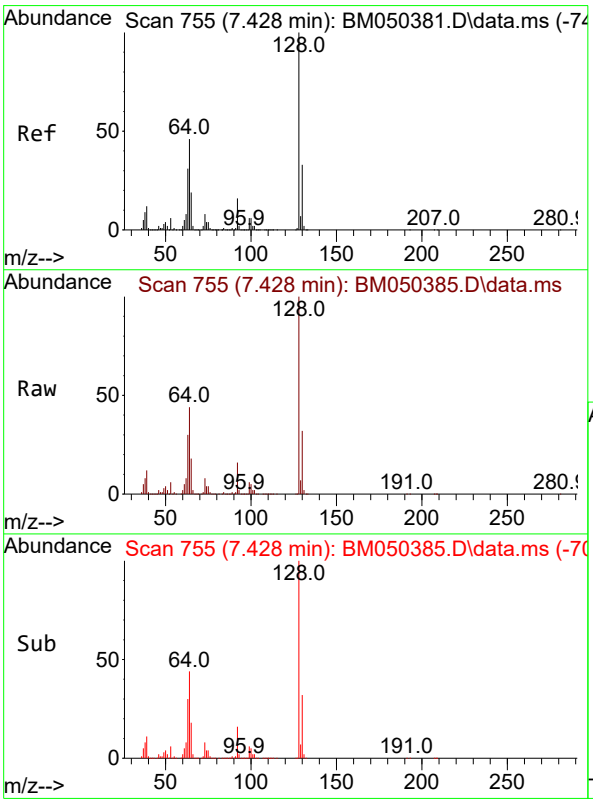
Ion	Ratio	Lower	Upper
99	100		
42	18.9	15.0	22.6
71	32.6	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

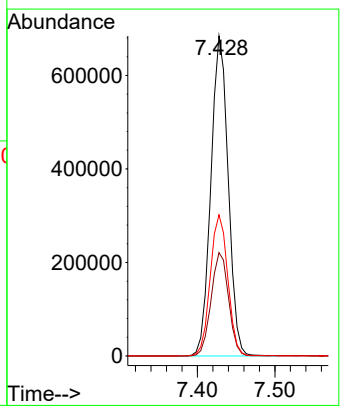
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

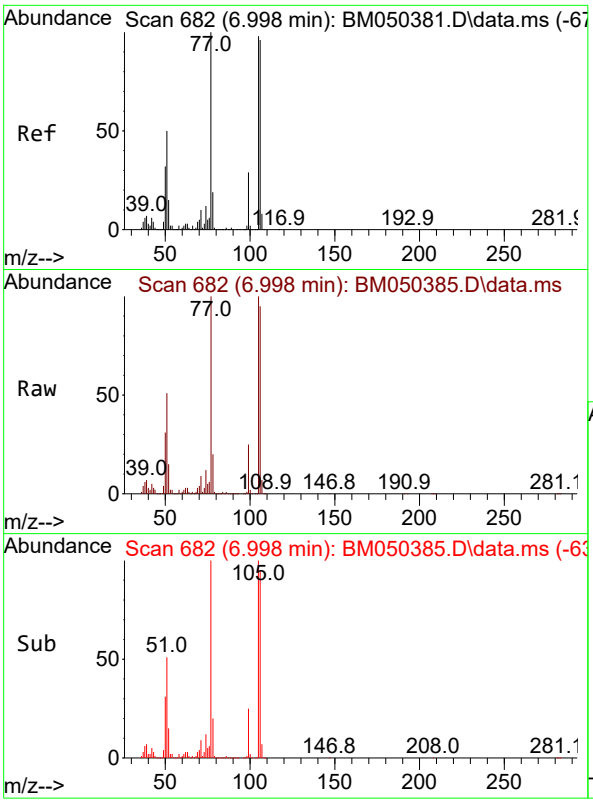


#8
2-Chlorophenol
Concen: 42.935 ng
RT: 7.428 min Scan# 755
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:128 Resp: 1063478

Ion	Ratio	Lower	Upper
128	100		
130	32.3	13.3	53.3
64	44.1	25.6	65.6

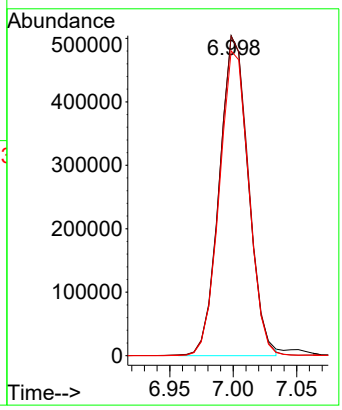




#9
Benzaldehyde
Concen: 45.376 ng m
RT: 6.998 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 77 Resp: 79931

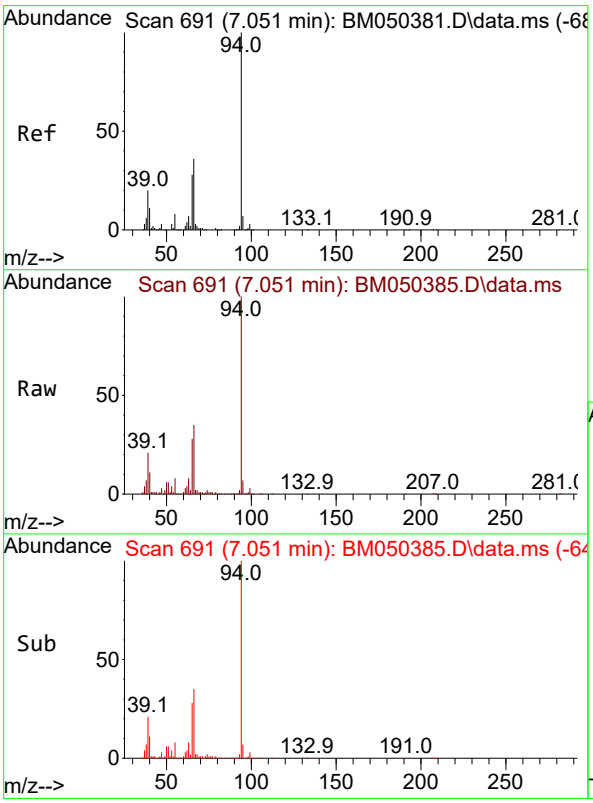
Ion	Ratio	Lower	Upper
77	100		
105	99.8	78.4	118.4
106	95.2	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

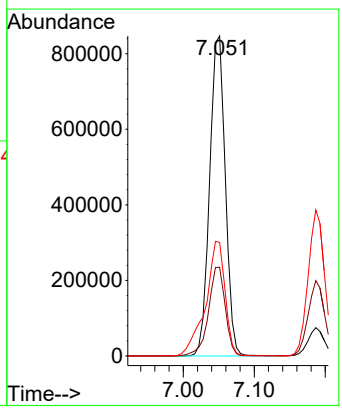
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

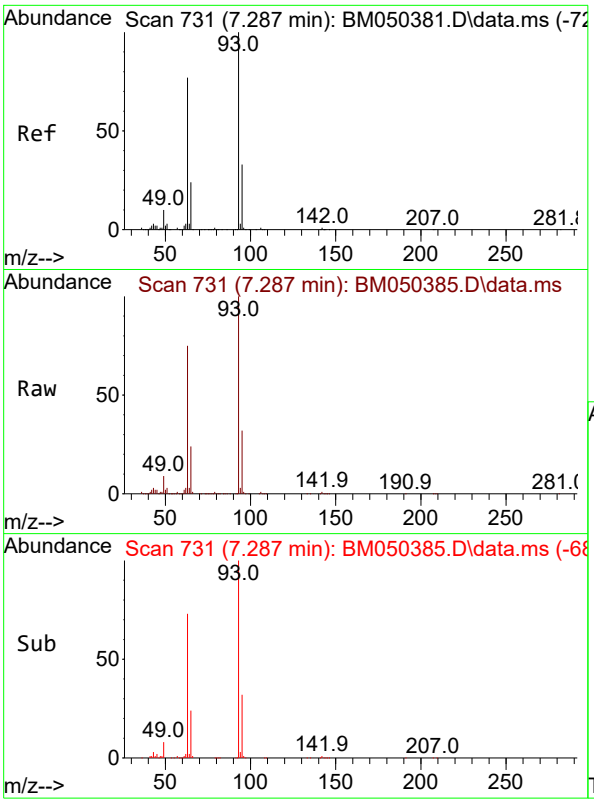


#10
Phenol
Concen: 42.114 ng
RT: 7.051 min Scan# 691
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 94 Resp: 1300713

Ion	Ratio	Lower	Upper
94	100		
65	27.7	8.1	48.1
66	35.5	15.8	55.8





#11
bis(2-Chloroethyl)ether
Concen: 42.240 ng
RT: 7.287 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

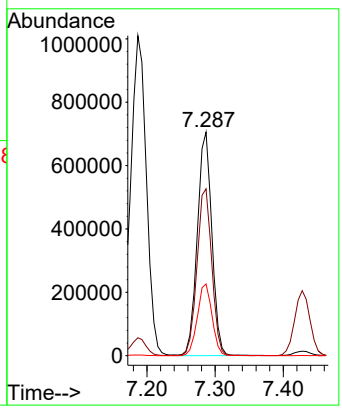
Tgt Ion: 93 Resp: 104480

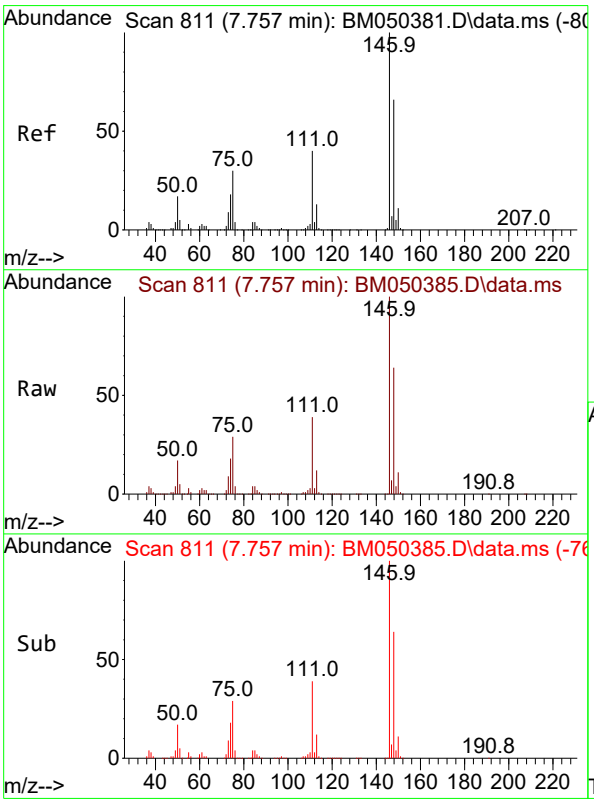
Ion	Ratio	Lower	Upper
93	100		
63	74.7	56.9	96.9
95	32.1	12.6	52.6

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

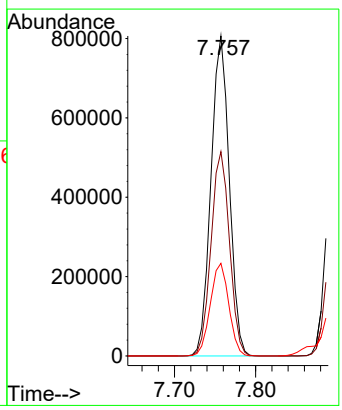


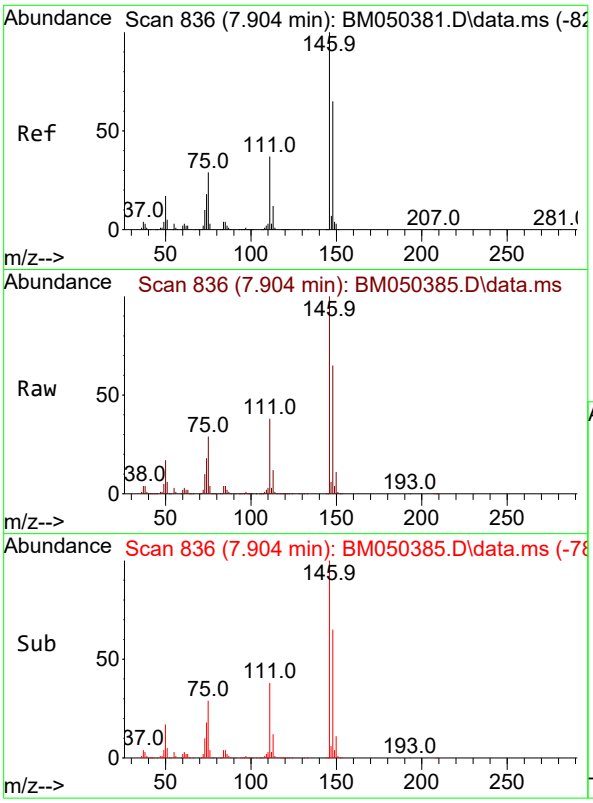


#12
1,3-Dichlorobenzene
Concen: 41.848 ng
RT: 7.757 min Scan# 811
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:146 Resp: 1260411

Ion	Ratio	Lower	Upper
146	100		
148	63.8	53.2	79.8
75	28.9	23.9	35.9

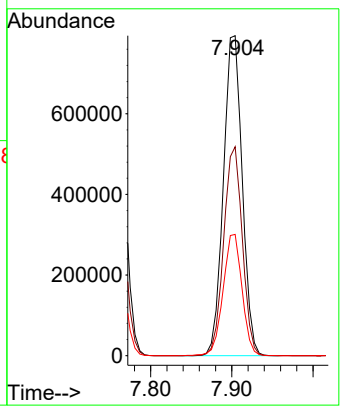




#13
1,4-Dichlorobenzene
Concen: 41.609 ng
RT: 7.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:146 Resp: 127965

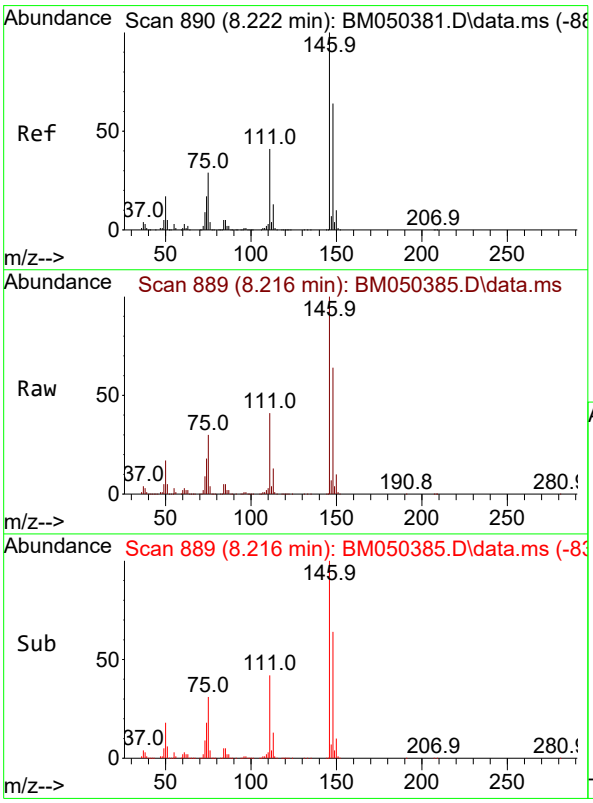
Ion	Ratio	Lower	Upper
146	100		
148	65.3	51.9	77.9
111	37.9	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

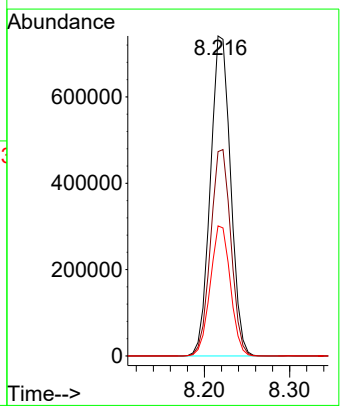
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

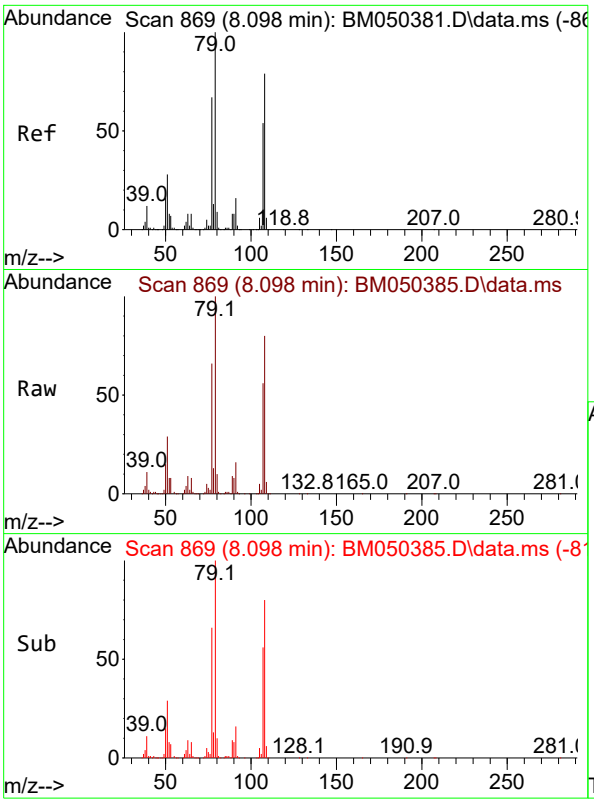


#14
1,2-Dichlorobenzene
Concen: 41.478 ng
RT: 8.216 min Scan# 889
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:146 Resp: 1221241

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.5	77.3
111	40.6	32.6	49.0

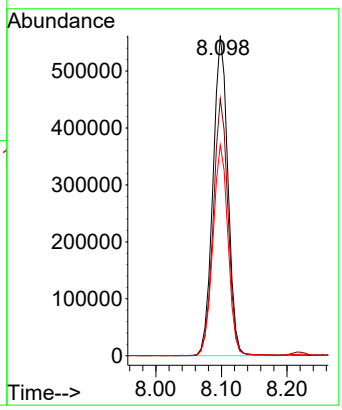




#15
Benzyl Alcohol
Concen: 42.555 ng
RT: 8.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 79 Resp: 88789

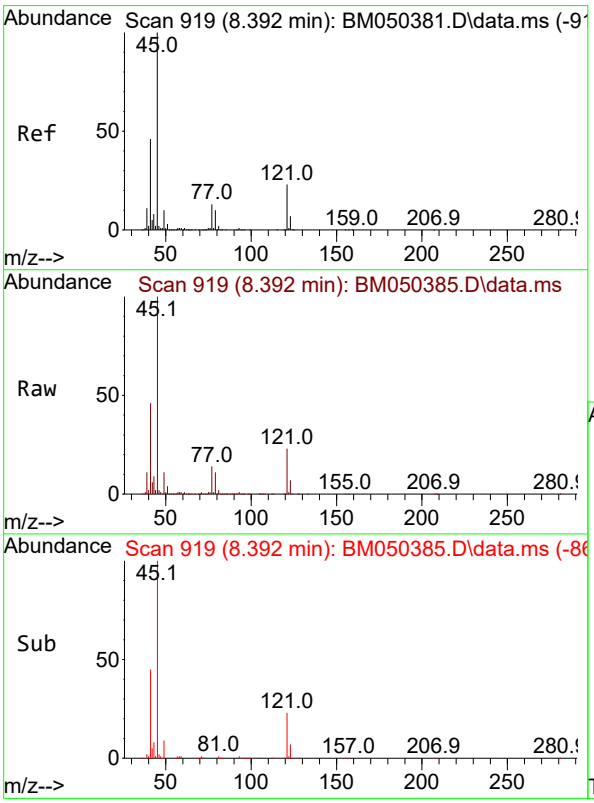
Ion	Ratio	Lower	Upper
79	100		
108	80.3	63.0	94.4
77	65.8	53.4	80.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

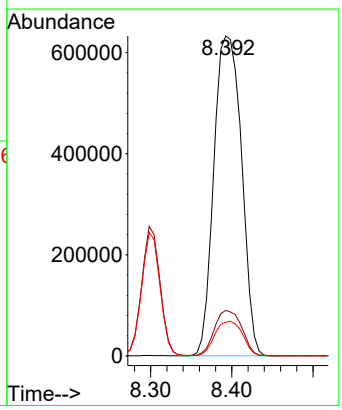
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

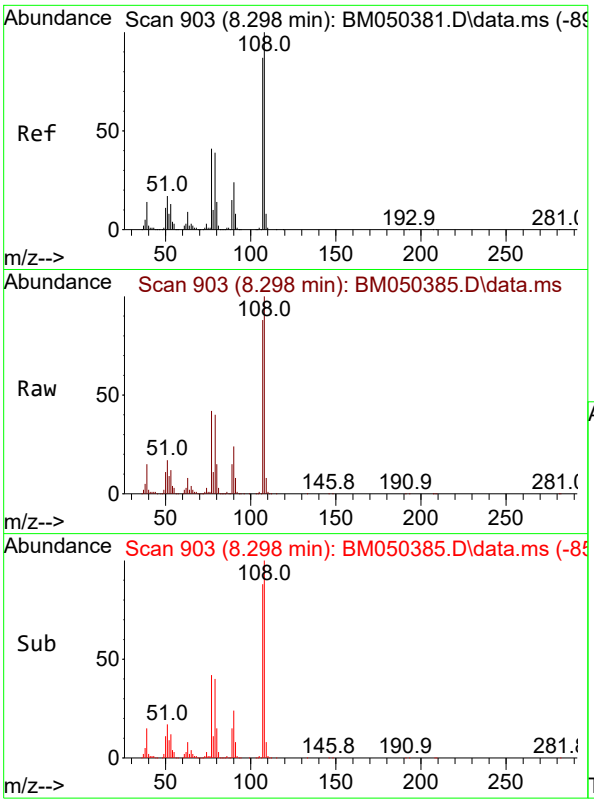


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.095 ng
RT: 8.392 min Scan# 919
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 45 Resp: 1497256

Ion	Ratio	Lower	Upper
45	100		
77	14.2	0.0	33.5
79	10.5	0.0	30.3

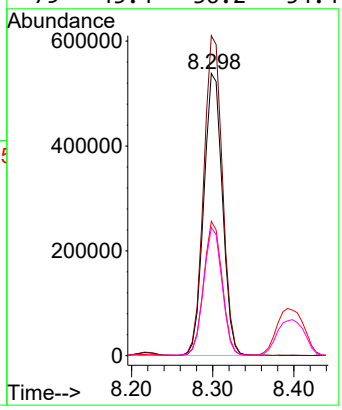




#17
2-Methylphenol
Concen: 42.726 ng
RT: 8.298 min Scan# 9
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:107 Resp: 85588

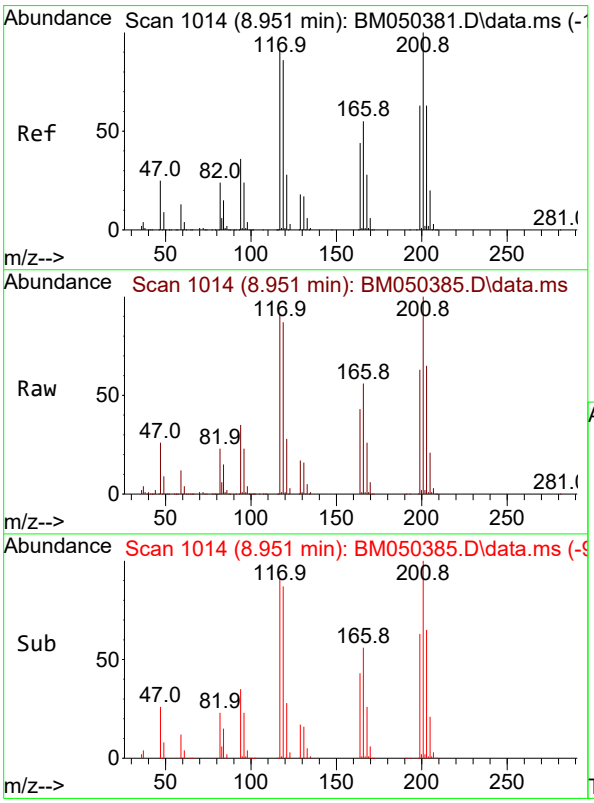
Ion	Ratio	Lower	Upper
107	100		
108	113.4	92.1	138.1
77	47.6	38.2	57.4
79	45.4	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

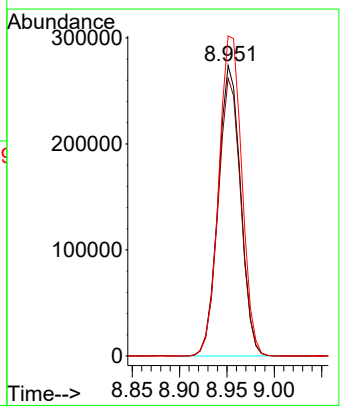
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

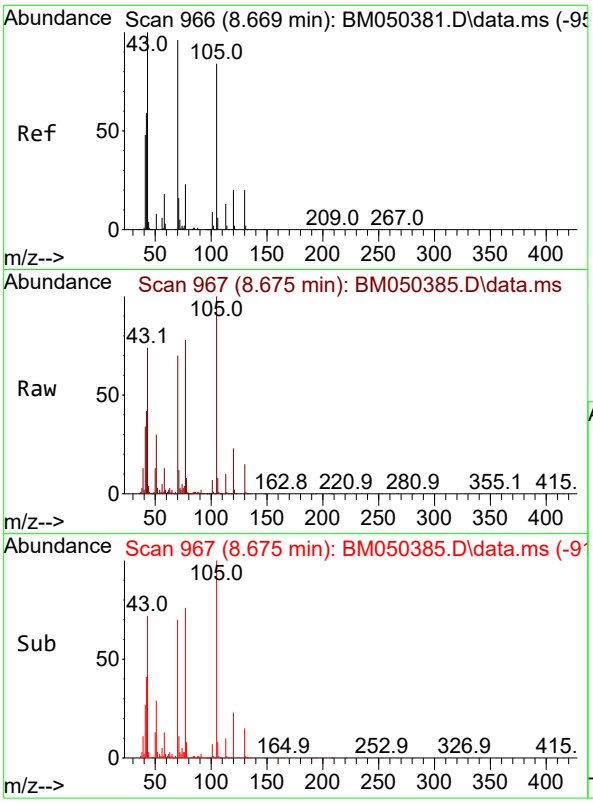


#18
Hexachloroethane
Concen: 41.906 ng
RT: 8.951 min Scan# 1014
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:117 Resp: 453255

Ion	Ratio	Lower	Upper
117	100		
119	95.7	75.6	113.4
201	110.2	87.9	131.9

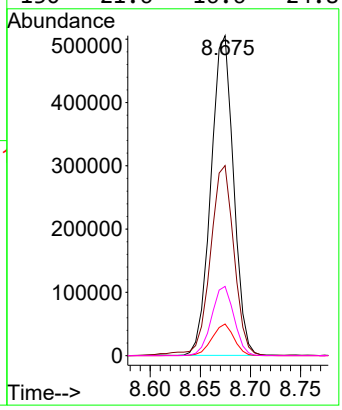




#19
n-Nitroso-di-n-propylamine
Concen: 44.168 ng
RT: 8.675 min Scan# 9
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 70 Resp: 79233

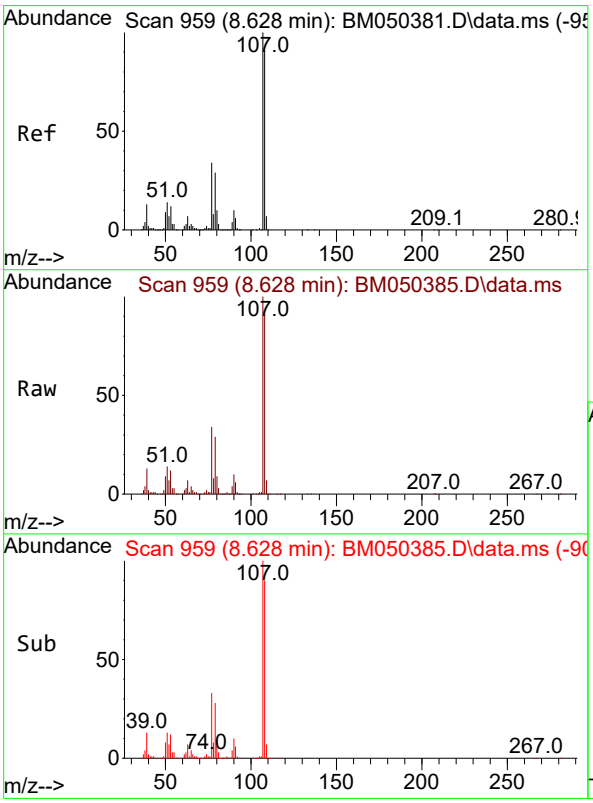
Ion	Ratio	Lower	Upper
70	100		
42	59.4	49.7	74.5
101	9.9	7.7	11.5
130	21.6	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

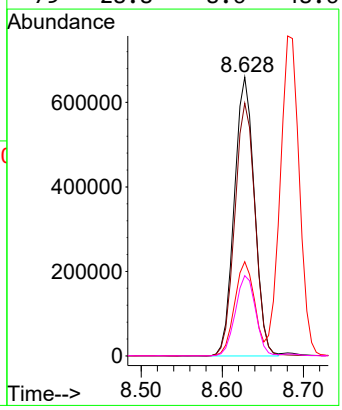
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

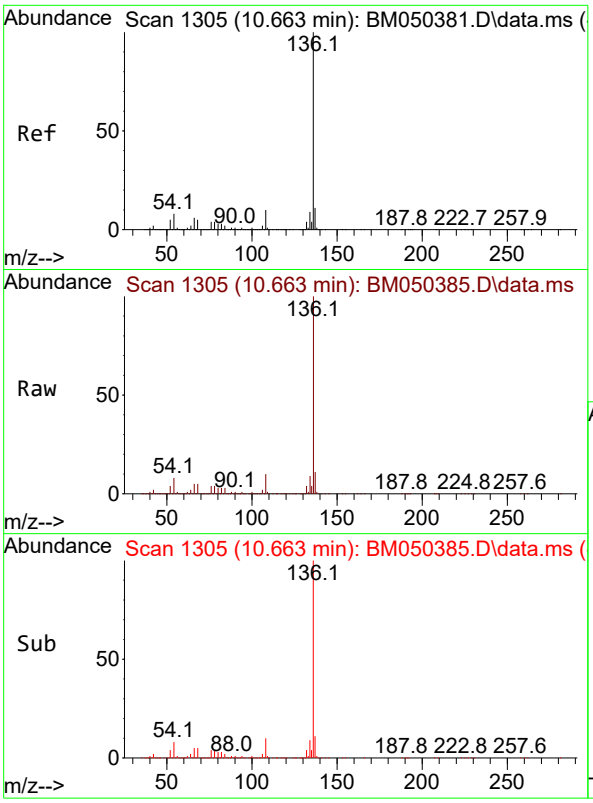


#20
3+4-Methylphenols
Concen: 42.276 ng
RT: 8.628 min Scan# 959
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:107 Resp: 1136862

Ion	Ratio	Lower	Upper
107	100		
108	90.7	71.5	111.5
77	33.8	13.7	53.7
79	28.8	8.6	48.6

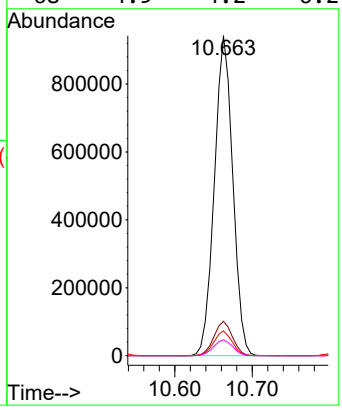




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:136 Resp: 155404

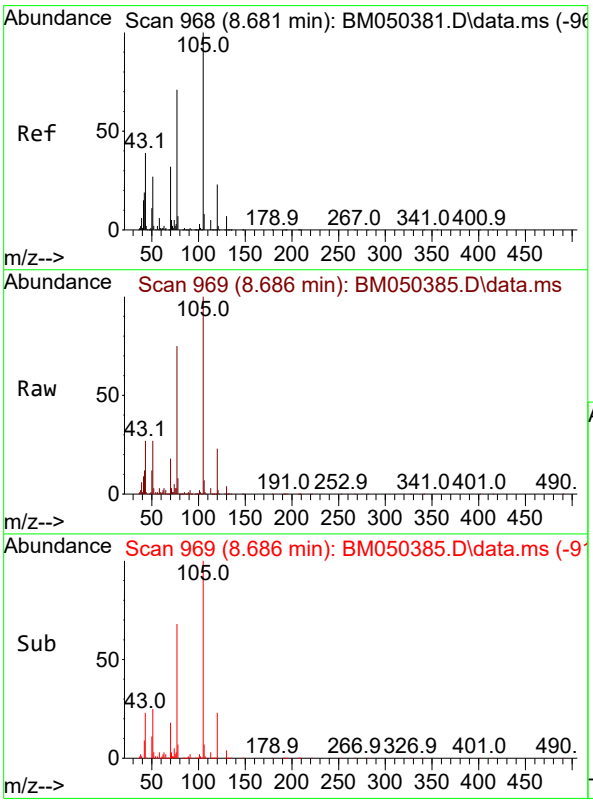
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.7	6.3	9.5
68	4.9	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

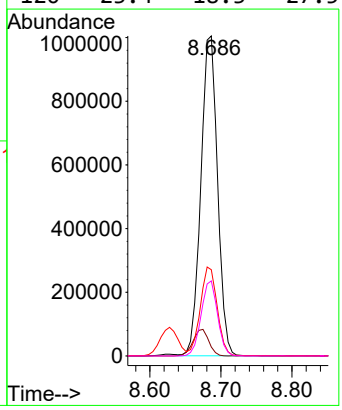
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

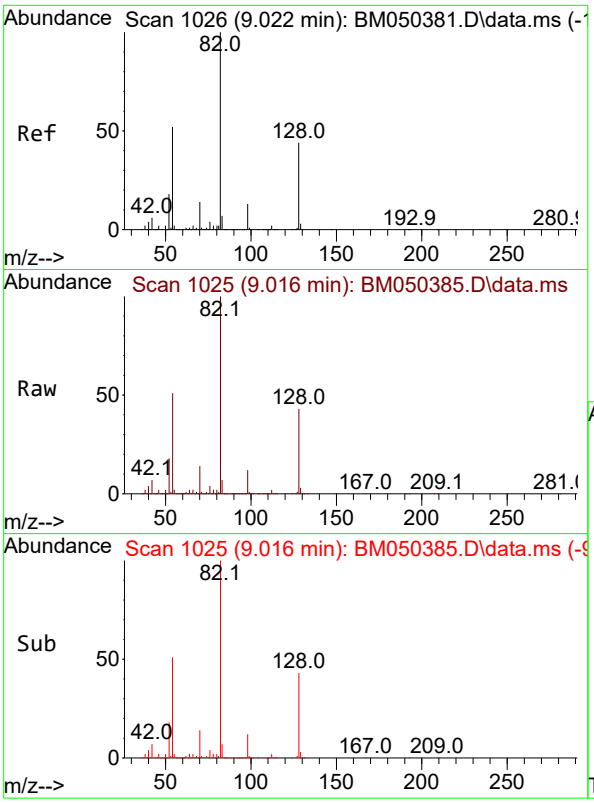


#22
Acetophenone
Concen: 42.290 ng
RT: 8.686 min Scan# 969
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:105 Resp: 1643199

Ion	Ratio	Lower	Upper
105	100		
71	2.8	4.4	6.6#
51	27.0	23.0	34.6
120	23.4	18.3	27.5

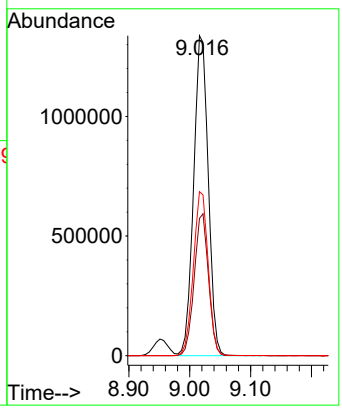




#23
Nitrobenzene-d5
Concen: 73.139 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 82 Resp: 222787

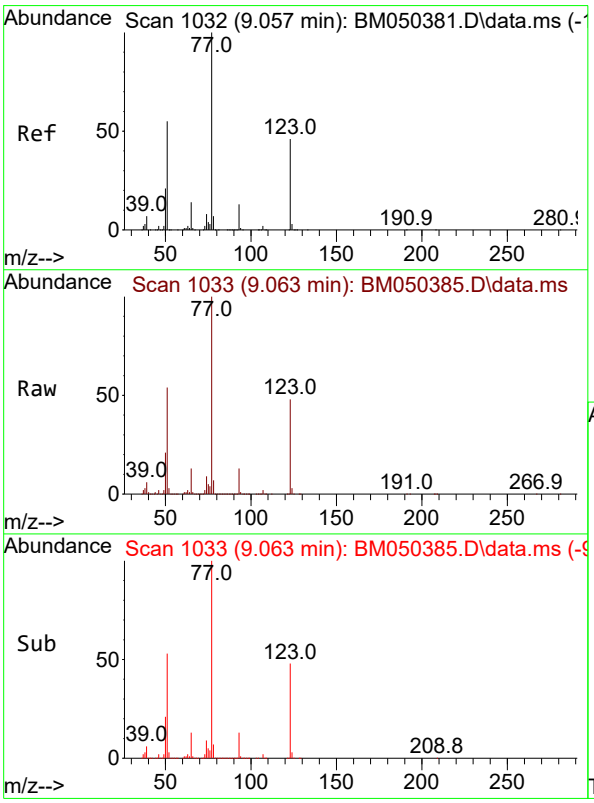
Ion	Ratio	Lower	Upper
82	100		
128	42.9	35.2	52.8
54	51.2	41.5	62.3



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

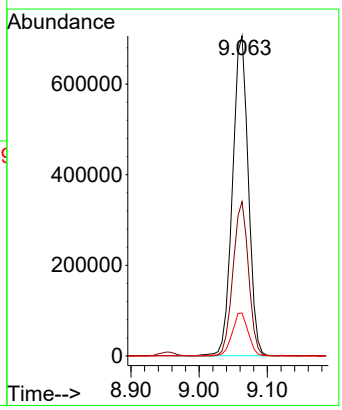
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

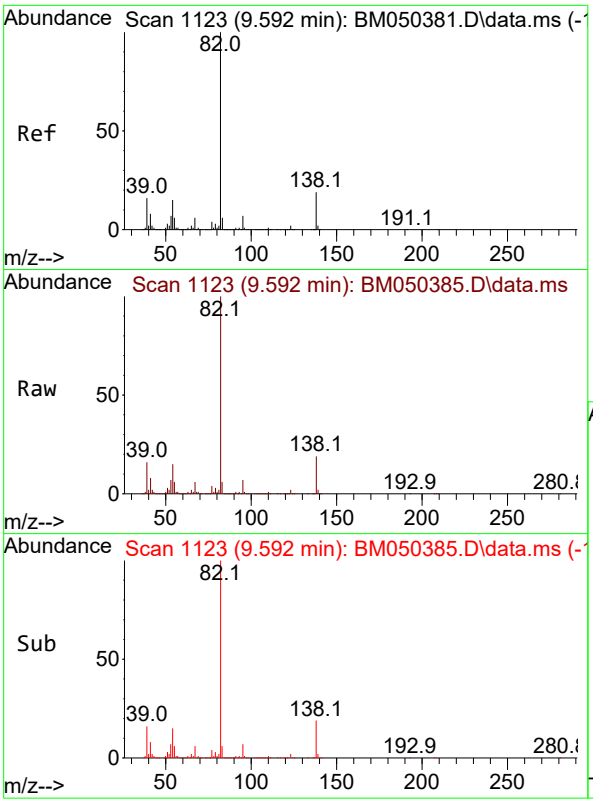


#24
Nitrobenzene
Concen: 41.860 ng
RT: 9.063 min Scan# 1033
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 77 Resp: 1137842

Ion	Ratio	Lower	Upper
77	100		
123	48.3	37.0	55.6
65	13.4	11.0	16.4

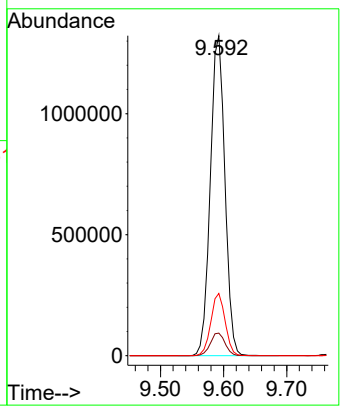




#25
Isophorone
Concen: 42.909 ng
RT: 9.592 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 82 Resp: 212087

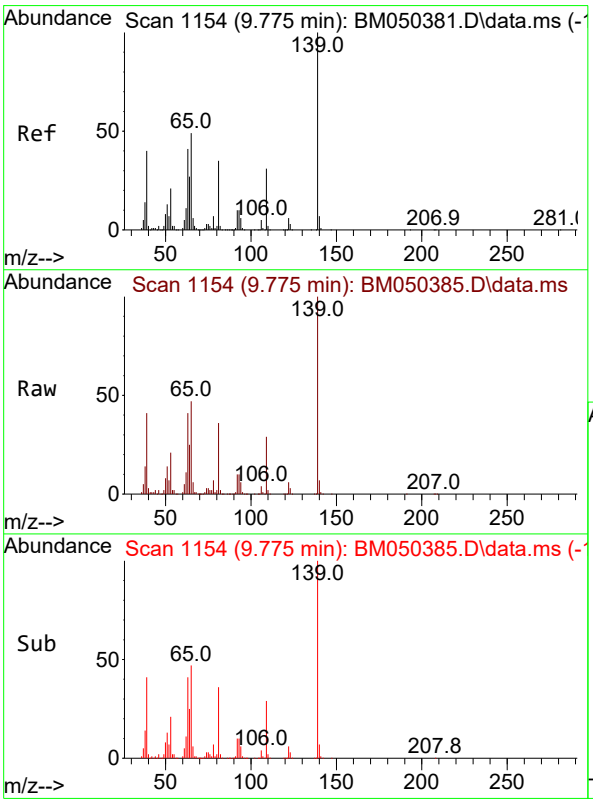
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	19.4	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

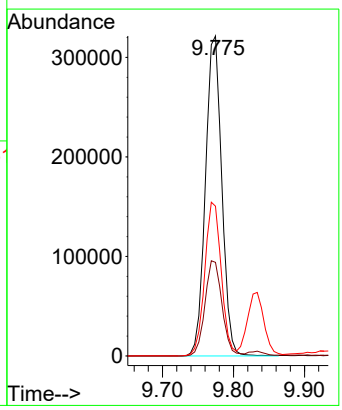
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

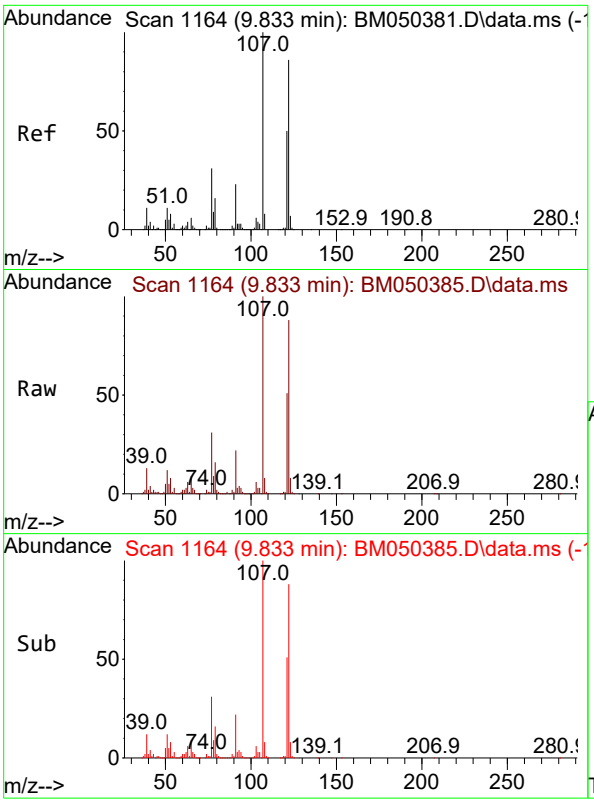


#26
2-Nitrophenol
Concen: 46.488 ng
RT: 9.775 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:139 Resp: 514999

Ion	Ratio	Lower	Upper
139	100		
109	29.3	24.6	36.8
65	46.8	39.2	58.8

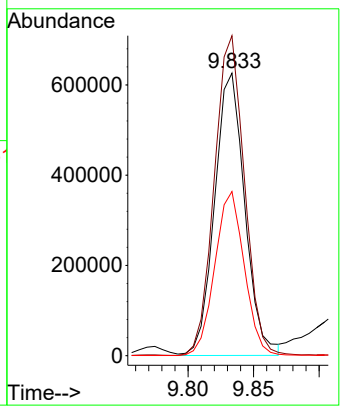




#27
2,4-Dimethylphenol
Concen: 42.470 ng
RT: 9.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:122 Resp: 100114

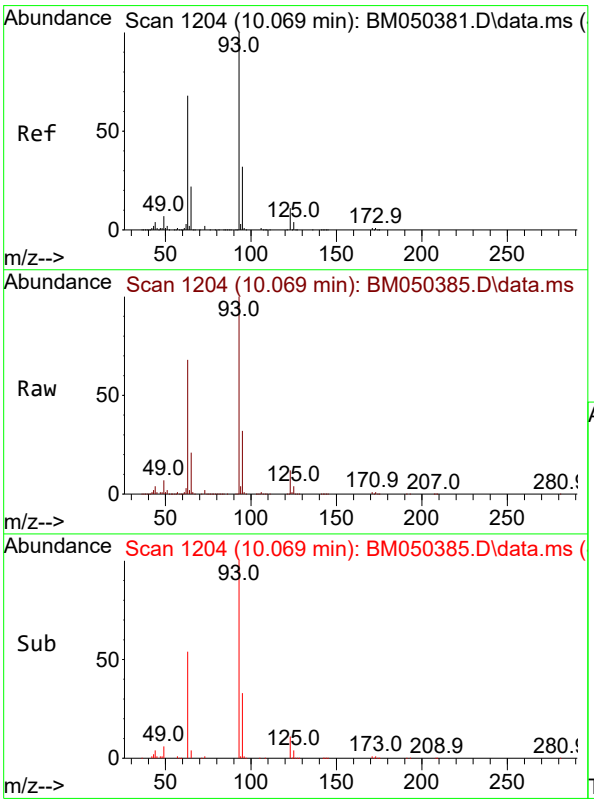
Ion	Ratio	Lower	Upper
122	100		
107	113.2	93.0	139.6
121	58.1	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

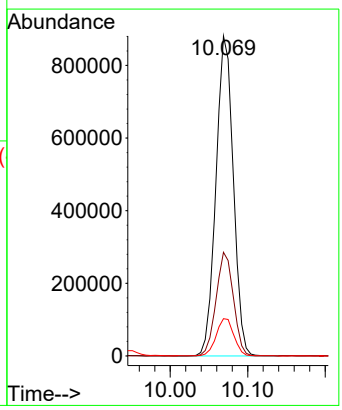
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

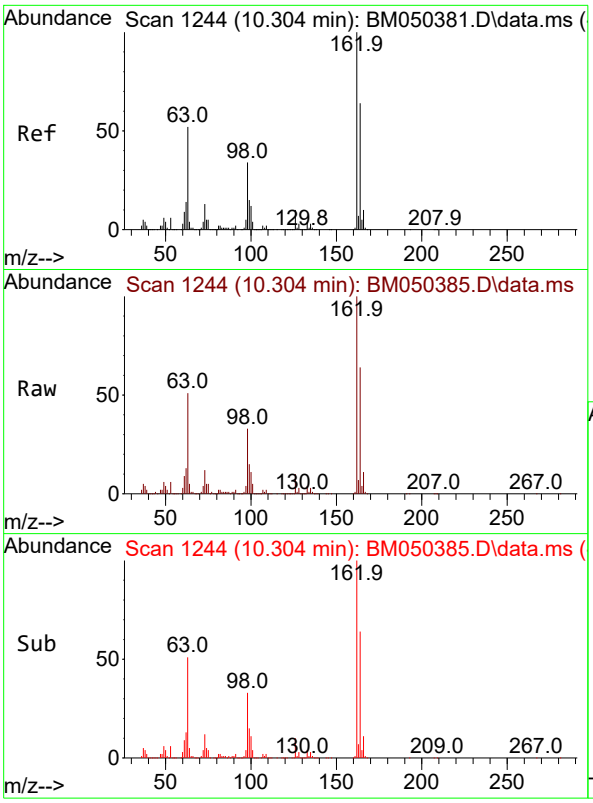


#28
bis(2-Chloroethoxy)methane
Concen: 41.880 ng
RT: 10.069 min Scan# 1204
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 93 Resp: 1371682

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.8	38.6
123	11.6	9.1	13.7

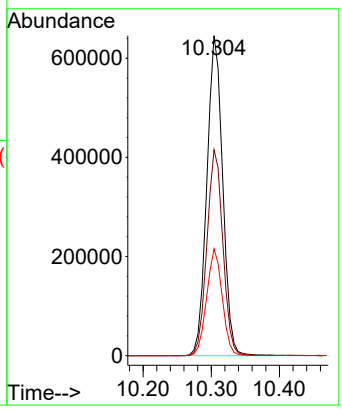




#29
2,4-Dichlorophenol
Concen: 43.061 ng
RT: 10.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:162 Resp: 104286

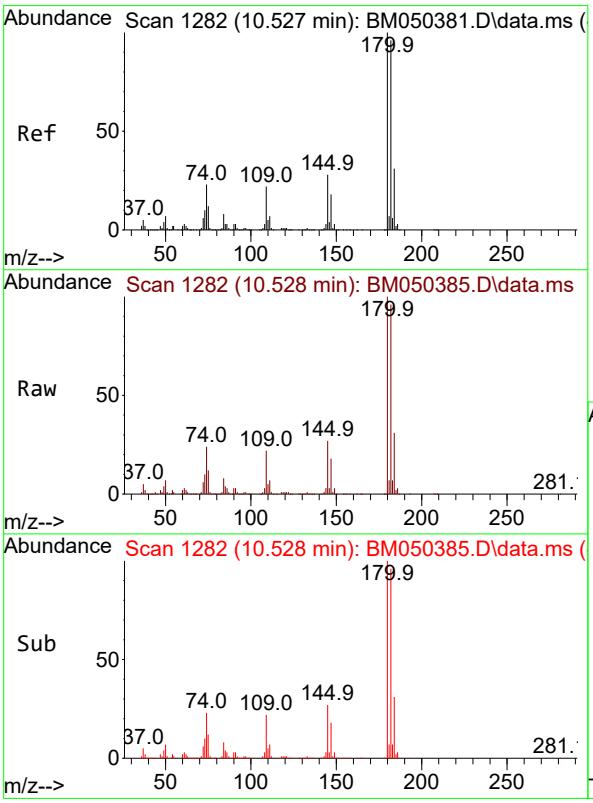
Ion	Ratio	Lower	Upper
162	100		
164	64.3	43.7	83.7
98	33.3	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

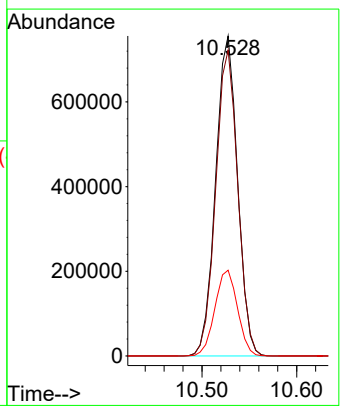
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

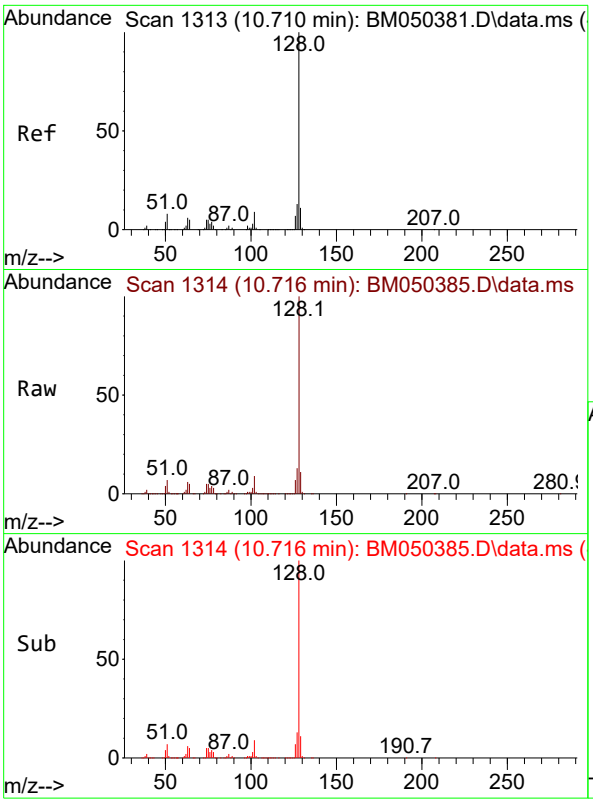


#30
1,2,4-Trichlorobenzene
Concen: 42.001 ng
RT: 10.528 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:180 Resp: 1216831

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.8	115.2
145	26.8	22.6	33.8

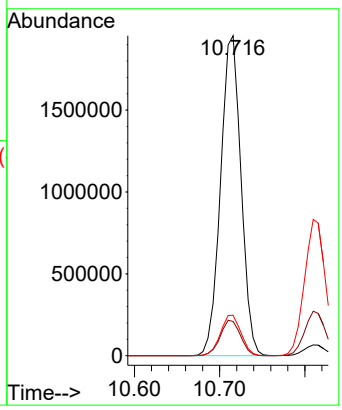




#31
Naphthalene
Concen: 41.281 ng
RT: 10.716 min Scan# 1
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:128 Resp: 325849

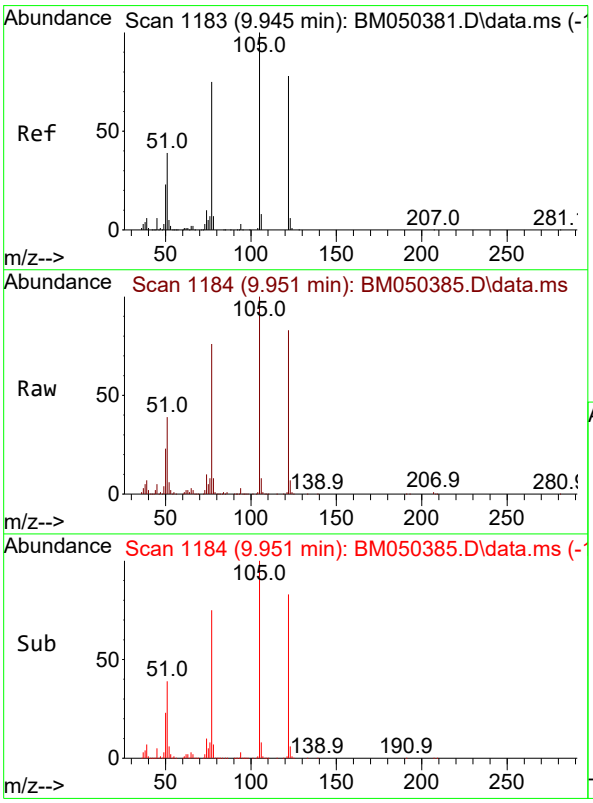
Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	12.7	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

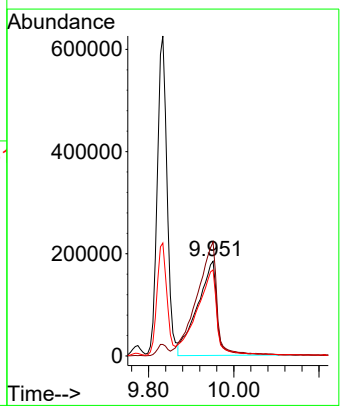
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

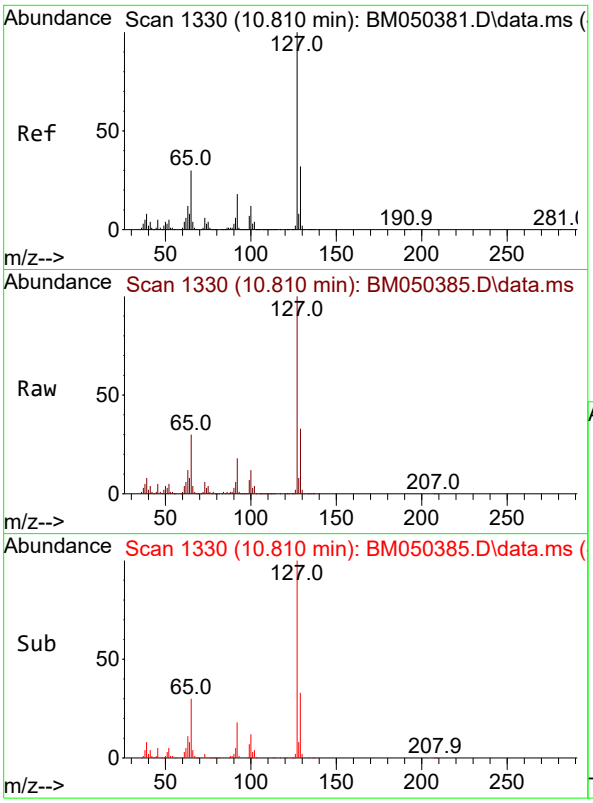


#32
Benzoic acid
Concen: 41.913 ng
RT: 9.951 min Scan# 1184
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:122 Resp: 593935

Ion	Ratio	Lower	Upper
122	100		
105	120.3	104.0	144.0
77	90.9	73.8	113.8

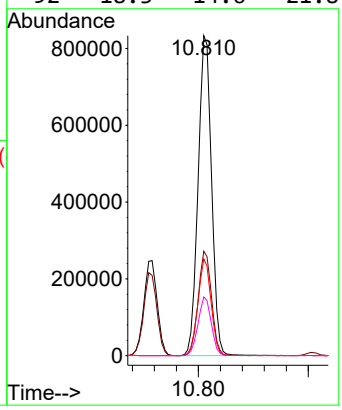




#33
4-Chloroaniline
Concen: 42.424 ng
RT: 10.810 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:127 Resp: 141571

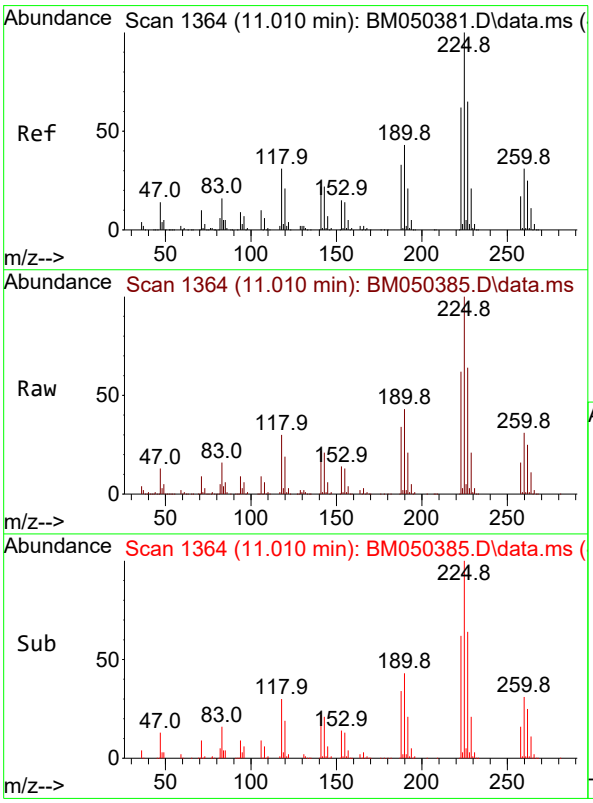
Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.5	38.3
65	30.3	23.9	35.9
92	18.3	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

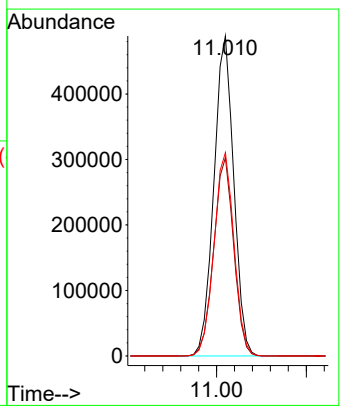
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

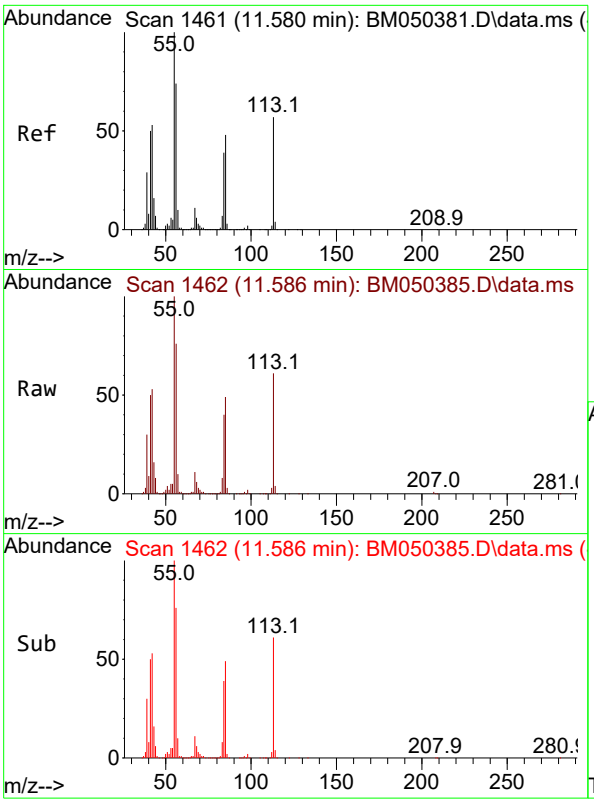


#34
Hexachlorobutadiene
Concen: 42.386 ng
RT: 11.010 min Scan# 1364
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:225 Resp: 749497

Ion	Ratio	Lower	Upper
225	100		
223	62.0	49.7	74.5
227	63.5	52.1	78.1

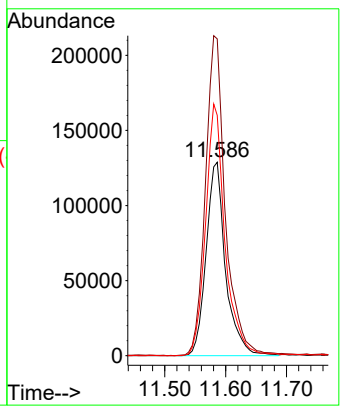




#35
Caprolactam
Concen: 43.156 ng
RT: 11.586 min Scan# 14
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:113 Resp: 28531

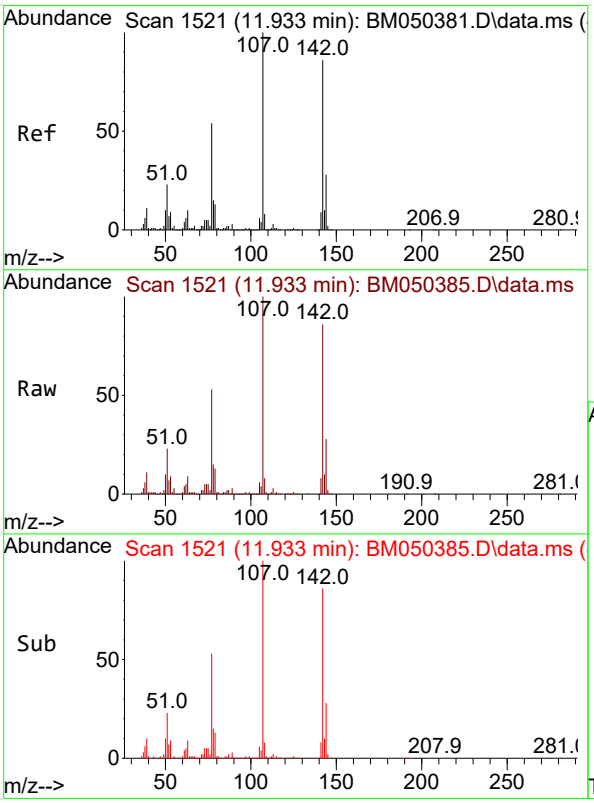
Ion	Ratio	Lower	Upper
113	100		
55	163.8	157.2	197.2
56	124.2	111.7	151.7



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

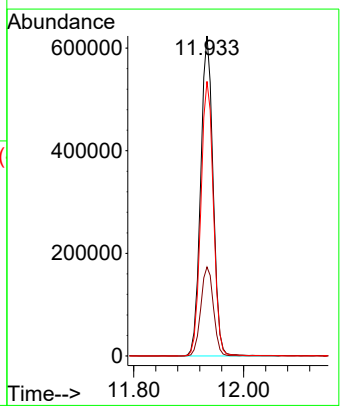
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

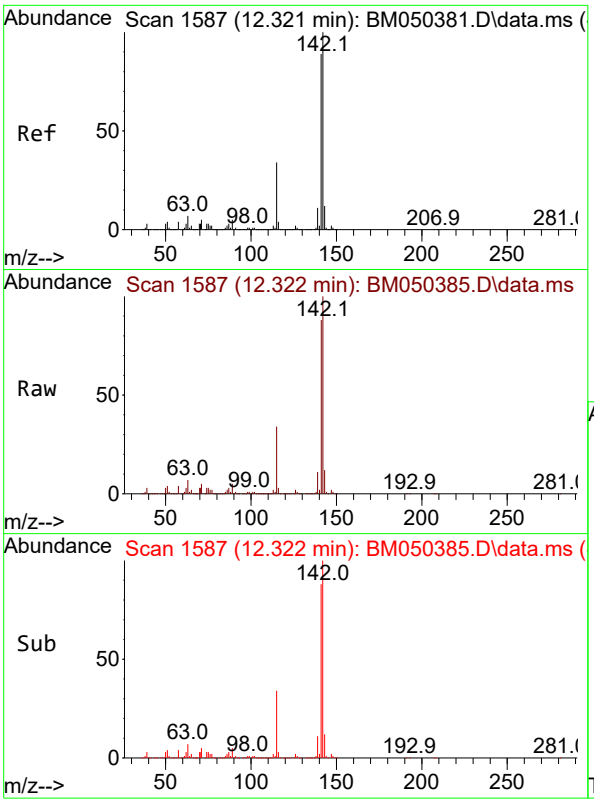


#36
4-Chloro-3-methylphenol
Concen: 43.312 ng
RT: 11.933 min Scan# 1521
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:107 Resp: 979521

Ion	Ratio	Lower	Upper
107	100		
144	27.8	22.2	33.4
142	85.8	68.7	103.1

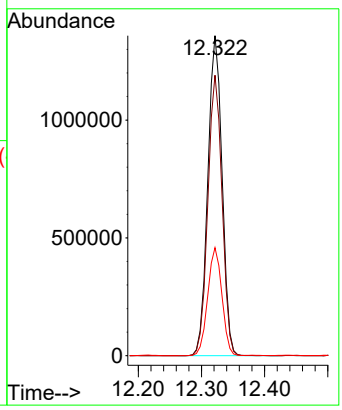




#37
2-Methylnaphthalene
Concen: 42.637 ng
RT: 12.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:142 Resp: 212498

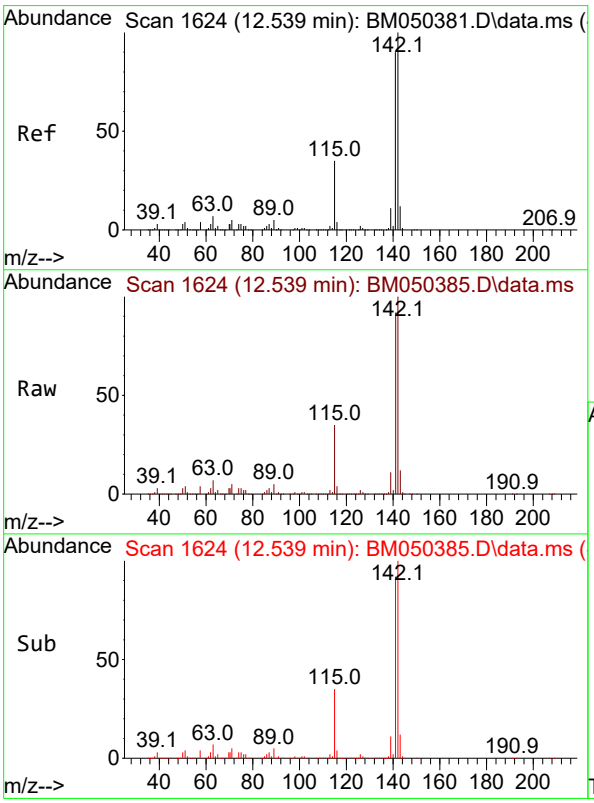
Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.8	106.2
115	33.7	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

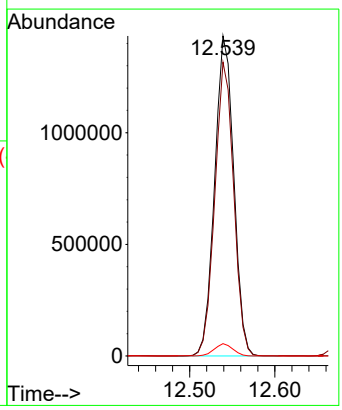
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

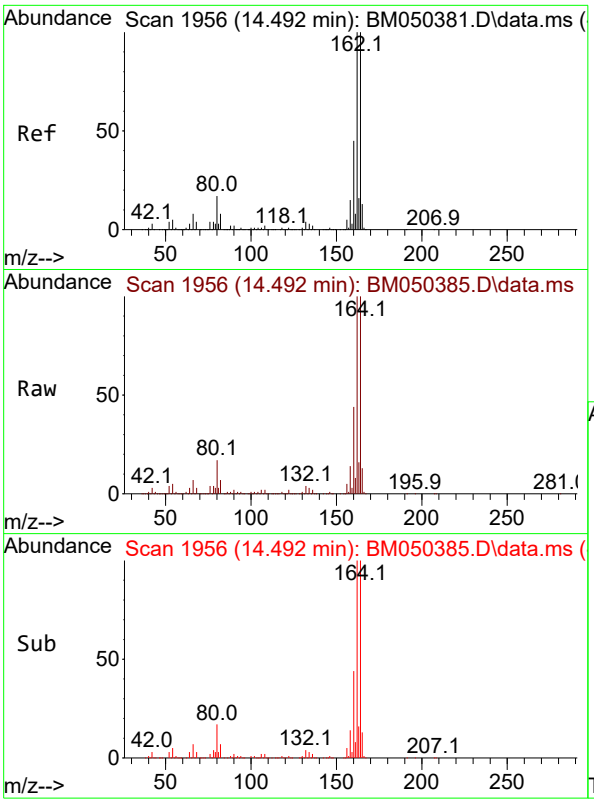


#38
1-Methylnaphthalene
Concen: 42.292 ng
RT: 12.539 min Scan# 1624
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:142 Resp: 2230710

Ion	Ratio	Lower	Upper
142	100		
141	91.8	71.9	107.9
116	3.9	3.0	4.6

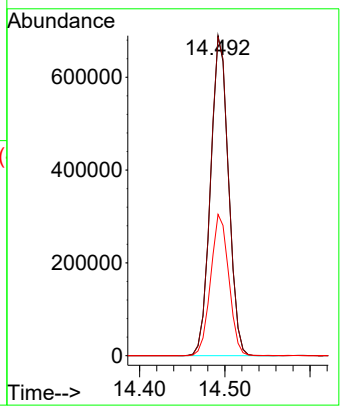




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:164 Resp: 100826

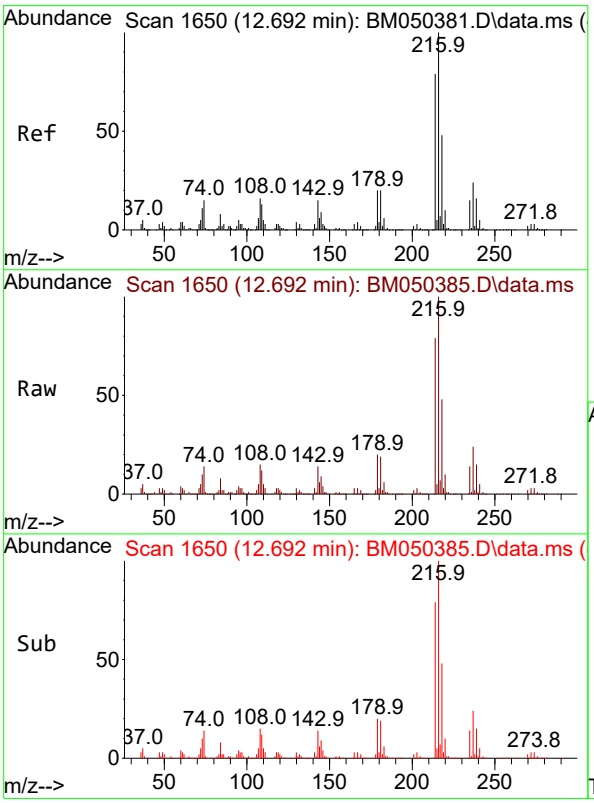
Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.9	119.9
160	44.1	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

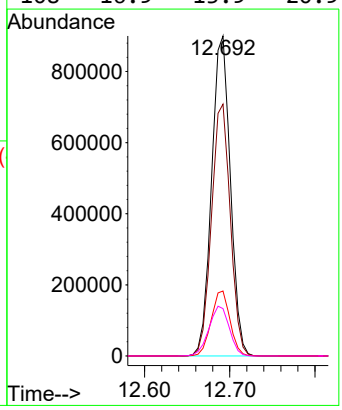
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

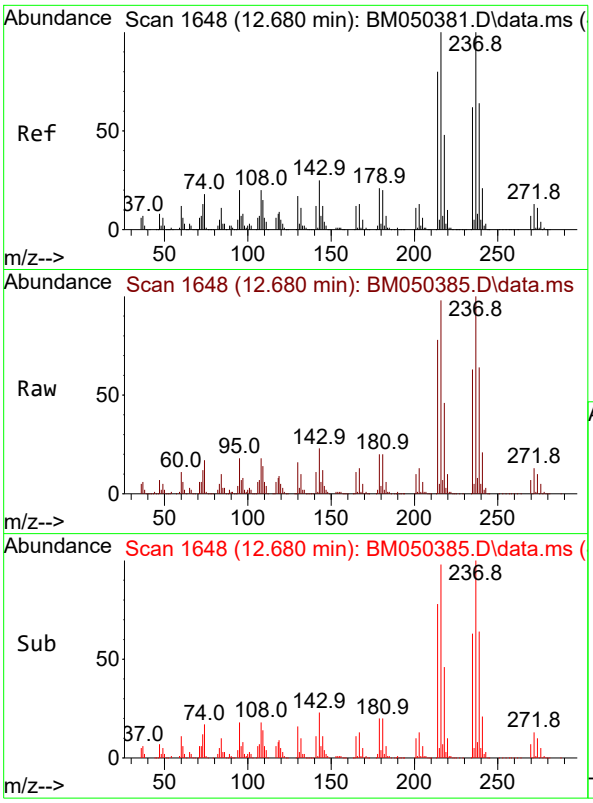


#40
1,2,4,5-Tetrachlorobenzene
Concen: 42.859 ng
RT: 12.692 min Scan# 1650
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:216 Resp: 1374217

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.3	94.9
179	20.4	16.4	24.6
108	16.9	13.9	20.9

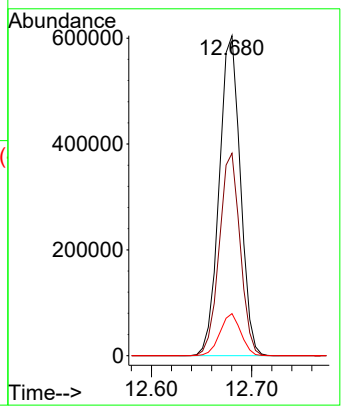




#41
Hexachlorocyclopentadiene
Concen: 43.015 ng
RT: 12.680 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:237 Resp: 88160

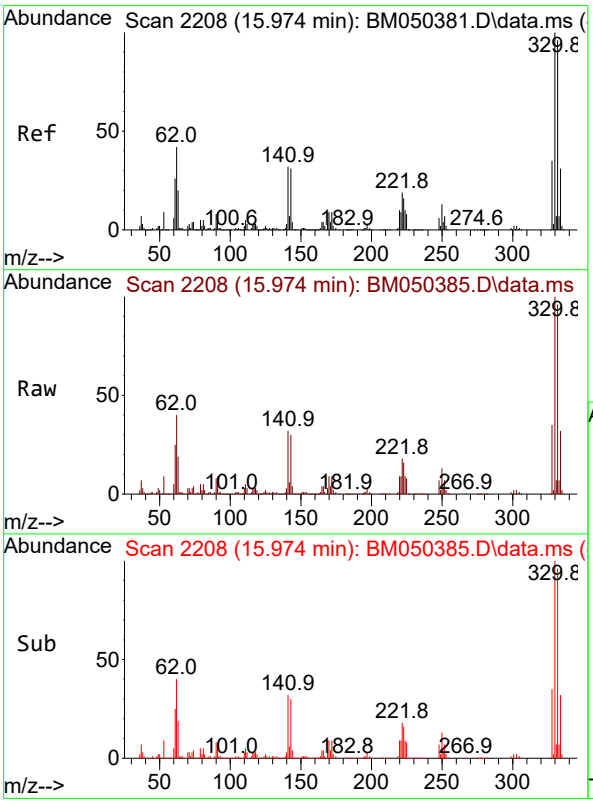
Ion	Ratio	Lower	Upper
237	100		
235	63.2	42.3	82.3
272	13.1	0.0	33.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

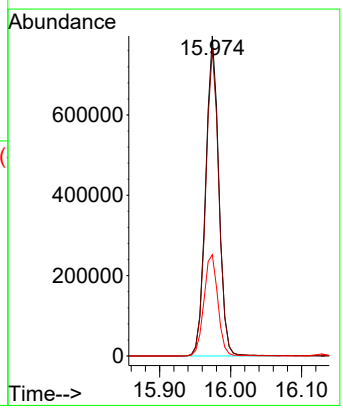
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

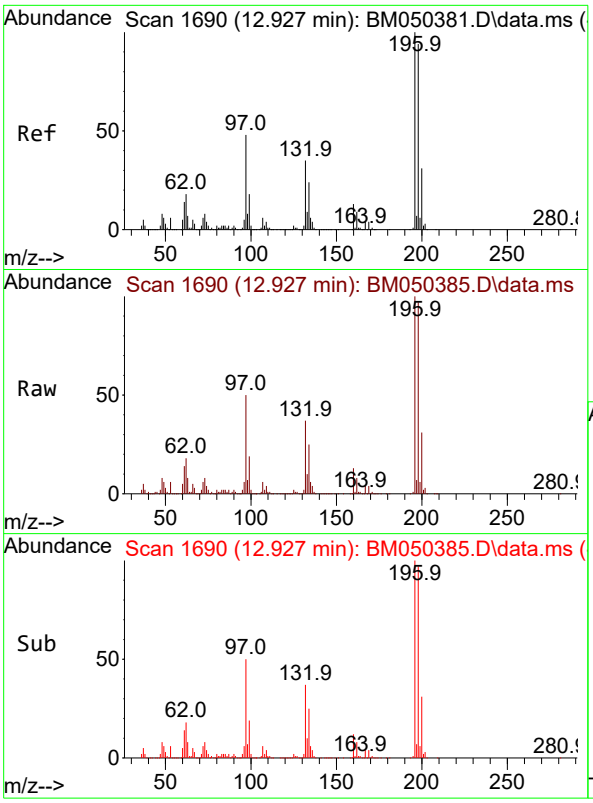


#42
2,4,6-Tribromophenol
Concen: 83.788 ng
RT: 15.974 min Scan# 2208
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:330 Resp: 1026446

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	33.5	27.4	41.0

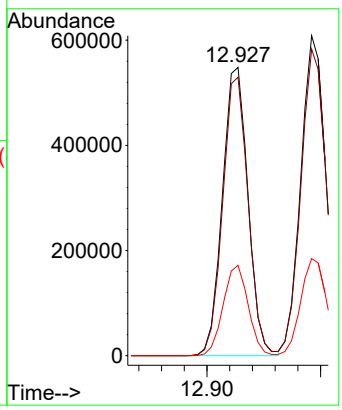




#43
2,4,6-Trichlorophenol
Concen: 43.485 ng
RT: 12.927 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:196 Resp: 85825

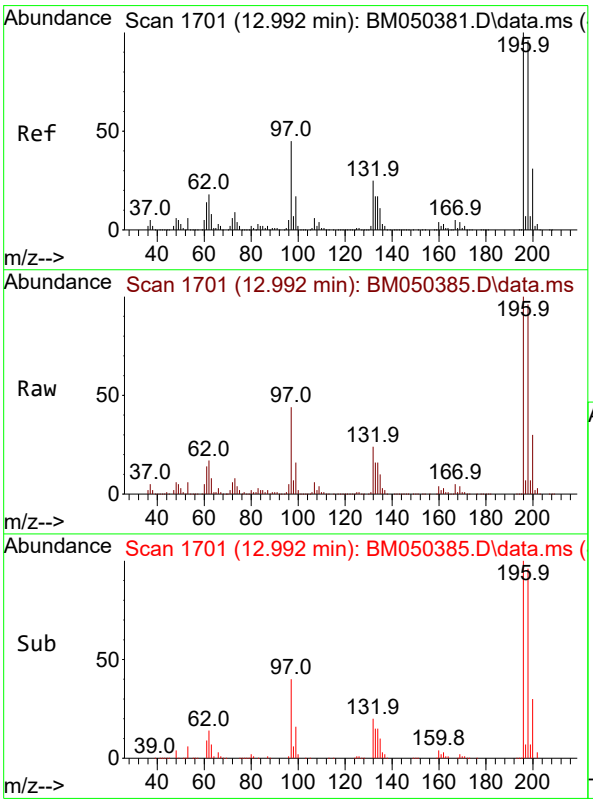
Ion	Ratio	Lower	Upper
196	100		
198	96.6	75.1	112.7
200	31.3	24.6	37.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED

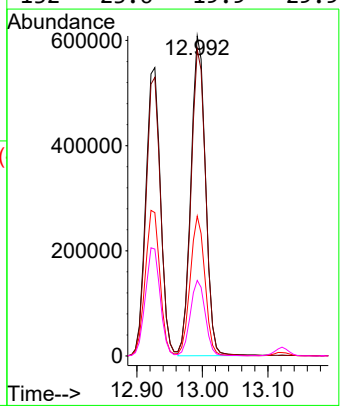
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

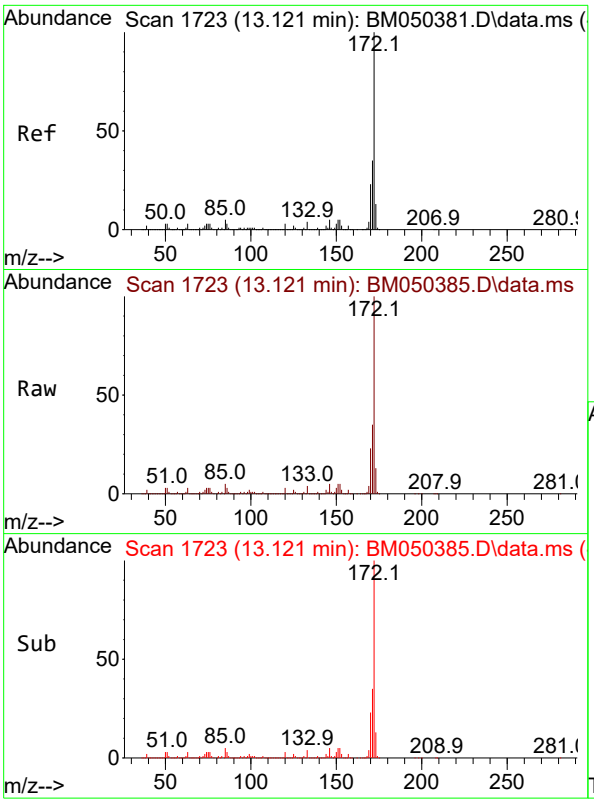


#44
2,4,5-Trichlorophenol
Concen: 43.542 ng
RT: 12.992 min Scan# 1701
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:196 Resp: 938542

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.2	115.8
97	43.7	36.2	54.4
132	23.6	19.9	29.9

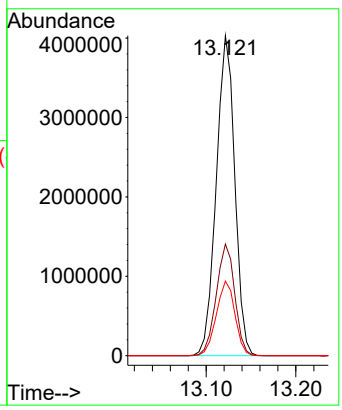




#45
2-Fluorobiphenyl
Concen: 70.689 ng
RT: 13.121 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:172 Resp: 577142

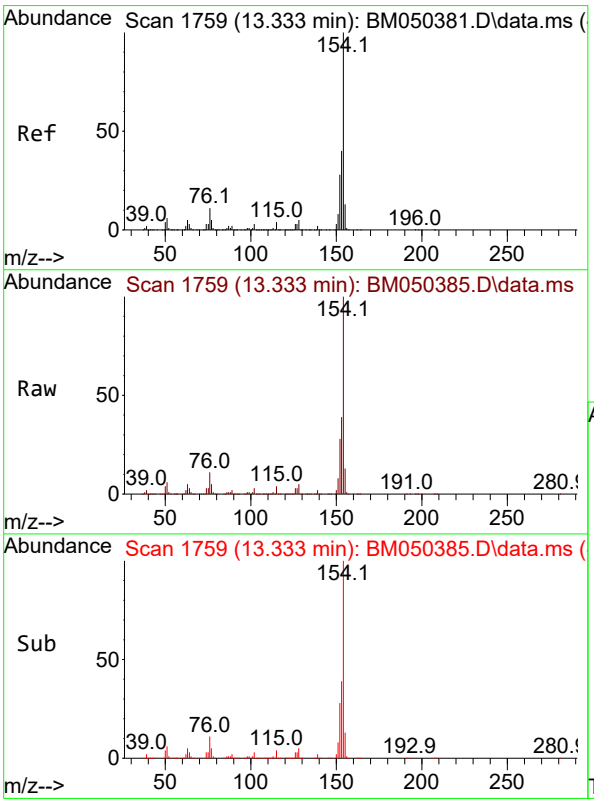
Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.7	41.5
170	23.3	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

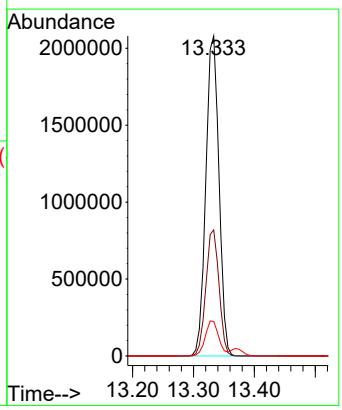
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

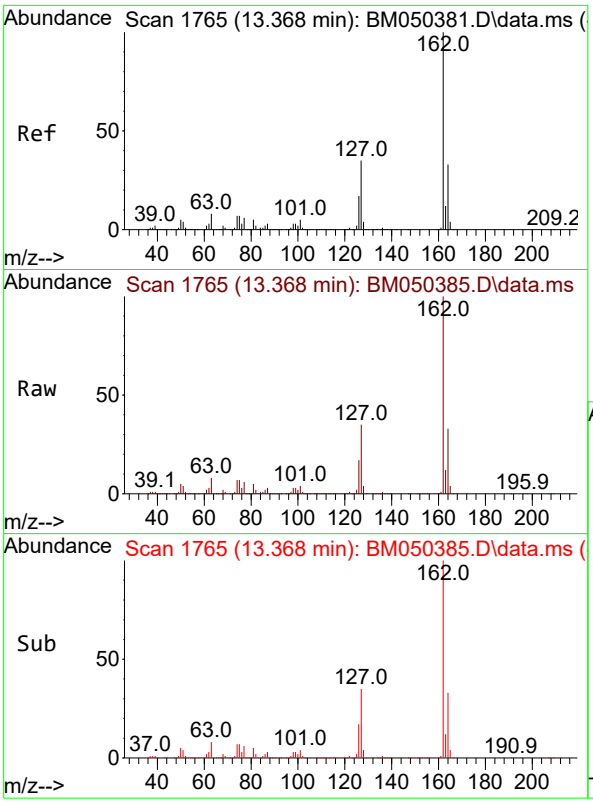


#46
1,1'-Biphenyl
Concen: 41.557 ng
RT: 13.333 min Scan# 1759
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:154 Resp: 3108770

Ion	Ratio	Lower	Upper
154	100		
153	39.4	19.7	59.7
76	10.8	0.0	30.9

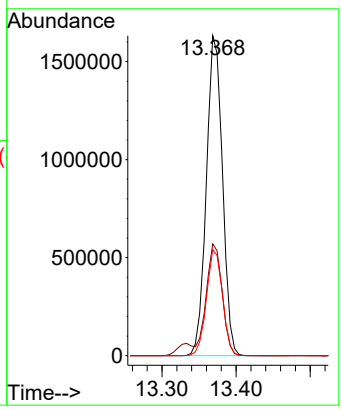




#47
2-Chloronaphthalene
Concen: 41.272 ng
RT: 13.368 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:162 Resp: 246164

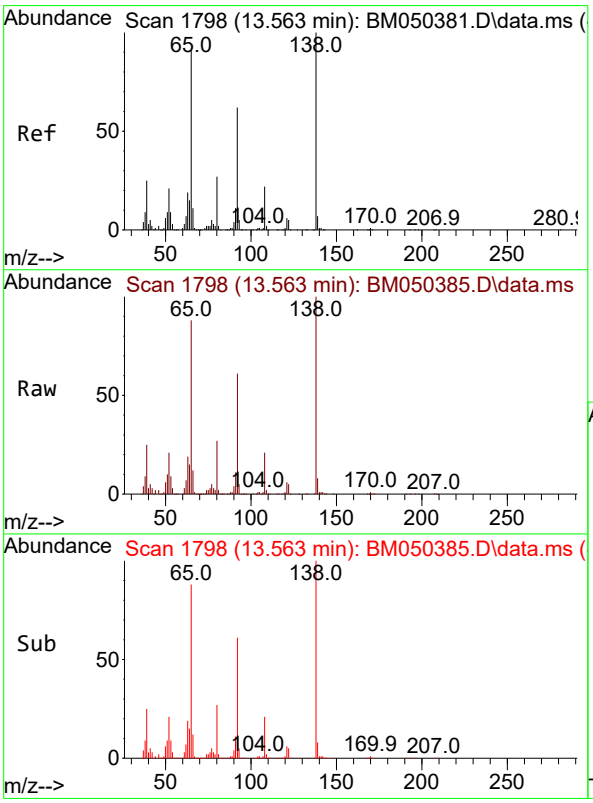
Ion	Ratio	Lower	Upper
162	100		
127	35.0	28.3	42.5
164	33.2	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

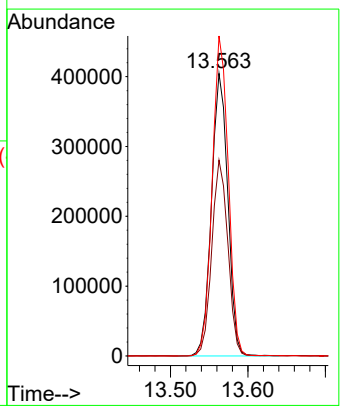
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

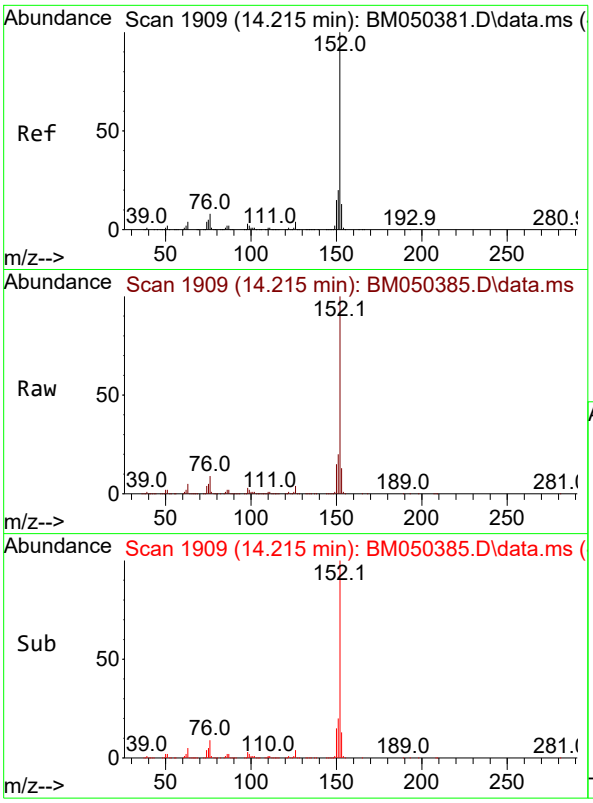


#48
2-Nitroaniline
Concen: 44.497 ng
RT: 13.563 min Scan# 1798
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 65 Resp: 592401

Ion	Ratio	Lower	Upper
65	100		
92	69.3	54.3	81.5
138	113.2	87.8	131.6

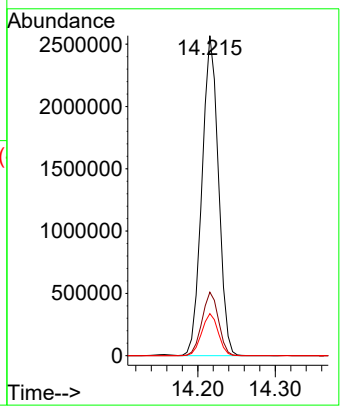




#49
Acenaphthylene
Concen: 41.972 ng
RT: 14.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:152 Resp: 378330

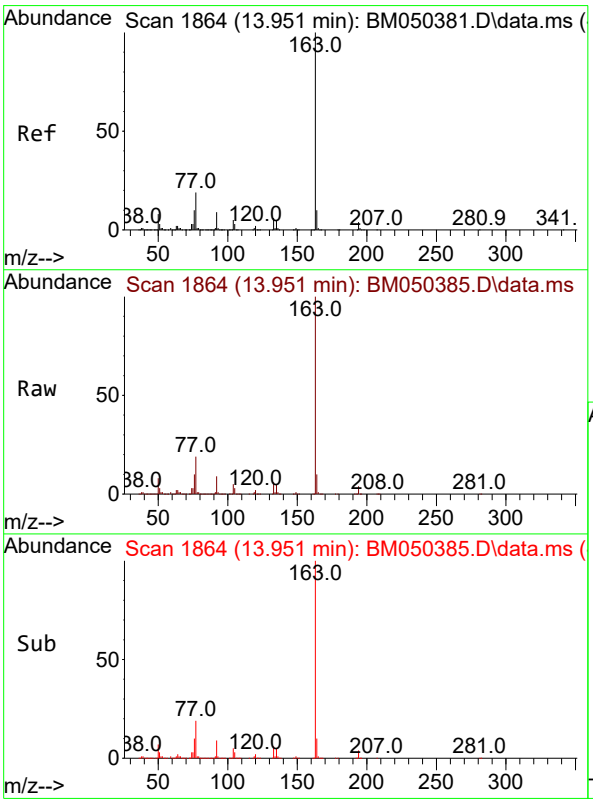
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.3	24.5
153	13.1	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations APPROVED

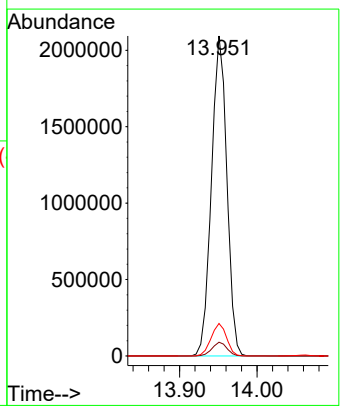
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

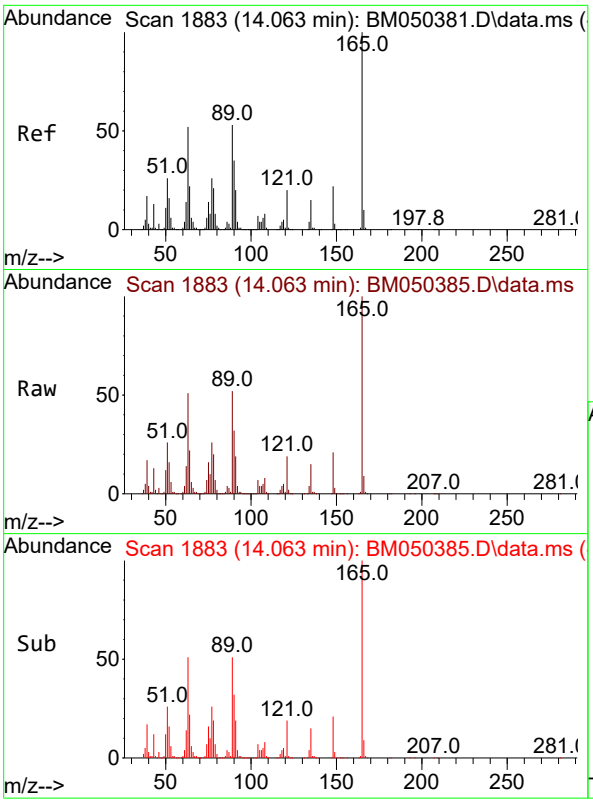


#50
Dimethylphthalate
Concen: 41.635 ng
RT: 13.951 min Scan# 1864
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:163 Resp: 2890119

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.2
164	10.1	8.2	12.2

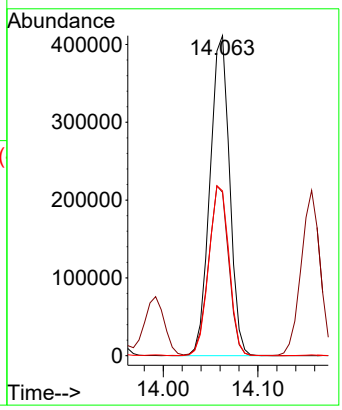




#51
2,6-Dinitrotoluene
Concen: 44.405 ng
RT: 14.063 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:165 Resp: 59184

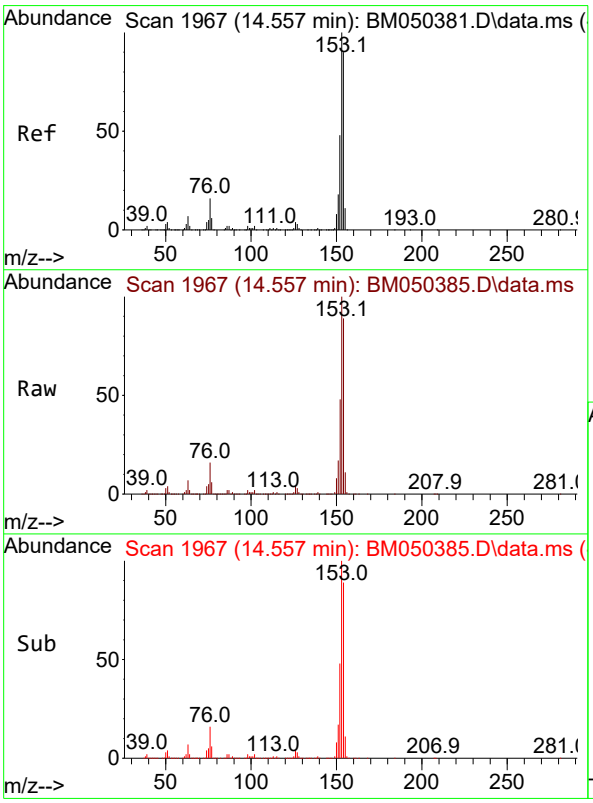
Ion	Ratio	Lower	Upper
165	100		
63	51.1	42.4	63.6
89	51.5	42.2	63.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

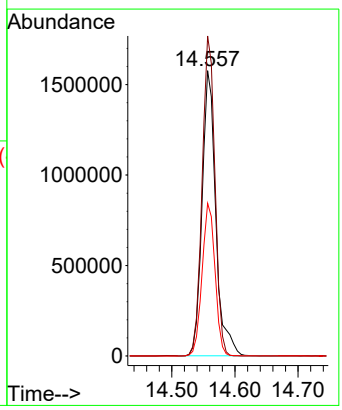
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

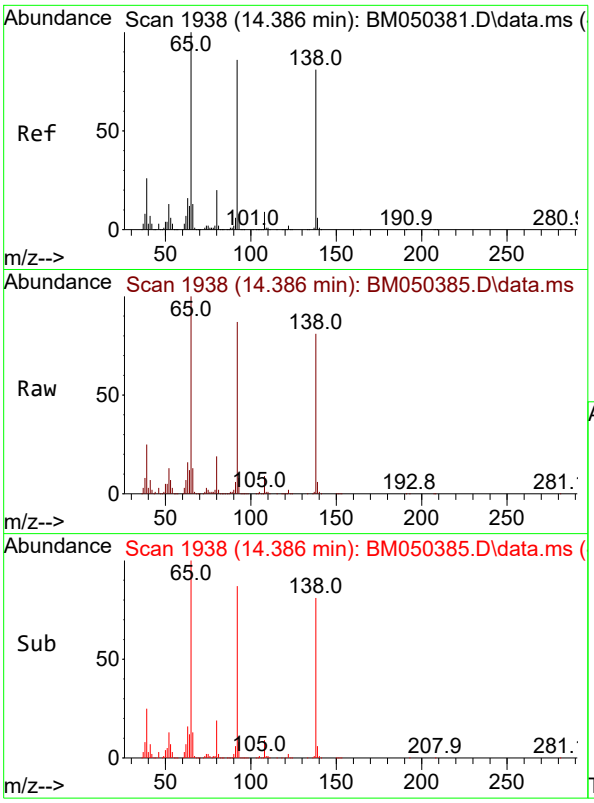


#52
Acenaphthene
Concen: 41.562 ng
RT: 14.557 min Scan# 1967
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:154 Resp: 2381763

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.2	133.8
152	53.5	42.6	64.0

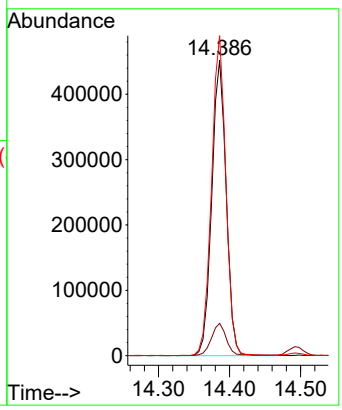




#53
3-Nitroaniline
Concen: 44.871 ng
RT: 14.386 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:138 Resp: 63601

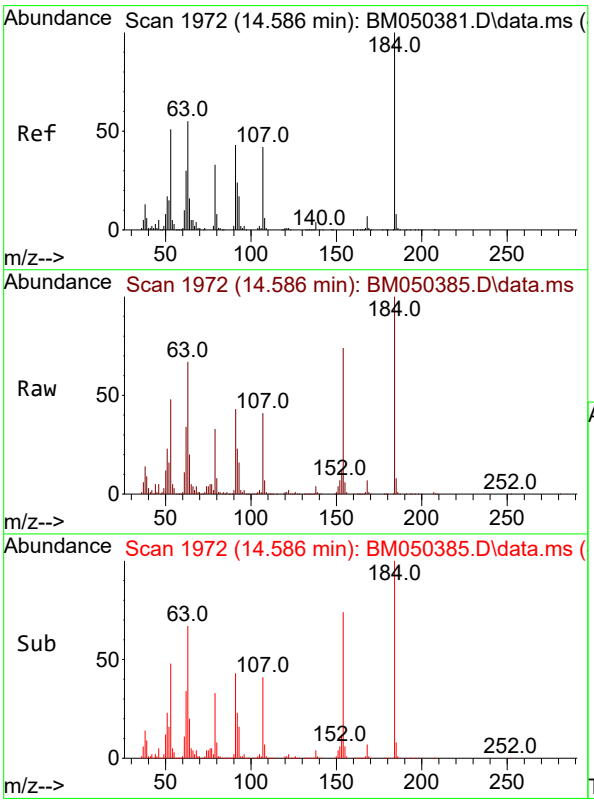
Ion	Ratio	Lower	Upper
138	100		
108	11.0	8.8	13.2
92	108.2	85.0	127.6



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

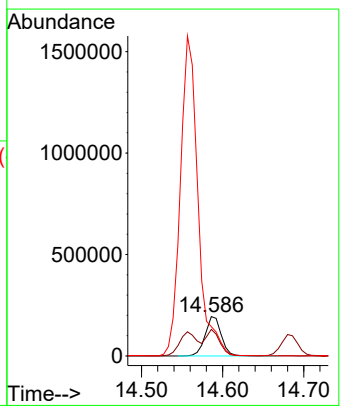
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

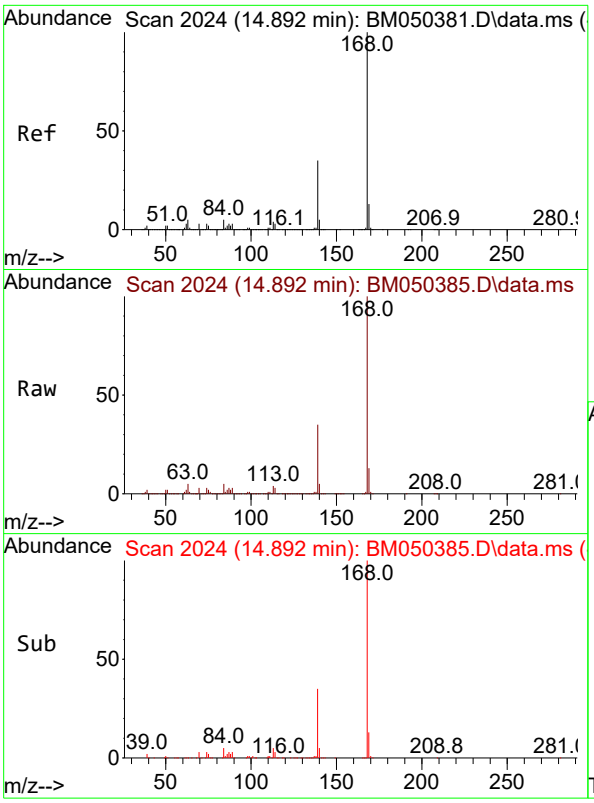


#54
2,4-Dinitrophenol
Concen: 39.797 ng
RT: 14.586 min Scan# 1972
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:184 Resp: 266947

Ion	Ratio	Lower	Upper
184	100		
63	67.3	53.4	80.0
154	74.3	61.6	92.4

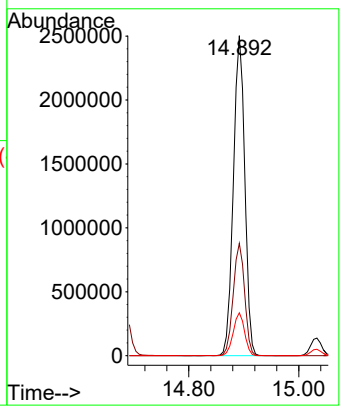




#55
Dibenzofuran
Concen: 40.877 ng
RT: 14.892 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:168 Resp: 360941

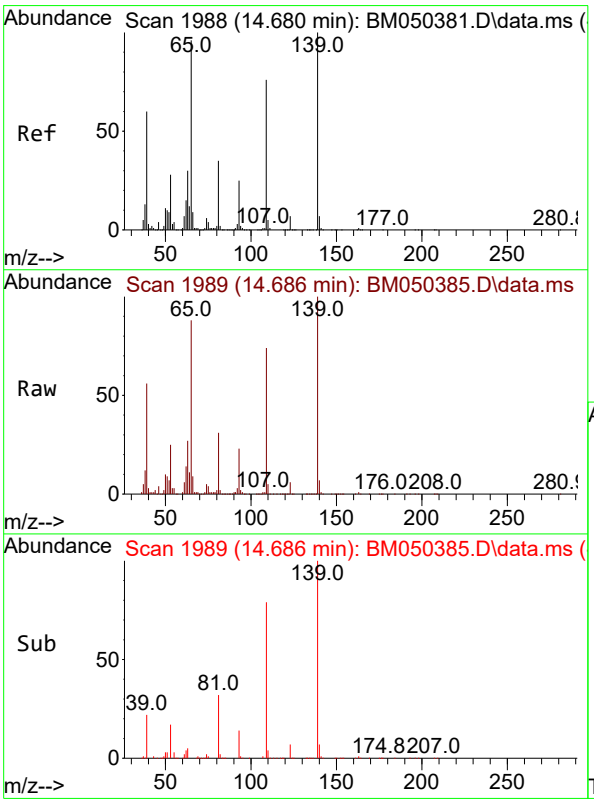
Ion	Ratio	Lower	Upper
168	100		
139	35.1	27.7	41.5
169	13.4	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

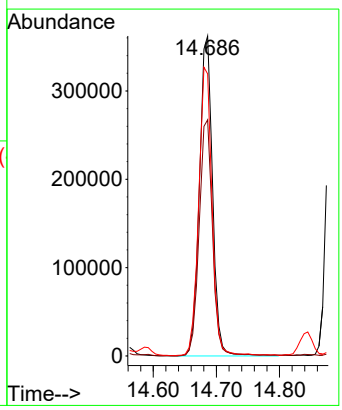
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

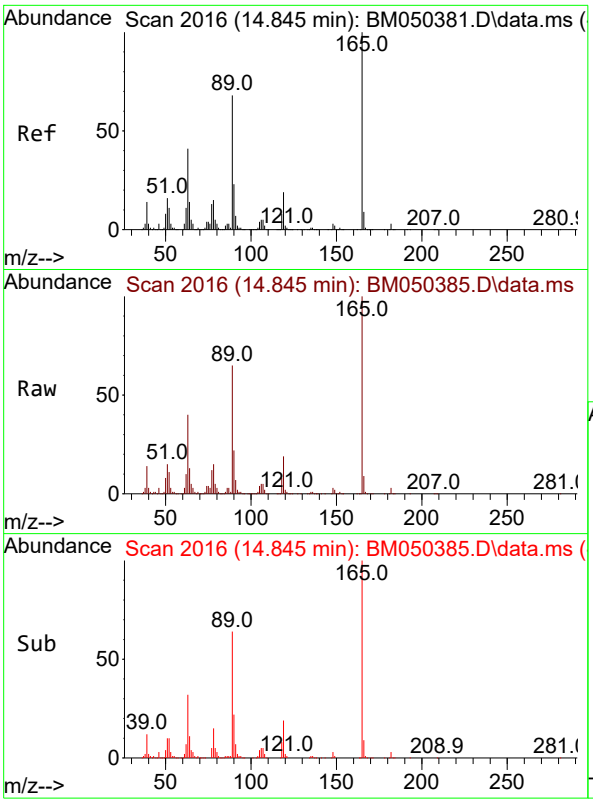


#56
4-Nitrophenol
Concen: 42.822 ng
RT: 14.686 min Scan# 1989
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:139 Resp: 521977

Ion	Ratio	Lower	Upper
139	100		
109	73.8	56.5	96.5
65	88.1	76.4	116.4

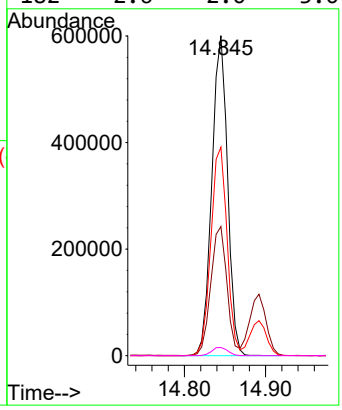




#57
2,4-Dinitrotoluene
Concen: 40.905 ng
RT: 14.845 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:165 Resp: 80763

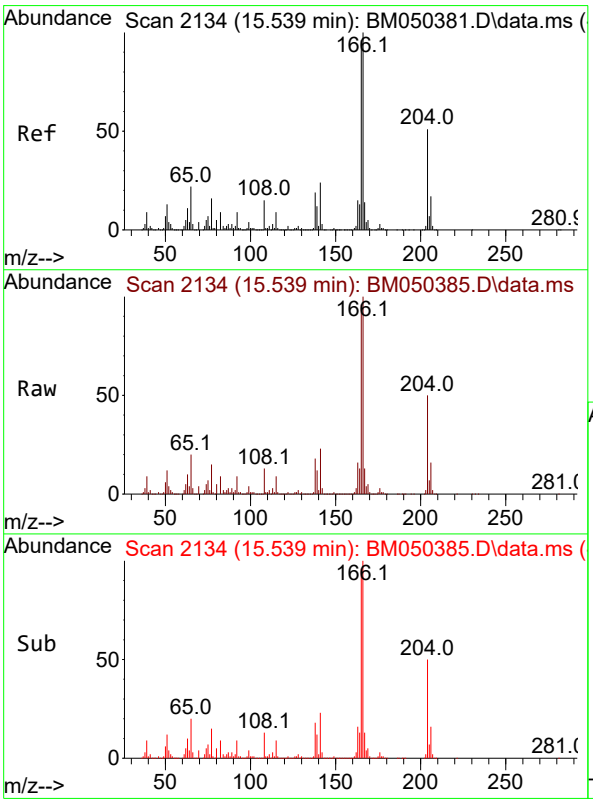
Ion	Ratio	Lower	Upper
165	100		
63	40.3	32.5	48.7
89	65.1	54.0	81.0
182	2.6	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

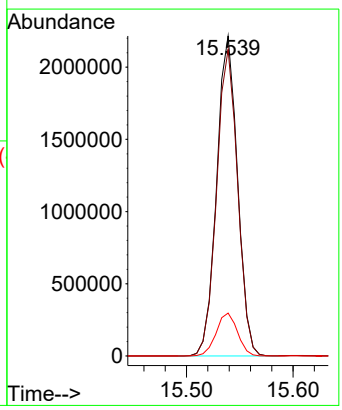
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

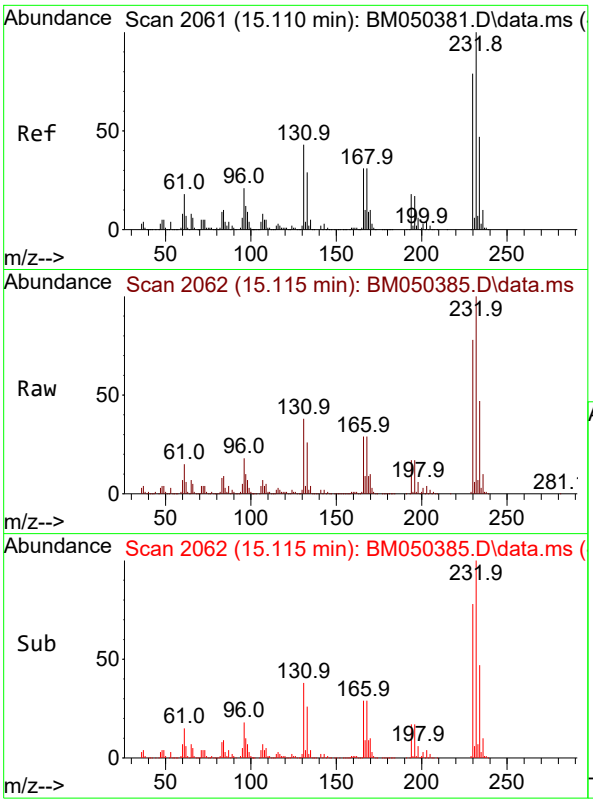


#58
Fluorene
Concen: 41.425 ng
RT: 15.539 min Scan# 2134
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:166 Resp: 3012801

Ion	Ratio	Lower	Upper
166	100		
165	95.8	77.0	115.6
167	13.4	10.9	16.3

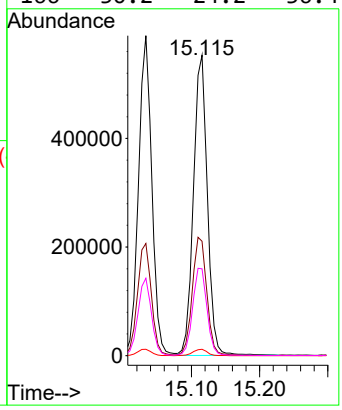




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.229 ng
RT: 15.115 min Scan# 2
Delta R.T. 0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:232 Resp: 78437

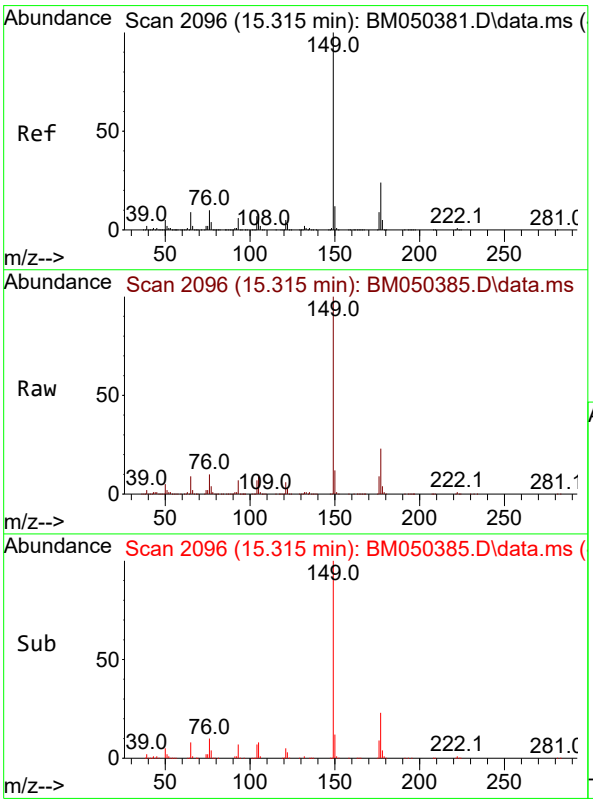
Ion	Ratio	Lower	Upper
232	100		
131	41.1	33.4	50.0
130	2.2	1.8	2.6
166	30.2	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

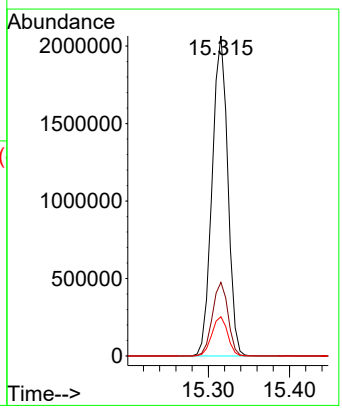
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

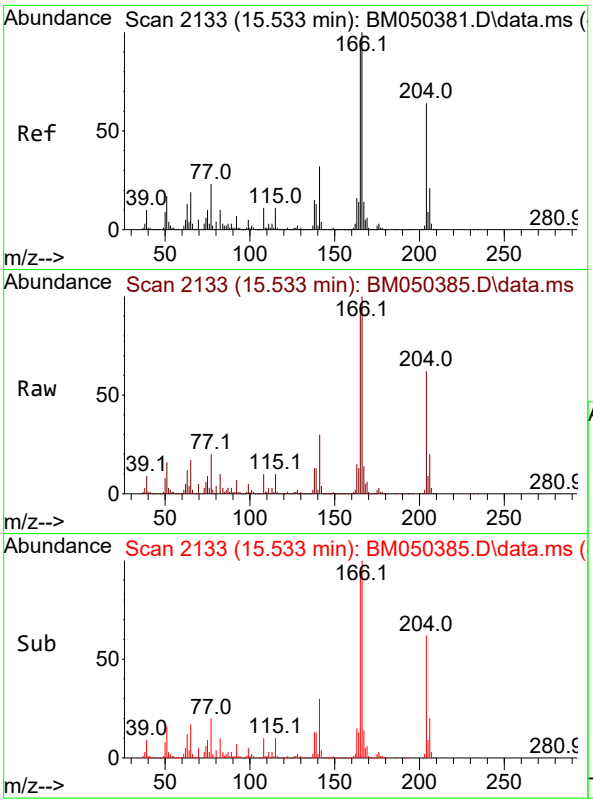


#60
Diethylphthalate
Concen: 41.609 ng
RT: 15.315 min Scan# 2096
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:149 Resp: 2759041

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.8	28.2
150	12.2	9.8	14.8

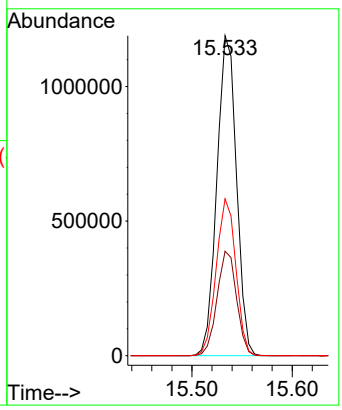




#61
4-Chlorophenyl-phenylether
Concen: 42.288 ng
RT: 15.533 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:204 Resp: 160820

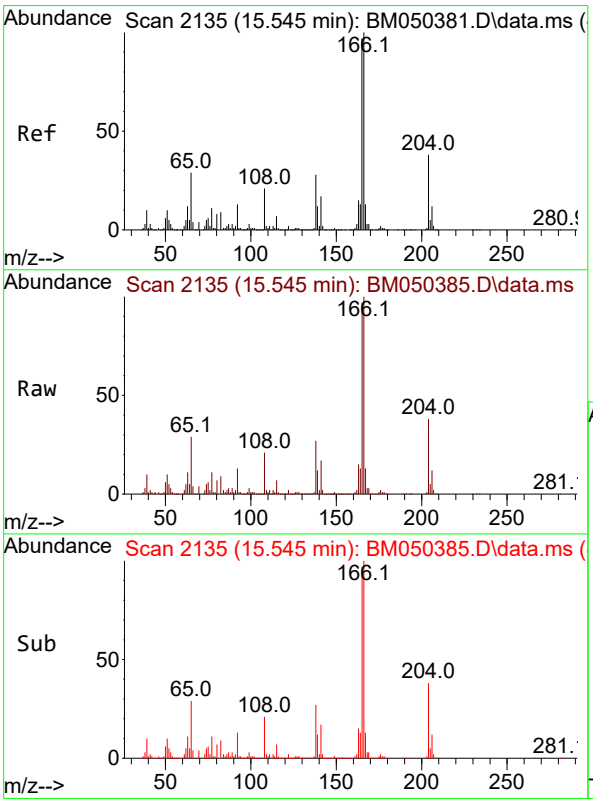
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.6	39.8
141	49.0	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

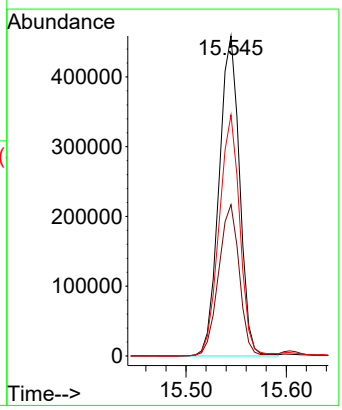
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

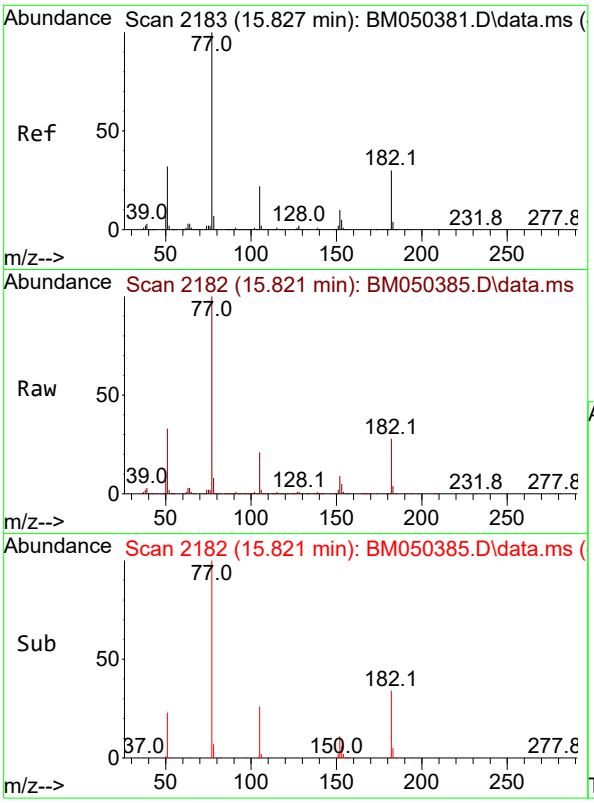


#62
4-Nitroaniline
Concen: 40.288 ng
RT: 15.545 min Scan# 2135
Delta R.T. -0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:138 Resp: 649355

Ion	Ratio	Lower	Upper
138	100		
92	47.3	24.5	64.5
108	75.4	52.5	92.5

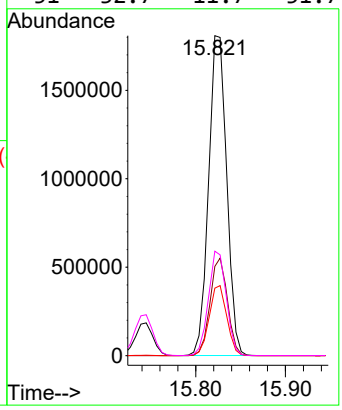




#63
Azobenzene
Concen: 41.531 ng
RT: 15.821 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion: 77 Resp: 252872

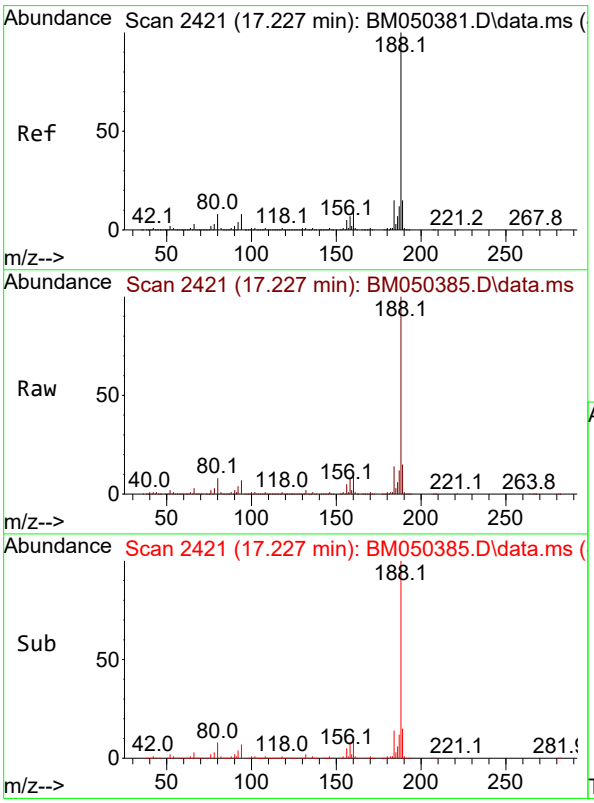
Ion	Ratio	Lower	Upper
77	100		
182	27.9	10.0	50.0
105	21.1	2.0	42.0
51	32.7	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

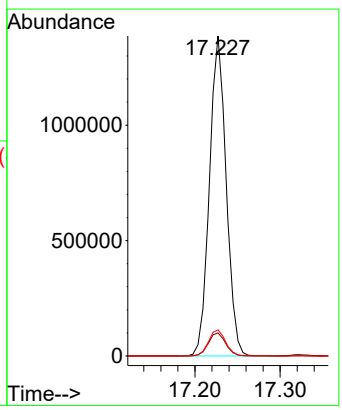
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

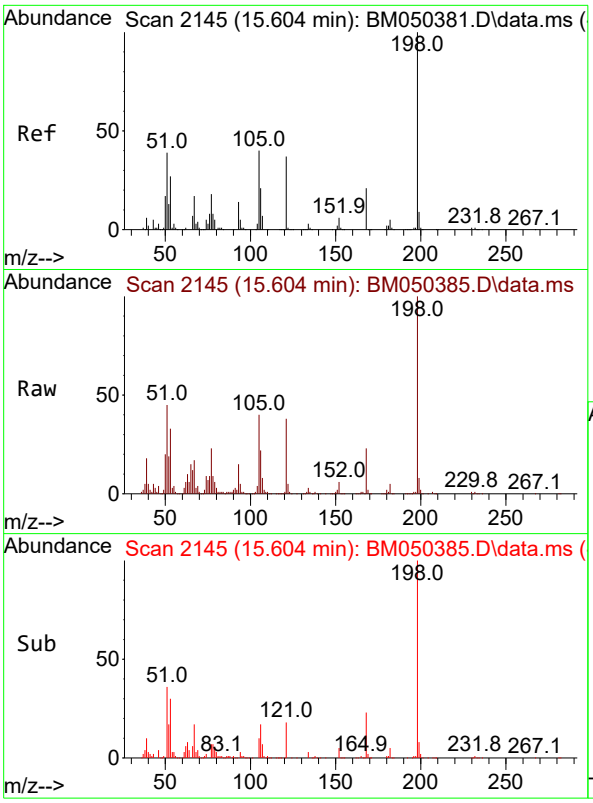


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2421
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:188 Resp: 1898481

Ion	Ratio	Lower	Upper
188	100		
94	7.2	6.0	9.0
80	8.2	6.5	9.7

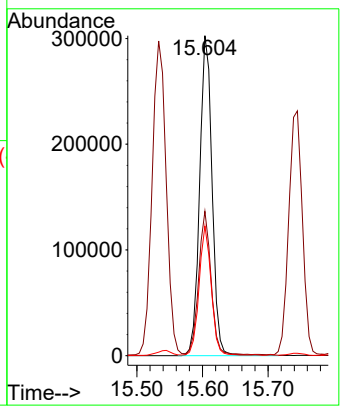




#65
4,6-Dinitro-2-methylphenol
Concen: 40.334 ng
RT: 15.604 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:198 Resp: 399918

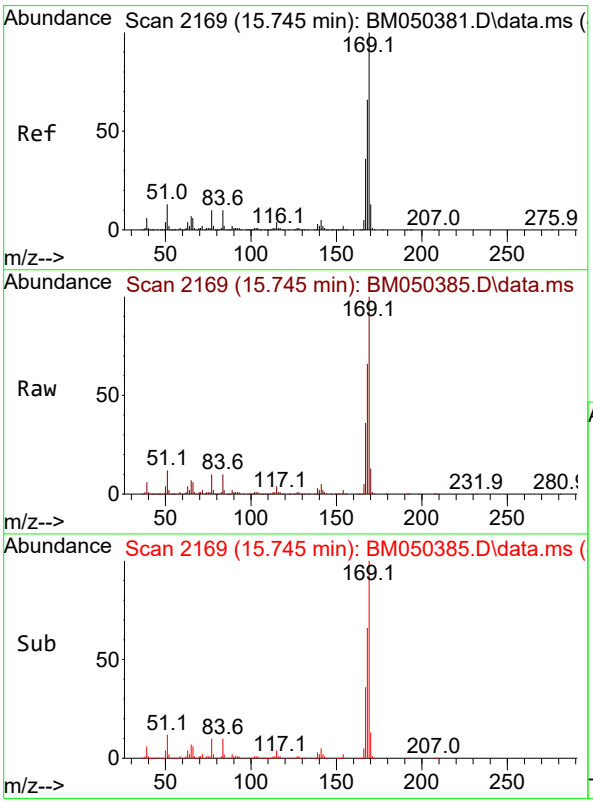
Ion	Ratio	Lower	Upper
198	100		
51	45.1	26.6	66.6
105	40.5	20.9	60.9



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

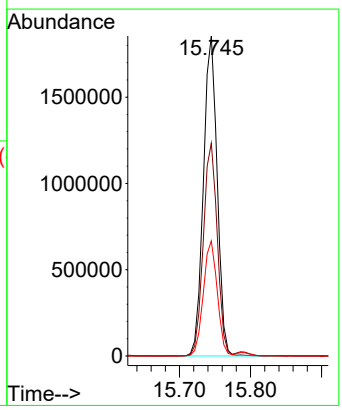
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

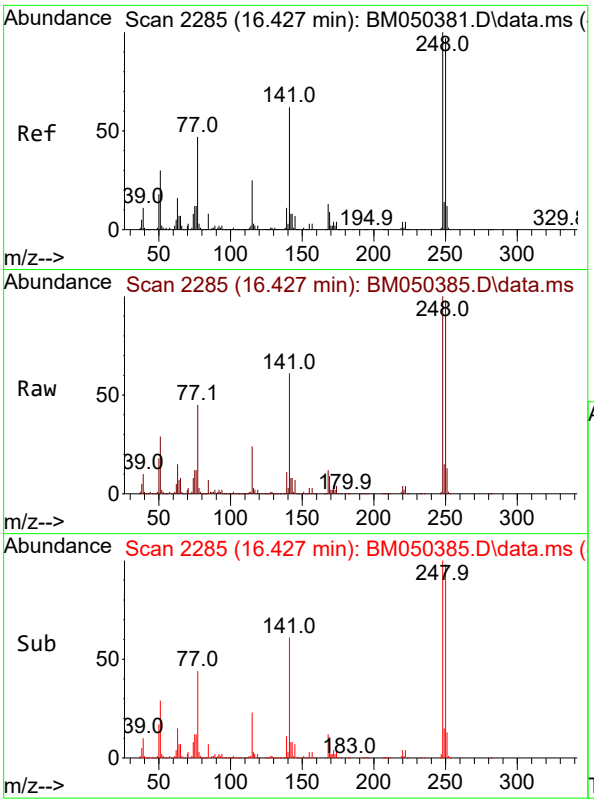


#66
n-Nitrosodiphenylamine
Concen: 42.198 ng
RT: 15.745 min Scan# 2169
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:169 Resp: 2506809

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	36.0	28.7	43.1

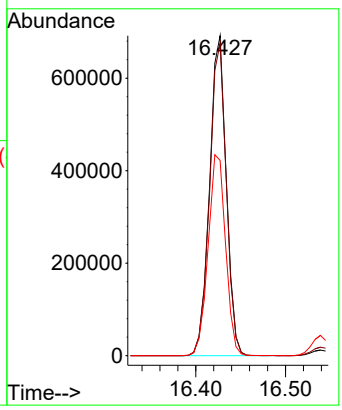




#67
4-Bromophenyl-phenylether
Concen: 42.755 ng
RT: 16.427 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:248 Resp: 89431

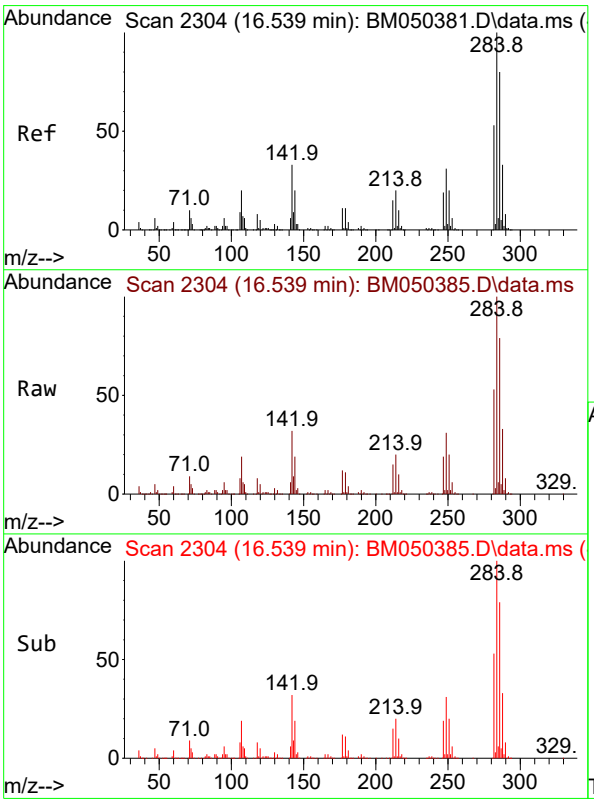
Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.9	116.9
141	61.0	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

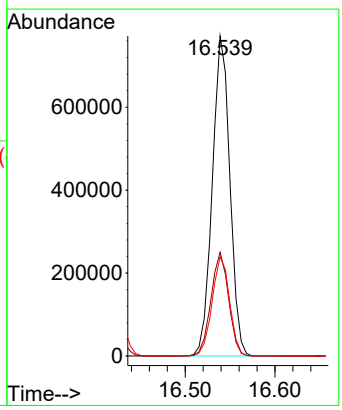
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

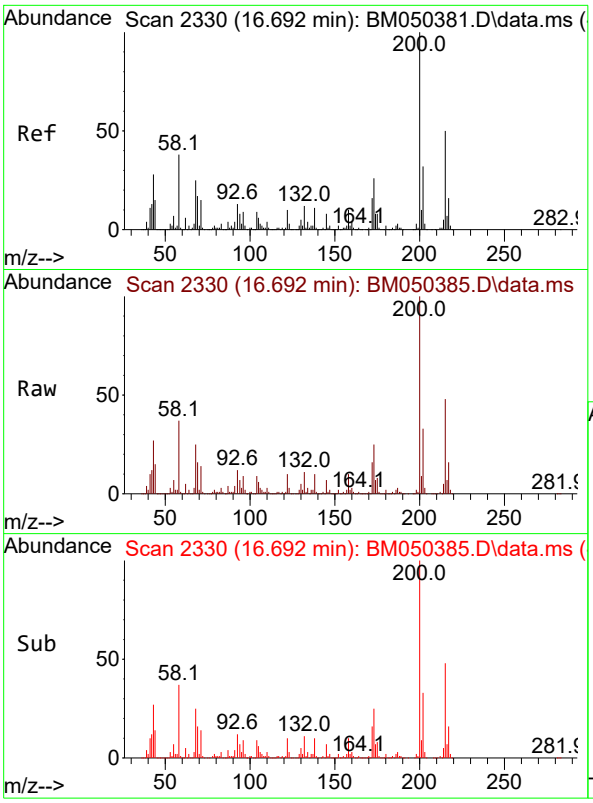


#68
Hexachlorobenzene
Concen: 42.380 ng
RT: 16.539 min Scan# 2304
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:284 Resp: 1046980

Ion	Ratio	Lower	Upper
284	100		
142	32.4	26.8	40.2
249	31.0	24.5	36.7

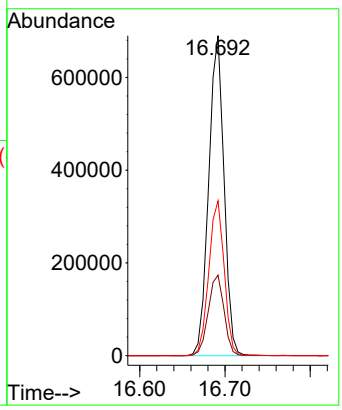




#69
Atrazine
Concen: 44.212 ng
RT: 16.692 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:200 Resp: 86245

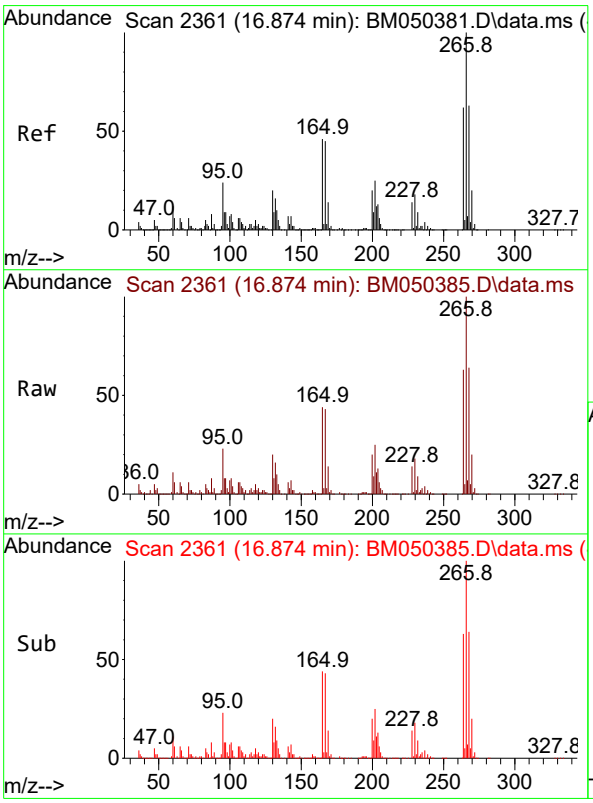
Ion	Ratio	Lower	Upper
200	100		
173	25.2	5.6	45.6
215	48.4	29.6	69.6



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

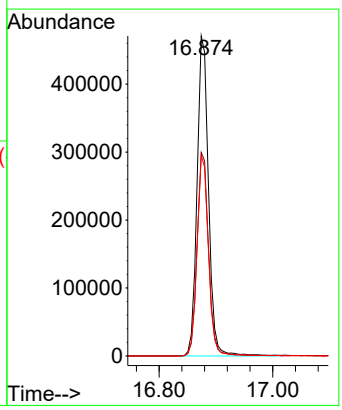
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

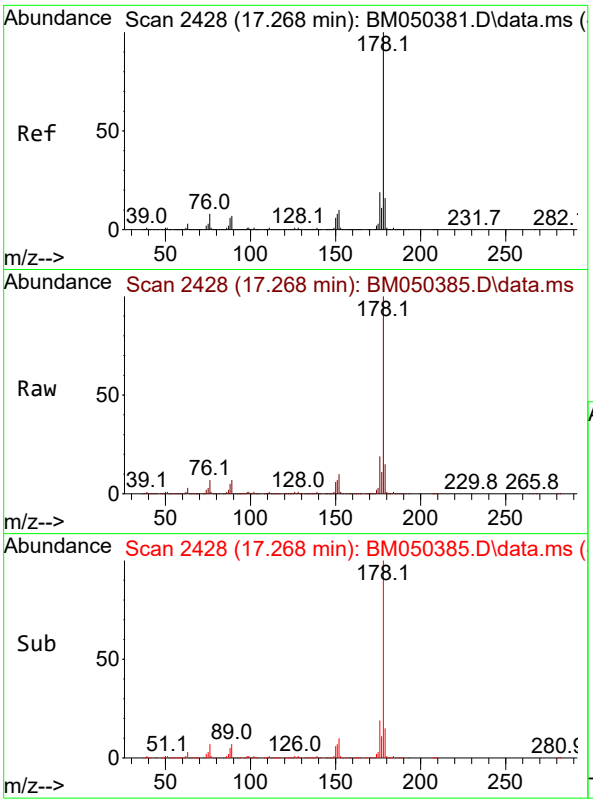


#70
Pentachlorophenol
Concen: 43.075 ng
RT: 16.874 min Scan# 2361
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:266 Resp: 662449

Ion	Ratio	Lower	Upper
266	100		
268	63.6	50.5	75.7
264	62.6	49.9	74.9

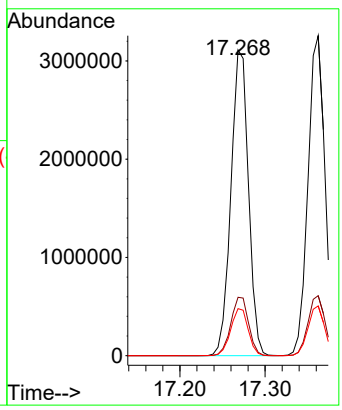




#71
Phenanthrene
Concen: 41.373 ng
RT: 17.268 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:178 Resp: 444461

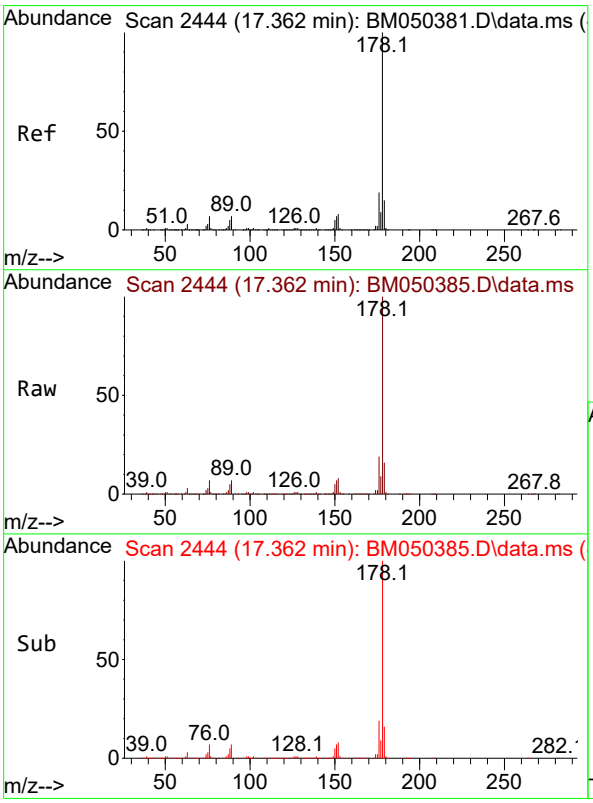
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

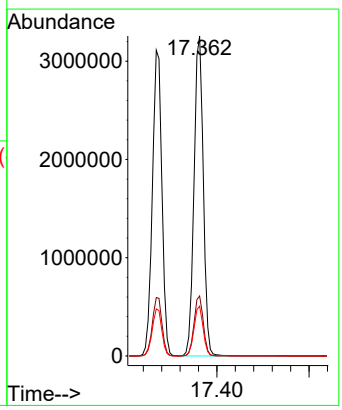
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

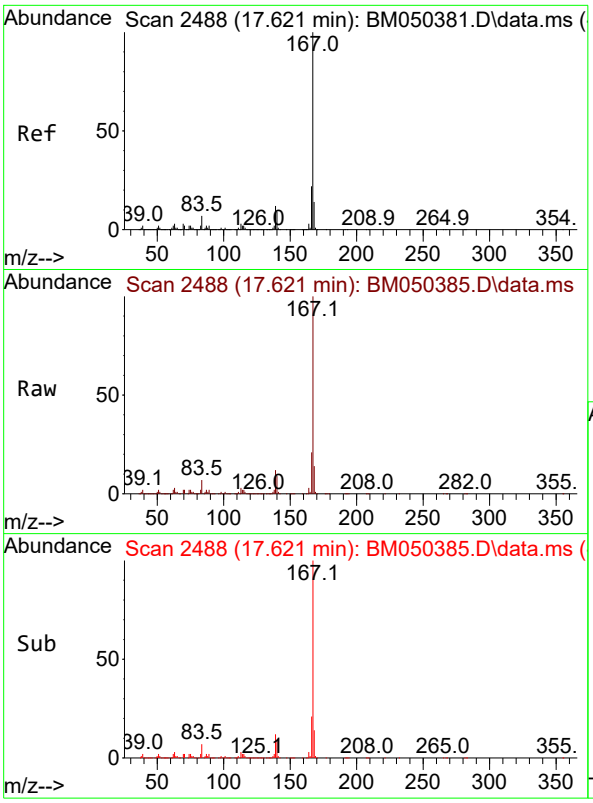


#72
Anthracene
Concen: 42.316 ng
RT: 17.362 min Scan# 2444
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:178 Resp: 4525011

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.9	22.3
179	15.5	12.2	18.4

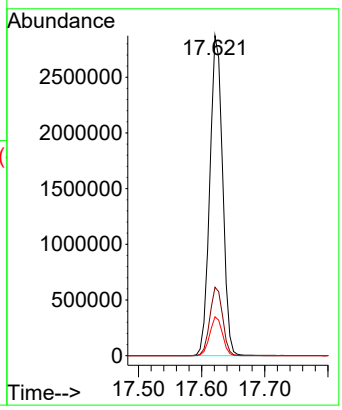




#73
Carbazole
Concen: 41.806 ng
RT: 17.621 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:167 Resp: 404497

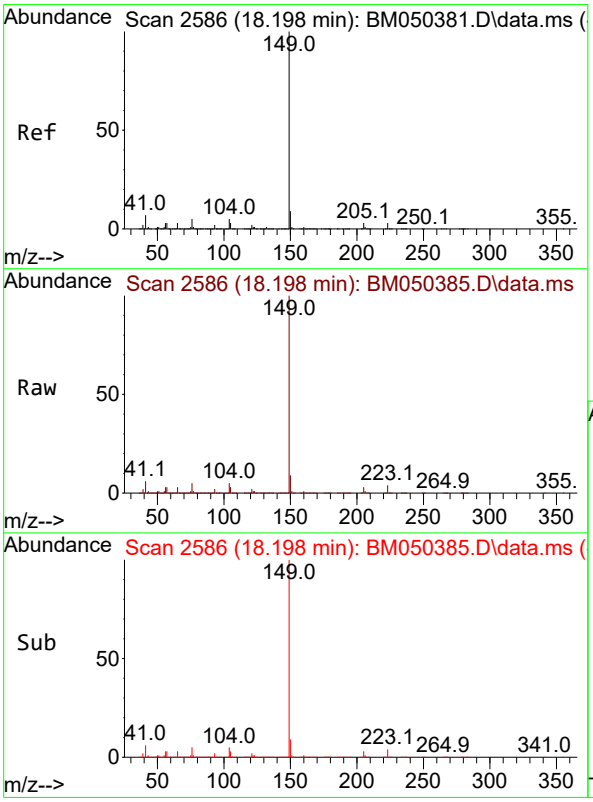
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.2	25.8
139	12.2	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

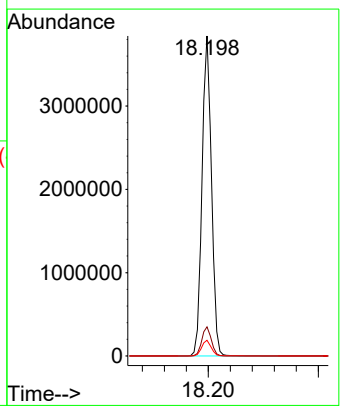
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

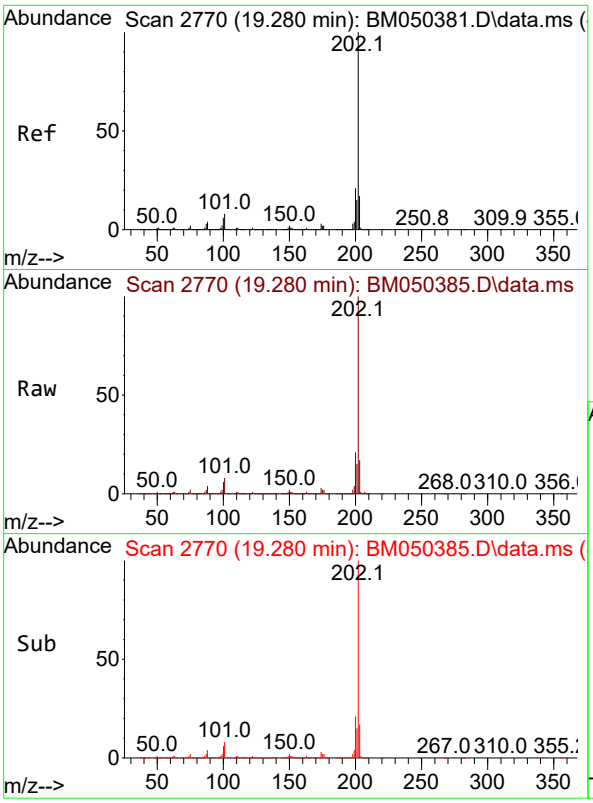


#74
Di-n-butylphthalate
Concen: 43.247 ng
RT: 18.198 min Scan# 2586
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:149 Resp: 4579991

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.9	3.9	5.9

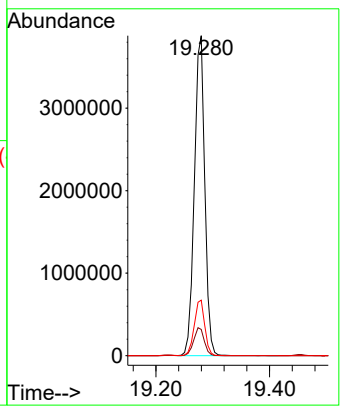




#75
Fluoranthene
Concen: 42.474 ng
RT: 19.280 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:202 Resp: 496036

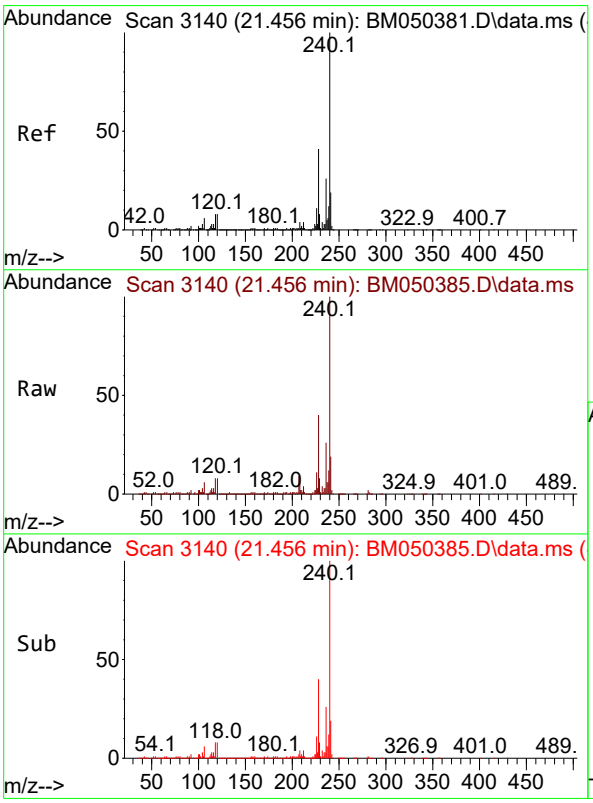
Ion	Ratio	Lower	Upper
202	100		
101	8.2	0.0	28.3
203	17.4	0.0	37.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

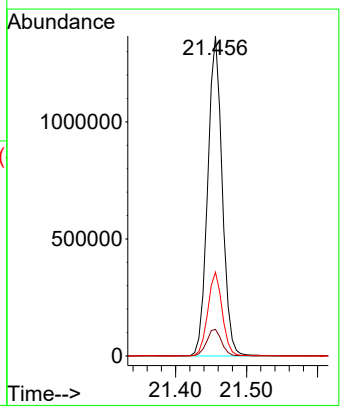
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

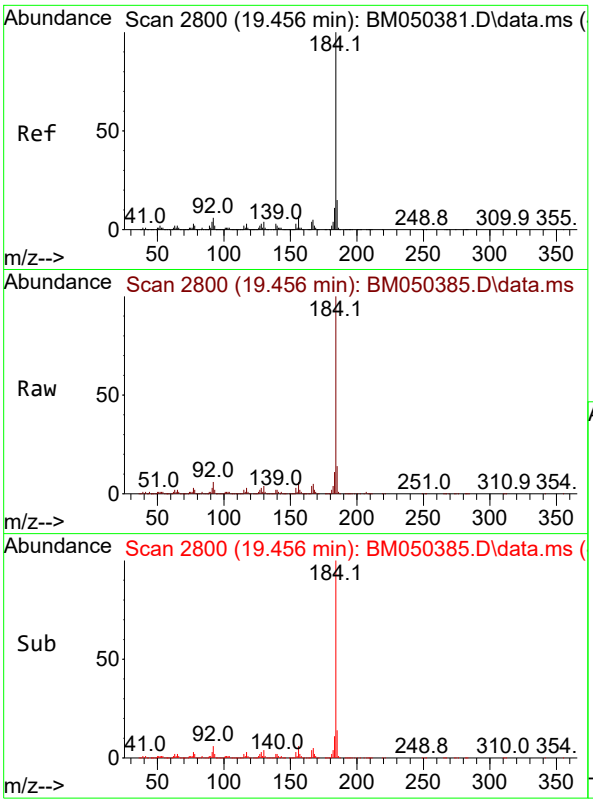


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.456 min Scan# 3140
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:240 Resp: 1940016

Ion	Ratio	Lower	Upper
240	100		
120	8.3	6.7	10.1
236	26.2	20.7	31.1

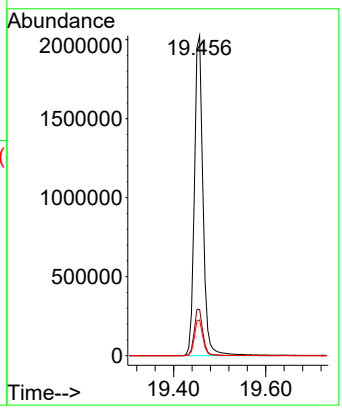




#77
Benzidine
Concen: 53.050 ng
RT: 19.456 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:184 Resp: 262505

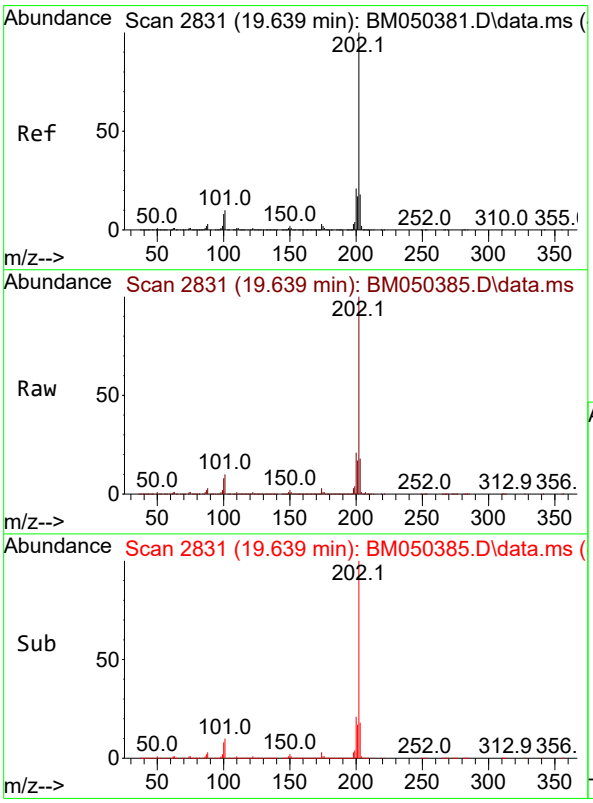
Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.7	17.5
183	11.2	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

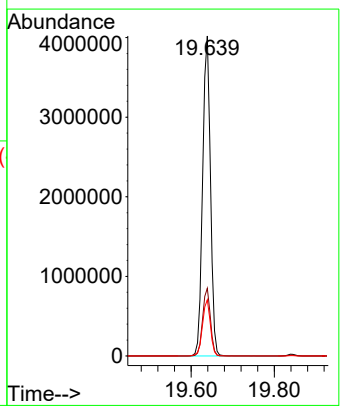
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

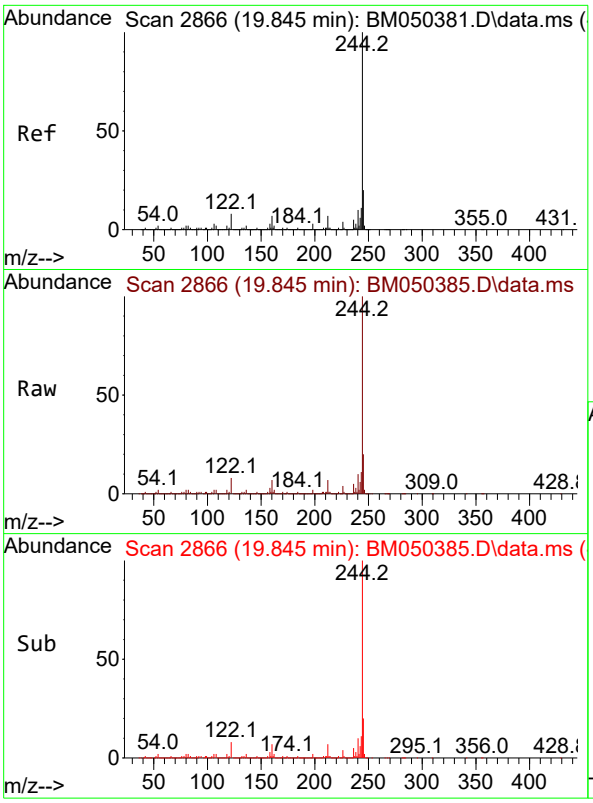


#78
Pyrene
Concen: 42.257 ng
RT: 19.639 min Scan# 2831
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:202 Resp: 5250364

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.5	14.1	21.1

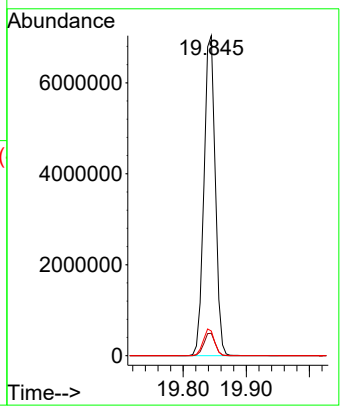




#79
Terphenyl-d14
Concen: 79.145 ng
RT: 19.845 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:244 Resp: 872673

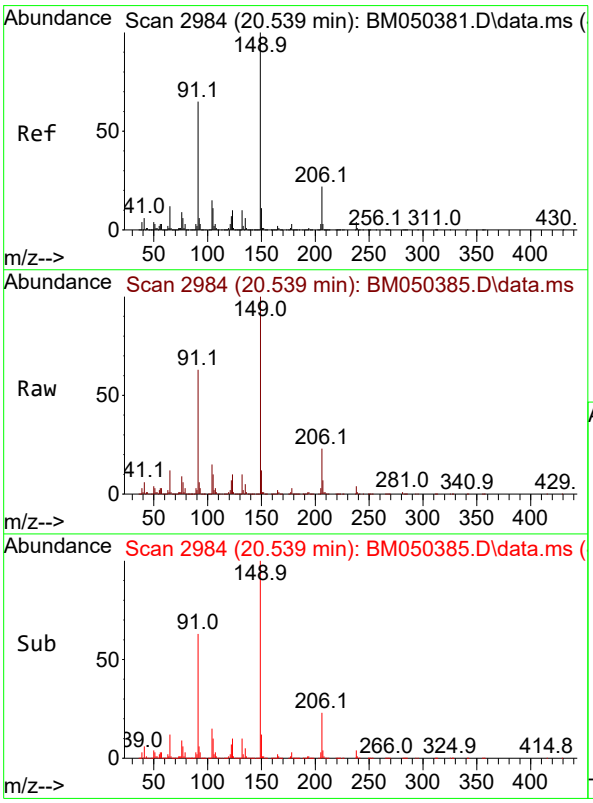
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	7.7	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

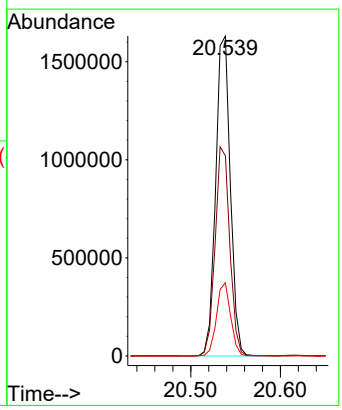
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

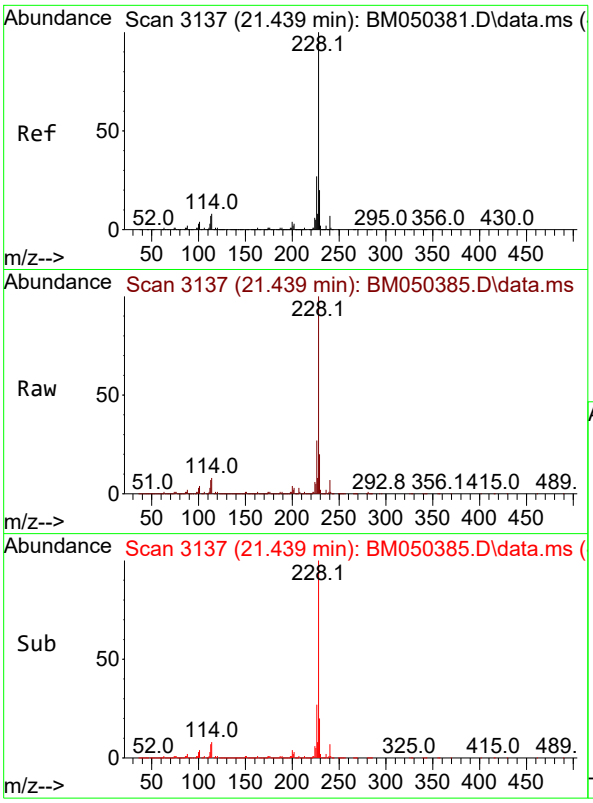


#80
Butylbenzylphthalate
Concen: 45.139 ng
RT: 20.539 min Scan# 2984
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:149 Resp: 1849278

Ion	Ratio	Lower	Upper
149	100		
91	62.6	51.6	77.4
206	22.9	17.8	26.8





#81
Benzo(a)anthracene
Concen: 42.109 ng
RT: 21.439 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

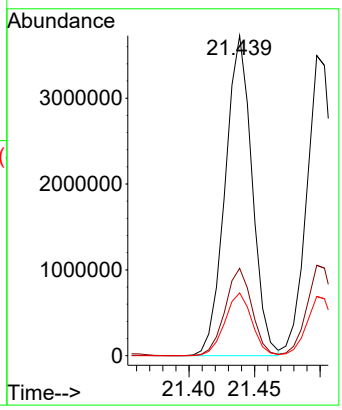
Tgt Ion:228 Resp: 532277

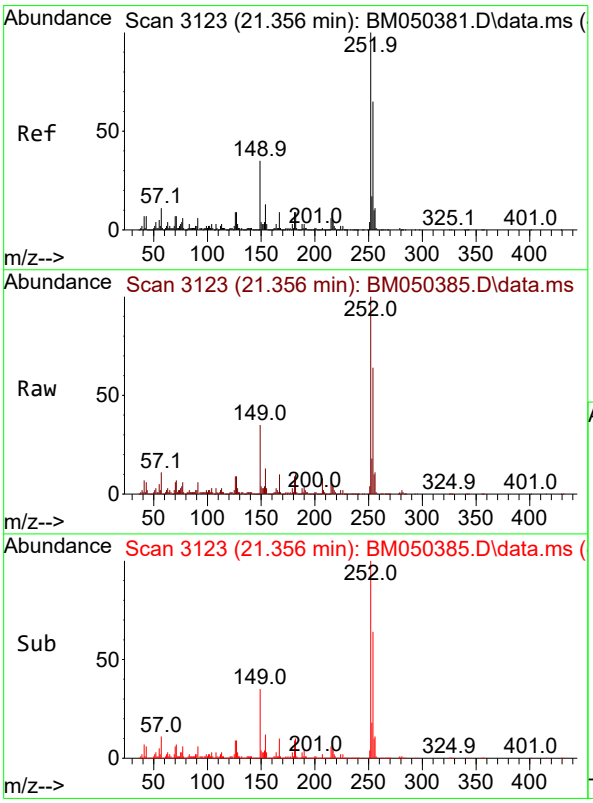
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.8	32.8
229	19.6	16.0	24.0

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

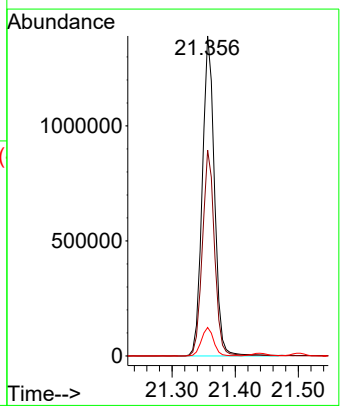


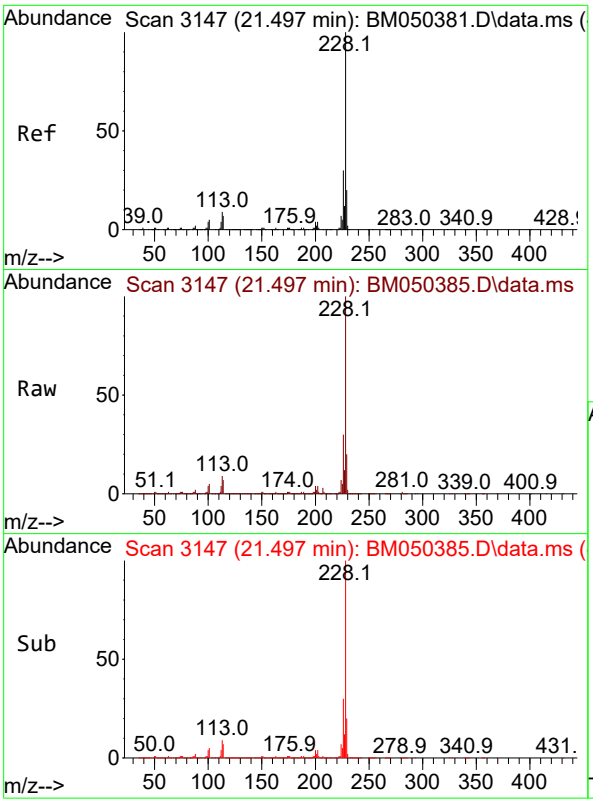


#82
3,3'-Dichlorobenzidine
Concen: 43.733 ng
RT: 21.356 min Scan# 3123
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:252 Resp: 1864267

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.7	77.5
126	8.9	7.3	10.9

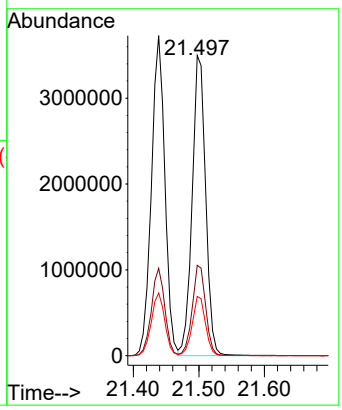




#83
Chrysene
Concen: 41.924 ng
RT: 21.497 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:228 Resp: 499850

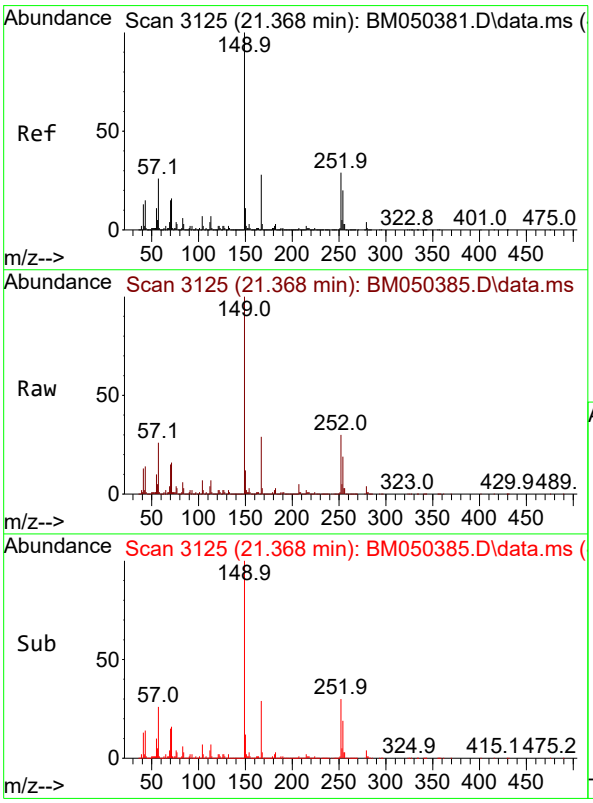
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.2	36.4
229	19.8	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

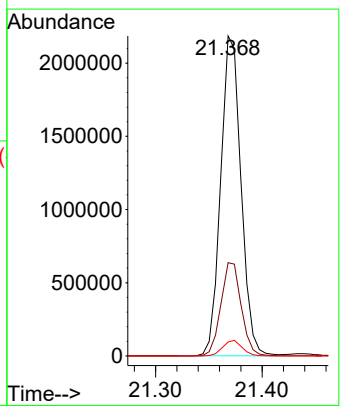
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

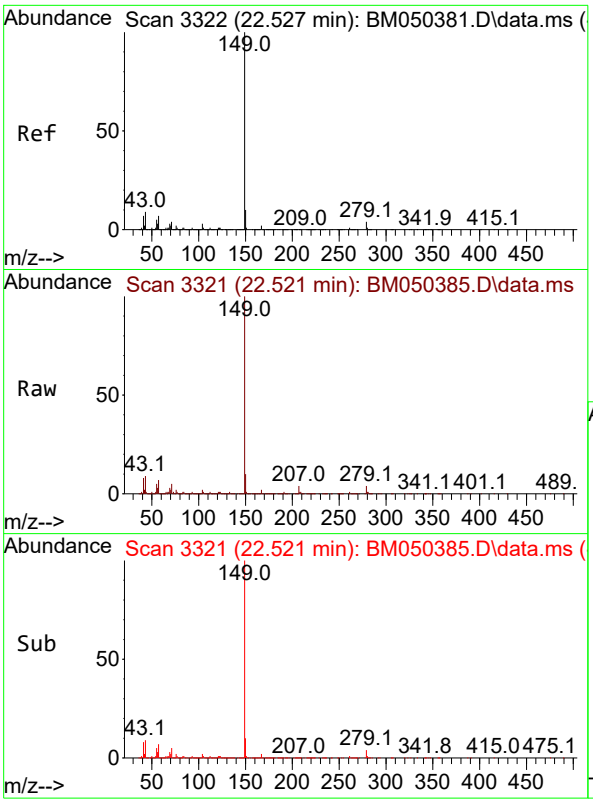


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.481 ng
RT: 21.368 min Scan# 3125
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:149 Resp: 2892877

Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.7	34.1
279	4.4	3.5	5.3

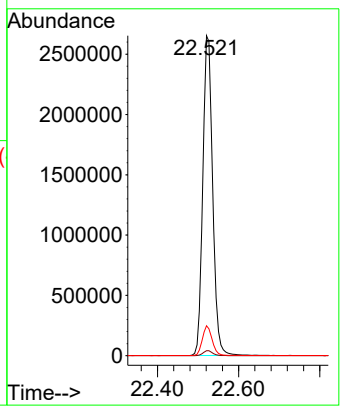




#85
Di-n-octyl phthalate
Concen: 43.760 ng
RT: 22.521 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:149 Resp: 445744

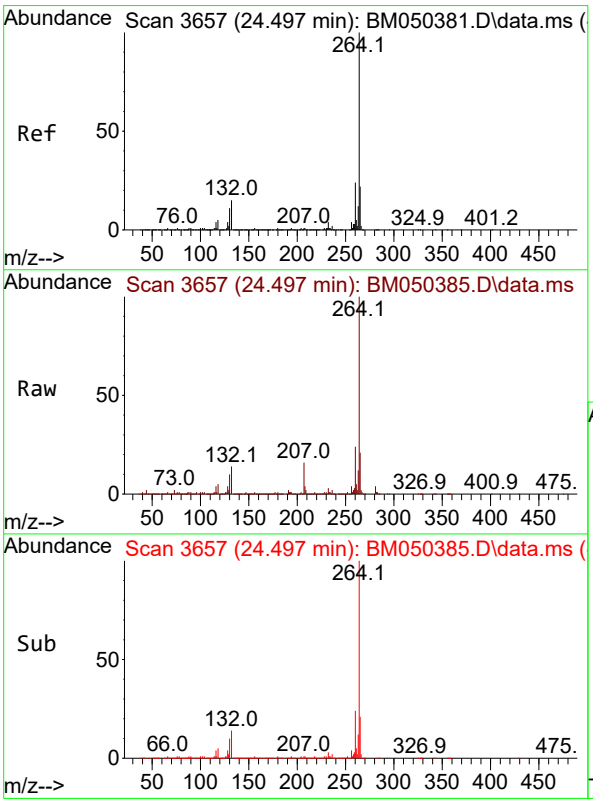
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	9.3	7.7	11.5



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

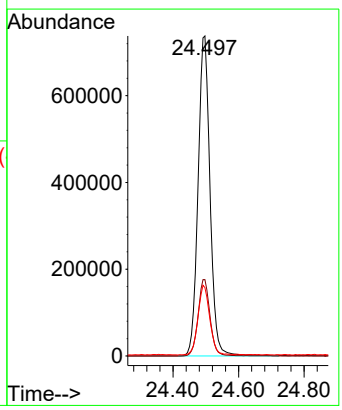
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

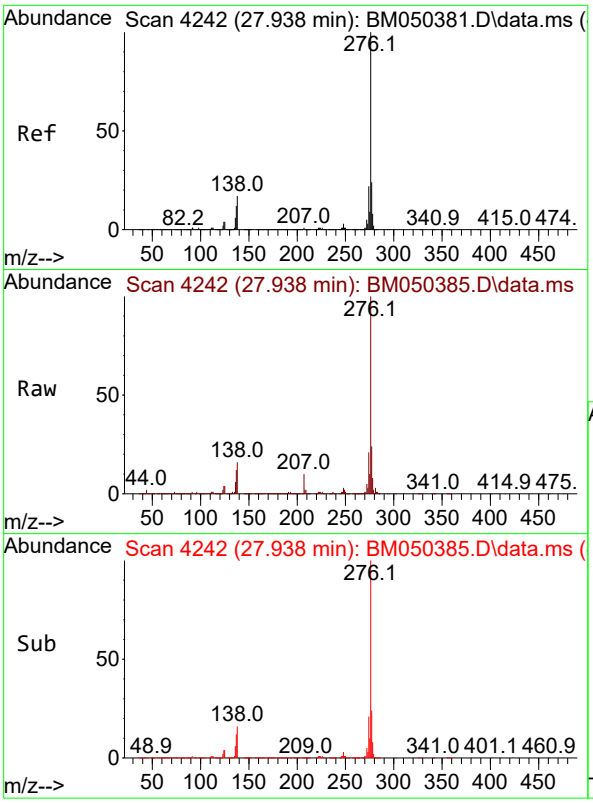


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.497 min Scan# 3657
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:264 Resp: 1874427

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.4	17.8	26.6

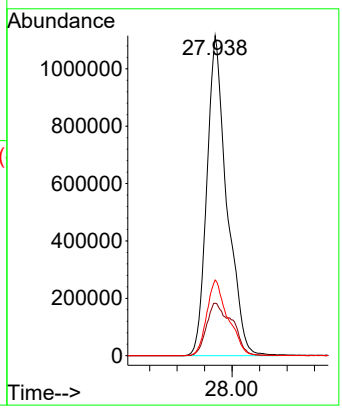




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.377 ng
RT: 27.938 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:276 Resp: 564762

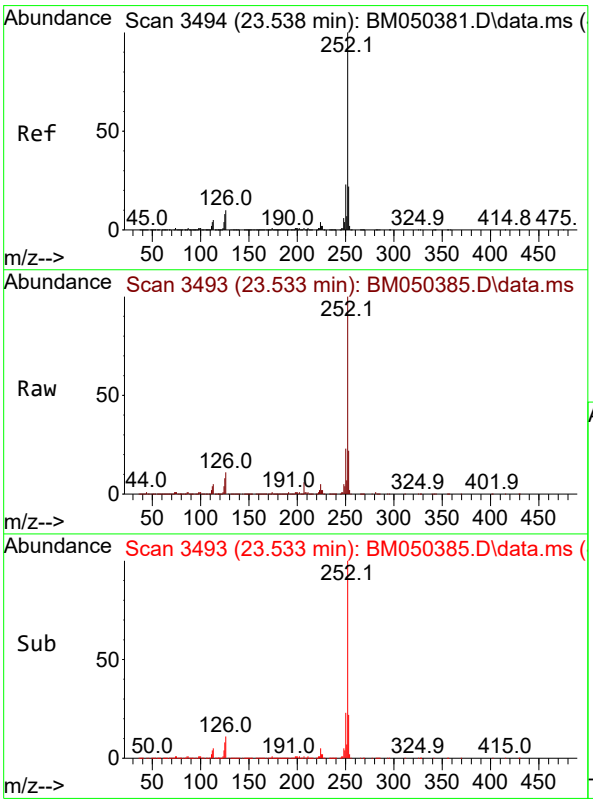
Ion	Ratio	Lower	Upper
276	100		
138	21.1	17.0	25.6
277	25.0	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

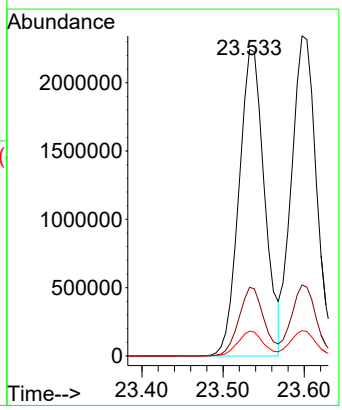
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

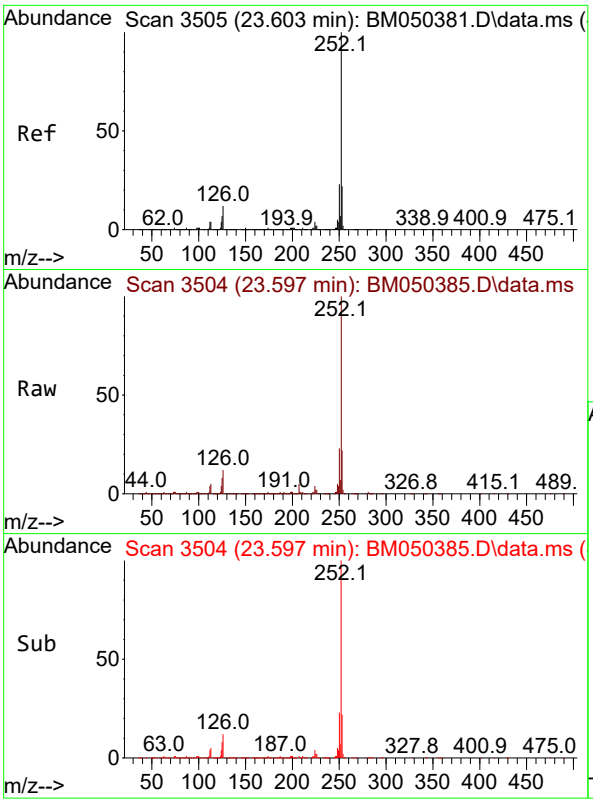


#88
Benzo(b)fluoranthene
Concen: 42.558 ng
RT: 23.533 min Scan# 3493
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:252 Resp: 4906807

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.6
125	8.1	6.3	9.5

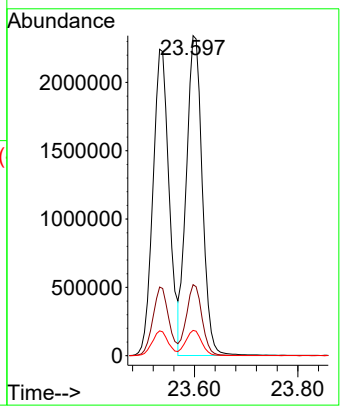




#89
Benzo(k)fluoranthene
Concen: 41.883 ng
RT: 23.597 min Scan# 3
Delta R.T. -0.006 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:252 Resp: 501069

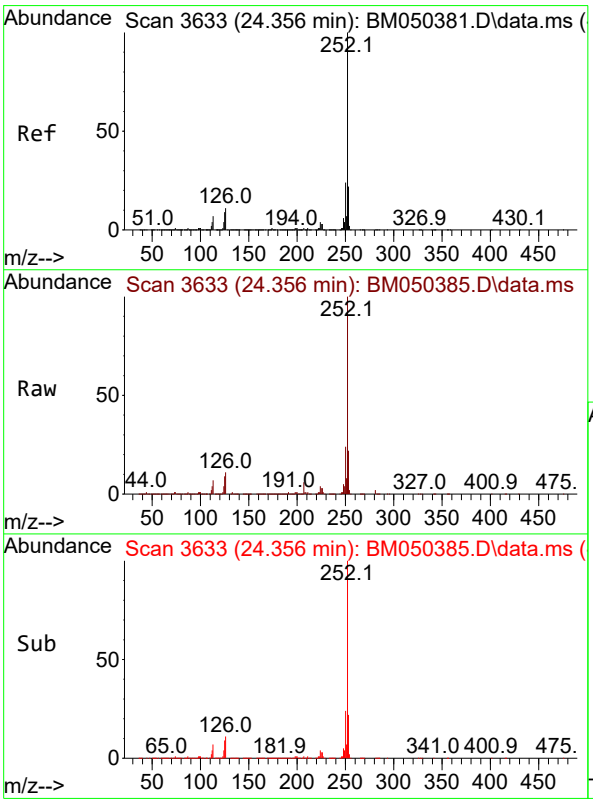
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	7.9	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

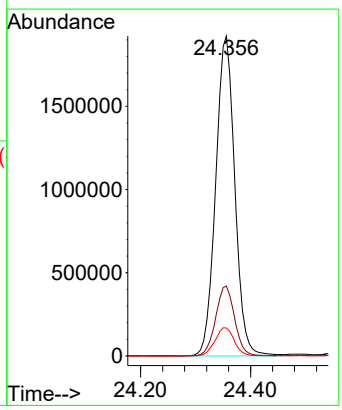
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025

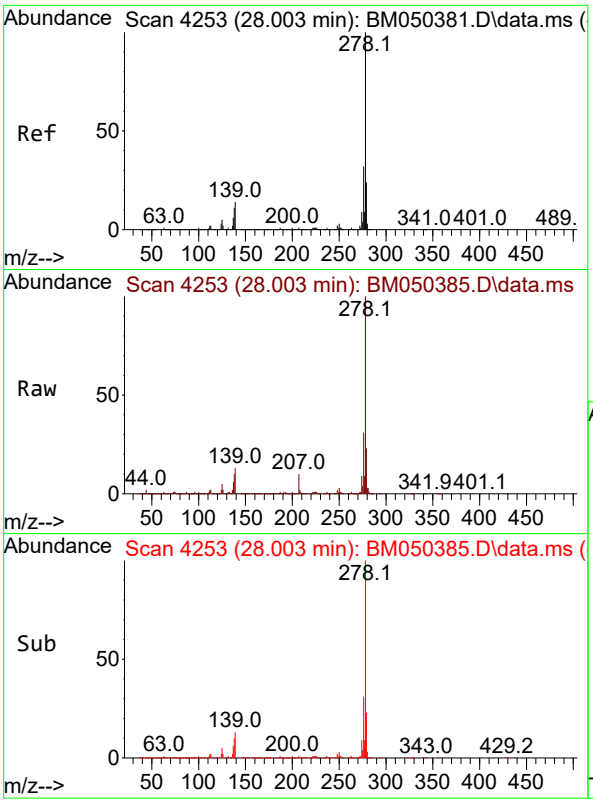


#90
Benzo(a)pyrene
Concen: 42.933 ng
RT: 24.356 min Scan# 3633
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:252 Resp: 4633762

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.8	7.0	10.4

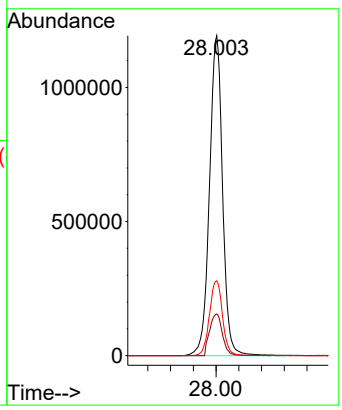




#91
Dibenzo(a,h)anthracene
Concen: 42.521 ng
RT: 28.003 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:278 Resp: 477247

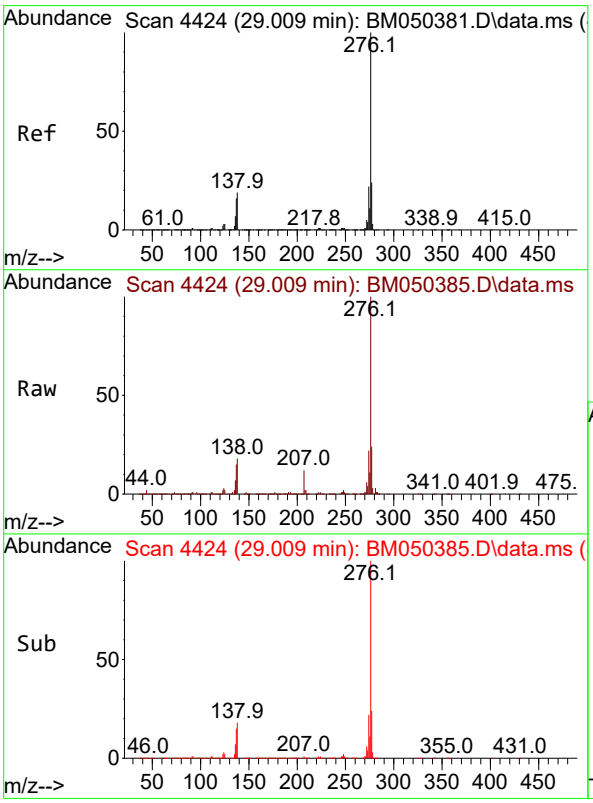
Ion	Ratio	Lower	Upper
278	100		
139	13.1	10.8	16.2
279	23.4	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Manual Integrations
APPROVED

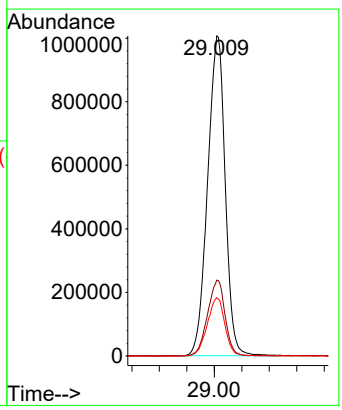
Reviewed By :Rahul Chavli 07/09/2025
Supervised By :Jagrut Upadhyay 07/09/2025



#92
Benzo(g,h,i)perylene
Concen: 42.197 ng
RT: 29.009 min Scan# 4424
Delta R.T. 0.000 min
Lab File: BM050385.D
Acq: 08 Jul 2025 18:05

Tgt Ion:276 Resp: 4476118

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	18.2	14.9	22.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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	104	0.00
2		1,4-Dioxane	0.478	0.454	5.0	102	0.00
3		Pyridine	1.254	1.289	-2.8	109	0.00
4		n-Nitrosodimethylamine	0.585	0.597	-2.1	108	0.00
5	S	2-Fluorophenol	1.162	1.160	0.2	104	0.00
6		Aniline	1.880	2.000	-6.4	110	0.00
7	S	Phenol-d6	1.465	1.477	-0.8	104	0.00
8		2-Chlorophenol	1.225	1.315	-7.3	112	0.00
9		Benzaldehyde	0.871	0.988	-13.4	114	0.00
10	C	Phenol	1.528	1.608	-5.2	111	0.00
11		bis(2-Chloroethyl)ether	1.223	1.292	-5.6	112	0.00
12		1,3-Dichlorobenzene	1.490	1.559	-4.6	112	0.00
13	C	1,4-Dichlorobenzene	1.521	1.582	-4.0	112	0.00
14		1,2-Dichlorobenzene	1.456	1.510	-3.7	111	0.00
15		Benzyl Alcohol	1.032	1.098	-6.4	111	0.00
16		2,2'-oxybis(1-Chloropropane	1.802	1.851	-2.7	110	0.00
17		2-Methylphenol	0.991	1.058	-6.8	111	0.00
18		Hexachloroethane	0.535	0.560	-4.7	112	0.00
19	P	n-Nitroso-di-n-propylamine	0.887	0.980	-10.5	111	0.00
20		3+4-Methylphenols	1.330	1.406	-5.7	110	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00
22		Acetophenone	0.500	0.529	-5.8	112	0.00
23	S	Nitrobenzene-d5	0.392	0.358	8.7	95	0.00
24		Nitrobenzene	0.350	0.366	-4.6	110	0.00
25		Isophorone	0.636	0.682	-7.2	111	0.00
26	C	2-Nitrophenol	0.143	0.166	-16.1	117	0.00
27		2,4-Dimethylphenol	0.303	0.322	-6.3	112	0.00
28		bis(2-Chloroethoxy)methane	0.422	0.441	-4.5	110	0.00
29	C	2,4-Dichlorophenol	0.312	0.336	-7.7	112	0.00
30		1,2,4-Trichlorobenzene	0.373	0.392	-5.1	112	0.00
31		Naphthalene	1.016	1.048	-3.1	110	0.00
32		Benzoic acid	0.165	0.191	-15.8	121	0.00
33		4-Chloroaniline	0.429	0.455	-6.1	110	0.00
34	C	Hexachlorobutadiene	0.228	0.241	-5.7	113	0.00
35		Caprolactam	0.085	0.092	-8.2	110	0.00
36	C	4-Chloro-3-methylphenol	0.291	0.315	-8.2	111	0.00
37		2-Methylnaphthalene	0.641	0.684	-6.7	112	0.00
38		1-Methylnaphthalene	0.679	0.718	-5.7	111	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	0.636	0.681	-7.1	114	0.00
41	P	Hexachlorocyclopentadiene	0.407	0.437	-7.4	115	0.00
42	S	2,4,6-Tribromophenol	0.243	0.255	-4.9	107	0.00
43	C	2,4,6-Trichlorophenol	0.391	0.426	-9.0	113	0.00
44		2,4,5-Trichlorophenol	0.428	0.465	-8.6	113	0.00
45	S	2-Fluorobiphenyl	1.620	1.431	11.7	94	0.00
46		1,1'-Biphenyl	1.484	1.542	-3.9	112	0.00
47		2-Chloronaphthalene	1.183	1.221	-3.2	111	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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	0.264	0.294	-11.4	110	0.00
49		Acenaphthylene	1.788	1.876	-4.9	110	0.00
50		Dimethylphthalate	1.377	1.433	-4.1	111	0.00
51		2,6-Dinitrotoluene	0.264	0.293	-11.0	112	0.00
52	C	Acenaphthene	1.137	1.181	-3.9	111	0.00
53		3-Nitroaniline	0.281	0.315	-12.1	112	0.00
54	P	2,4-Dinitrophenol	0.121	0.132	-9.1	118	0.00
55		Dibenzofuran	1.751	1.790	-2.2	109	0.00
56	P	4-Nitrophenol	0.242	0.259	-7.0	110	0.00
57		2,4-Dinitrotoluene	0.350	0.401	-14.6	113	0.00
58		Fluorene	1.443	1.494	-3.5	110	0.00
59		2,3,4,6-Tetrachlorophenol	0.360	0.389	-8.1	111	0.00
60		Diethylphthalate	1.315	1.368	-4.0	109	0.00
61		4-Chlorophenyl-phenylether	0.754	0.798	-5.8	111	0.00
62		4-Nitroaniline	0.288	0.322	-11.8	108	0.00
63		Azobenzene	1.208	1.254	-3.8	108	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00
65		4,6-Dinitro-2-methylphenol	0.095	0.105	-10.5	117	0.00
66	c	n-Nitrosodiphenylamine	0.626	0.660	-5.4	110	0.00
67		4-Bromophenyl-phenylether	0.220	0.236	-7.3	112	0.00
68		Hexachlorobenzene	0.260	0.276	-6.2	111	0.00
69		Atrazine	0.206	0.227	-10.2	111	0.00
70	C	Pentachlorophenol	0.162	0.174	-7.4	112	0.00
71		Phenanthrene	1.132	1.171	-3.4	110	0.00
72		Anthracene	1.127	1.192	-5.8	110	0.00
73		Carbazole	1.019	1.065	-4.5	109	0.00
74		Di-n-butylphthalate	1.116	1.206	-8.1	109	0.00
75	C	Fluoranthene	1.230	1.306	-6.2	110	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.510	0.677	-32.7#	125	0.00
78		Pyrene	1.281	1.353	-5.6	109	0.00
79	S	Terphenyl-d14	1.137	1.125	1.1	91	0.00
80		Butylbenzylphthalate	0.422	0.477	-13.0	110	0.00
81		Benzo(a)anthracene	1.303	1.372	-5.3	109	0.00
82		3,3'-Dichlorobenzidine	0.439	0.480	-9.3	114	0.00
83		Chrysene	1.229	1.288	-4.8	109	0.00
84		Bis(2-ethylhexyl)phthalate	0.670	0.746	-11.3	108	0.00
85	c	Di-n-octyl phthalate	1.050	1.149	-9.4	111	0.00
86	I	Perylene-d12	1.000	1.000	0.0	102	0.00
87		Indeno(1,2,3-cd)pyrene	1.422	1.506	-5.9	108	0.00
88		Benzo(b)fluoranthene	1.230	1.309	-6.4	108	0.00
89		Benzo(k)fluoranthene	1.276	1.337	-4.8	108	0.00
90	C	Benzo(a)pyrene	1.152	1.236	-7.3	109	0.00
91		Dibenzo(a,h)anthracene	1.198	1.273	-6.3	109	0.00
92		Benzo(g,h,i)perylene	1.132	1.194	-5.5	108	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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	104	0.00
2		1,4-Dioxane	40.000	37.994	5.0	102	0.00
3		Pyridine	40.000	41.118	-2.8	109	0.00
4		n-Nitrosodimethylamine	40.000	40.835	-2.1	108	0.00
5	S	2-Fluorophenol	80.000	79.859	0.2	104	0.00
6		Aniline	40.000	42.568	-6.4	110	0.00
7	S	Phenol-d6	80.000	80.660	-0.8	104	0.00
8		2-Chlorophenol	40.000	42.935	-7.3	112	0.00
9		Benzaldehyde	40.000	45.376	-13.4	114	0.00
10	C	Phenol	40.000	42.114	-5.3	111	0.00
11		bis(2-Chloroethyl)ether	40.000	42.240	-5.6	112	0.00
12		1,3-Dichlorobenzene	40.000	41.848	-4.6	112	0.00
13	C	1,4-Dichlorobenzene	40.000	41.609	-4.0	112	0.00
14		1,2-Dichlorobenzene	40.000	41.478	-3.7	111	0.00
15		Benzyl Alcohol	40.000	42.555	-6.4	111	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.095	-2.7	110	0.00
17		2-Methylphenol	40.000	42.726	-6.8	111	0.00
18		Hexachloroethane	40.000	41.906	-4.8	112	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	44.168	-10.4	111	0.00
20		3+4-Methylphenols	40.000	42.276	-5.7	110	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	104	0.00
22		Acetophenone	40.000	42.290	-5.7	112	0.00
23	S	Nitrobenzene-d5	80.000	73.139	8.6	95	0.00
24		Nitrobenzene	40.000	41.860	-4.6	110	0.00
25		Isophorone	40.000	42.909	-7.3	111	0.00
26	C	2-Nitrophenol	40.000	46.488	-16.2	117	0.00
27		2,4-Dimethylphenol	40.000	42.470	-6.2	112	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.880	-4.7	110	0.00
29	C	2,4-Dichlorophenol	40.000	43.061	-7.7	112	0.00
30		1,2,4-Trichlorobenzene	40.000	42.001	-5.0	112	0.00
31		Naphthalene	40.000	41.281	-3.2	110	0.00
32		Benzoic acid	40.000	41.913	-4.8	121	0.00
33		4-Chloroaniline	40.000	42.424	-6.1	110	0.00
34	C	Hexachlorobutadiene	40.000	42.386	-6.0	113	0.00
35		Caprolactam	40.000	43.156	-7.9	110	0.00
36	C	4-Chloro-3-methylphenol	40.000	43.312	-8.3	111	0.00
37		2-Methylnaphthalene	40.000	42.637	-6.6	112	0.00
38		1-Methylnaphthalene	40.000	42.292	-5.7	111	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	104	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	42.859	-7.1	114	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.015	-7.5	115	0.00
42	S	2,4,6-Tribromophenol	80.000	83.788	-4.7	107	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.485	-8.7	113	0.00
44		2,4,5-Trichlorophenol	40.000	43.542	-8.9	113	0.00
45	S	2-Fluorobiphenyl	80.000	70.689	11.6	94	0.00
46		1,1'-Biphenyl	40.000	41.557	-3.9	112	0.00
47		2-Chloronaphthalene	40.000	41.272	-3.2	111	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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	44.497	-11.2	110	0.00
49		Acenaphthylene	40.000	41.972	-4.9	110	0.00
50		Dimethylphthalate	40.000	41.635	-4.1	111	0.00
51		2,6-Dinitrotoluene	40.000	44.405	-11.0	112	0.00
52	C	Acenaphthene	40.000	41.562	-3.9	111	0.00
53		3-Nitroaniline	40.000	44.871	-12.2	112	0.00
54	P	2,4-Dinitrophenol	40.000	39.797	0.5	118	0.00
55		Dibenzofuran	40.000	40.877	-2.2	109	0.00
56	P	4-Nitrophenol	40.000	42.822	-7.1	110	0.00
57		2,4-Dinitrotoluene	40.000	40.905	-2.3	113	0.00
58		Fluorene	40.000	41.425	-3.6	110	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	43.229	-8.1	111	0.00
60		Diethylphthalate	40.000	41.609	-4.0	109	0.00
61		4-Chlorophenyl-phenylether	40.000	42.288	-5.7	111	0.00
62		4-Nitroaniline	40.000	40.288	-0.7	108	0.00
63		Azobenzene	40.000	41.531	-3.8	108	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	104	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.334	-0.8	117	0.00
66	c	n-Nitrosodiphenylamine	40.000	42.198	-5.5	110	0.00
67		4-Bromophenyl-phenylether	40.000	42.755	-6.9	112	0.00
68		Hexachlorobenzene	40.000	42.380	-6.0	111	0.00
69		Atrazine	40.000	44.212	-10.5	111	0.00
70	C	Pentachlorophenol	40.000	43.075	-7.7	112	0.00
71		Phenanthrene	40.000	41.373	-3.4	110	0.00
72		Anthracene	40.000	42.316	-5.8	110	0.00
73		Carbazole	40.000	41.806	-4.5	109	0.00
74		Di-n-butylphthalate	40.000	43.247	-8.1	109	0.00
75	C	Fluoranthene	40.000	42.474	-6.2	110	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	53.050	-32.6#	125	0.00
78		Pyrene	40.000	42.257	-5.6	109	0.00
79	S	Terphenyl-d14	80.000	79.145	1.1	91	0.00
80		Butylbenzylphthalate	40.000	45.139	-12.8	110	0.00
81		Benzo(a)anthracene	40.000	42.109	-5.3	109	0.00
82		3,3'-Dichlorobenzidine	40.000	43.733	-9.3	114	0.00
83		Chrysene	40.000	41.924	-4.8	109	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	44.481	-11.2	108	0.00
85	c	Di-n-octyl phthalate	40.000	43.760	-9.4	111	0.00
86	I	Perylene-d12	20.000	20.000	0.0	102	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	42.377	-5.9	108	0.00
88		Benzo(b)fluoranthene	40.000	42.558	-6.4	108	0.00
89		Benzo(k)fluoranthene	40.000	41.883	-4.7	108	0.00
90	C	Benzo(a)pyrene	40.000	42.933	-7.3	109	0.00
91		Dibenzo(a,h)anthracene	40.000	42.521	-6.3	109	0.00
92		Benzo(g,h,i)perylene	40.000	42.197	-5.5	108	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050385.D
Acq On : 08 Jul 2025 18:05
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ICVBM070925

Quant Time: Jul 09 01:17:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 18:32:25 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:	Alliance	Contract:	PARS02		
Lab Code:	ACE	SDG No.:	Q2592		
Instrument ID:	BNA_F	Calibration Date/Time:	07/16/2025	19:39	
Lab File ID:	BF143117.D	Init. Calib. Date(s):	07/15/2025	07/15/2025	
EPA Sample No.:	SSTDCCC040	Init. Calib. Time(s):	13:04	16:35	

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.596	1.575		-1.3	
2-Fluorophenol	1.266	1.249		-1.3	
Phenol-d6	1.591	1.563		-1.8	
1,4-Dichlorobenzene	1.446	1.418		-1.9	20.0
2-Methylphenol	1.098	1.094		-0.4	
3+4-Methylphenols	1.346	1.368		1.6	
Nitrobenzene-d5	0.357	0.402		12.6	
Hexachloroethane	0.471	0.486		3.2	
Nitrobenzene	0.344	0.369		7.3	
Hexachlorobutadiene	0.178	0.178		0.0	20.0
2,4,6-Trichlorophenol	0.362	0.386		6.6	20.0
2-Fluorobiphenyl	1.505	1.421		-5.6	
2,4,5-Trichlorophenol	0.380	0.387		1.8	
2,4-Dinitrotoluene	0.265	0.307		15.8	
2,4,6-Tribromophenol	0.178	0.191		7.3	
Hexachlorobenzene	0.241	0.241		0.0	
Pentachlorophenol	0.132	0.144		9.1	20.0
Terphenyl-d14	1.368	1.302		-4.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.969	152	135149	20.000	ng		0.00
21) Naphthalene-d8	8.251	136	510164	20.000	ng		0.00
39) Acenaphthene-d10	10.004	164	254065	20.000	ng		0.00
64) Phenanthrene-d10	11.492	188	397173	20.000	ng		0.00
76) Chrysene-d12	14.127	240	210714	20.000	ng		0.00
86) Perylene-d12	15.633	264	255524	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.587	112	675027	78.913	ng		0.00
7) Phenol-d6	6.587	99	845178	78.603	ng		0.00
23) Nitrobenzene-d5	7.528	82	820016	90.170	ng		0.00
42) 2,4,6-Tribromophenol	10.792	330	193992	85.634	ng		0.00
45) 2-Fluorobiphenyl	9.322	172	1444367	75.570	ng		0.00
79) Terphenyl-d14	13.075	244	1097674	76.150	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.811	88	169746	39.864	ng		98
3) Pyridine	3.581	79	425792	39.489	ng		98
4) n-Nitrosodimethylamine	3.522	42	217941	39.012	ng		99
6) Aniline	6.628	93	595971	39.360	ng		99
8) 2-Chlorophenol	6.751	128	355815	41.401	ng		98
9) Benzaldehyde	6.516	77	335257	40.919	ng		99
10) Phenol	6.598	94	490852	42.169	ng		100
11) bis(2-Chloroethyl)ether	6.698	93	350864	38.936	ng		99
12) 1,3-Dichlorobenzene	6.910	146	386579	39.815	ng		99
13) 1,4-Dichlorobenzene	6.987	146	383281	39.238	ng		99
14) 1,2-Dichlorobenzene	7.140	146	363768	39.051	ng		98
15) Benzyl Alcohol	7.098	79	319688	40.125	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.240	45	645668	38.870	ng		100
17) 2-Methylphenol	7.204	107	295753	39.876	ng		99
18) Hexachloroethane	7.487	117	131364	41.310	ng		98
19) n-Nitroso-di-n-propyla...	7.375	70	260963	39.615	ng		99
20) 3+4-Methylphenols	7.363	107	369651	40.641	ng		99
22) Acetophenone	7.369	105	476586	38.753	ng	#	93
24) Nitrobenzene	7.545	77	376400	42.874	ng		99
25) Isophorone	7.787	82	688462	39.167	ng		100
26) 2-Nitrophenol	7.863	139	148006	42.663	ng		100
27) 2,4-Dimethylphenol	7.893	122	326049	39.965	ng		99
28) bis(2-Chloroethoxy)met...	7.993	93	420098	39.412	ng		100
29) 2,4-Dichlorophenol	8.098	162	274747	41.164	ng		99
30) 1,2,4-Trichlorobenzene	8.187	180	297978	39.339	ng		98
31) Naphthalene	8.269	128	991571	39.140	ng		100
32) Benzoic acid	7.987	122	150277	38.466	ng		97
33) 4-Chloroaniline	8.310	127	401159	39.377	ng		100
34) Hexachlorobutadiene	8.393	225	181527	40.072	ng		99
35) Caprolactam	8.675	113	85847	41.190	ng		95
36) 4-Chloro-3-methylphenol	8.787	107	298817	40.192	ng		100
37) 2-Methylnaphthalene	8.963	142	589636	39.014	ng		100
38) 1-Methylnaphthalene	9.063	142	610968	38.976	ng		100
40) 1,2,4,5-Tetrachloroben...	9.128	216	287903	38.885	ng		99
41) Hexachlorocyclopentadiene	9.122	237	173333	42.225	ng		99
43) 2,4,6-Trichlorophenol	9.234	196	195982	42.600	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

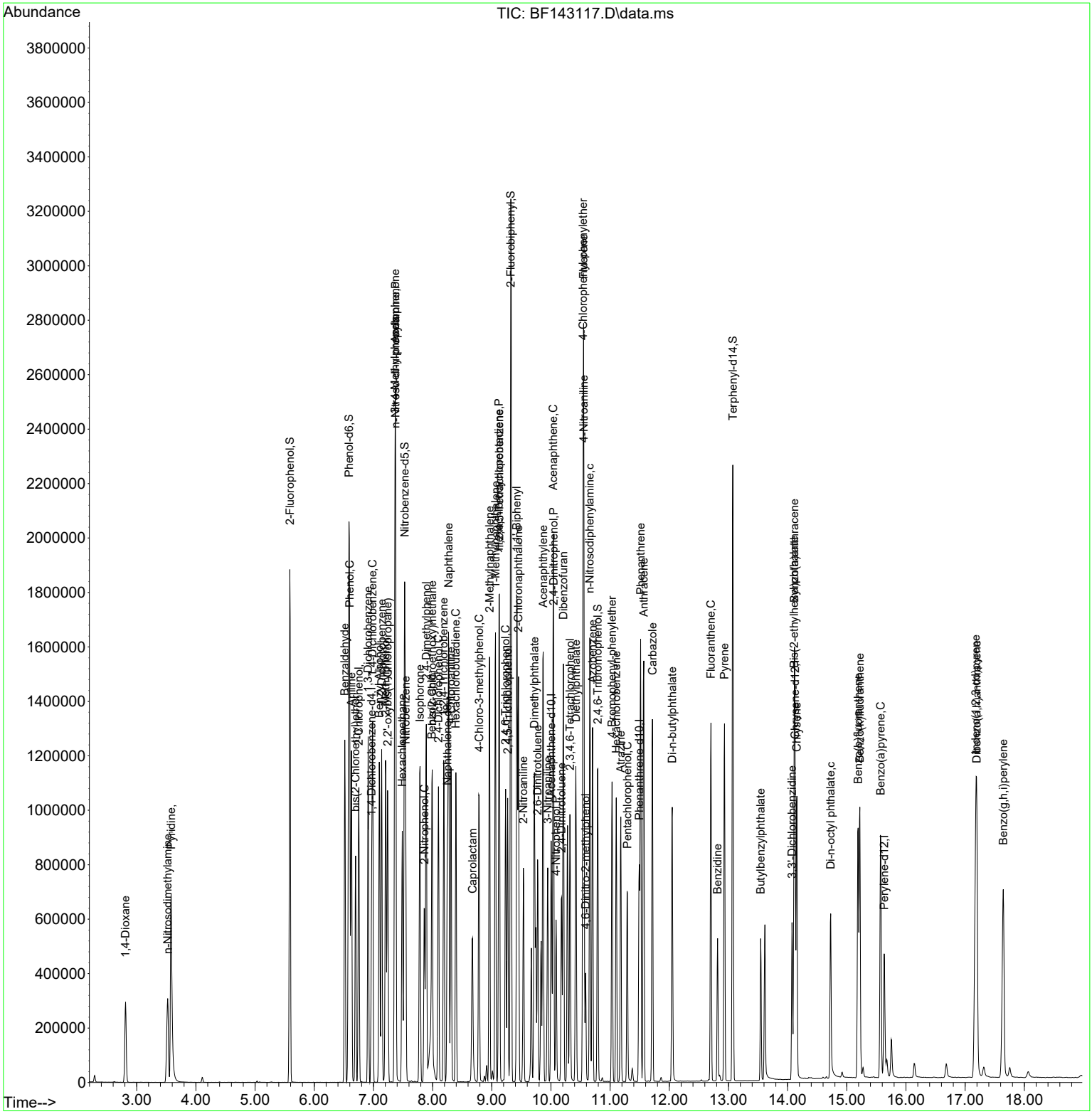
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	9.269	196	196557	40.747	ng		99
46)	1,1'-Biphenyl	9.422	154	779366	38.466	ng		100
47)	2-Chloronaphthalene	9.451	162	573731	38.546	ng		100
48)	2-Nitroaniline	9.534	65	178618	40.710	ng		99
49)	Acenaphthylene	9.869	152	971647	39.176	ng		99
50)	Dimethylphthalate	9.722	163	628010	39.291	ng		100
51)	2,6-Dinitrotoluene	9.775	165	130906	41.829	ng		95
52)	Acenaphthene	10.039	154	566434	38.701	ng		99
53)	3-Nitroaniline	9.945	138	151765	43.942	ng		97
54)	2,4-Dinitrophenol	10.045	184	41904	42.980	ng	#	44
55)	Dibenzofuran	10.210	168	838011	38.413	ng		100
56)	4-Nitrophenol	10.086	139	117068	42.650	ng		99
57)	2,4-Dinitrotoluene	10.181	165	155813	40.106	ng		96
58)	Fluorene	10.551	166	619482	37.875	ng		100
59)	2,3,4,6-Tetrachlorophenol	10.322	232	164509	42.914	ng		98
60)	Diethylphthalate	10.422	149	615586	39.920	ng		100
61)	4-Chlorophenyl-phenyle...	10.545	204	306293	39.072	ng		100
62)	4-Nitroaniline	10.557	138	129761	43.204	ng		99
63)	Azobenzene	10.704	77	652575	38.265	ng		99
65)	4,6-Dinitro-2-methylph...	10.586	198	62192	43.295	ng		97
66)	n-Nitrosodiphenylamine	10.657	169	545898	39.129	ng		99
67)	4-Bromophenyl-phenylether	11.034	248	180440	39.949	ng		98
68)	Hexachlorobenzene	11.104	284	191457	39.950	ng		97
69)	Atrazine	11.181	200	145300	40.708	ng		99
70)	Pentachlorophenol	11.292	266	114049	43.376	ng		99
71)	Phenanthrene	11.516	178	831246	38.780	ng		100
72)	Anthracene	11.569	178	844296	39.169	ng		99
73)	Carbazole	11.716	167	742234	38.436	ng		100
74)	Di-n-butylphthalate	12.051	149	743944	41.970	ng		100
75)	Fluoranthene	12.704	202	752396	38.604	ng		99
77)	Benzidine	12.816	184	274069	38.177	ng		99
78)	Pyrene	12.933	202	747120	38.214	ng		100
80)	Butylbenzylphthalate	13.545	149	153672	39.754	ng		95
81)	Benzo(a)anthracene	14.116	228	570413	40.624	ng		100
82)	3,3'-Dichlorobenzidine	14.074	252	164768	40.409	ng		99
83)	Chrysene	14.157	228	486986	37.657	ng		100
84)	Bis(2-ethylhexyl)phtha...	14.110	149	241107	41.219	ng		100
85)	Di-n-octyl phthalate	14.727	149	439529	40.440	ng		99
87)	Indeno(1,2,3-cd)pyrene	17.180	276	781535	41.122	ng		100
88)	Benzo(b)fluoranthene	15.192	252	580612	39.393	ng		99
89)	Benzo(k)fluoranthene	15.221	252	558211	39.698	ng		99
90)	Benzo(a)pyrene	15.574	252	570084	40.896	ng		99
91)	Dibenzo(a,h)anthracene	17.198	278	635338	40.895	ng		99
92)	Benzo(g,h,i)perylene	17.645	276	642024	40.534	ng		98

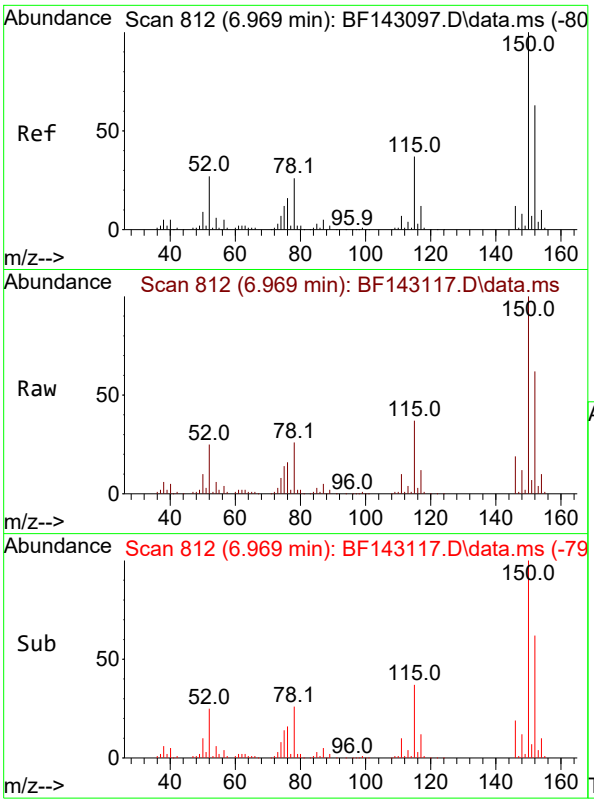
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration



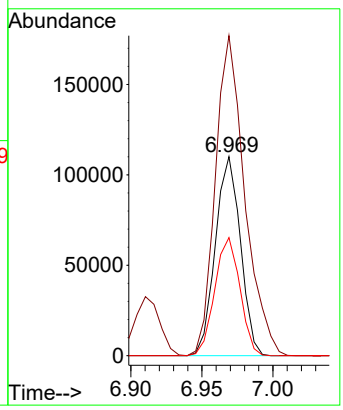


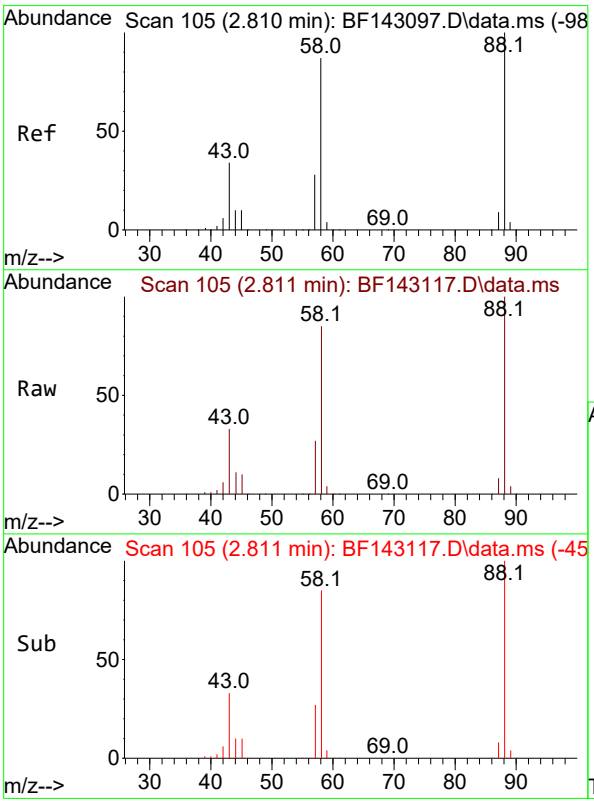
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 135149

Ion	Ratio	Lower	Upper
152	100		
150	160.8	126.5	189.7
115	59.4	47.0	70.6

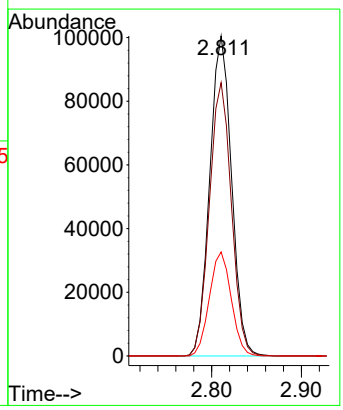


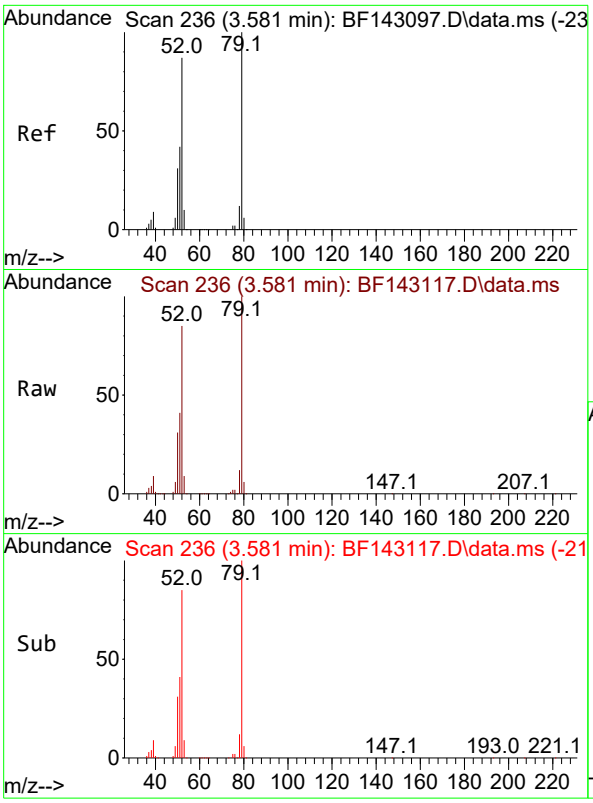


#2
1,4-Dioxane
Concen: 39.864 ng
RT: 2.811 min Scan# 105
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 88 Resp: 169746

Ion	Ratio	Lower	Upper
88	100		
58	86.0	70.5	105.7
43	32.5	27.3	40.9



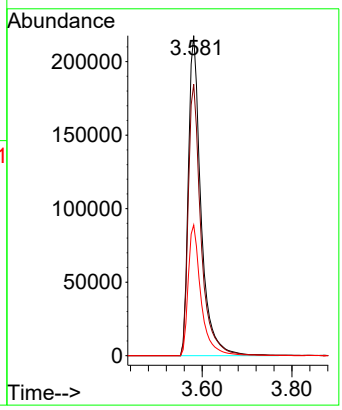


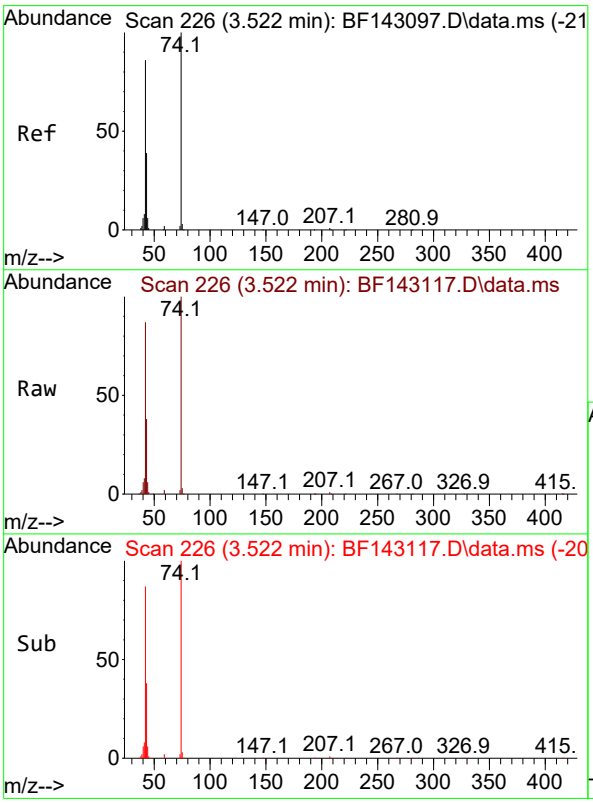
#3
Pyridine
Concen: 39.489 ng
RT: 3.581 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 425792

Ion	Ratio	Lower	Upper
79	100		
52	84.8	69.2	103.8
51	40.9	33.3	49.9

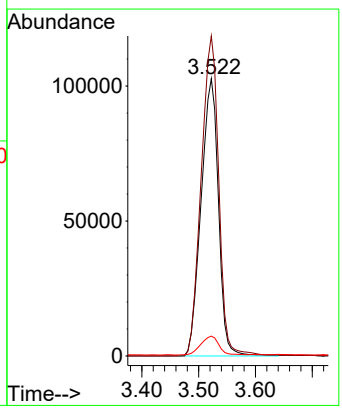


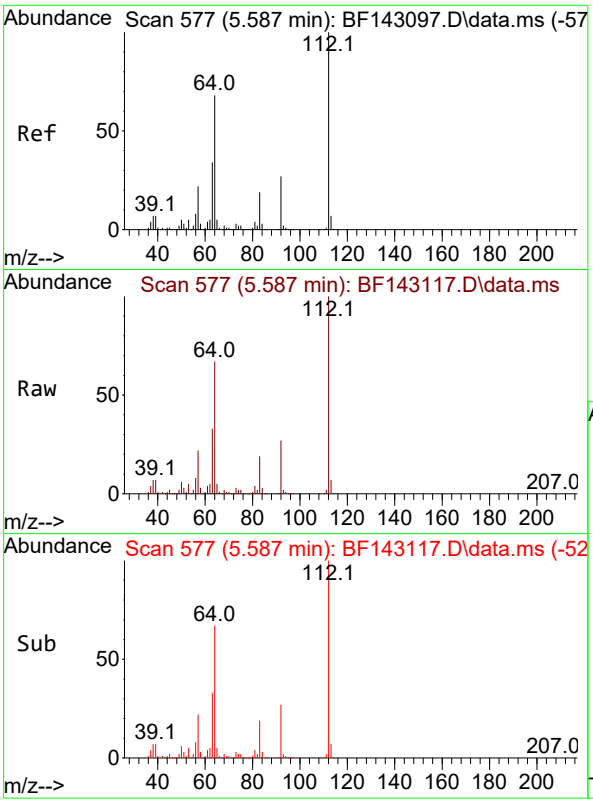


#4
n-Nitrosodimethylamine
Concen: 39.012 ng
RT: 3.522 min Scan# 226
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 42 Resp: 217941

Ion	Ratio	Lower	Upper
42	100		
74	115.4	92.8	139.2
44	7.2	5.8	8.6



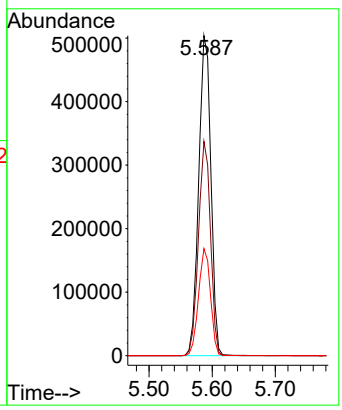


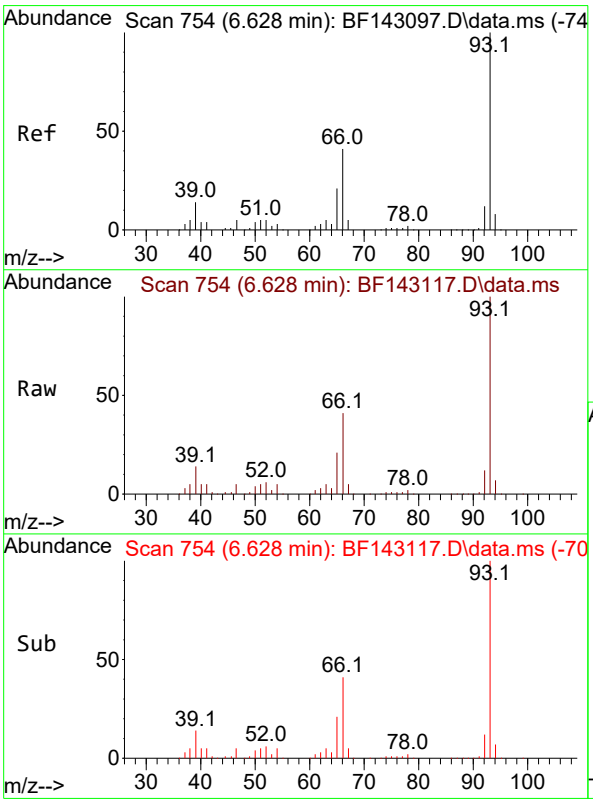
#5
2-Fluorophenol
Concen: 78.913 ng
RT: 5.587 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 675027

Ion	Ratio	Lower	Upper
112	100		
64	67.0	54.6	82.0
63	33.5	27.3	40.9

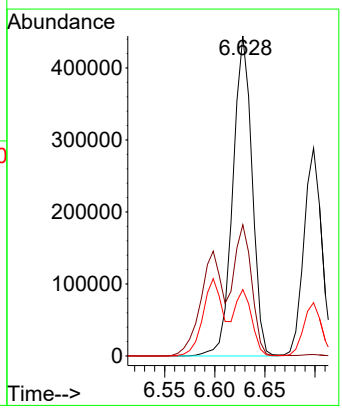


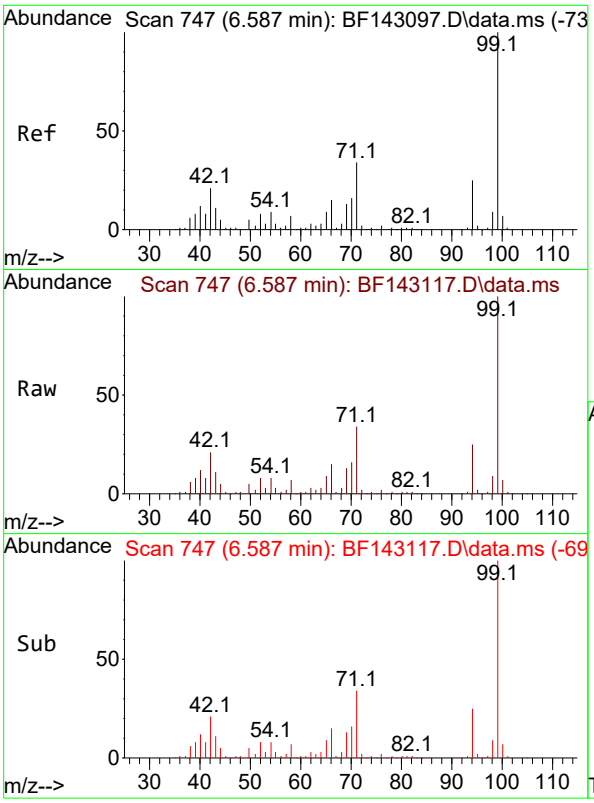


#6
Aniline
Concen: 39.360 ng
RT: 6.628 min Scan# 754
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 93 Resp: 595971

Ion	Ratio	Lower	Upper
93	100		
66	41.0	33.1	49.7
65	20.8	16.9	25.3



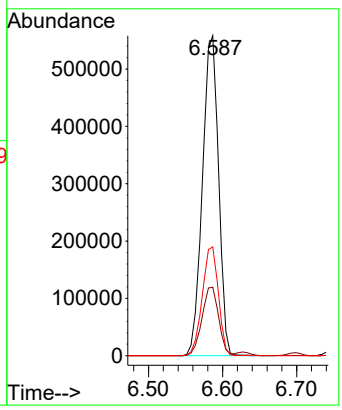


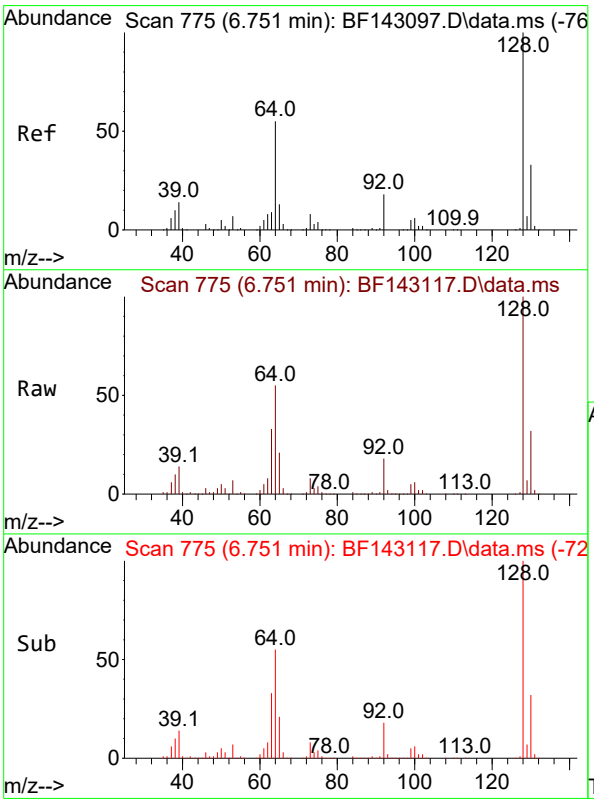
#7
Phenol-d6
Concen: 78.603 ng
RT: 6.587 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 845178

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	34.0	27.4	41.0

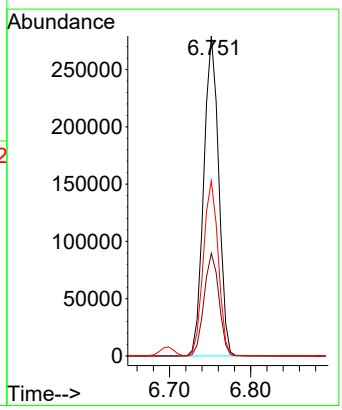


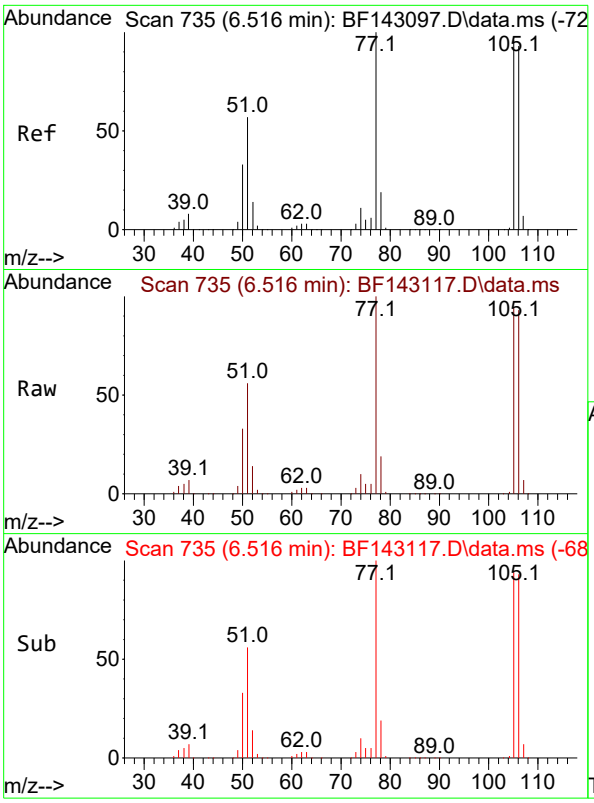


#8
2-Chlorophenol
Concen: 41.401 ng
RT: 6.751 min Scan# 775
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:128 Resp: 355815

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.8	52.8
64	54.7	36.1	76.1



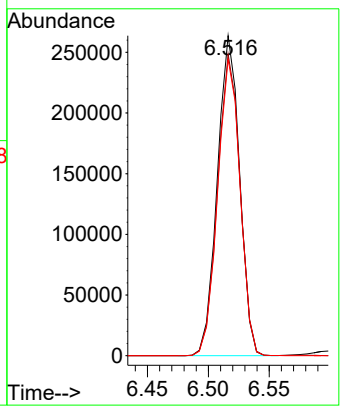


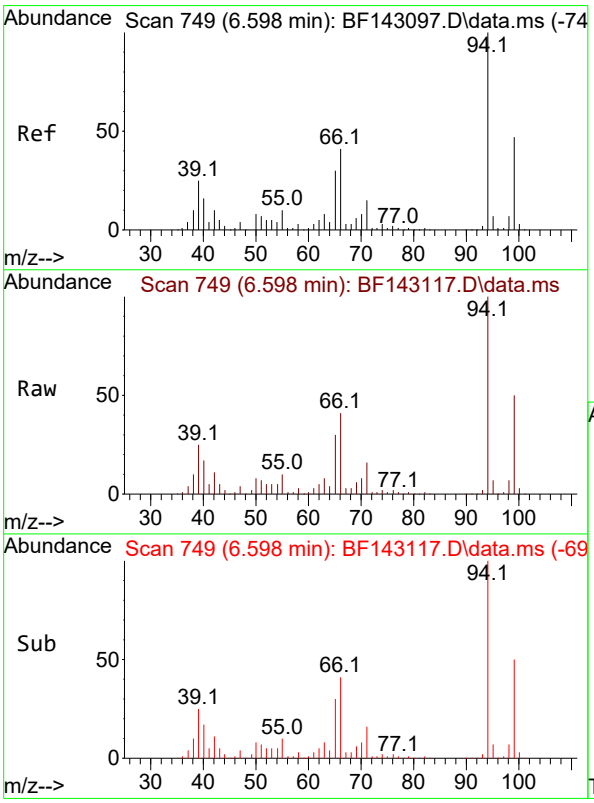
#9
Benzaldehyde
Concen: 40.919 ng
RT: 6.516 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 335257

Ion	Ratio	Lower	Upper
77	100		
105	94.2	76.3	116.3
106	92.7	72.8	112.8

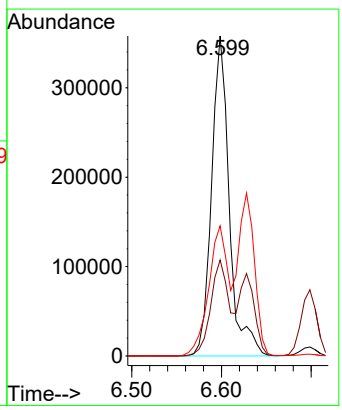


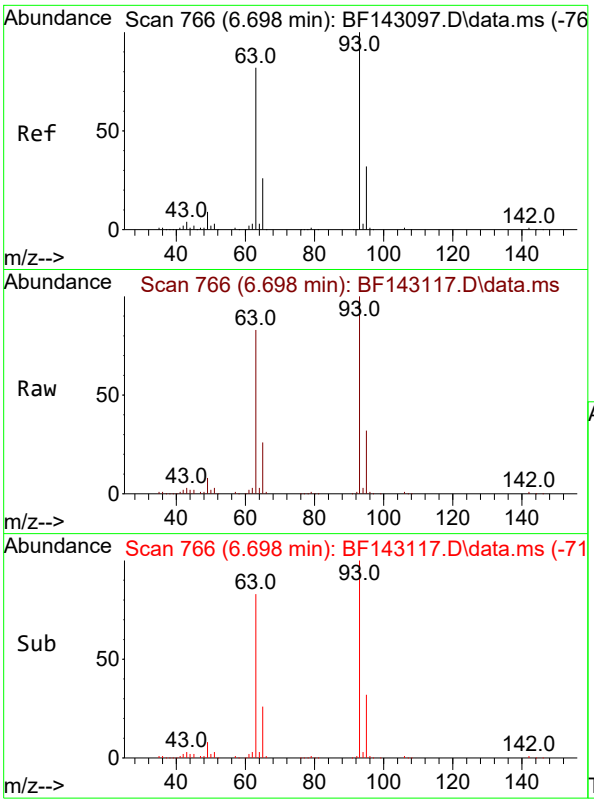


#10
Phenol
Concen: 42.169 ng
RT: 6.598 min Scan# 749
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 94 Resp: 490852

Ion	Ratio	Lower	Upper
94	100		
65	30.0	9.8	49.8
66	40.7	20.5	60.5



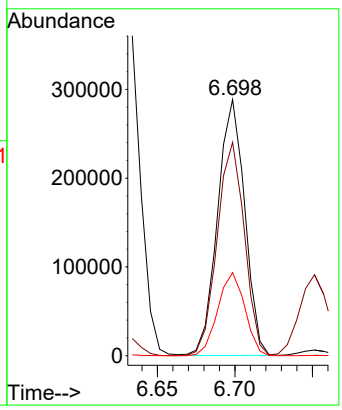


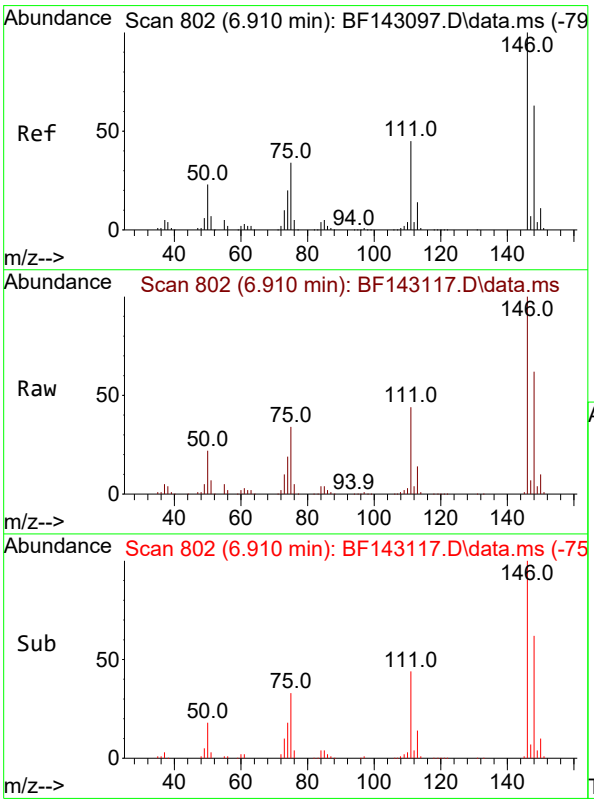
#11
bis(2-Chloroethyl)ether
Concen: 38.936 ng
RT: 6.698 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 350864

Ion	Ratio	Lower	Upper
93	100		
63	83.4	61.9	101.9
95	32.4	12.2	52.2

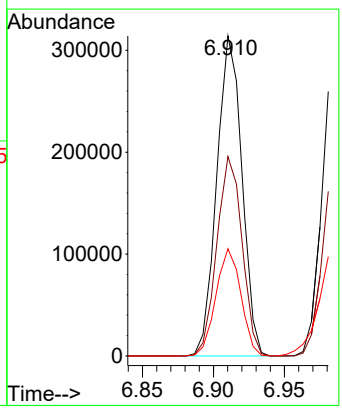


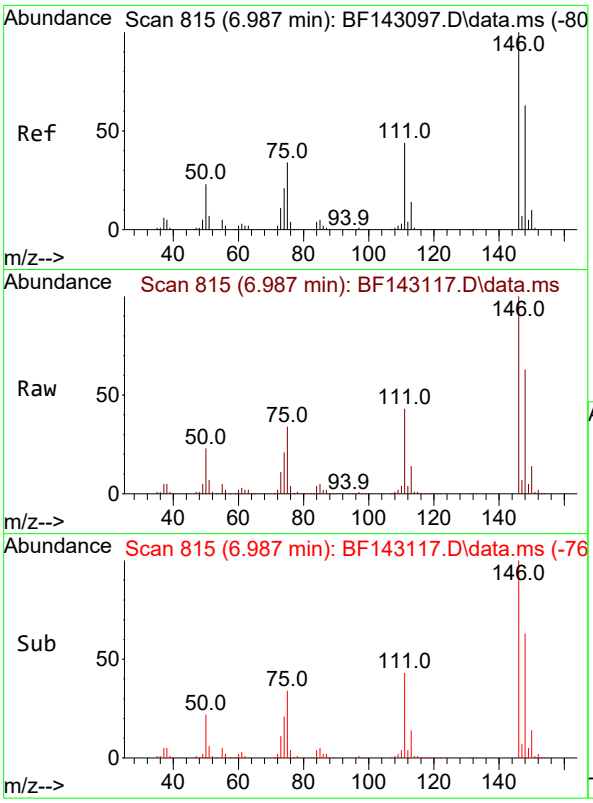


#12
1,3-Dichlorobenzene
Concen: 39.815 ng
RT: 6.910 min Scan# 802
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:146 Resp: 386579

Ion	Ratio	Lower	Upper
146	100		
148	62.3	50.1	75.1
75	33.5	27.4	41.0



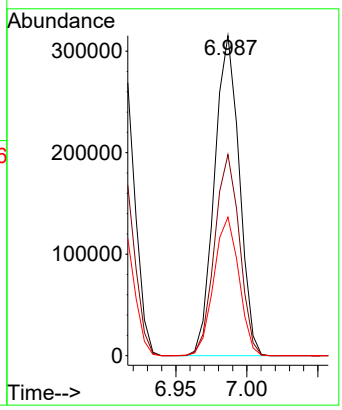


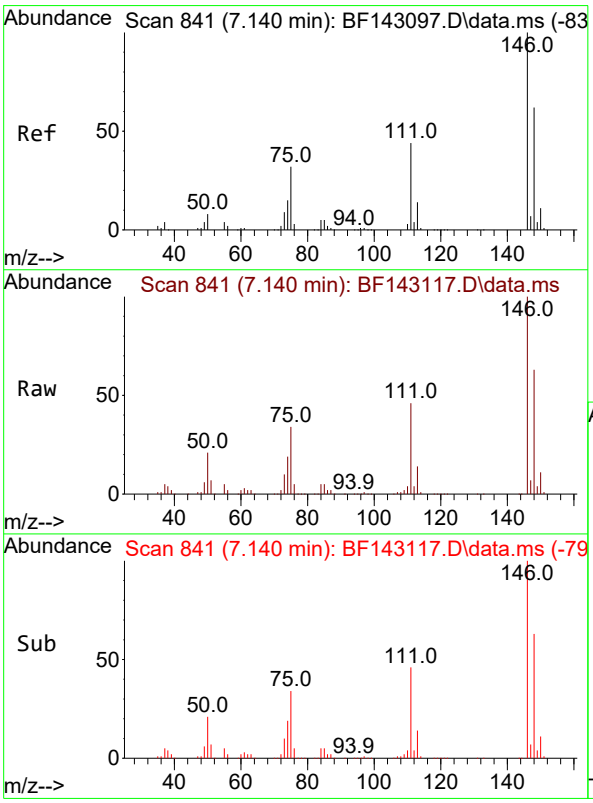
#13
1,4-Dichlorobenzene
Concen: 39.238 ng
RT: 6.987 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 383281

Ion	Ratio	Lower	Upper
146	100		
148	62.8	50.6	76.0
111	43.3	35.0	52.6

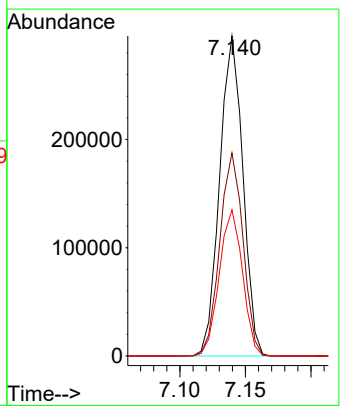


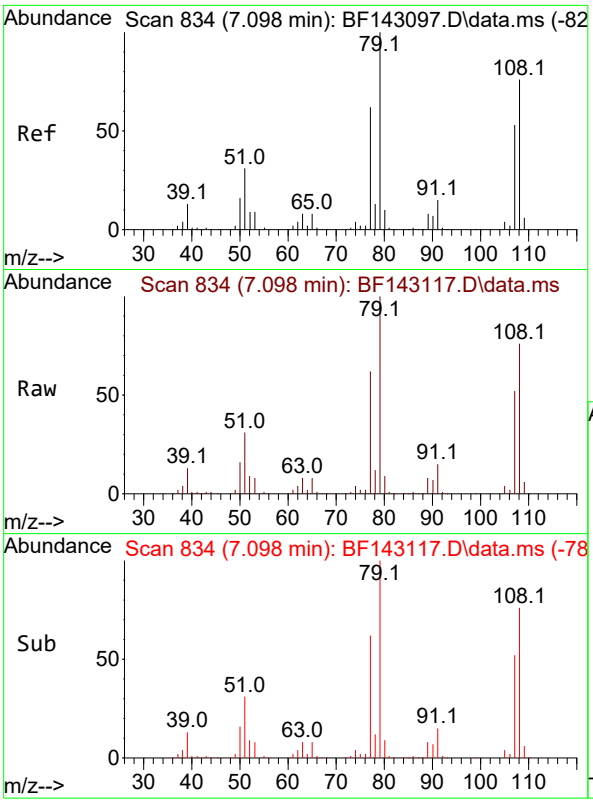


#14
1,2-Dichlorobenzene
Concen: 39.051 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:146 Resp: 363768

Ion	Ratio	Lower	Upper
146	100		
148	63.4	49.8	74.6
111	45.6	35.4	53.0



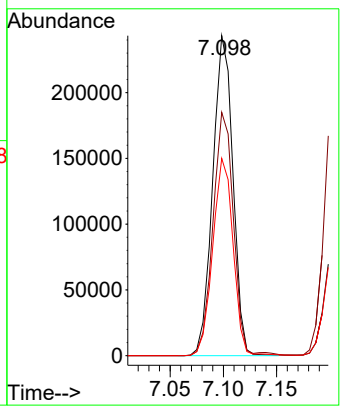


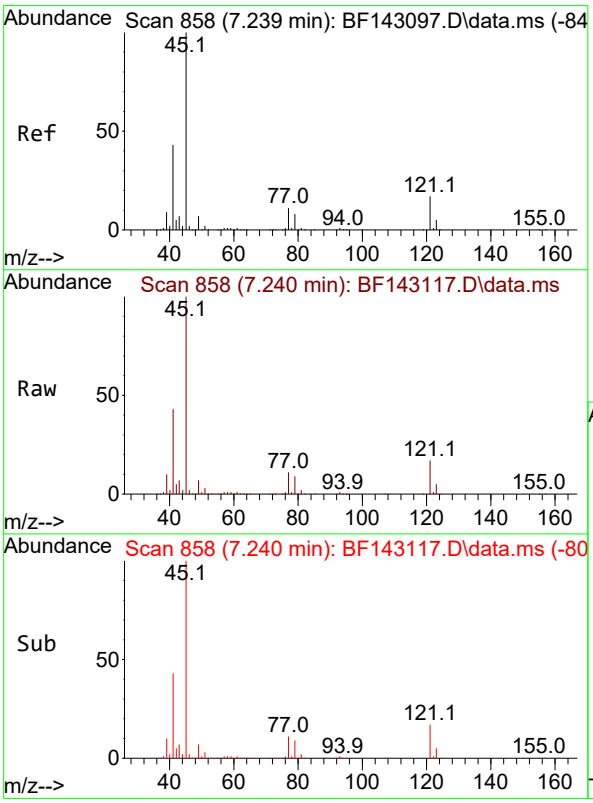
#15
Benzyl Alcohol
Concen: 40.125 ng
RT: 7.098 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 319688

Ion	Ratio	Lower	Upper
79	100		
108	76.1	61.1	91.7
77	61.7	49.9	74.9

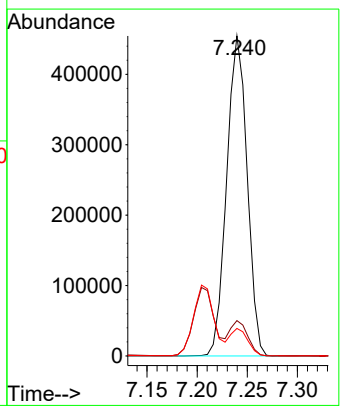


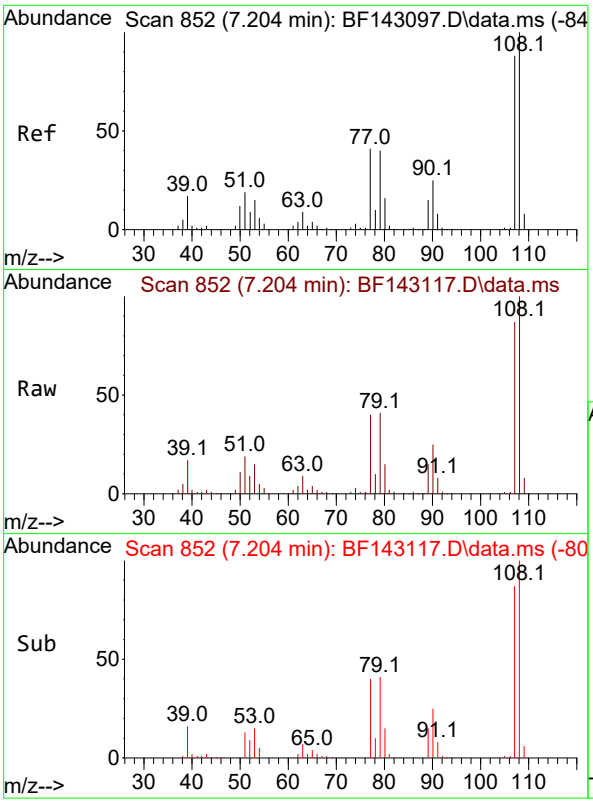


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.870 ng
RT: 7.240 min Scan# 858
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 45 Resp: 645668

Ion	Ratio	Lower	Upper
45	100		
77	11.0	0.0	31.1
79	8.6	0.0	28.4



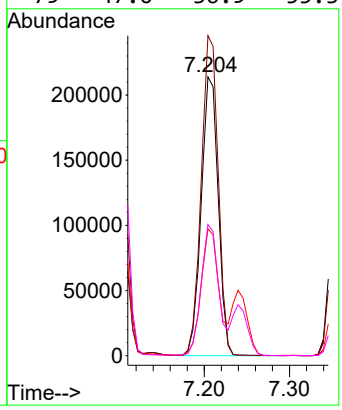


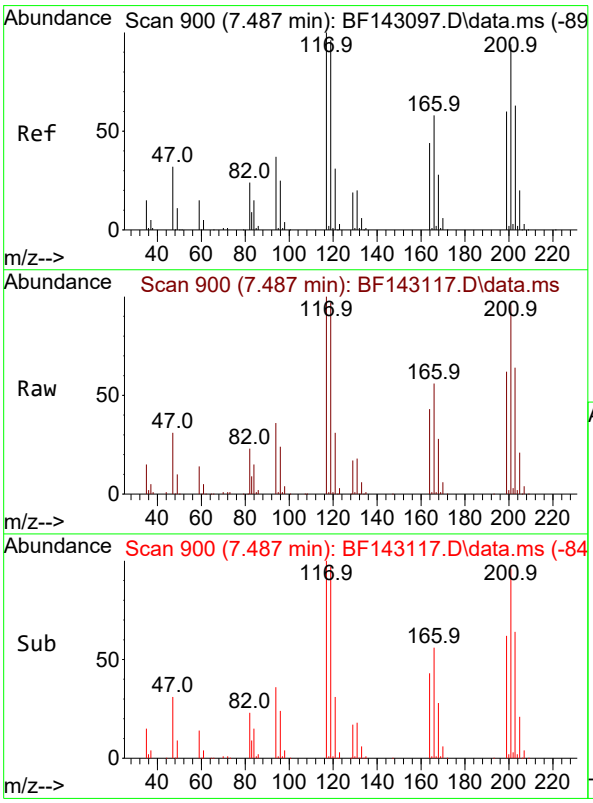
#17
2-Methylphenol
Concen: 39.876 ng
RT: 7.204 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 295753

Ion	Ratio	Lower	Upper
107	100		
108	114.8	90.9	136.3
77	45.5	37.5	56.3
79	47.0	36.9	55.3

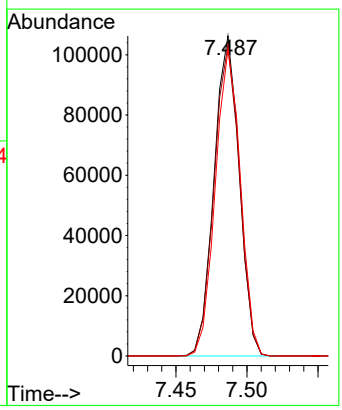


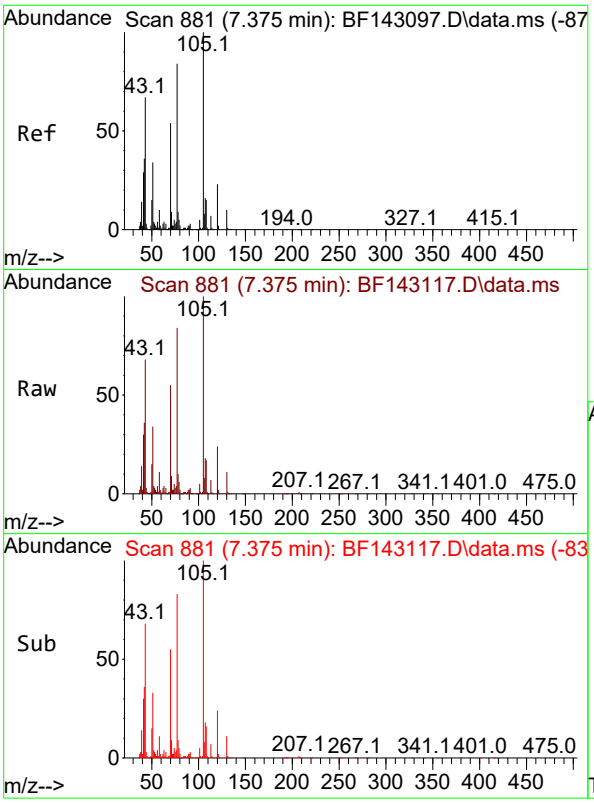


#18
Hexachloroethane
Concen: 41.310 ng
RT: 7.487 min Scan# 900
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:117 Resp: 131364

Ion	Ratio	Lower	Upper
117	100		
119	97.2	76.7	115.1
201	95.8	75.0	112.4



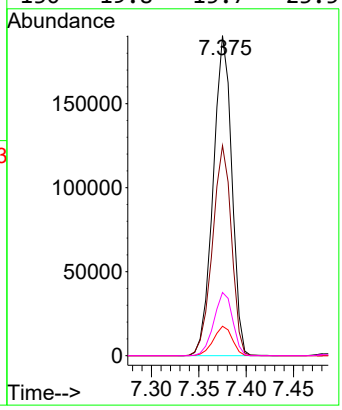


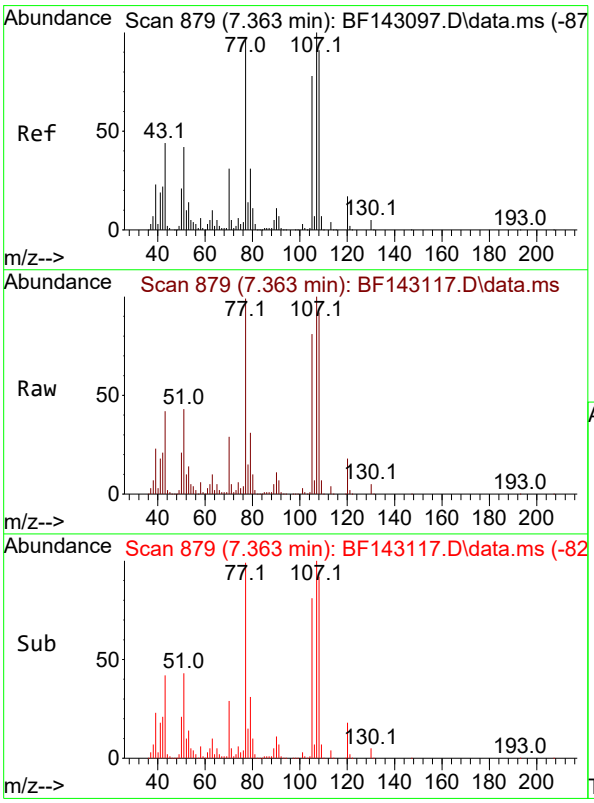
#19
n-Nitroso-di-n-propylamine
Concen: 39.615 ng
RT: 7.375 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 260963

Ion	Ratio	Lower	Upper
70	100		
42	65.6	53.2	79.8
101	9.2	7.5	11.3
130	19.8	15.7	23.5

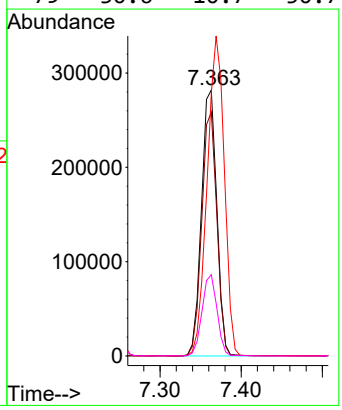


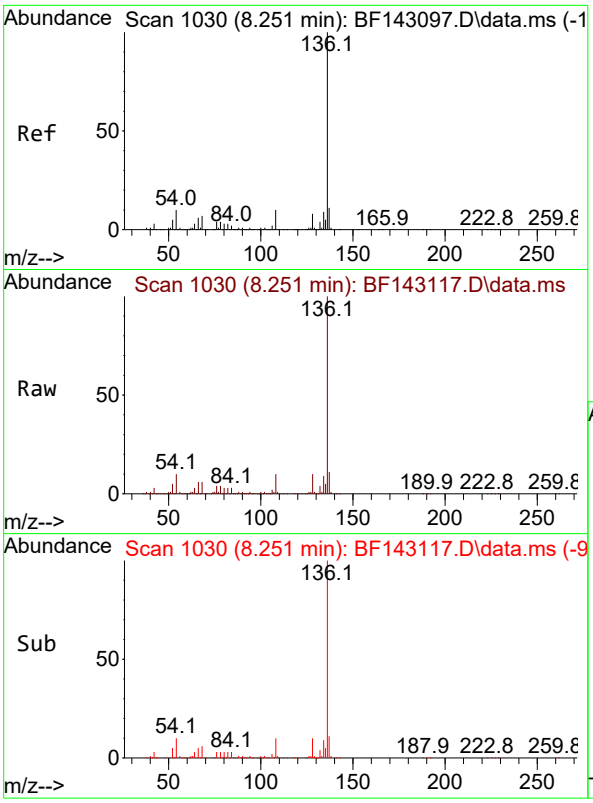


#20
3+4-Methylphenols
Concen: 40.641 ng
RT: 7.363 min Scan# 879
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:107 Resp: 369651

Ion	Ratio	Lower	Upper
107	100		
108	91.8	71.3	111.3
77	98.8	77.2	117.2
79	30.6	10.7	50.7



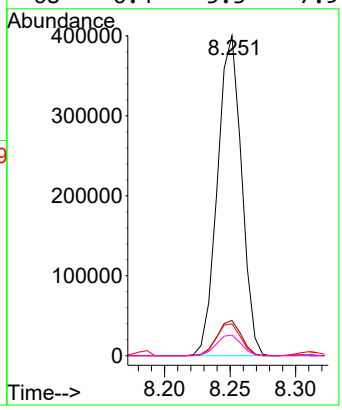


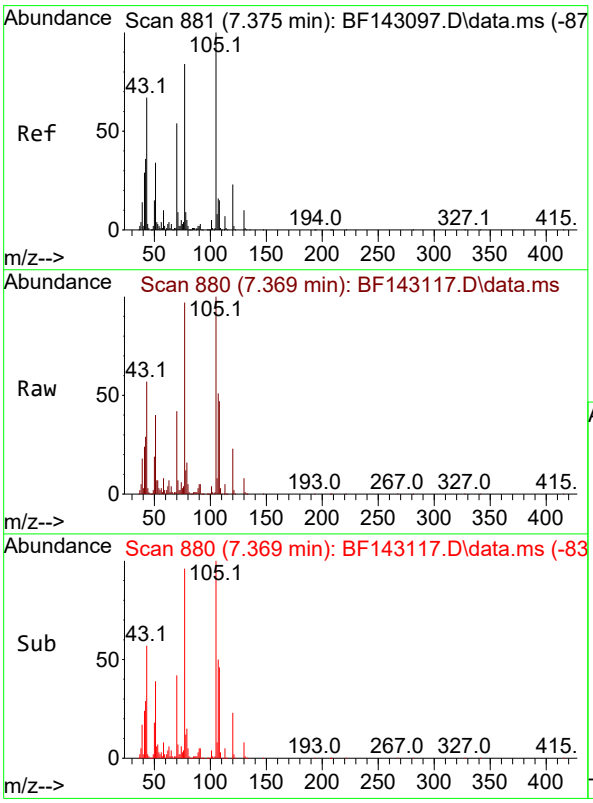
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.251 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 510164

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	9.9	8.3	12.5
68	6.4	5.3	7.9

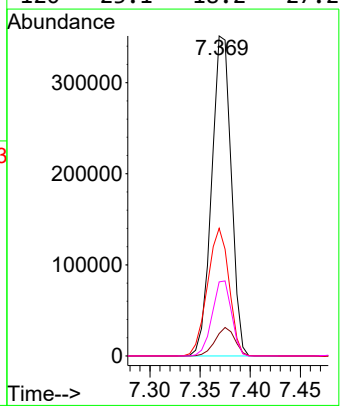


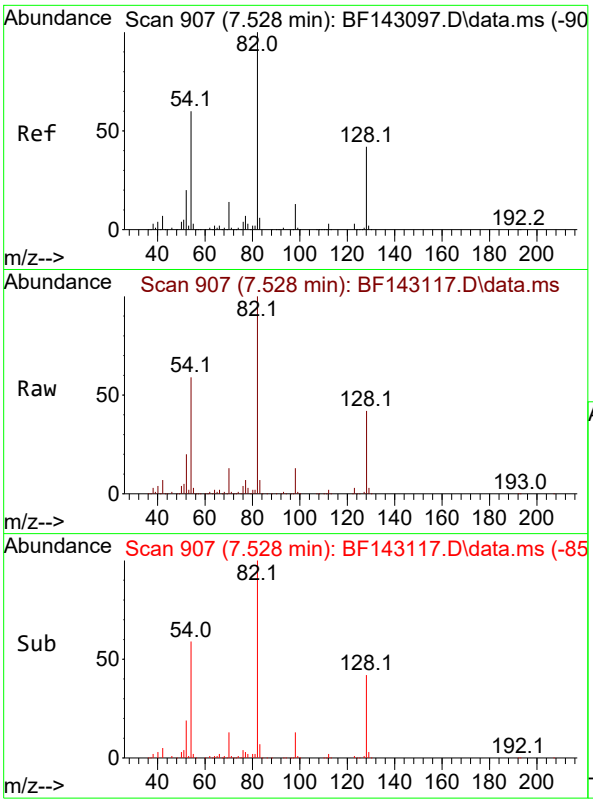


#22
Acetophenone
Concen: 38.753 ng
RT: 7.369 min Scan# 880
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:105 Resp: 476586

Ion	Ratio	Lower	Upper
105	100		
71	7.0	7.2	10.8#
51	39.9	27.0	40.4
120	23.1	18.2	27.2



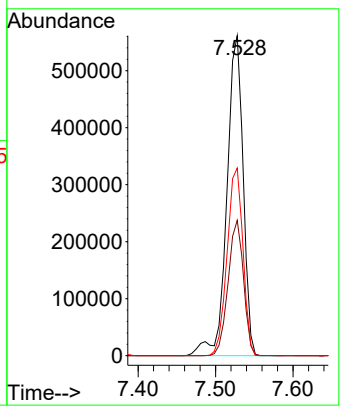


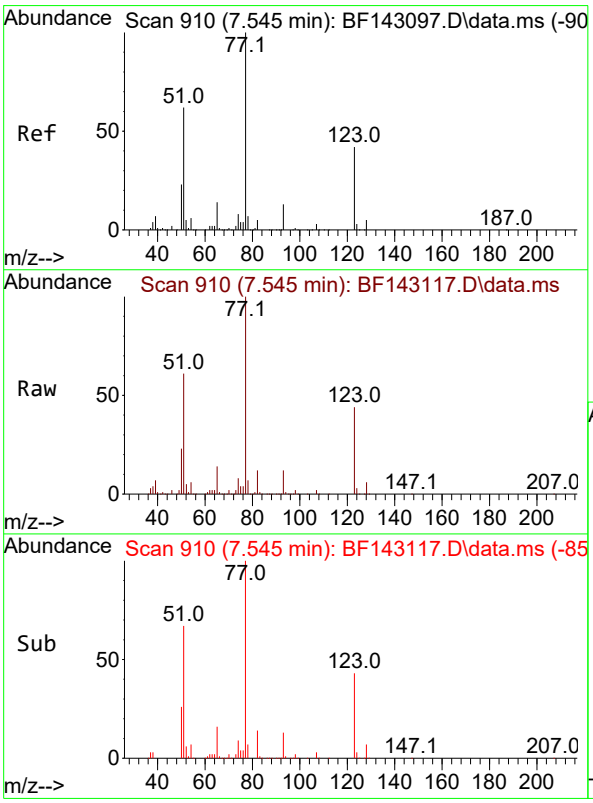
#23
Nitrobenzene-d5
Concen: 90.170 ng
RT: 7.528 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 820016

Ion	Ratio	Lower	Upper
82	100		
128	42.3	33.3	49.9
54	58.7	47.4	71.2

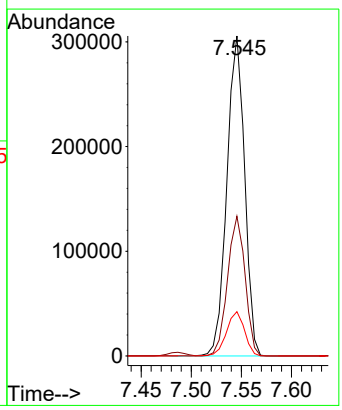


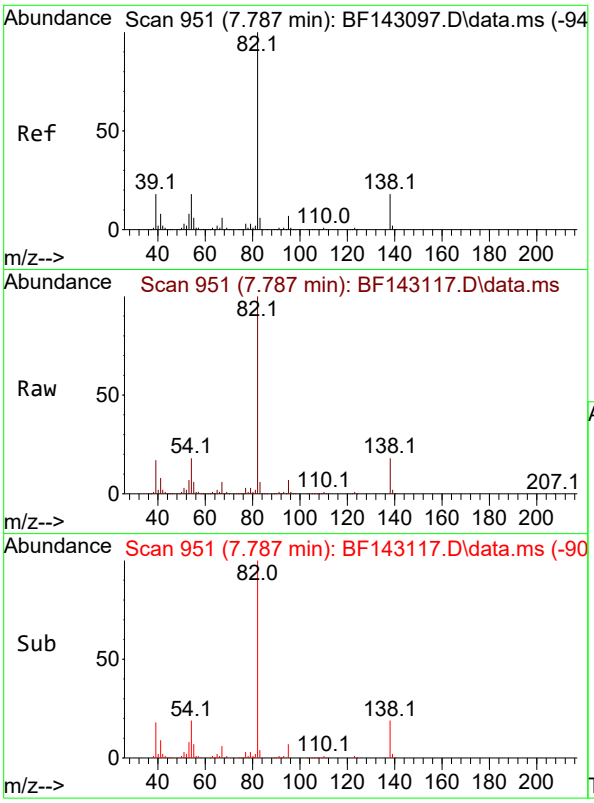


#24
Nitrobenzene
Concen: 42.874 ng
RT: 7.545 min Scan# 910
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 77 Resp: 376400

Ion	Ratio	Lower	Upper
77	100		
123	43.6	34.5	51.7
65	13.8	11.3	16.9



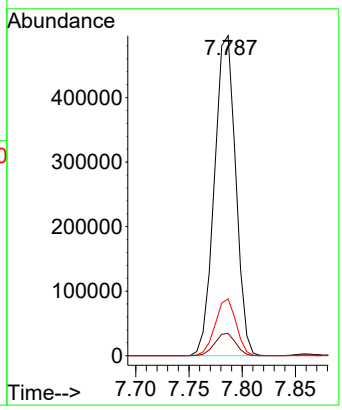


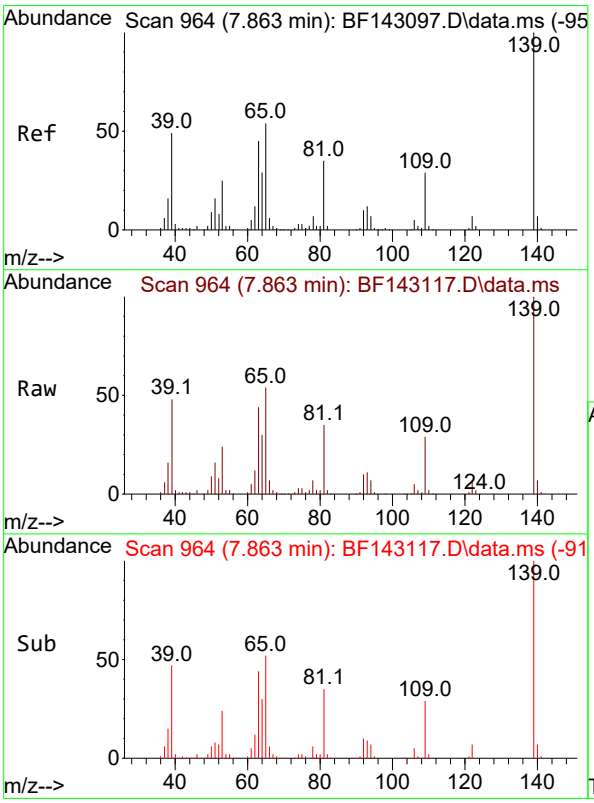
#25
Isophorone
Concen: 39.167 ng
RT: 7.787 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 688462

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.6	8.4
138	17.7	14.3	21.5

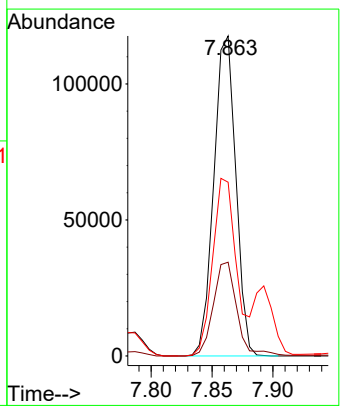


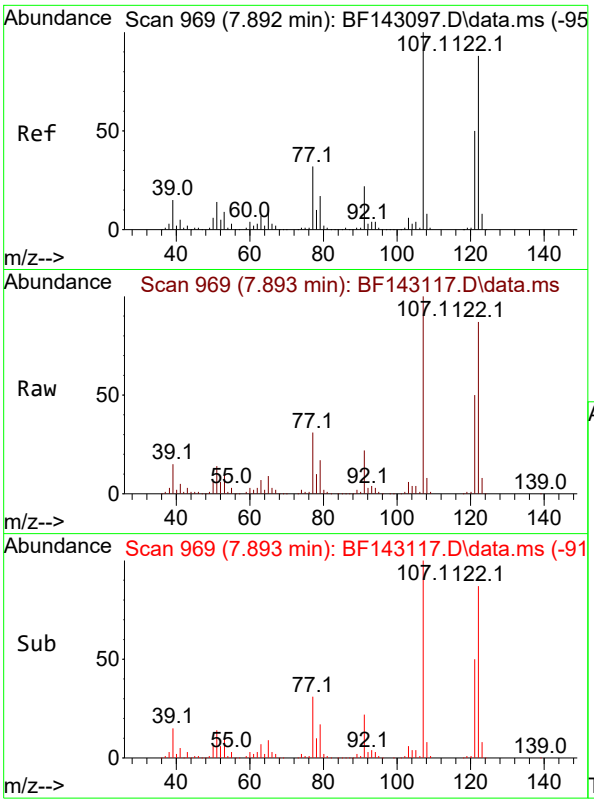


#26
2-Nitrophenol
Concen: 42.663 ng
RT: 7.863 min Scan# 964
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:139 Resp: 148006

Ion	Ratio	Lower	Upper
139	100		
109	29.3	23.4	35.0
65	54.3	43.4	65.2



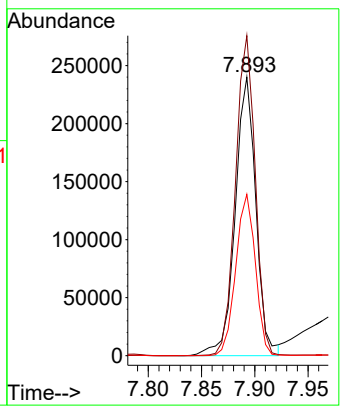


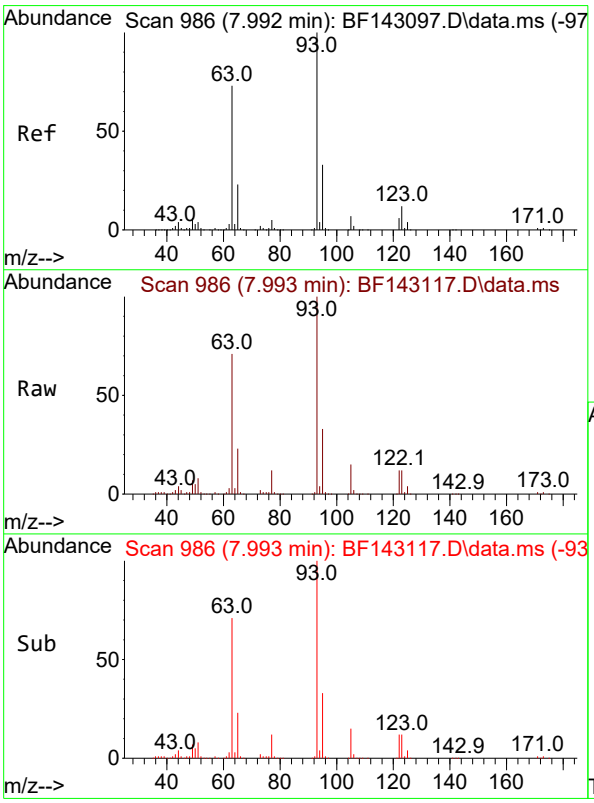
#27
2,4-Dimethylphenol
Concen: 39.965 ng
RT: 7.893 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 326049

Ion	Ratio	Lower	Upper
122	100		
107	114.8	91.3	136.9
121	57.9	45.5	68.3

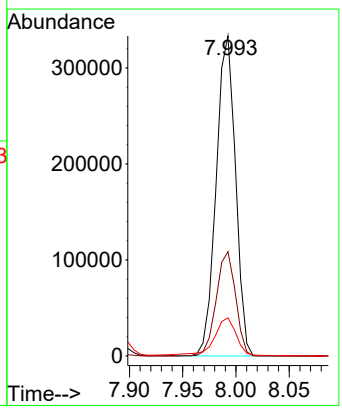


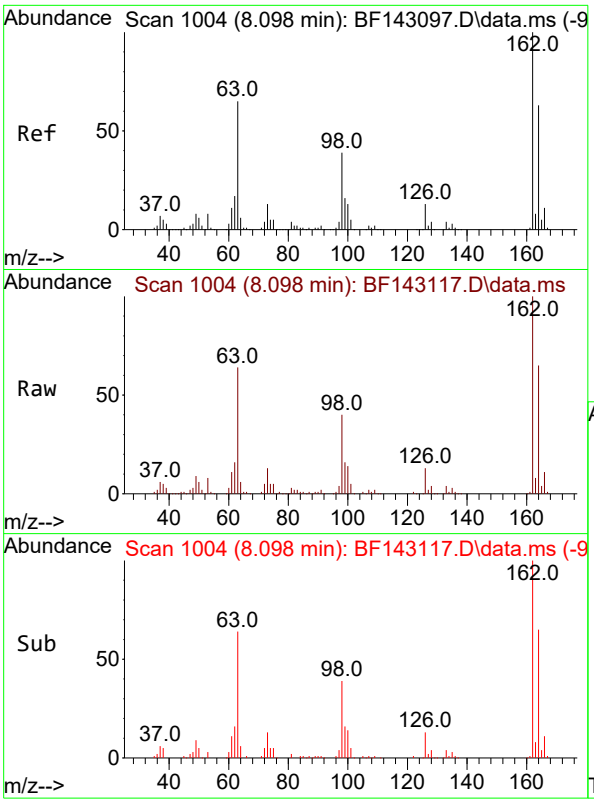


#28
bis(2-Chloroethoxy)methane
Concen: 39.412 ng
RT: 7.993 min Scan# 986
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 93 Resp: 420098

Ion	Ratio	Lower	Upper
93	100		
95	32.6	26.2	39.4
123	11.9	9.6	14.4



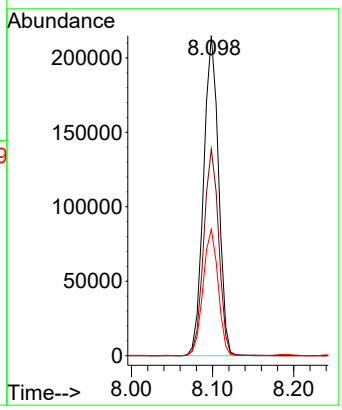


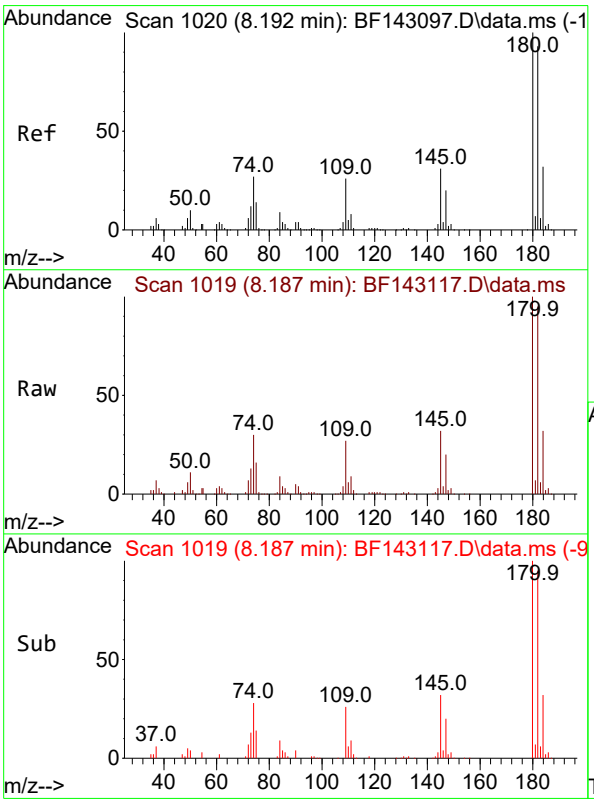
#29
2,4-Dichlorophenol
Concen: 41.164 ng
RT: 8.098 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 274747

Ion	Ratio	Lower	Upper
162	100		
164	64.6	43.1	83.1
98	39.5	19.2	59.2

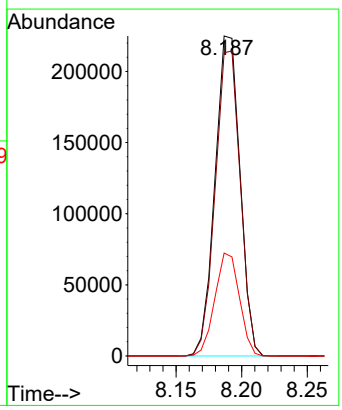


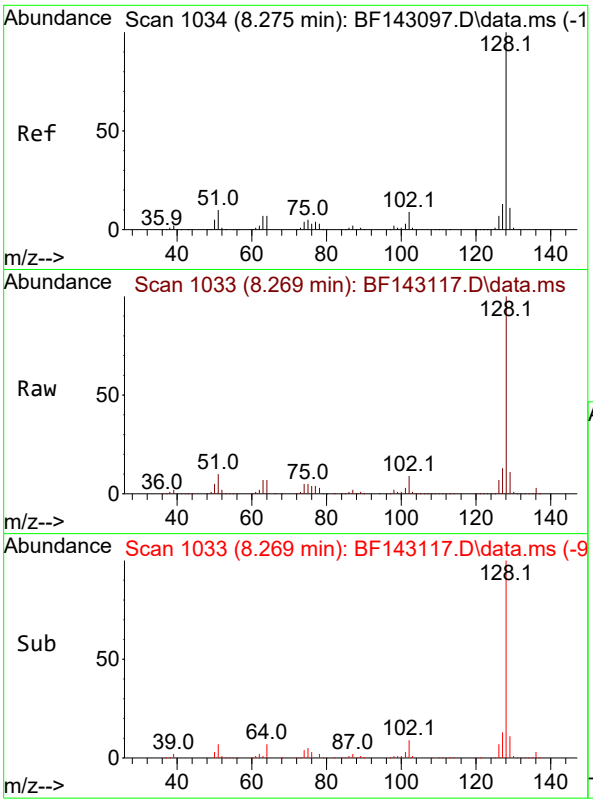


#30
1,2,4-Trichlorobenzene
Concen: 39.339 ng
RT: 8.187 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:180 Resp: 297978

Ion	Ratio	Lower	Upper
180	100		
182	94.8	74.7	112.1
145	32.1	24.5	36.7



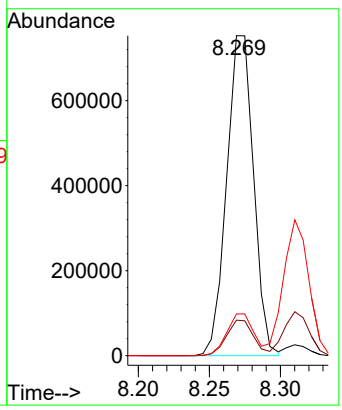


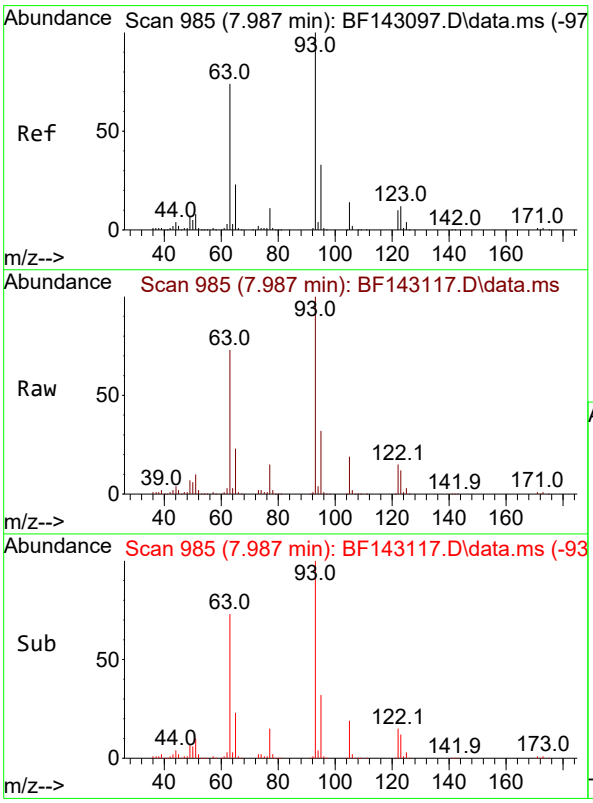
#31
Naphthalene
Concen: 39.140 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 991571

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.0	13.4
127	13.1	10.5	15.7

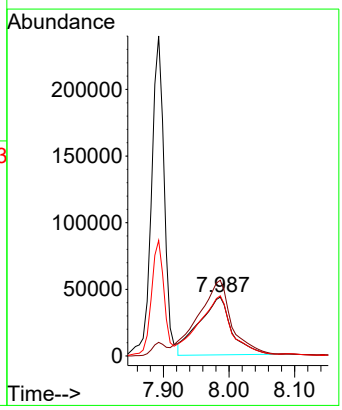


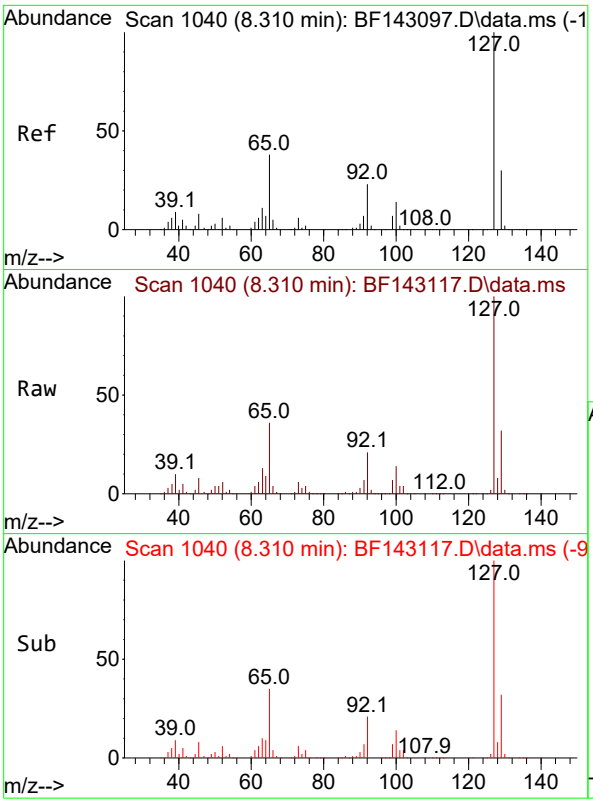


#32
Benzoic acid
Concen: 38.466 ng
RT: 7.987 min Scan# 985
Delta R.T. -0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:122 Resp: 150277

Ion	Ratio	Lower	Upper
122	100		
105	128.6	105.4	145.4
77	102.1	78.6	118.6



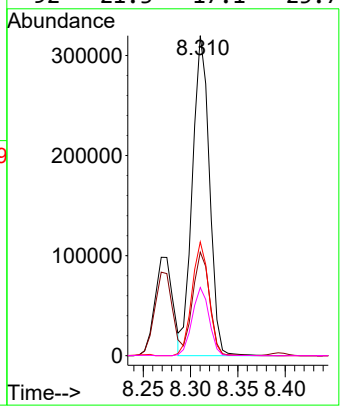


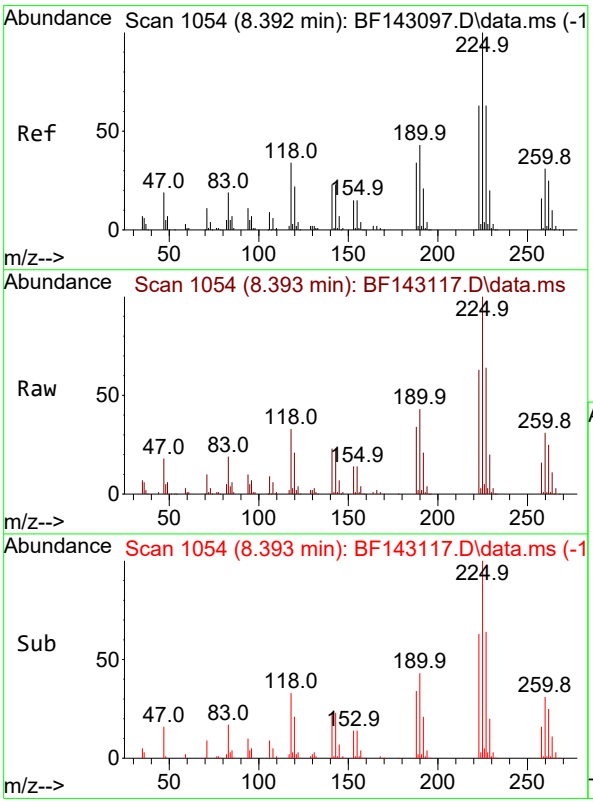
#33
4-Chloroaniline
Concen: 39.377 ng
RT: 8.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 401159

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.2	39.4
65	35.5	28.6	42.8
92	21.3	17.1	25.7

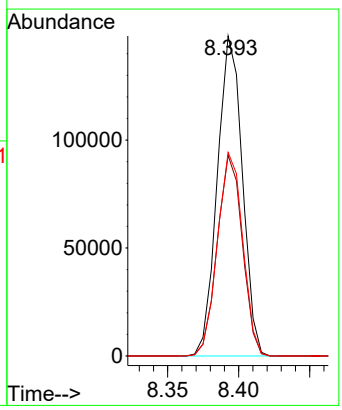


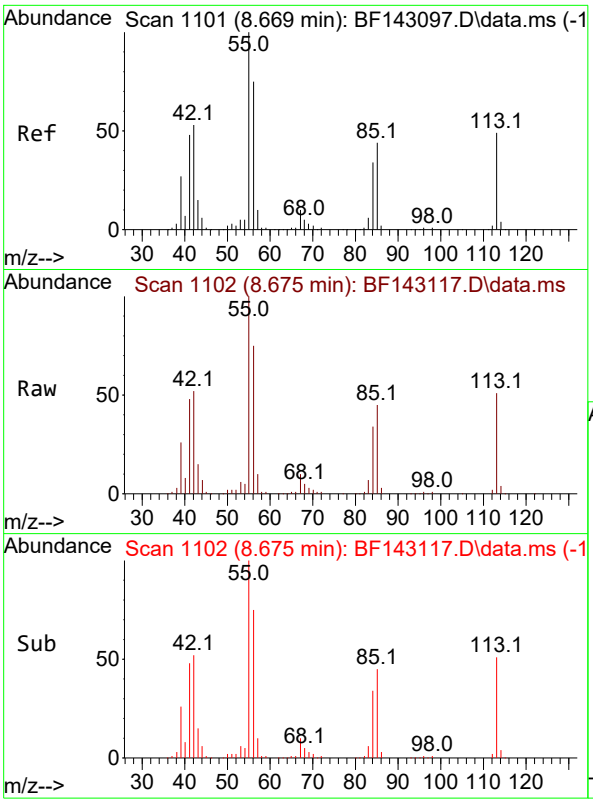


#34
Hexachlorobutadiene
Concen: 40.072 ng
RT: 8.393 min Scan# 1054
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:225 Resp: 181527

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.3	75.5
227	63.6	50.1	75.1



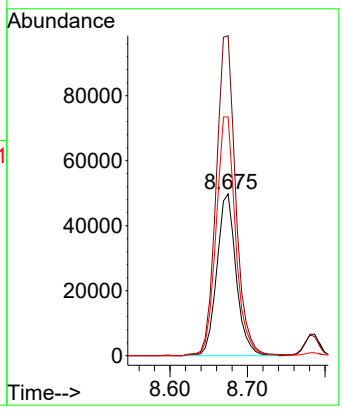


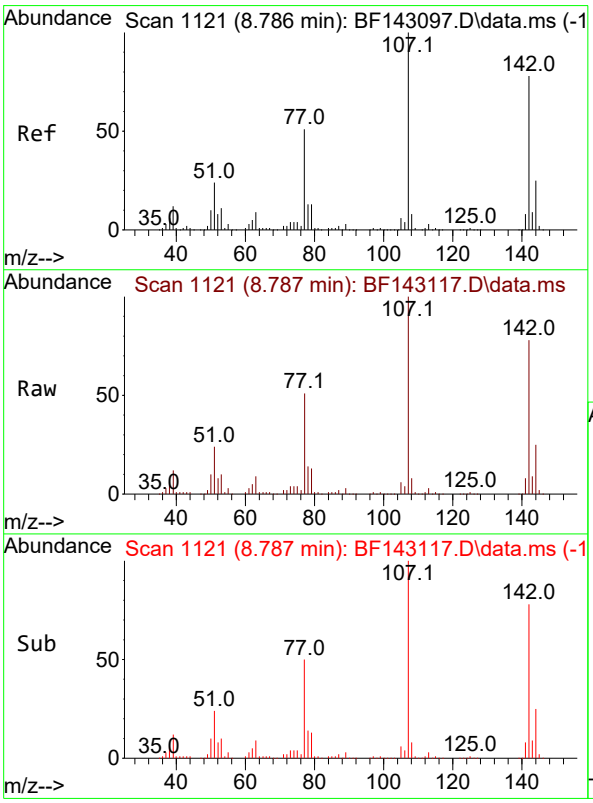
#35
Caprolactam
Concen: 41.190 ng
RT: 8.675 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 85847

Ion	Ratio	Lower	Upper
113	100		
55	197.8	186.2	226.2
56	147.6	134.1	174.1

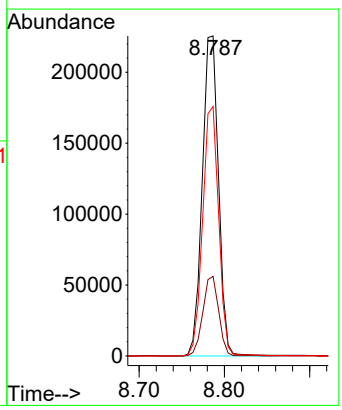


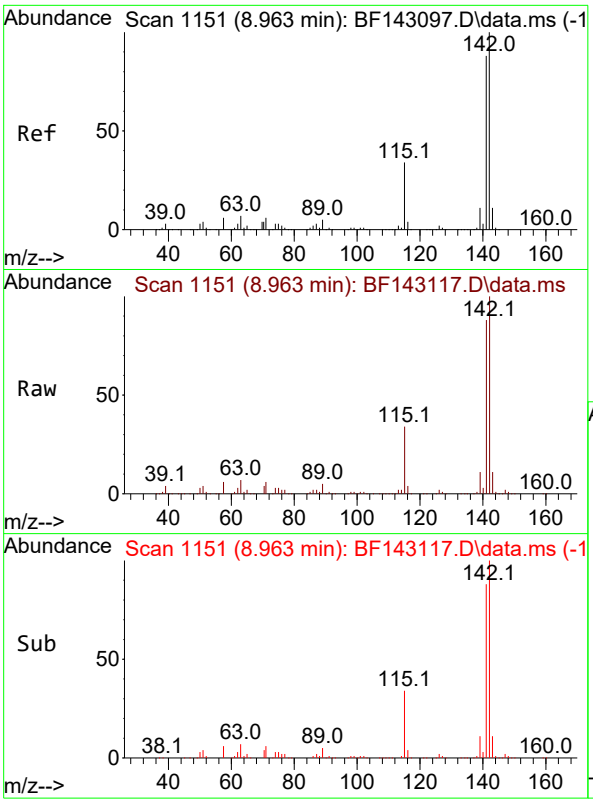


#36
4-Chloro-3-methylphenol
Concen: 40.192 ng
RT: 8.787 min Scan# 1121
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:107 Resp: 298817

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.2	30.2
142	77.9	62.4	93.6



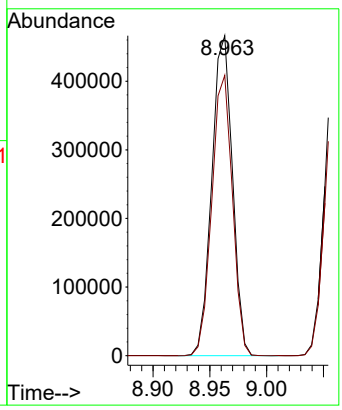


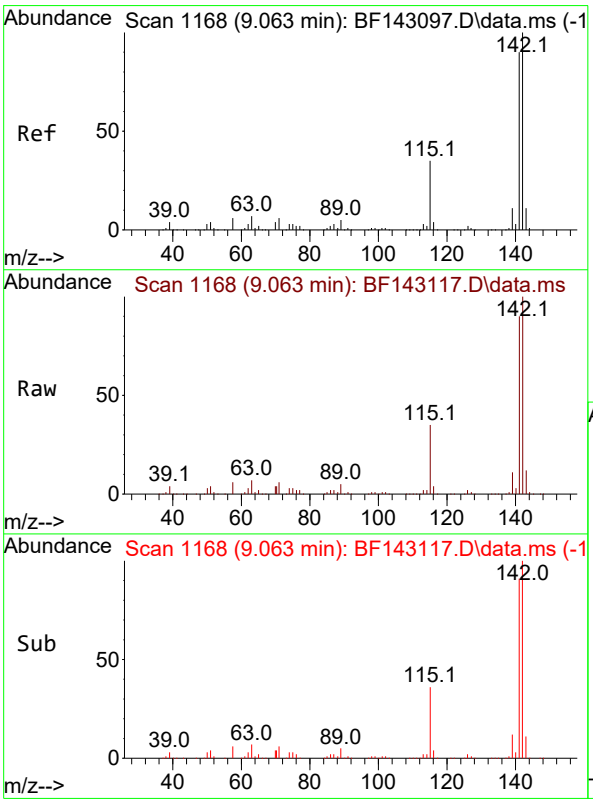
#37
2-Methylnaphthalene
Concen: 39.014 ng
RT: 8.963 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 589636

Ion	Ratio	Lower	Upper
142	100		
141	87.6	70.2	105.2

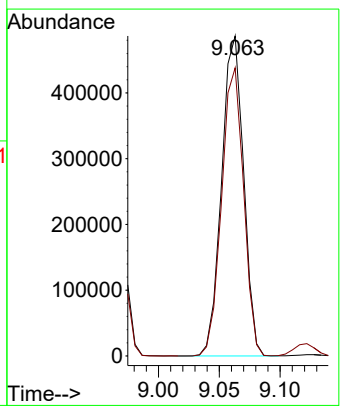


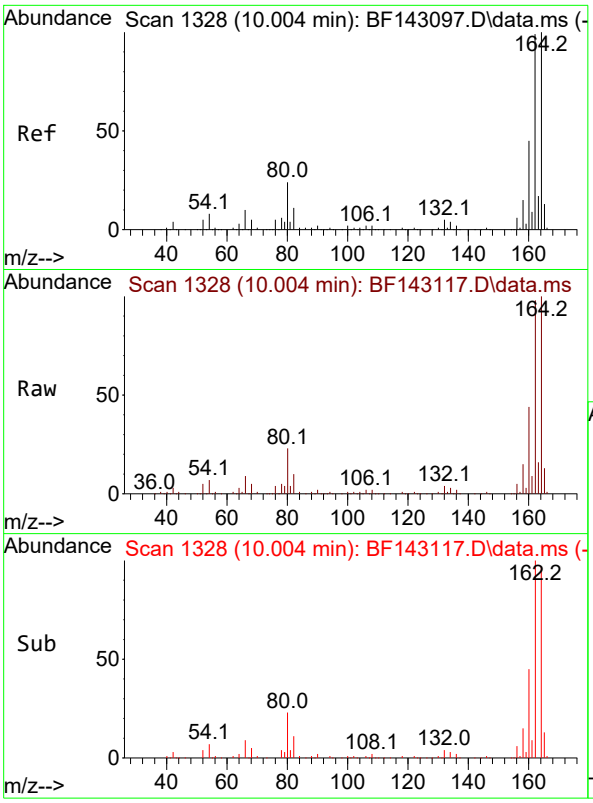


#38
1-Methylnaphthalene
Concen: 38.976 ng
RT: 9.063 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:142 Resp: 610968

Ion	Ratio	Lower	Upper
142	100		
141	90.0	72.2	108.4



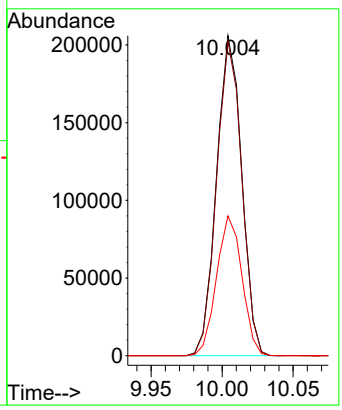


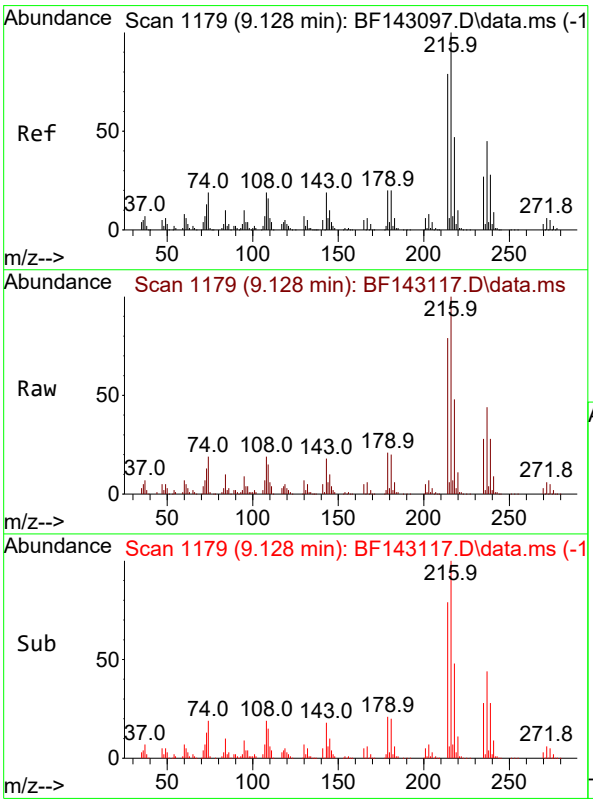
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 254065

Ion	Ratio	Lower	Upper
164	100		
162	98.2	79.0	118.6
160	43.7	35.8	53.6

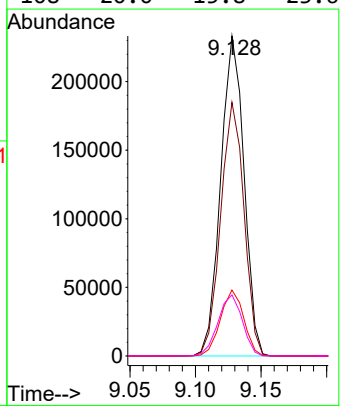


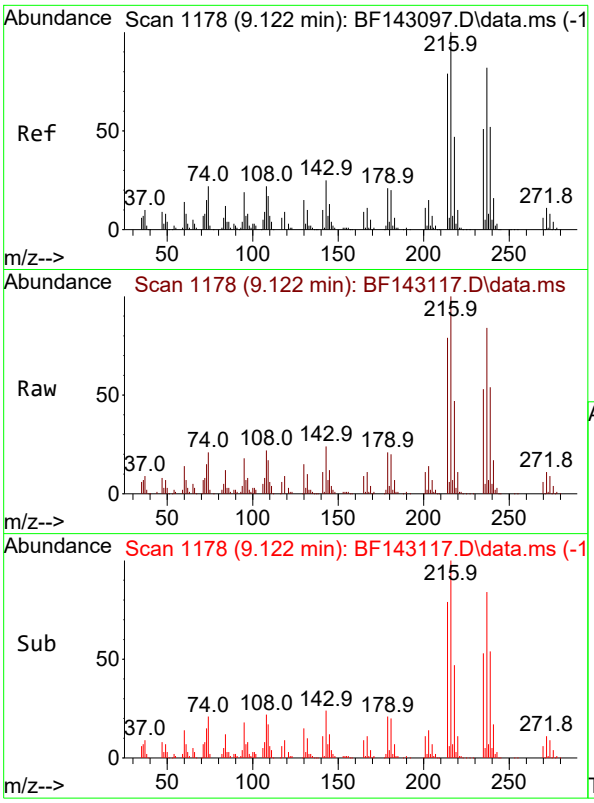


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.885 ng
RT: 9.128 min Scan# 1179
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:216 Resp: 287903

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.6	94.0
179	20.6	16.2	24.2
108	20.0	15.8	23.6



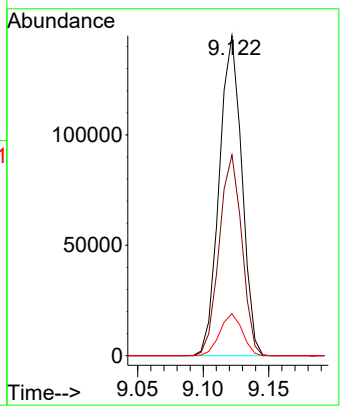


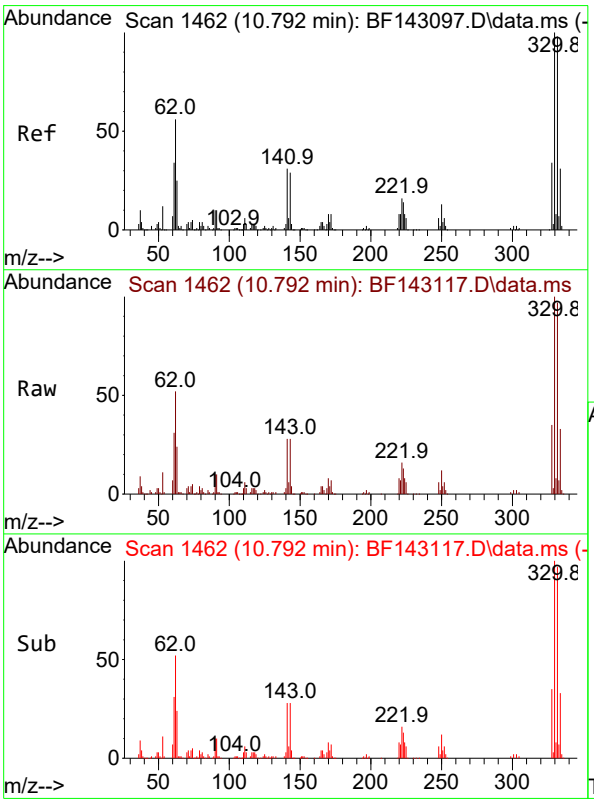
#41
Hexachlorocyclopentadiene
Concen: 42.225 ng
RT: 9.122 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 173333

Ion	Ratio	Lower	Upper
237	100		
235	62.7	41.6	81.6
272	13.1	0.0	32.9

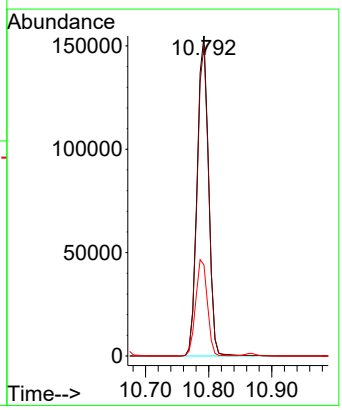


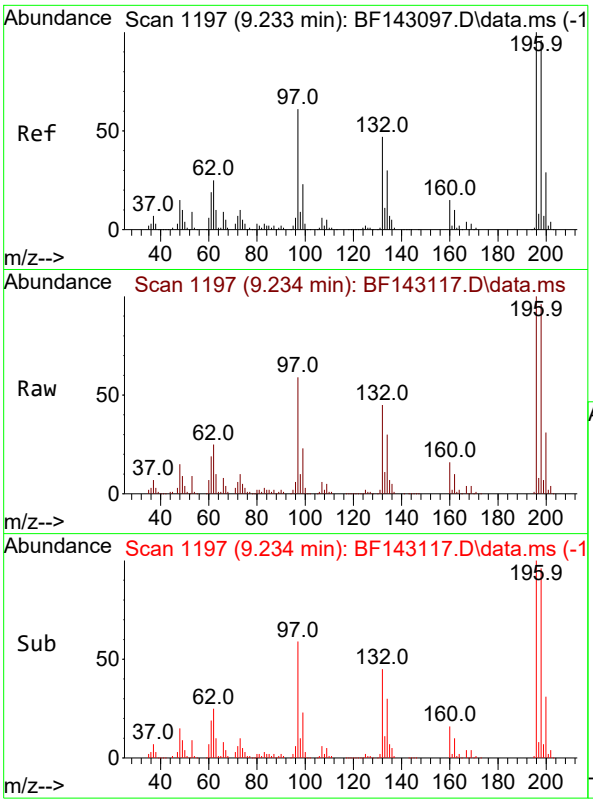


#42
2,4,6-Tribromophenol
Concen: 85.634 ng
RT: 10.792 min Scan# 1462
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:330 Resp: 193992

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.9	116.9
141	30.8	25.9	38.9



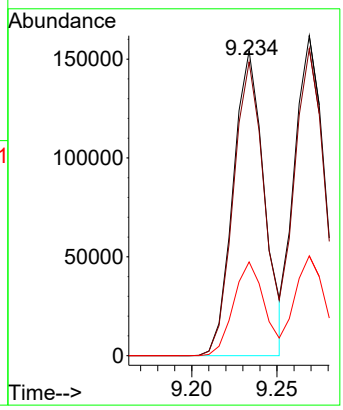


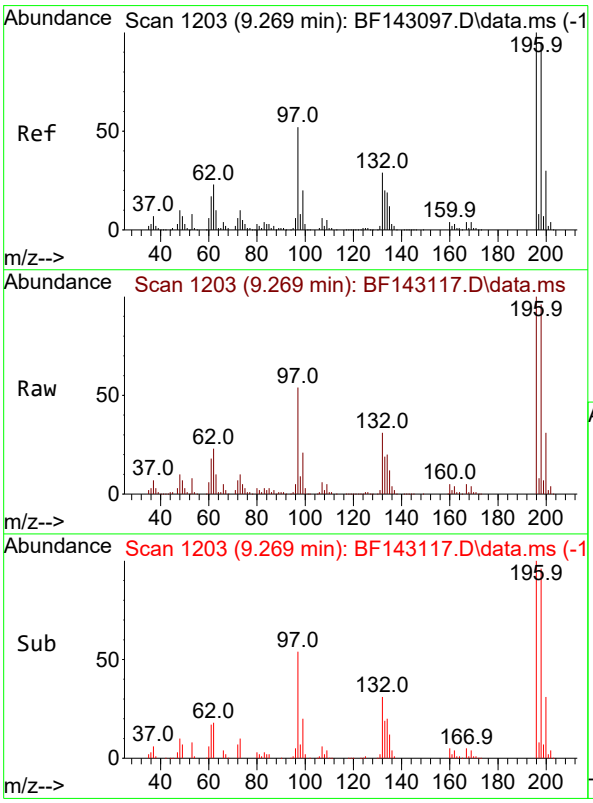
#43
2,4,6-Trichlorophenol
Concen: 42.600 ng
RT: 9.234 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 195982

Ion	Ratio	Lower	Upper
196	100		
198	96.3	76.9	115.3
200	30.7	23.5	35.3

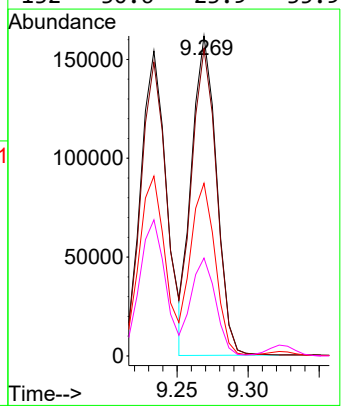


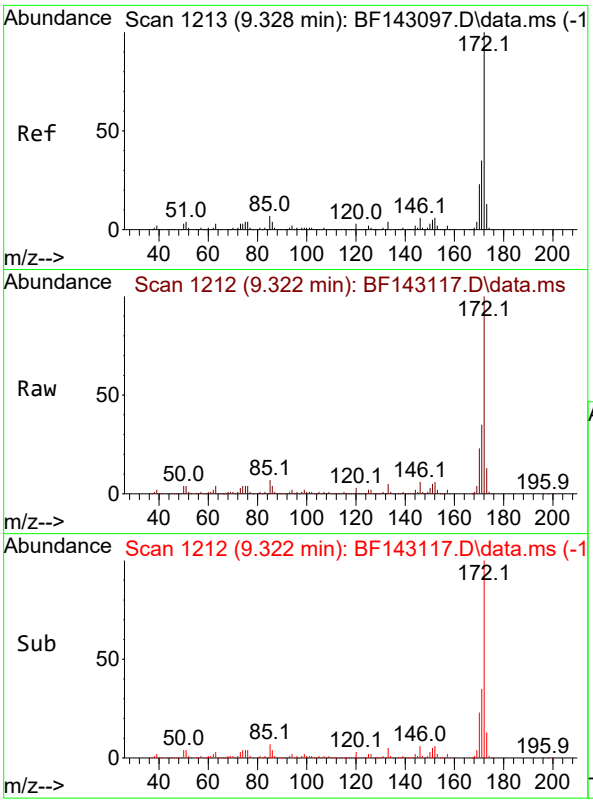


#44
2,4,5-Trichlorophenol
Concen: 40.747 ng
RT: 9.269 min Scan# 1203
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:196 Resp: 196557

Ion	Ratio	Lower	Upper
196	100		
198	95.9	76.4	114.6
97	53.9	42.4	63.6
132	30.6	23.9	35.9



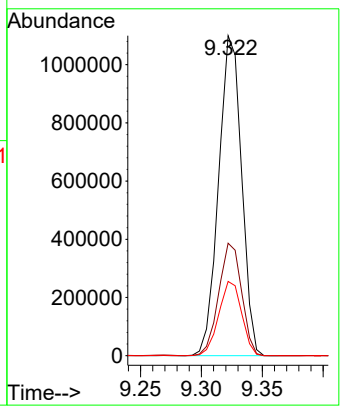


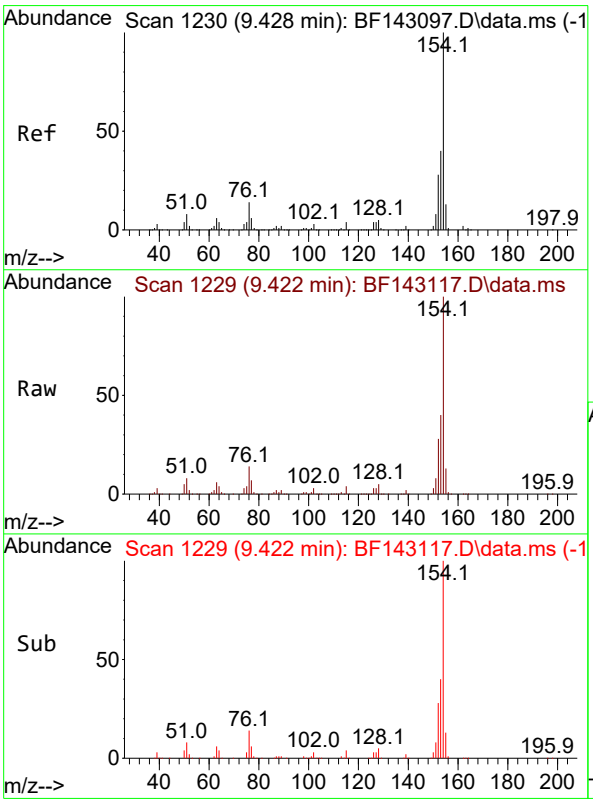
#45
2-Fluorobiphenyl
Concen: 75.570 ng
RT: 9.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1444367

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.2	42.4
170	23.2	18.6	28.0

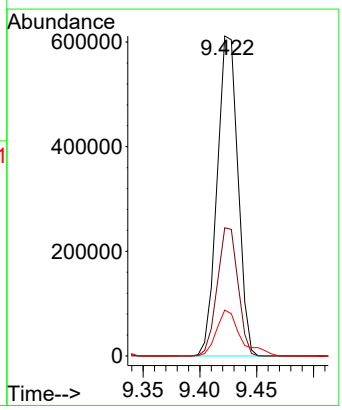


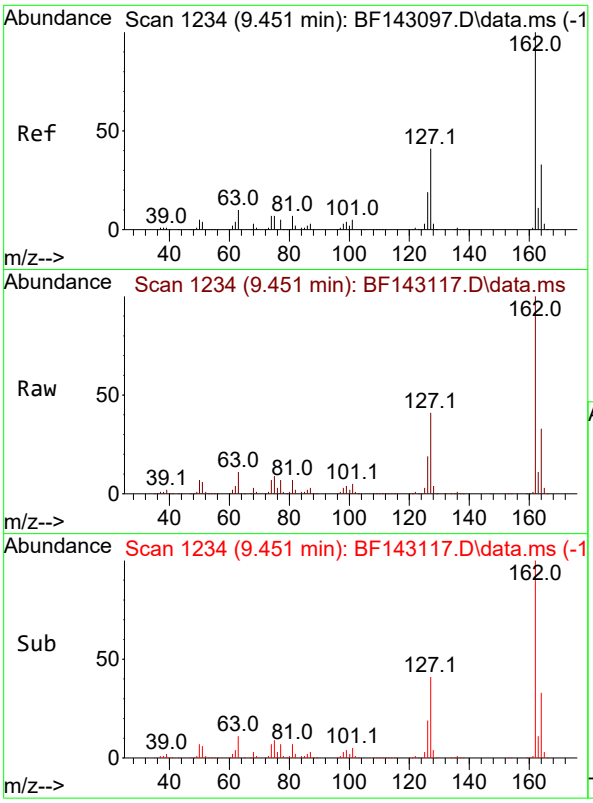


#46
1,1'-Biphenyl
Concen: 38.466 ng
RT: 9.422 min Scan# 1229
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:154 Resp: 779366

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.1	60.1
76	14.3	0.0	33.7



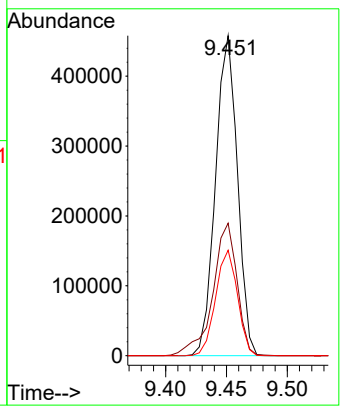


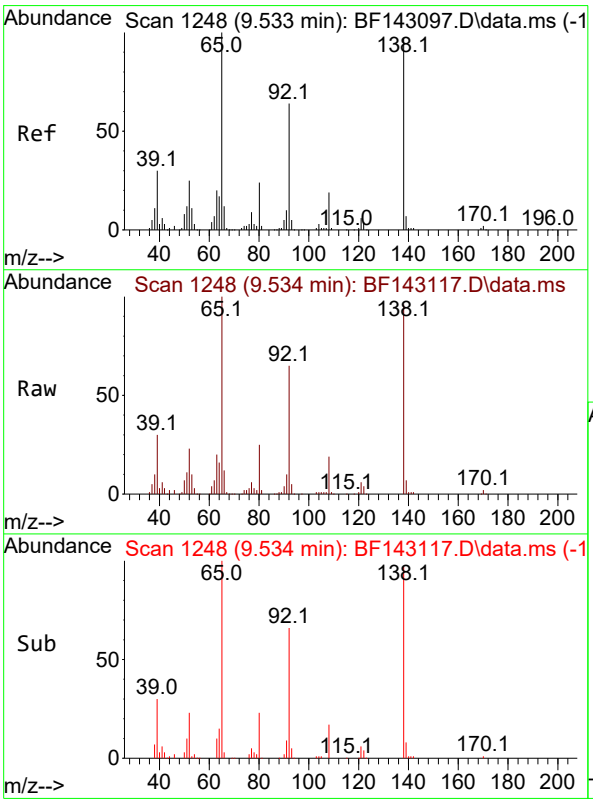
#47
2-Chloronaphthalene
Concen: 38.546 ng
RT: 9.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 573731

Ion	Ratio	Lower	Upper
162	100		
127	41.4	33.0	49.6
164	32.9	26.1	39.1

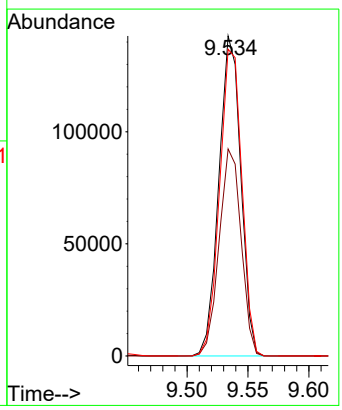


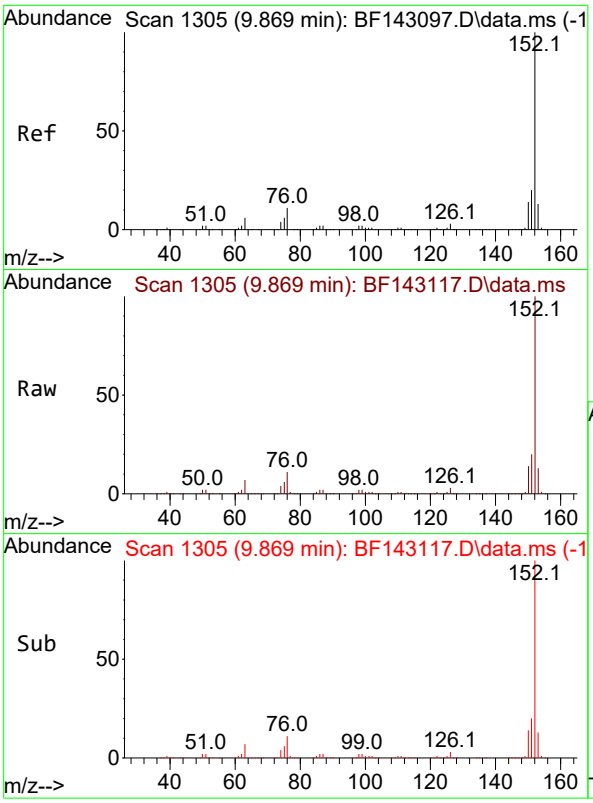


#48
2-Nitroaniline
Concen: 40.710 ng
RT: 9.534 min Scan# 1248
Delta R.T. 0.001 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion: 65 Resp: 178618

Ion	Ratio	Lower	Upper
65	100		
92	64.7	51.3	76.9
138	95.9	77.8	116.6



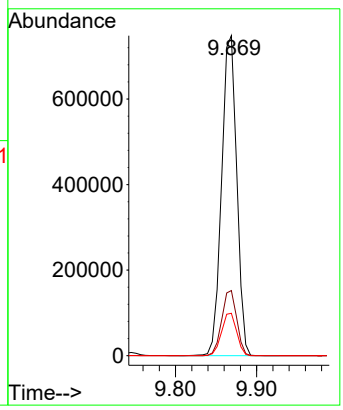


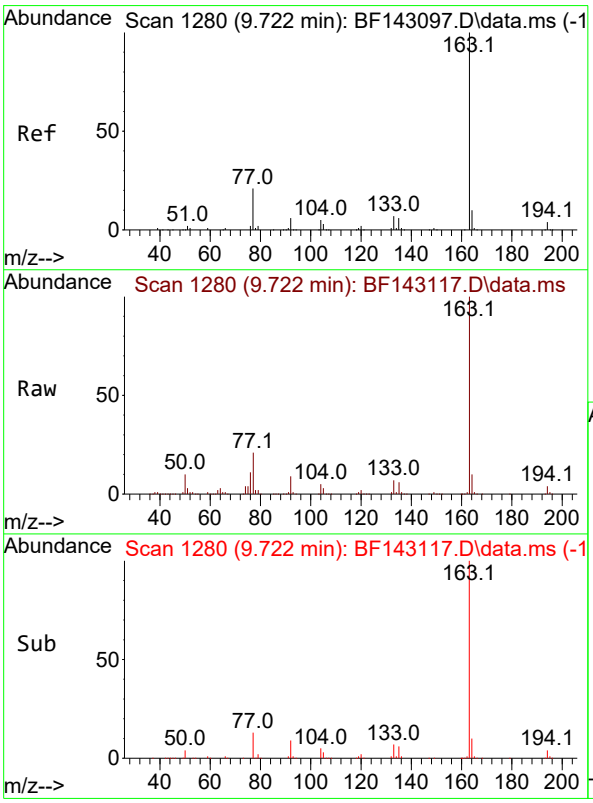
#49
Acenaphthylene
Concen: 39.176 ng
RT: 9.869 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 971647

Ion	Ratio	Lower	Upper
152	100		
151	20.3	15.8	23.8
153	13.3	10.4	15.6

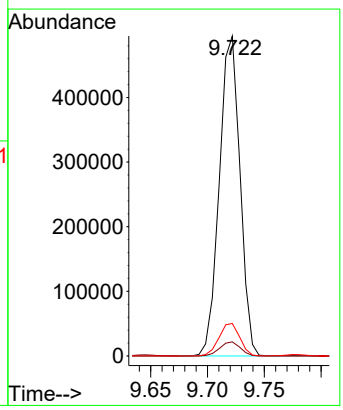


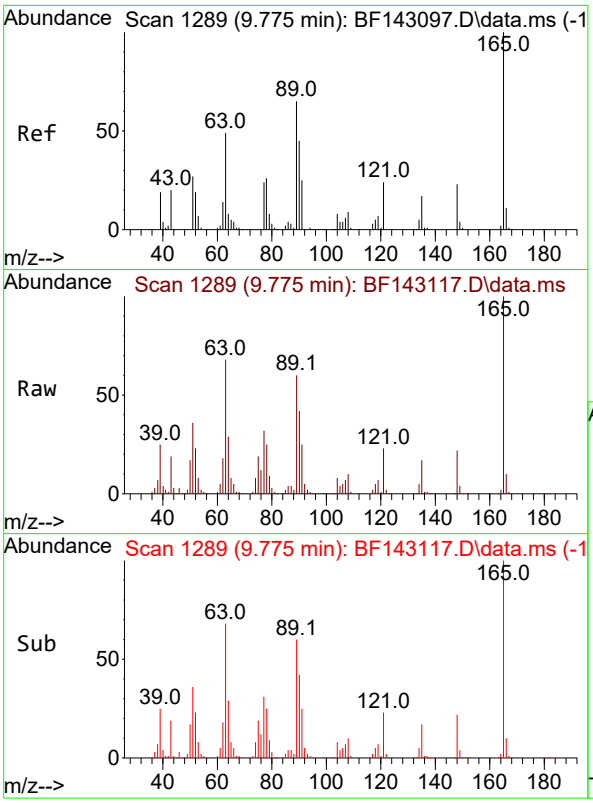


#50
Dimethylphthalate
Concen: 39.291 ng
RT: 9.722 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:163 Resp: 628010

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.2	8.2	12.2



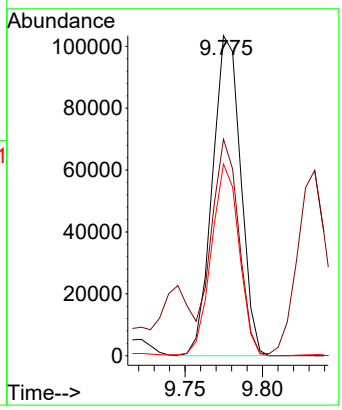


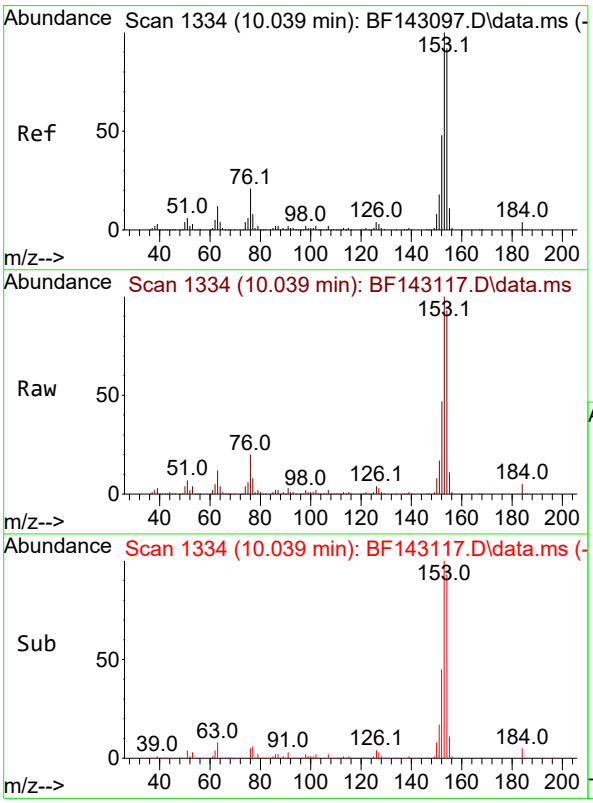
#51
2,6-Dinitrotoluene
Concen: 41.829 ng
RT: 9.775 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 130906

Ion	Ratio	Lower	Upper
165	100		
63	67.7	57.4	86.0
89	59.9	51.8	77.8

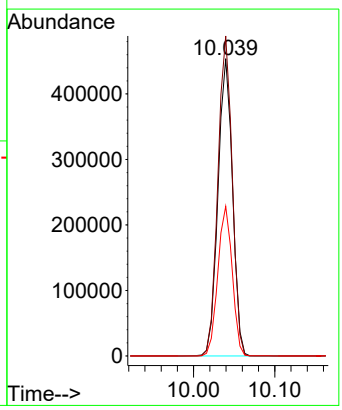


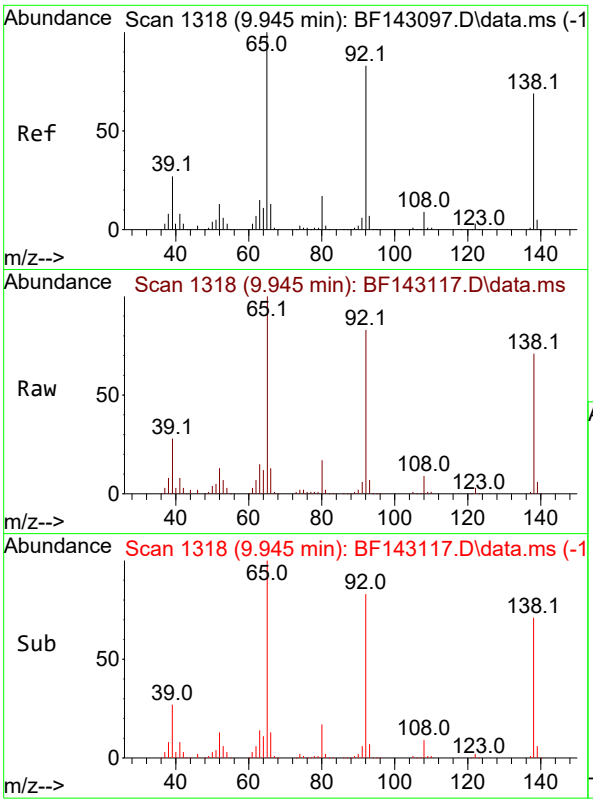


#52
Acenaphthene
Concen: 38.701 ng
RT: 10.039 min Scan# 1334
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:154 Resp: 566434

Ion	Ratio	Lower	Upper
154	100		
153	107.6	86.7	130.1
152	50.3	41.4	62.2



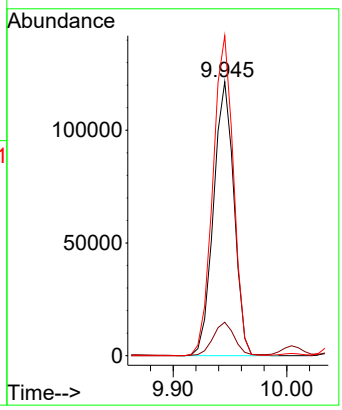


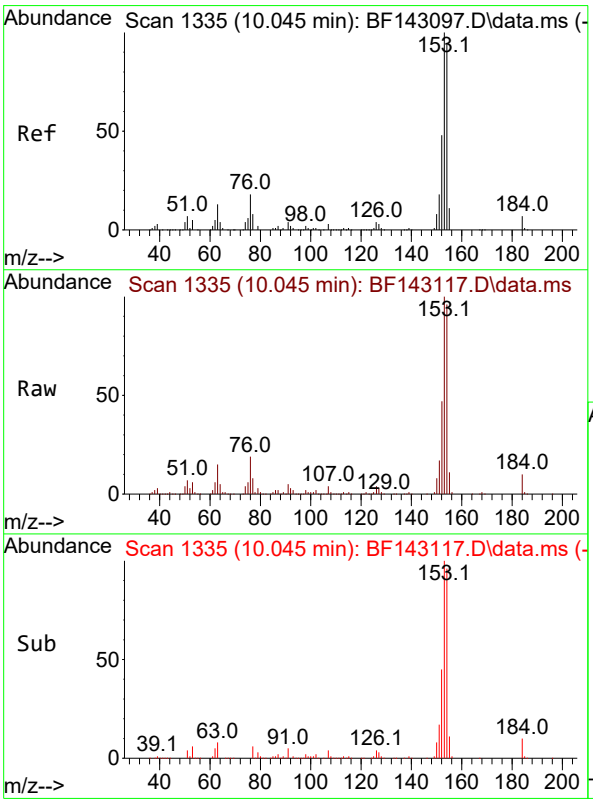
#53
3-Nitroaniline
Concen: 43.942 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 151765

Ion	Ratio	Lower	Upper
138	100		
108	12.2	10.1	15.1
92	116.8	96.4	144.6

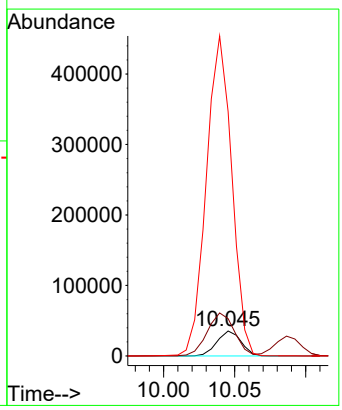


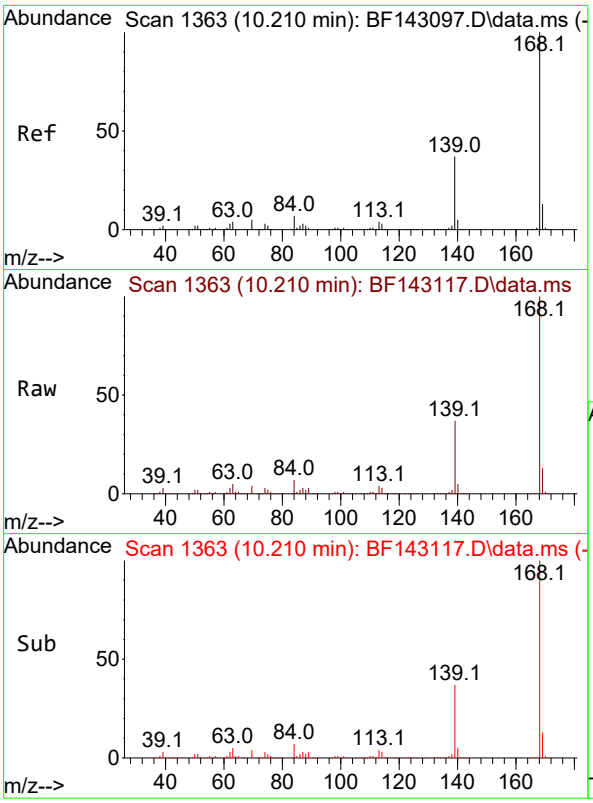


#54
2,4-Dinitrophenol
Concen: 42.980 ng
RT: 10.045 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:184 Resp: 41904

Ion	Ratio	Lower	Upper
184	100		
63	149.9	149.3	223.9
154	980.5	1048.0	1572.0#



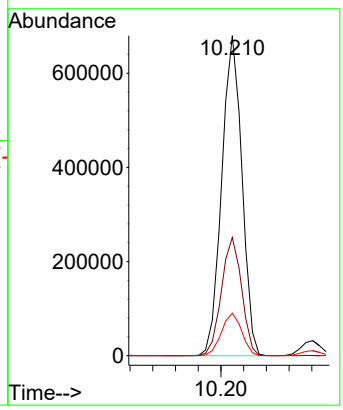


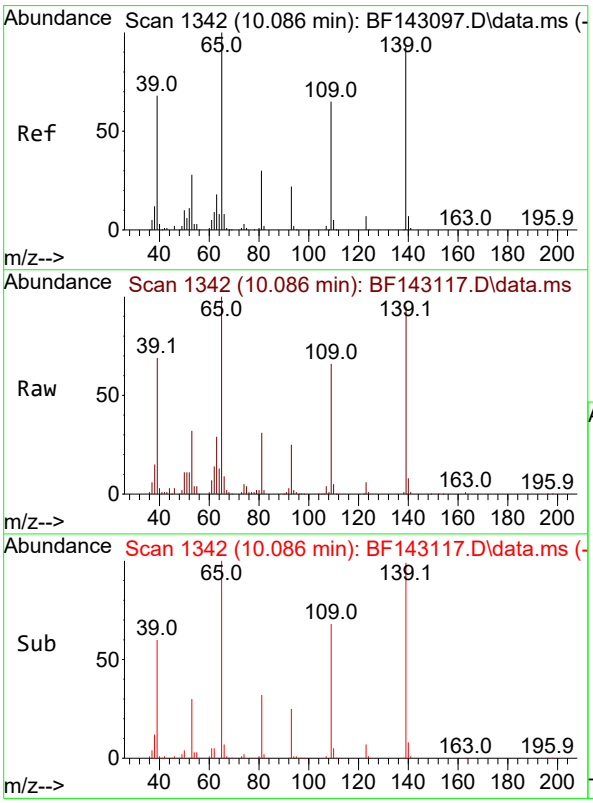
#55
Dibenzofuran
Concen: 38.413 ng
RT: 10.210 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 838011

Ion	Ratio	Lower	Upper
168	100		
139	37.0	29.8	44.6
169	13.3	10.8	16.2

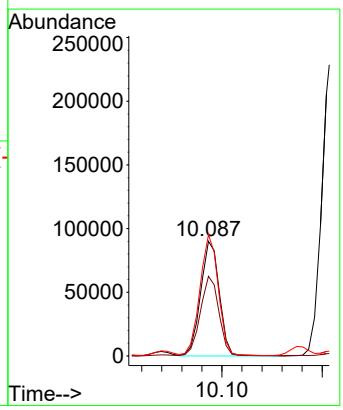


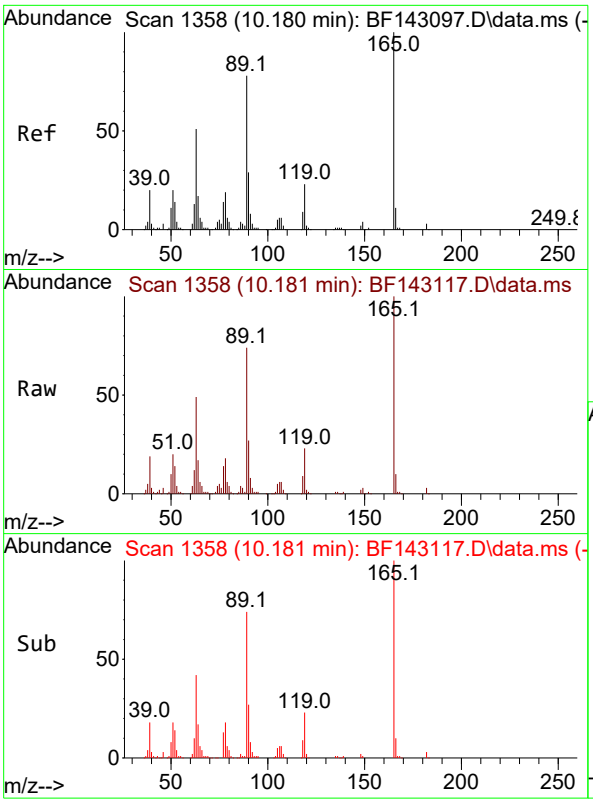


#56
4-Nitrophenol
Concen: 42.650 ng
RT: 10.086 min Scan# 1342
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:139 Resp: 117068

Ion	Ratio	Lower	Upper
139	100		
109	69.5	49.4	89.4
65	105.7	88.2	128.2



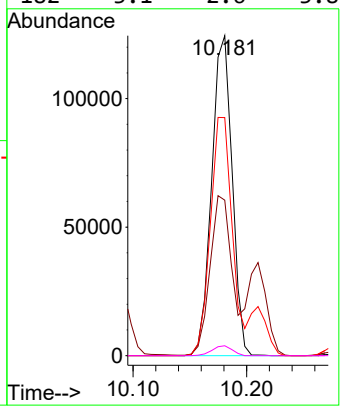


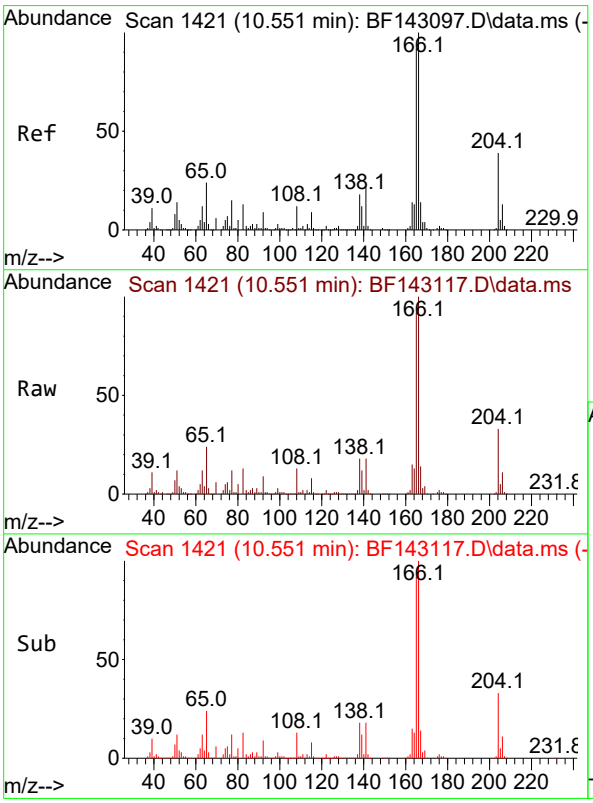
#57
2,4-Dinitrotoluene
Concen: 40.106 ng
RT: 10.181 min Scan# 1
Delta R.T. 0.001 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 155813

Ion	Ratio	Lower	Upper
165	100		
63	48.6	40.6	61.0
89	74.4	62.3	93.5
182	3.1	2.6	3.8

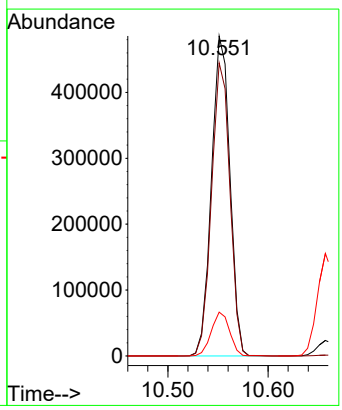


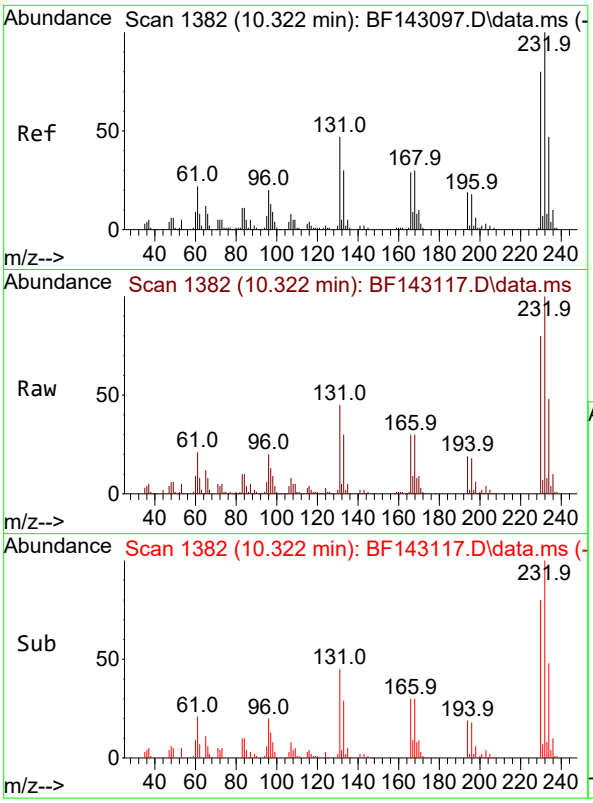


#58
Fluorene
Concen: 37.875 ng
RT: 10.551 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:166 Resp: 619482

Ion	Ratio	Lower	Upper
166	100		
165	91.6	73.7	110.5
167	13.7	10.9	16.3



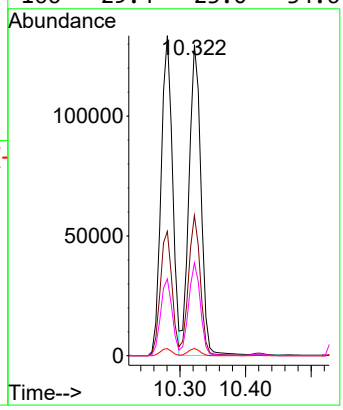


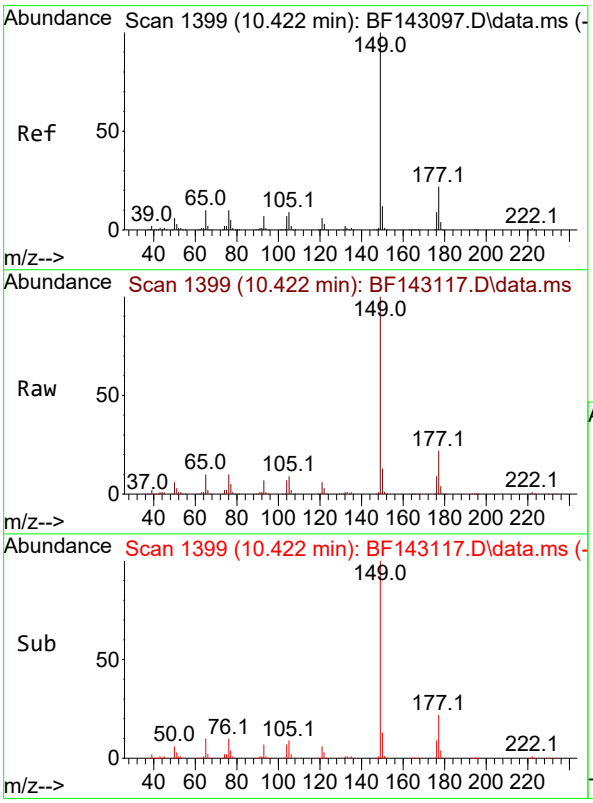
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.914 ng
RT: 10.322 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 164509

Ion	Ratio	Lower	Upper
232	100		
131	44.1	36.9	55.3
130	2.3	1.8	2.8
166	29.4	23.0	34.6

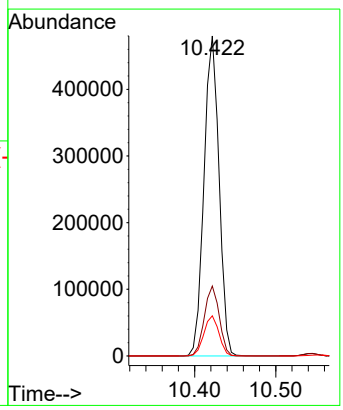


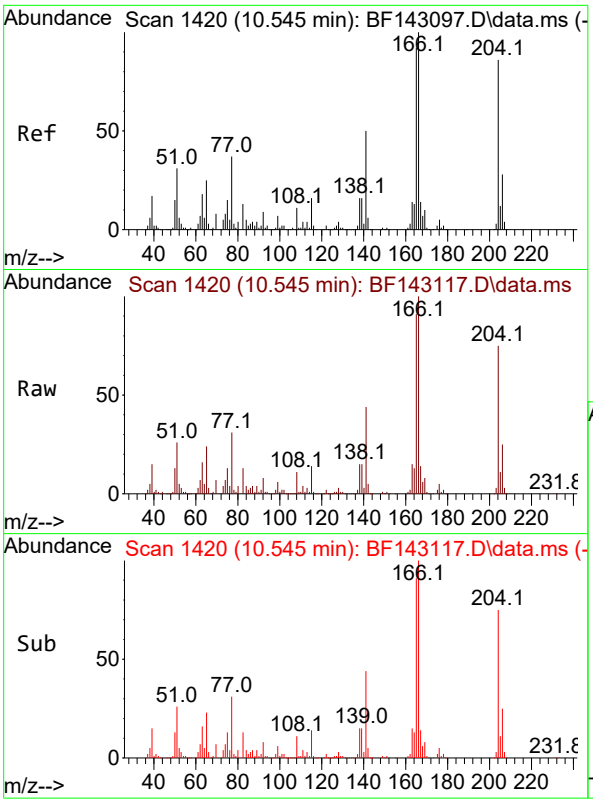


#60
Diethylphthalate
Concen: 39.920 ng
RT: 10.422 min Scan# 1399
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:149 Resp: 615586

Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.3	25.9
150	12.6	9.9	14.9



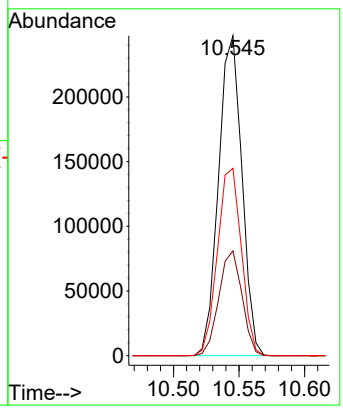


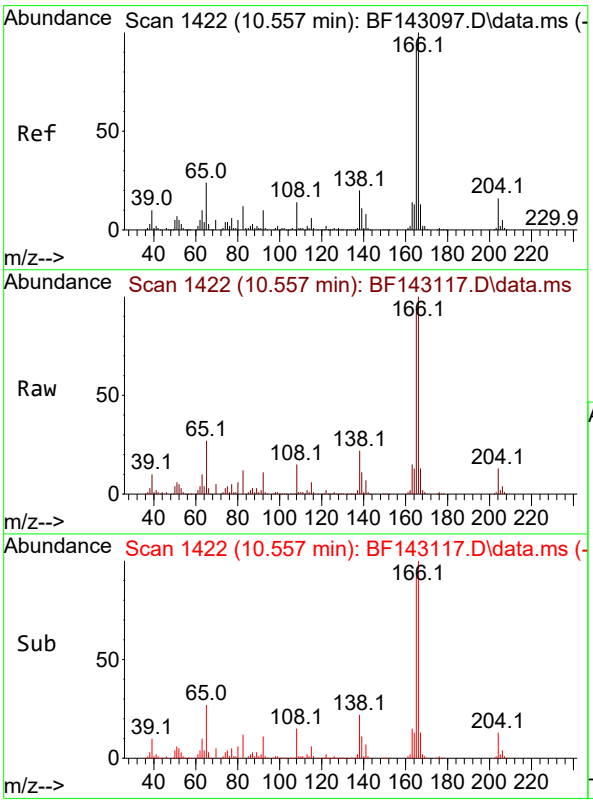
#61
4-Chlorophenyl-phenylether
Concen: 39.072 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 306293

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.8	38.6
141	58.6	46.8	70.2

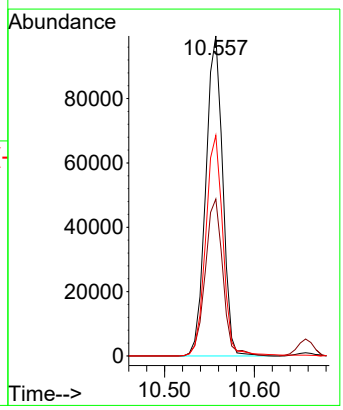


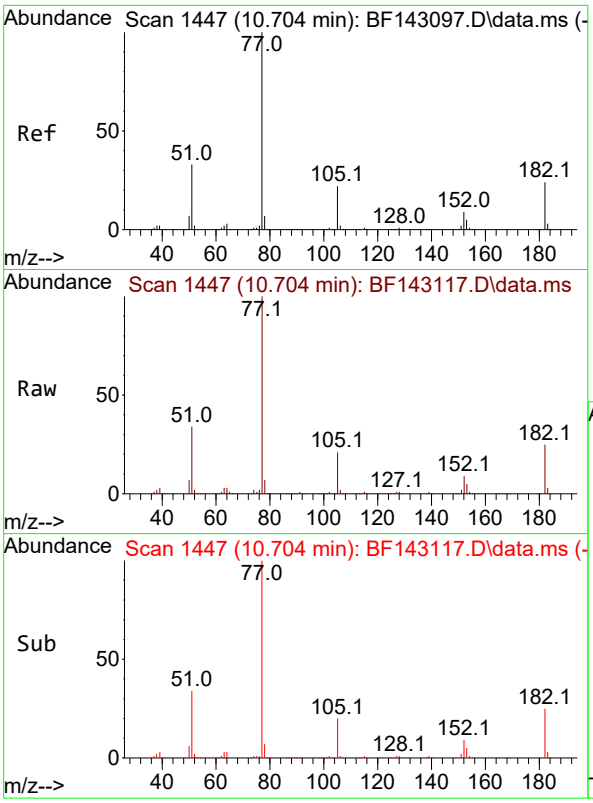


#62
4-Nitroaniline
Concen: 43.204 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:138 Resp: 129761

Ion	Ratio	Lower	Upper
138	100		
92	49.1	30.4	70.4
108	68.9	49.5	89.5



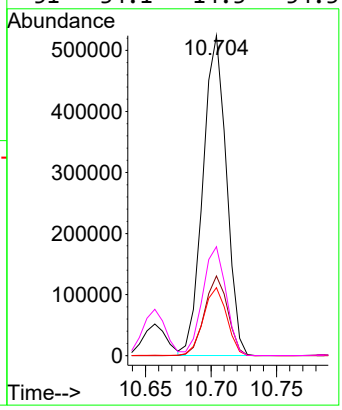


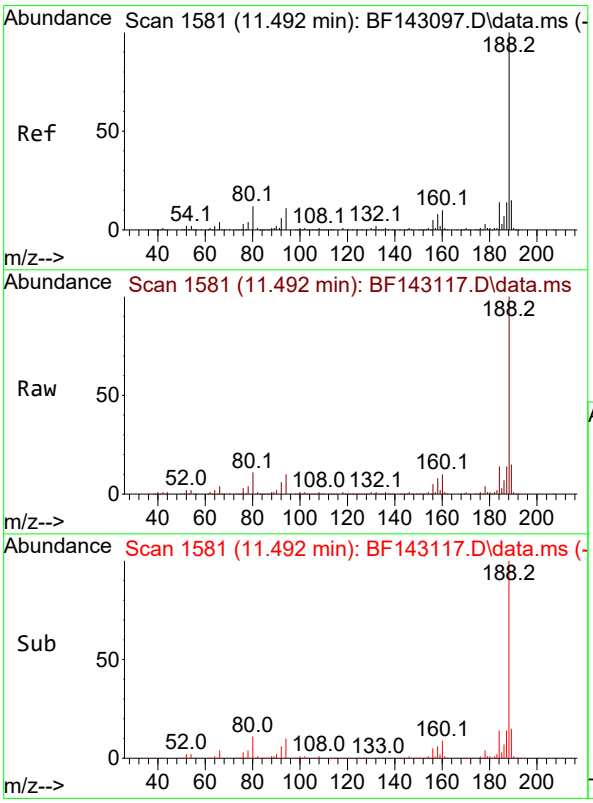
#63
Azobenzene
Concen: 38.265 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 652575

Ion	Ratio	Lower	Upper
77	100		
182	24.9	4.0	44.0
105	21.3	1.4	41.4
51	34.1	14.3	54.3

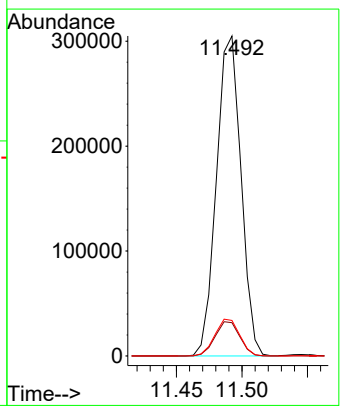


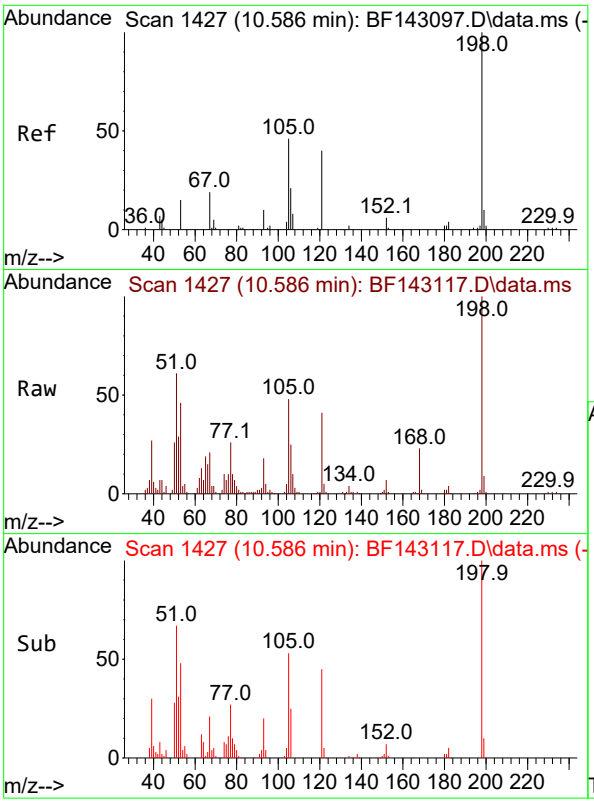


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:188 Resp: 397173

Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.6	13.0
80	11.1	9.3	13.9



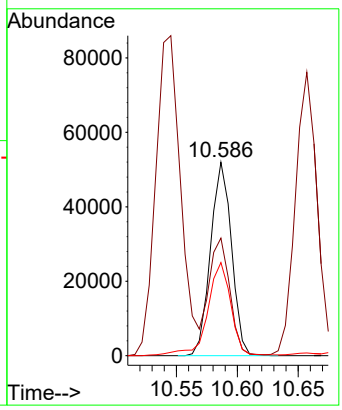


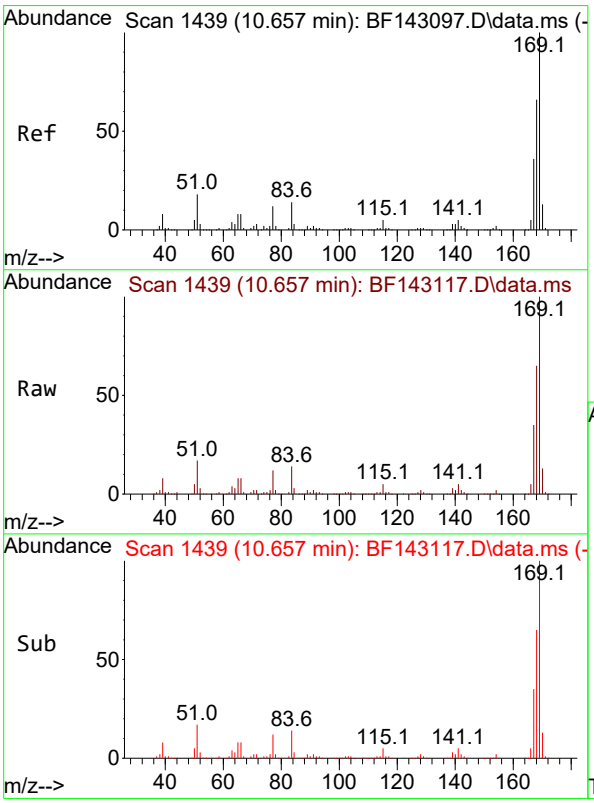
#65
4,6-Dinitro-2-methylphenol
Concen: 43.295 ng
RT: 10.586 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 62192

Ion	Ratio	Lower	Upper
198	100		
51	60.8	44.6	84.6
105	48.2	29.3	69.3

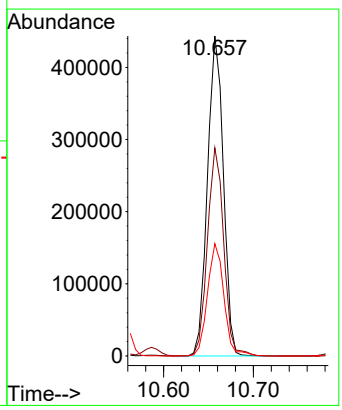


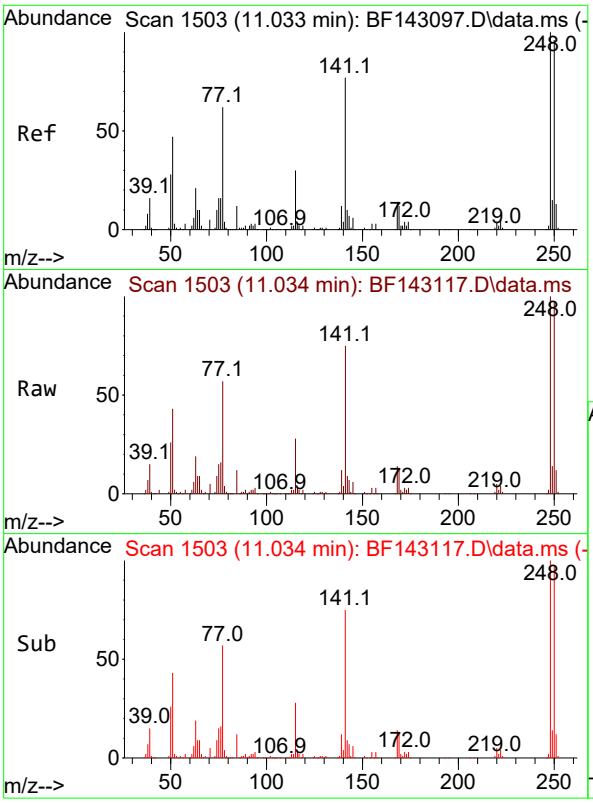


#66
n-Nitrosodiphenylamine
Concen: 39.129 ng
RT: 10.657 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:169 Resp: 545898

Ion	Ratio	Lower	Upper
169	100		
168	65.1	53.0	79.6
167	35.1	28.4	42.6



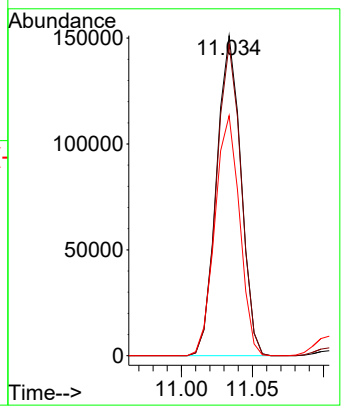


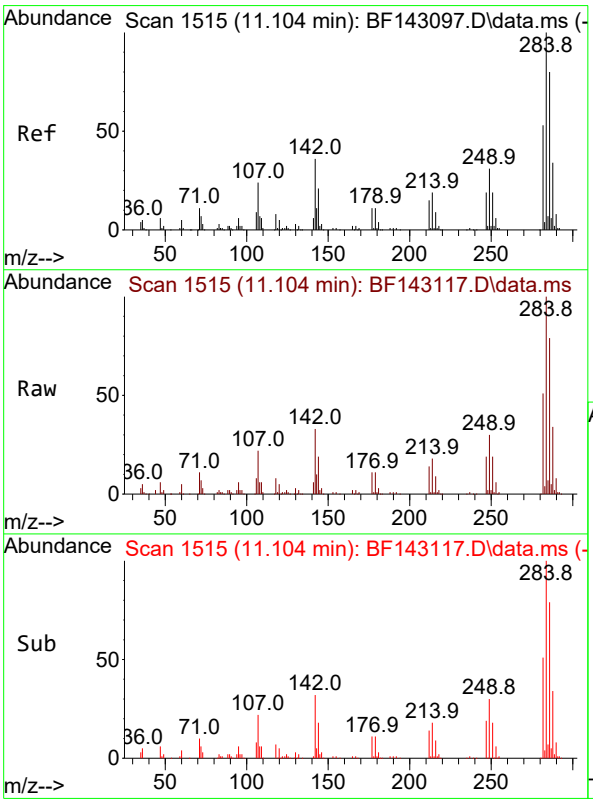
#67
4-Bromophenyl-phenylether
Concen: 39.949 ng
RT: 11.034 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 180440

Ion	Ratio	Lower	Upper
248	100		
250	97.3	76.7	115.1
141	75.0	61.7	92.5

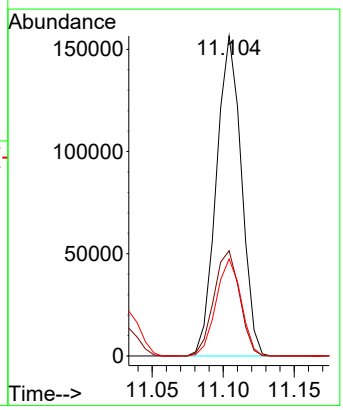


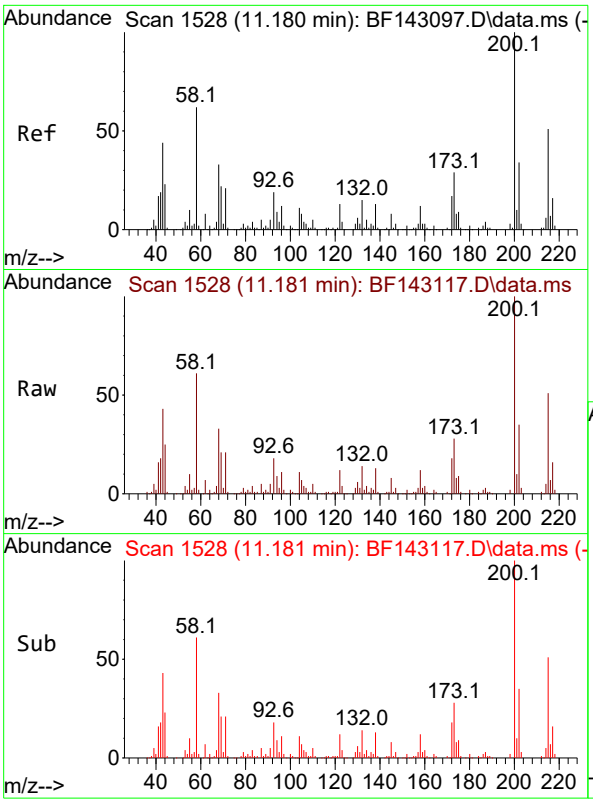


#68
Hexachlorobenzene
Concen: 39.950 ng
RT: 11.104 min Scan# 1515
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:284 Resp: 191457

Ion	Ratio	Lower	Upper
284	100		
142	32.9	28.9	43.3
249	30.3	24.6	37.0



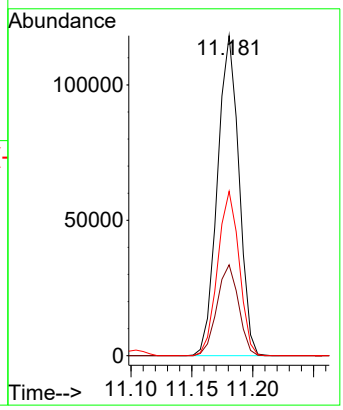


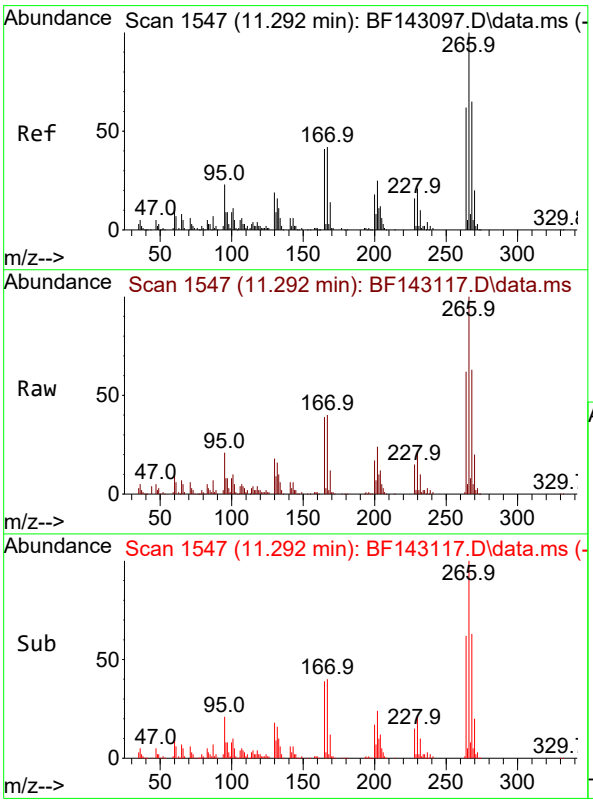
#69
Atrazine
Concen: 40.708 ng
RT: 11.181 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 145300

Ion	Ratio	Lower	Upper
200	100		
173	28.4	9.1	49.1
215	51.4	31.0	71.0

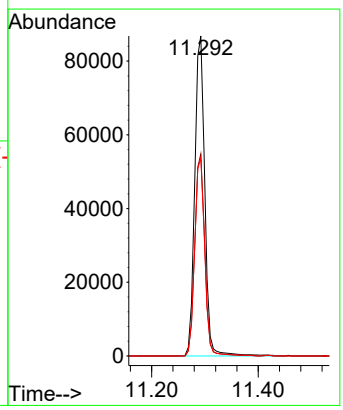


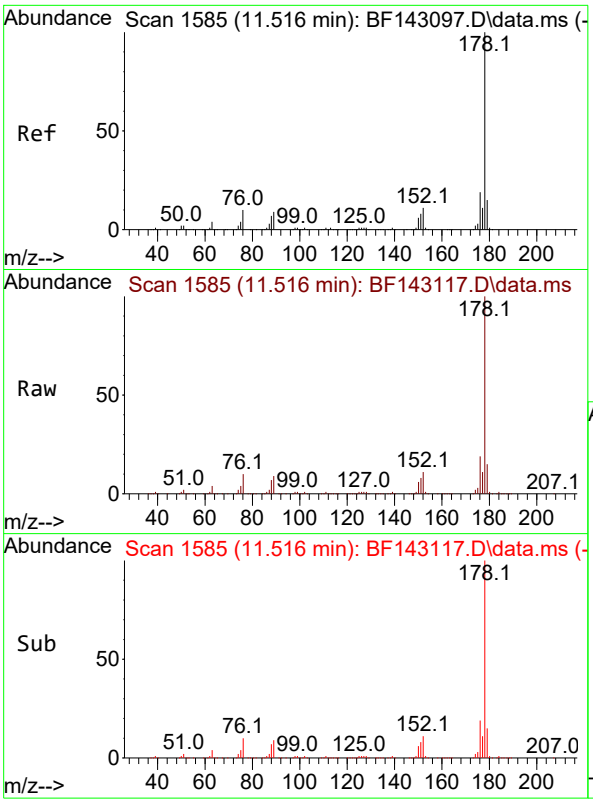


#70
Pentachlorophenol
Concen: 43.376 ng
RT: 11.292 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:266 Resp: 114049

Ion	Ratio	Lower	Upper
266	100		
268	63.1	51.8	77.6
264	62.0	49.7	74.5



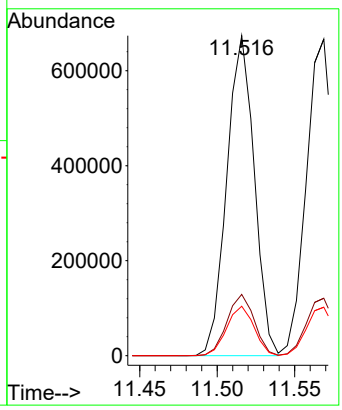


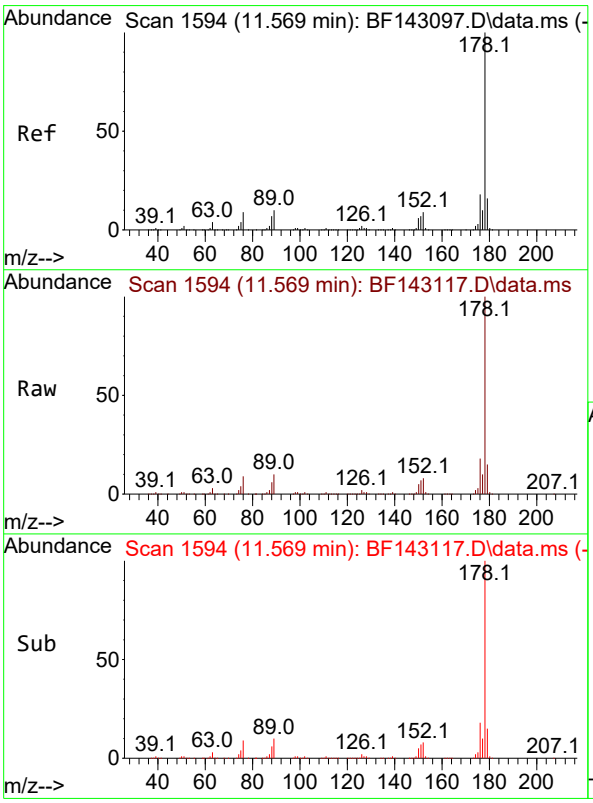
#71
Phenanthrene
Concen: 38.780 ng
RT: 11.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 831246

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	15.4	12.2	18.4

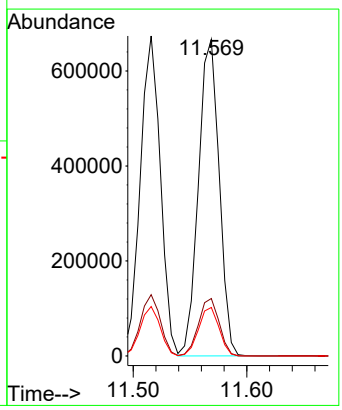


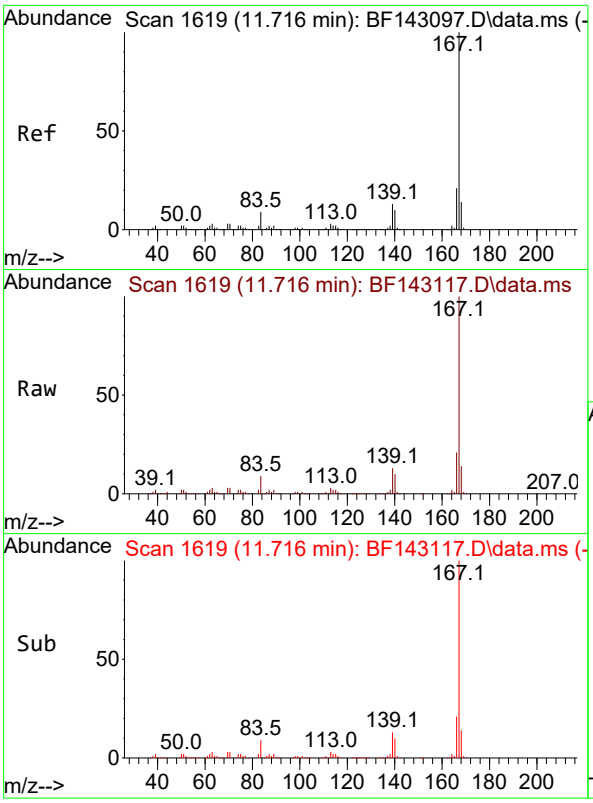


#72
Anthracene
Concen: 39.169 ng
RT: 11.569 min Scan# 1594
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:178 Resp: 844296

Ion	Ratio	Lower	Upper
178	100		
176	18.1	14.7	22.1
179	15.3	12.4	18.6



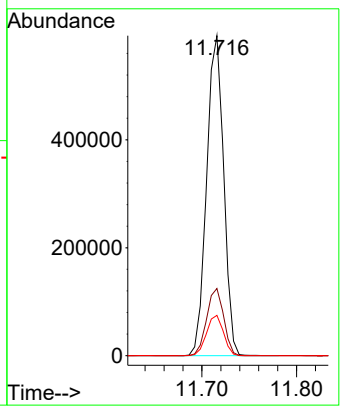


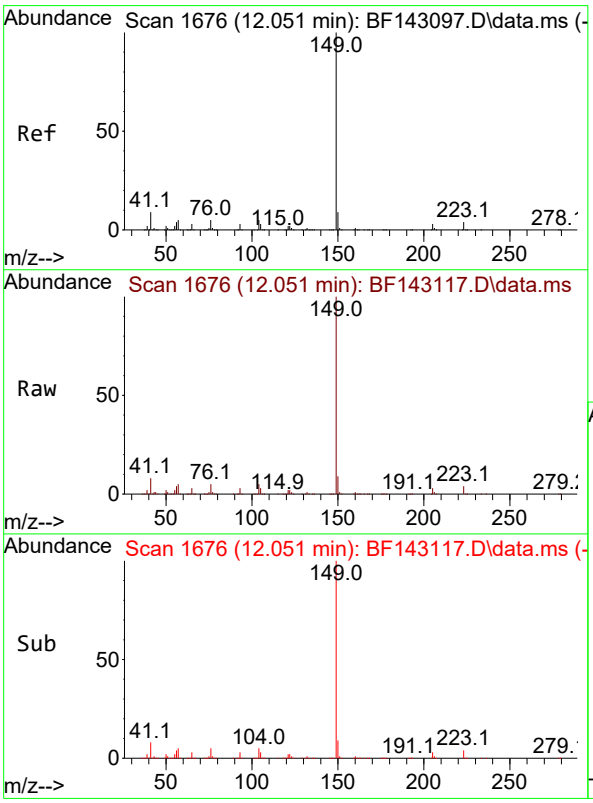
#73
Carbazole
Concen: 38.436 ng
RT: 11.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 742234

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.4
139	12.6	10.2	15.4

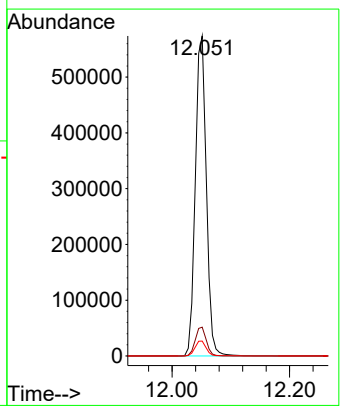


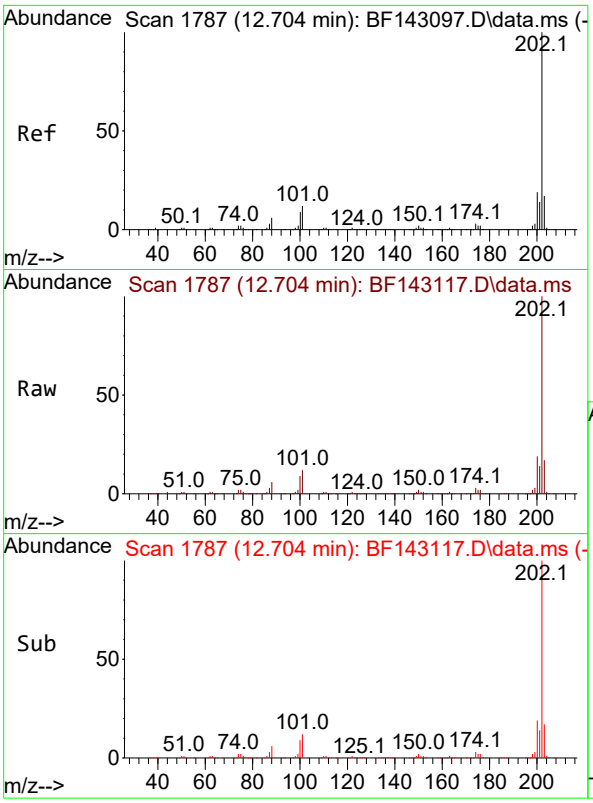


#74
Di-n-butylphthalate
Concen: 41.970 ng
RT: 12.051 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:149 Resp: 743944

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.6	3.8	5.8



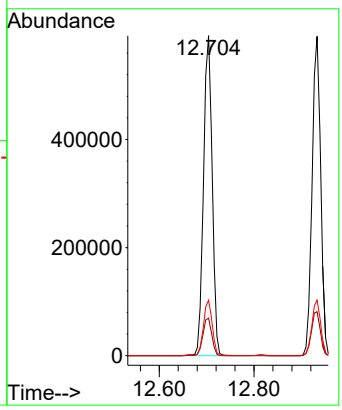


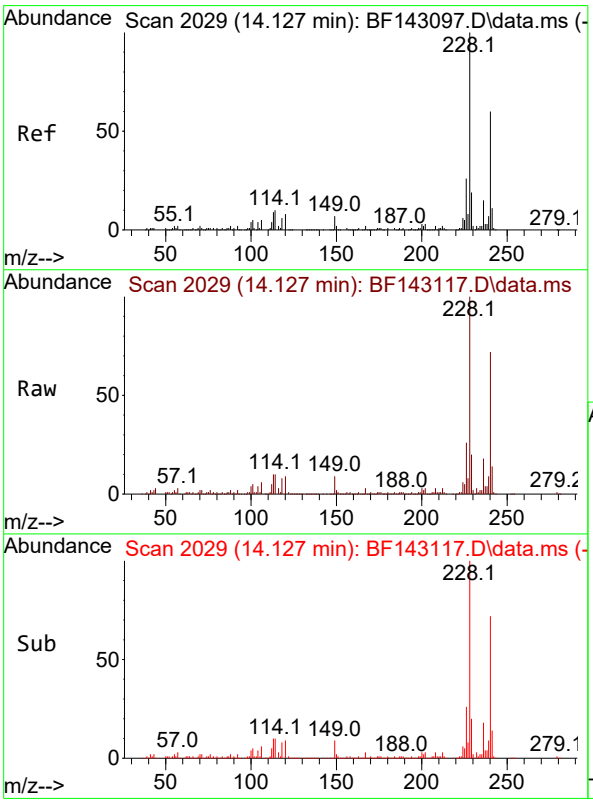
#75
Fluoranthene
Concen: 38.604 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 752396

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.4
203	17.4	0.0	37.4

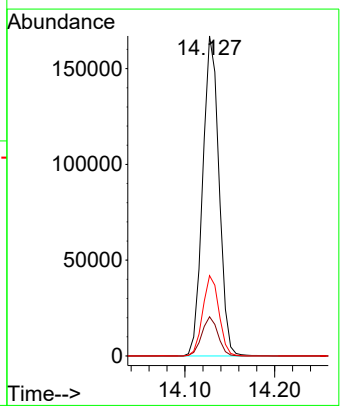


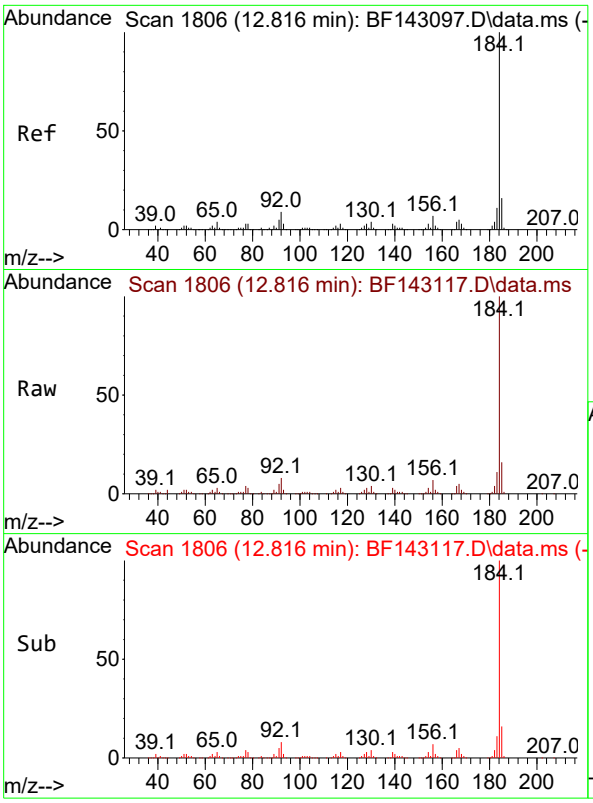


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:240 Resp: 210714

Ion	Ratio	Lower	Upper
240	100		
120	12.3	10.0	15.0
236	25.1	20.0	30.0



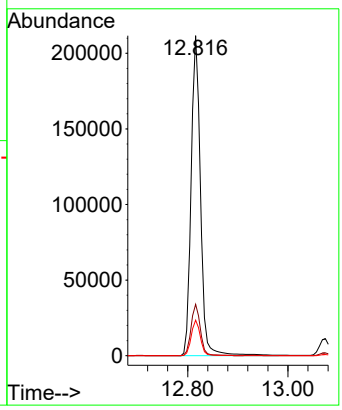


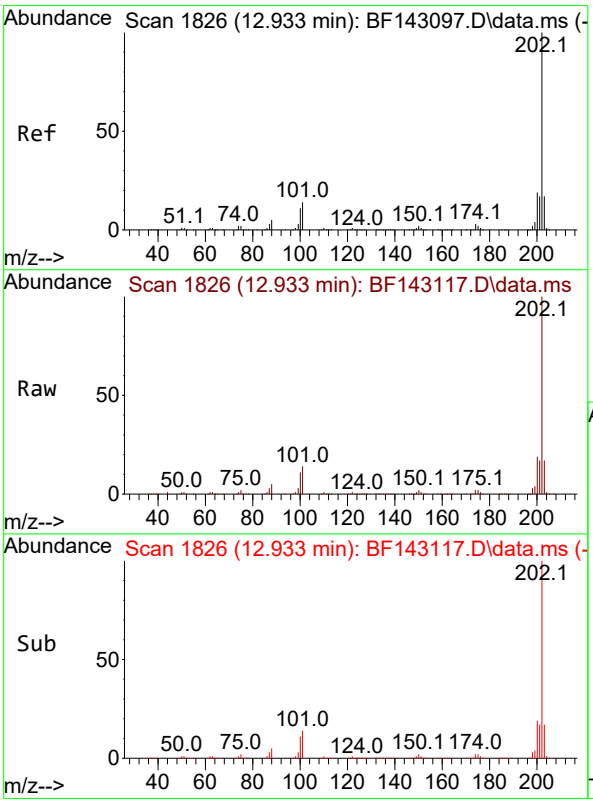
#77
Benzidine
Concen: 38.177 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 274069

Ion	Ratio	Lower	Upper
184	100		
185	16.0	12.4	18.6
183	11.1	8.6	12.8

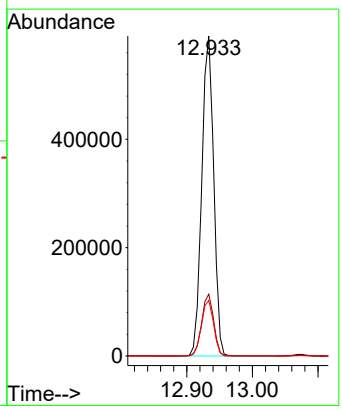


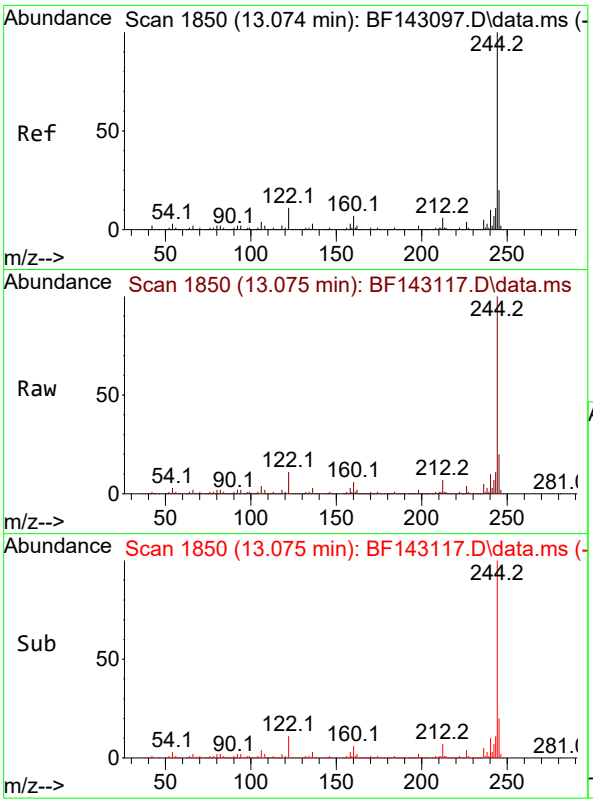


#78
Pyrene
Concen: 38.214 ng
RT: 12.933 min Scan# 1826
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:202 Resp: 747120

Ion	Ratio	Lower	Upper
202	100		
200	19.3	15.5	23.3
203	17.4	14.0	21.0



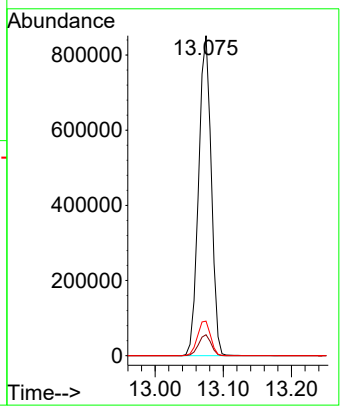


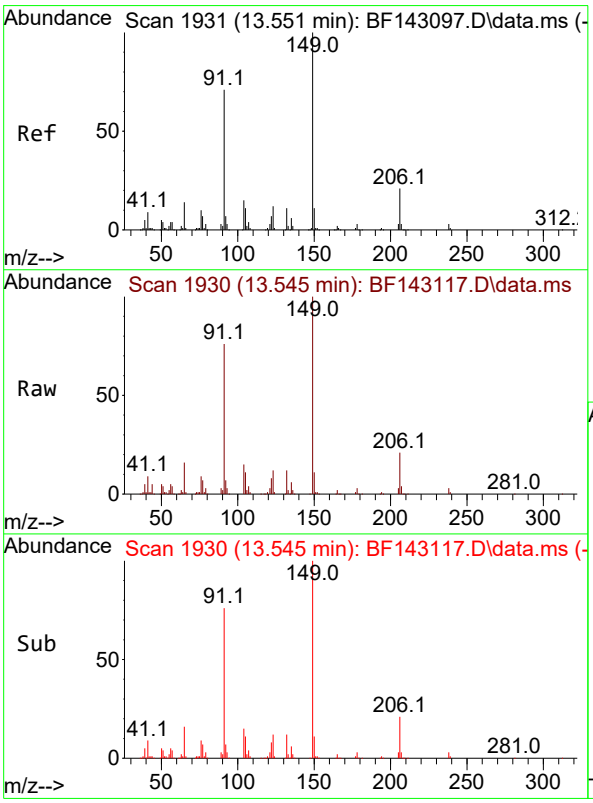
#79
Terphenyl-d14
Concen: 76.150 ng
RT: 13.075 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1097674

Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.2	7.8
122	10.8	8.8	13.2

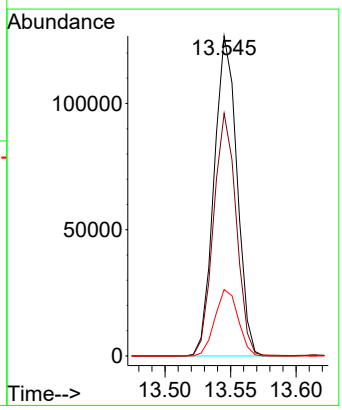


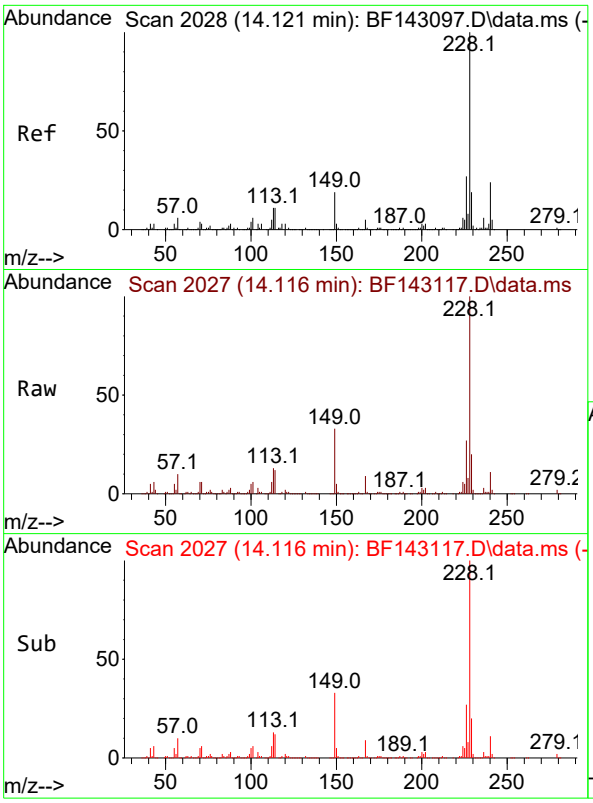


#80
Butylbenzylphthalate
Concen: 39.754 ng
RT: 13.545 min Scan# 1930
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:149 Resp: 153672

Ion	Ratio	Lower	Upper
149	100		
91	75.8	57.0	85.4
206	20.7	17.2	25.8



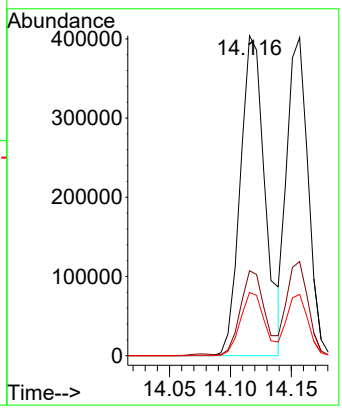


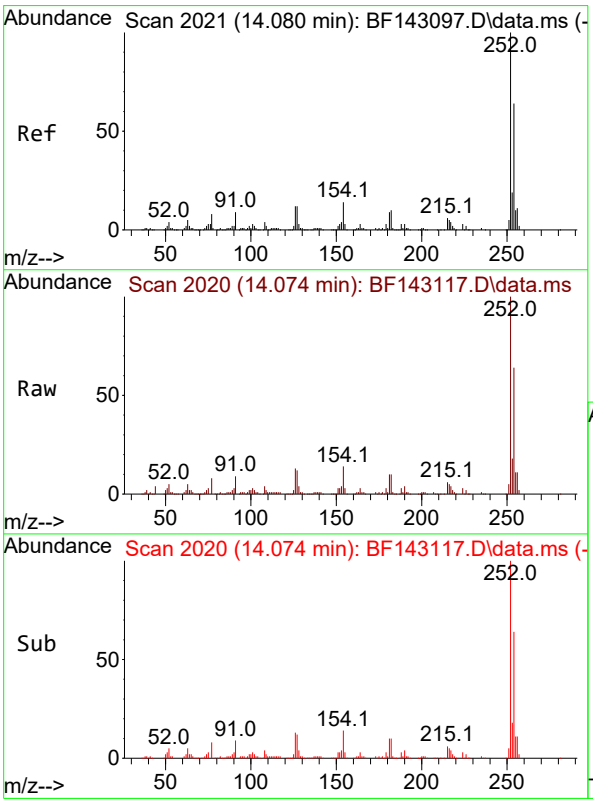
#81
Benzo(a)anthracene
Concen: 40.624 ng
RT: 14.116 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 570413

Ion	Ratio	Lower	Upper
228	100		
226	26.5	21.3	31.9
229	19.7	15.5	23.3

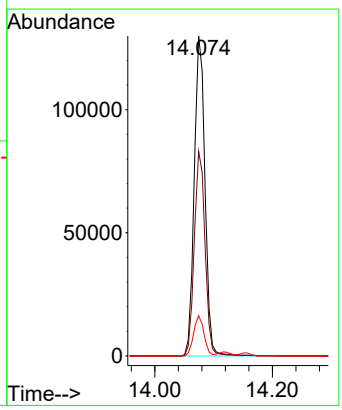


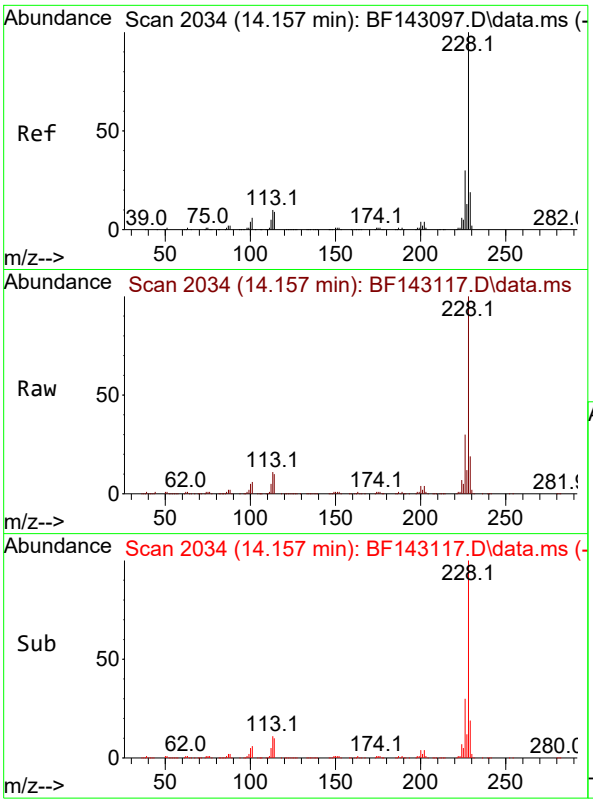


#82
3,3'-Dichlorobenzidine
Concen: 40.409 ng
RT: 14.074 min Scan# 2020
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:252 Resp: 164768

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.5	77.3
126	12.6	9.4	14.0



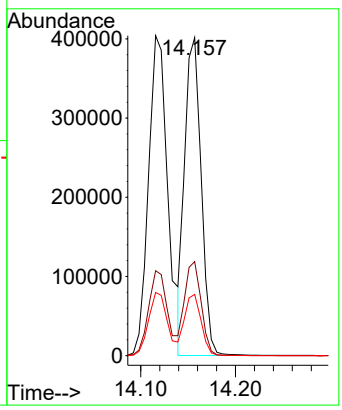


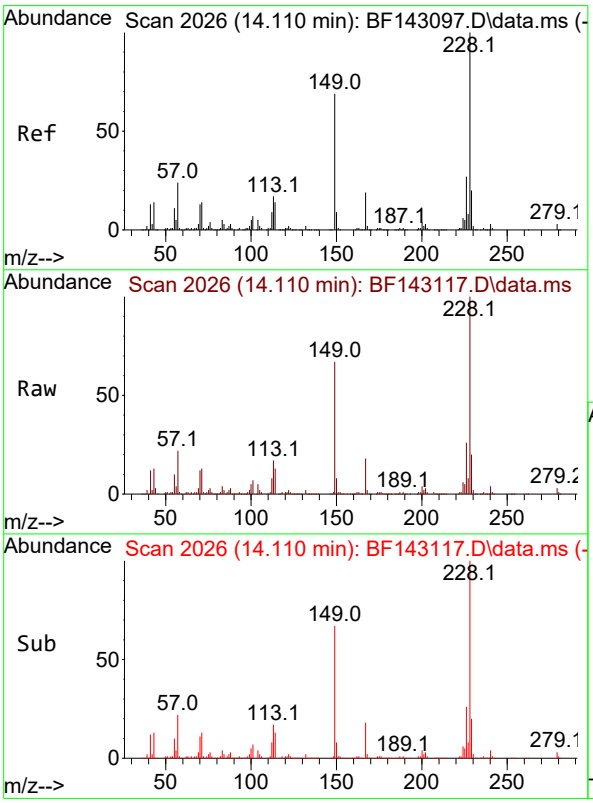
#83
Chrysene
Concen: 37.657 ng
RT: 14.157 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 486986

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.4	35.2
229	19.3	15.3	22.9

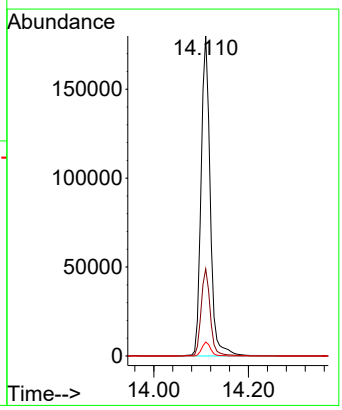


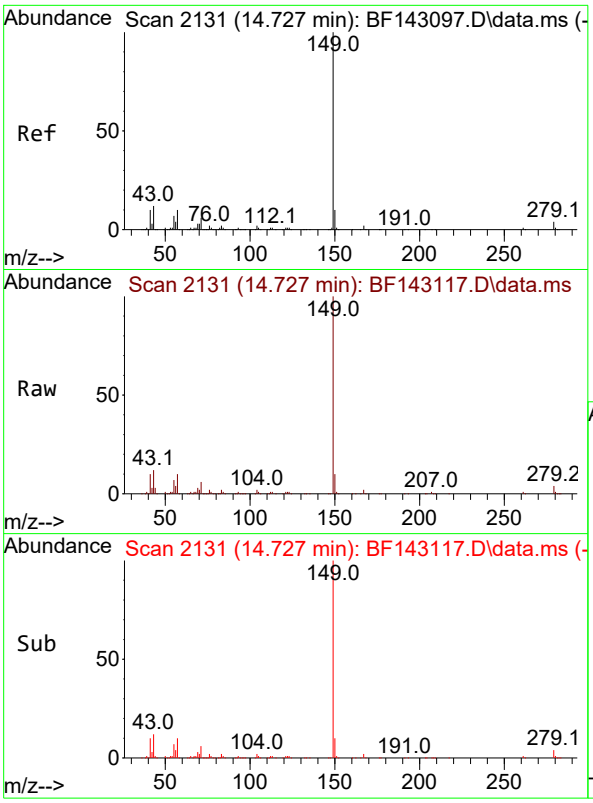


#84
Bis(2-ethylhexyl)phthalate
Concen: 41.219 ng
RT: 14.110 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:149 Resp: 241107

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.9	32.9
279	4.4	3.4	5.0



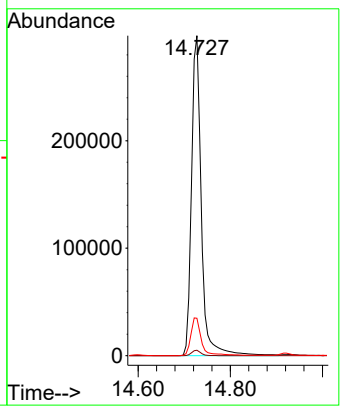


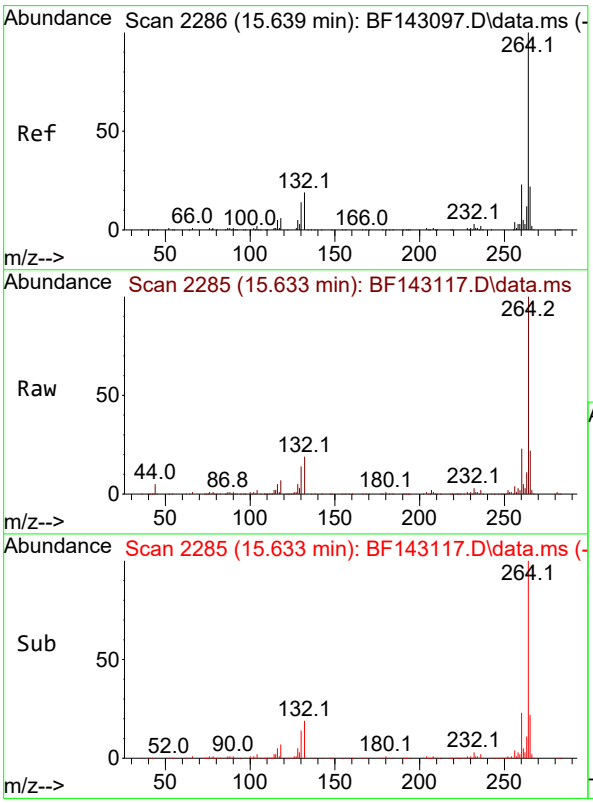
#85
Di-n-octyl phthalate
Concen: 40.440 ng
RT: 14.727 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 439529

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	13.1	10.6	16.0

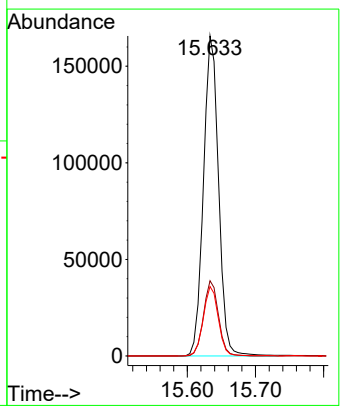


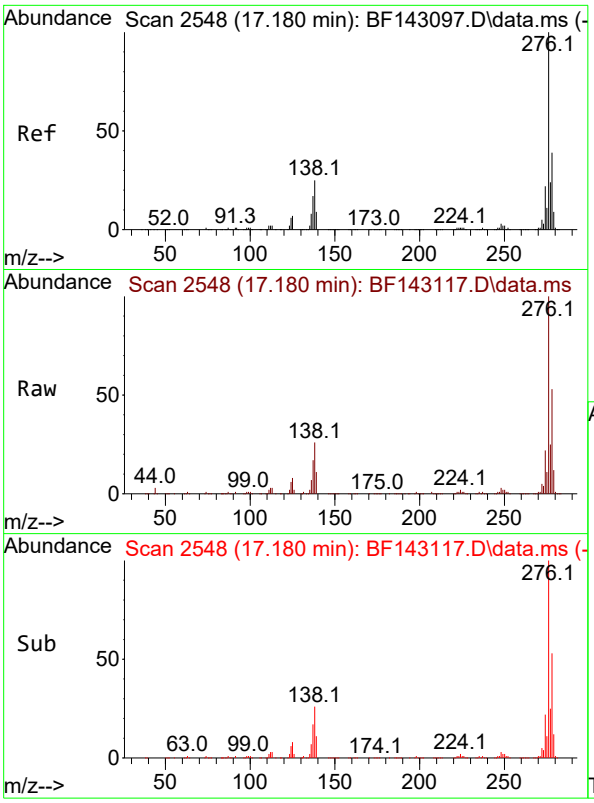


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2285
Delta R.T. -0.006 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:264 Resp: 255524

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.5	27.7
265	21.7	17.5	26.3



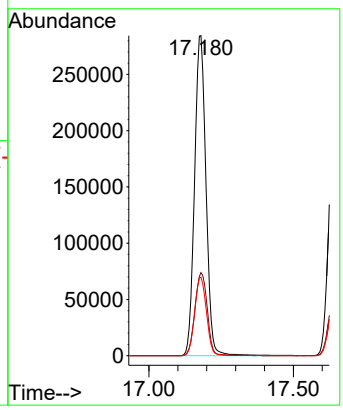


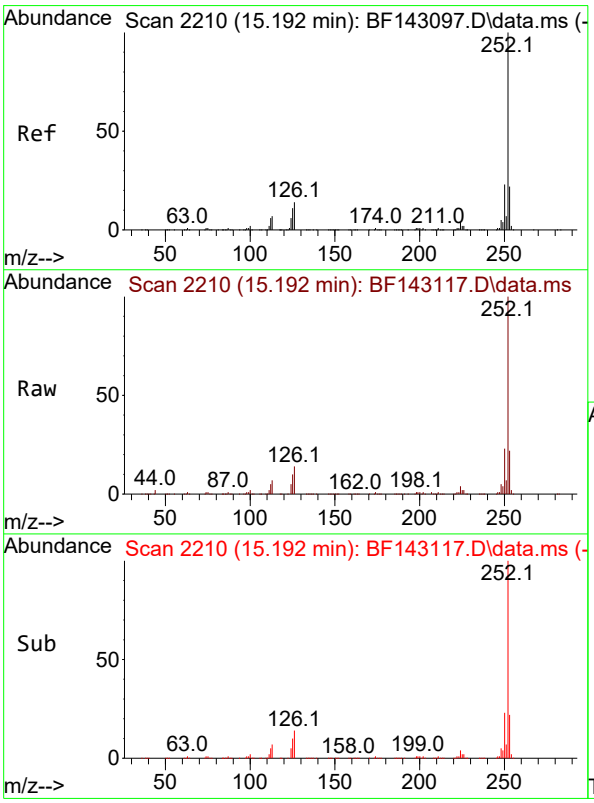
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.122 ng
RT: 17.180 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 781535

Ion	Ratio	Lower	Upper
276	100		
138	27.9	22.6	34.0
277	25.2	20.2	30.2

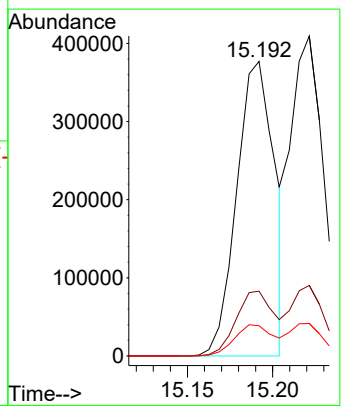


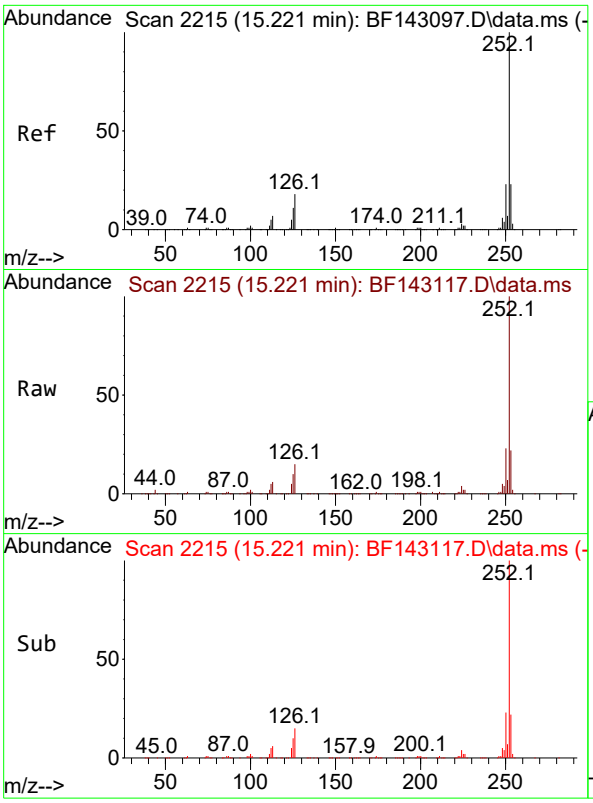


#88
Benzo(b)fluoranthene
Concen: 39.393 ng
RT: 15.192 min Scan# 2210
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:252 Resp: 580612

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.2	8.6	13.0



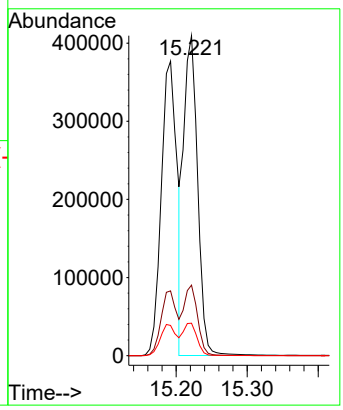


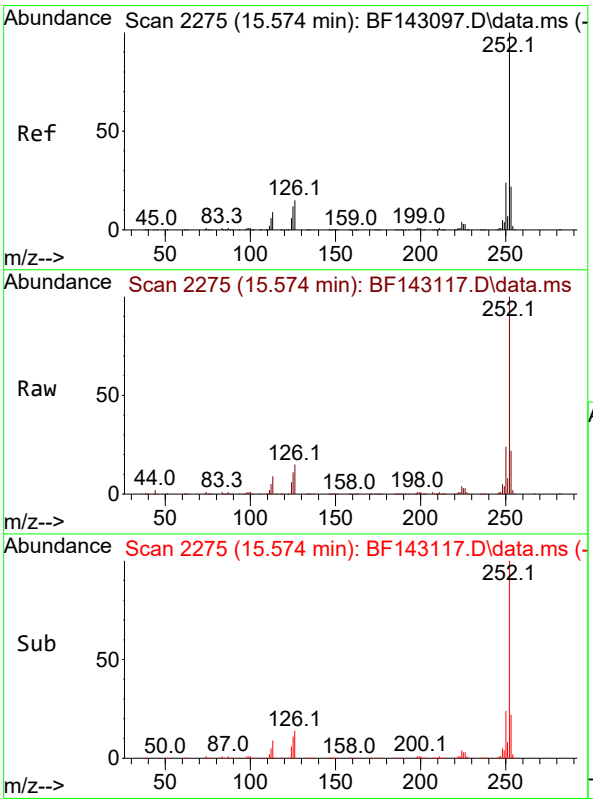
#89
Benzo(k)fluoranthene
Concen: 39.698 ng
RT: 15.221 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 558211

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2
125	10.2	8.5	12.7

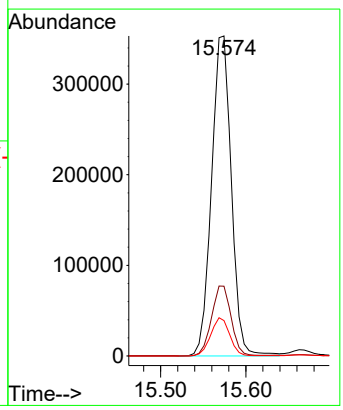


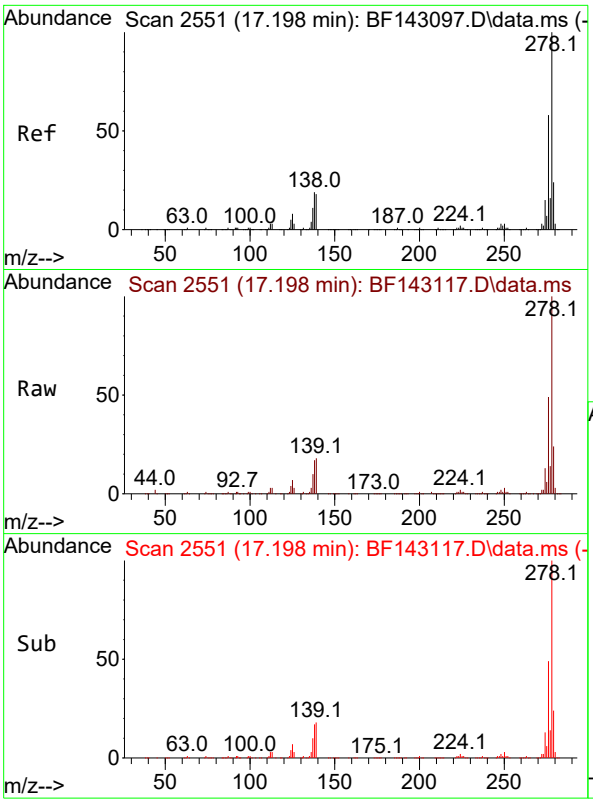


#90
Benzo(a)pyrene
Concen: 40.896 ng
RT: 15.574 min Scan# 2275
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:252 Resp: 570084

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.5	26.3
125	11.0	9.4	14.0



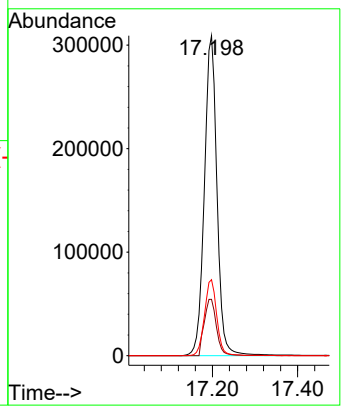


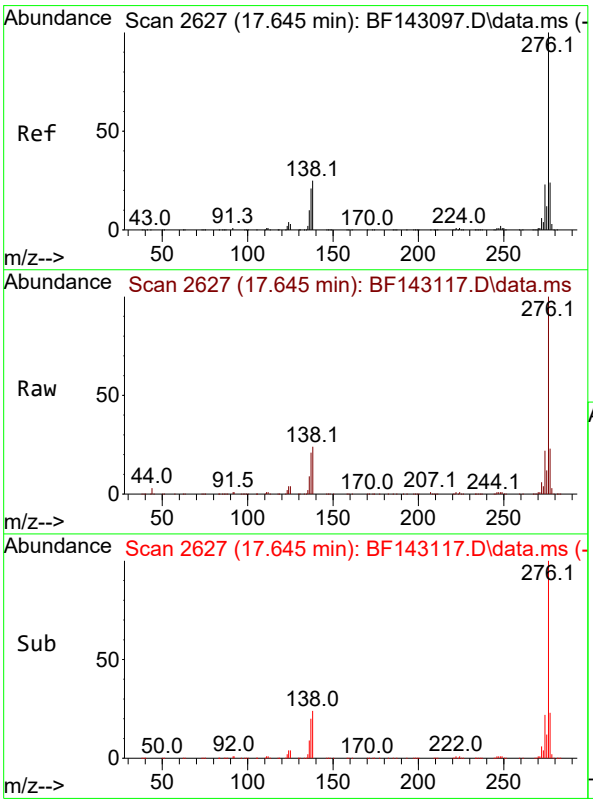
#91
Dibenzo(a,h)anthracene
Concen: 40.895 ng
RT: 17.198 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 635338

Ion	Ratio	Lower	Upper
278	100		
139	17.6	14.6	22.0
279	23.8	18.8	28.2

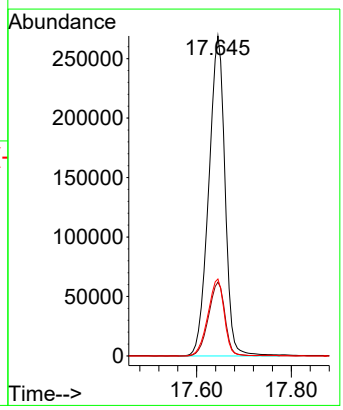




#92
Benzo(g,h,i)perylene
Concen: 40.534 ng
RT: 17.645 min Scan# 2627
Delta R.T. 0.000 min
Lab File: BF143117.D
Acq: 16 Jul 2025 19:39

Tgt Ion:276 Resp: 642024

Ion	Ratio	Lower	Upper
276	100		
277	23.1	19.2	28.8
138	24.0	19.8	29.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	109	0.00
2		1,4-Dioxane	0.630	0.628	0.3	110	0.00
3		Pyridine	1.596	1.575	1.3	108	0.00
4		n-Nitrosodimethylamine	0.827	0.806	2.5	108	0.00
5	S	2-Fluorophenol	1.266	1.249	1.3	109	0.00
6		Aniline	2.241	2.205	1.6	109	0.00
7	S	Phenol-d6	1.591	1.563	1.8	109	0.00
8		2-Chlorophenol	1.272	1.316	-3.5	113	0.00
9		Benzaldehyde	1.212	1.240	-2.3	94	0.00
10	C	Phenol	1.723	1.816	-5.4	116	0.00
11		bis(2-Chloroethyl)ether	1.334	1.298	2.7	109	0.00
12		1,3-Dichlorobenzene	1.437	1.430	0.5	111	0.00
13	C	1,4-Dichlorobenzene	1.446	1.418	1.9	110	0.00
14		1,2-Dichlorobenzene	1.379	1.346	2.4	108	0.00
15		Benzyl Alcohol	1.179	1.183	-0.3	111	0.00
16		2,2'-oxybis(1-Chloropropane	2.458	2.389	2.8	109	0.00
17		2-Methylphenol	1.098	1.094	0.4	111	0.00
18		Hexachloroethane	0.471	0.486	-3.2	113	0.00
19	P	n-Nitroso-di-n-propylamine	0.975	0.965	1.0	110	0.00
20		3+4-Methylphenols	1.346	1.368	-1.6	110	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
22		Acetophenone	0.482	0.467	3.1	109	0.00
23	S	Nitrobenzene-d5	0.357	0.402	-12.6	118	0.00
24		Nitrobenzene	0.344	0.369	-7.3	113	0.00
25		Isophorone	0.689	0.675	2.0	109	0.00
26	C	2-Nitrophenol	0.114	0.145	-27.2#	132	0.00
27		2,4-Dimethylphenol	0.320	0.320	0.0	109	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.412	1.4	110	0.00
29	C	2,4-Dichlorophenol	0.262	0.269	-2.7	110	0.00
30		1,2,4-Trichlorobenzene	0.297	0.292	1.7	108	0.00
31		Naphthalene	0.993	0.972	2.1	110	0.00
32		Benzoic acid	0.139	0.147	-5.8	112	0.00
33		4-Chloroaniline	0.399	0.393	1.5	108	0.00
34	C	Hexachlorobutadiene	0.178	0.178	0.0	110	0.00
35		Caprolactam	0.082	0.084	-2.4	111	0.00
36	C	4-Chloro-3-methylphenol	0.291	0.293	-0.7	110	0.00
37		2-Methylnaphthalene	0.592	0.578	2.4	109	0.00
38		1-Methylnaphthalene	0.615	0.599	2.6	109	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	112	0.00
40		1,2,4,5-Tetrachlorobenzene	0.583	0.567	2.7	109	0.00
41	P	Hexachlorocyclopentadiene	0.323	0.341	-5.6	118	0.00
42	S	2,4,6-Tribromophenol	0.178	0.191	-7.3	113	0.00
43	C	2,4,6-Trichlorophenol	0.362	0.386	-6.6	114	0.00
44		2,4,5-Trichlorophenol	0.380	0.387	-1.8	110	0.00
45	S	2-Fluorobiphenyl	1.505	1.421	5.6	109	0.00
46		1,1'-Biphenyl	1.595	1.534	3.8	109	0.00
47		2-Chloronaphthalene	1.172	1.129	3.7	109	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	0.303	0.352	-16.2	120	0.00
49		Acenaphthylene	1.952	1.912	2.0	109	0.00
50		Dimethylphthalate	1.258	1.236	1.7	110	0.00
51		2,6-Dinitrotoluene	0.219	0.258	-17.8	123	0.00
52	C	Acenaphthene	1.152	1.115	3.2	110	0.00
53		3-Nitroaniline	0.272	0.299	-9.9	116	0.00
54	P	2,4-Dinitrophenol	0.073	0.082	-12.3	134	0.00
55		Dibenzofuran	1.717	1.649	4.0	108	0.00
56	P	4-Nitrophenol	0.216	0.230	-6.5	115	0.00
57		2,4-Dinitrotoluene	0.265	0.307	-15.8	116	0.00
58		Fluorene	1.288	1.219	5.4	109	0.00
59		2,3,4,6-Tetrachlorophenol	0.302	0.324	-7.3	116	0.00
60		Diethylphthalate	1.214	1.211	0.2	110	0.00
61		4-Chlorophenyl-phenylether	0.617	0.603	2.3	109	0.00
62		4-Nitroaniline	0.236	0.255	-8.1	114	0.00
63		Azobenzene	1.343	1.284	4.4	108	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	0.067	0.078	-16.4	131	0.00
66	c	n-Nitrosodiphenylamine	0.703	0.687	2.3	108	0.00
67		4-Bromophenyl-phenylether	0.227	0.227	0.0	110	0.00
68		Hexachlorobenzene	0.241	0.241	0.0	110	0.00
69		Atrazine	0.180	0.183	-1.7	109	0.00
70	C	Pentachlorophenol	0.132	0.144	-9.1	117	0.00
71		Phenanthrene	1.079	1.046	3.1	108	0.00
72		Anthracene	1.085	1.063	2.0	108	0.00
73		Carbazole	0.972	0.934	3.9	107	0.00
74		Di-n-butylphthalate	0.893	0.937	-4.9	109	0.00
75	C	Fluoranthene	0.981	0.947	3.5	106	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	110	0.00
77		Benzidine	0.681	0.650	4.6	85	0.00
78		Pyrene	1.856	1.773	4.5	105	0.00
79	S	Terphenyl-d14	1.368	1.302	4.8	106	0.00
80		Butylbenzylphthalate	0.318	0.365	-14.8	116	0.00
81		Benzo(a)anthracene	1.333	1.354	-1.6	110	0.00
82		3,3'-Dichlorobenzidine	0.387	0.391	-1.0	111	0.00
83		Chrysene	1.227	1.156	5.8	105	0.00
84		Bis(2-ethylhexyl)phthalate	0.480	0.572	-19.2	122	0.00
85	c	Di-n-octyl phthalate	0.927	1.043	-12.5	124	0.00
86	I	Perylene-d12	1.000	1.000	0.0	113	0.00
87		Indeno(1,2,3-cd)pyrene	1.488	1.529	-2.8	113	0.00
88		Benzo(b)fluoranthene	1.154	1.136	1.6	118	0.00
89		Benzo(k)fluoranthene	1.101	1.092	0.8	107	0.00
90	C	Benzo(a)pyrene	1.091	1.116	-2.3	112	0.00
91		Dibenzo(a,h)anthracene	1.216	1.243	-2.2	113	0.00
92		Benzo(g,h,i)perylene	1.240	1.256	-1.3	113	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	109	0.00
2		1,4-Dioxane	40.000	39.864	0.3	110	0.00
3		Pyridine	40.000	39.489	1.3	108	0.00
4		n-Nitrosodimethylamine	40.000	39.012	2.5	108	0.00
5	S	2-Fluorophenol	80.000	78.913	1.4	109	0.00
6		Aniline	40.000	39.360	1.6	109	0.00
7	S	Phenol-d6	80.000	78.603	1.7	109	0.00
8		2-Chlorophenol	40.000	41.401	-3.5	113	0.00
9		Benzaldehyde	40.000	40.919	-2.3	94	0.00
10	C	Phenol	40.000	42.169	-5.4	116	0.00
11		bis(2-Chloroethyl)ether	40.000	38.936	2.7	109	0.00
12		1,3-Dichlorobenzene	40.000	39.815	0.5	111	0.00
13	C	1,4-Dichlorobenzene	40.000	39.238	1.9	110	0.00
14		1,2-Dichlorobenzene	40.000	39.051	2.4	108	0.00
15		Benzyl Alcohol	40.000	40.125	-0.3	111	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.870	2.8	109	0.00
17		2-Methylphenol	40.000	39.876	0.3	111	0.00
18		Hexachloroethane	40.000	41.310	-3.3	113	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.615	1.0	110	0.00
20		3+4-Methylphenols	40.000	40.641	-1.6	110	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	109	0.00
22		Acetophenone	40.000	38.753	3.1	109	0.00
23	S	Nitrobenzene-d5	80.000	90.170	-12.7	118	0.00
24		Nitrobenzene	40.000	42.874	-7.2	113	0.00
25		Isophorone	40.000	39.167	2.1	109	0.00
26	C	2-Nitrophenol	40.000	42.663	-6.7	132	0.00
27		2,4-Dimethylphenol	40.000	39.965	0.1	109	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.412	1.5	110	0.00
29	C	2,4-Dichlorophenol	40.000	41.164	-2.9	110	0.00
30		1,2,4-Trichlorobenzene	40.000	39.339	1.7	108	0.00
31		Naphthalene	40.000	39.140	2.1	110	0.00
32		Benzoic acid	40.000	38.466	3.8	112	0.00
33		4-Chloroaniline	40.000	39.377	1.6	108	0.00
34	C	Hexachlorobutadiene	40.000	40.072	-0.2	110	0.00
35		Caprolactam	40.000	41.190	-3.0	111	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.192	-0.5	110	0.00
37		2-Methylnaphthalene	40.000	39.014	2.5	109	0.00
38		1-Methylnaphthalene	40.000	38.976	2.6	109	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	112	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.885	2.8	109	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.225	-5.6	118	0.00
42	S	2,4,6-Tribromophenol	80.000	85.634	-7.0	113	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.600	-6.5	114	0.00
44		2,4,5-Trichlorophenol	40.000	40.747	-1.9	110	0.00
45	S	2-Fluorobiphenyl	80.000	75.570	5.5	109	0.00
46		1,1'-Biphenyl	40.000	38.466	3.8	109	0.00
47		2-Chloronaphthalene	40.000	38.546	3.6	109	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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	40.710	-1.8	120	0.00
49		Acenaphthylene	40.000	39.176	2.1	109	0.00
50		Dimethylphthalate	40.000	39.291	1.8	110	0.00
51		2,6-Dinitrotoluene	40.000	41.829	-4.6	123	0.00
52	C	Acenaphthene	40.000	38.701	3.2	110	0.00
53		3-Nitroaniline	40.000	43.942	-9.9	116	0.00
54	P	2,4-Dinitrophenol	40.000	42.980	-7.4	134	0.00
55		Dibenzofuran	40.000	38.413	4.0	108	0.00
56	P	4-Nitrophenol	40.000	42.650	-6.6	115	0.00
57		2,4-Dinitrotoluene	40.000	40.106	-0.3	116	0.00
58		Fluorene	40.000	37.875	5.3	109	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	42.914	-7.3	116	0.00
60		Diethylphthalate	40.000	39.920	0.2	110	0.00
61		4-Chlorophenyl-phenylether	40.000	39.072	2.3	109	0.00
62		4-Nitroaniline	40.000	43.204	-8.0	114	0.00
63		Azobenzene	40.000	38.265	4.3	108	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	40.000	43.295	-8.2	131	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.129	2.2	108	0.00
67		4-Bromophenyl-phenylether	40.000	39.949	0.1	110	0.00
68		Hexachlorobenzene	40.000	39.950	0.1	110	0.00
69		Atrazine	40.000	40.708	-1.8	109	0.00
70	C	Pentachlorophenol	40.000	43.376	-8.4	117	0.00
71		Phenanthrene	40.000	38.780	3.0	108	0.00
72		Anthracene	40.000	39.169	2.1	108	0.00
73		Carbazole	40.000	38.436	3.9	107	0.00
74		Di-n-butylphthalate	40.000	41.970	-4.9	109	0.00
75	C	Fluoranthene	40.000	38.604	3.5	106	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	110	0.00
77		Benzidine	40.000	38.177	4.6	85	0.00
78		Pyrene	40.000	38.214	4.5	105	0.00
79	S	Terphenyl-d14	80.000	76.150	4.8	106	0.00
80		Butylbenzylphthalate	40.000	39.754	0.6	116	0.00
81		Benzo(a)anthracene	40.000	40.624	-1.6	110	0.00
82		3,3'-Dichlorobenzidine	40.000	40.409	-1.0	111	0.00
83		Chrysene	40.000	37.657	5.9	105	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	41.219	-3.0	122	0.00
85	c	Di-n-octyl phthalate	40.000	40.440	-1.1	124	0.00
86	I	Perylene-d12	20.000	20.000	0.0	113	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.122	-2.8	113	0.00
88		Benzo(b)fluoranthene	40.000	39.393	1.5	118	0.00
89		Benzo(k)fluoranthene	40.000	39.698	0.8	107	0.00
90	C	Benzo(a)pyrene	40.000	40.896	-2.2	112	0.00
91		Dibenzo(a,h)anthracene	40.000	40.895	-2.2	113	0.00
92		Benzo(g,h,i)perylene	40.000	40.534	-1.3	113	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143117.D
Acq On : 16 Jul 2025 19:39
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 03:44:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 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: Alliance Contract: PARS02

Lab Code: ACE SDG No.: Q2592

Instrument ID: BNA_M Calibration Date/Time: 07/17/2025 13:42

Lab File ID: BM050474.D Init. Calib. Date(s): 07/08/2025 07/08/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:39 17:22

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.254	1.241		-1.0	
2-Fluorophenol	1.162	1.165		0.3	
Phenol-d6	1.465	1.479		1.0	
1,4-Dichlorobenzene	1.521	1.487		-2.2	20.0
2-Methylphenol	0.991	0.990		-0.1	
3+4-Methylphenols	1.330	1.341		0.8	
Nitrobenzene-d5	0.392	0.393		0.3	
Hexachloroethane	0.535	0.522		-2.4	
Nitrobenzene	0.350	0.343		-2.0	
Hexachlorobutadiene	0.228	0.231		1.3	20.0
2,4,6-Trichlorophenol	0.391	0.429		9.7	20.0
2-Fluorobiphenyl	1.620	1.584		-2.2	
2,4,5-Trichlorophenol	0.428	0.466		8.9	
2,4-Dinitrotoluene	0.350	0.407		16.3	
2,4,6-Tribromophenol	0.243	0.284		16.9	
Hexachlorobenzene	0.260	0.264		1.5	
Pentachlorophenol	0.162	0.180		11.1	20.0
Terphenyl-d14	1.137	1.120		-1.5	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.851	152	523700	20.000	ng		0.00
21) Naphthalene-d8	10.639	136	1980057	20.000	ng		0.00
39) Acenaphthene-d10	14.474	164	1283321	20.000	ng		0.00
64) Phenanthrene-d10	17.209	188	2540655	20.000	ng		0.00
76) Chrysene-d12	21.433	240	2672211	20.000	ng		0.00
86) Perylene-d12	24.456	264	2895075	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.428	112	2440748	80.224	ng		0.00
7) Phenol-d6	7.010	99	3097334	80.758	ng		0.00
23) Nitrobenzene-d5	9.004	82	3112224	80.189	ng		0.00
42) 2,4,6-Tribromophenol	15.957	330	1456045	93.381	ng		0.00
45) 2-Fluorobiphenyl	13.104	172	8128934	78.224	ng		0.00
79) Terphenyl-d14	19.821	244	11967171	78.795	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.328	88	488601	39.055	ng		98
3) Pyridine	3.728	79	1300313	39.590	ng		96
4) n-Nitrosodimethylamine	3.634	42	561971	36.701	ng		91
6) Aniline	7.175	93	1983878	40.306	ng		98
8) 2-Chlorophenol	7.416	128	1317020	41.053	ng		98
9) Benzaldehyde	6.987	77	1171413	51.344	ng		97
10) Phenol	7.039	94	1589959	39.746	ng		98
11) bis(2-Chloroethyl)ether	7.269	93	1245931	38.892	ng		99
12) 1,3-Dichlorobenzene	7.739	146	1538457	39.439	ng		97
13) 1,4-Dichlorobenzene	7.886	146	1557390	39.099	ng		99
14) 1,2-Dichlorobenzene	8.198	146	1486144	38.971	ng		99
15) Benzyl Alcohol	8.086	79	1085979	40.187	ng		96
16) 2,2'-oxybis(1-Chloropr...	8.375	45	1758506	37.266	ng		99
17) 2-Methylphenol	8.286	107	1037160	39.975	ng		99
18) Hexachloroethane	8.933	117	547143	39.058	ng		93
19) n-Nitroso-di-n-propyla...	8.651	70	946520	40.738	ng		95
20) 3+4-Methylphenols	8.610	107	1404236	40.317	ng		96
22) Acetophenone	8.669	105	1899608	38.371	ng	#	96
24) Nitrobenzene	9.045	77	1359808	39.263	ng		97
25) Isophorone	9.575	82	2553883	40.552	ng		99
26) 2-Nitrophenol	9.751	139	687069	48.676	ng		98
27) 2,4-Dimethylphenol	9.816	122	1213714	40.409	ng		97
28) bis(2-Chloroethoxy)met...	10.051	93	1630857	39.081	ng		98
29) 2,4-Dichlorophenol	10.286	162	1295771	41.992	ng		98
30) 1,2,4-Trichlorobenzene	10.504	180	1491395	40.402	ng		99
31) Naphthalene	10.692	128	3903650	38.814	ng		100
32) Benzoic acid	9.933	122	837102	45.728	ng		98
33) 4-Chloroaniline	10.792	127	1719857	40.450	ng		99
34) Hexachlorobutadiene	10.986	225	916621	40.685	ng		99
35) Caprolactam	11.574	113	373128	44.295	ng		92
36) 4-Chloro-3-methylphenol	11.916	107	1197560	41.560	ng		99
37) 2-Methylnaphthalene	12.304	142	2558937	40.297	ng		97
38) 1-Methylnaphthalene	12.521	142	2704024	40.236	ng		100
40) 1,2,4,5-Tetrachloroben...	12.669	216	1663387	40.759	ng		99
41) Hexachlorocyclopentadiene	12.657	237	1118542	42.878	ng		99
43) 2,4,6-Trichlorophenol	12.910	196	1100183	43.796	ng		98

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.974	196	1195616	43.580	ng		98
46) 1,1'-Biphenyl	13.310	154	3710435	38.969	ng		100
47) 2-Chloronaphthalene	13.351	162	2952862	38.897	ng		99
48) 2-Nitroaniline	13.545	65	749098	44.208	ng		96
49) Acenaphthylene	14.198	152	4570033	39.833	ng		99
50) Dimethylphthalate	13.933	163	3557955	40.270	ng		100
51) 2,6-Dinitrotoluene	14.045	165	752656	44.367	ng		93
52) Acenaphthene	14.539	154	2753717m	37.753	ng		
53) 3-Nitroaniline	14.368	138	800610	44.377	ng		100
54) 2,4-Dinitrophenol	14.574	184	423149	47.990	ng	#	81
55) Dibenzofuran	14.874	168	4385210	39.019	ng		99
56) 4-Nitrophenol	14.674	139	682725	44.005	ng		90
57) 2,4-Dinitrotoluene	14.827	165	1044862	41.533	ng		93
58) Fluorene	15.521	166	3648772	39.416	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.098	232	1025002	44.383	ng		95
60) Diethylphthalate	15.292	149	3392307	40.194	ng		100
61) 4-Chlorophenyl-phenyle...	15.515	204	1915512	39.573	ng		98
62) 4-Nitroaniline	15.527	138	822296	40.096	ng		98
63) Azobenzene	15.804	77	2969500	38.317	ng		98
65) 4,6-Dinitro-2-methylph...	15.586	198	615347	45.431	ng		92
66) n-Nitrosodiphenylamine	15.721	169	3099051	38.981	ng		100
67) 4-Bromophenyl-phenylether	16.404	248	1149552	41.067	ng		98
68) Hexachlorobenzene	16.521	284	1343279	40.631	ng		95
69) Atrazine	16.674	200	1110720	42.547	ng		98
70) Pentachlorophenol	16.856	266	914812	44.450	ng		99
71) Phenanthrene	17.251	178	5539099	38.529	ng		99
72) Anthracene	17.339	178	5640684	39.417	ng		100
73) Carbazole	17.603	167	5129252	39.613	ng		99
74) Di-n-butylphthalate	18.174	149	5854924	41.312	ng		100
75) Fluoranthene	19.256	202	6437692	41.191	ng		99
77) Benzidine	19.439	184	3790549	55.614	ng		99
78) Pyrene	19.615	202	6803242	39.752	ng		100
80) Butylbenzylphthalate	20.515	149	2668401	47.286	ng		97
81) Benzo(a)anthracene	21.415	228	7013399	40.281	ng		99
82) 3,3'-Dichlorobenzidine	21.333	252	2698245	45.953	ng		100
83) Chrysene	21.480	228	6546903	39.865	ng		100
84) Bis(2-ethylhexyl)phtha...	21.339	149	4036567	45.060	ng		97
85) Di-n-octyl phthalate	22.486	149	6851874	48.835	ng		97
87) Indeno(1,2,3-cd)pyrene	27.879	276	8469643	41.147	ng		99
88) Benzo(b)fluoranthene	23.503	252	6956656	39.066	ng		100
89) Benzo(k)fluoranthene	23.568	252	6961471	37.675	ng		100
90) Benzo(a)pyrene	24.315	252	6693276	40.152	ng		99
91) Dibenzo(a,h)anthracene	27.944	278	7041108	40.618	ng		99
92) Benzo(g,h,i)perylene	28.944	276	6723327	41.037	ng		99

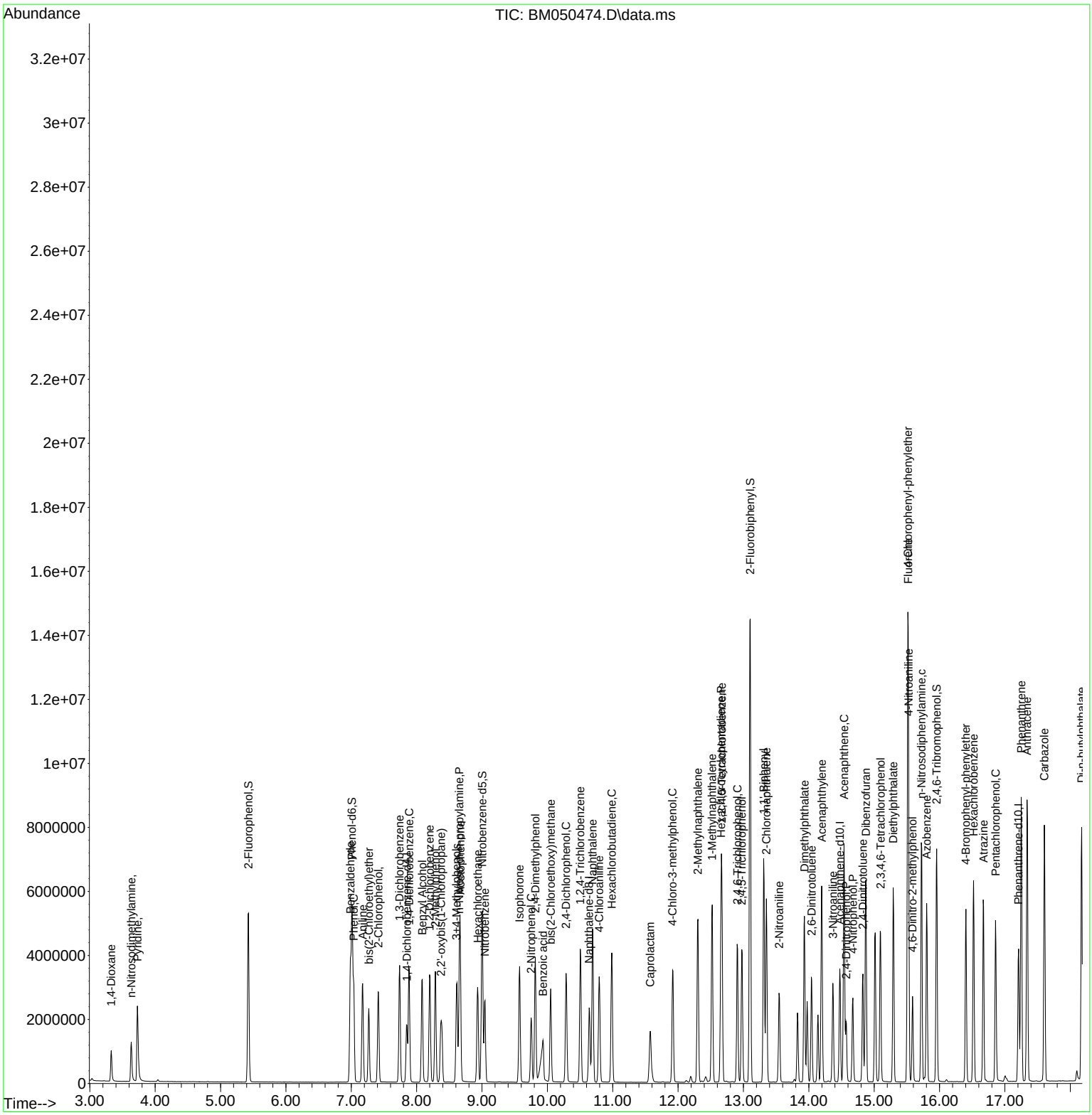
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

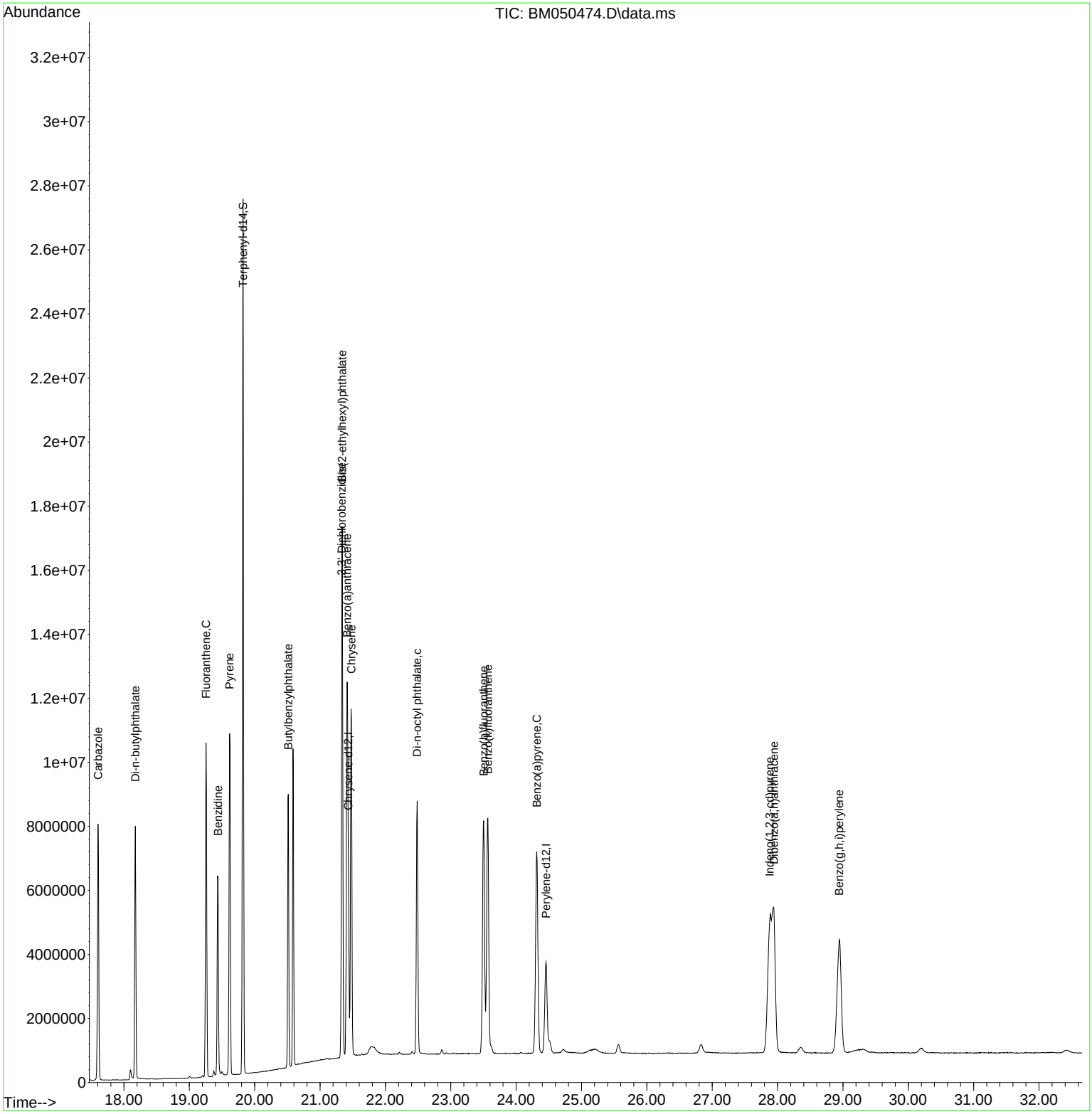


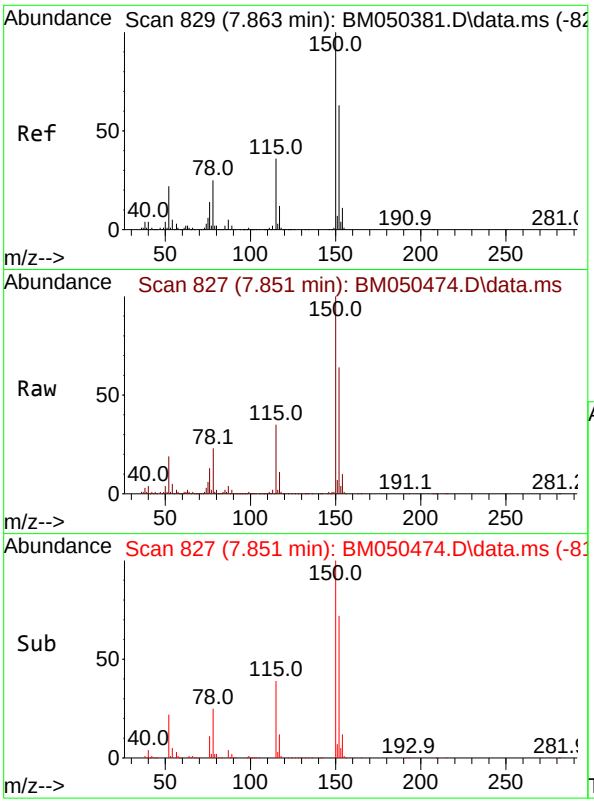
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

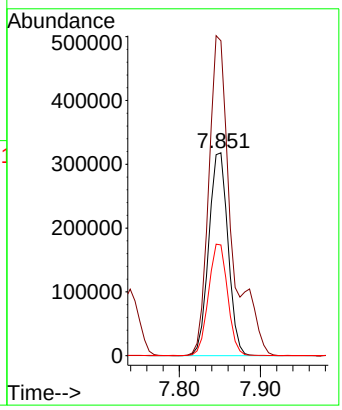




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.851 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:152 Resp: 52370

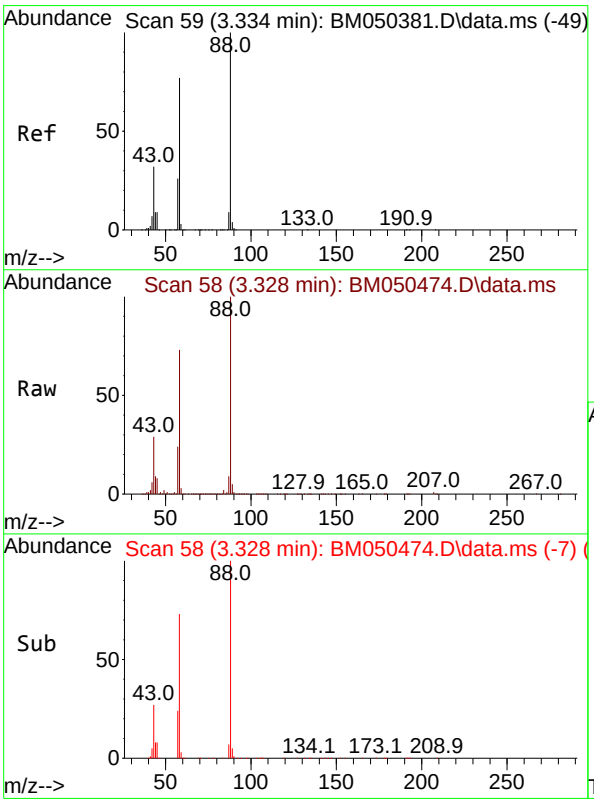
Ion	Ratio	Lower	Upper
152	100		
150	155.2	126.2	189.4
115	54.5	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

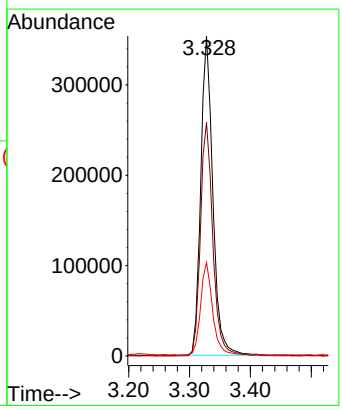
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

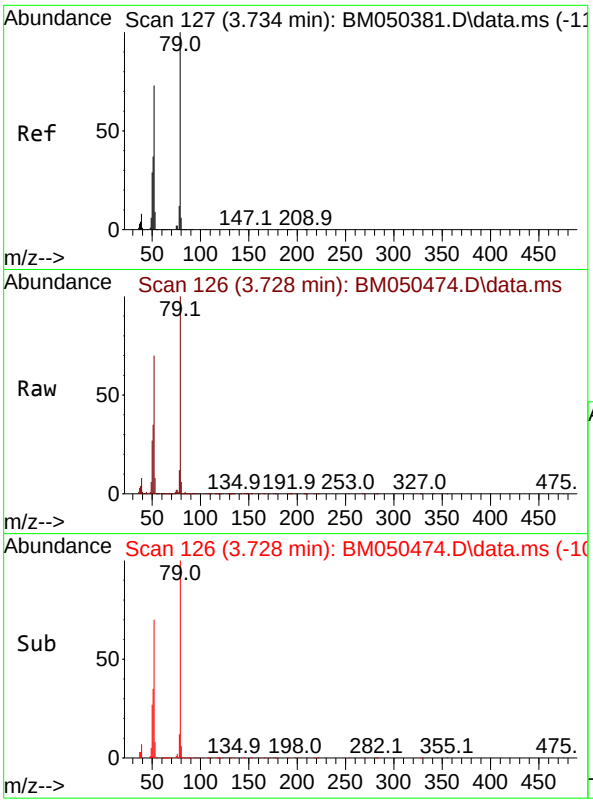


#2
1,4-Dioxane
Concen: 39.055 ng
RT: 3.328 min Scan# 58
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 88 Resp: 488601

Ion	Ratio	Lower	Upper
88	100		
58	75.1	61.0	91.6
43	29.0	24.6	37.0

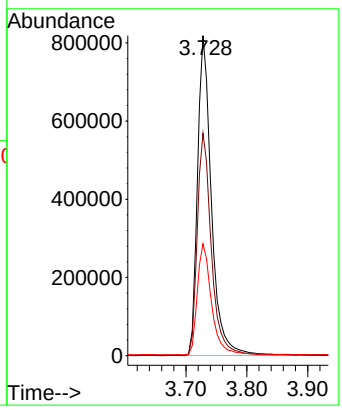




#3
Pyridine
Concen: 39.590 ng
RT: 3.728 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 79 Resp: 130031

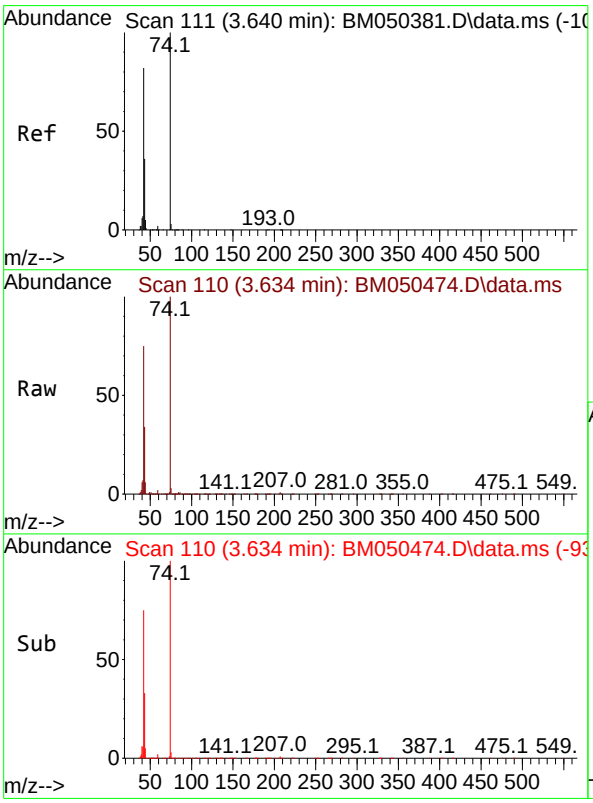
Ion	Ratio	Lower	Upper
79	100		
52	69.5	58.3	87.5
51	35.0	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

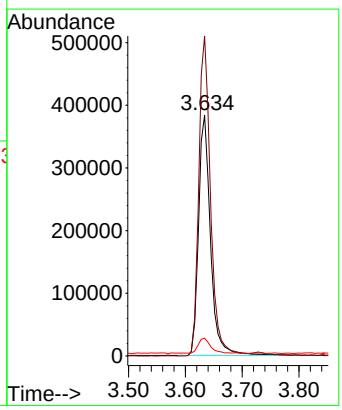
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

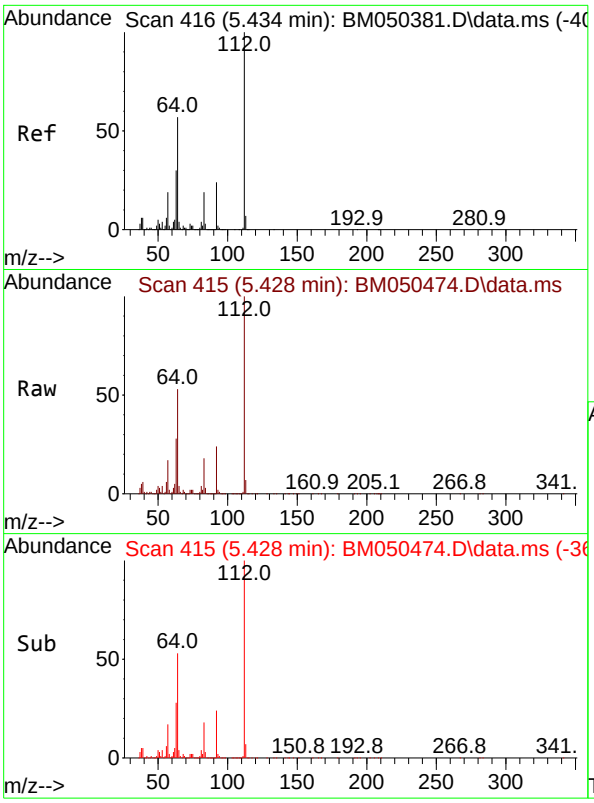


#4
n-Nitrosodimethylamine
Concen: 36.701 ng
RT: 3.634 min Scan# 110
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 42 Resp: 561971

Ion	Ratio	Lower	Upper
42	100		
74	132.8	97.5	146.3
44	7.4	5.7	8.5

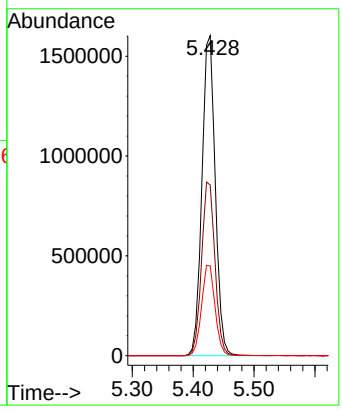




#5
2-Fluorophenol
Concen: 80.224 ng
RT: 5.428 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:112 Resp: 244074

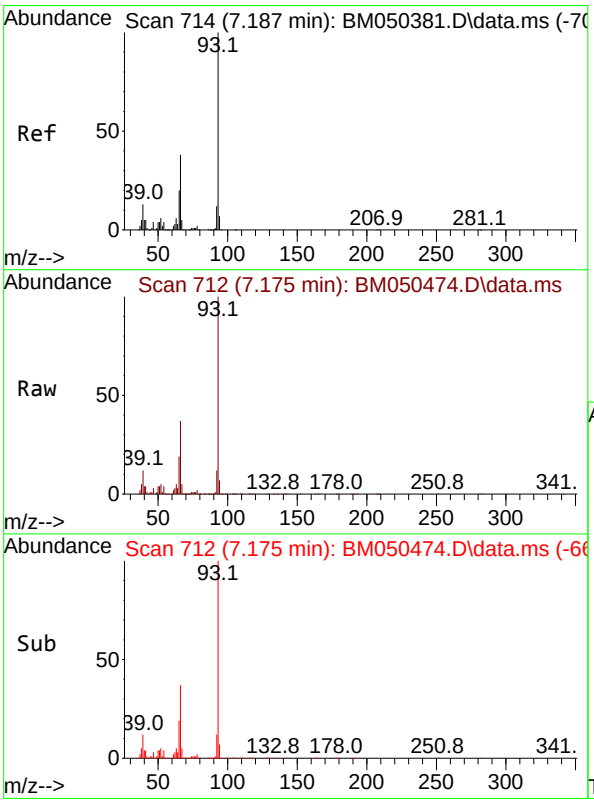
Ion	Ratio	Lower	Upper
112	100		
64	53.3	45.5	68.3
63	28.1	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

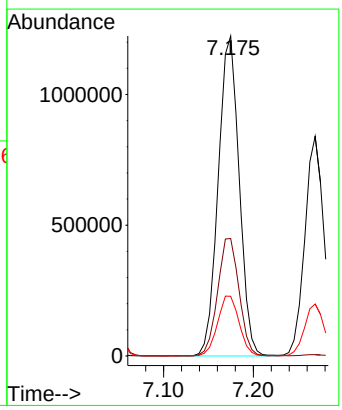
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

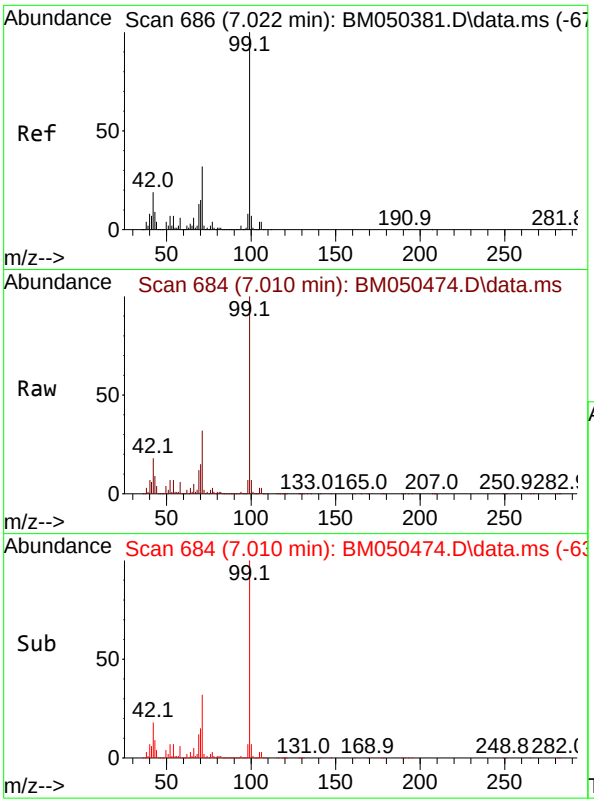


#6
Aniline
Concen: 40.306 ng
RT: 7.175 min Scan# 712
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 93 Resp: 1983878

Ion	Ratio	Lower	Upper
93	100		
66	36.7	30.5	45.7
65	18.7	15.9	23.9

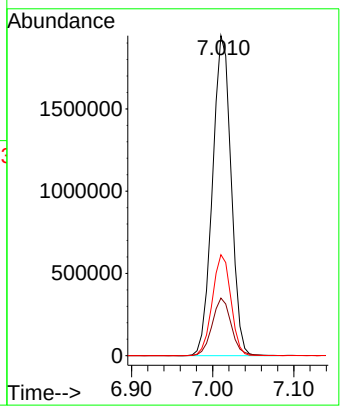




#7
Phenol-d6
Concen: 80.758 ng
RT: 7.010 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 99 Resp: 309733

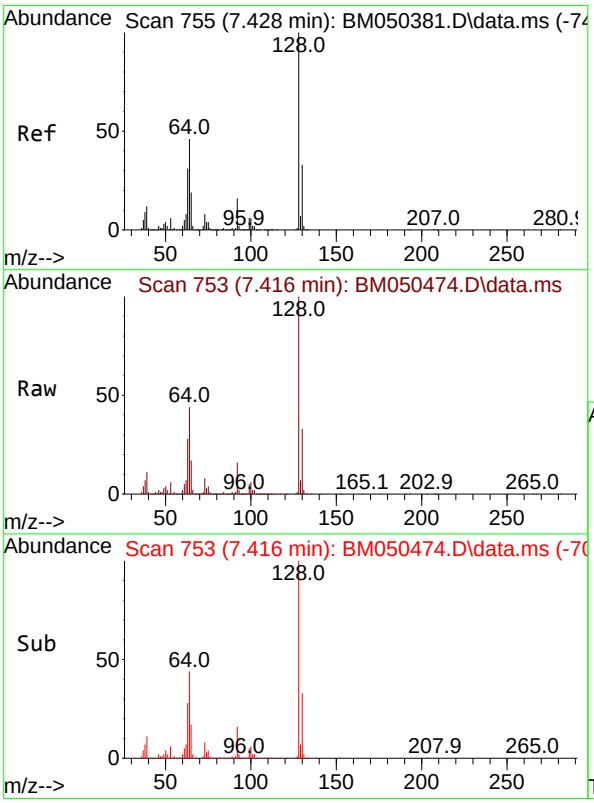
Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.0	22.6
71	31.6	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

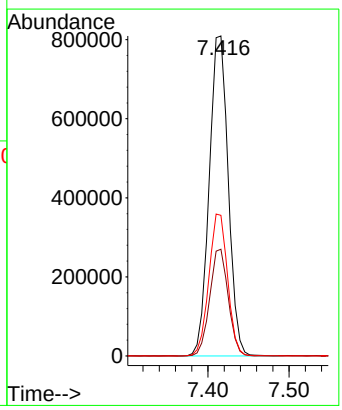
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

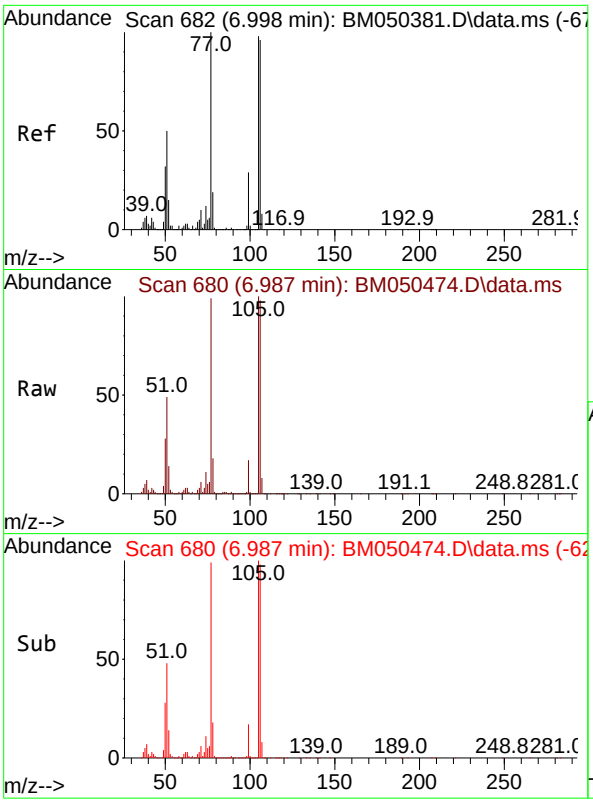


#8
2-Chlorophenol
Concen: 41.053 ng
RT: 7.416 min Scan# 753
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:128 Resp: 1317020

Ion	Ratio	Lower	Upper
128	100		
130	33.4	13.3	53.3
64	43.9	25.6	65.6

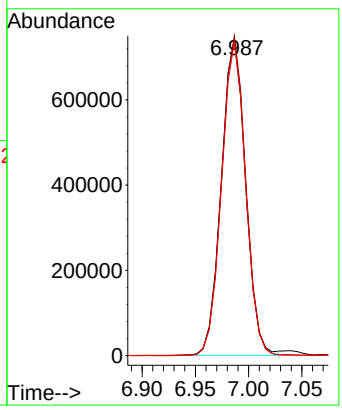




#9
Benzaldehyde
Concen: 51.344 ng
RT: 6.987 min Scan# 6
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

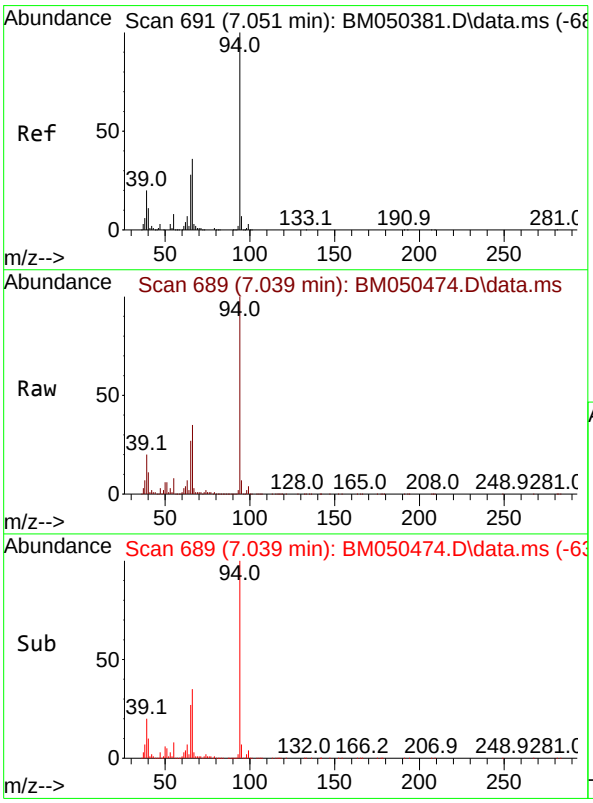
Tgt Ion: 77 Resp: 117141

Ion	Ratio	Lower	Upper
77	100		
105	101.4	78.4	118.4
106	99.3	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

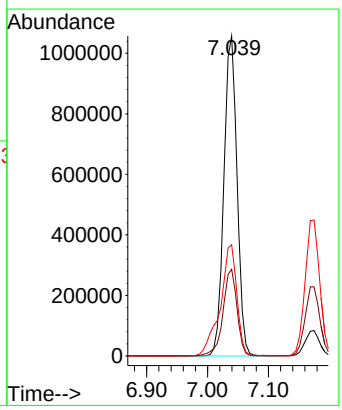
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

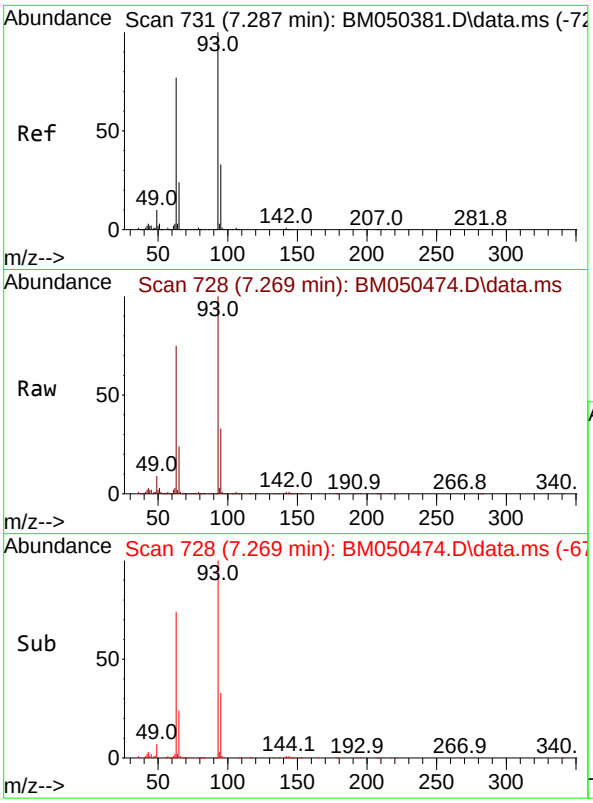


#10
Phenol
Concen: 39.746 ng
RT: 7.039 min Scan# 689
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 94 Resp: 1589959

Ion	Ratio	Lower	Upper
94	100		
65	27.1	8.1	48.1
66	34.8	15.8	55.8

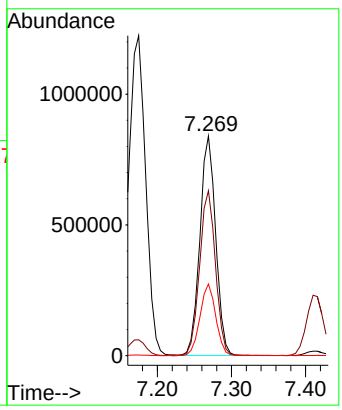




#11
bis(2-Chloroethyl)ether
Concen: 38.892 ng
RT: 7.269 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 93 Resp: 124593

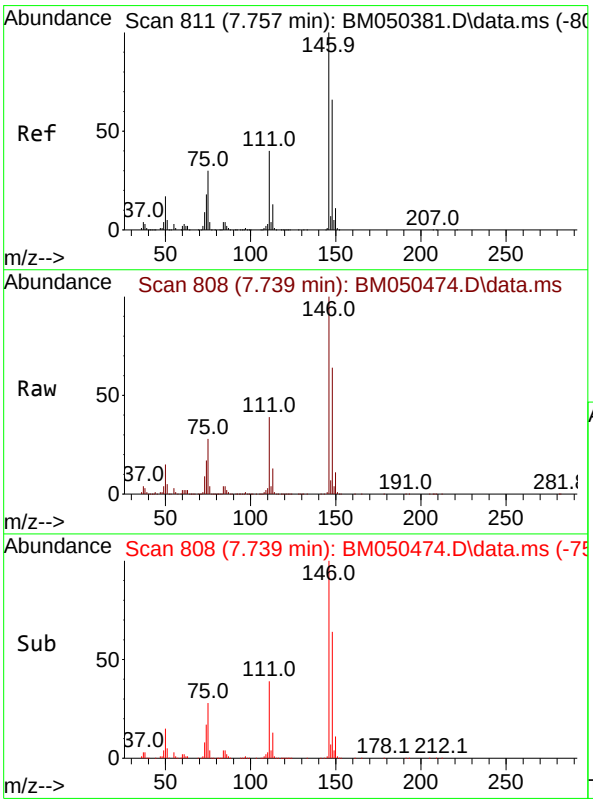
Ion	Ratio	Lower	Upper
93	100		
63	75.1	56.9	96.9
95	32.6	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

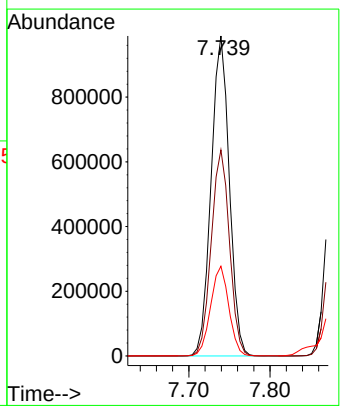
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

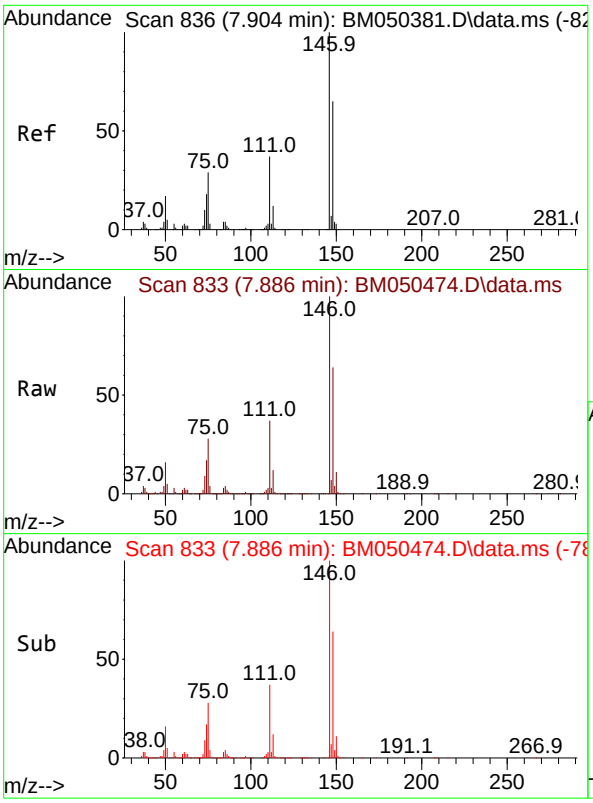


#12
1,3-Dichlorobenzene
Concen: 39.439 ng
RT: 7.739 min Scan# 808
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:146 Resp: 1538457

Ion	Ratio	Lower	Upper
146	100		
148	64.4	53.2	79.8
75	28.0	23.9	35.9

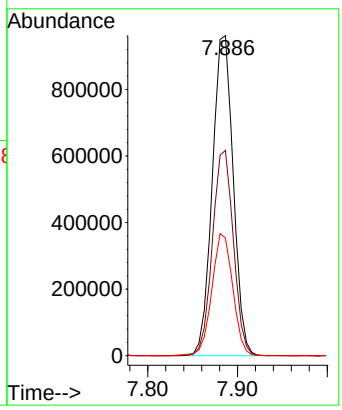




#13
1,4-Dichlorobenzene
Concen: 39.099 ng
RT: 7.886 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:146 Resp: 155739

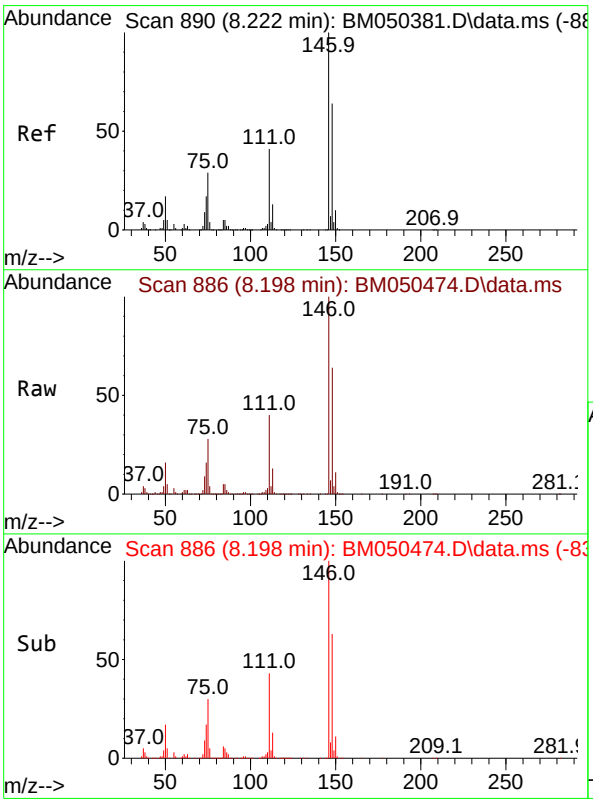
Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.9	77.9
111	36.8	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

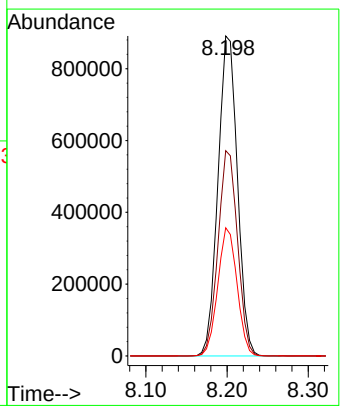
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

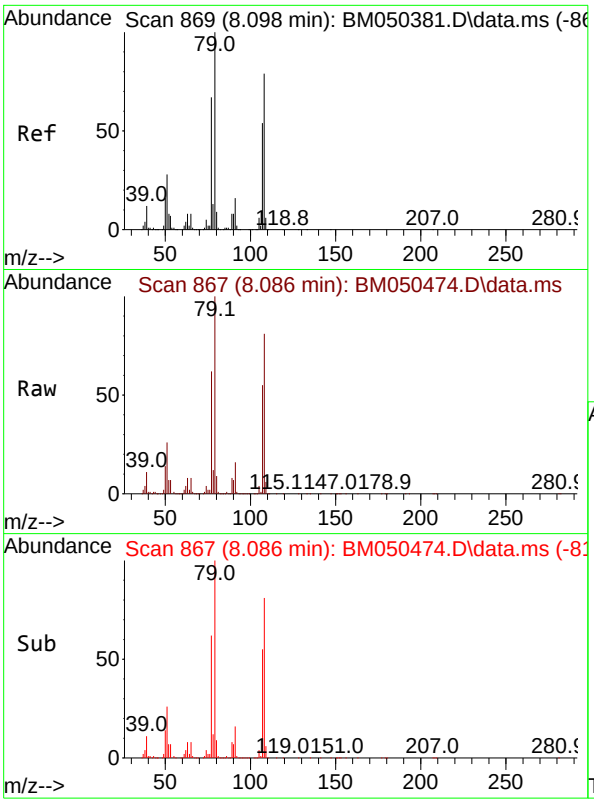


#14
1,2-Dichlorobenzene
Concen: 38.971 ng
RT: 8.198 min Scan# 886
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:146 Resp: 1486144

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.5	77.3
111	40.0	32.6	49.0

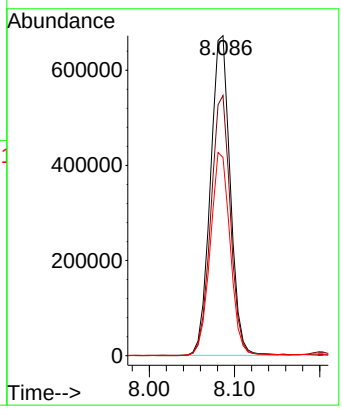




#15
Benzyl Alcohol
Concen: 40.187 ng
RT: 8.086 min Scan# 8
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 79 Resp: 108597

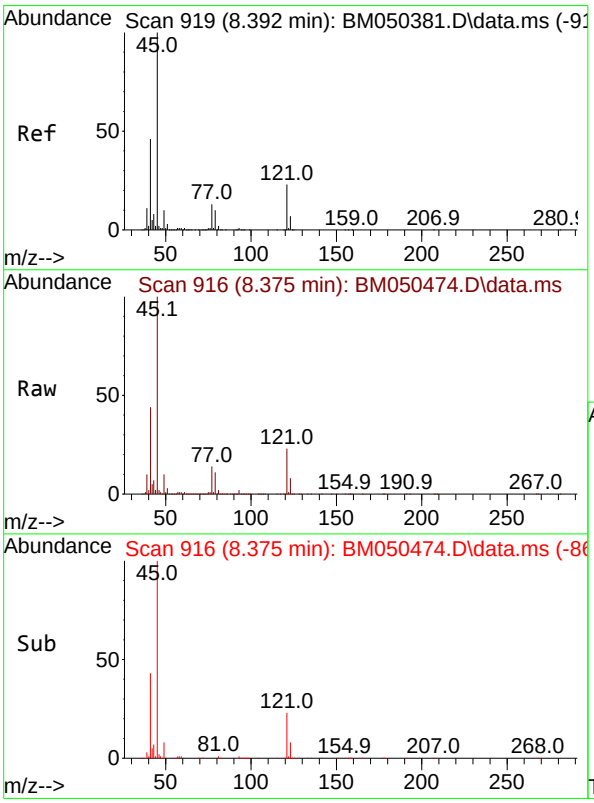
Ion	Ratio	Lower	Upper
79	100		
108	81.3	63.0	94.4
77	62.0	53.4	80.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

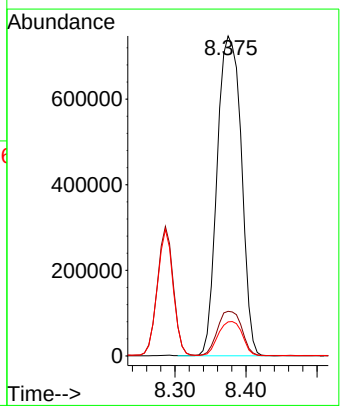
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

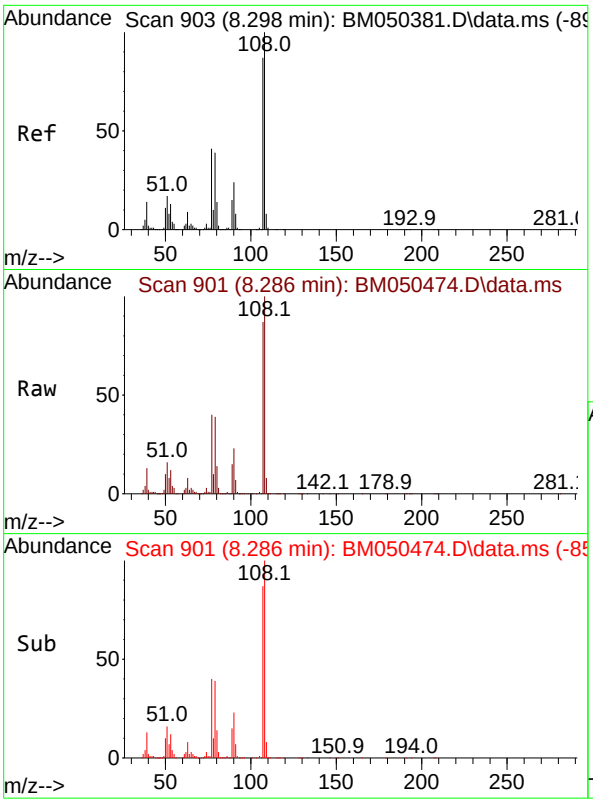


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.266 ng
RT: 8.375 min Scan# 916
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 45 Resp: 1758506

Ion	Ratio	Lower	Upper
45	100		
77	13.9	0.0	33.5
79	10.7	0.0	30.3

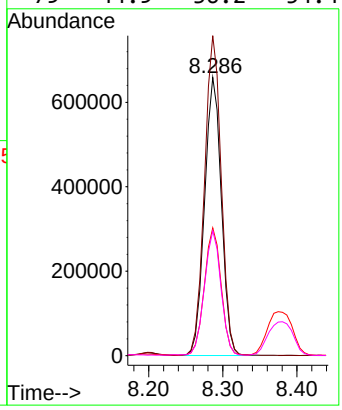




#17
2-Methylphenol
Concen: 39.975 ng
RT: 8.286 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:107 Resp: 103716(

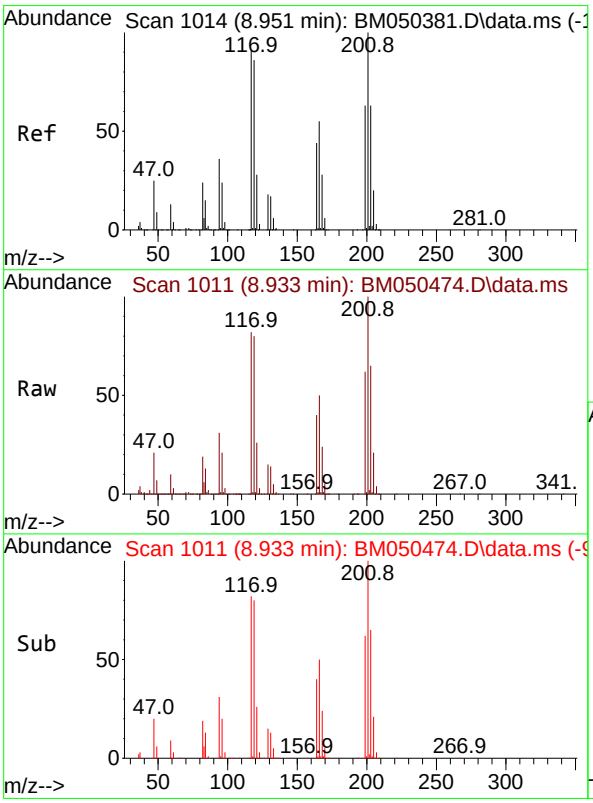
Ion	Ratio	Lower	Upper
107	100		
108	115.0	92.1	138.1
77	46.0	38.2	57.4
79	44.9	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

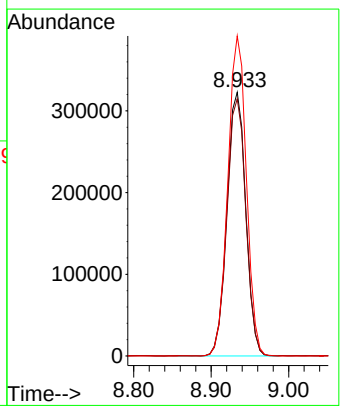
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

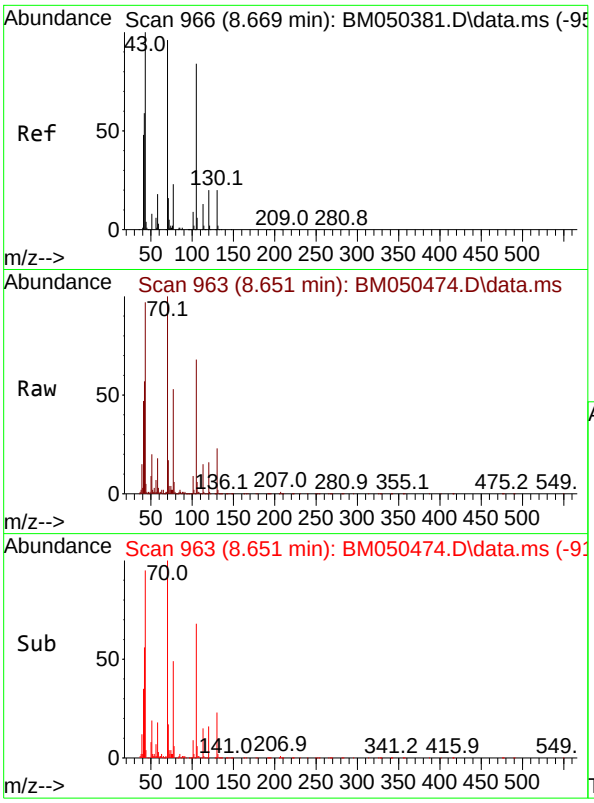


#18
Hexachloroethane
Concen: 39.058 ng
RT: 8.933 min Scan# 1011
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:117 Resp: 547143

Ion	Ratio	Lower	Upper
117	100		
119	97.5	75.6	113.4
201	121.4	87.9	131.9

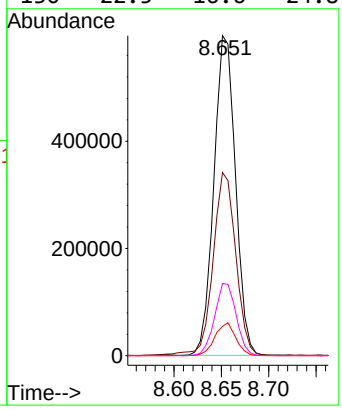




#19
n-Nitroso-di-n-propylamine
Concen: 40.738 ng
RT: 8.651 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 70 Resp: 94652(

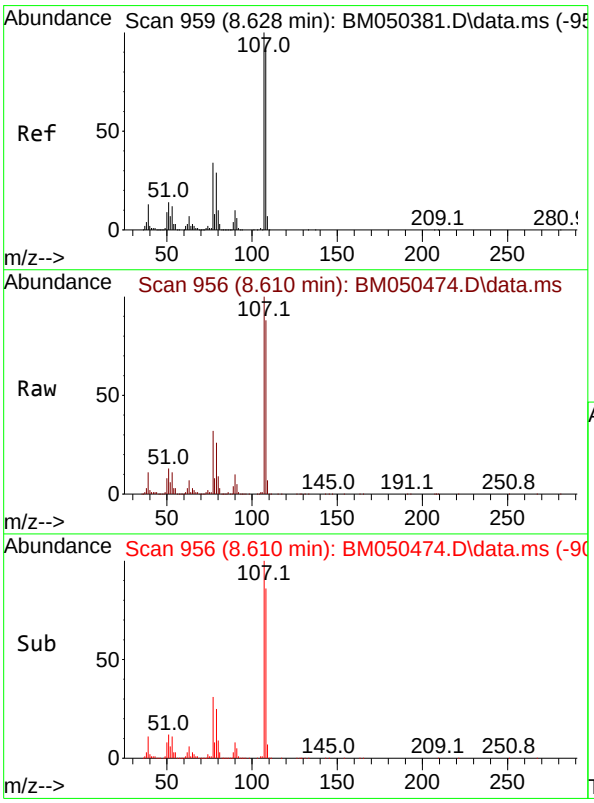
Ion	Ratio	Lower	Upper
70	100		
42	57.3	49.7	74.5
101	9.1	7.7	11.5
130	22.5	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

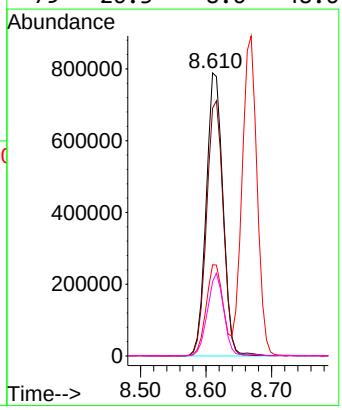
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

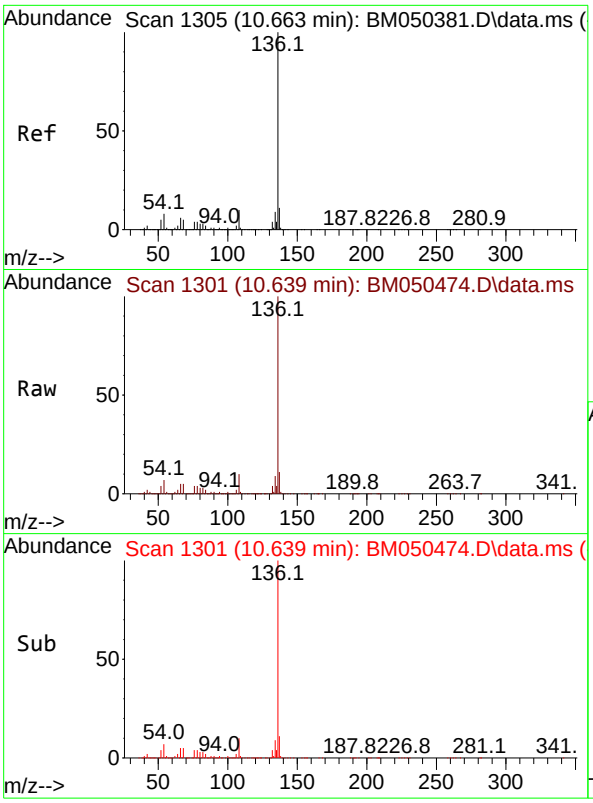


#20
3+4-Methylphenols
Concen: 40.317 ng
RT: 8.610 min Scan# 956
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:107 Resp: 1404236

Ion	Ratio	Lower	Upper
107	100		
108	87.5	71.5	111.5
77	32.2	13.7	53.7
79	26.3	8.6	48.6

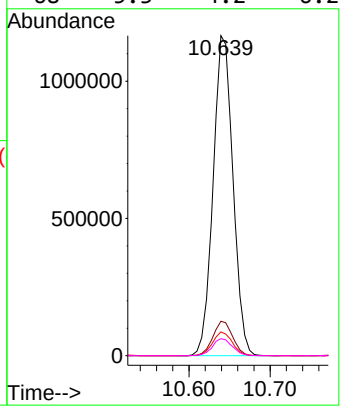




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.639 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:136 Resp: 198005

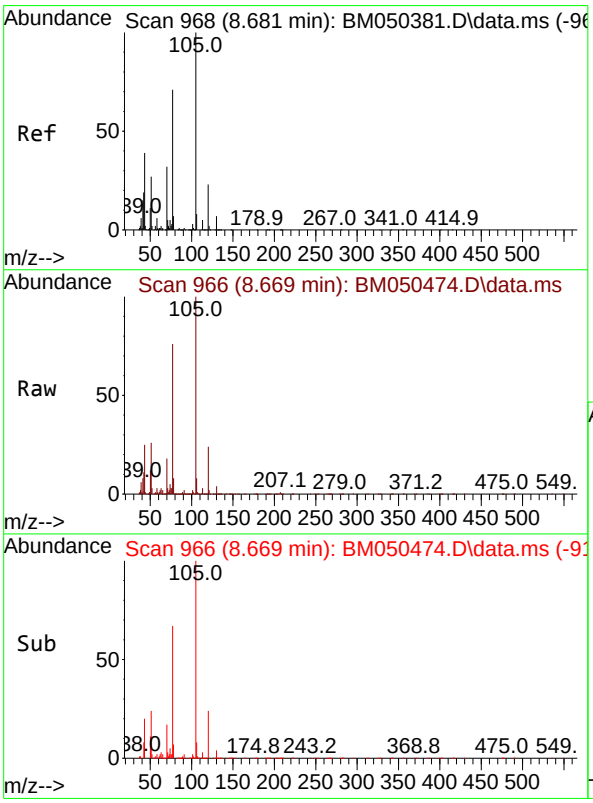
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	7.5	6.3	9.5
68	5.3	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

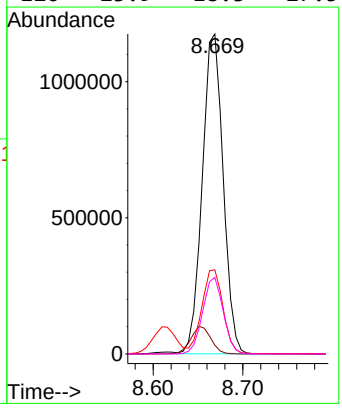
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

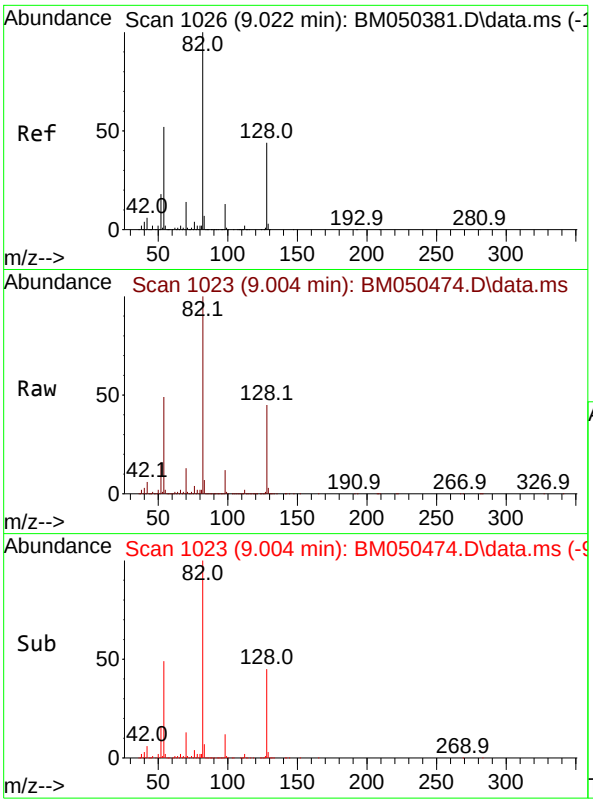


#22
Acetophenone
Concen: 38.371 ng
RT: 8.669 min Scan# 966
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:105 Resp: 1899608

Ion	Ratio	Lower	Upper
105	100		
71	2.7	4.4	6.6#
51	26.3	23.0	34.6
120	23.9	18.3	27.5





#23
Nitrobenzene-d5
Concen: 80.189 ng
RT: 9.004 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

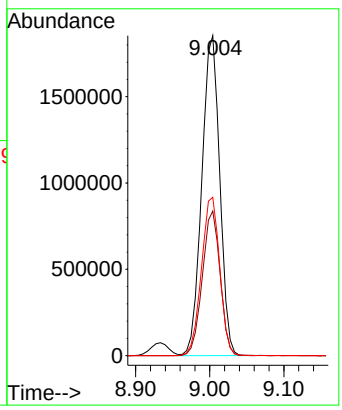
Tgt Ion: 82 Resp: 311222

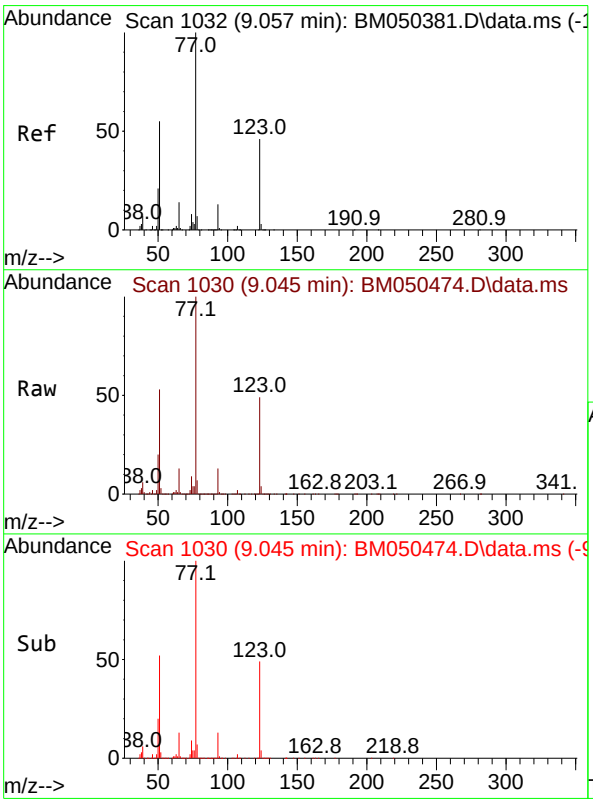
Ion	Ratio	Lower	Upper
82	100		
128	45.2	35.2	52.8
54	49.5	41.5	62.3

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

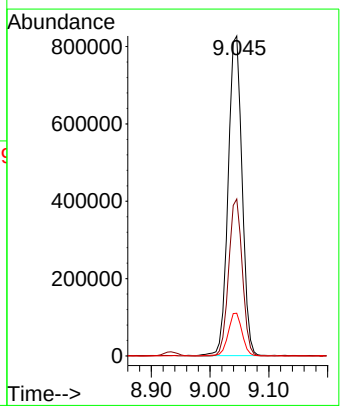


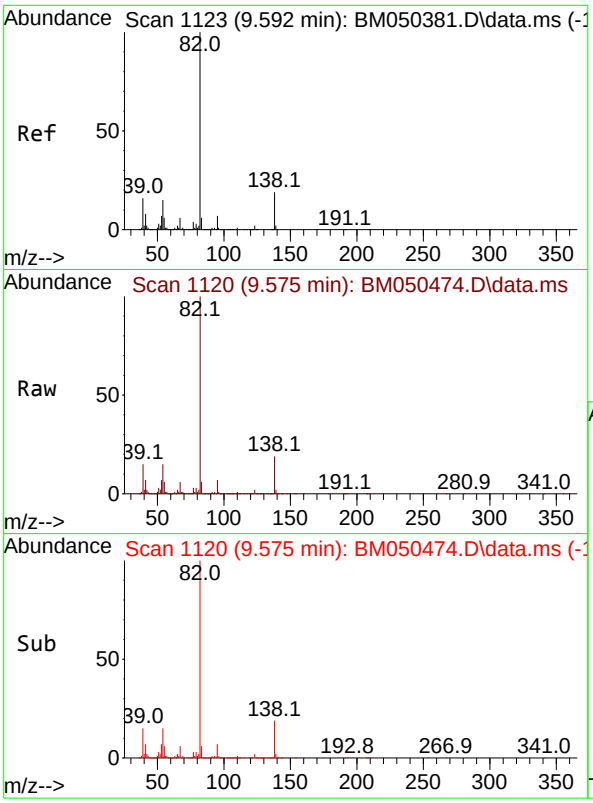


#24
Nitrobenzene
Concen: 39.263 ng
RT: 9.045 min Scan# 1030
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 77 Resp: 1359808

Ion	Ratio	Lower	Upper
77	100		
123	49.1	37.0	55.6
65	13.4	11.0	16.4

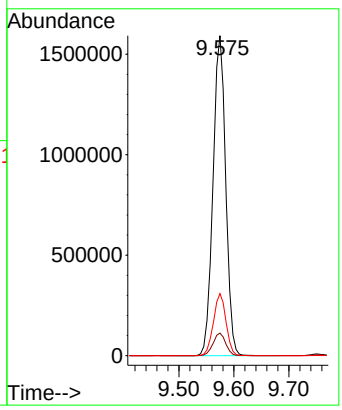




#25
Isophorone
Concen: 40.552 ng
RT: 9.575 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 82 Resp: 255388

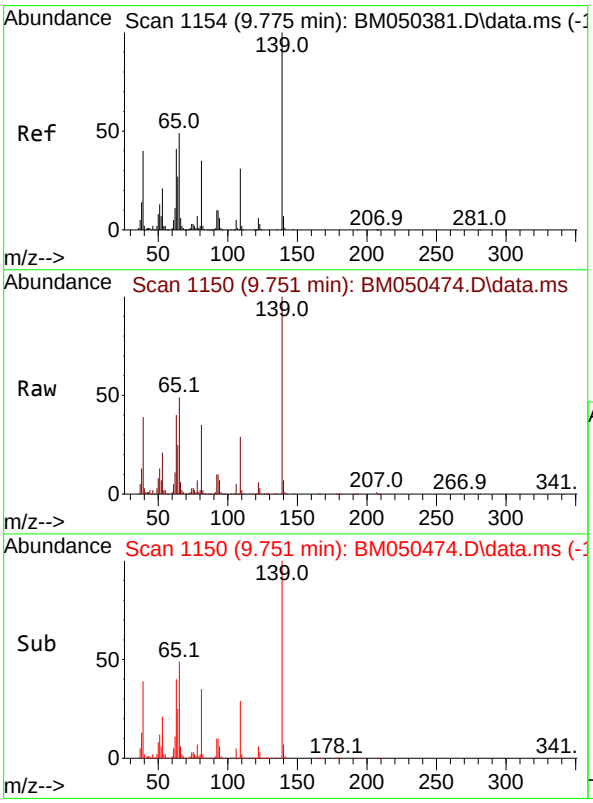
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	19.4	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

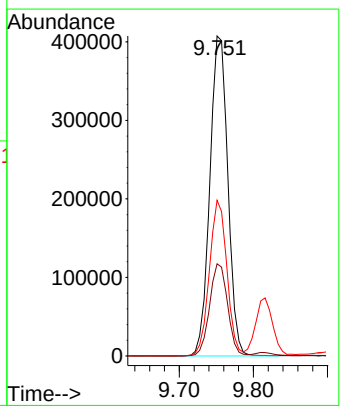
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

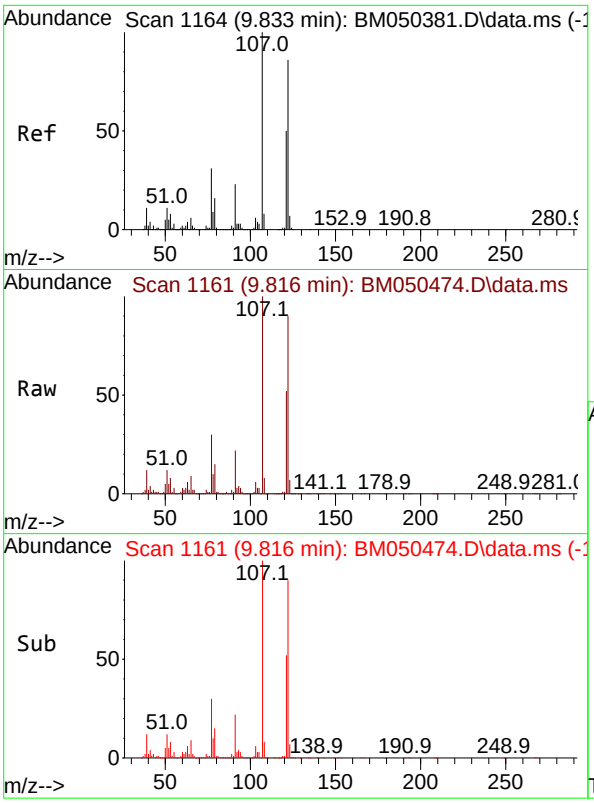


#26
2-Nitrophenol
Concen: 48.676 ng
RT: 9.751 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:139 Resp: 687069

Ion	Ratio	Lower	Upper
139	100		
109	28.8	24.6	36.8
65	48.6	39.2	58.8

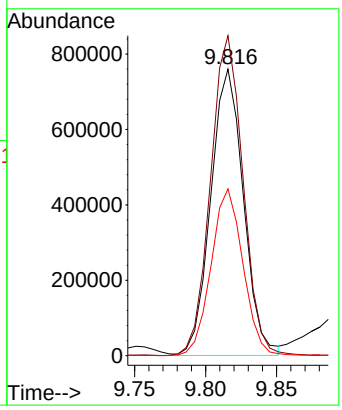




#27
2,4-Dimethylphenol
Concen: 40.409 ng
RT: 9.816 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:122 Resp: 121371

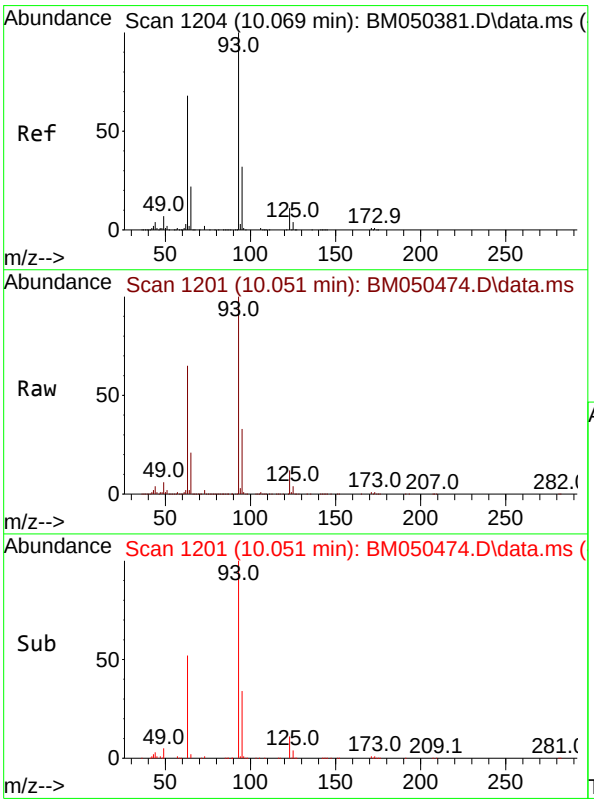
Ion	Ratio	Lower	Upper
122	100		
107	111.7	93.0	139.6
121	58.3	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

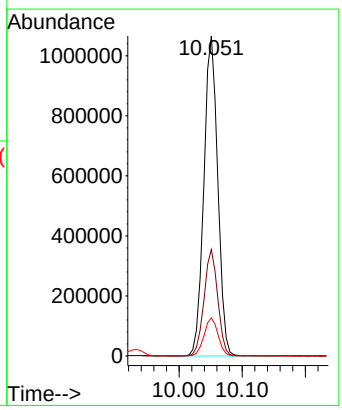
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

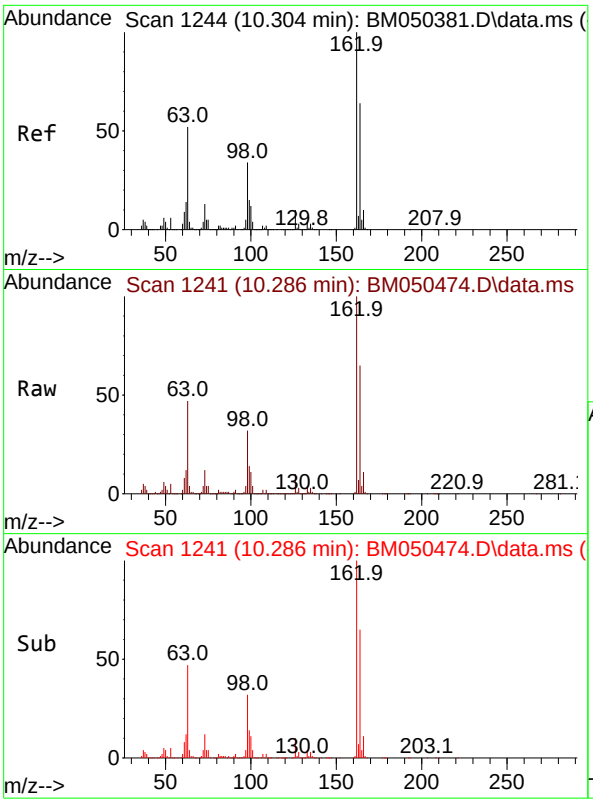


#28
bis(2-Chloroethoxy)methane
Concen: 39.081 ng
RT: 10.051 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 93 Resp: 1630857

Ion	Ratio	Lower	Upper
93	100		
95	33.3	25.8	38.6
123	11.9	9.1	13.7

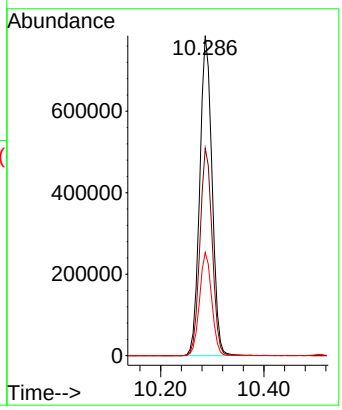




#29
2,4-Dichlorophenol
Concen: 41.992 ng
RT: 10.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:162 Resp: 129577

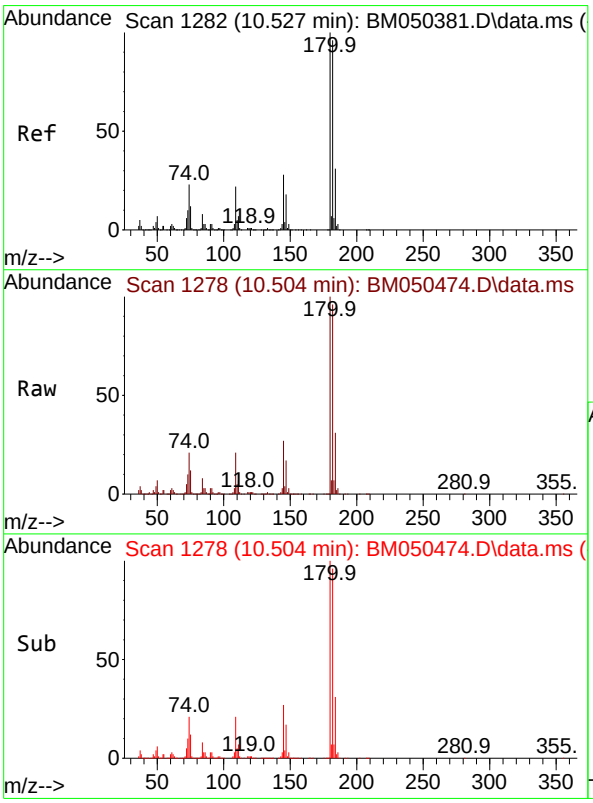
Ion	Ratio	Lower	Upper
162	100		
164	64.8	43.7	83.7
98	32.3	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

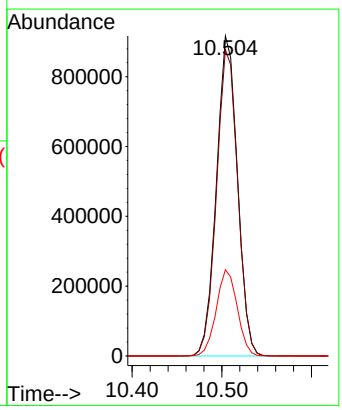
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

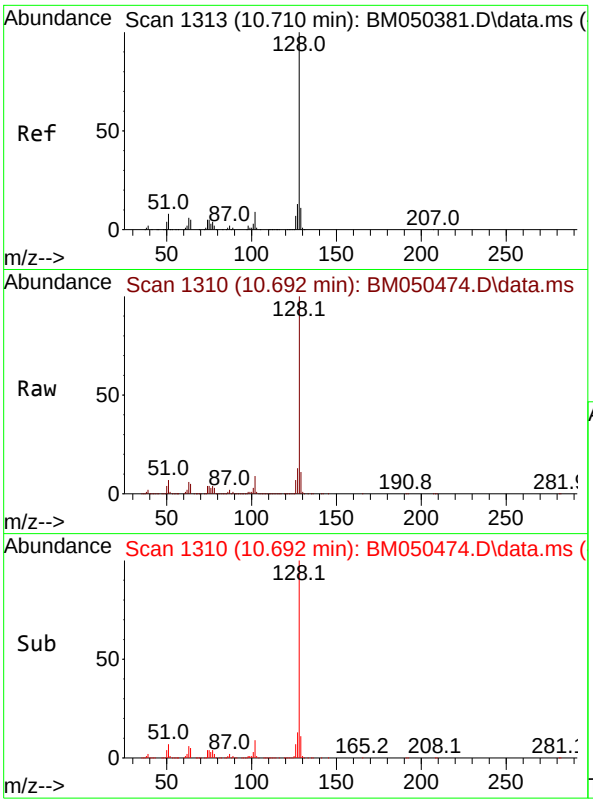


#30
1,2,4-Trichlorobenzene
Concen: 40.402 ng
RT: 10.504 min Scan# 1278
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:180 Resp: 1491395

Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.8	115.2
145	27.0	22.6	33.8

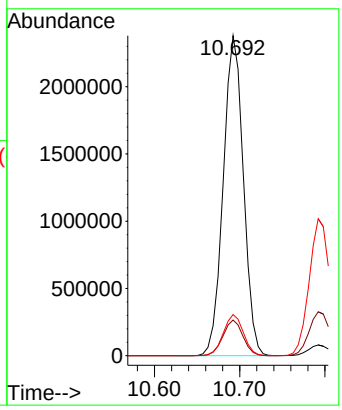




#31
Naphthalene
Concen: 38.814 ng
RT: 10.692 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:128 Resp: 390365

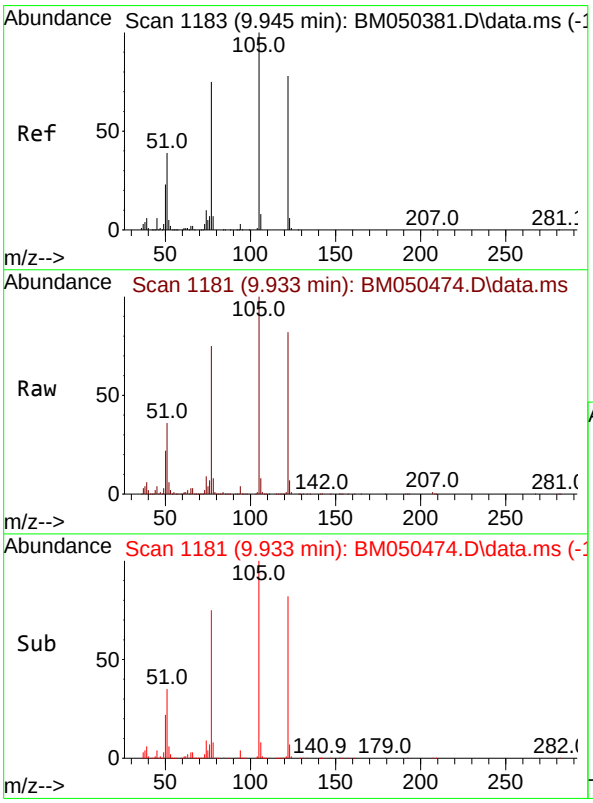
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.8	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

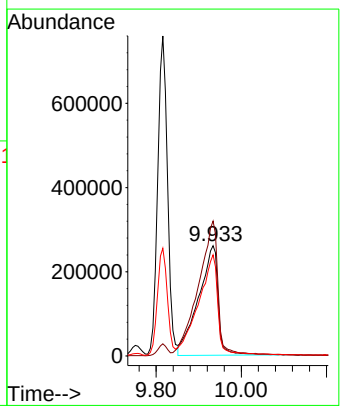
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

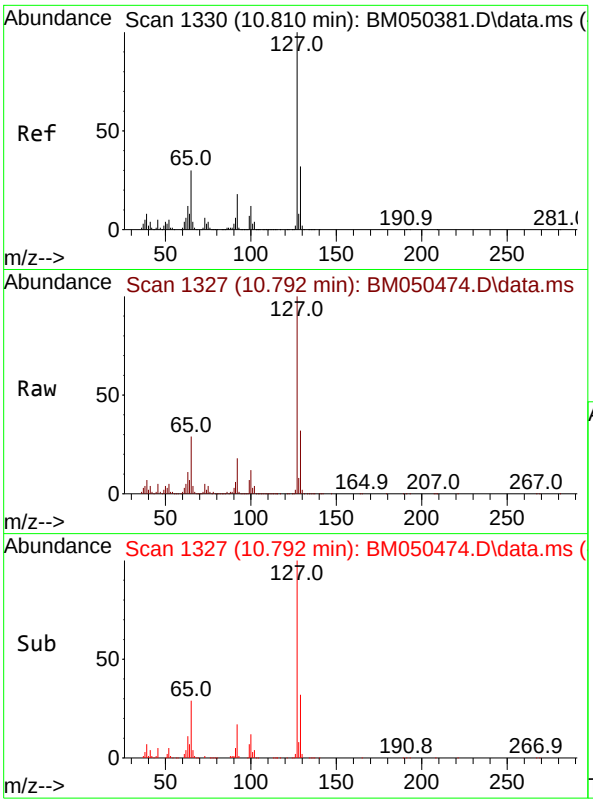


#32
Benzoic acid
Concen: 45.728 ng
RT: 9.933 min Scan# 1181
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:122 Resp: 837102

Ion	Ratio	Lower	Upper
122	100		
105	122.3	104.0	144.0
77	91.6	73.8	113.8

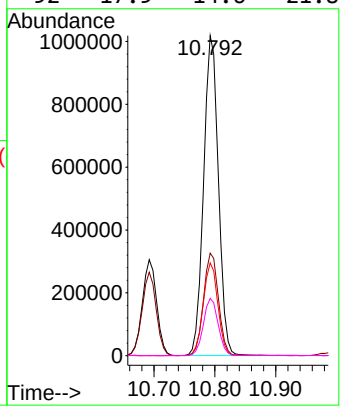




#33
4-Chloroaniline
Concen: 40.450 ng
RT: 10.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:127 Resp: 171985

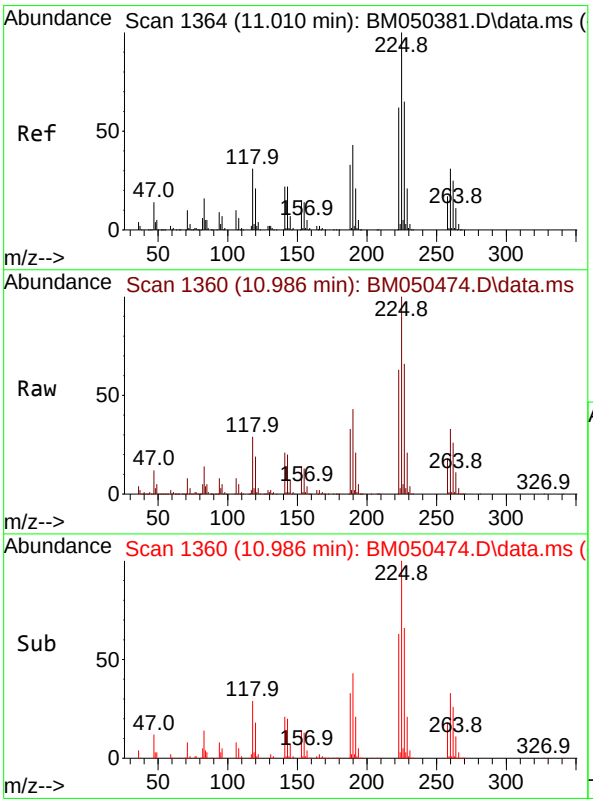
Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.5	38.3
65	29.0	23.9	35.9
92	17.9	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

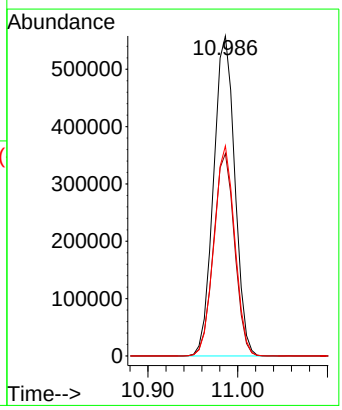
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

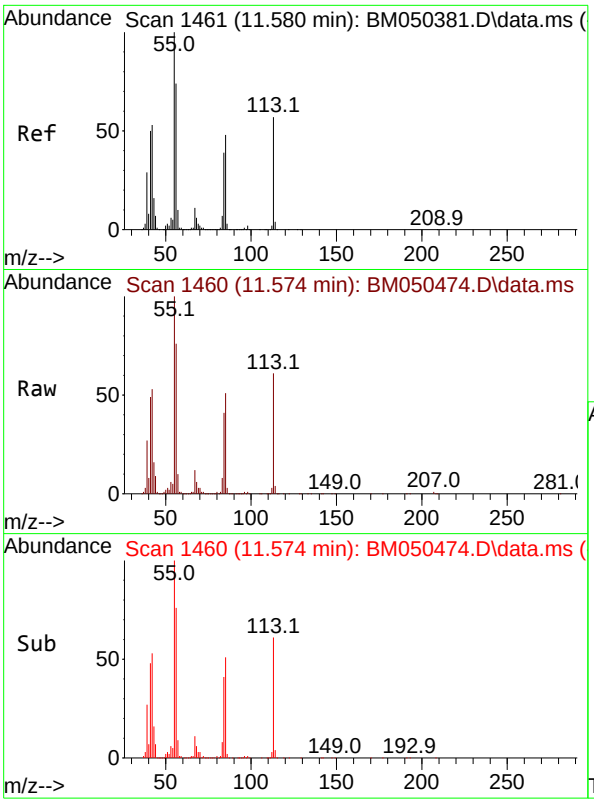


#34
Hexachlorobutadiene
Concen: 40.685 ng
RT: 10.986 min Scan# 1360
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:225 Resp: 916621

Ion	Ratio	Lower	Upper
225	100		
223	63.2	49.7	74.5
227	65.7	52.1	78.1

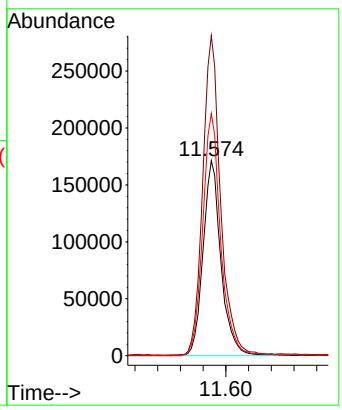




#35
Caprolactam
Concen: 44.295 ng
RT: 11.574 min Scan# 14
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:113 Resp: 37312

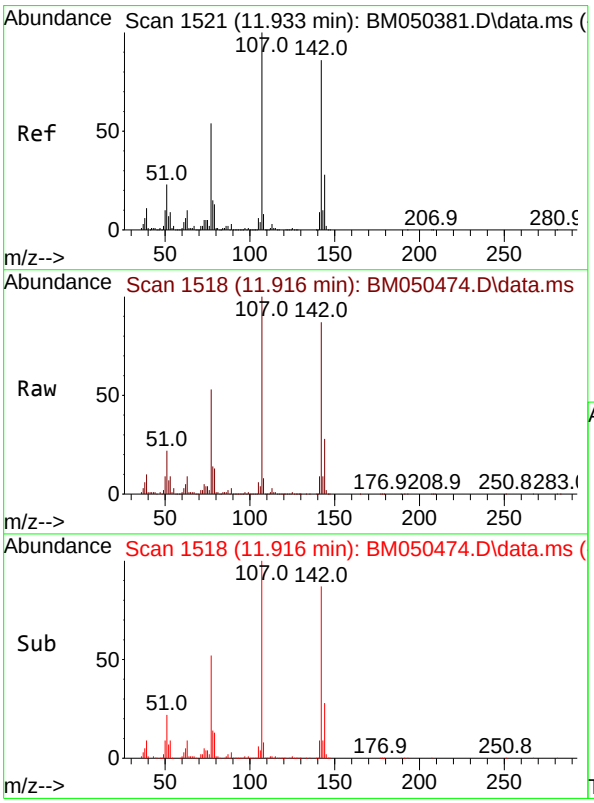
Ion	Ratio	Lower	Upper
113	100		
55	164.1	157.2	197.2
56	124.2	111.7	151.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

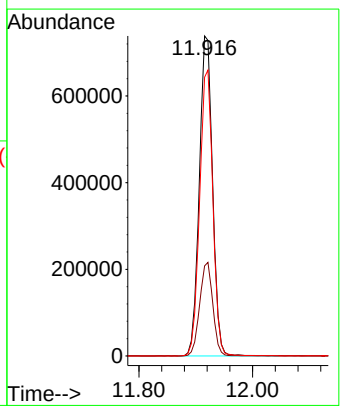
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

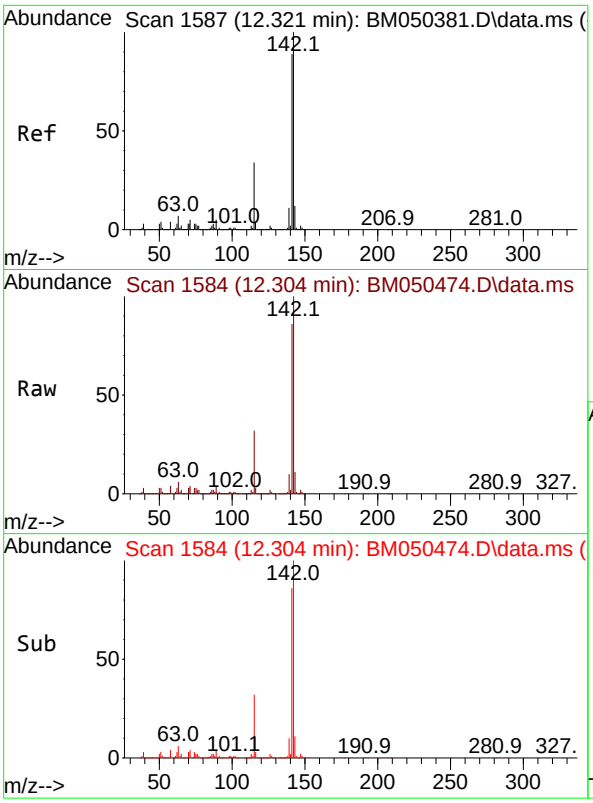


#36
4-Chloro-3-methylphenol
Concen: 41.560 ng
RT: 11.916 min Scan# 1518
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:107 Resp: 1197560

Ion	Ratio	Lower	Upper
107	100		
144	28.1	22.2	33.4
142	87.1	68.7	103.1

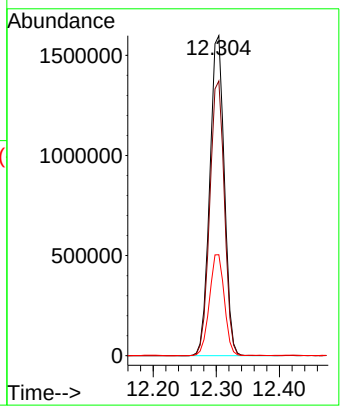




#37
2-Methylnaphthalene
Concen: 40.297 ng
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:142 Resp: 255893

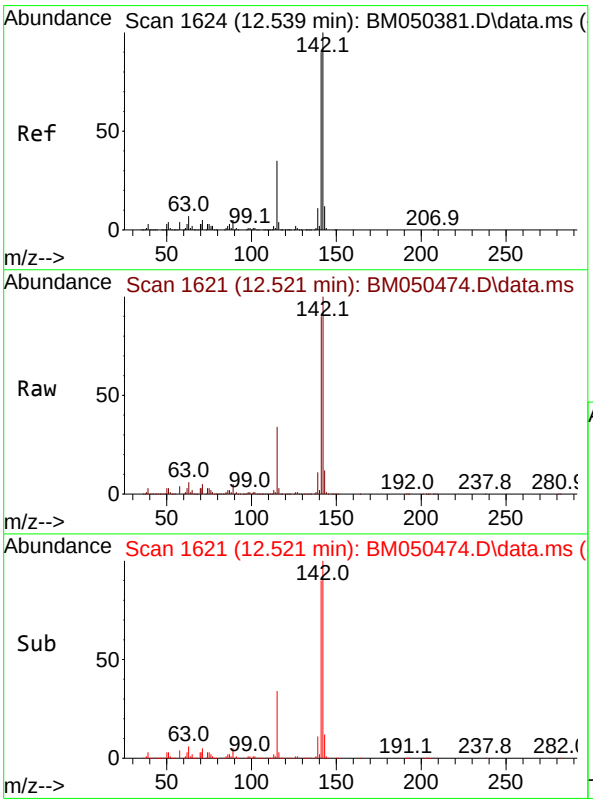
Ion	Ratio	Lower	Upper
142	100		
141	85.8	70.8	106.2
115	31.6	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

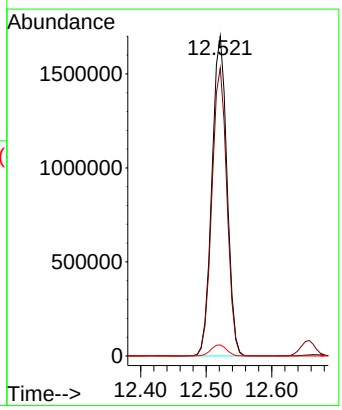
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

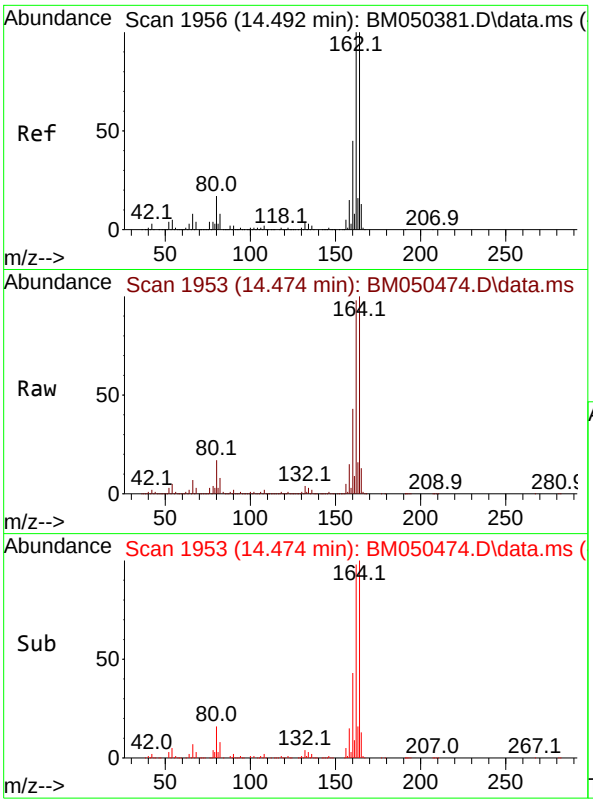


#38
1-Methylnaphthalene
Concen: 40.236 ng
RT: 12.521 min Scan# 1621
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:142 Resp: 2704024

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.9	107.9
116	3.5	3.0	4.6

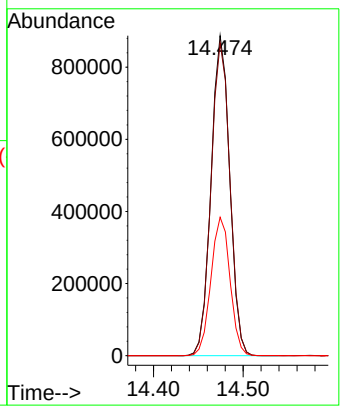




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.474 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:164 Resp: 128332

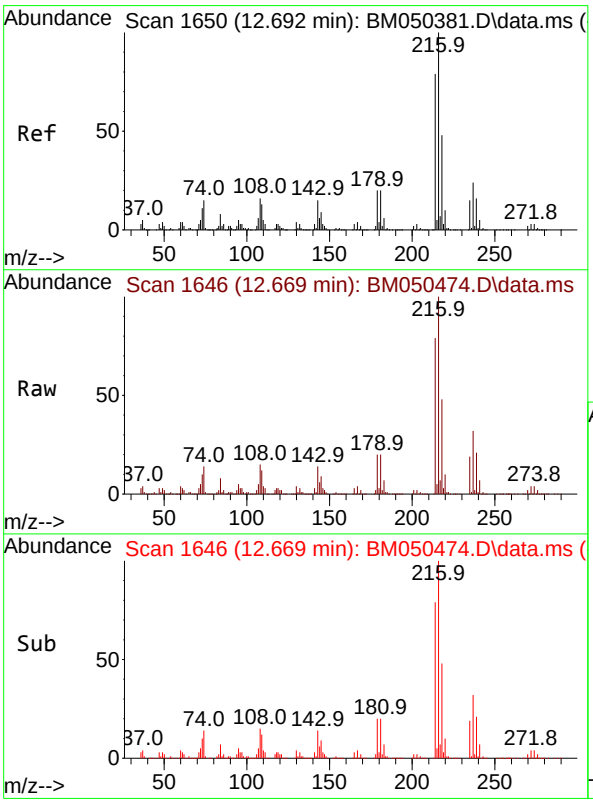
Ion	Ratio	Lower	Upper
164	100		
162	97.8	79.9	119.9
160	43.3	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

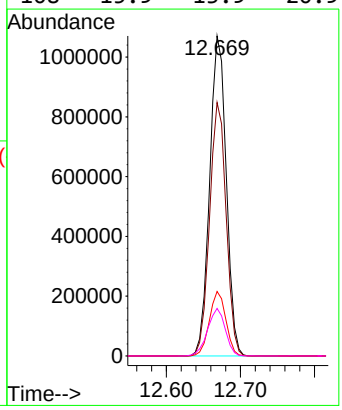
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

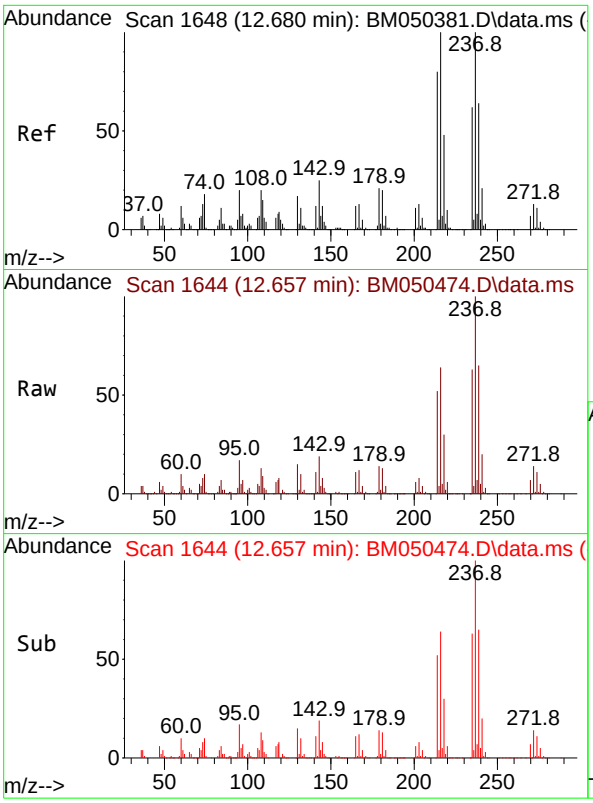


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.759 ng
RT: 12.669 min Scan# 1646
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:216 Resp: 1663387

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.3	94.9
179	20.0	16.4	24.6
108	15.9	13.9	20.9





#41
Hexachlorocyclopentadiene
Concen: 42.878 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

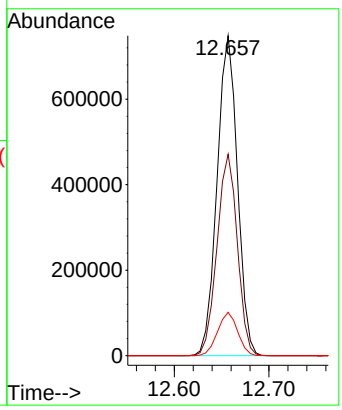
Tgt Ion:237 Resp: 111854

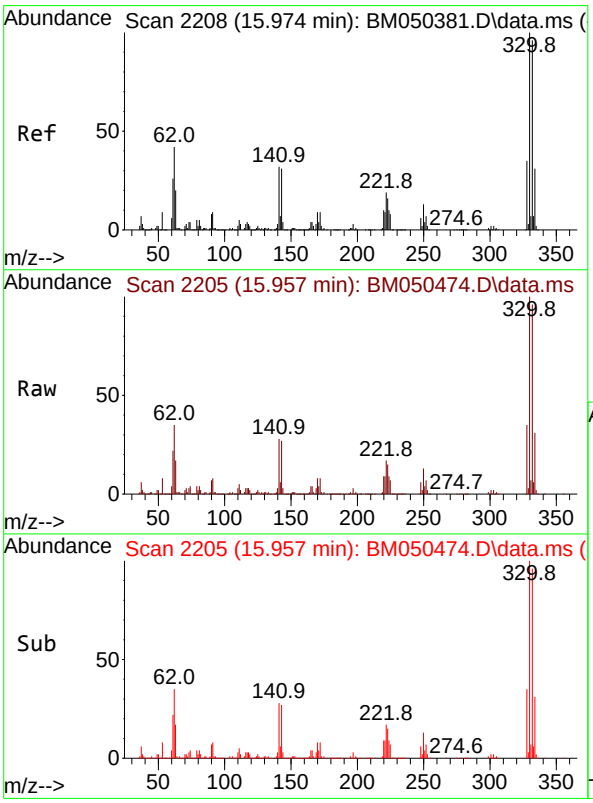
Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.3	82.3
272	13.5	0.0	33.0

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

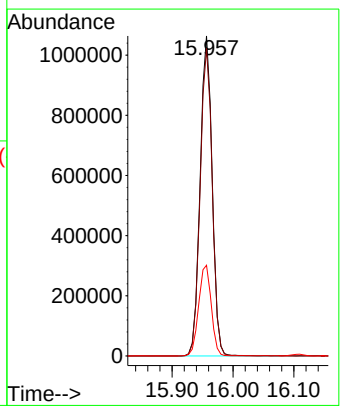


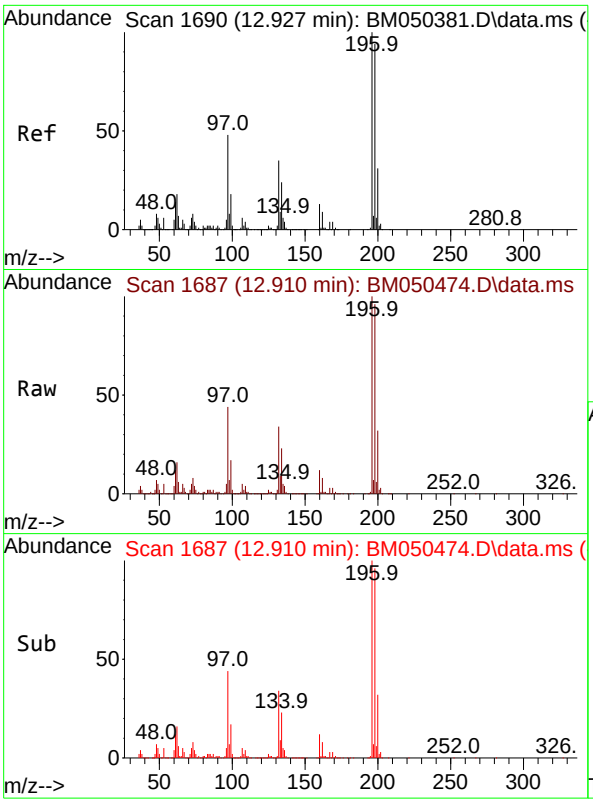


#42
2,4,6-Tribromophenol
Concen: 93.381 ng
RT: 15.957 min Scan# 2205
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:330 Resp: 1456045

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	29.8	27.4	41.0

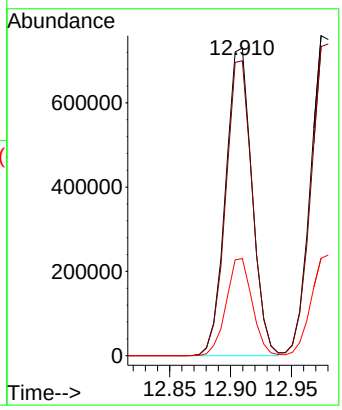




#43
2,4,6-Trichlorophenol
Concen: 43.796 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:196 Resp: 110018

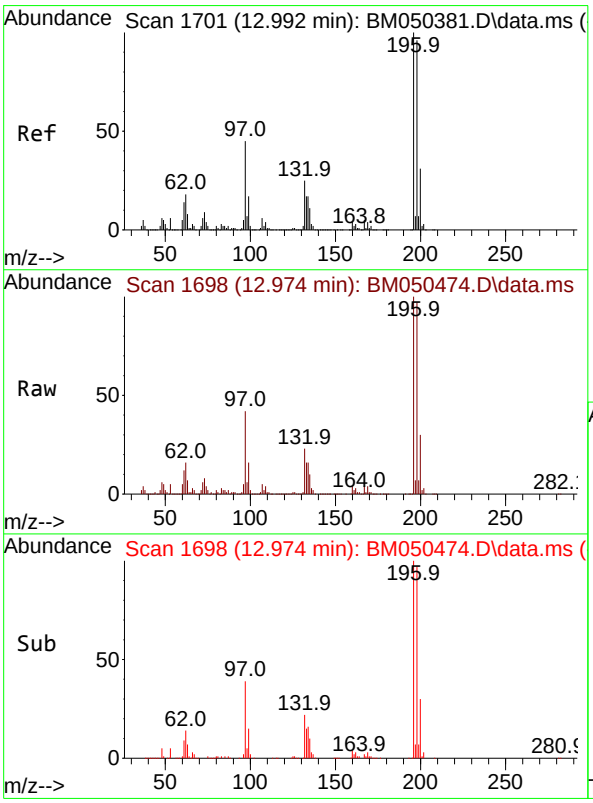
Ion	Ratio	Lower	Upper
196	100		
198	95.9	75.1	112.7
200	31.6	24.6	37.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

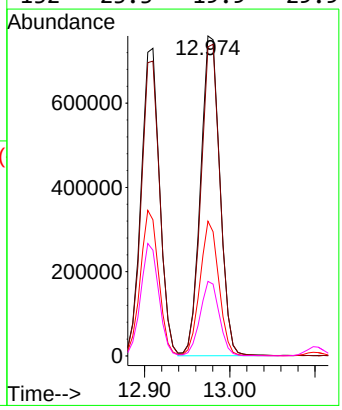
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

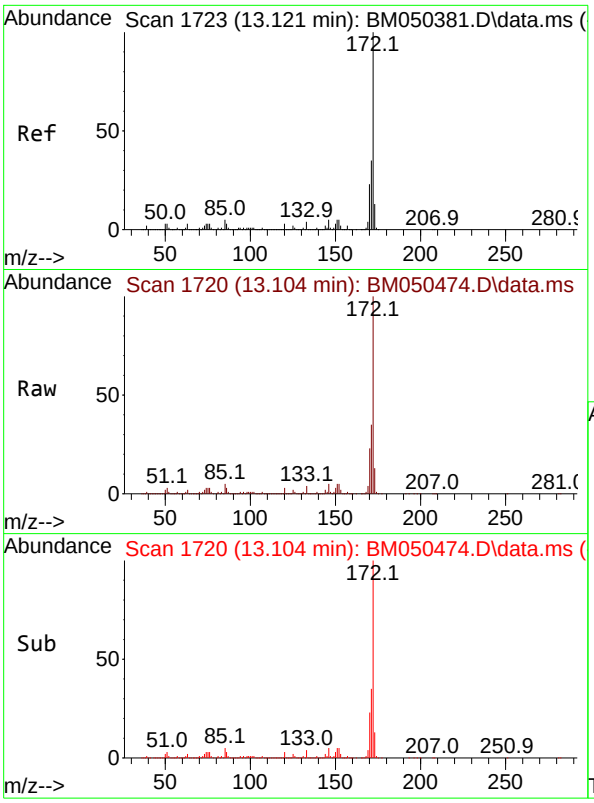


#44
2,4,5-Trichlorophenol
Concen: 43.580 ng
RT: 12.974 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:196 Resp: 1195616

Ion	Ratio	Lower	Upper
196	100		
198	96.6	77.2	115.8
97	42.1	36.2	54.4
132	23.3	19.9	29.9

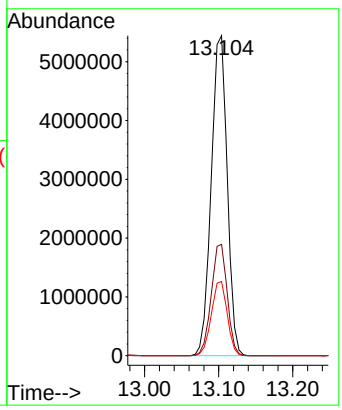




#45
2-Fluorobiphenyl
Concen: 78.224 ng
RT: 13.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:172 Resp: 812893

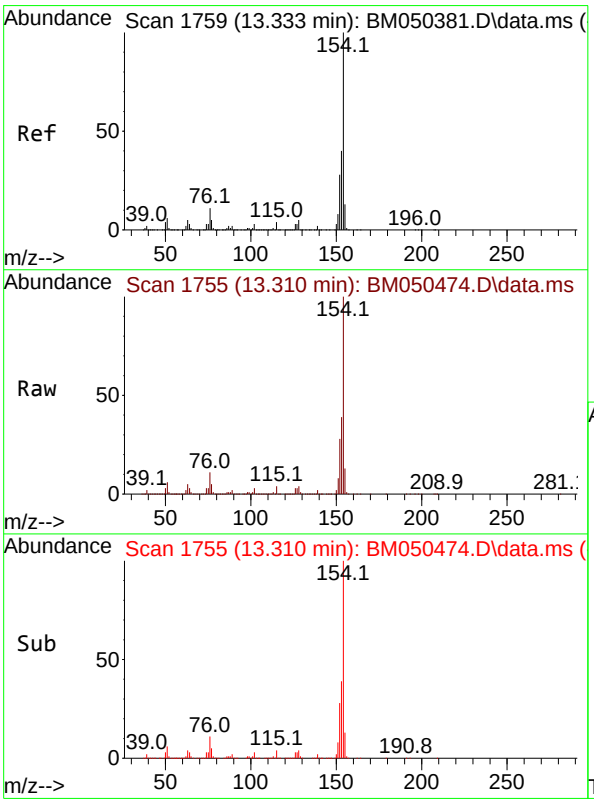
Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.7	41.5
170	23.2	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

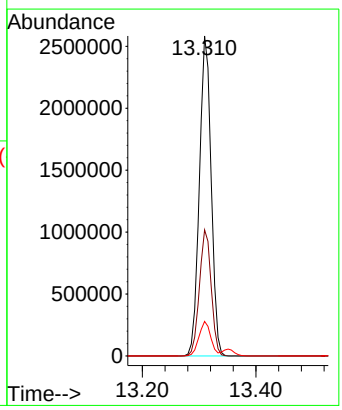
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

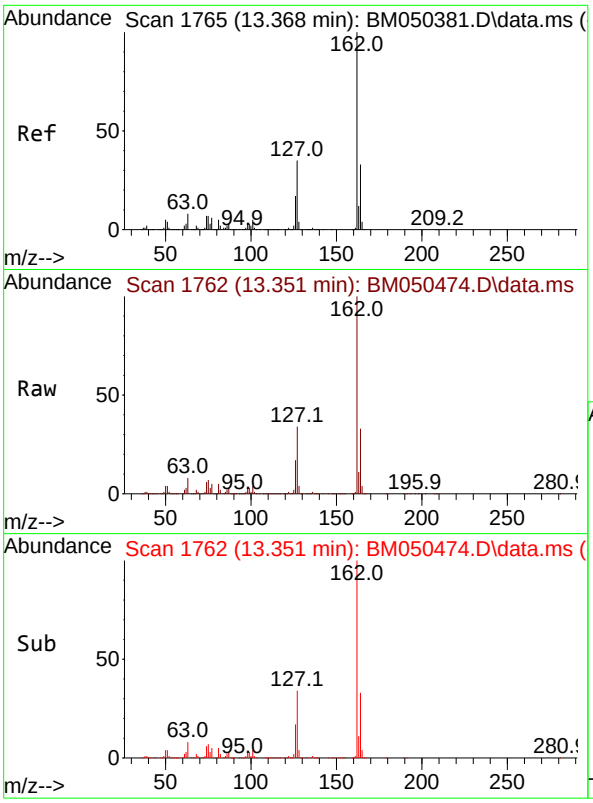


#46
1,1'-Biphenyl
Concen: 38.969 ng
RT: 13.310 min Scan# 1755
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:154 Resp: 3710435

Ion	Ratio	Lower	Upper
154	100		
153	39.4	19.7	59.7
76	10.8	0.0	30.9

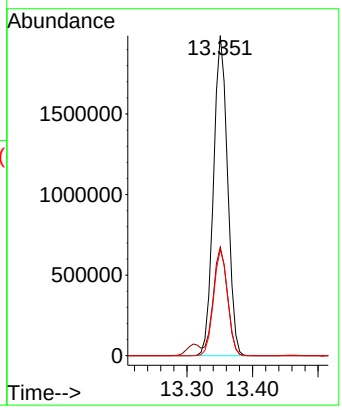




#47
2-Chloronaphthalene
Concen: 38.897 ng
RT: 13.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:162 Resp: 295286

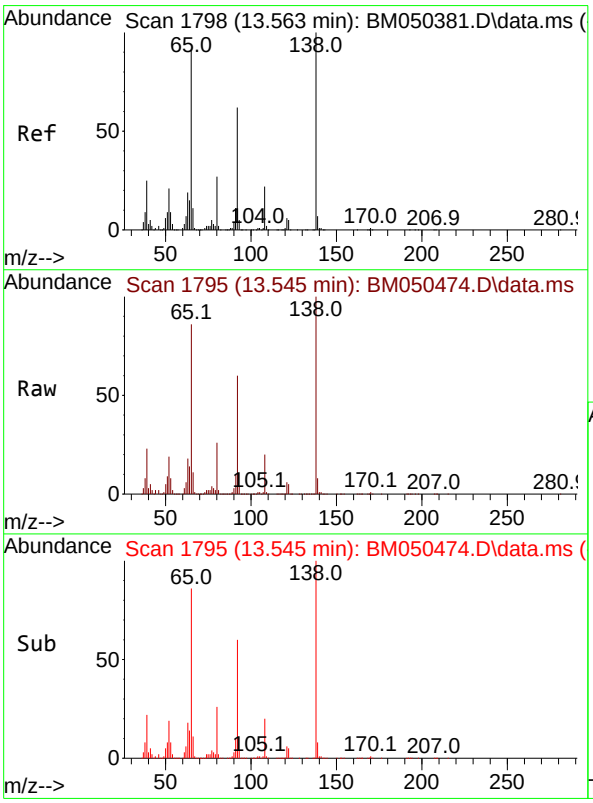
Ion	Ratio	Lower	Upper
162	100		
127	34.0	28.3	42.5
164	33.2	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

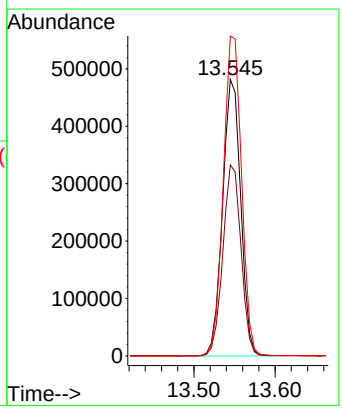
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

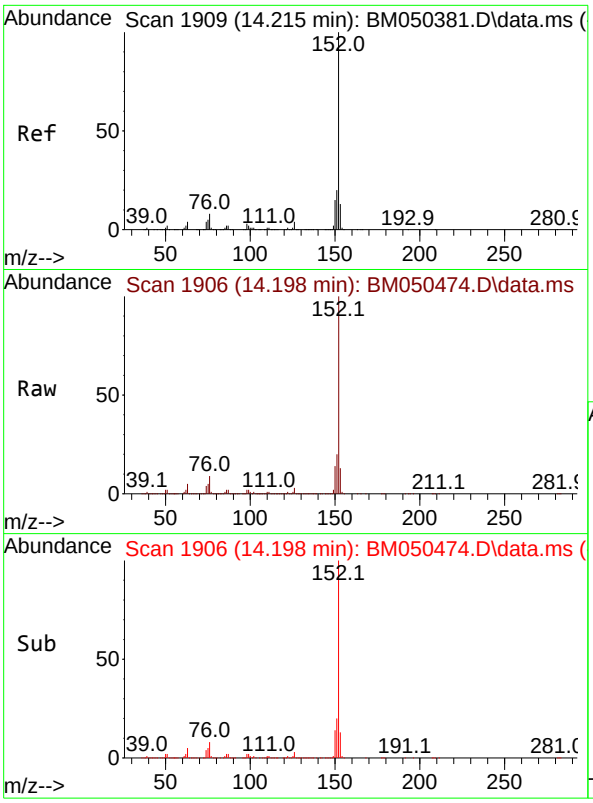


#48
2-Nitroaniline
Concen: 44.208 ng
RT: 13.545 min Scan# 1795
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 65 Resp: 749098

Ion	Ratio	Lower	Upper
65	100		
92	69.1	54.3	81.5
138	115.7	87.8	131.6

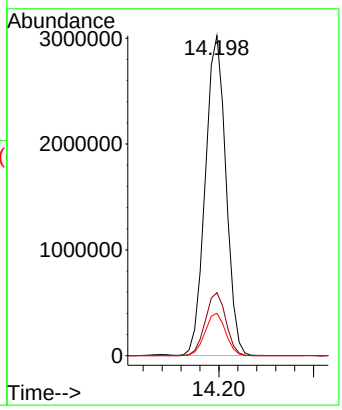




#49
Acenaphthylene
Concen: 39.833 ng
RT: 14.198 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:152 Resp: 457003

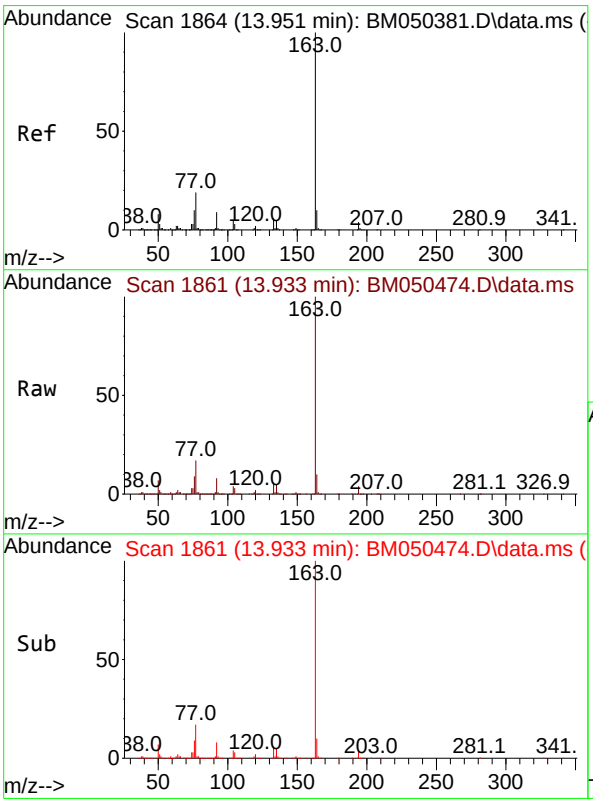
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.3	24.5
153	13.2	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

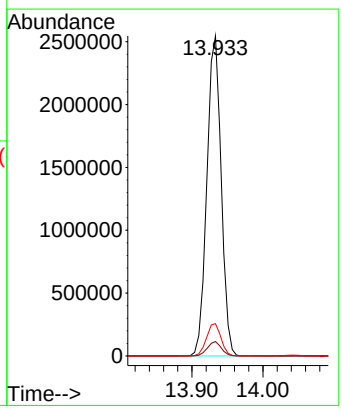
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

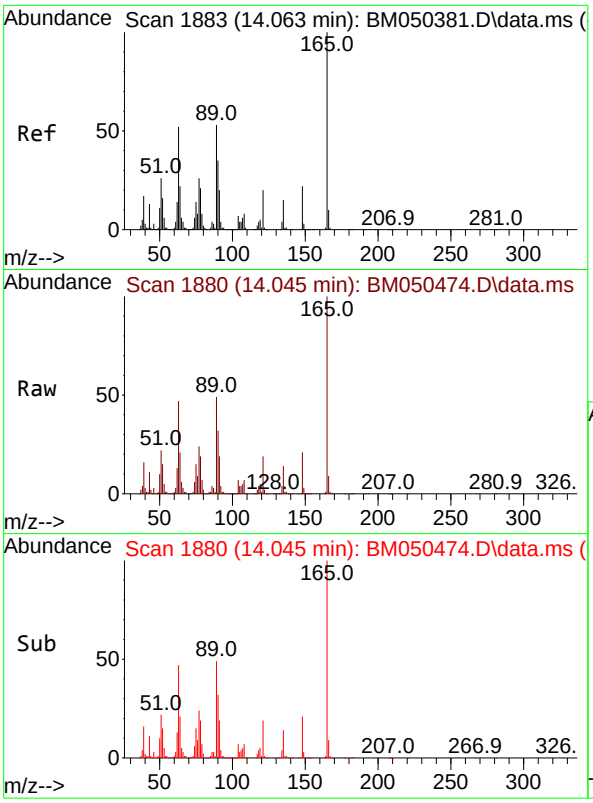


#50
Dimethylphthalate
Concen: 40.270 ng
RT: 13.933 min Scan# 1861
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:163 Resp: 3557955

Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.4	5.2
164	10.1	8.2	12.2

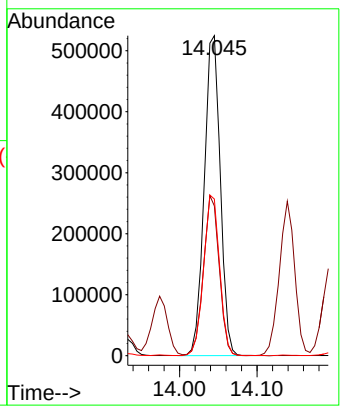




#51
2,6-Dinitrotoluene
Concen: 44.367 ng
RT: 14.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:165 Resp: 75265

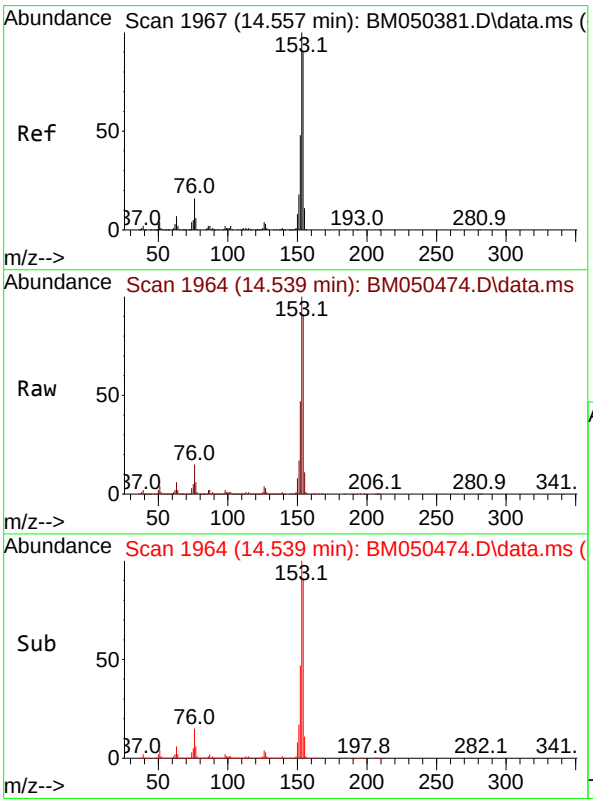
Ion	Ratio	Lower	Upper
165	100		
63	46.8	42.4	63.6
89	48.9	42.2	63.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

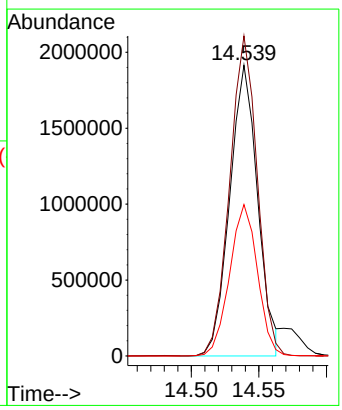
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

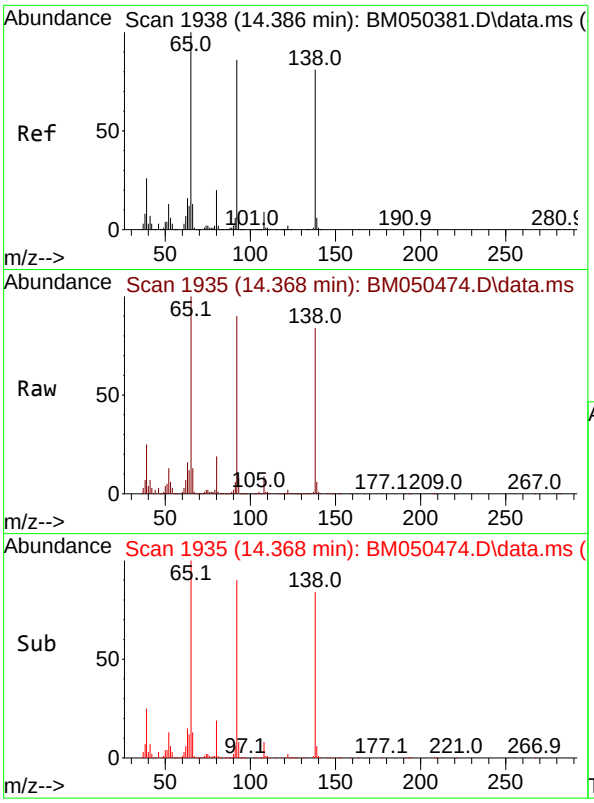


#52
Acenaphthene
Concen: 37.753 ng m
RT: 14.539 min Scan# 1964
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:154 Resp: 2753717

Ion	Ratio	Lower	Upper
154	100		
153	110.1	89.2	133.8
152	52.1	42.6	64.0





#53
3-Nitroaniline
Concen: 44.377 ng
RT: 14.368 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

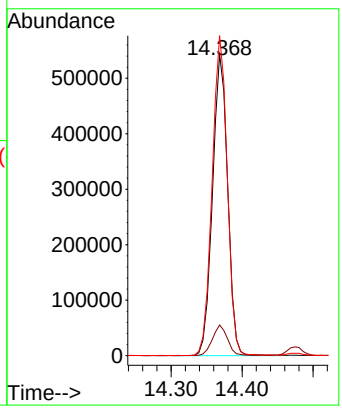
Tgt Ion:138 Resp: 80061

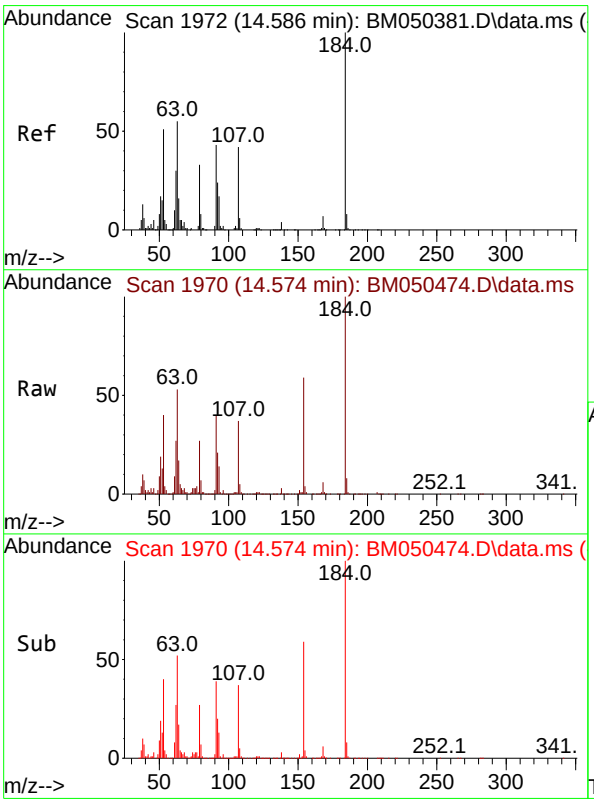
Ion	Ratio	Lower	Upper
138	100		
108	10.2	8.8	13.2
92	106.2	85.0	127.6

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

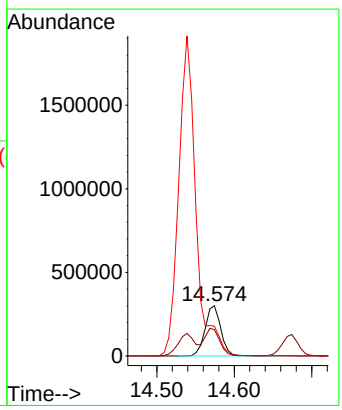


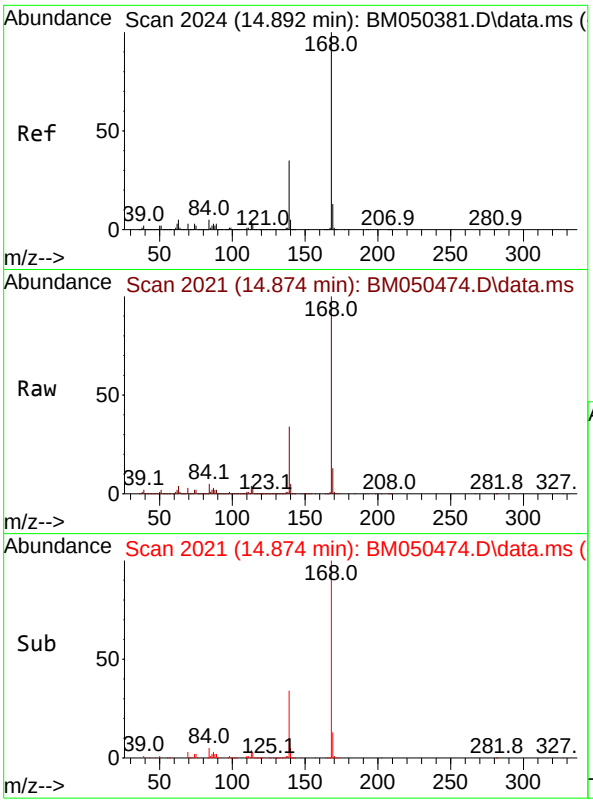


#54
2,4-Dinitrophenol
Concen: 47.990 ng
RT: 14.574 min Scan# 1970
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:184 Resp: 423149

Ion	Ratio	Lower	Upper
184	100		
63	52.5	53.4	80.0#
154	59.4	61.6	92.4#

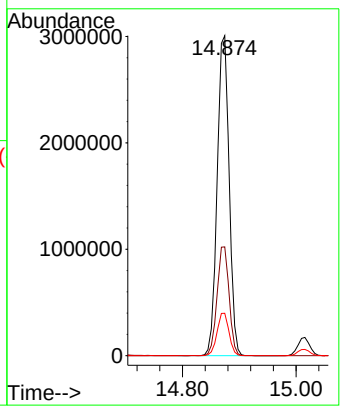




#55
Dibenzofuran
Concen: 39.019 ng
RT: 14.874 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:168 Resp: 438521(

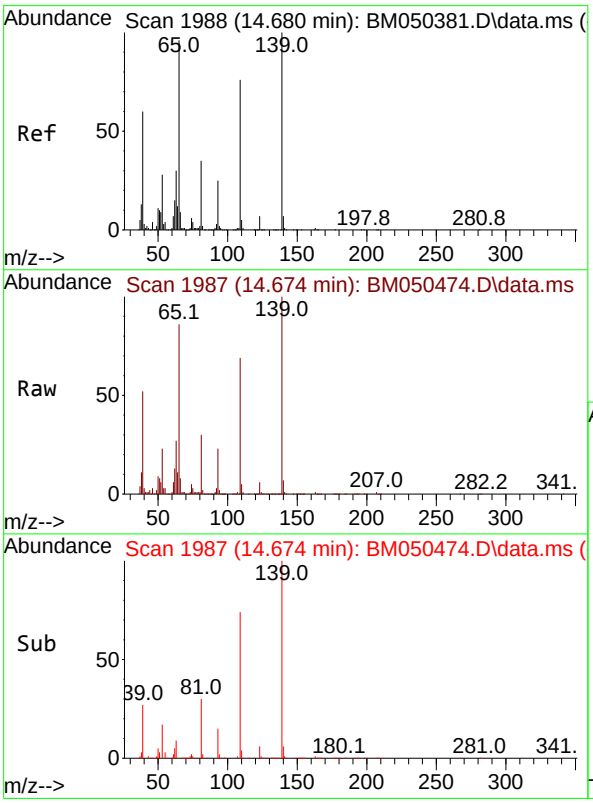
Ion	Ratio	Lower	Upper
168	100		
139	34.0	27.7	41.5
169	13.3	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

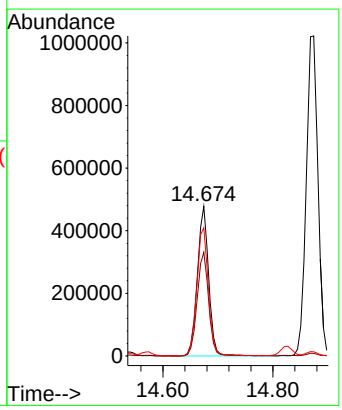
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

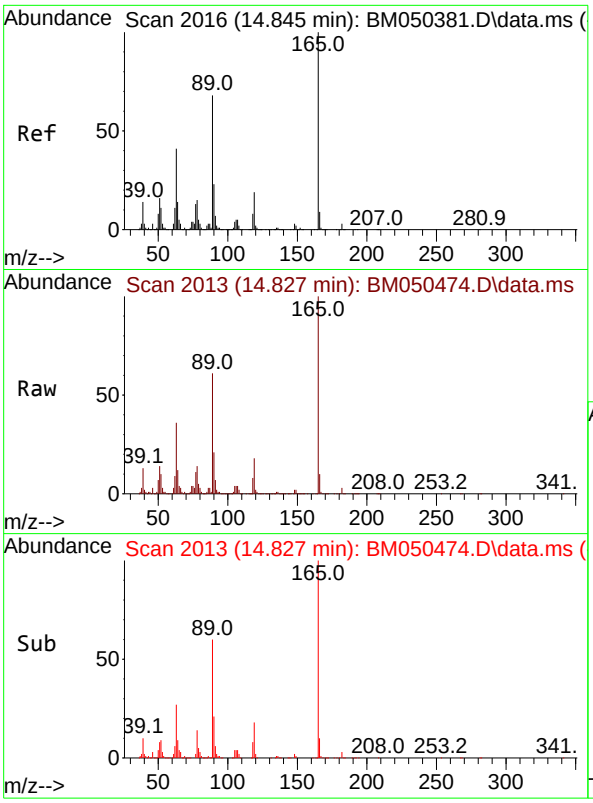


#56
4-Nitrophenol
Concen: 44.005 ng
RT: 14.674 min Scan# 1987
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:139 Resp: 682725

Ion	Ratio	Lower	Upper
139	100		
109	69.3	56.5	96.5
65	85.6	76.4	116.4

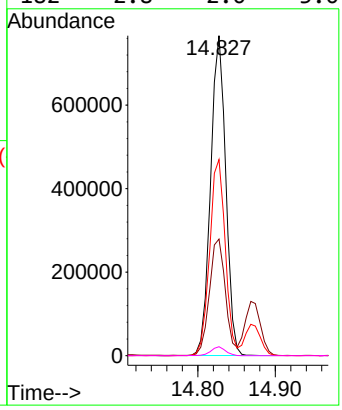




#57
2,4-Dinitrotoluene
Concen: 41.533 ng
RT: 14.827 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:165 Resp: 104486

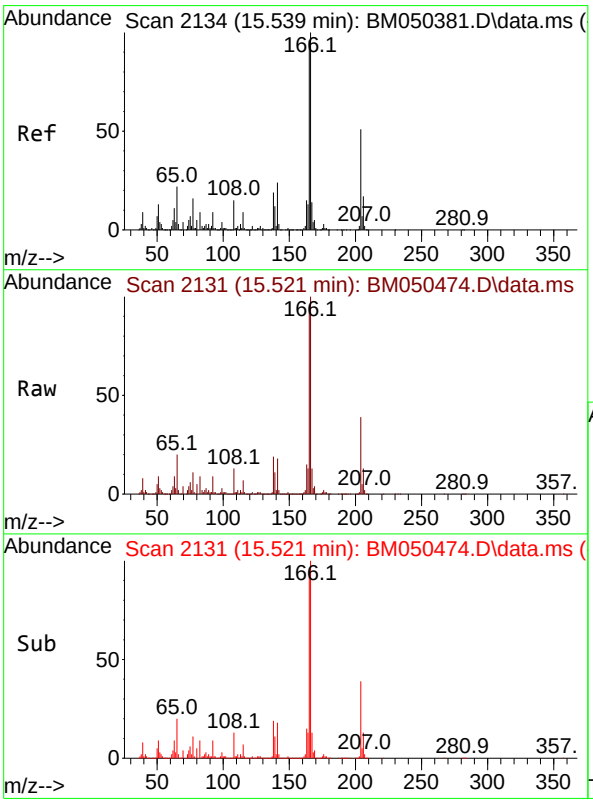
Ion	Ratio	Lower	Upper
165	100		
63	36.4	32.5	48.7
89	61.3	54.0	81.0
182	2.8	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

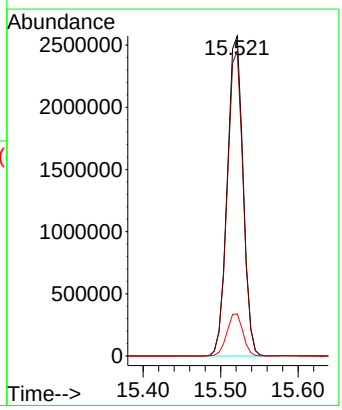
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

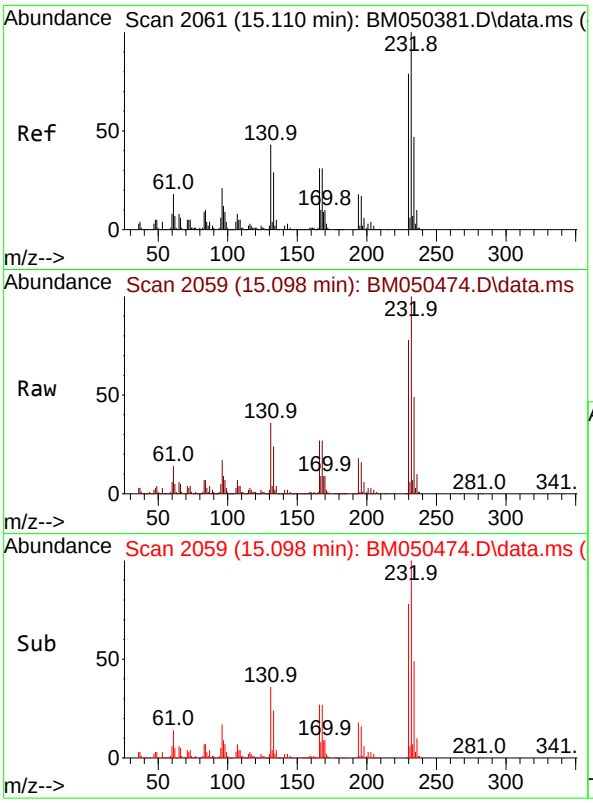


#58
Fluorene
Concen: 39.416 ng
RT: 15.521 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:166 Resp: 3648772

Ion	Ratio	Lower	Upper
166	100		
165	95.3	77.0	115.6
167	13.2	10.9	16.3

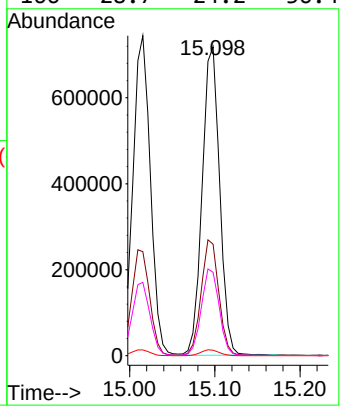




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.383 ng
RT: 15.098 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:232 Resp: 102500

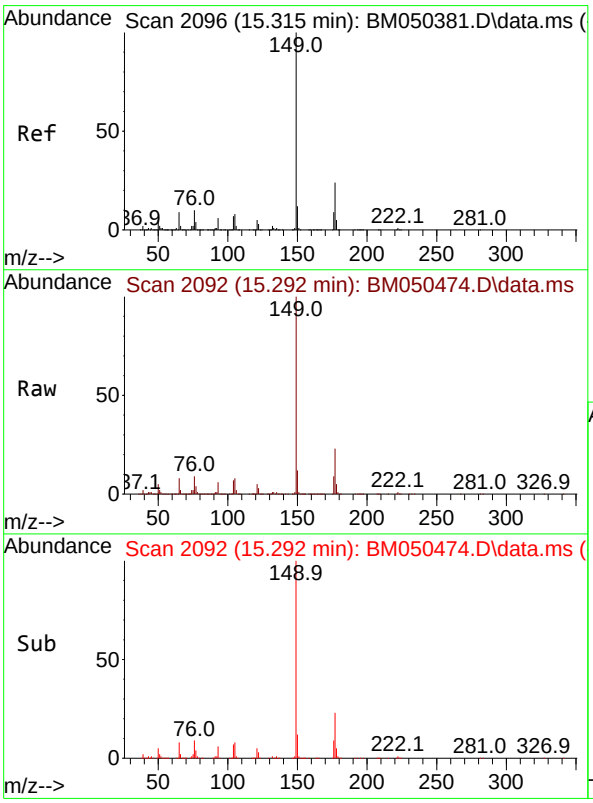
Ion	Ratio	Lower	Upper
232	100		
131	37.9	33.4	50.0
130	2.0	1.8	2.6
166	28.7	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

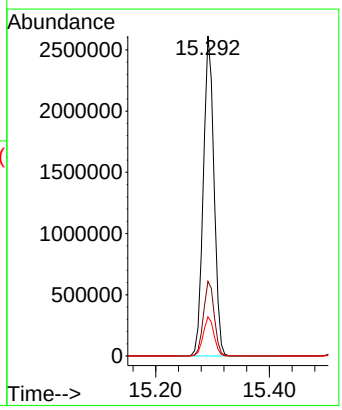
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

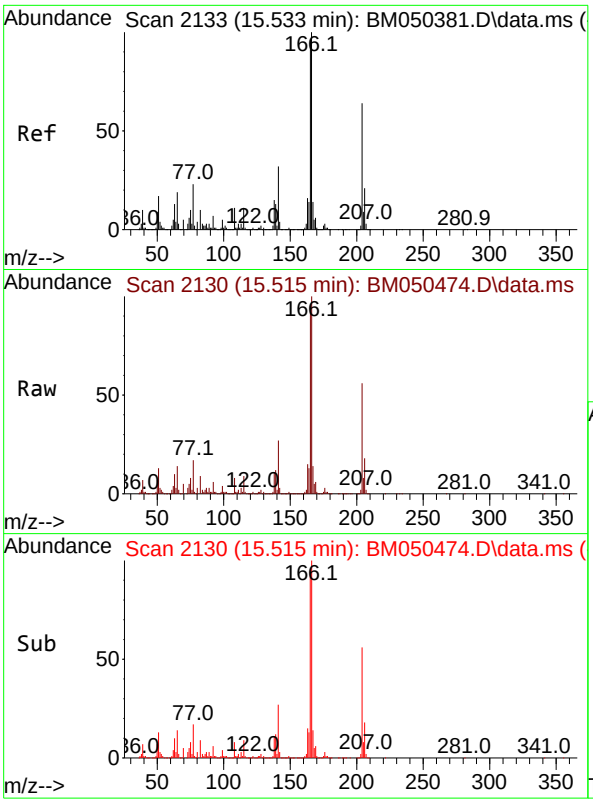


#60
Diethylphthalate
Concen: 40.194 ng
RT: 15.292 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:149 Resp: 3392307

Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.8	28.2
150	12.2	9.8	14.8

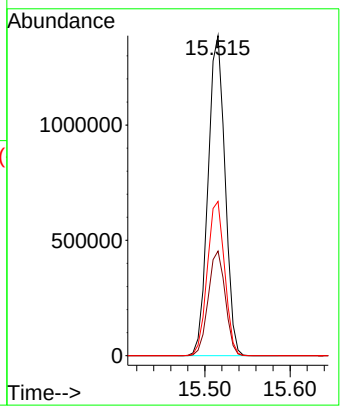




#61
4-Chlorophenyl-phenylether
Concen: 39.573 ng
RT: 15.515 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:204 Resp: 191551

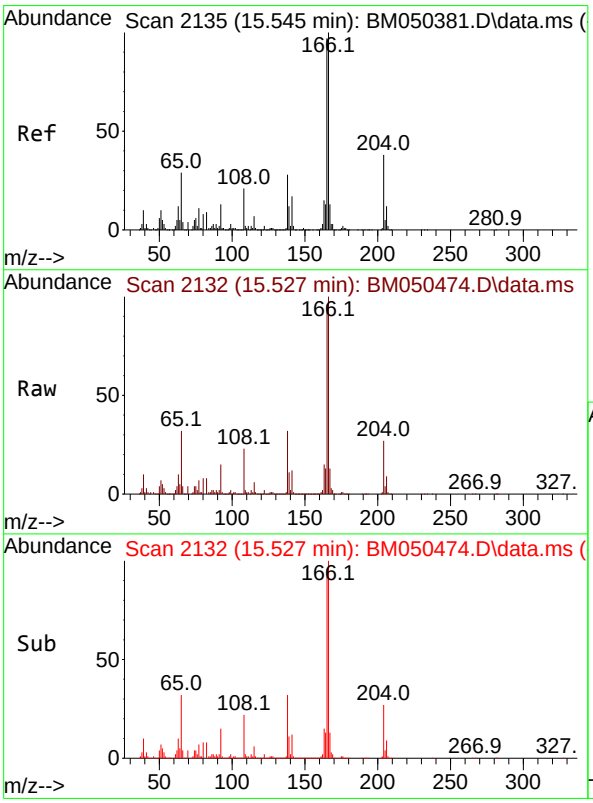
Ion	Ratio	Lower	Upper
204	100		
206	32.7	26.6	39.8
141	48.2	39.9	59.9



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

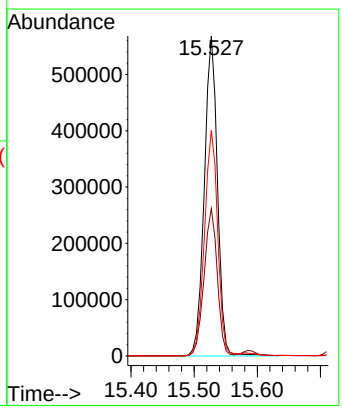
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

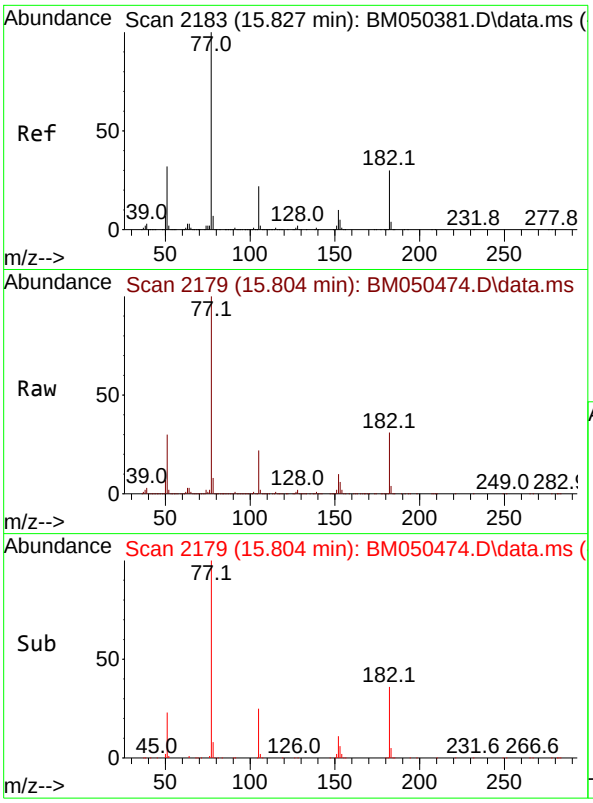


#62
4-Nitroaniline
Concen: 40.096 ng
RT: 15.527 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:138 Resp: 822296

Ion	Ratio	Lower	Upper
138	100		
92	46.1	24.5	64.5
108	70.4	52.5	92.5

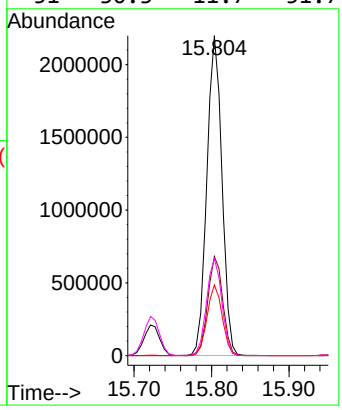




#63
Azobenzene
Concen: 38.317 ng
RT: 15.804 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion: 77 Resp: 296950

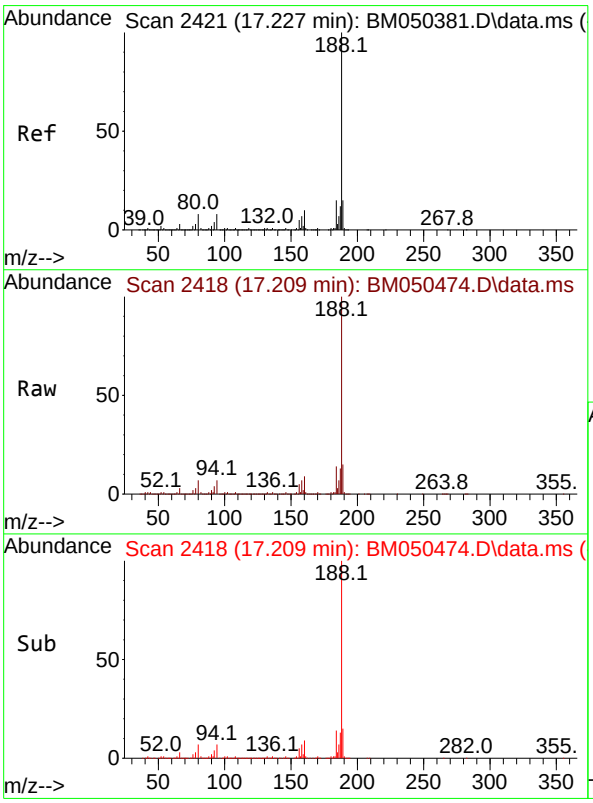
Ion	Ratio	Lower	Upper
77	100		
182	31.0	10.0	50.0
105	22.1	2.0	42.0
51	30.3	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

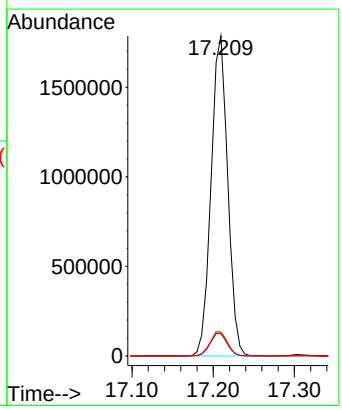
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

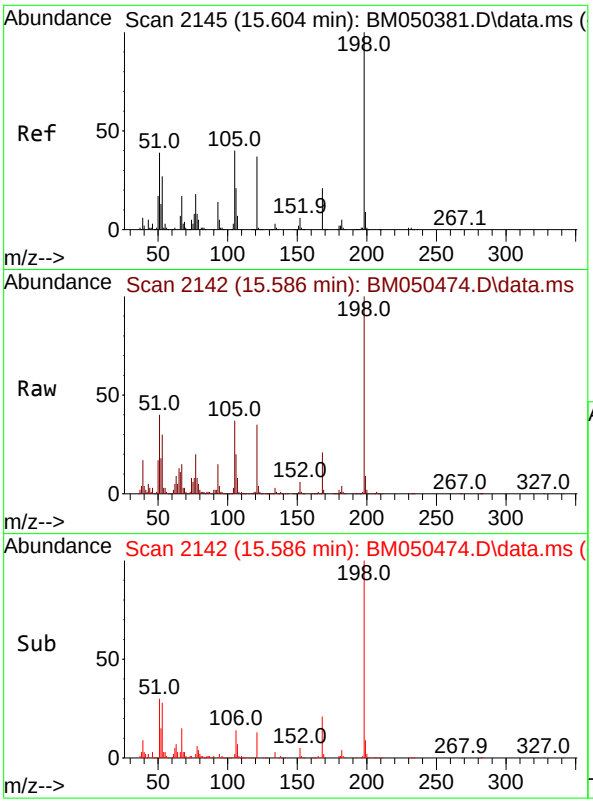


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.209 min Scan# 2418
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:188 Resp: 2540655

Ion	Ratio	Lower	Upper
188	100		
94	7.1	6.0	9.0
80	7.4	6.5	9.7





#65
4,6-Dinitro-2-methylphenol
Concen: 45.431 ng
RT: 15.586 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

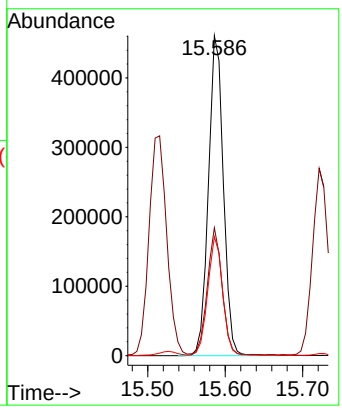
Tgt Ion:198 Resp: 61534

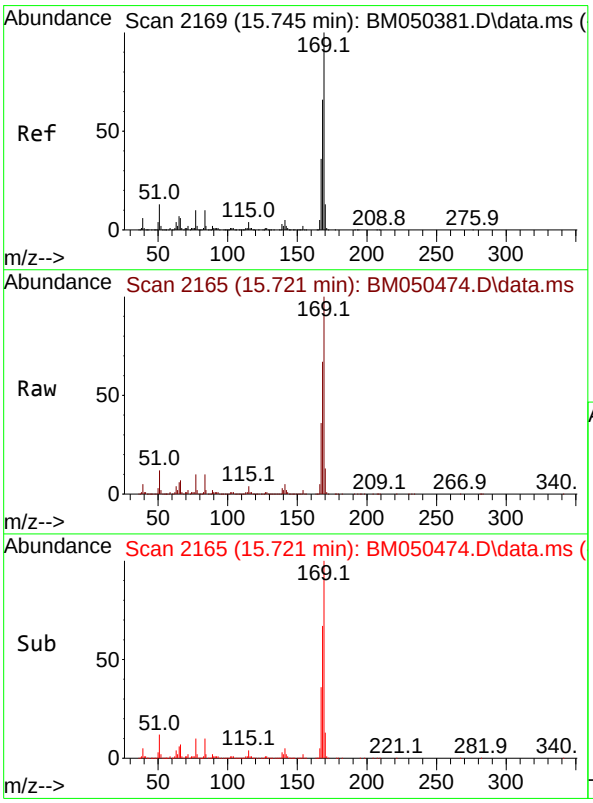
Ion	Ratio	Lower	Upper
198	100		
51	40.0	26.6	66.6
105	37.2	20.9	60.9

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

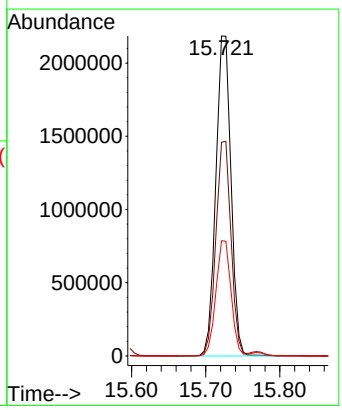


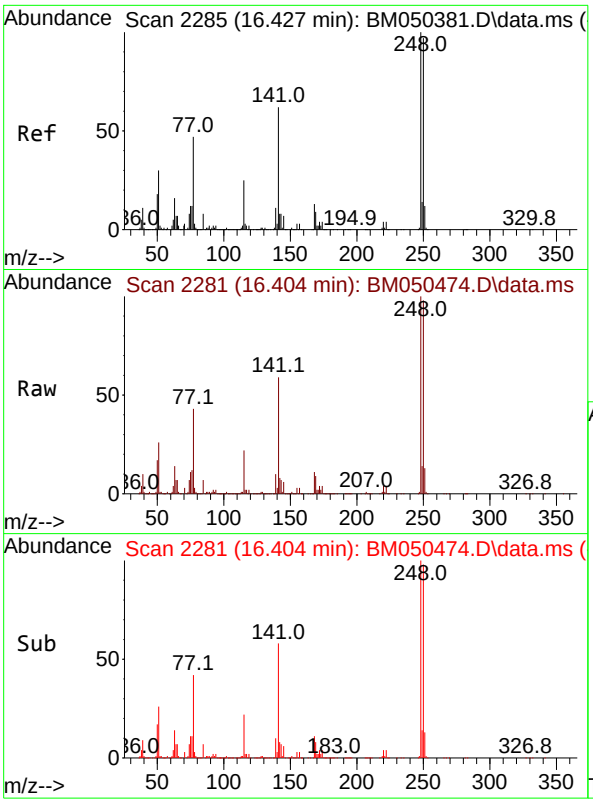


#66
n-Nitrosodiphenylamine
Concen: 38.981 ng
RT: 15.721 min Scan# 2165
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:169 Resp: 3099051

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.2	79.8
167	36.0	28.7	43.1

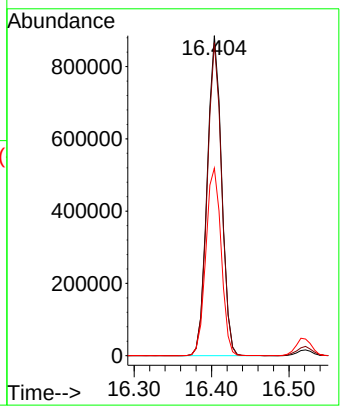




#67
4-Bromophenyl-phenylether
Concen: 41.067 ng
RT: 16.404 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:248 Resp: 114955

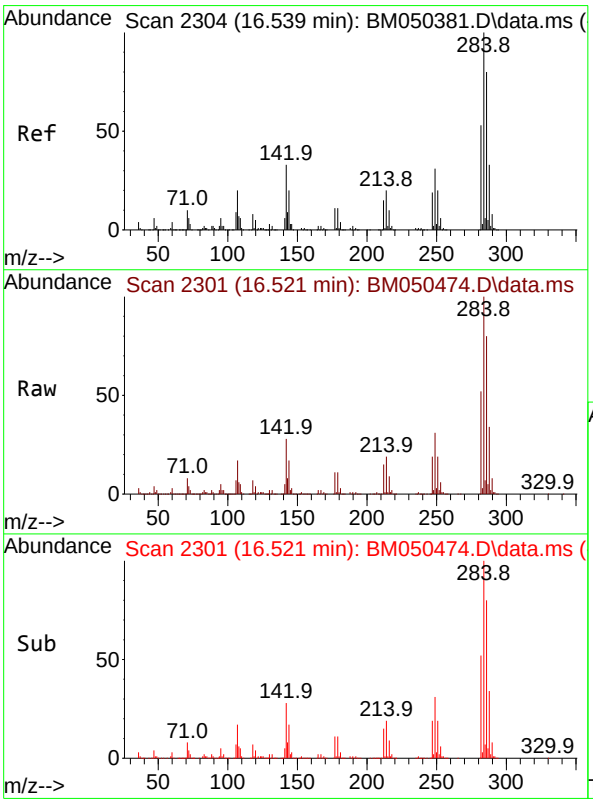
Ion	Ratio	Lower	Upper
248	100		
250	97.8	77.9	116.9
141	58.6	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

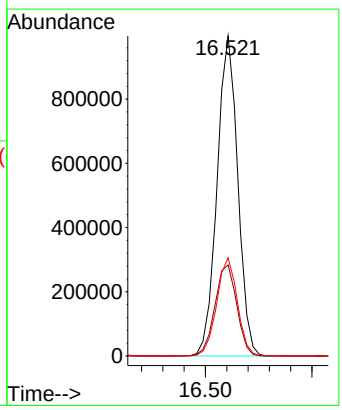
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

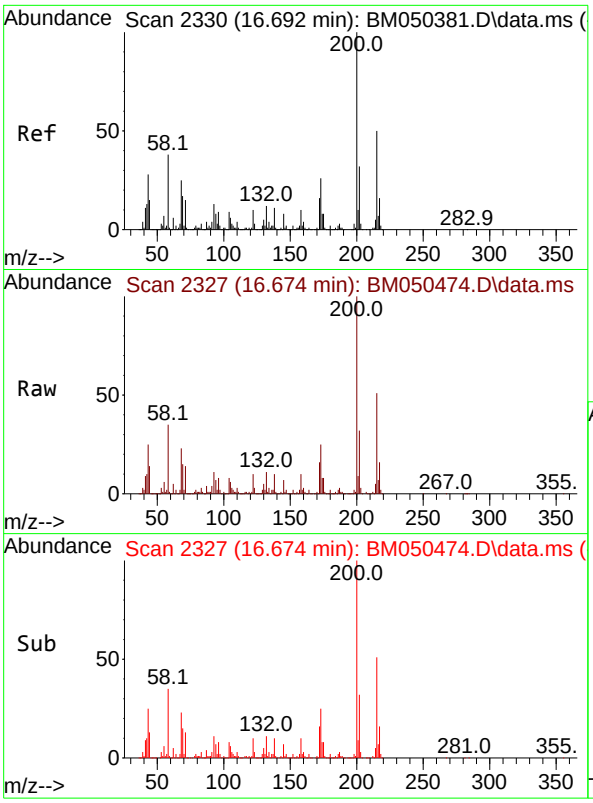


#68
Hexachlorobenzene
Concen: 40.631 ng
RT: 16.521 min Scan# 2301
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:284 Resp: 1343279

Ion	Ratio	Lower	Upper
284	100		
142	28.4	26.8	40.2
249	30.6	24.5	36.7

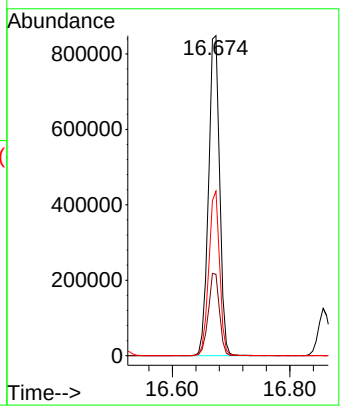




#69
Atrazine
Concen: 42.547 ng
RT: 16.674 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:200 Resp: 111072

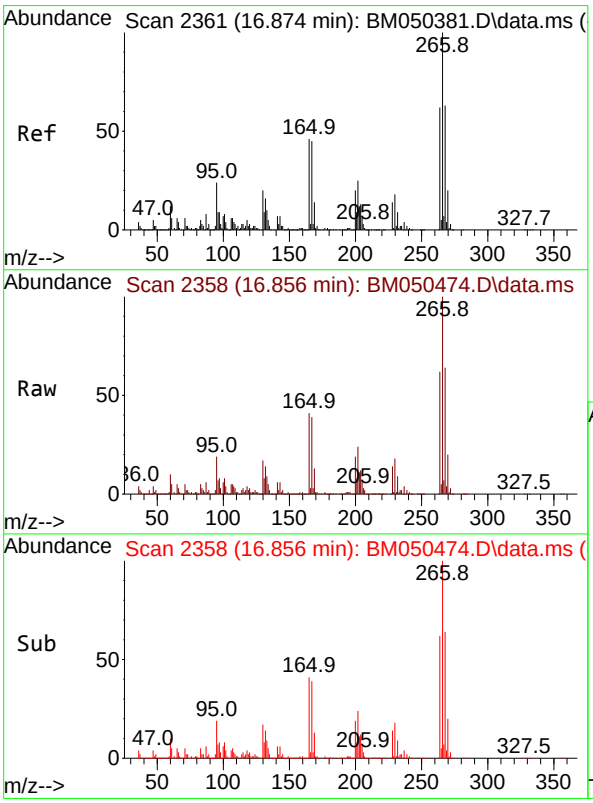
Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.6	45.6
215	51.4	29.6	69.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

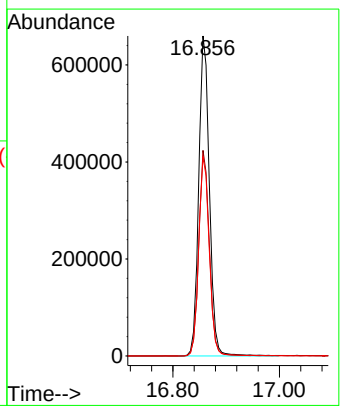
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

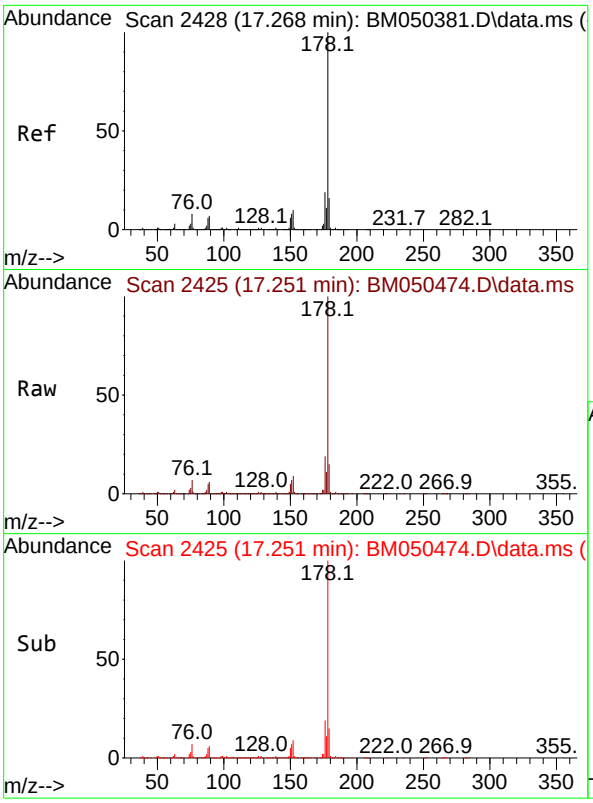


#70
Pentachlorophenol
Concen: 44.450 ng
RT: 16.856 min Scan# 2358
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:266 Resp: 914812

Ion	Ratio	Lower	Upper
266	100		
268	64.2	50.5	75.7
264	62.3	49.9	74.9

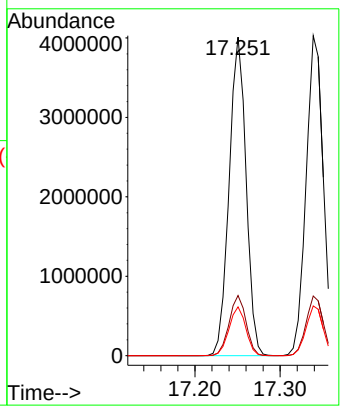




#71
Phenanthrene
Concen: 38.529 ng
RT: 17.251 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:178 Resp: 553909

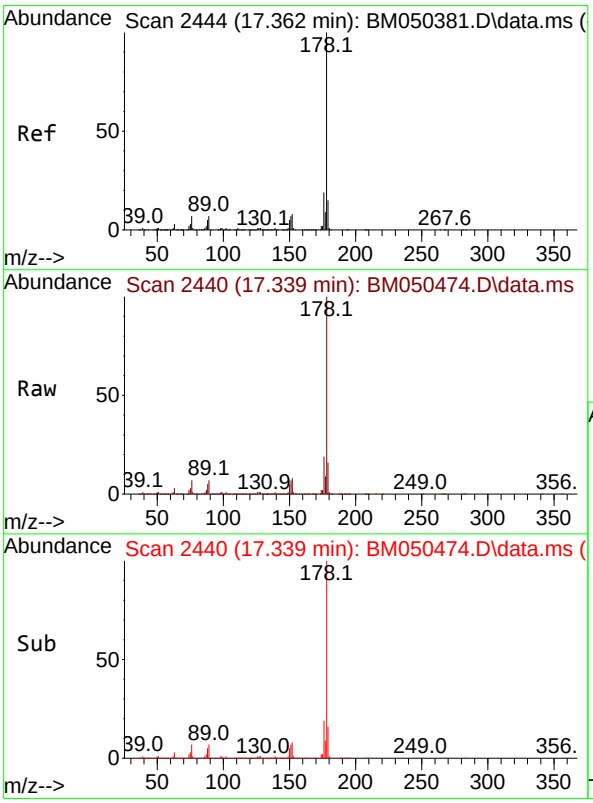
Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	15.3	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

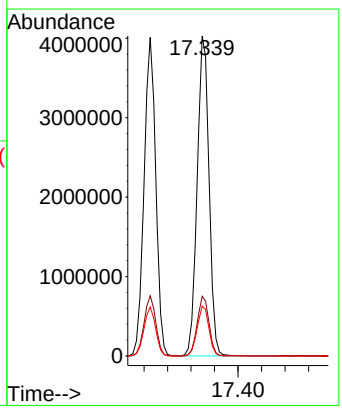
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

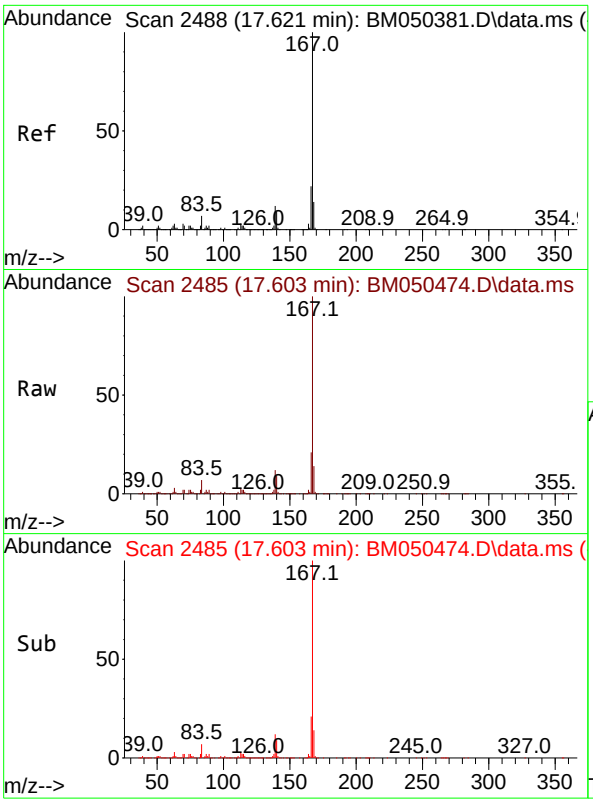


#72
Anthracene
Concen: 39.417 ng
RT: 17.339 min Scan# 2440
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:178 Resp: 5640684

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.5	12.2	18.4

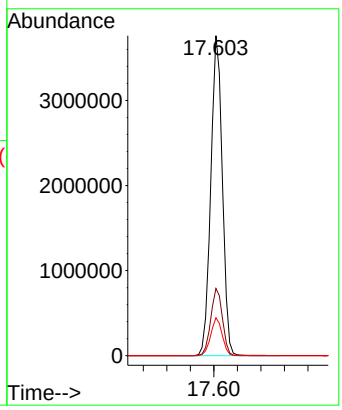




#73
Carbazole
Concen: 39.613 ng
RT: 17.603 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:167 Resp: 512925

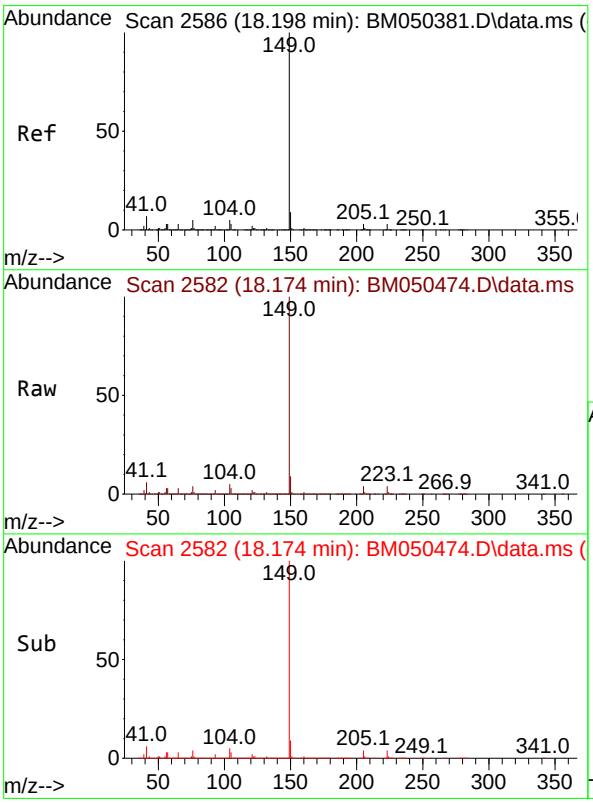
Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.2	25.8
139	11.9	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

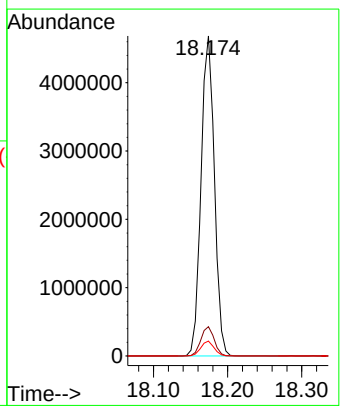
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

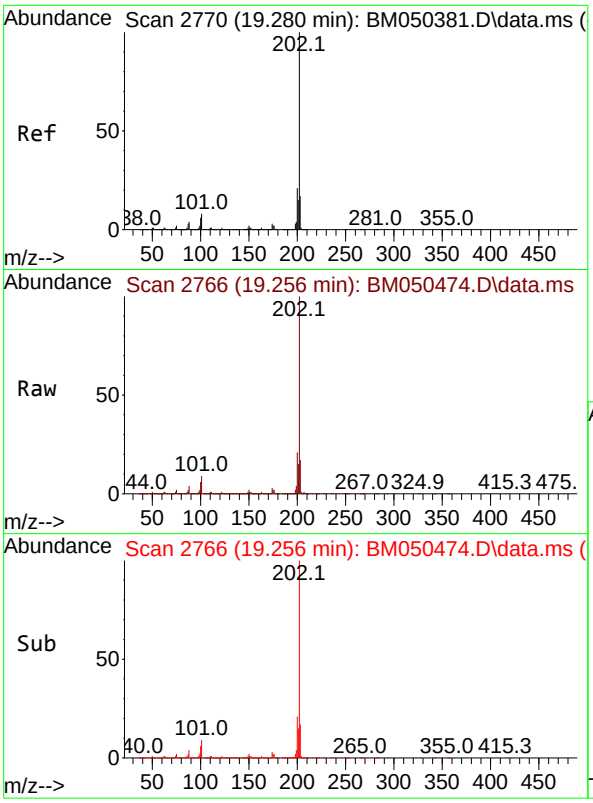


#74
Di-n-butylphthalate
Concen: 41.312 ng
RT: 18.174 min Scan# 2582
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:149 Resp: 5854924

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.7	3.9	5.9





#75
Fluoranthene
Concen: 41.191 ng
RT: 19.256 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

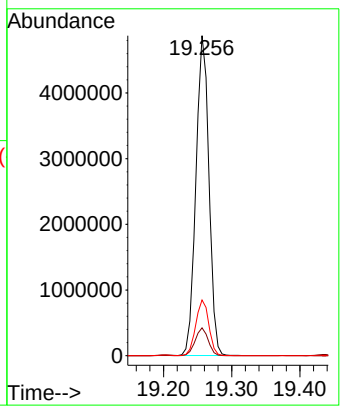
Tgt Ion:202 Resp: 643769

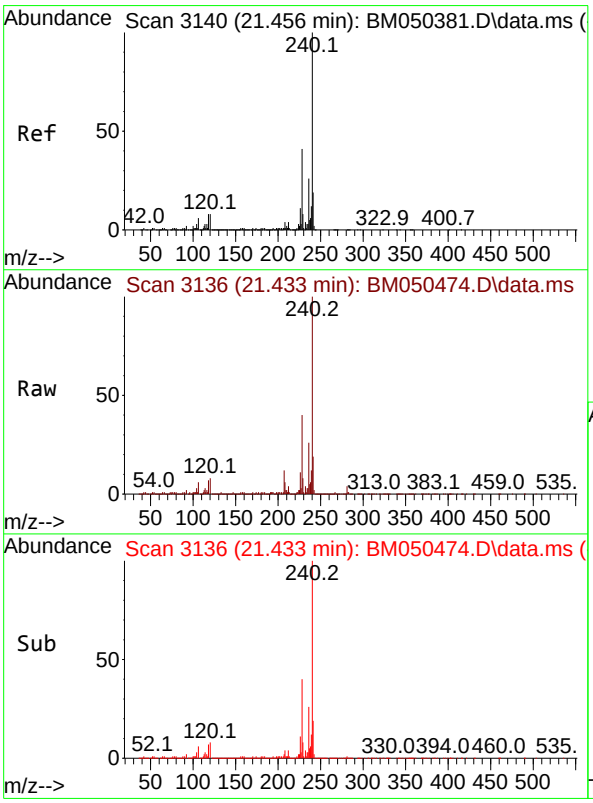
Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	28.3
203	17.4	0.0	37.2

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

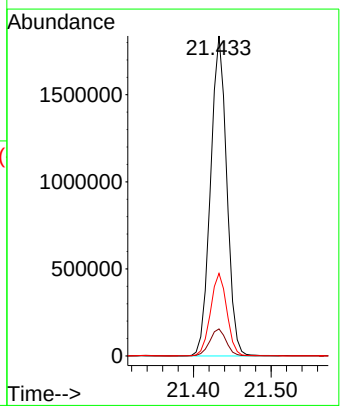


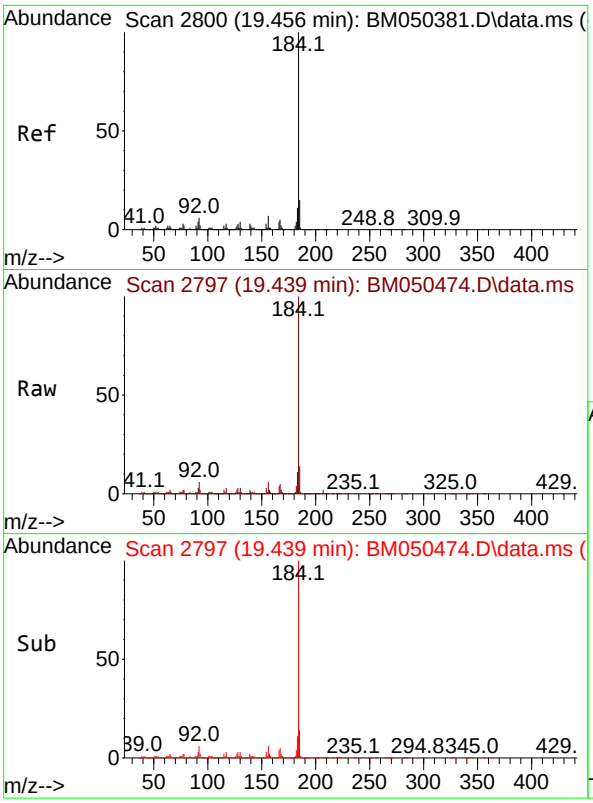


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3136
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:240 Resp: 2672211

Ion	Ratio	Lower	Upper
240	100		
120	8.5	6.7	10.1
236	25.8	20.7	31.1

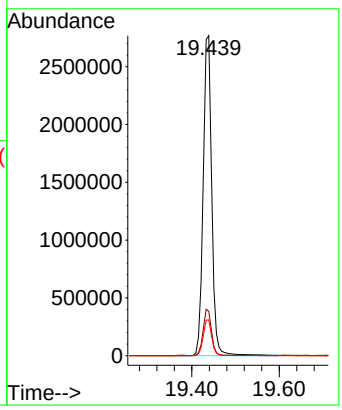




#77
Benzidine
Concen: 55.614 ng
RT: 19.439 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:184 Resp: 379054

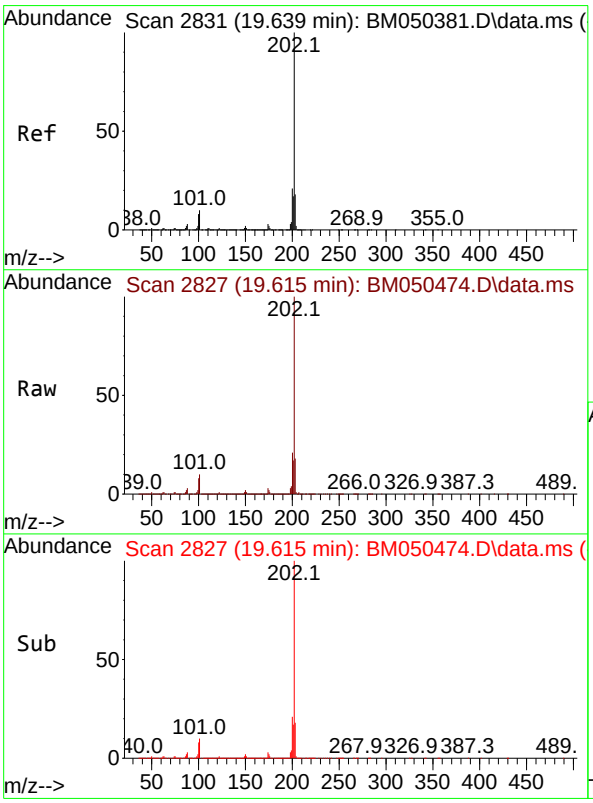
Ion	Ratio	Lower	Upper
184	100		
185	13.9	11.7	17.5
183	11.2	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

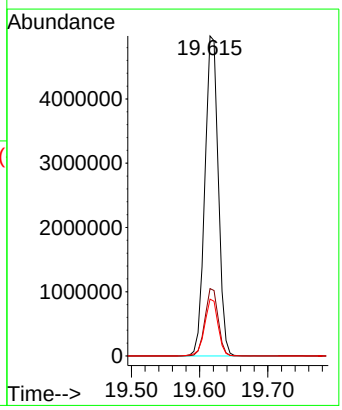
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

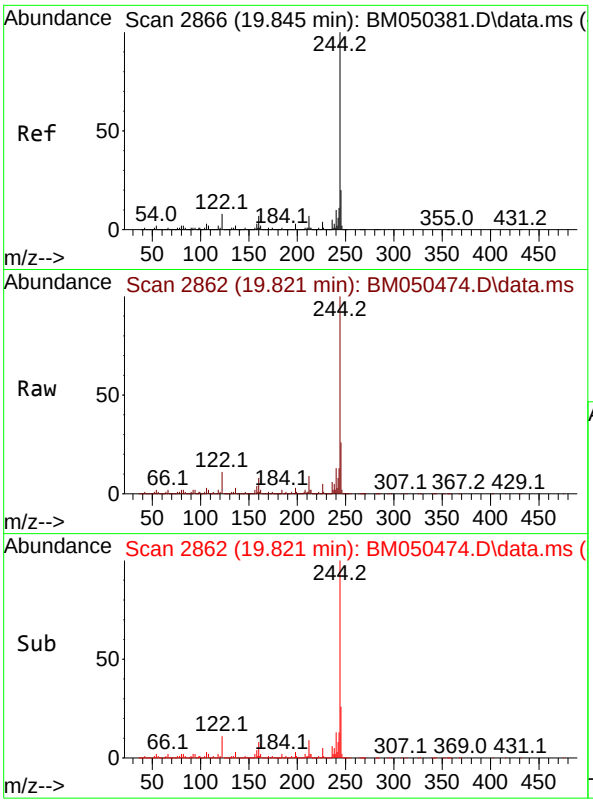


#78
Pyrene
Concen: 39.752 ng
RT: 19.615 min Scan# 2827
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:202 Resp: 6803242

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.1	21.1

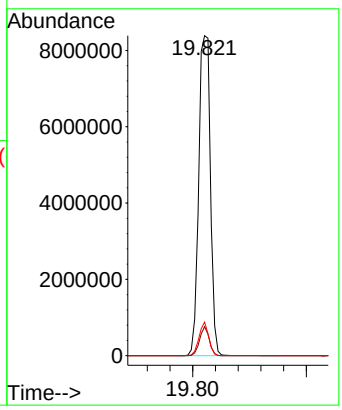




#79
Terphenyl-d14
Concen: 78.795 ng
RT: 19.821 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:244 Resp:1196717

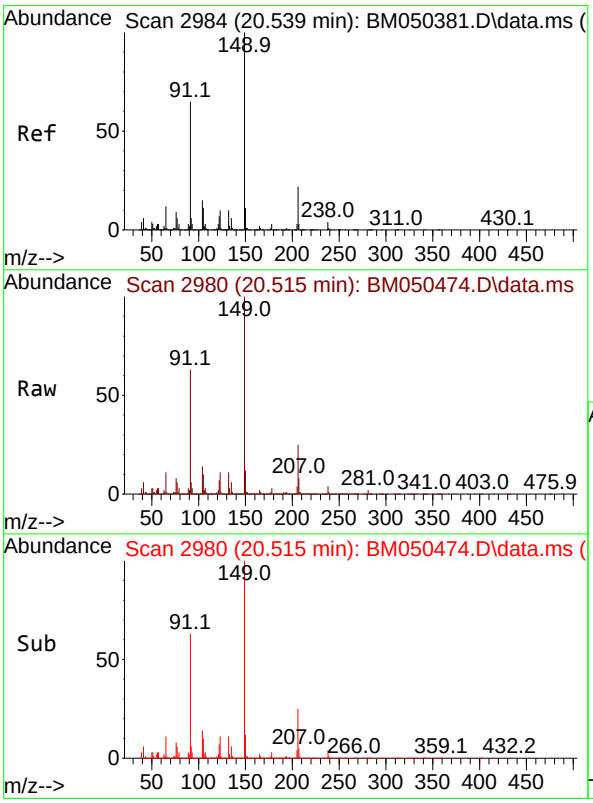
Ion	Ratio	Lower	Upper
244	100		
212	9.1	5.7	8.5#
122	10.5	6.2	9.2#



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

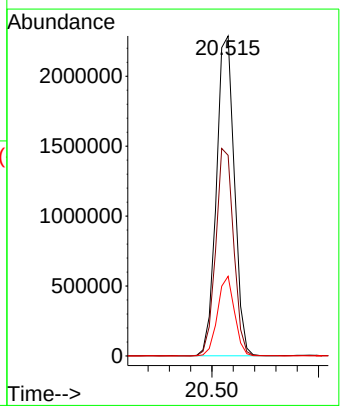
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

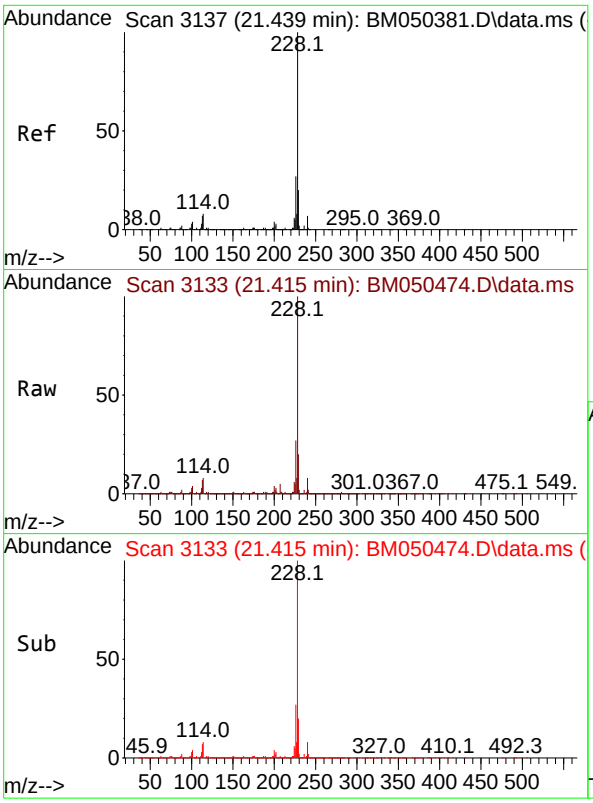


#80
Butylbenzylphthalate
Concen: 47.286 ng
RT: 20.515 min Scan# 2980
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:149 Resp: 2668401

Ion	Ratio	Lower	Upper
149	100		
91	62.7	51.6	77.4
206	24.9	17.8	26.8

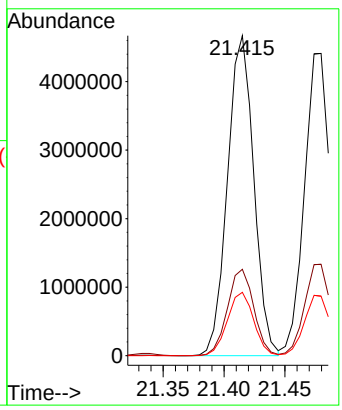




#81
Benzo(a)anthracene
Concen: 40.281 ng
RT: 21.415 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:228 Resp: 701339

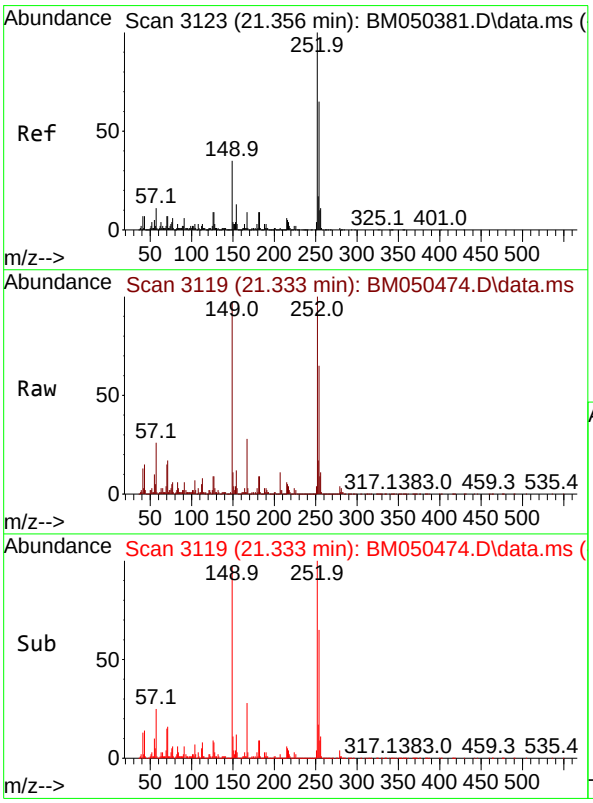
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.8	32.8
229	19.8	16.0	24.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

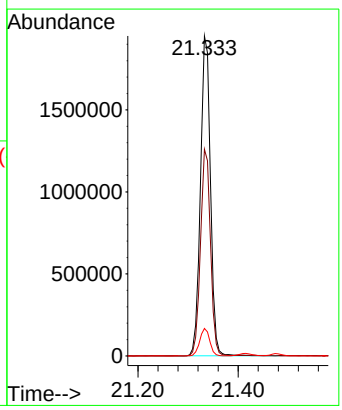
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

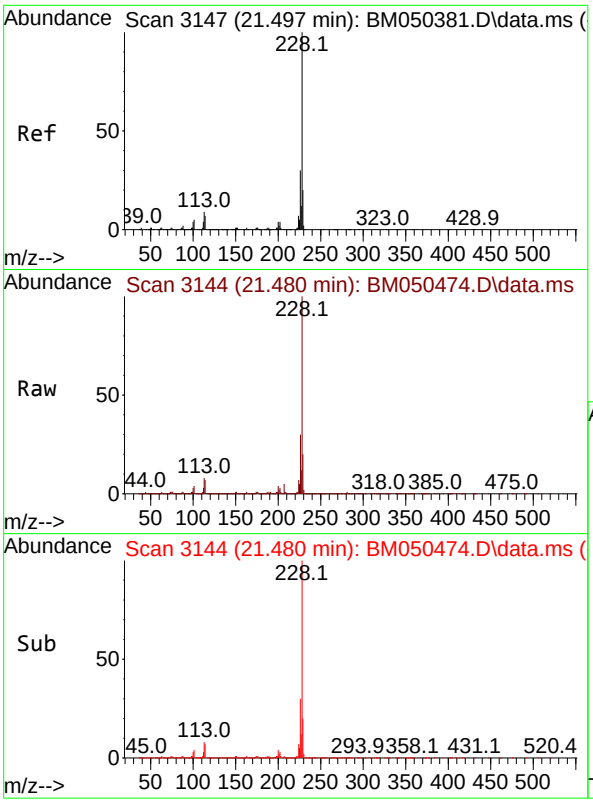


#82
3,3'-Dichlorobenzidine
Concen: 45.953 ng
RT: 21.333 min Scan# 3119
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:252 Resp: 2698245

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.7	77.5
126	8.6	7.3	10.9

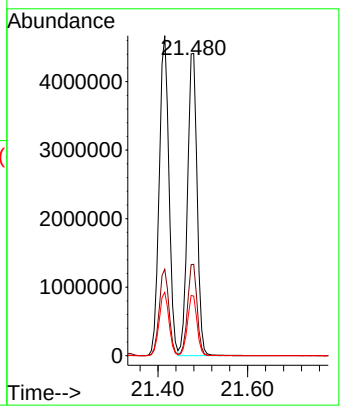




#83
Chrysene
Concen: 39.865 ng
RT: 21.480 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:228 Resp: 654690

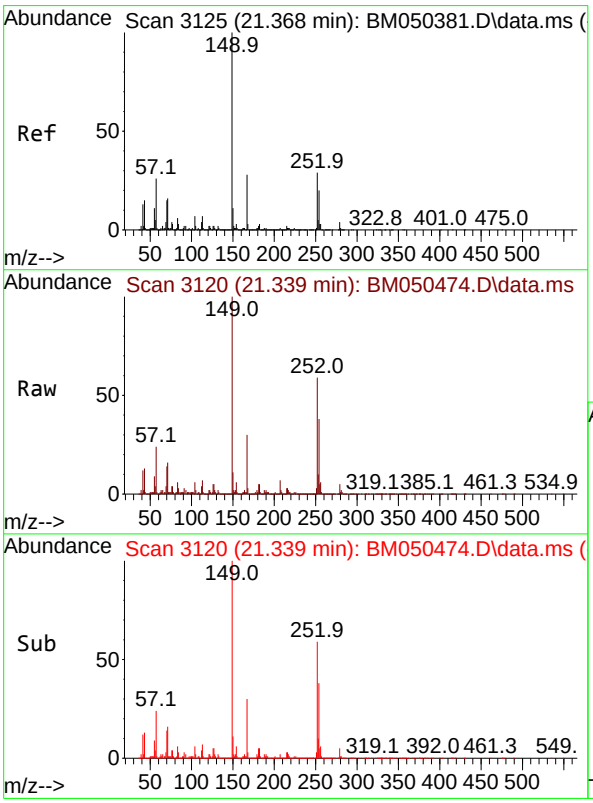
Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.2	36.4
229	19.7	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

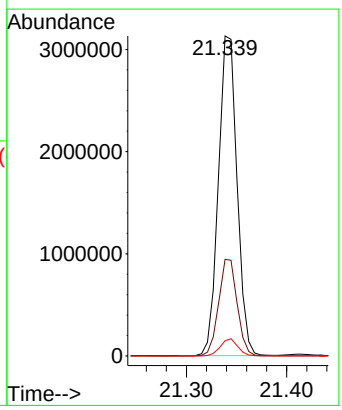
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

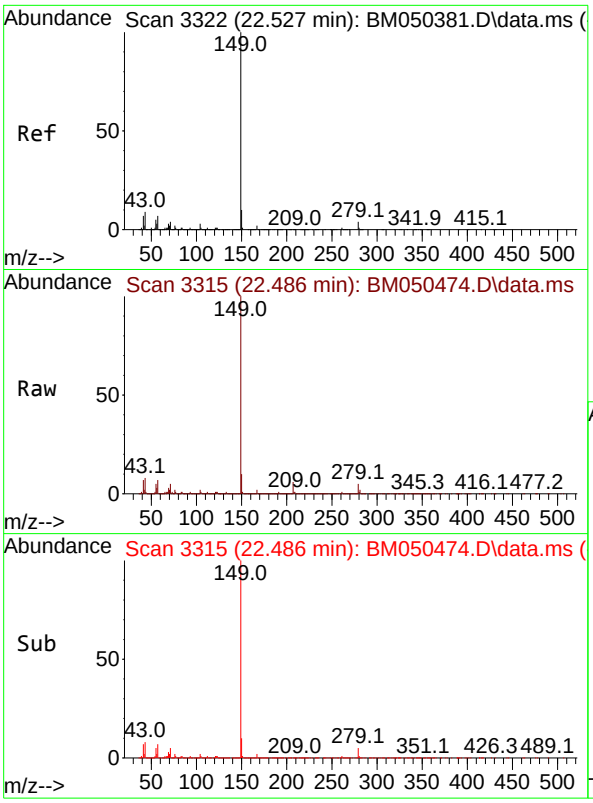


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.060 ng
RT: 21.339 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:149 Resp: 4036567

Ion	Ratio	Lower	Upper
149	100		
167	30.2	22.7	34.1
279	4.8	3.5	5.3





#85
Di-n-octyl phthalate
Concen: 48.835 ng
RT: 22.486 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

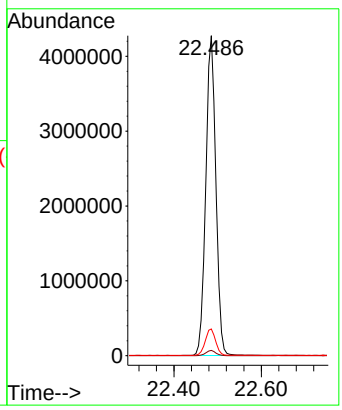
Tgt Ion:149 Resp: 685187

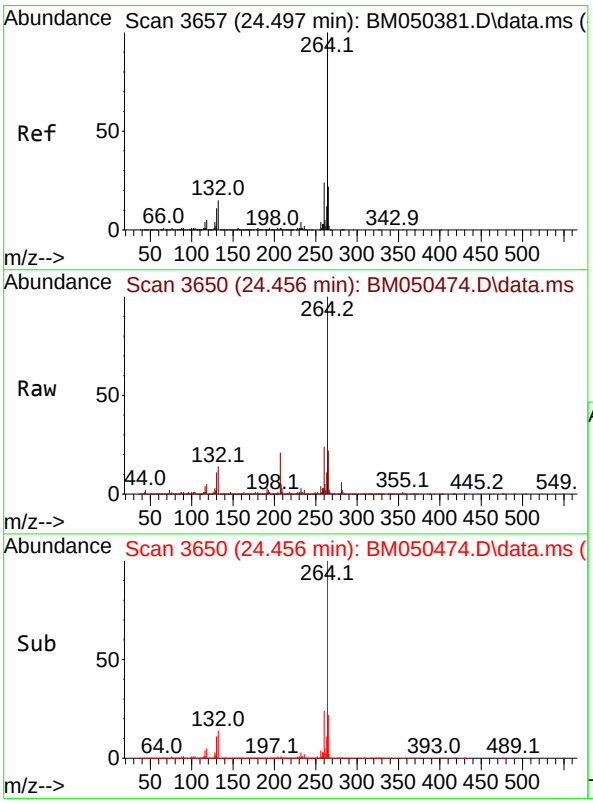
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	7.7	11.5

Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

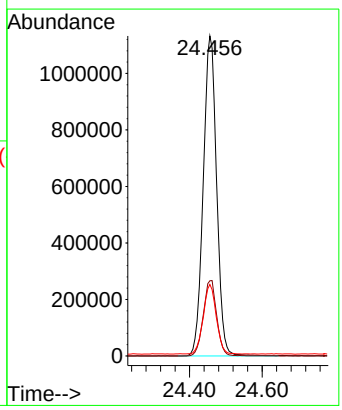


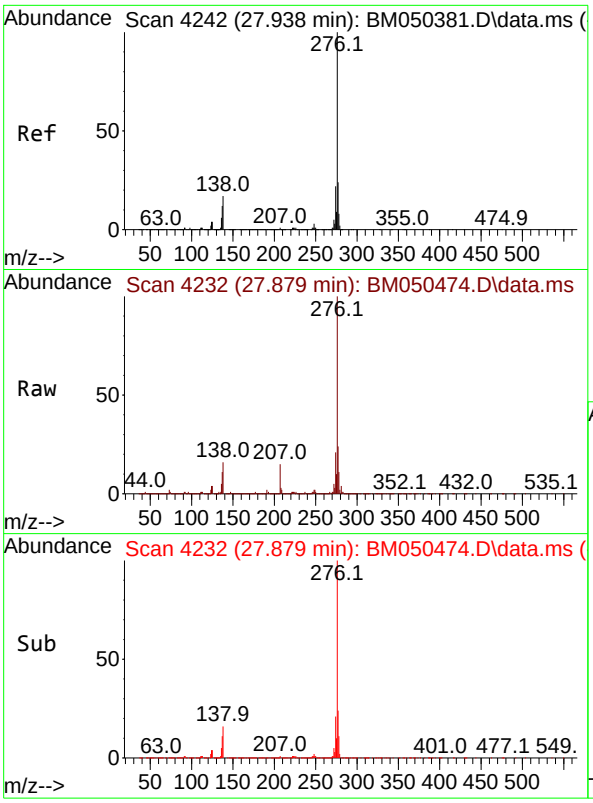


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.456 min Scan# 3650
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:264 Resp: 2895075

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.3	17.8	26.6

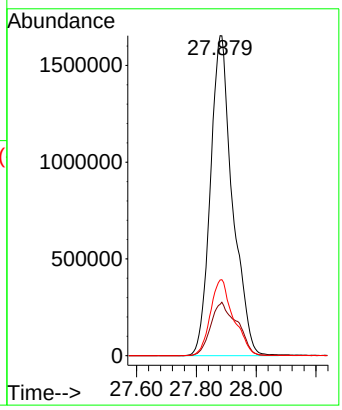




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.147 ng
RT: 27.879 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:276 Resp: 846964

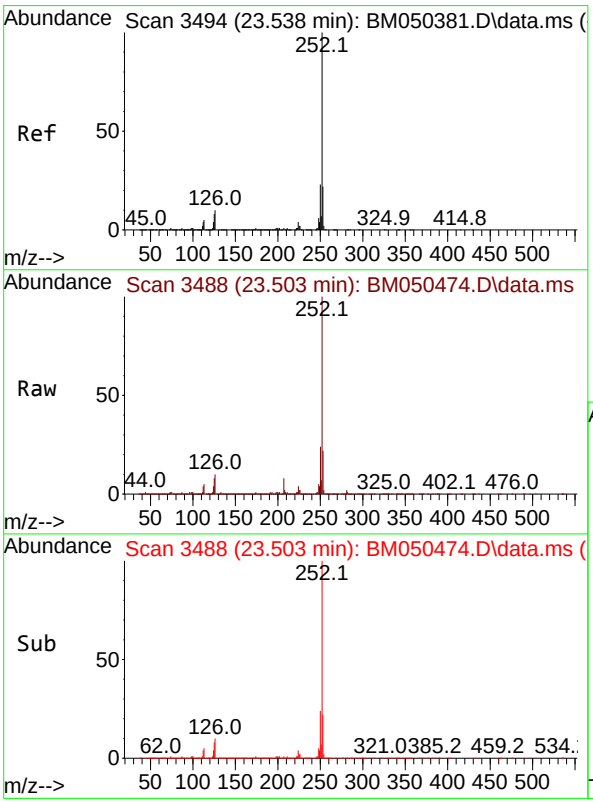
Ion	Ratio	Lower	Upper
276	100		
138	20.0	17.0	25.6
277	24.9	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

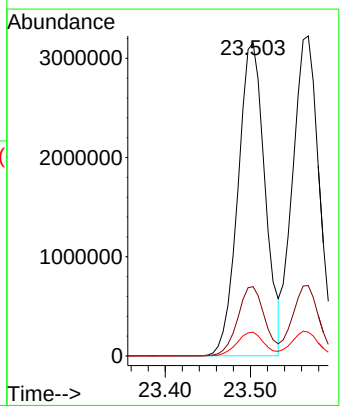
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

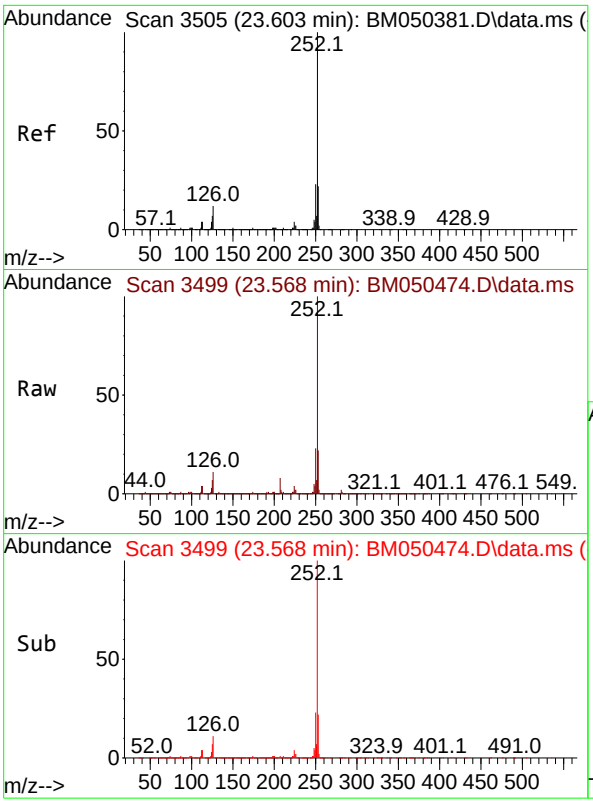


#88
Benzo(b)fluoranthene
Concen: 39.066 ng
RT: 23.503 min Scan# 3488
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:252 Resp: 6956656

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.6
125	7.6	6.3	9.5

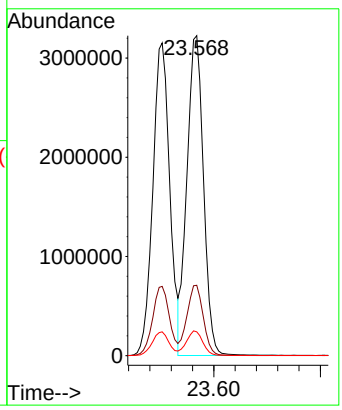




#89
Benzo(k)fluoranthene
Concen: 37.675 ng
RT: 23.568 min Scan# 34
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:252 Resp: 696147

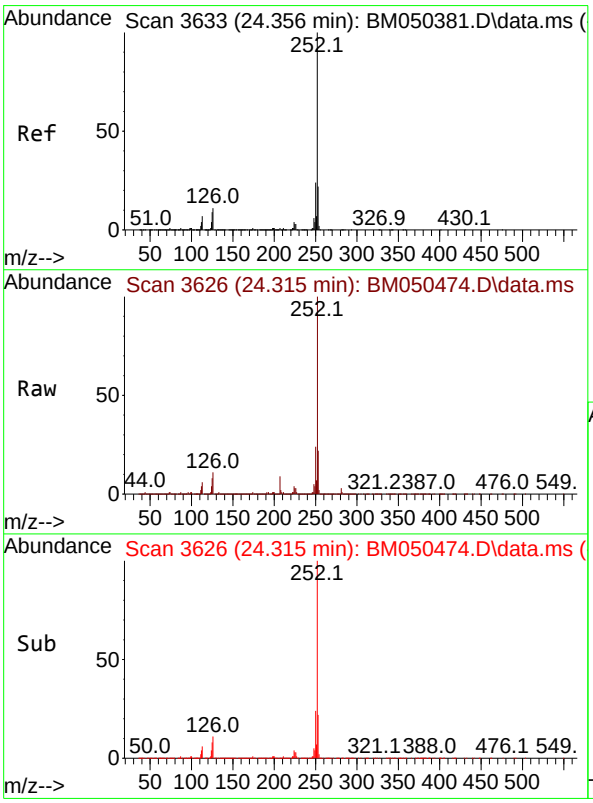
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	7.5	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

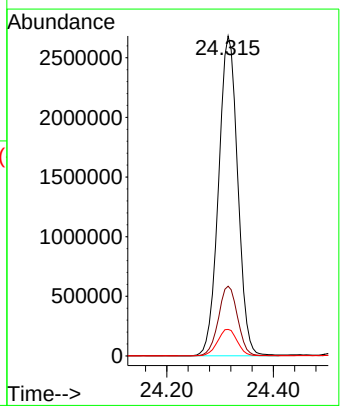
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

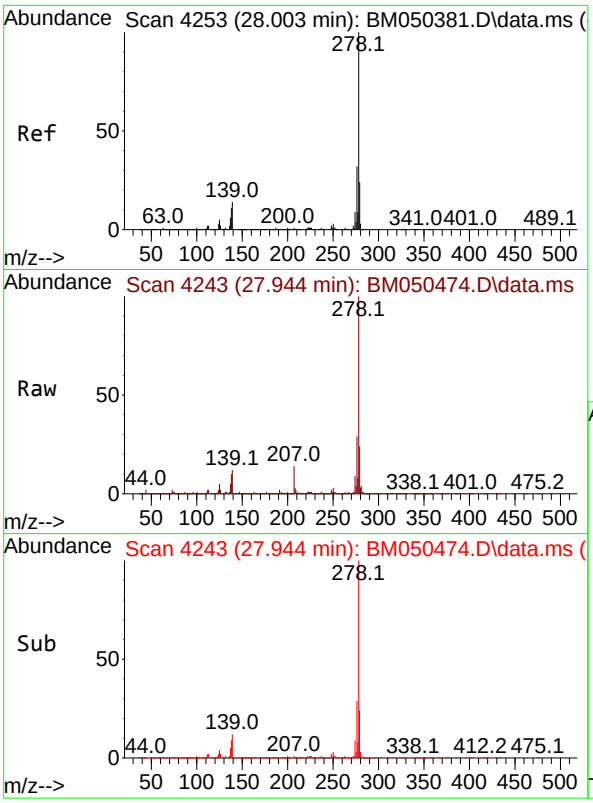


#90
Benzo(a)pyrene
Concen: 40.152 ng
RT: 24.315 min Scan# 3626
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:252 Resp: 6693276

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.8	26.6
125	8.3	7.0	10.4

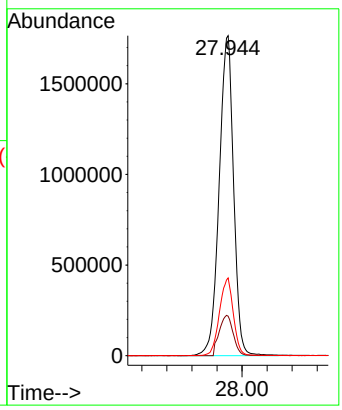




#91
Dibenzo(a,h)anthracene
Concen: 40.618 ng
RT: 27.944 min Scan# 4
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:278 Resp: 704110

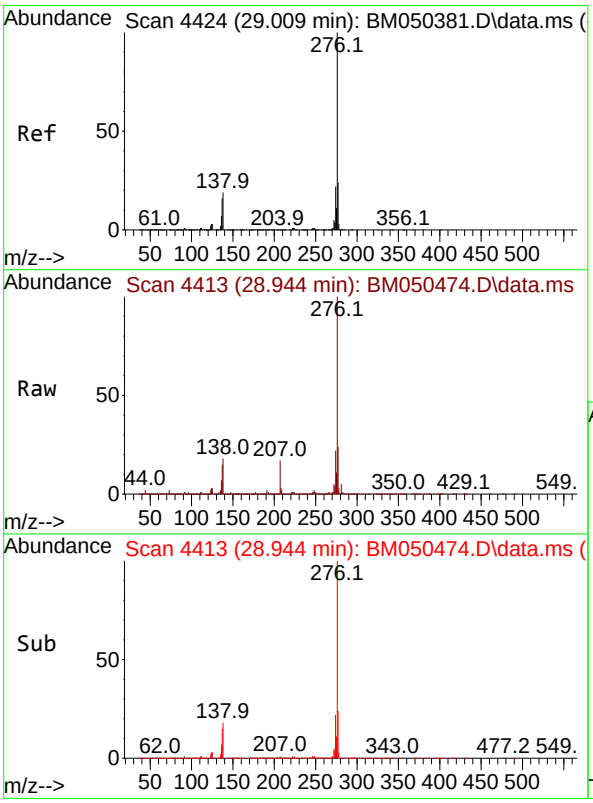
Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.8	16.2
279	24.3	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

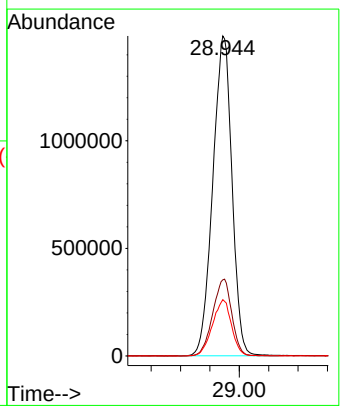
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025



#92
Benzo(g,h,i)perylene
Concen: 41.037 ng
RT: 28.944 min Scan# 4413
Delta R.T. 0.000 min
Lab File: BM050474.D
Acq: 17 Jul 2025 13:42

Tgt Ion:276 Resp: 6723327

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.1	28.7
138	17.6	14.9	22.3



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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	134	0.00
2		1,4-Dioxane	0.478	0.466	2.5	136	0.00
3		Pyridine	1.254	1.241	1.0	136	0.00
4		n-Nitrosodimethylamine	0.585	0.537	8.2	126	0.00
5	S	2-Fluorophenol	1.162	1.165	-0.3	136	0.00
6		Aniline	1.880	1.894	-0.7	135	0.00
7	S	Phenol-d6	1.465	1.479	-1.0	135	0.00
8		2-Chlorophenol	1.225	1.257	-2.6	139	0.00
9		Benzaldehyde	0.871	1.118	-28.4#	167#	0.00
10	C	Phenol	1.528	1.518	0.7	135	0.00
11		bis(2-Chloroethyl)ether	1.223	1.190	2.7	134	0.00
12		1,3-Dichlorobenzene	1.490	1.469	1.4	136	0.00
13	C	1,4-Dichlorobenzene	1.521	1.487	2.2	136	0.00
14		1,2-Dichlorobenzene	1.456	1.419	2.5	135	0.00
15		Benzyl Alcohol	1.032	1.037	-0.5	136	0.00
16		2,2'-oxybis(1-Chloropropane	1.802	1.679	6.8	129	0.00
17		2-Methylphenol	0.991	0.990	0.1	134	0.00
18		Hexachloroethane	0.535	0.522	2.4	135	0.00
19	P	n-Nitroso-di-n-propylamine	0.887	0.904	-1.9	133	0.00
20		3+4-Methylphenols	1.330	1.341	-0.8	136	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	132	0.00
22		Acetophenone	0.500	0.480	4.0	129	0.00
23	S	Nitrobenzene-d5	0.392	0.393	-0.3	132	0.00
24		Nitrobenzene	0.350	0.343	2.0	131	0.00
25		Isophorone	0.636	0.645	-1.4	133	0.00
26	C	2-Nitrophenol	0.143	0.173	-21.0#	156#	0.00
27		2,4-Dimethylphenol	0.303	0.306	-1.0	136	0.00
28		bis(2-Chloroethoxy)methane	0.422	0.412	2.4	130	0.00
29	C	2,4-Dichlorophenol	0.312	0.327	-4.8	139	0.00
30		1,2,4-Trichlorobenzene	0.373	0.377	-1.1	137	0.00
31		Naphthalene	1.016	0.986	3.0	132	0.00
32		Benzoic acid	0.165	0.211	-27.9#	170#	0.00
33		4-Chloroaniline	0.429	0.434	-1.2	134	0.00
34	C	Hexachlorobutadiene	0.228	0.231	-1.3	138	0.00
35		Caprolactam	0.085	0.094	-10.6	144	0.00
36	C	4-Chloro-3-methylphenol	0.291	0.302	-3.8	135	0.00
37		2-Methylnaphthalene	0.641	0.646	-0.8	135	0.00
38		1-Methylnaphthalene	0.679	0.683	-0.6	134	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	133	0.00
40		1,2,4,5-Tetrachlorobenzene	0.636	0.648	-1.9	138	0.00
41	P	Hexachlorocyclopentadiene	0.407	0.436	-7.1	146	0.00
42	S	2,4,6-Tribromophenol	0.243	0.284	-16.9	151#	0.00
43	C	2,4,6-Trichlorophenol	0.391	0.429	-9.7	144	0.00
44		2,4,5-Trichlorophenol	0.428	0.466	-8.9	144	0.00
45	S	2-Fluorobiphenyl	1.620	1.584	2.2	132	0.00
46		1,1'-Biphenyl	1.484	1.446	2.6	133	0.00
47		2-Chloronaphthalene	1.183	1.150	2.8	133	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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	0.264	0.292	-10.6	139	0.00
49		Acenaphthylene	1.788	1.781	0.4	133	0.00
50		Dimethylphthalate	1.377	1.386	-0.7	136	0.00
51		2,6-Dinitrotoluene	0.264	0.293	-11.0	142	0.00
52	C	Acenaphthene	1.137	1.073	5.6	128	0.00
53		3-Nitroaniline	0.281	0.312	-11.0	141	0.00
54	P	2,4-Dinitrophenol	0.121	0.165	-36.4#	187#	0.00
55		Dibenzofuran	1.751	1.709	2.4	133	0.00
56	P	4-Nitrophenol	0.242	0.266	-9.9	144	0.00
57		2,4-Dinitrotoluene	0.350	0.407	-16.3	146	0.00
58		Fluorene	1.443	1.422	1.5	133	0.00
59		2,3,4,6-Tetrachlorophenol	0.360	0.399	-10.8	145	0.00
60		Diethylphthalate	1.315	1.322	-0.5	134	0.00
61		4-Chlorophenyl-phenylether	0.754	0.746	1.1	133	0.00
62		4-Nitroaniline	0.288	0.320	-11.1	137	0.00
63		Azobenzene	1.208	1.157	4.2	127	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	139	0.00
65		4,6-Dinitro-2-methylphenol	0.095	0.121	-27.4#	179#	0.00
66	c	n-Nitrosodiphenylamine	0.626	0.610	2.6	136	0.00
67		4-Bromophenyl-phenylether	0.220	0.226	-2.7	144	0.00
68		Hexachlorobenzene	0.260	0.264	-1.5	143	0.00
69		Atrazine	0.206	0.219	-6.3	143	0.00
70	C	Pentachlorophenol	0.162	0.180	-11.1	155#	0.00
71		Phenanthrene	1.132	1.090	3.7	137	0.00
72		Anthracene	1.127	1.110	1.5	138	0.00
73		Carbazole	1.019	1.009	1.0	138	0.00
74		Di-n-butylphthalate	1.116	1.152	-3.2	140	0.00
75	C	Fluoranthene	1.230	1.267	-3.0	142	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	140	0.00
77		Benzidine	0.510	0.709	-39.0#	180#	0.00
78		Pyrene	1.281	1.273	0.6	142	0.00
79	S	Terphenyl-d14	1.137	1.120	1.5	125	0.00
80		Butylbenzylphthalate	0.422	0.499	-18.2	159#	0.00
81		Benzo(a)anthracene	1.303	1.312	-0.7	144	0.00
82		3,3'-Dichlorobenzidine	0.439	0.505	-15.0	165#	0.00
83		Chrysene	1.229	1.225	0.3	142	0.00
84		Bis(2-ethylhexyl)phthalate	0.670	0.755	-12.7	150#	0.00
85	c	Di-n-octyl phthalate	1.050	1.282	-22.1#	170#	0.00
86	I	Perylene-d12	1.000	1.000	0.0	157#	0.00
87		Indeno(1,2,3-cd)pyrene	1.422	1.463	-2.9	162#	0.00
88		Benzo(b)fluoranthene	1.230	1.201	2.4	154#	0.00
89		Benzo(k)fluoranthene	1.276	1.202	5.8	150	0.00
90	C	Benzo(a)pyrene	1.152	1.156	-0.3	157#	0.00
91		Dibenzo(a,h)anthracene	1.198	1.216	-1.5	160#	0.00
92		Benzo(g,h,i)perylene	1.132	1.161	-2.6	163#	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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 = 2

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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	134	0.00
2		1,4-Dioxane	40.000	39.055	2.4	136	0.00
3		Pyridine	40.000	39.590	1.0	136	0.00
4		n-Nitrosodimethylamine	40.000	36.701	8.2	126	0.00
5	S	2-Fluorophenol	80.000	80.224	-0.3	136	0.00
6		Aniline	40.000	40.306	-0.8	135	0.00
7	S	Phenol-d6	80.000	80.758	-0.9	135	0.00
8		2-Chlorophenol	40.000	41.053	-2.6	139	0.00
9		Benzaldehyde	40.000	51.344	-28.4#	167	0.00
10	C	Phenol	40.000	39.746	0.6	135	0.00
11		bis(2-Chloroethyl)ether	40.000	38.892	2.8	134	0.00
12		1,3-Dichlorobenzene	40.000	39.439	1.4	136	0.00
13	C	1,4-Dichlorobenzene	40.000	39.099	2.3	136	0.00
14		1,2-Dichlorobenzene	40.000	38.971	2.6	135	0.00
15		Benzyl Alcohol	40.000	40.187	-0.5	136	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.266	6.8	129	0.00
17		2-Methylphenol	40.000	39.975	0.1	134	0.00
18		Hexachloroethane	40.000	39.058	2.4	135	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.738	-1.8	133	0.00
20		3+4-Methylphenols	40.000	40.317	-0.8	136	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	132	0.00
22		Acetophenone	40.000	38.371	4.1	129	0.00
23	S	Nitrobenzene-d5	80.000	80.189	-0.2	132	0.00
24		Nitrobenzene	40.000	39.263	1.8	131	0.00
25		Isophorone	40.000	40.552	-1.4	133	0.00
26	C	2-Nitrophenol	40.000	48.676	-21.7#	156	0.00
27		2,4-Dimethylphenol	40.000	40.409	-1.0	136	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.081	2.3	130	0.00
29	C	2,4-Dichlorophenol	40.000	41.992	-5.0	139	0.00
30		1,2,4-Trichlorobenzene	40.000	40.402	-1.0	137	0.00
31		Naphthalene	40.000	38.814	3.0	132	0.00
32		Benzoic acid	40.000	45.728	-14.3	170	0.00
33		4-Chloroaniline	40.000	40.450	-1.1	134	0.00
34	C	Hexachlorobutadiene	40.000	40.685	-1.7	138	0.00
35		Caprolactam	40.000	44.295	-10.7	144	0.00
36	C	4-Chloro-3-methylphenol	40.000	41.560	-3.9	135	0.00
37		2-Methylnaphthalene	40.000	40.297	-0.7	135	0.00
38		1-Methylnaphthalene	40.000	40.236	-0.6	134	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	133	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.759	-1.9	138	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.878	-7.2	146	0.00
42	S	2,4,6-Tribromophenol	80.000	93.381	-16.7	151	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.796	-9.5	144	0.00
44		2,4,5-Trichlorophenol	40.000	43.580	-8.9	144	0.00
45	S	2-Fluorobiphenyl	80.000	78.224	2.2	132	0.00
46		1,1'-Biphenyl	40.000	38.969	2.6	133	0.00
47		2-Chloronaphthalene	40.000	38.897	2.8	133	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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	44.208	-10.5	139	0.00
49		Acenaphthylene	40.000	39.833	0.4	133	0.00
50		Dimethylphthalate	40.000	40.270	-0.7	136	0.00
51		2,6-Dinitrotoluene	40.000	44.367	-10.9	142	0.00
52	C	Acenaphthene	40.000	37.753	5.6	128	0.00
53		3-Nitroaniline	40.000	44.377	-10.9	141	0.00
54	P	2,4-Dinitrophenol	40.000	47.990	-20.0	187	0.00
55		Dibenzofuran	40.000	39.019	2.5	133	0.00
56	P	4-Nitrophenol	40.000	44.005	-10.0	144	0.00
57		2,4-Dinitrotoluene	40.000	41.533	-3.8	146	0.00
58		Fluorene	40.000	39.416	1.5	133	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	44.383	-11.0	145	0.00
60		Diethylphthalate	40.000	40.194	-0.5	134	0.00
61		4-Chlorophenyl-phenylether	40.000	39.573	1.1	133	0.00
62		4-Nitroaniline	40.000	40.096	-0.2	137	0.00
63		Azobenzene	40.000	38.317	4.2	127	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	139	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.431	-13.6	179	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.981	2.5	136	0.00
67		4-Bromophenyl-phenylether	40.000	41.067	-2.7	144	0.00
68		Hexachlorobenzene	40.000	40.631	-1.6	143	0.00
69		Atrazine	40.000	42.547	-6.4	143	0.00
70	C	Pentachlorophenol	40.000	44.450	-11.1	155	0.00
71		Phenanthrene	40.000	38.529	3.7	137	0.00
72		Anthracene	40.000	39.417	1.5	138	0.00
73		Carbazole	40.000	39.613	1.0	138	0.00
74		Di-n-butylphthalate	40.000	41.312	-3.3	140	0.00
75	C	Fluoranthene	40.000	41.191	-3.0	142	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	140	0.00
77		Benzidine	40.000	55.614	-39.0#	180	0.00
78		Pyrene	40.000	39.752	0.6	142	0.00
79	S	Terphenyl-d14	80.000	78.795	1.5	125	0.00
80		Butylbenzylphthalate	40.000	47.286	-18.2	159	0.00
81		Benzo(a)anthracene	40.000	40.281	-0.7	144	0.00
82		3,3'-Dichlorobenzidine	40.000	45.953	-14.9	165	0.00
83		Chrysene	40.000	39.865	0.3	142	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	45.060	-12.7	150	0.00
85	c	Di-n-octyl phthalate	40.000	48.835	-22.1#	170	0.00
86	I	Perylene-d12	20.000	20.000	0.0	157	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	41.147	-2.9	162	0.00
88		Benzo(b)fluoranthene	40.000	39.066	2.3	154	0.00
89		Benzo(k)fluoranthene	40.000	37.675	5.8	150	0.00
90	C	Benzo(a)pyrene	40.000	40.152	-0.4	157	0.00
91		Dibenzo(a,h)anthracene	40.000	40.618	-1.5	160	0.00
92		Benzo(g,h,i)perylene	40.000	41.037	-2.6	163	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050474.D
Acq On : 17 Jul 2025 13:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_M
LabSampleId :
SSTDCCC040

Quant Time: Jul 17 16:20:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 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 = 2

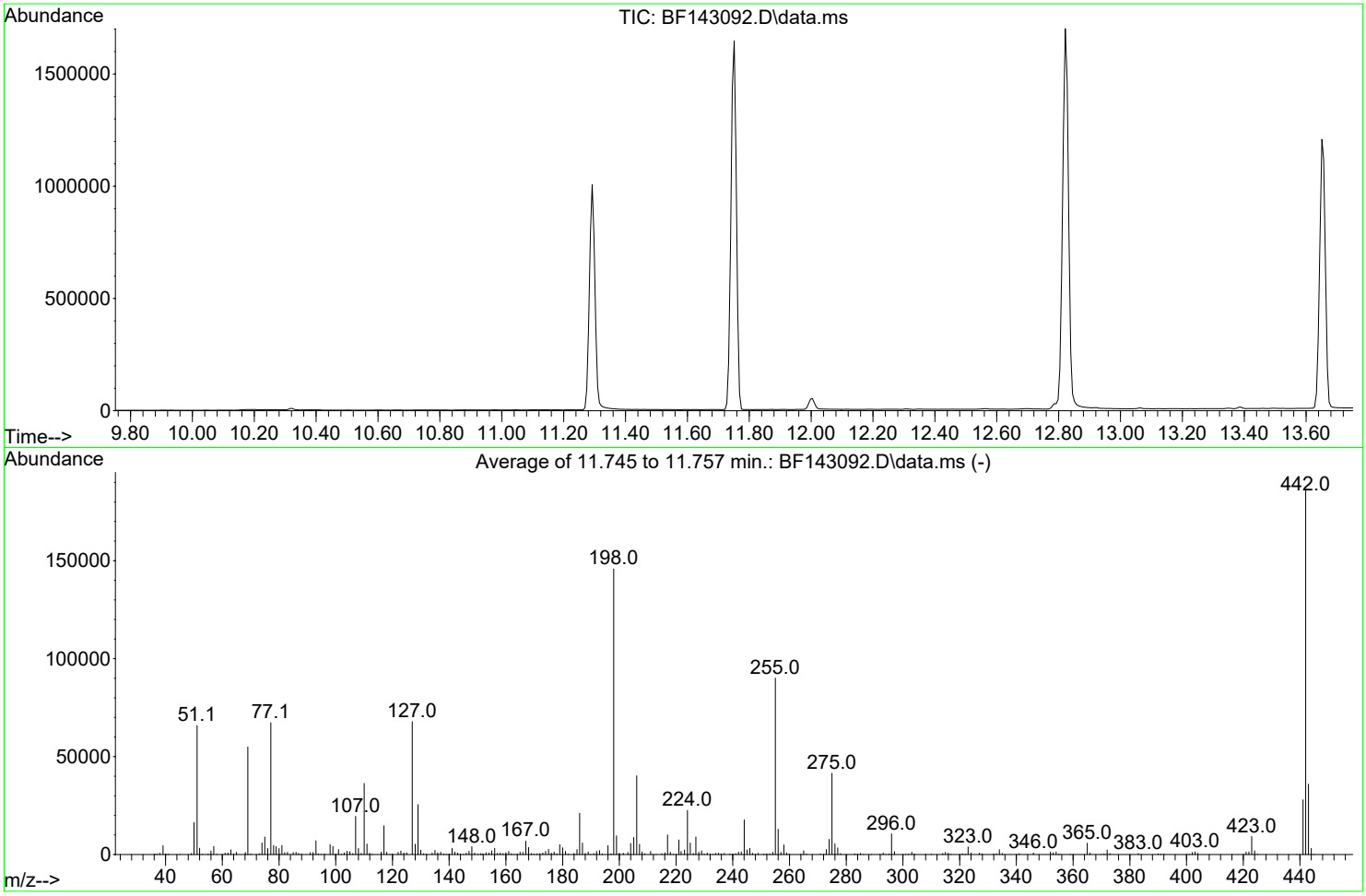
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143092.D
Acq On : 15 Jul 2025 12:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 15 17:53:25 2025



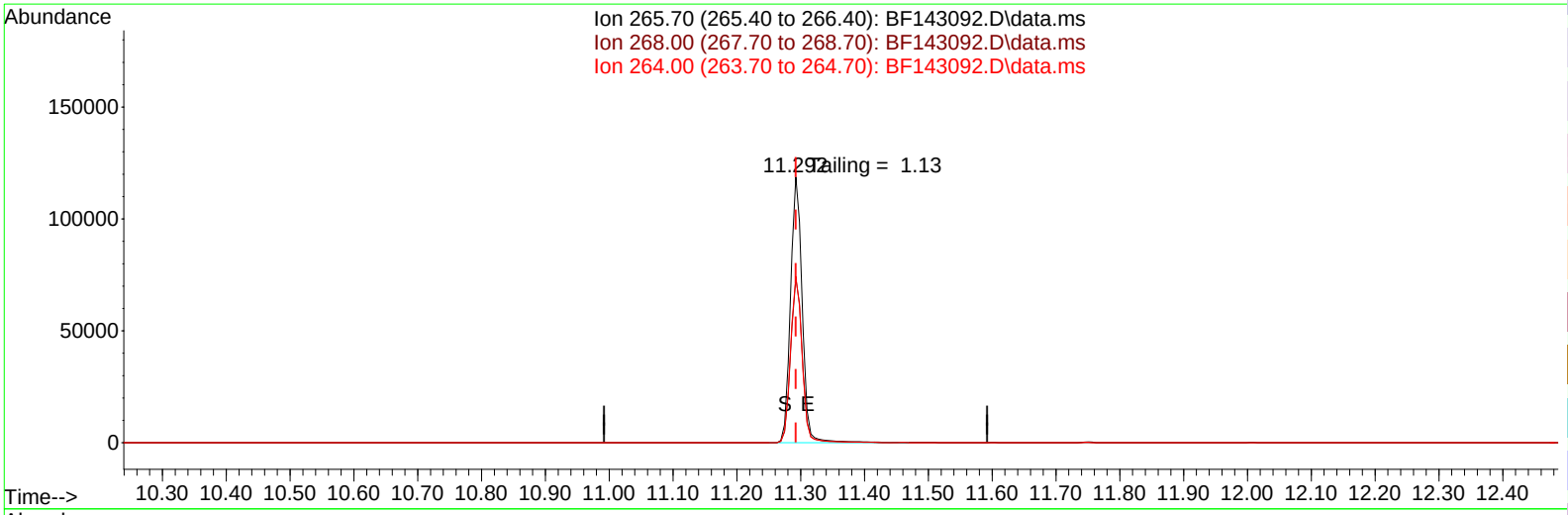
AutoFind: Scans 1624, 1625, 1626; Background Corrected with Scan 1617

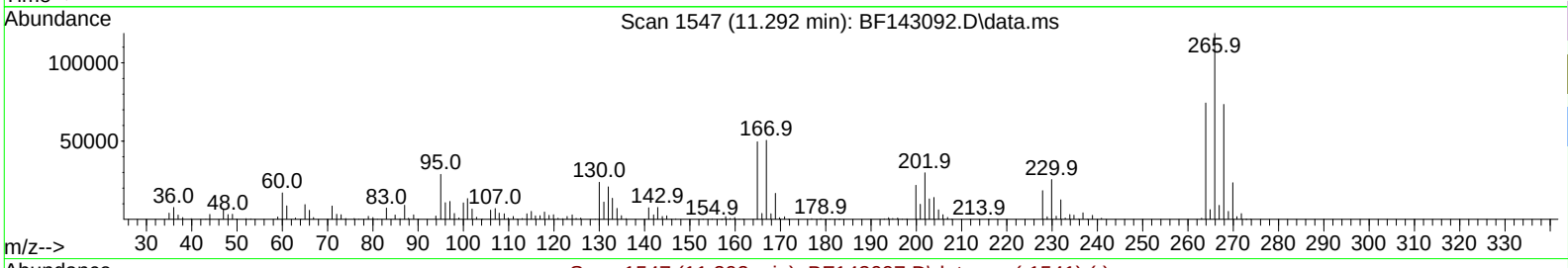
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	2.0	1083	PASS
69	69	100	100	100.0	55011	PASS
70	69	0.00	2	0.5	283	PASS
197	198	0.00	2	0.3	479	PASS
198	198	100	100	100.0	145821	PASS
199	198	5	9	6.5	9539	PASS
365	198	1	100	4.0	5805	PASS
441	443	0.01	150	77.7	27936	PASS
442	442	100	100	100.0	185813	PASS
443	442	15	24	19.4	35957	PASS

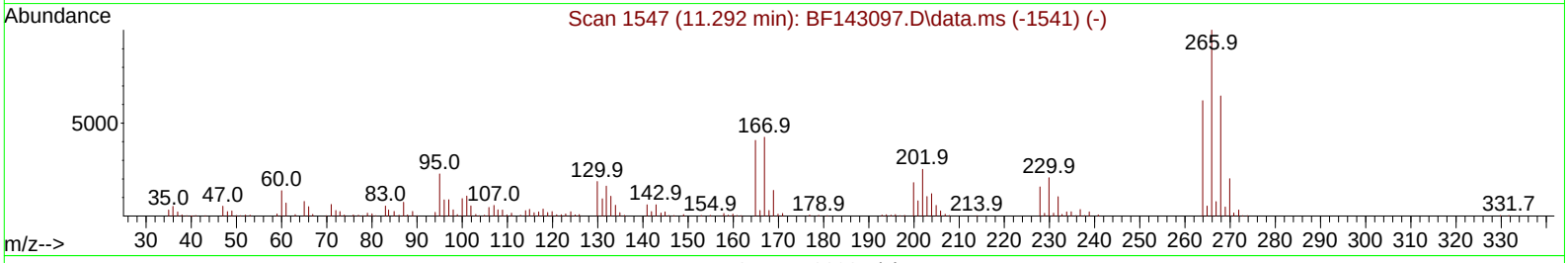
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143092.D
Acq On : 15 Jul 2025 12:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 15 18:02:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration







TIC: BF143092.D\data.ms

(70) Pentachlorophenol (C)

11.292min (+ 0.000) 28198.82 ng

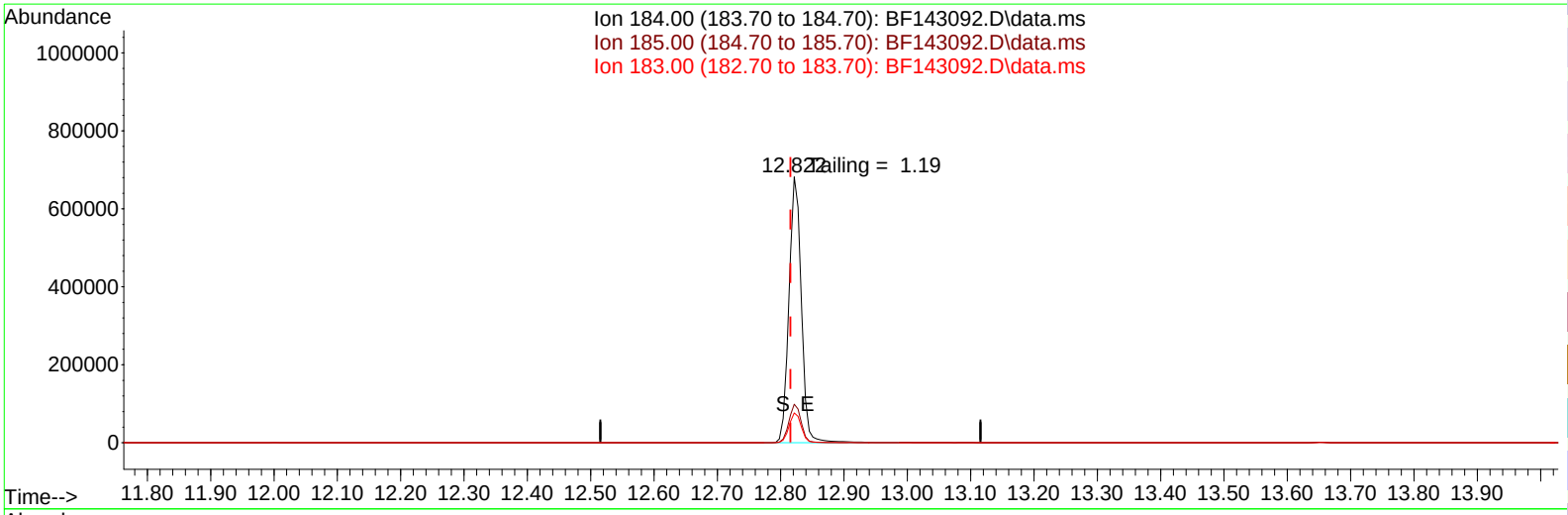
response 151956

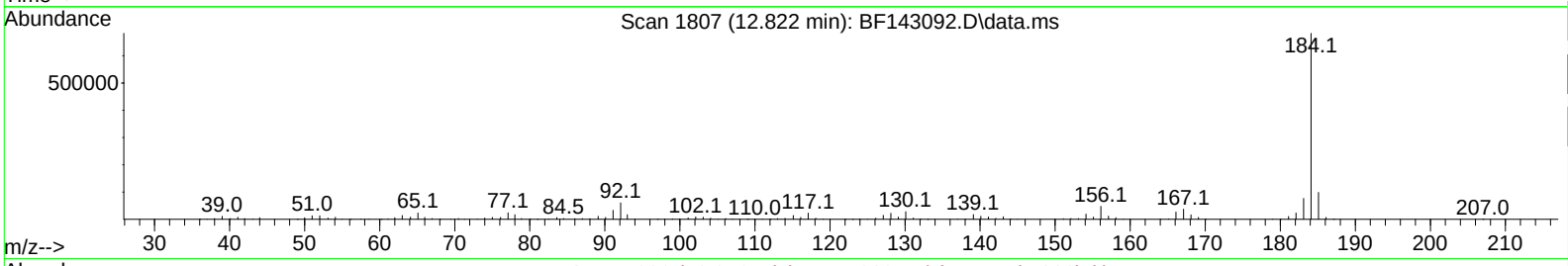
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.70	61.86
264.00	62.10	62.56
0.00	0.00	0.00

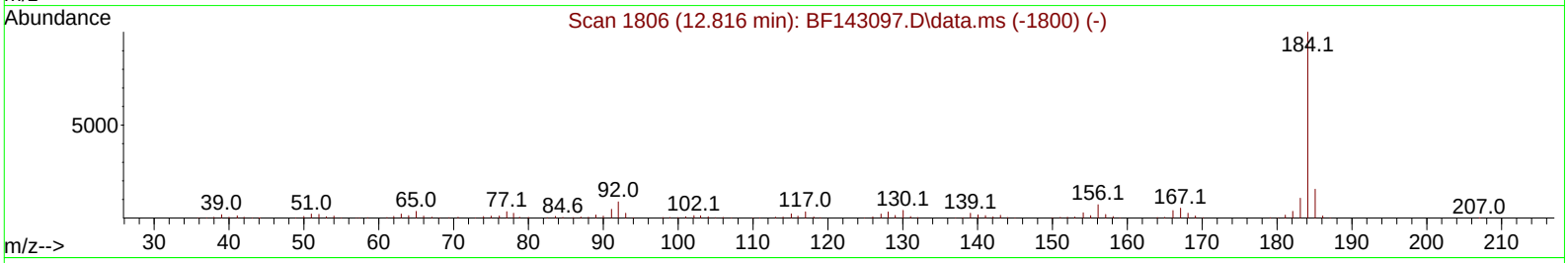
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071525\
Data File : BF143092.D
Acq On : 15 Jul 2025 12:35
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 15 18:02:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration







TIC: BF143092.D\data.ms

(77) Benzidine

12.822min (+ 0.006) 0.00 ng

response 925010

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.52
183.00	10.70	11.25
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

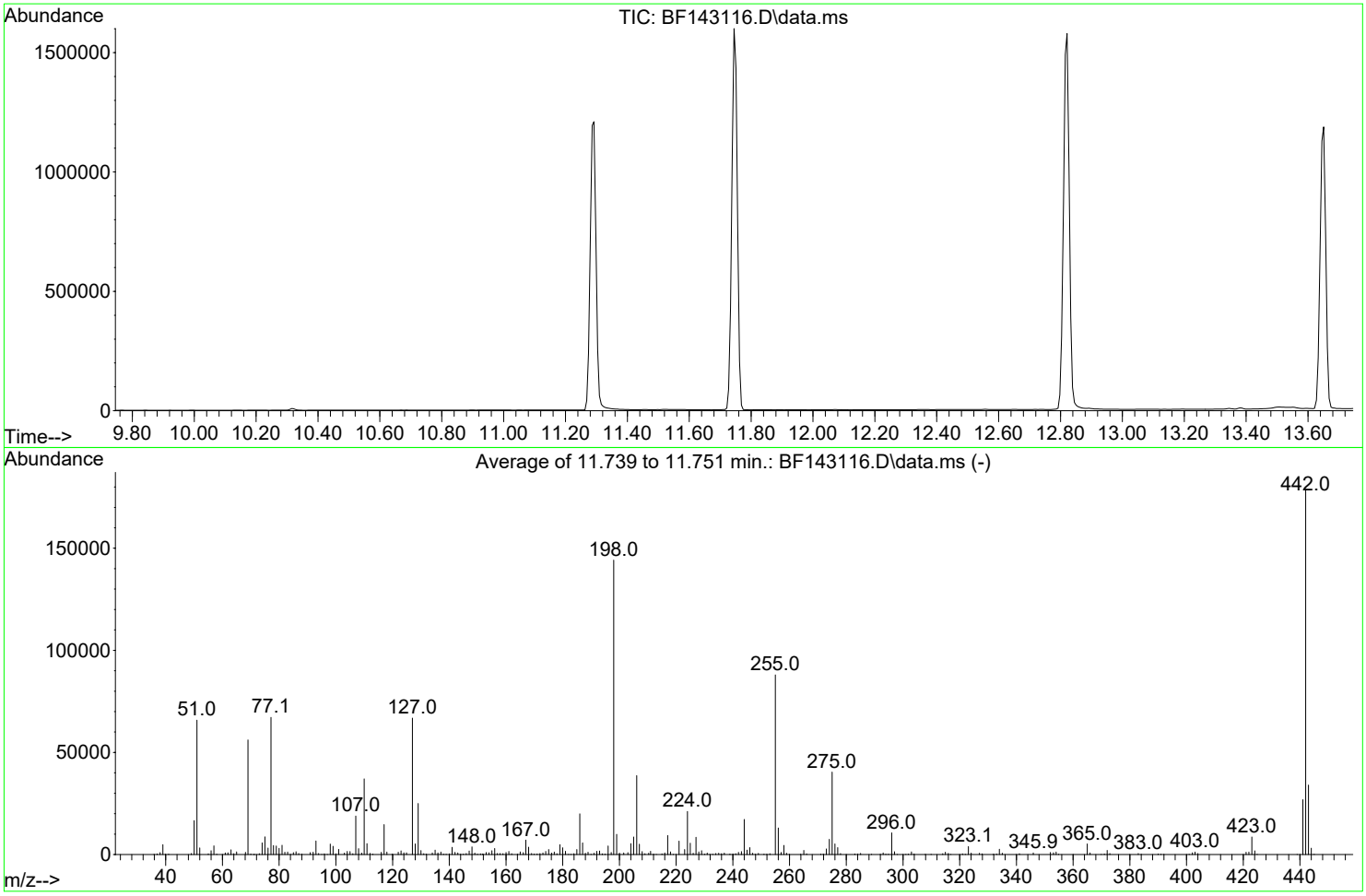
Date	Instrument Name	DFTPP Data File
7/15/2025	BNA_F	BF143092.D
Compound Name	**Response**	**Retention Time**
DDT	237029	13.651
DDD	2265	13.386
DDE	0	13.01
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
2265	239294	0.95

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143116.D
Acq On : 16 Jul 2025 19:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 15 17:53:25 2025



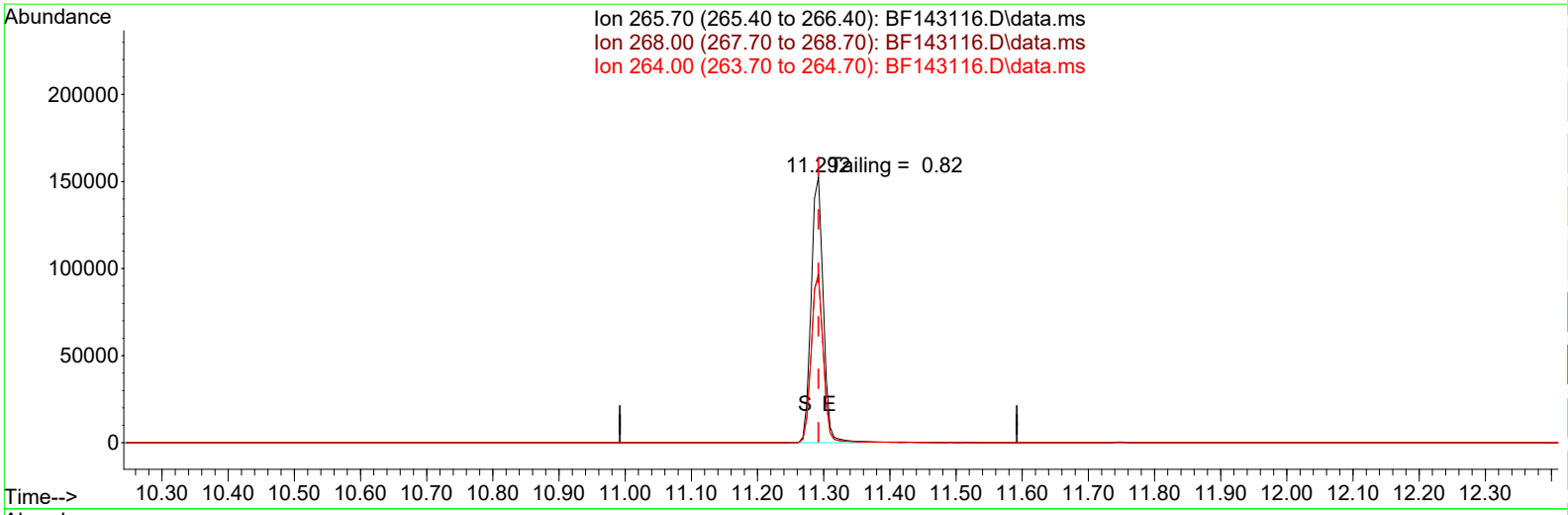
AutoFind: Scans 1623, 1624, 1625; Background Corrected with Scan 1617

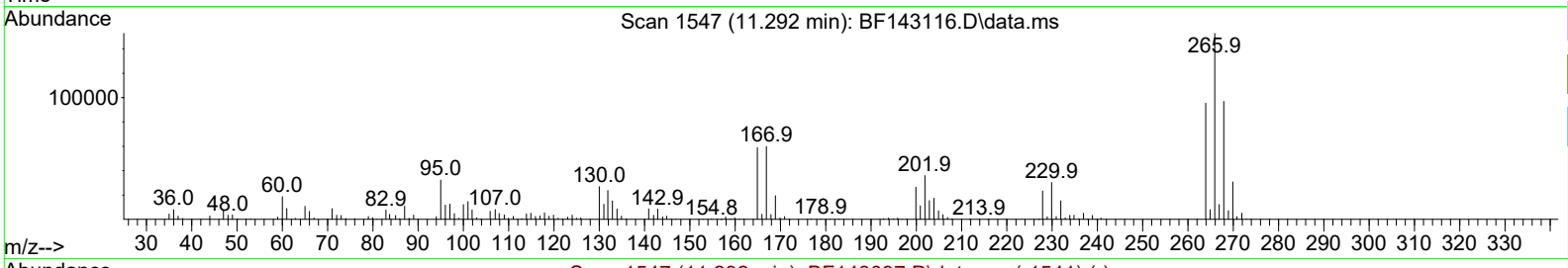
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.9	1058	PASS
69	69	100	100	100.0	56128	PASS
70	69	0.00	2	0.6	318	PASS
197	198	0.00	2	0.7	1000	PASS
198	198	100	100	100.0	144192	PASS
199	198	5	9	6.8	9864	PASS
365	198	1	100	3.6	5196	PASS
441	443	0.01	150	79.1	26908	PASS
442	442	100	100	100.0	178251	PASS
443	442	15	24	19.1	34024	PASS

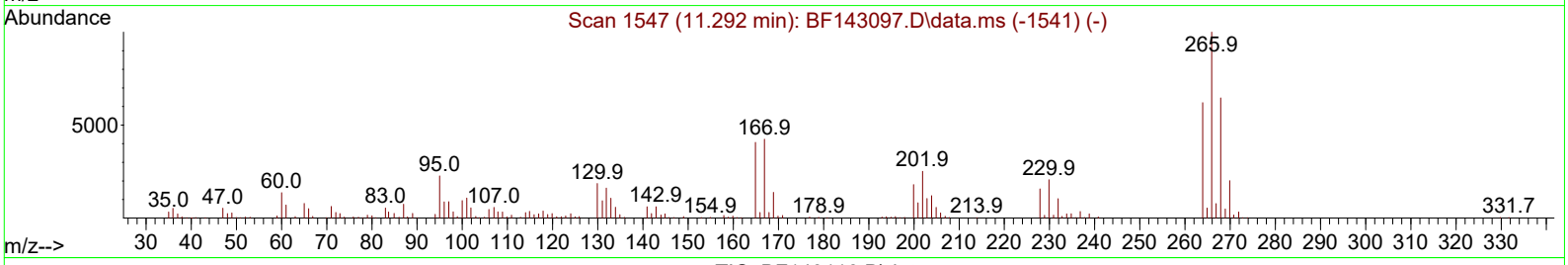
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143116.D
Acq On : 16 Jul 2025 19:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 17 03:11:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration







TIC: BF143116.D\data.ms

(70) Pentachlorophenol (C)

11.292min (-0.000) 32920.43 ng

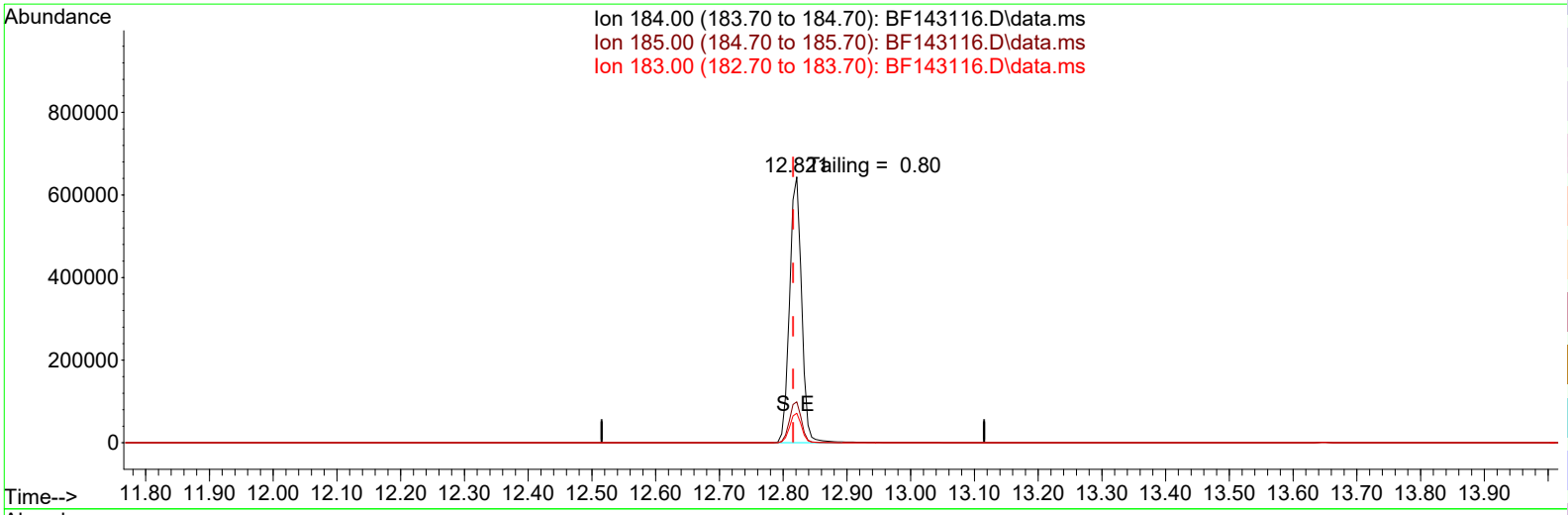
response 195924

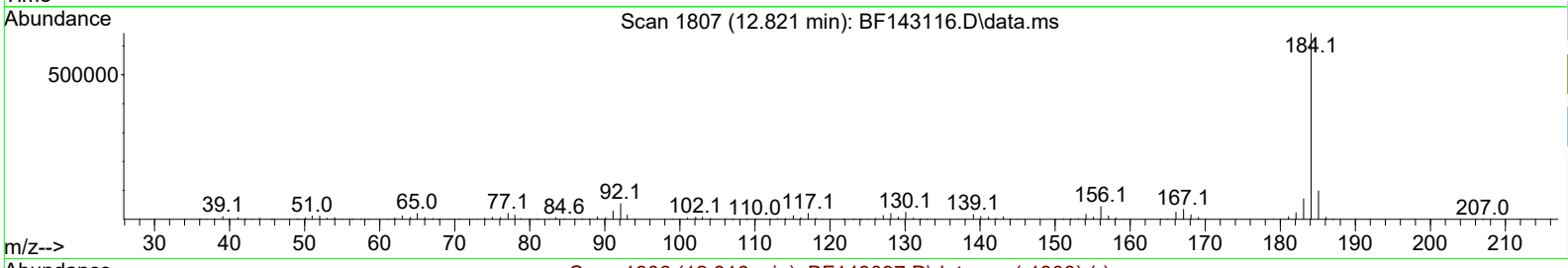
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	64.70	63.41
264.00	62.10	62.55
0.00	0.00	0.00

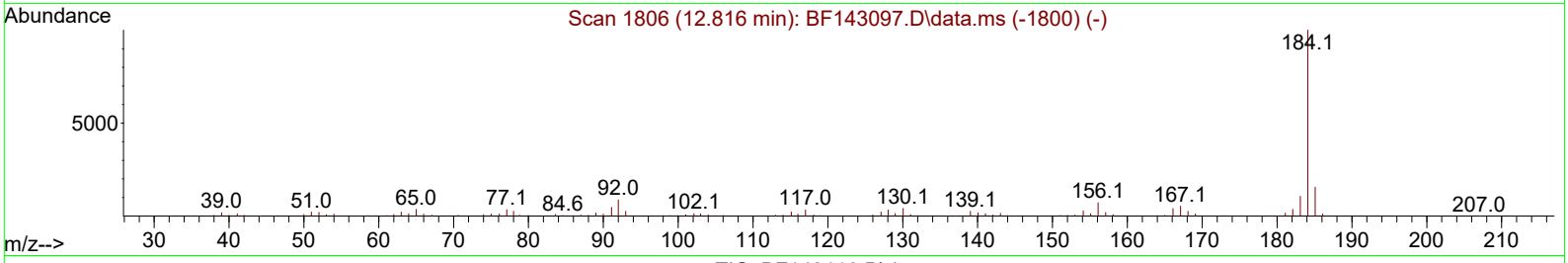
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143116.D
Acq On : 16 Jul 2025 19:09
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jul 17 03:11:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration







TIC: BF143116.D\data.ms

(77) Benzidine

12.821min (+ 0.006) 0.00 ng

response 848698

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.39
183.00	10.70	11.10
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/16/2025	BNA_F	BF143116.D
Compound Name	**Response**	**Retention Time**
DDT	269374	13.651
DDD	2925	13.38
DDE	0	
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
2925	272299	1.07

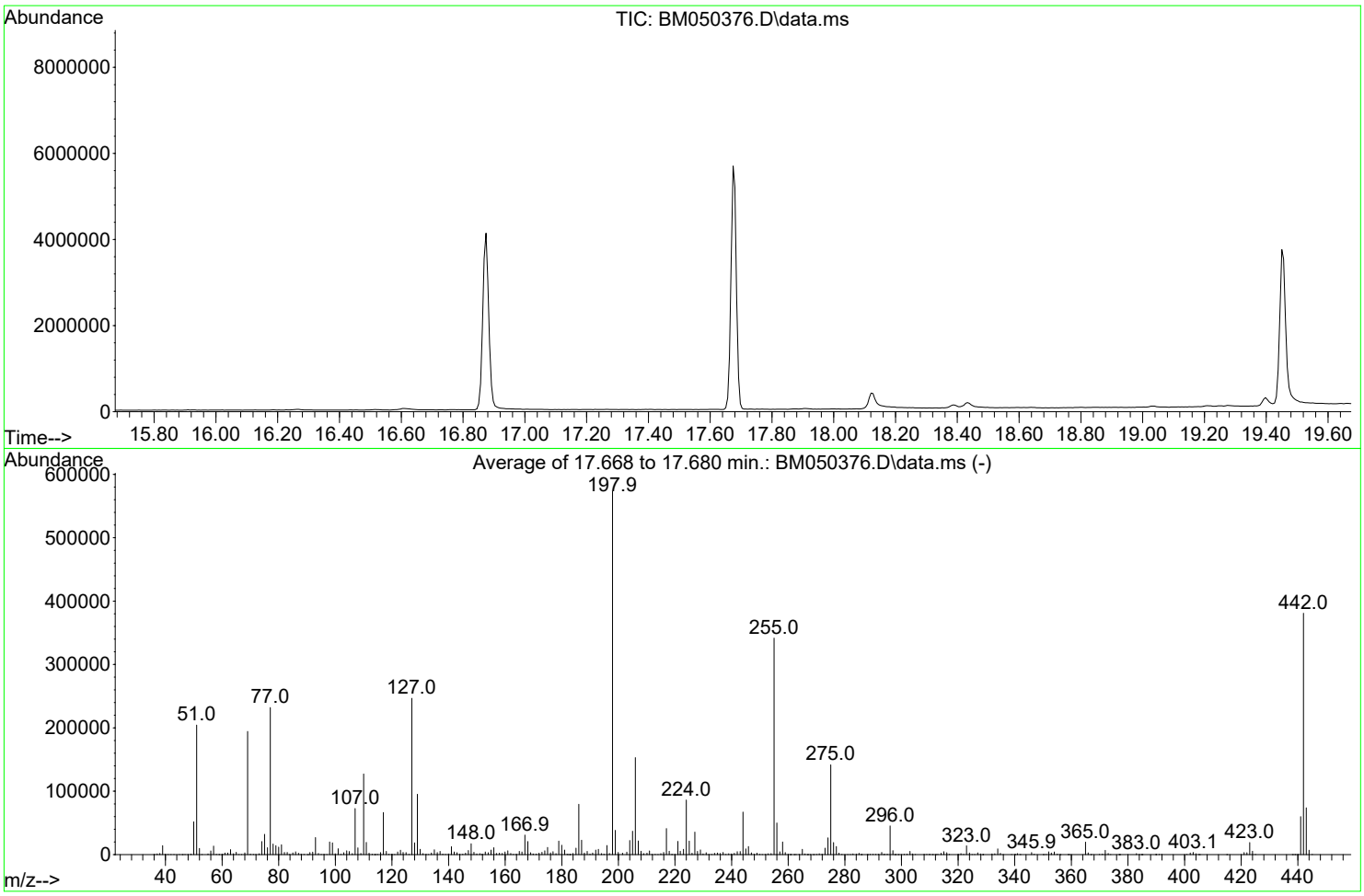
Sample Results: **BM050376.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050376.D
Acq On : 08 Jul 2025 11:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Jul 08 18:32:25 2025



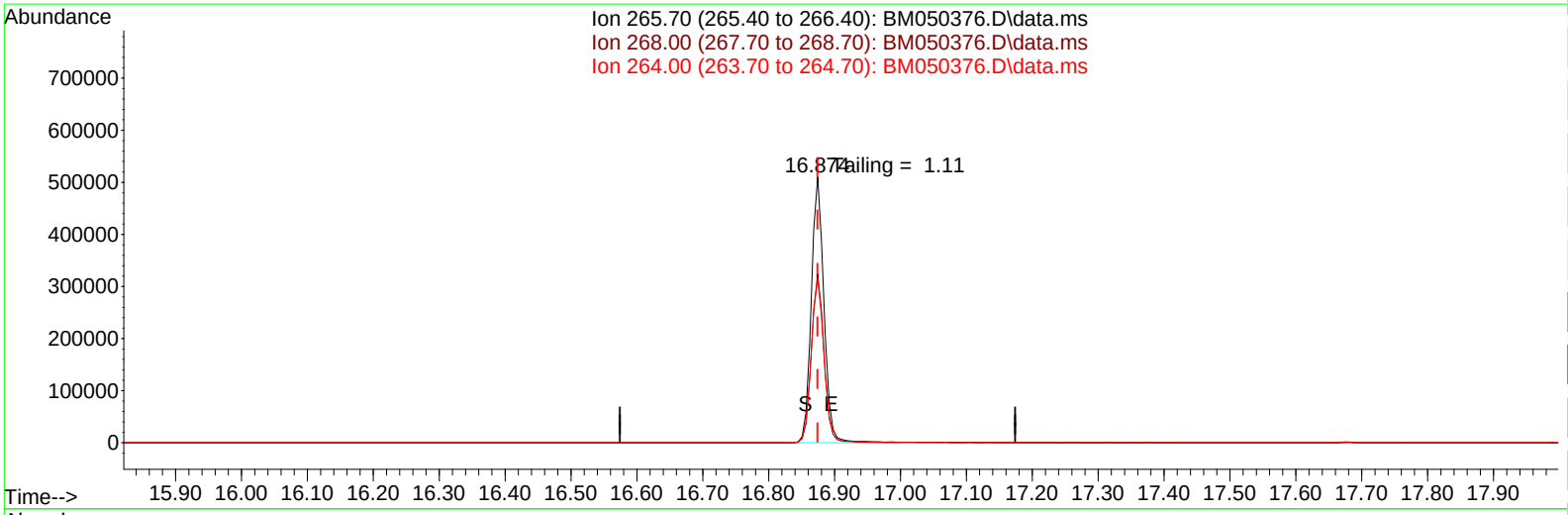
AutoFind: Scans 2496, 2497, 2498; Background Corrected with Scan 2489

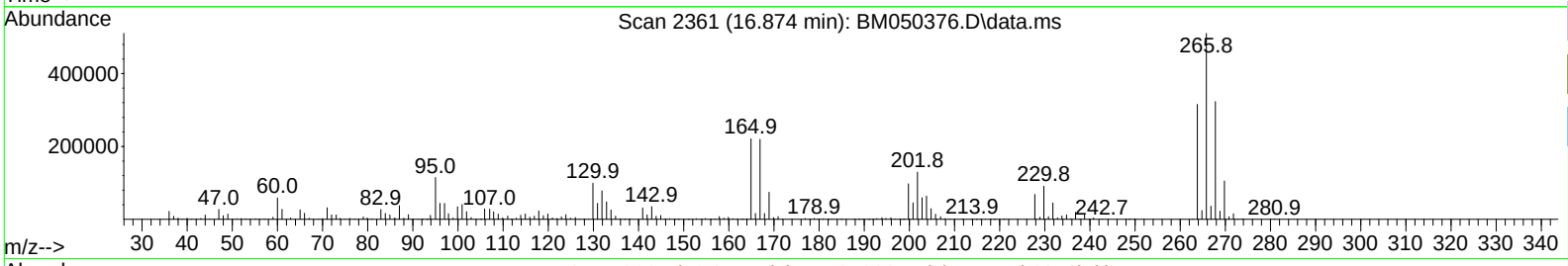
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	2822	PASS
69	69	100	100	100.0	194463	PASS
70	69	0.00	2	0.5	943	PASS
197	198	0.00	2	0.3	1831	PASS
198	198	100	100	100.0	573141	PASS
199	198	5	9	6.7	38261	PASS
365	198	1	100	3.4	19723	PASS
441	443	0.01	150	81.4	60059	PASS
442	442	100	100	100.0	380992	PASS
443	442	15	24	19.4	73781	PASS

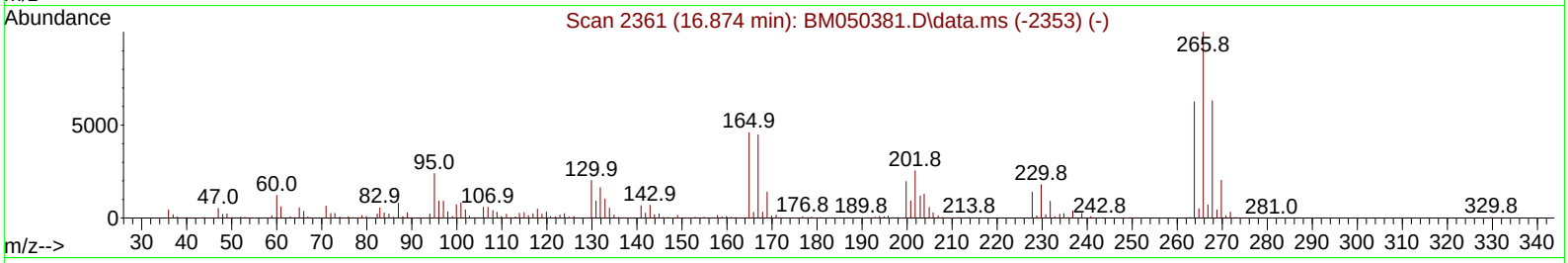
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050376.D
Acq On : 08 Jul 2025 11:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 08 17:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 15:59:58 2025
Response via : Initial Calibration







TIC: BM050376.D\data.ms

(70) Pentachlorophenol (C)

16.874min (+ 0.000) 0.00 ng

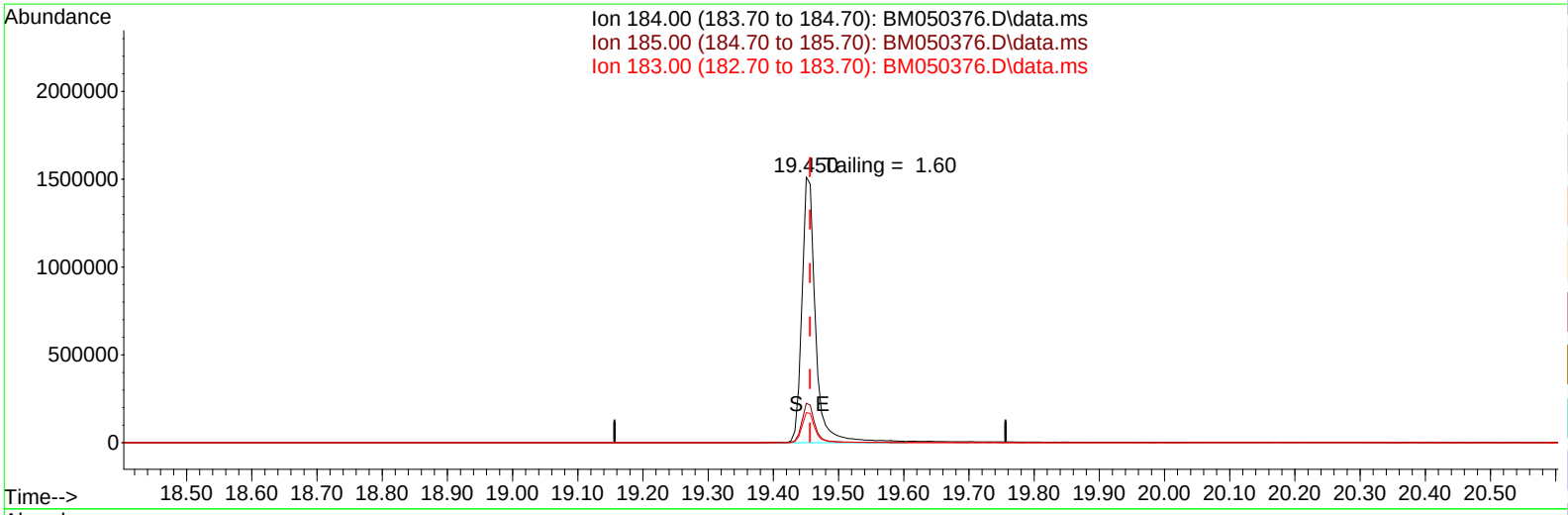
response 680595

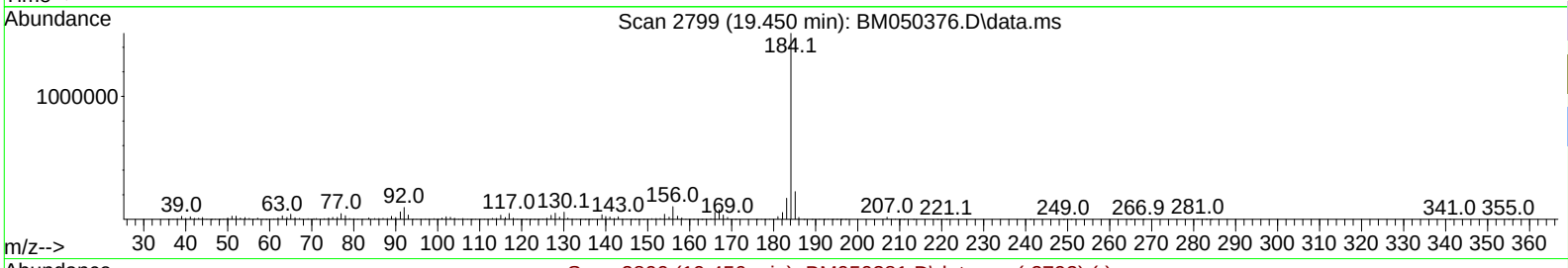
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	63.37
264.00	62.40	61.79
0.00	0.00	0.00

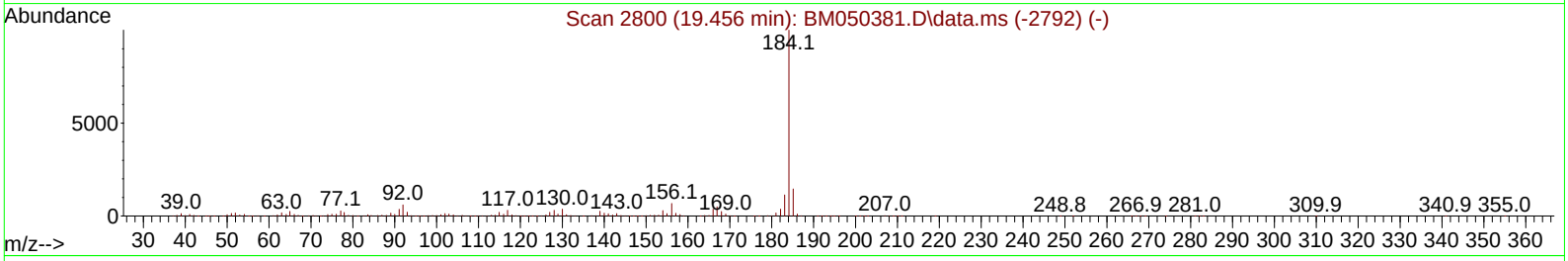
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM070925\
Data File : BM050376.D
Acq On : 08 Jul 2025 11:59
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 08 17:14:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 08 15:59:58 2025
Response via : Initial Calibration







TIC: BM050376.D\data.ms

(77) Benzidine

19.450min (-0.006) 78341.13 ng

response 2201890

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	14.87
183.00	11.30	11.33
0.00	0.00	0.00

Instrument :
BNA_M
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/9/2025	BNA_M	BM050376.D
Compound Name	**Response**	**Retention Time**
DDT	1842274	20.692
DDD	18107	20.309
DDE	1079	19.75
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
19186	1861460	1.03

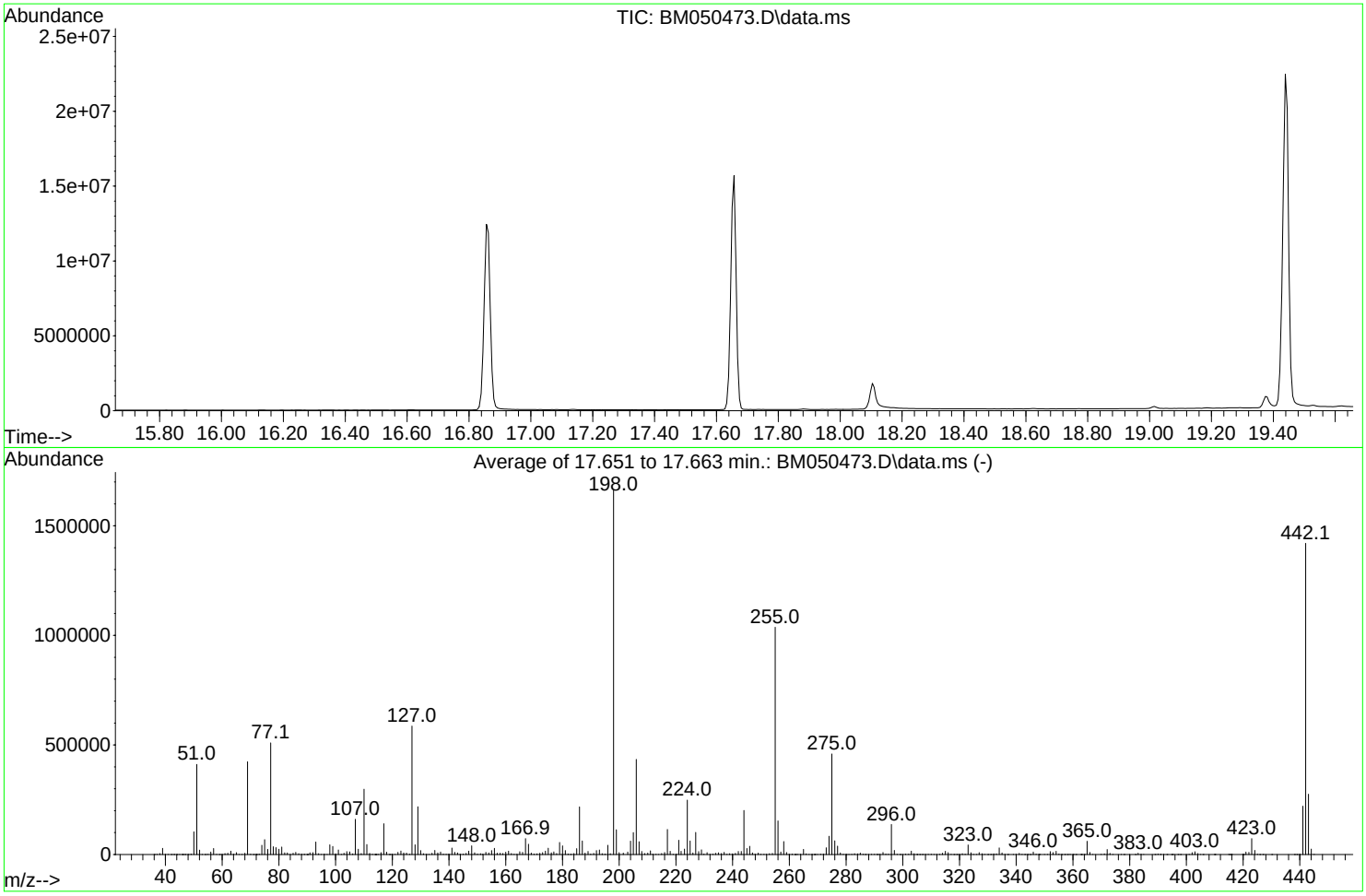
Sample Results: **BM050473.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050473.D
Acq On : 17 Jul 2025 13:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Oct 07 11:38:17 2020



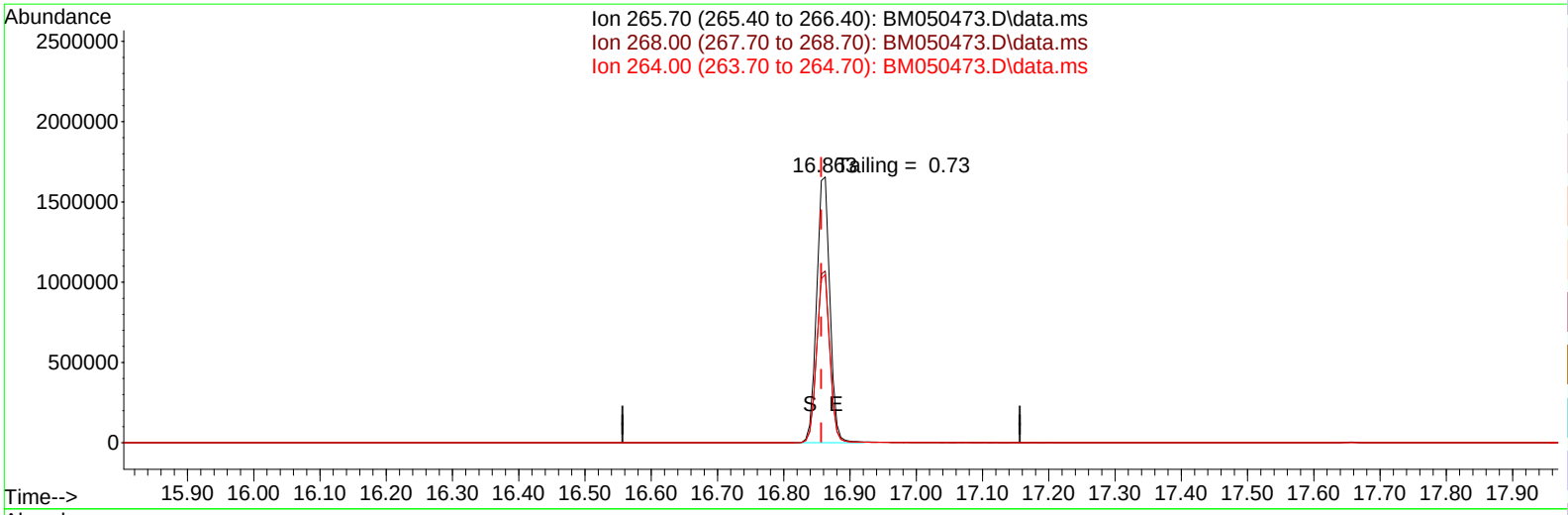
AutoFind: Scans 2493, 2494, 2495; Background Corrected with Scan 2485

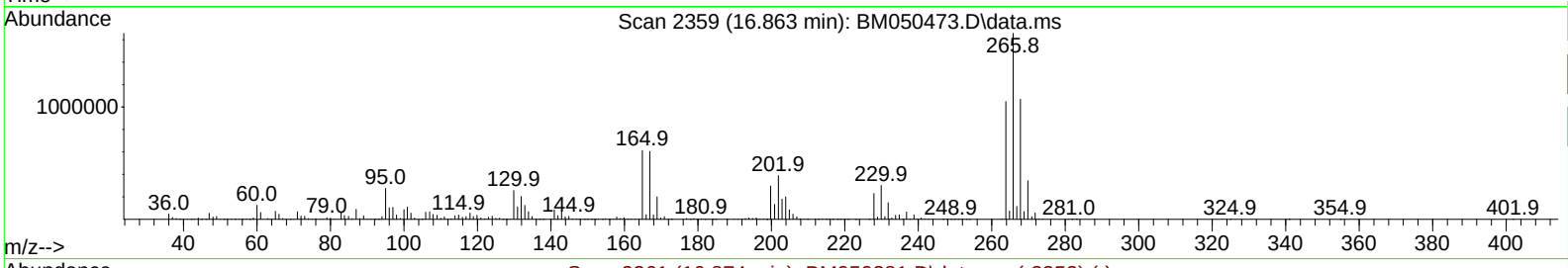
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	6225	PASS
69	69	100	100	100.0	423672	PASS
70	69	0.00	2	0.5	2225	PASS
197	198	0.00	2	0.2	4012	PASS
198	198	100	100	100.0	1660757	PASS
199	198	5	9	6.8	113293	PASS
365	198	1	100	3.6	60509	PASS
441	443	0.01	150	80.2	220800	PASS
442	442	100	100	100.0	1419947	PASS
443	442	15	24	19.4	275179	PASS

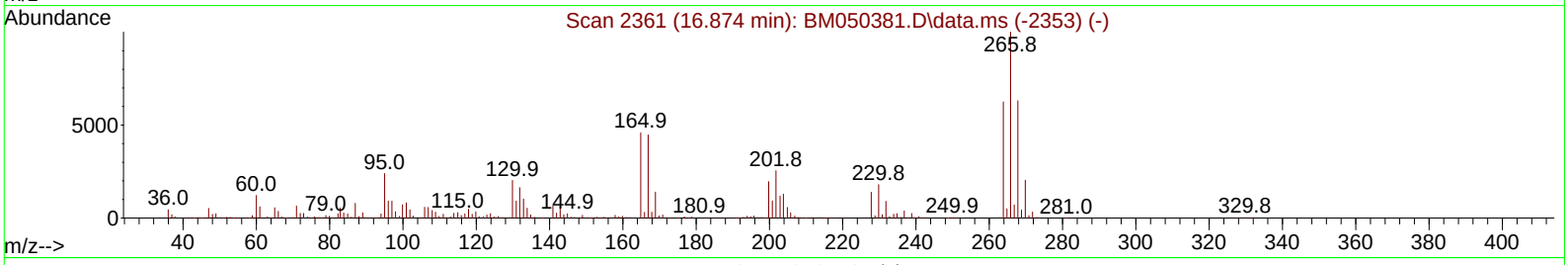
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050473.D
Acq On : 17 Jul 2025 13:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 17 16:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration







TIC: BM050473.D\data.ms

(70) Pentachlorophenol (C)

16.863min (+ 0.006) 343417.56 ng

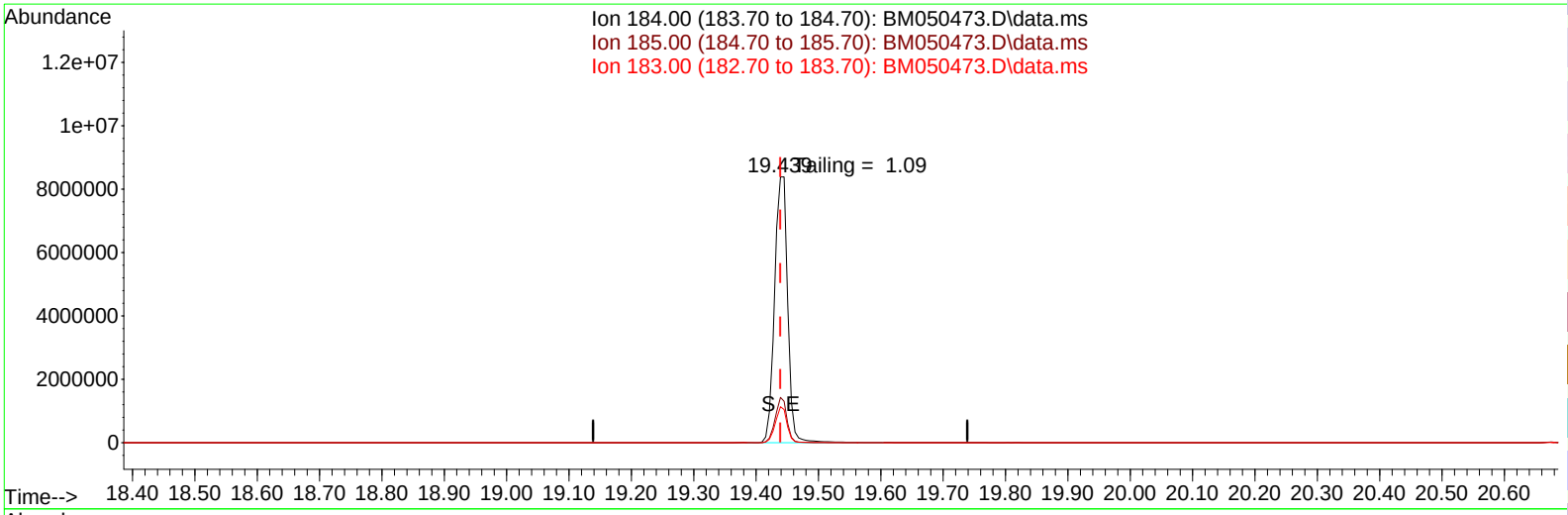
response 2320091

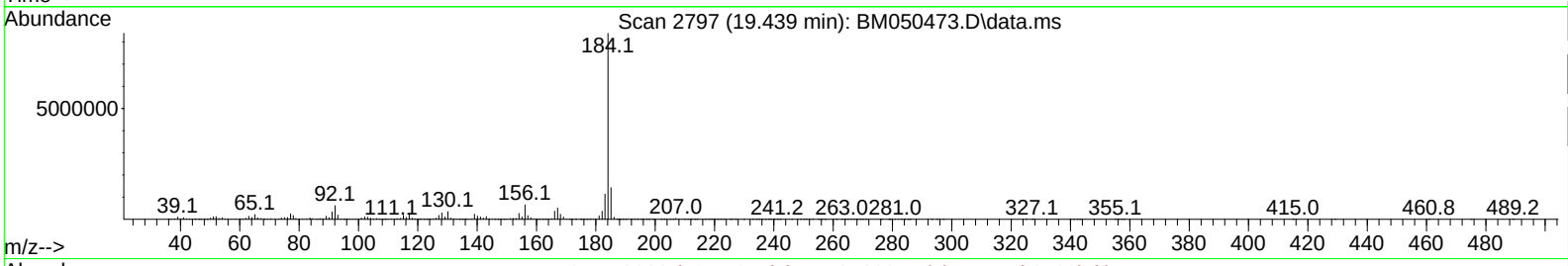
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	64.56
264.00	62.40	63.28
0.00	0.00	0.00

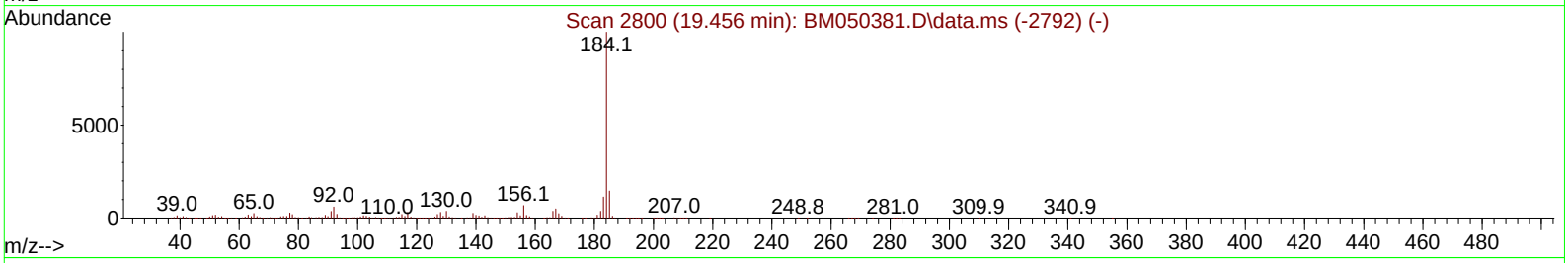
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050473.D
Acq On : 17 Jul 2025 13:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
DFTPP

Quant Time: Jul 17 16:24:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration







TIC: BM050473.D\data.ms

(77) Benzidine

19.439min (+ 0.000) 121383.09 ng

response 12309874

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.60	17.04
183.00	11.30	13.56#
0.00	0.00	0.00

Instrument :
BNA_M
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
7/17/2025	BNA_M	BM050473.D
Compound Name	**Response**	**Retention Time**
DDT	6172237	20.674
DDD	81432	20.292
DDE	4819	19.733
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
86251	6258488	1.38

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison - East River Site 2	Date Received:	
Client Sample ID:	PB168885BL	SDG No.:	Q2592
Lab Sample ID:	PB168885BL	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050475.D	1	07/16/25 10:14	07/17/25 14:57	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	5.00	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	5.00	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	133		23 - 138	89%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.7		67 - 132	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.1		52 - 132	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		44 - 137	105%	SPK: 150
1718-51-0	Terphenyl-d14	86.6		42 - 152	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	484000	7.845			
1146-65-2	Naphthalene-d8	1700000	10.639			
15067-26-2	Acenaphthene-d10	1090000	14.474			
1517-22-2	Phenanthrene-d10	2250000	17.203			
1719-03-5	Chrysene-d12	2370000	21.427			
1520-96-3	Perylene-d12	2620000	24.45			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	
Project:	Con Edison - East River Site 2			Date Received:	
Client Sample ID:	PB168885BL			SDG No.:	Q2592
Lab Sample ID:	PB168885BL			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :		Decanted :	N	Level :	LOW
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050475.D	1	07/16/25 10:14	07/17/25 14:57	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_M\Data\BM071725\
Data File : BM050475.D
Acq On : 17 Jul 2025 14:57
Operator : RC/JU
Sample : PB168885BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Quant Time: Jul 17 16:21:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

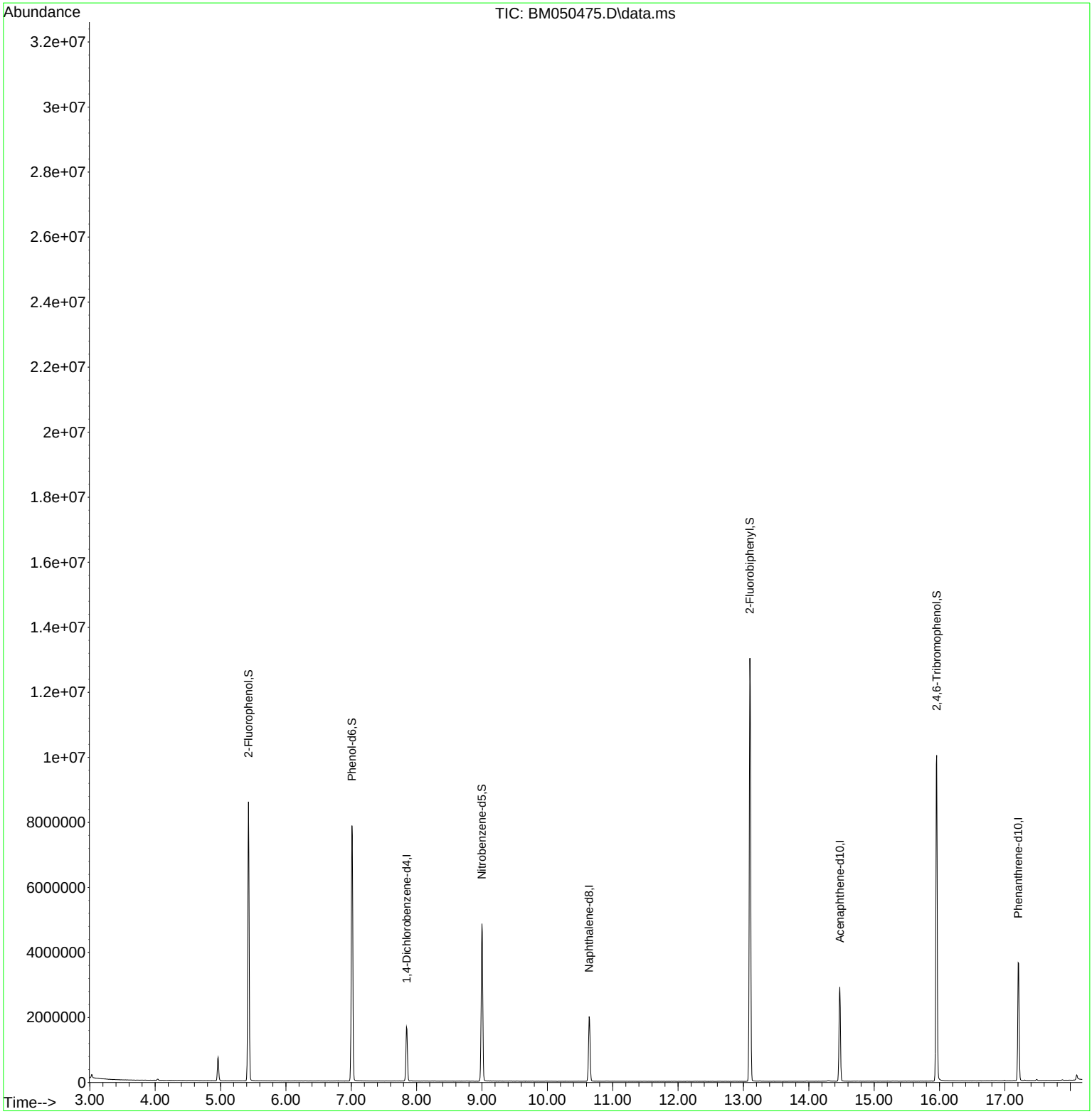
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.845	152	484190	20.000	ng	0.00
21) Naphthalene-d8	10.639	136	1695354	20.000	ng	0.00
39) Acenaphthene-d10	14.474	164	1085065	20.000	ng	0.00
64) Phenanthrene-d10	17.203	188	2246799	20.000	ng	0.00
76) Chrysene-d12	21.427	240	2374390	20.000	ng	0.00
86) Perylene-d12	24.450	264	2623122	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	3740092	132.962	ng	0.00
7) Phenol-d6	7.010	99	4572384	128.946	ng	0.00
23) Nitrobenzene-d5	8.998	82	2748609	82.714	ng	0.00
42) 2,4,6-Tribromophenol	15.957	330	2071363	157.116	ng	0.00
45) 2-Fluorobiphenyl	13.098	172	7037234	80.092	ng	0.00
79) Terphenyl-d14	19.821	244	11688353	86.612	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050475.D
Acq On : 17 Jul 2025 14:57
Operator : RC/JU
Sample : PB168885BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168885BL

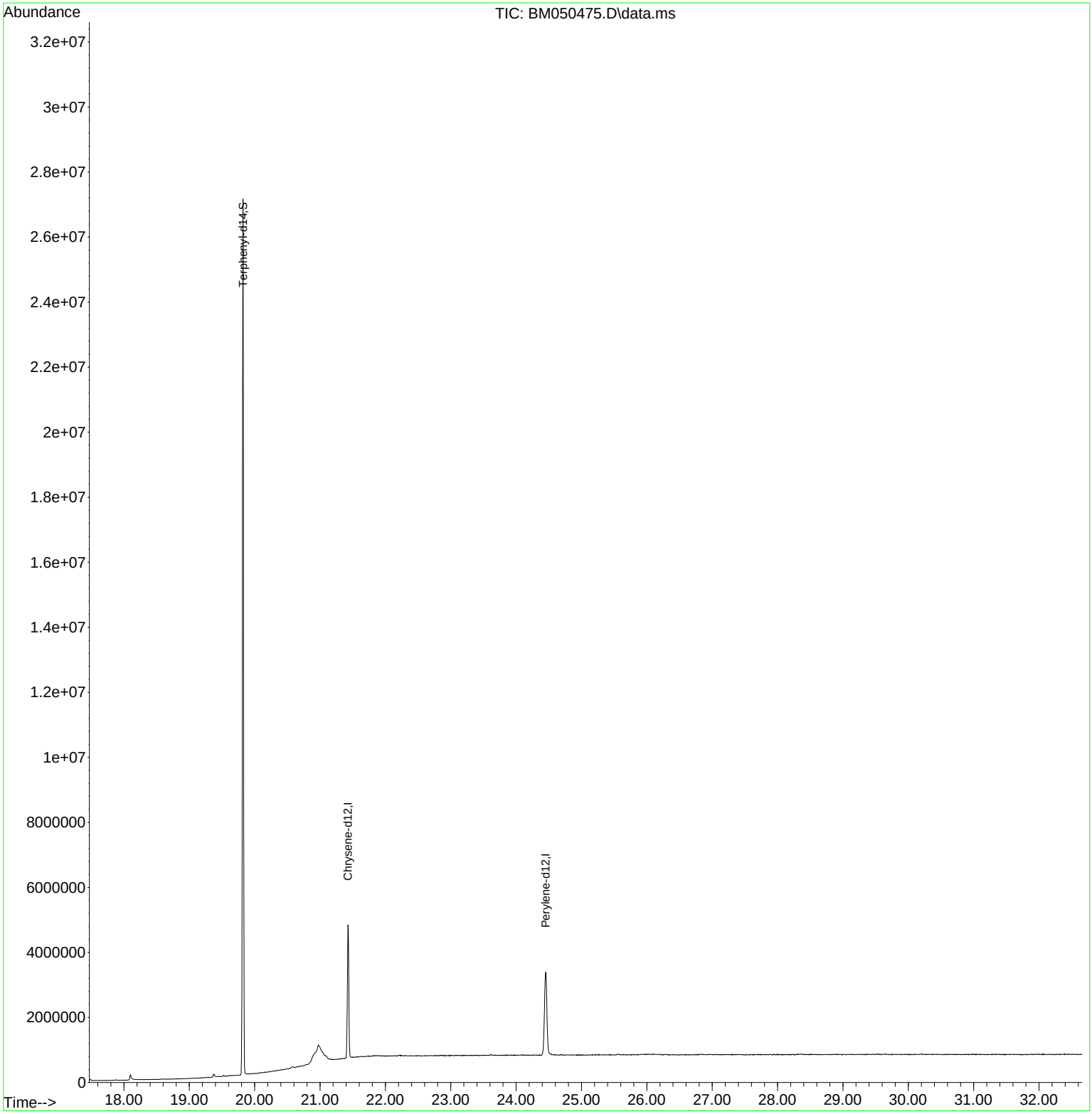
Quant Time: Jul 17 16:21:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

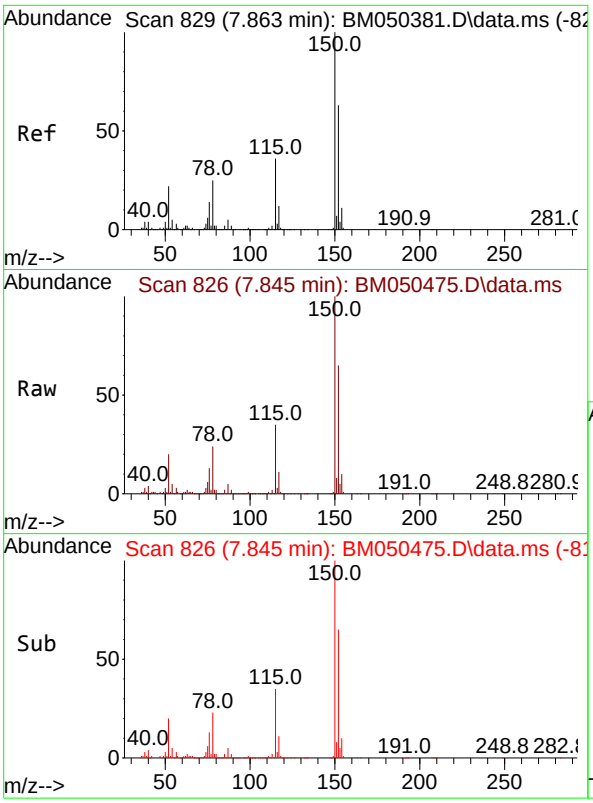


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050475.D
Acq On : 17 Jul 2025 14:57
Operator : RC/JU
Sample : PB168885BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Quant Time: Jul 17 16:21:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration



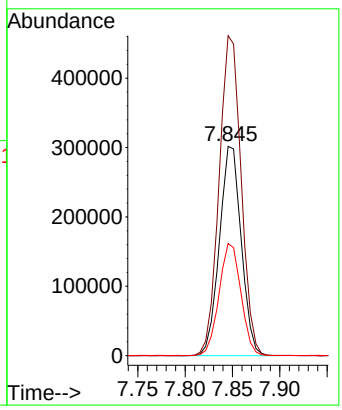


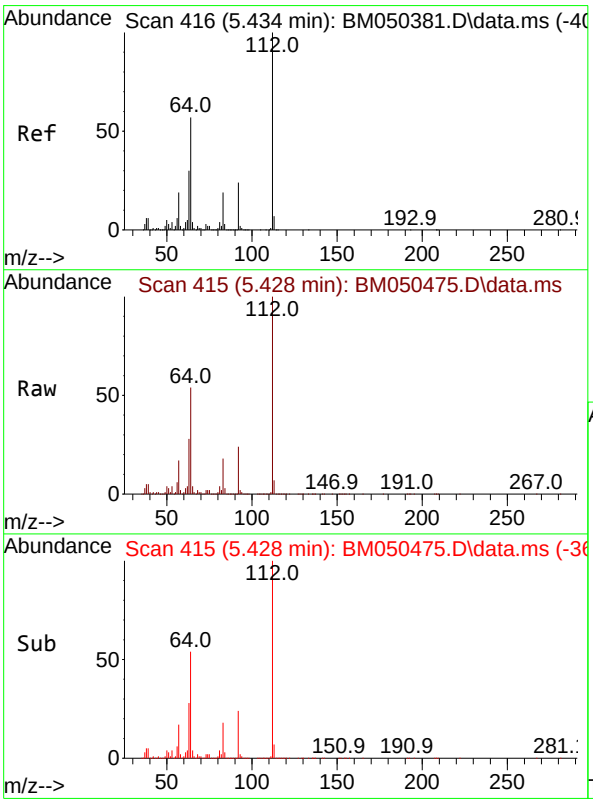
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.845 min Scan# 8
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion:152 Resp: 484190

Ion	Ratio	Lower	Upper
152	100		
150	152.9	126.2	189.4
115	53.6	45.8	68.8

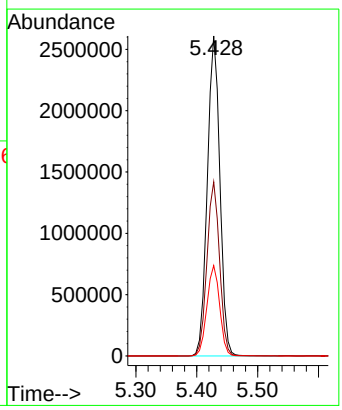


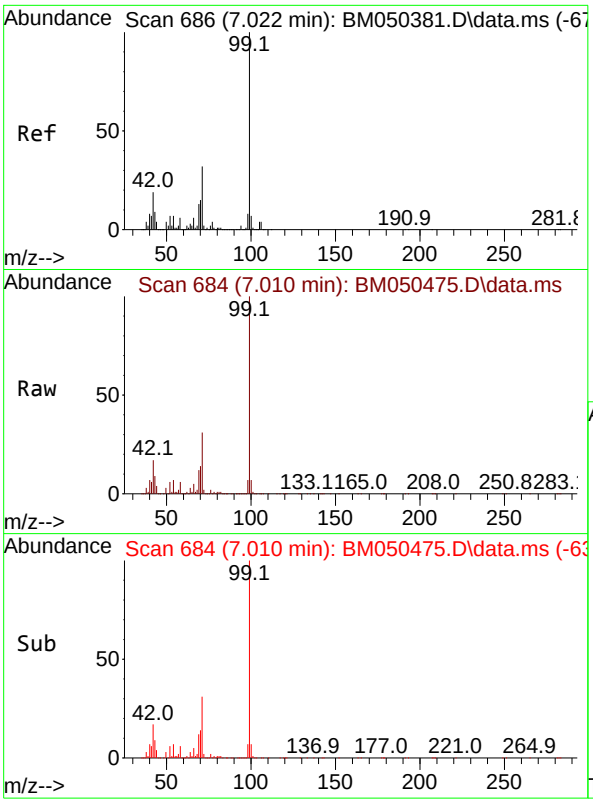


#5
2-Fluorophenol
Concen: 132.962 ng
RT: 5.428 min Scan# 415
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:112 Resp: 3740092

Ion	Ratio	Lower	Upper
112	100		
64	54.4	45.5	68.3
63	28.2	24.2	36.4



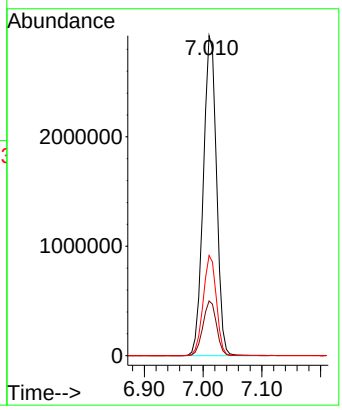


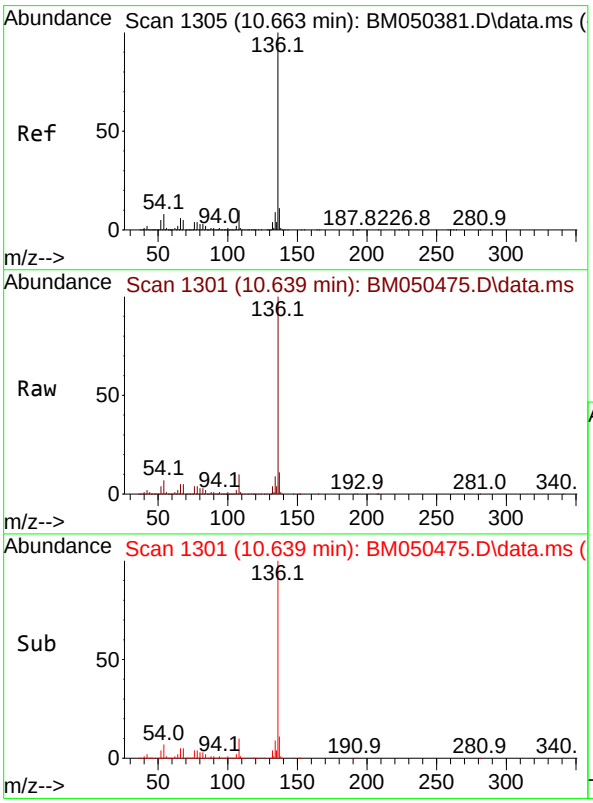
#7
Phenol-d6
Concen: 128.946 ng
RT: 7.010 min Scan# 6
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion: 99 Resp: 4572384

Ion	Ratio	Lower	Upper
99	100		
42	17.1	15.0	22.6
71	31.3	25.9	38.9

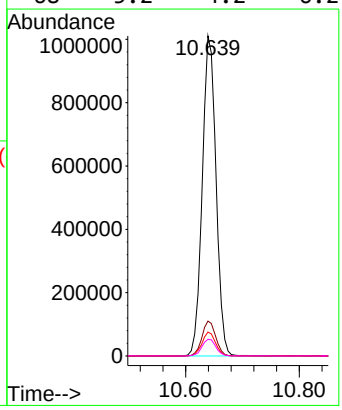


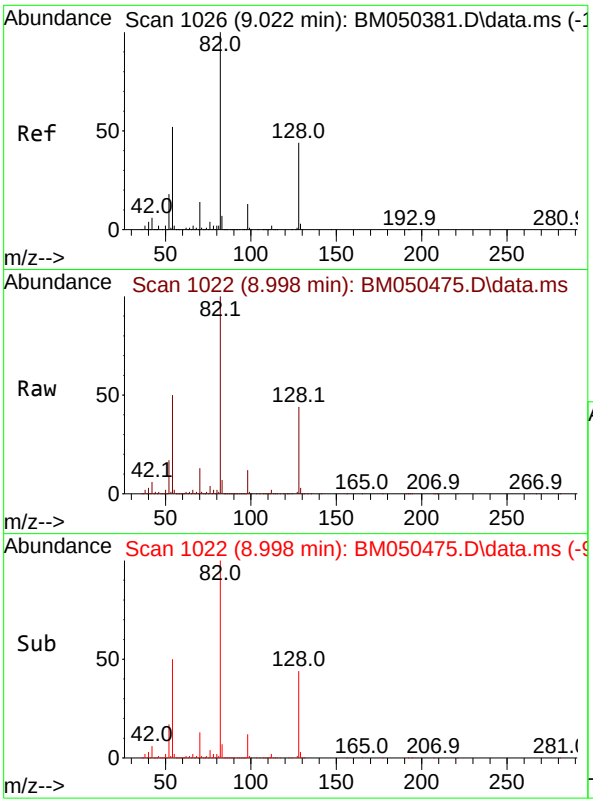


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.639 min Scan# 1301
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:136 Resp: 1695354

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.5	6.3	9.5
68	5.2	4.2	6.2



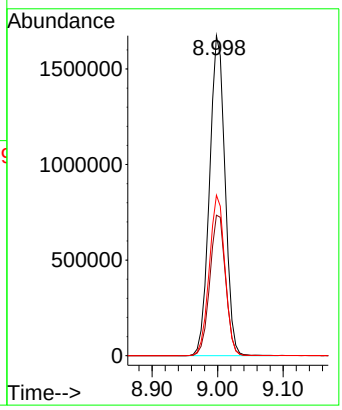


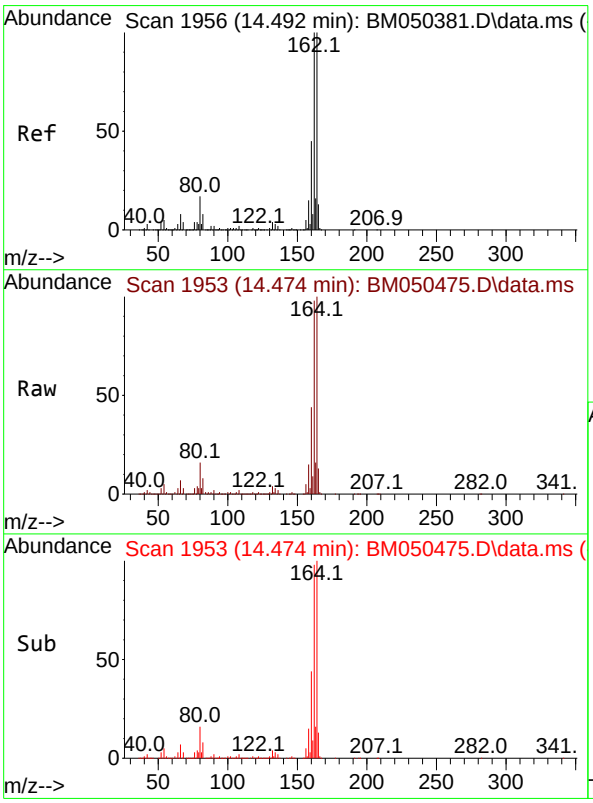
#23
Nitrobenzene-d5
Concen: 82.714 ng
RT: 8.998 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion: 82 Resp: 2748609

Ion	Ratio	Lower	Upper
82	100		
128	43.9	35.2	52.8
54	50.2	41.5	62.3

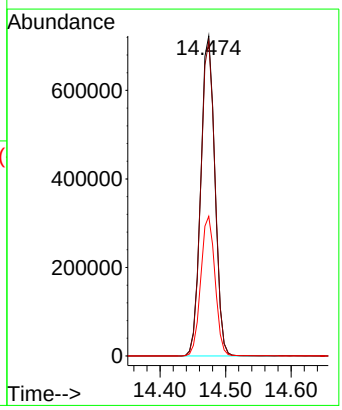


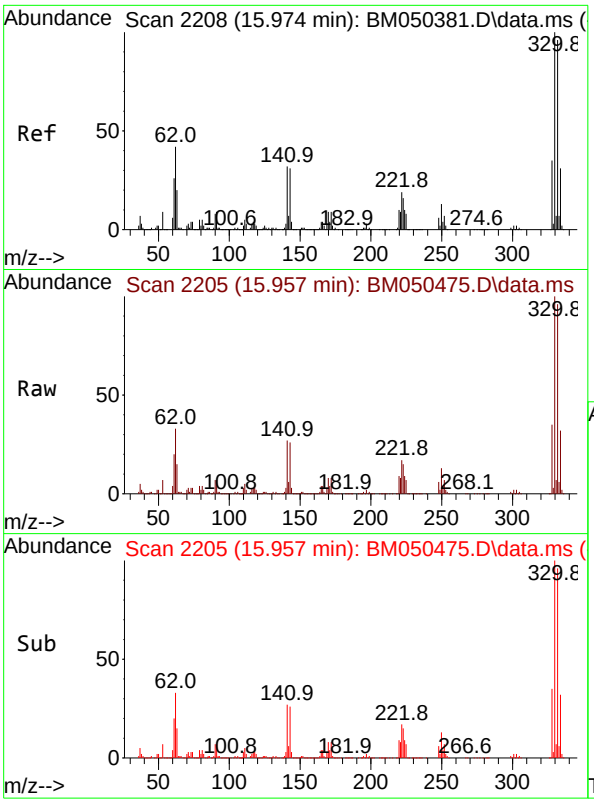


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.474 min Scan# 1953
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:164 Resp: 1085065

Ion	Ratio	Lower	Upper
164	100		
162	98.3	79.9	119.9
160	43.7	36.2	54.4



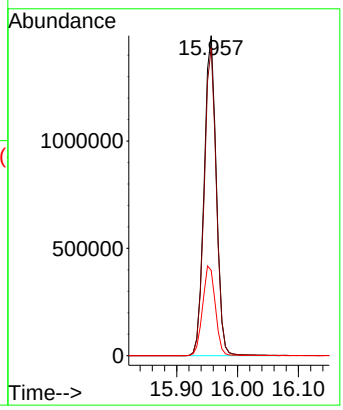


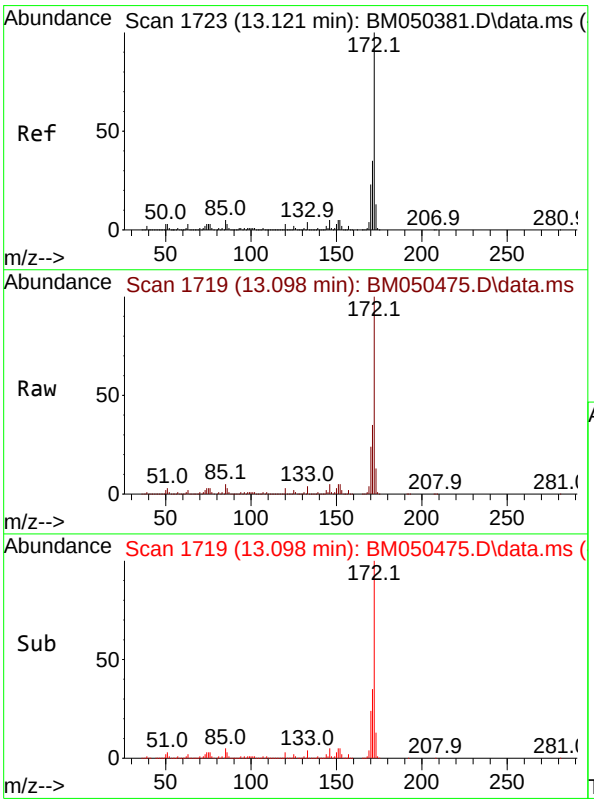
#42
2,4,6-Tribromophenol
Concen: 157.116 ng
RT: 15.957 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion:330 Resp: 2071363

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.9	115.3
141	29.4	27.4	41.0

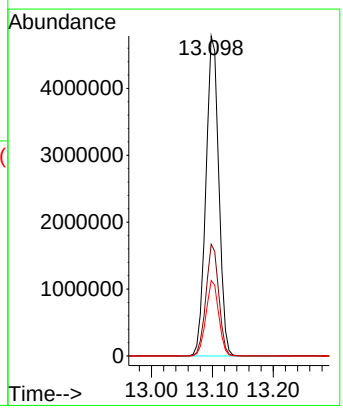


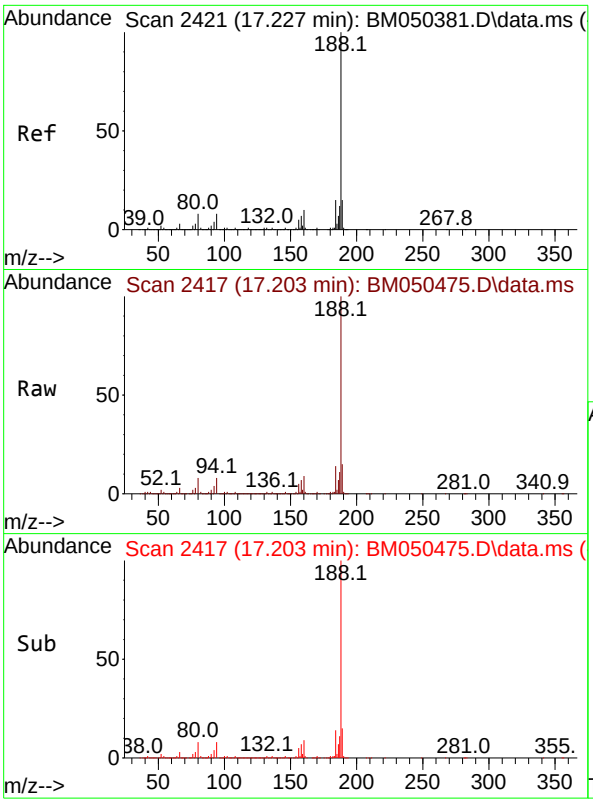


#45
2-Fluorobiphenyl
Concen: 80.092 ng
RT: 13.098 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:172 Resp: 7037234

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.7	41.5
170	23.6	18.8	28.2



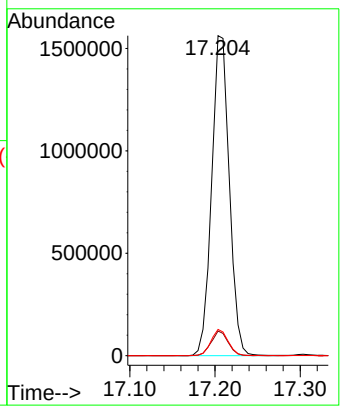


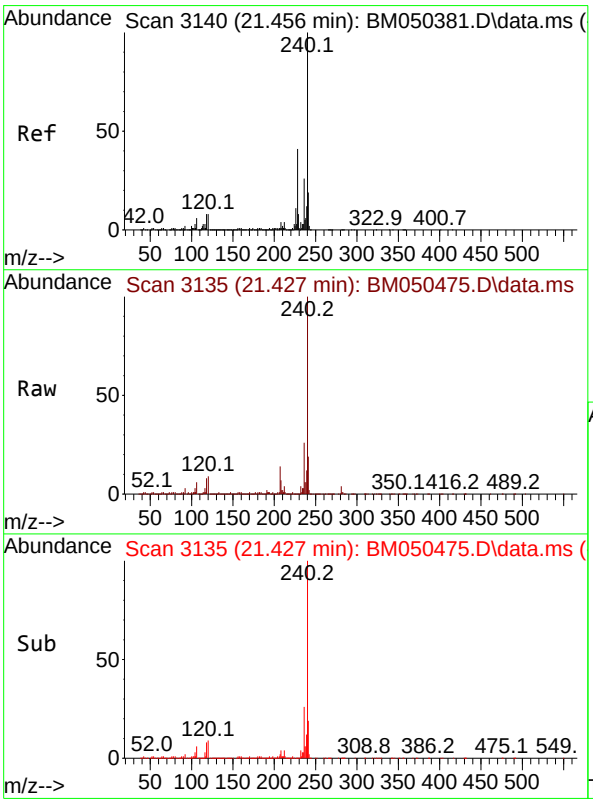
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.203 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion:188 Resp: 2246799

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.0	9.0
80	8.2	6.5	9.7

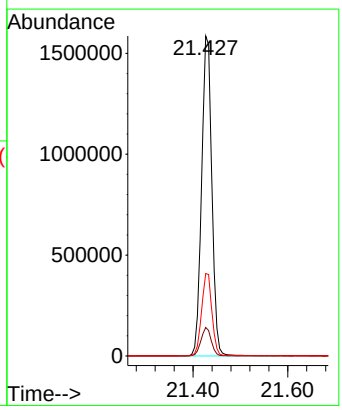


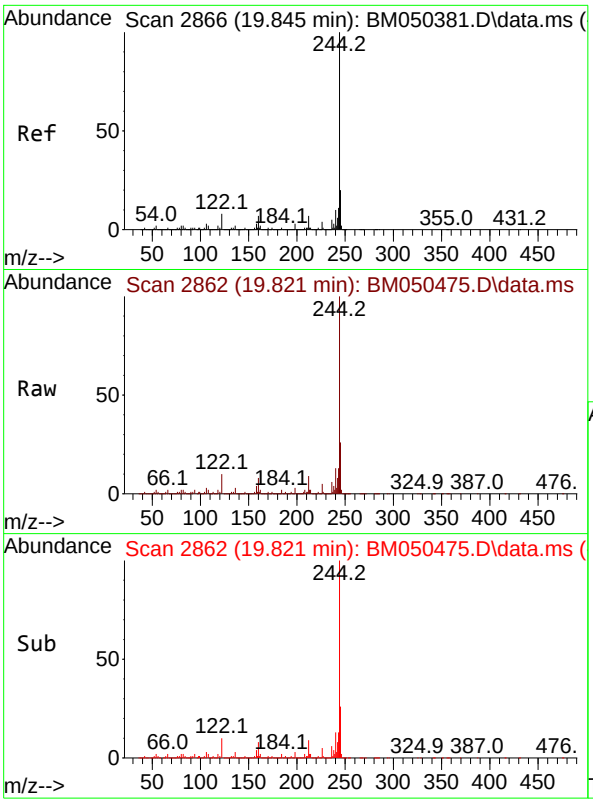


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.427 min Scan# 3135
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:240 Resp: 2374390

Ion	Ratio	Lower	Upper
240	100		
120	8.9	6.7	10.1
236	25.7	20.7	31.1



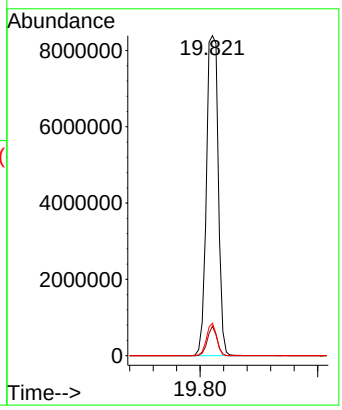


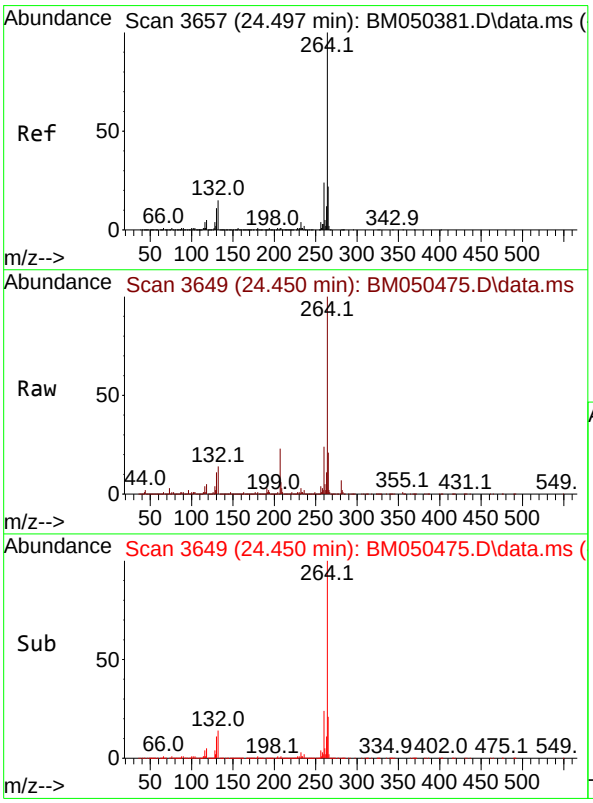
#79
Terphenyl-d14
Concen: 86.612 ng
RT: 19.821 min Scan# 2
Delta R.T. -0.000 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Instrument :
BNA_M
ClientSampleId :
PB168885BL

Tgt Ion:244 Resp:11688353

Ion	Ratio	Lower	Upper
244	100		
212	9.2	5.7	8.5#
122	10.2	6.2	9.2#

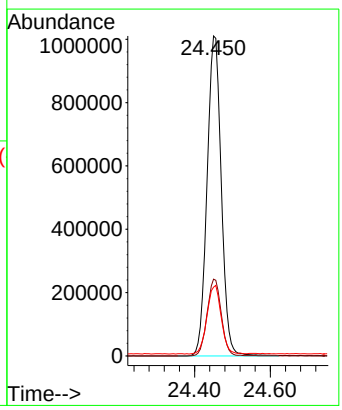




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.450 min Scan# 3649
Delta R.T. -0.006 min
Lab File: BM050475.D
Acq: 17 Jul 2025 14:57

Tgt Ion:264 Resp: 2623122

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	21.5	17.8	26.6



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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison - East River Site 2	Date Received:	
Client Sample ID:	PB168885BS	SDG No.:	Q2592
Lab Sample ID:	PB168885BS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050476.D	1	07/16/25 10:14	07/17/25 15:57	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	39.1		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	43.0		0.53	5.00	ug/L
95-48-7	2-Methylphenol	47.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.8		1.10	10.0	ug/L
67-72-1	Hexachloroethane	43.1		0.65	5.00	ug/L
98-95-3	Nitrobenzene	44.3		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.8		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	51.7		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.2		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	47.8		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		23 - 138	86%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	76.8		67 - 132	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.5		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		44 - 137	100%	SPK: 150
1718-51-0	Terphenyl-d14	76.8		42 - 152	77%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	516000	7.846			
1146-65-2	Naphthalene-d8	1950000	10.64			
15067-26-2	Acenaphthene-d10	1310000	14.475			
1517-22-2	Phenanthrene-d10	2580000	17.21			
1719-03-5	Chrysene-d12	2740000	21.433			
1520-96-3	Perylene-d12	2910000	24.462			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	
Project:	Con Edison - East River Site 2			Date Received:	
Client Sample ID:	PB168885BS			SDG No.:	Q2592
Lab Sample ID:	PB168885BS			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050476.D	1	07/16/25 10:14	07/17/25 15:57	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_M\Data\BM071725\
Data File : BM050476.D
Acq On : 17 Jul 2025 15:57
Operator : RC/JU
Sample : PB168885BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 16:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.846	152	516385	20.000	ng	0.00
21) Naphthalene-d8	10.640	136	1948201	20.000	ng	0.00
39) Acenaphthene-d10	14.475	164	1313335	20.000	ng	0.00
64) Phenanthrene-d10	17.210	188	2583210	20.000	ng	0.00
76) Chrysene-d12	21.433	240	2737581	20.000	ng	0.00
86) Perylene-d12	24.462	264	2912638	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	3884146	129.474	ng	0.00
7) Phenol-d6	7.016	99	4920980	130.124	ng	0.00
23) Nitrobenzene-d5	8.999	82	2933678	76.825	ng	0.00
42) 2,4,6-Tribromophenol	15.957	330	2389558	149.748	ng	0.00
45) 2-Fluorobiphenyl	13.104	172	7818506	73.518	ng	0.00
79) Terphenyl-d14	19.821	244	11945436	76.774	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.323	88	454197	36.819	ng	99
3) Pyridine	3.723	79	1265501	39.076	ng	96
4) n-Nitrosodimethylamine	3.623	42	621168	41.142	ng	94
6) Aniline	7.169	93	1735247	35.754	ng	99
8) 2-Chlorophenol	7.411	128	1529899	48.364	ng	97
9) Benzaldehyde	6.981	77	881142	39.168	ng	98
10) Phenol	7.040	94	1875951	47.560	ng	98
11) bis(2-Chloroethyl)ether	7.269	93	1376341	43.571	ng	98
12) 1,3-Dichlorobenzene	7.740	146	1664239	43.267	ng	98
13) 1,4-Dichlorobenzene	7.881	146	1688340	42.987	ng	99
14) 1,2-Dichlorobenzene	8.199	146	1629704	43.341	ng	99
15) Benzyl Alcohol	8.081	79	1243011	46.649	ng	97
16) 2,2'-oxybis(1-Chloropr...	8.375	45	1935814	41.604	ng	98
17) 2-Methylphenol	8.287	107	1212327	47.389	ng	98
18) Hexachloroethane	8.928	117	595451	43.108	ng	98
19) n-Nitroso-di-n-propyla...	8.652	70	1038896	45.347	ng	95
20) 3+4-Methylphenols	8.610	107	1642016	47.812	ng	98
22) Acetophenone	8.663	105	2120698	43.537	ng	98
24) Nitrobenzene	9.046	77	1509739	44.305	ng	97
25) Isophorone	9.575	82	2814614	45.423	ng	99
26) 2-Nitrophenol	9.752	139	783921	56.446	ng	96
27) 2,4-Dimethylphenol	9.816	122	1430792	48.416	ng	96
28) bis(2-Chloroethoxy)met...	10.052	93	1838156	44.768	ng	99
29) 2,4-Dichlorophenol	10.287	162	1541348	50.768	ng	98
30) 1,2,4-Trichlorobenzene	10.504	180	1645152	45.296	ng	99
31) Naphthalene	10.693	128	4347399	43.933	ng	99
32) Benzoic acid	9.946	122	1030936	55.734	ng	98
33) 4-Chloroaniline	10.793	127	1069433	25.564	ng	99
34) Hexachlorobutadiene	10.987	225	993212	44.805	ng	98
35) Caprolactam	11.575	113	440167m	53.108	ng	
36) 4-Chloro-3-methylphenol	11.922	107	1449850	51.138	ng	97
37) 2-Methylnaphthalene	12.298	142	2906964	46.526	ng	98
38) 1-Methylnaphthalene	12.522	142	3047148	46.083	ng	100
40) 1,2,4,5-Tetrachloroben...	12.669	216	1909685	45.724	ng	100
41) Hexachlorocyclopentadiene	12.657	237	2610418	97.780	ng	99
43) 2,4,6-Trichlorophenol	12.910	196	1309524	50.938	ng	99

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050476.D
Acq On : 17 Jul 2025 15:57
Operator : RC/JU
Sample : PB168885BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 16:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.981	196	1450386	51.658	ng		96
46) 1,1'-Biphenyl	13.310	154	4317725	44.311	ng		99
47) 2-Chloronaphthalene	13.351	162	3405944	43.840	ng		99
48) 2-Nitroaniline	13.545	65	887681	51.189	ng		95
49) Acenaphthylene	14.198	152	5316054	45.277	ng		99
50) Dimethylphthalate	13.934	163	4214908	46.615	ng		100
51) 2,6-Dinitrotoluene	14.045	165	898217	51.738	ng		93
52) Acenaphthene	14.539	154	3220488	43.143	ng		99
53) 3-Nitroaniline	14.369	138	652608	35.347	ng		98
54) 2,4-Dinitrophenol	14.575	184	1152712	117.097	ng	#	82
55) Dibenzofuran	14.875	168	5125414	44.563	ng		99
56) 4-Nitrophenol	14.681	139	1695556	106.789	ng		90
57) 2,4-Dinitrotoluene	14.828	165	1281292	49.227	ng		95
58) Fluorene	15.522	166	4307700	45.471	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.098	232	1239852	52.459	ng		96
60) Diethylphthalate	15.292	149	4040195	46.776	ng		100
61) 4-Chlorophenyl-phenyle...	15.516	204	2278500	45.997	ng		97
62) 4-Nitroaniline	15.528	138	963365	45.527	ng		98
63) Azobenzene	15.804	77	3527371	44.475	ng		99
65) 4,6-Dinitro-2-methylph...	15.586	198	751112	53.277	ng		92
66) n-Nitrosodiphenylamine	15.728	169	3739335	46.260	ng		100
67) 4-Bromophenyl-phenylether	16.404	248	1362817	47.884	ng		98
68) Hexachlorobenzene	16.522	284	1607982	47.836	ng		96
69) Atrazine	16.675	200	1344545	50.656	ng		99
70) Pentachlorophenol	16.863	266	2322182	110.974	ng		99
71) Phenanthrene	17.251	178	6673853	45.657	ng		100
72) Anthracene	17.339	178	6792935	46.687	ng		100
73) Carbazole	17.604	167	6198421	47.082	ng		99
74) Di-n-butylphthalate	18.175	149	7010527	48.651	ng		99
75) Fluoranthene	19.257	202	7831040	49.281	ng		99
77) Benzidine	19.439	184	4729264	67.729	ng		100
78) Pyrene	19.622	202	8190535	46.715	ng		100
80) Butylbenzylphthalate	20.516	149	3188686	55.157	ng		97
81) Benzo(a)anthracene	21.416	228	8453985	47.395	ng		99
82) 3,3'-Dichlorobenzidine	21.339	252	2023008	33.631	ng		99
83) Chrysene	21.480	228	7878393	46.827	ng		100
84) Bis(2-ethylhexyl)phtha...	21.345	149	4719847	51.429	ng		97
85) Di-n-octyl phthalate	22.486	149	8099632	56.350	ng		97
87) Indeno(1,2,3-cd)pyrene	27.886	276	10292650	49.702	ng		99
88) Benzo(b)fluoranthene	23.504	252	8457217	47.206	ng		99
89) Benzo(k)fluoranthene	23.568	252	8421352	45.301	ng		100
90) Benzo(a)pyrene	24.321	252	8126766	48.457	ng		99
91) Dibenzo(a,h)anthracene	27.944	278	8579014	49.191	ng		99
92) Benzo(g,h,i)perylene	28.950	276	8216926	49.851	ng		98

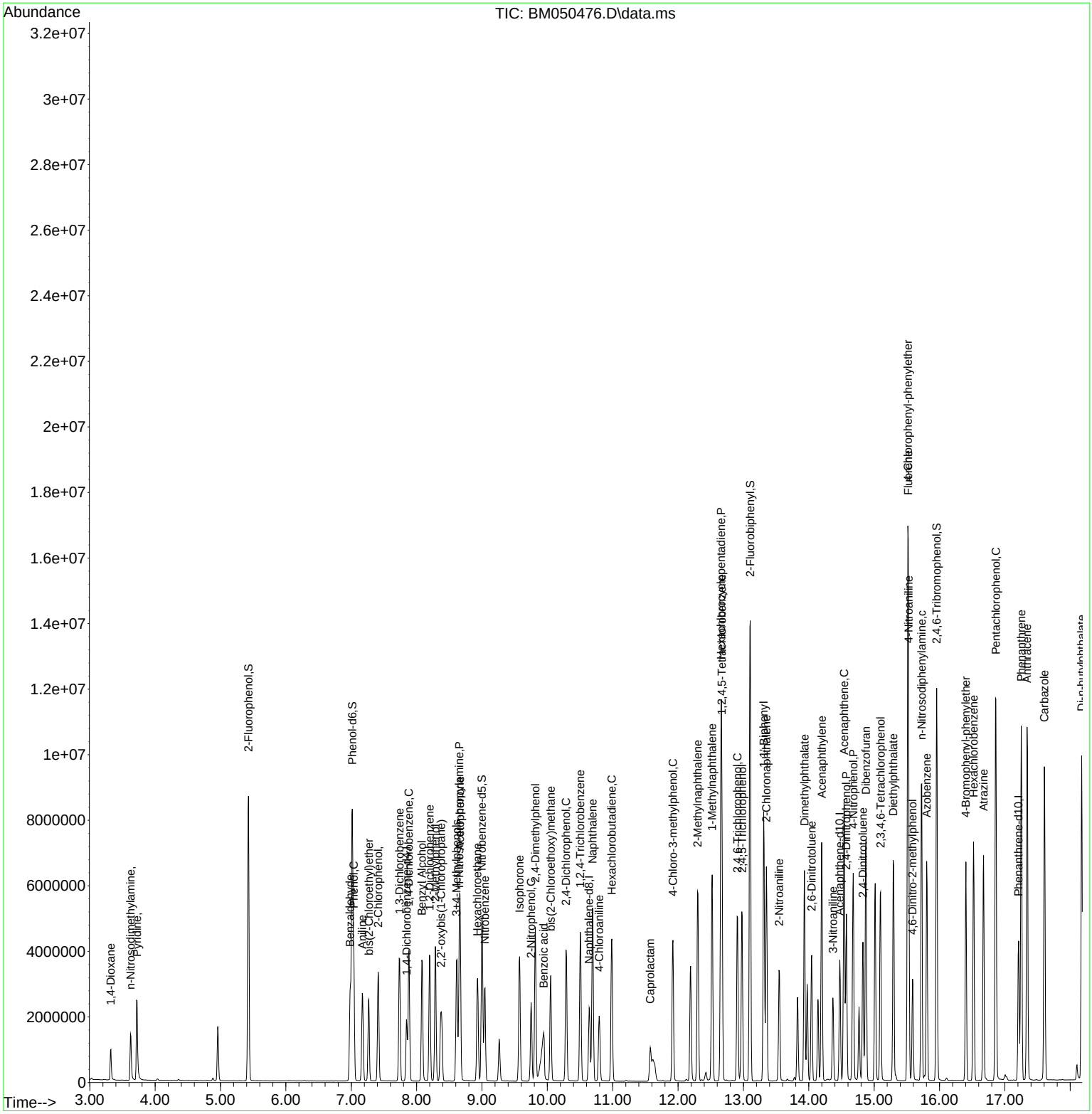
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050476.D
Acq On : 17 Jul 2025 15:57
Operator : RC/JU
Sample : PB168885BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 16:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

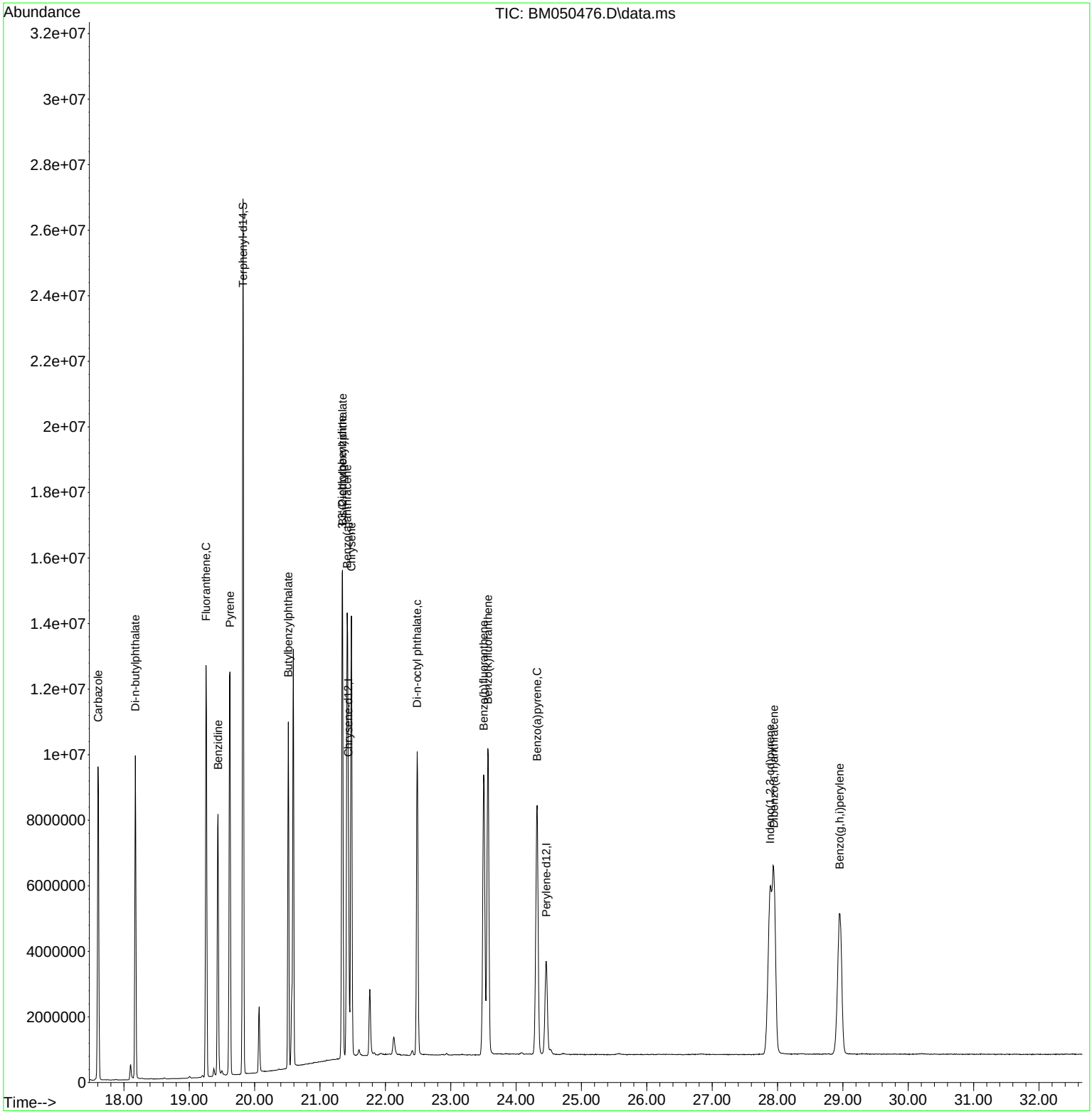


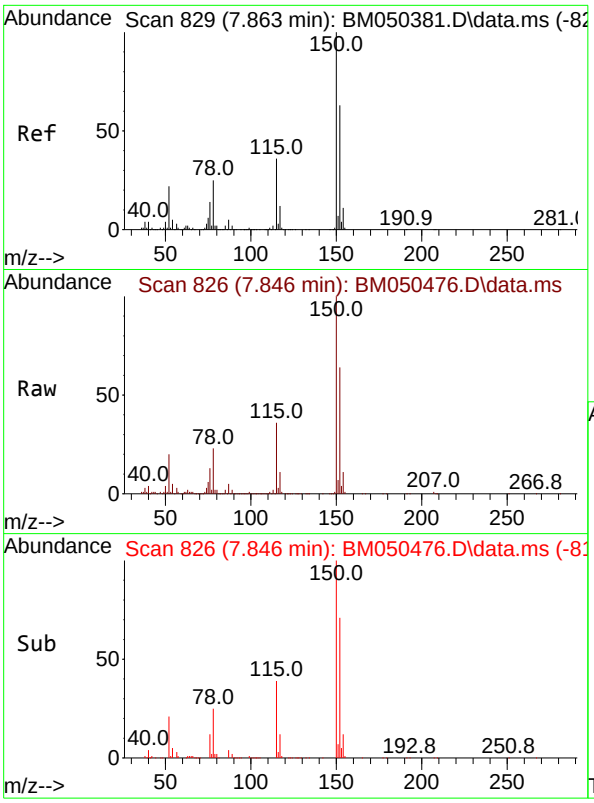
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM071725\
Data File : BM050476.D
Acq On : 17 Jul 2025 15:57
Operator : RC/JU
Sample : PB168885BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 17 16:34:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM070925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jul 17 16:20:15 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

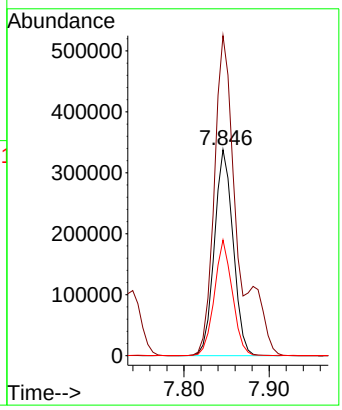




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.846 min Scan# 8
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:152 Resp: 51638

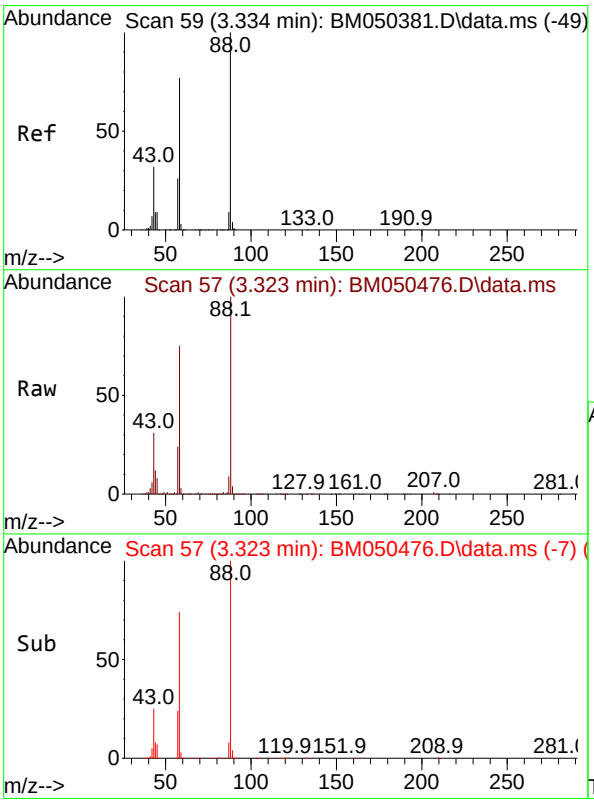
Ion	Ratio	Lower	Upper
152	100		
150	155.4	126.2	189.4
115	56.2	45.8	68.8



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

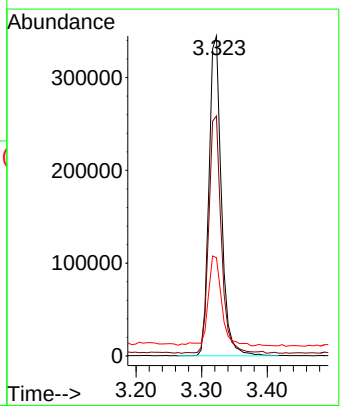
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

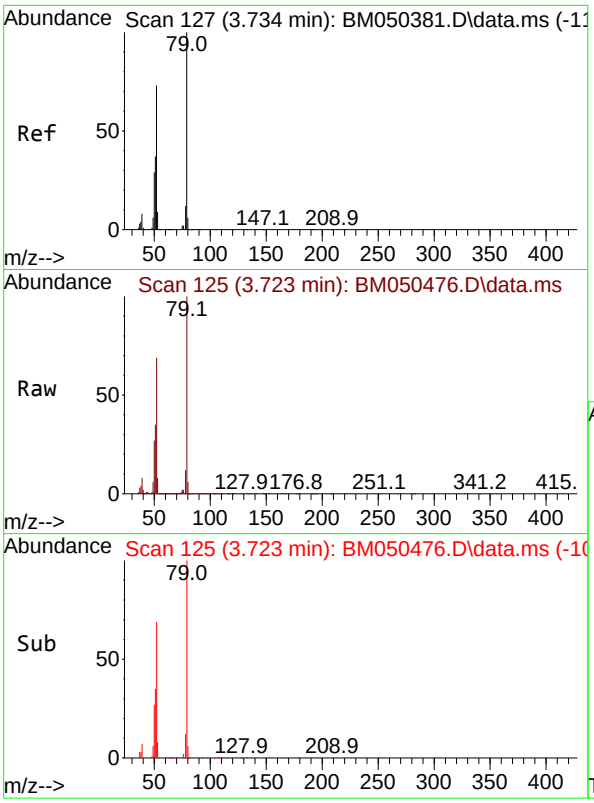


#2
1,4-Dioxane
Concen: 36.819 ng
RT: 3.323 min Scan# 57
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 88 Resp: 454197

Ion	Ratio	Lower	Upper
88	100		
58	75.3	61.0	91.6
43	30.0	24.6	37.0

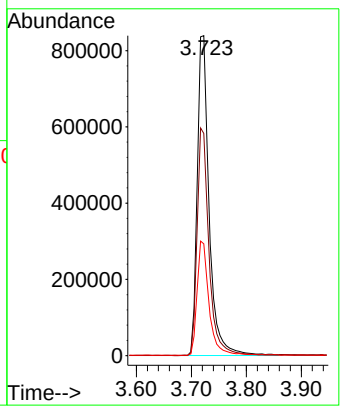




#3
Pyridine
Concen: 39.076 ng
RT: 3.723 min Scan# 1
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

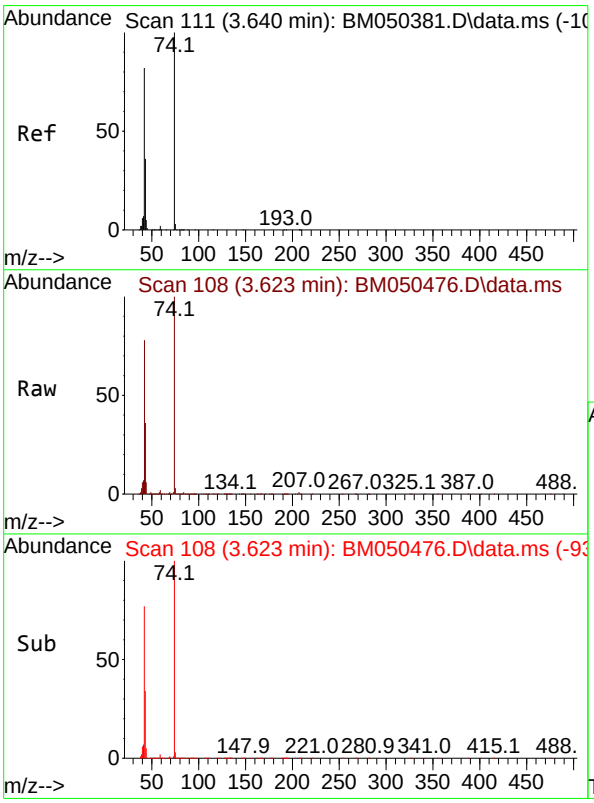
Tgt Ion: 79 Resp: 126550

Ion	Ratio	Lower	Upper
79	100		
52	69.5	58.3	87.5
51	35.0	29.6	44.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

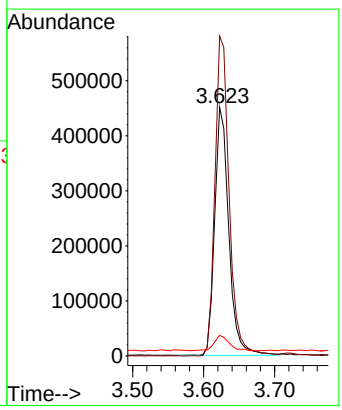
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

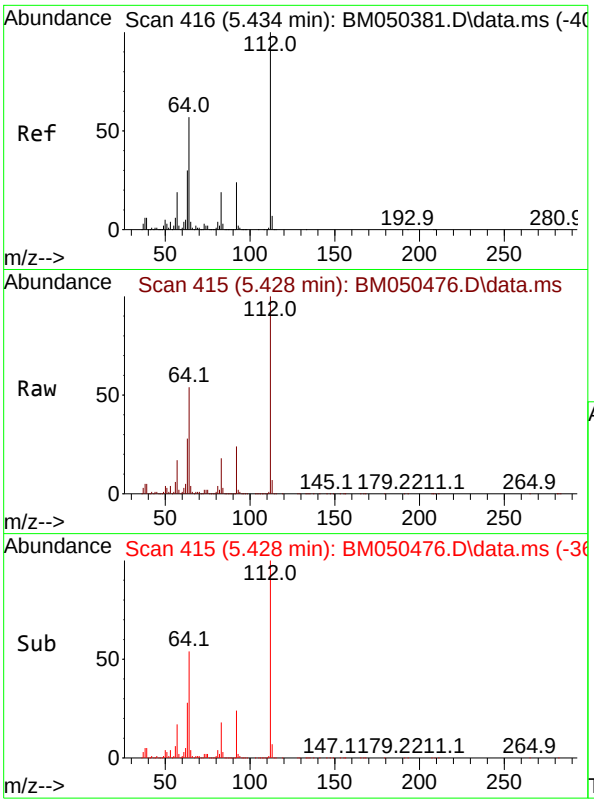


#4
n-Nitrosodimethylamine
Concen: 41.142 ng
RT: 3.623 min Scan# 108
Delta R.T. -0.011 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 42 Resp: 621168

Ion	Ratio	Lower	Upper
42	100		
74	128.7	97.5	146.3
44	8.3	5.7	8.5

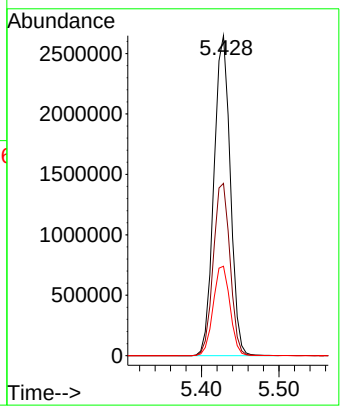




#5
2-Fluorophenol
Concen: 129.474 ng
RT: 5.428 min Scan# 41
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:112 Resp: 388414

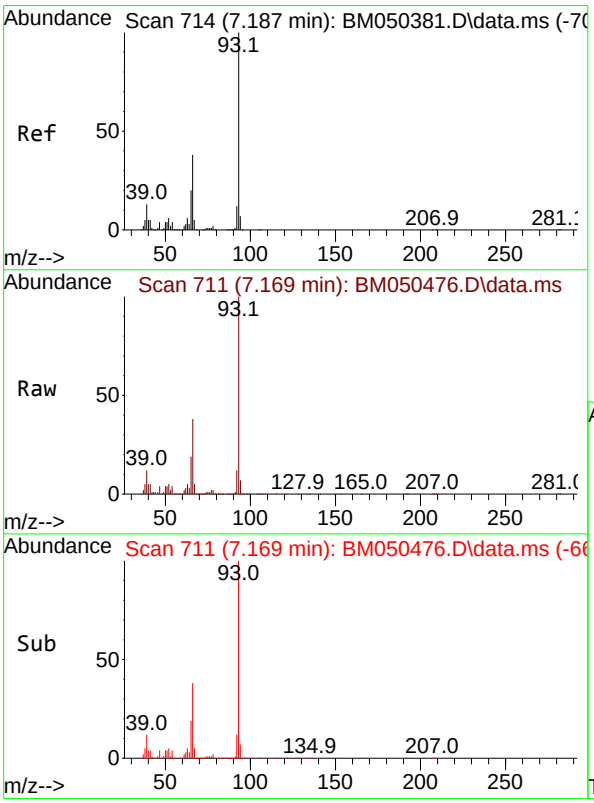
Ion	Ratio	Lower	Upper
112	100		
64	53.8	45.5	68.3
63	28.0	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

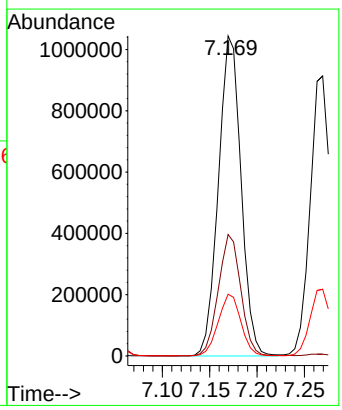
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

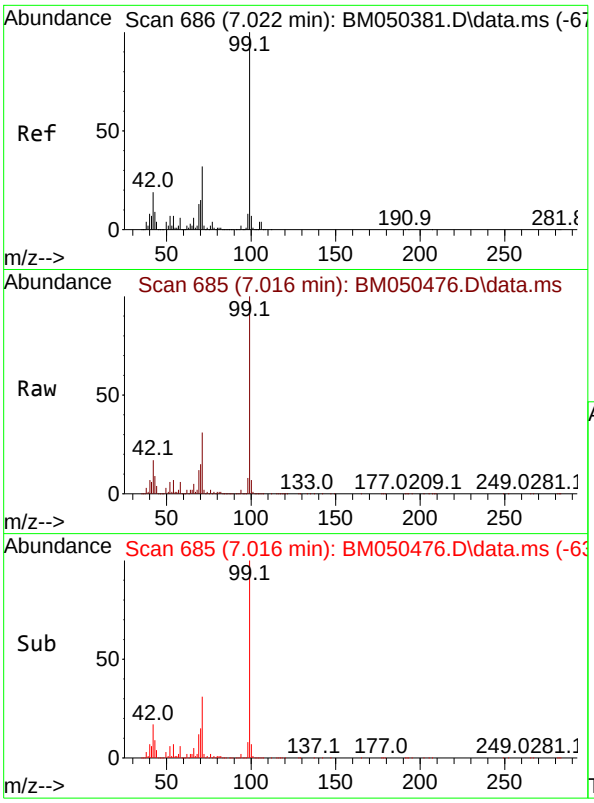


#6
Aniline
Concen: 35.754 ng
RT: 7.169 min Scan# 711
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 93 Resp: 1735247

Ion	Ratio	Lower	Upper
93	100		
66	37.9	30.5	45.7
65	19.3	15.9	23.9

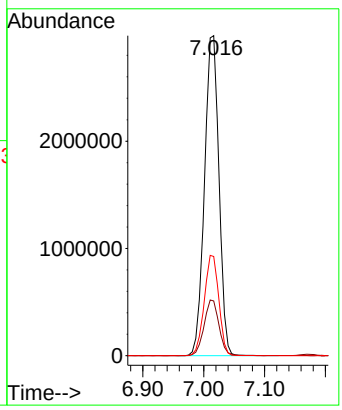




#7
Phenol-d6
Concen: 130.124 ng
RT: 7.016 min Scan# 6
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 99 Resp: 492098

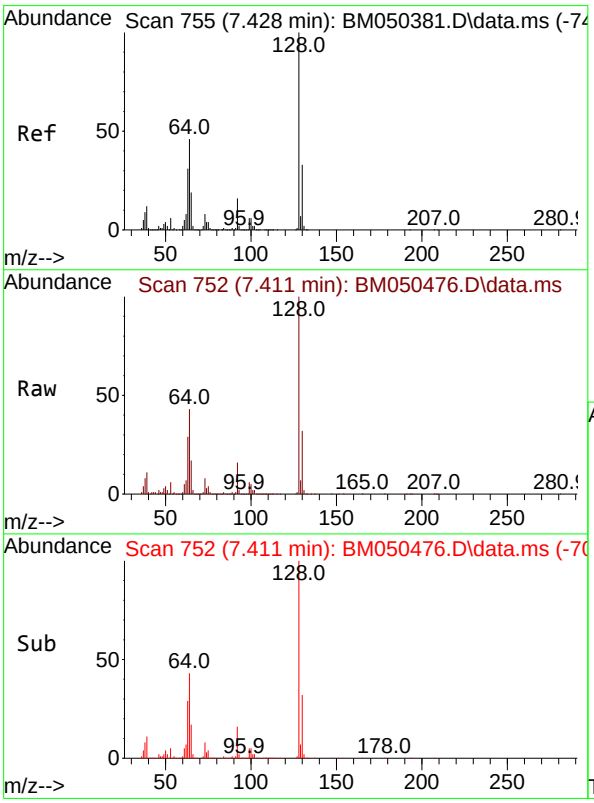
Ion	Ratio	Lower	Upper
99	100		
42	17.1	15.0	22.6
71	31.0	25.9	38.9



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED

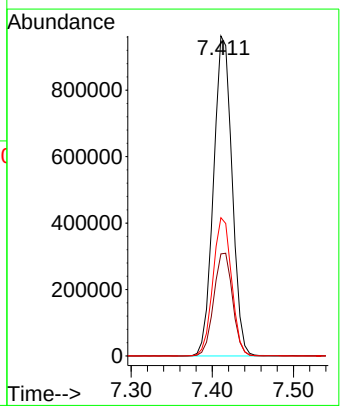
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

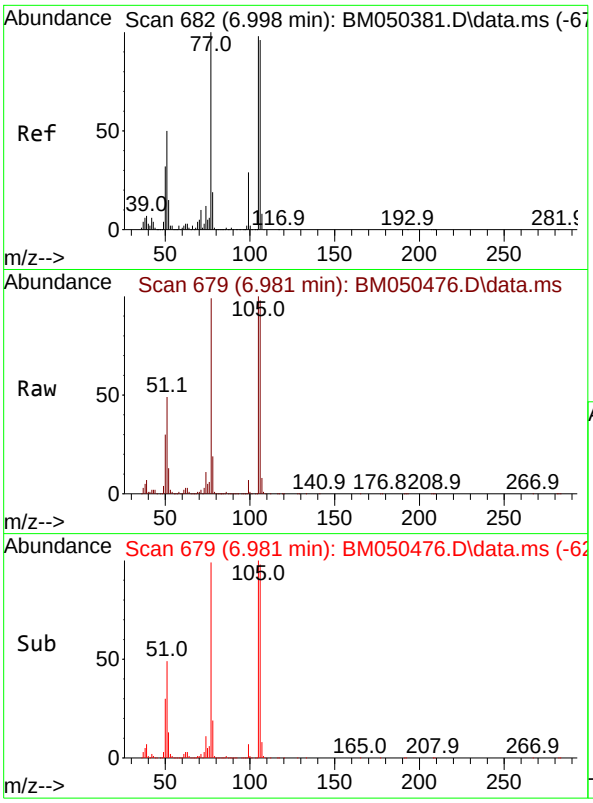


#8
2-Chlorophenol
Concen: 48.364 ng
RT: 7.411 min Scan# 752
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:128 Resp: 1529899

Ion	Ratio	Lower	Upper
128	100		
130	31.9	13.3	53.3
64	43.2	25.6	65.6

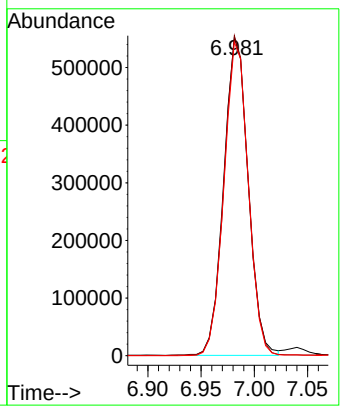




#9
Benzaldehyde
Concen: 39.168 ng
RT: 6.981 min Scan# 6
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 77 Resp: 88114

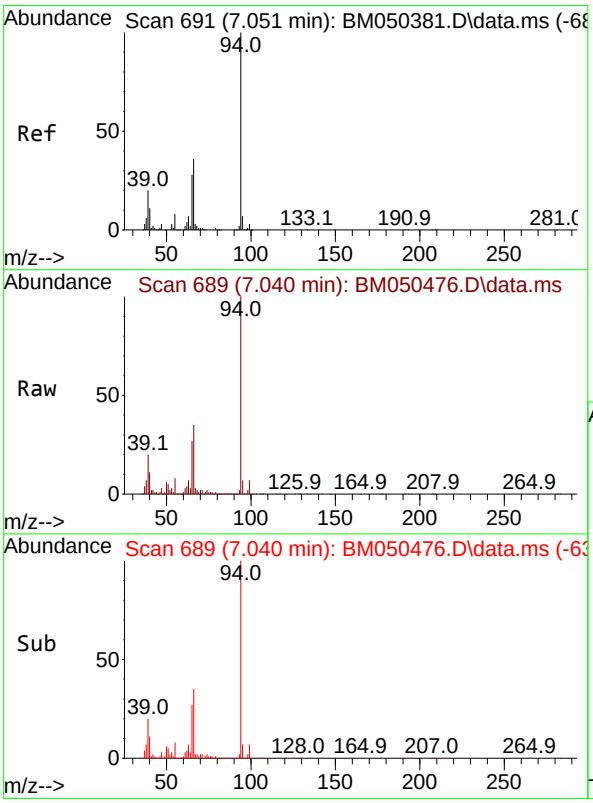
Ion	Ratio	Lower	Upper
77	100		
105	100.6	78.4	118.4
106	98.6	76.3	116.3



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

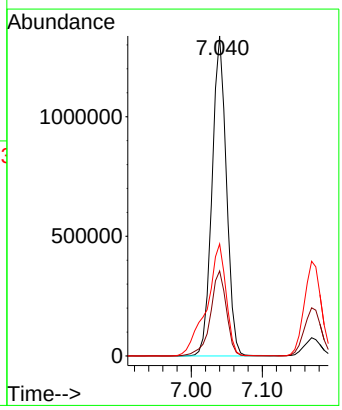
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

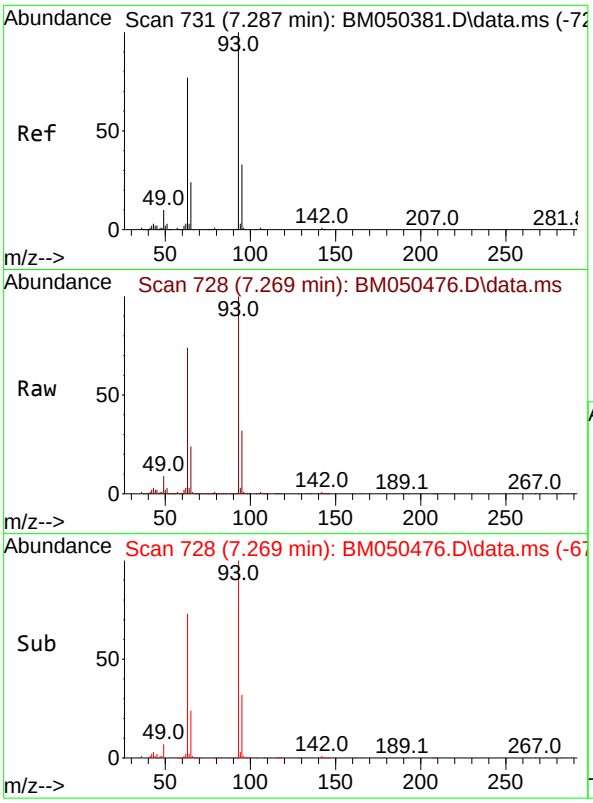


#10
Phenol
Concen: 47.560 ng
RT: 7.040 min Scan# 689
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 94 Resp: 1875951

Ion	Ratio	Lower	Upper
94	100		
65	26.6	8.1	48.1
66	35.0	15.8	55.8

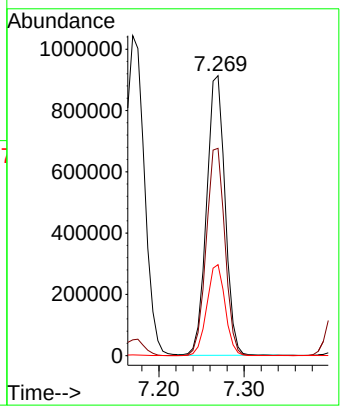




#11
bis(2-Chloroethyl)ether
Concen: 43.571 ng
RT: 7.269 min Scan# 7
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 93 Resp: 137634

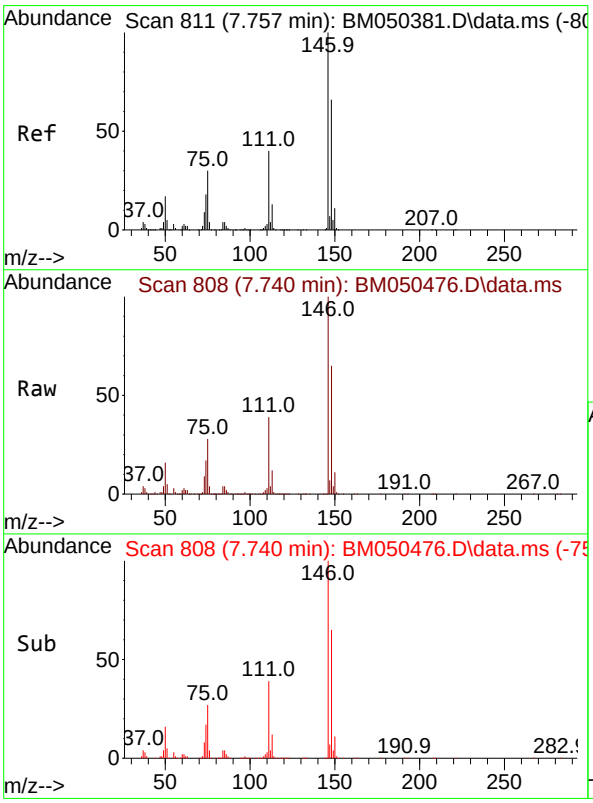
Ion	Ratio	Lower	Upper
93	100		
63	74.1	56.9	96.9
95	32.5	12.6	52.6



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED

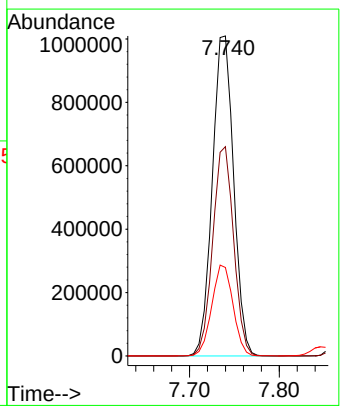
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

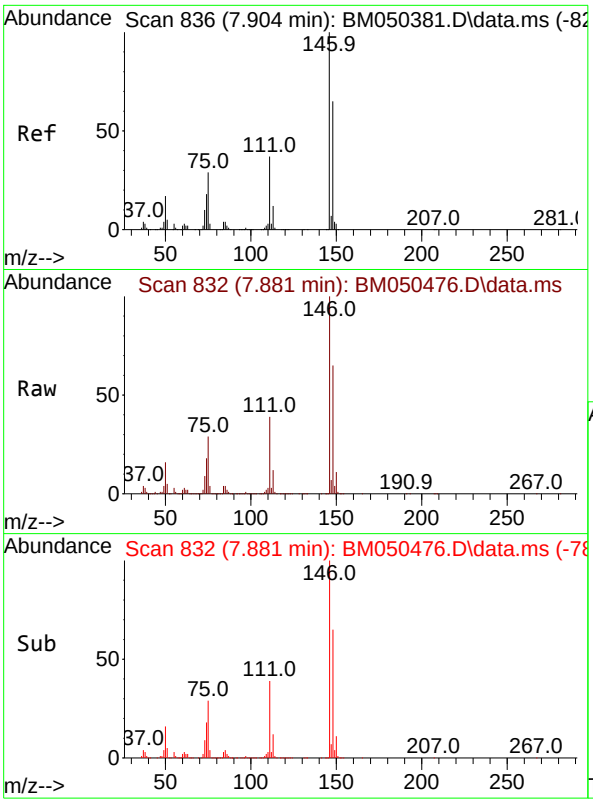


#12
1,3-Dichlorobenzene
Concen: 43.267 ng
RT: 7.740 min Scan# 808
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:146 Resp: 1664239

Ion	Ratio	Lower	Upper
146	100		
148	65.4	53.2	79.8
75	27.6	23.9	35.9

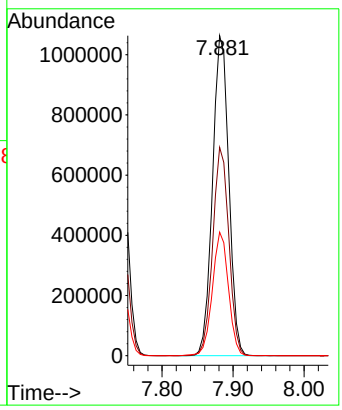




#13
1,4-Dichlorobenzene
Concen: 42.987 ng
RT: 7.881 min Scan# 8
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:146 Resp: 168834

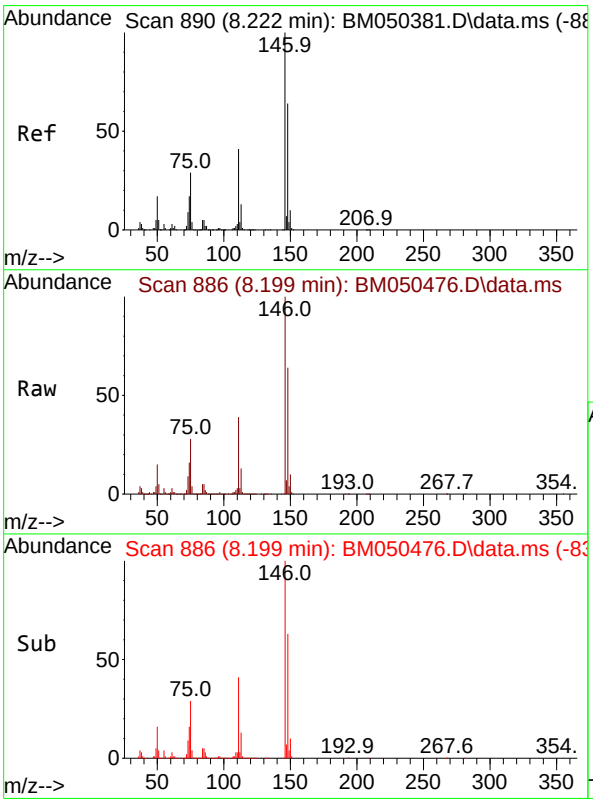
Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.9	77.9
111	38.6	30.0	45.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

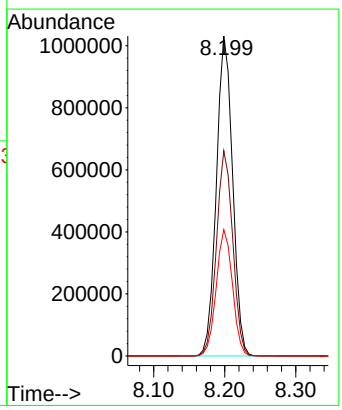
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

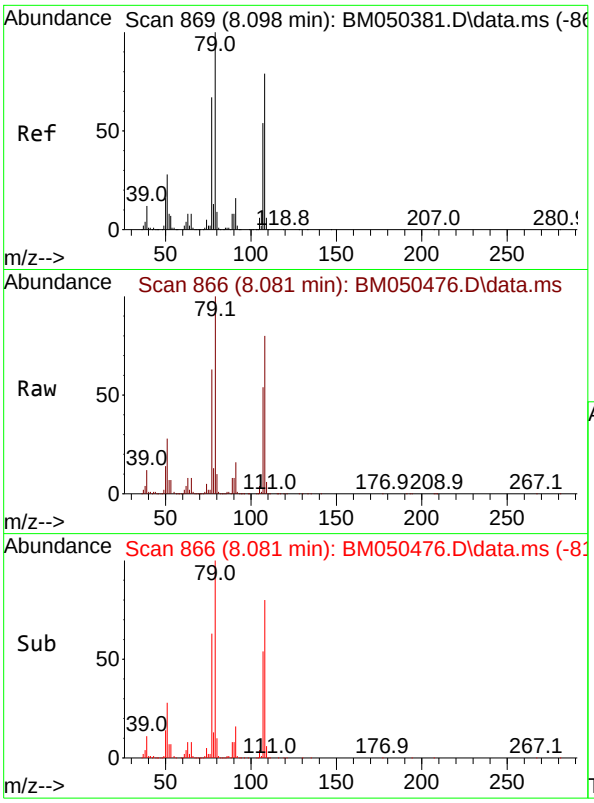


#14
1,2-Dichlorobenzene
Concen: 43.341 ng
RT: 8.199 min Scan# 886
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:146 Resp: 1629704

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.5	77.3
111	39.5	32.6	49.0





#15
Benzyl Alcohol
Concen: 46.649 ng
RT: 8.081 min Scan# 8
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

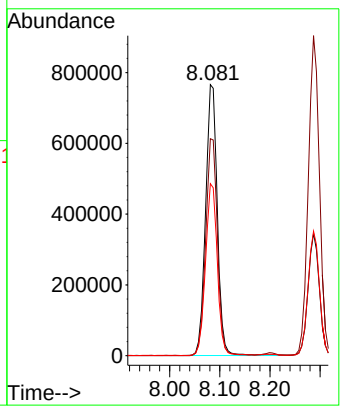
Tgt Ion: 79 Resp: 124301

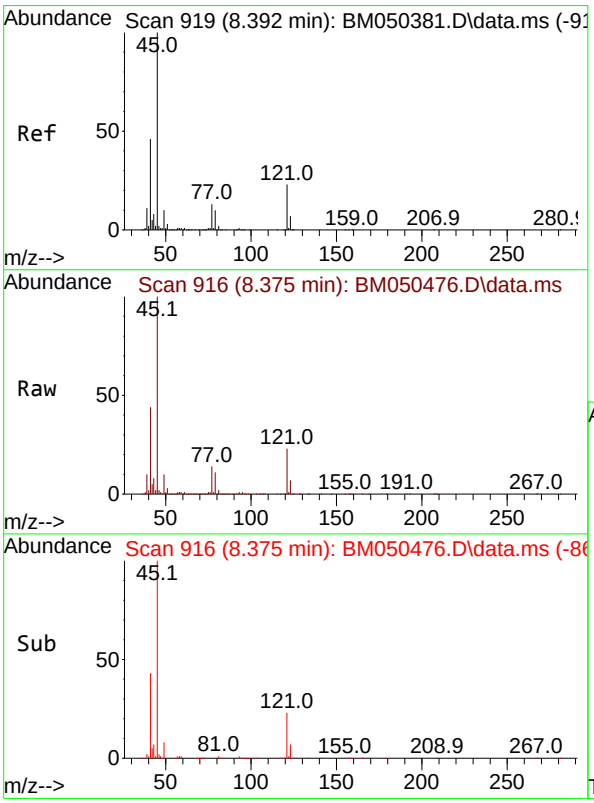
Ion	Ratio	Lower	Upper
79	100		
108	80.0	63.0	94.4
77	63.4	53.4	80.0

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

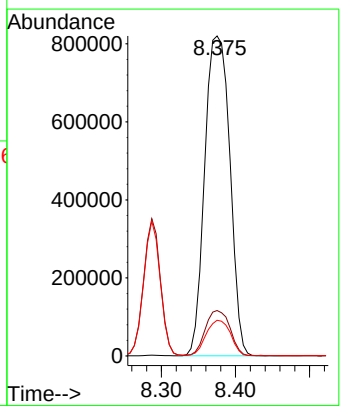


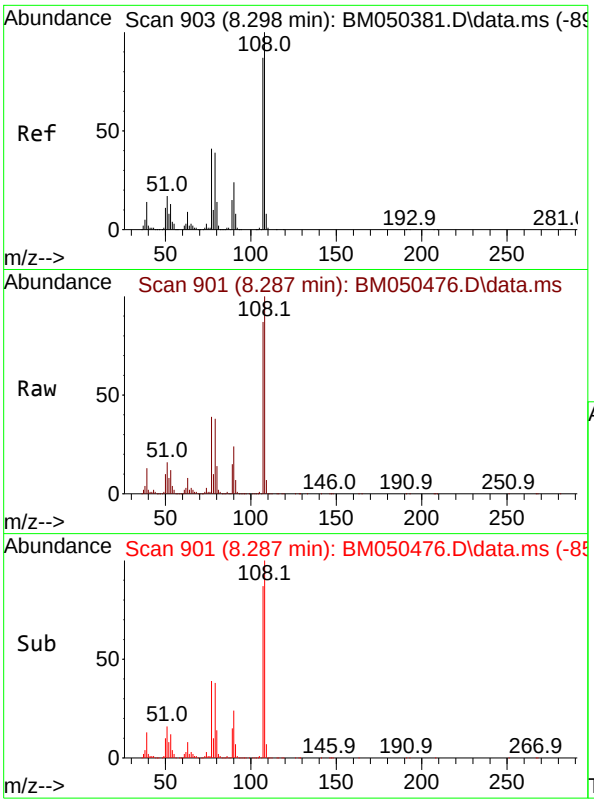


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.604 ng
RT: 8.375 min Scan# 916
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 45 Resp: 1935814

Ion	Ratio	Lower	Upper
45	100		
77	14.2	0.0	33.5
79	11.2	0.0	30.3

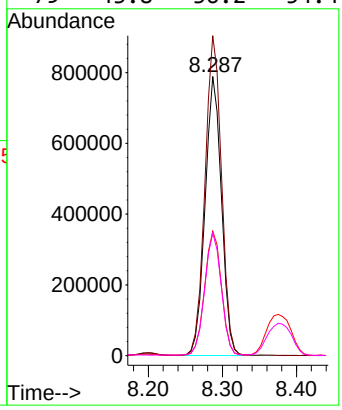




#17
2-Methylphenol
Concen: 47.389 ng
RT: 8.287 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:107 Resp: 121232

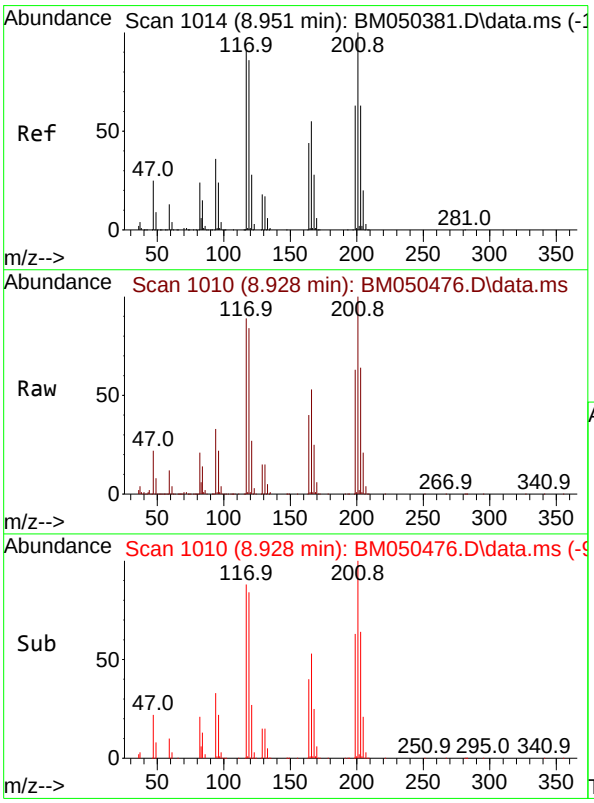
Ion	Ratio	Lower	Upper
107	100		
108	114.6	92.1	138.1
77	44.6	38.2	57.4
79	43.8	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

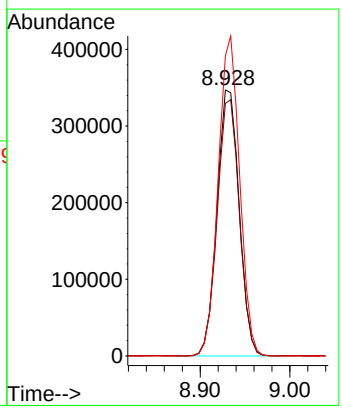
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

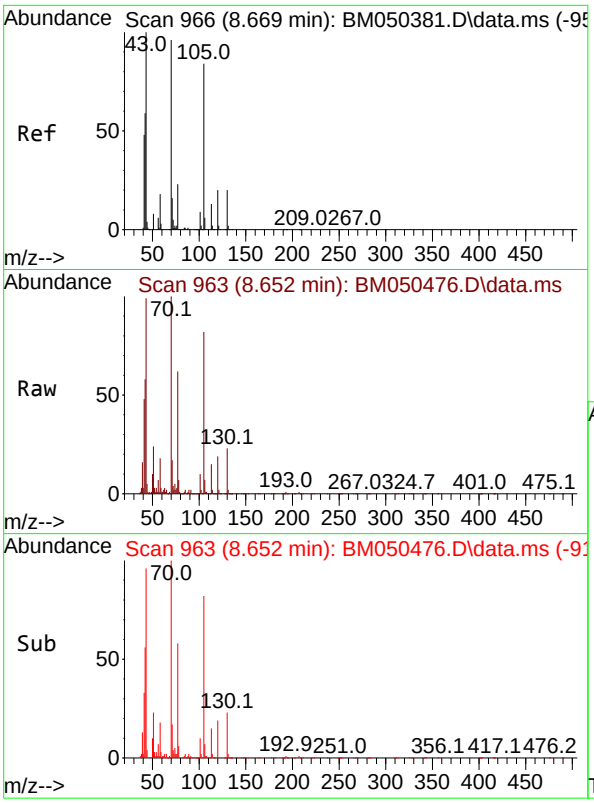


#18
Hexachloroethane
Concen: 43.108 ng
RT: 8.928 min Scan# 1010
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:117 Resp: 595451

Ion	Ratio	Lower	Upper
117	100		
119	95.0	75.6	113.4
201	112.9	87.9	131.9

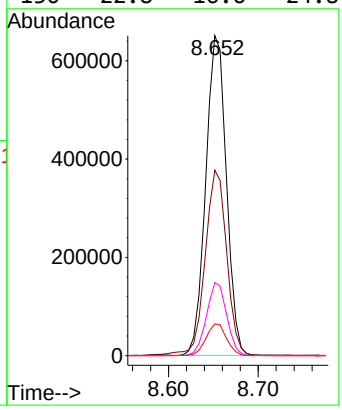




#19
n-Nitroso-di-n-propylamine
Concen: 45.347 ng
RT: 8.652 min Scan# 9(
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

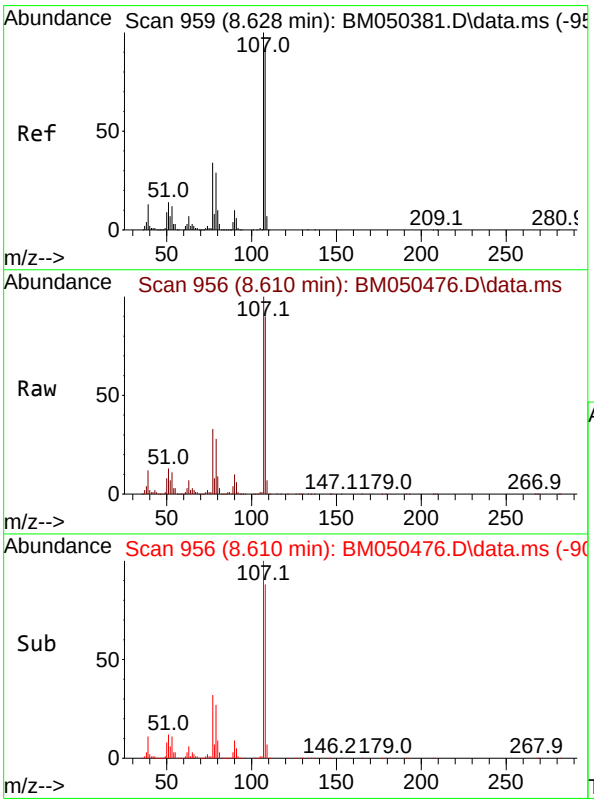
Tgt Ion: 70 Resp: 103889(

Ion	Ratio	Lower	Upper
70	100		
42	57.9	49.7	74.5
101	10.0	7.7	11.5
130	22.8	16.6	24.8



Instrument :
BNA_M
ClientSampleId :
PB168885BS

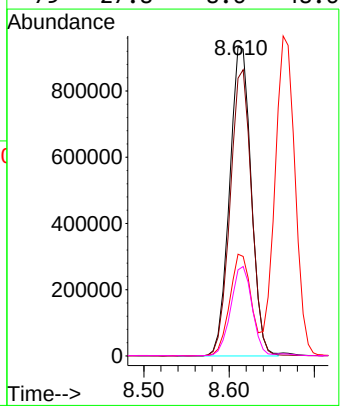
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

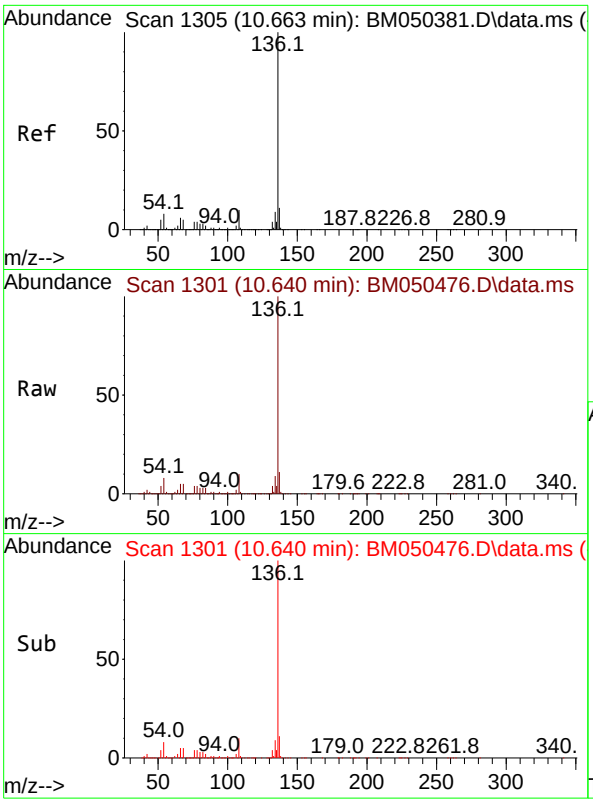


#20
3+4-Methylphenols
Concen: 47.812 ng
RT: 8.610 min Scan# 956
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:107 Resp: 1642016

Ion	Ratio	Lower	Upper
107	100		
108	89.8	71.5	111.5
77	32.9	13.7	53.7
79	27.8	8.6	48.6

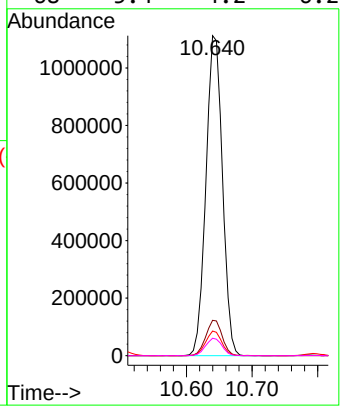




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.640 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:136 Resp: 194820

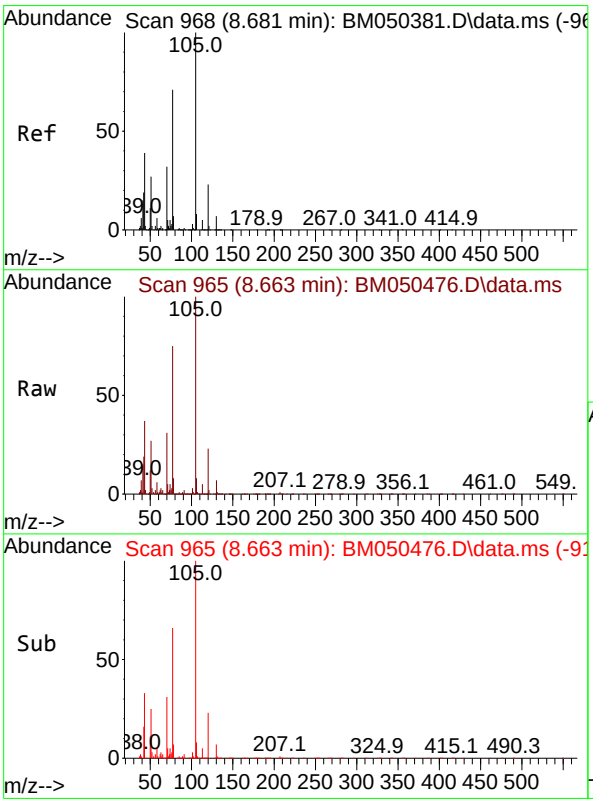
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	7.7	6.3	9.5
68	5.4	4.2	6.2



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

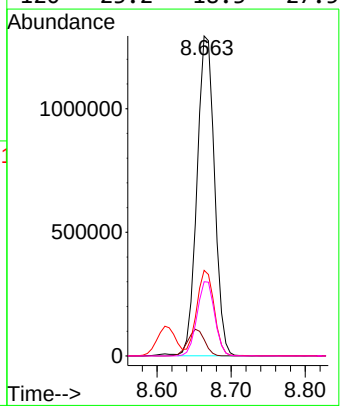
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

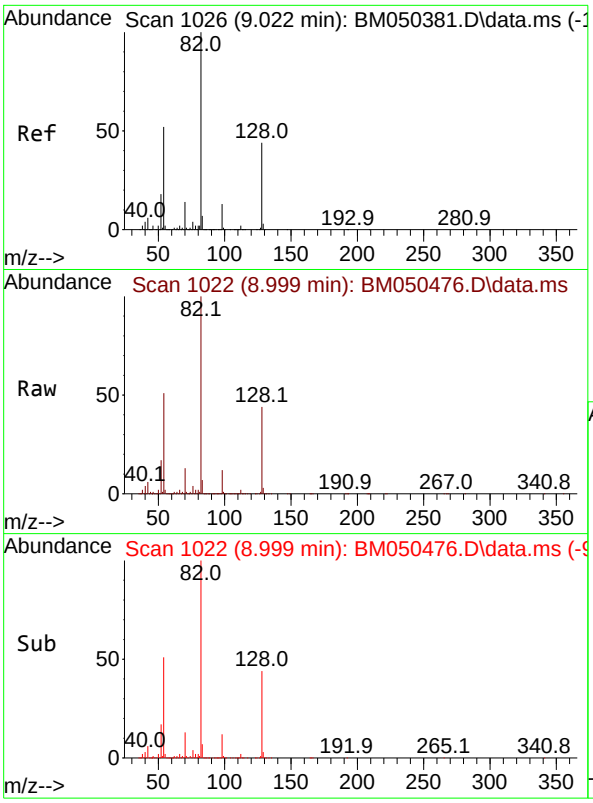


#22
Acetophenone
Concen: 43.537 ng
RT: 8.663 min Scan# 965
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:105 Resp: 2120698

Ion	Ratio	Lower	Upper
105	100		
71	5.1	4.4	6.6
51	26.8	23.0	34.6
120	23.2	18.3	27.5

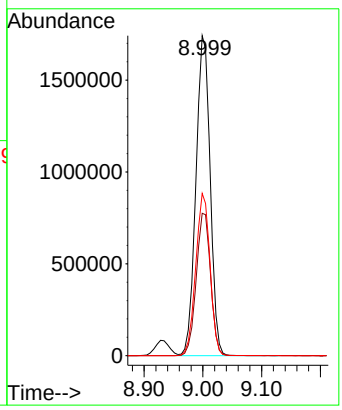




#23
Nitrobenzene-d5
Concen: 76.825 ng
RT: 8.999 min Scan# 1(
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 82 Resp: 293367

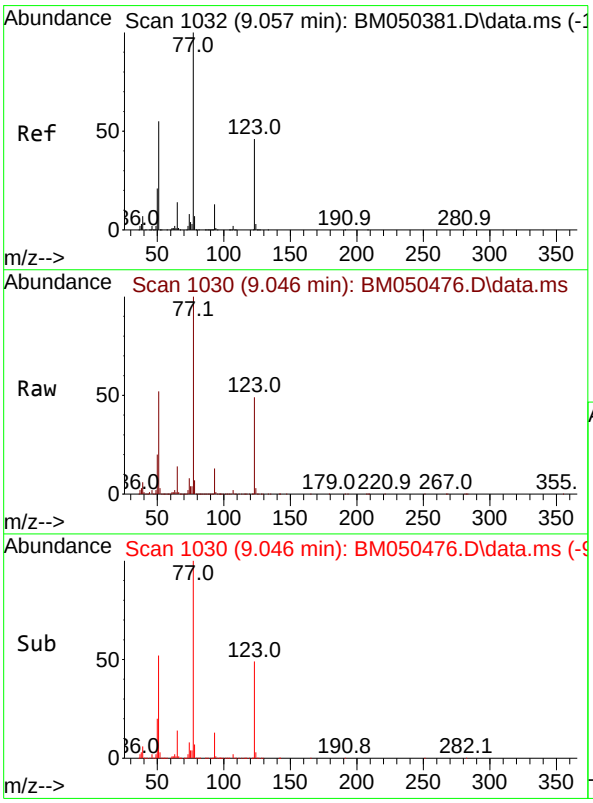
Ion	Ratio	Lower	Upper
82	100		
128	44.5	35.2	52.8
54	50.7	41.5	62.3



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

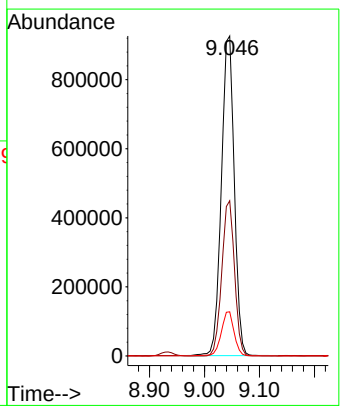
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

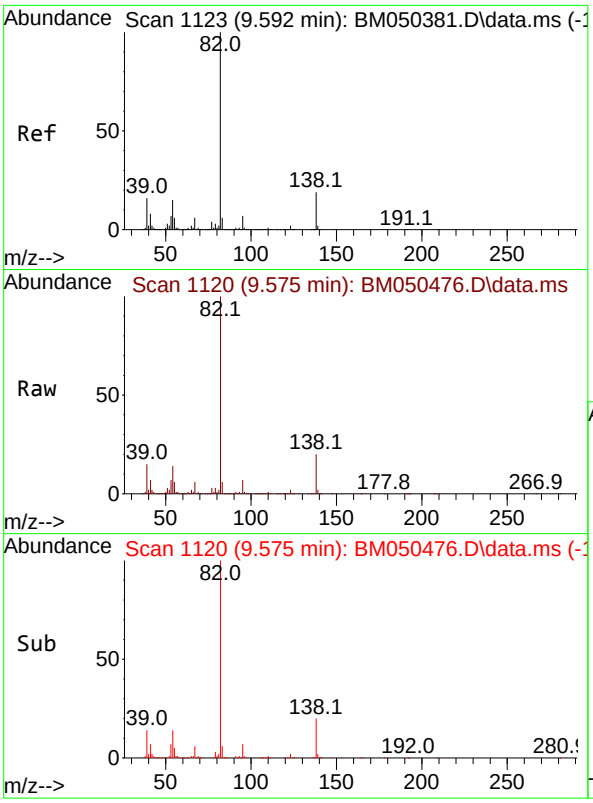


#24
Nitrobenzene
Concen: 44.305 ng
RT: 9.046 min Scan# 1030
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 77 Resp: 1509739

Ion	Ratio	Lower	Upper
77	100		
123	48.5	37.0	55.6
65	13.8	11.0	16.4

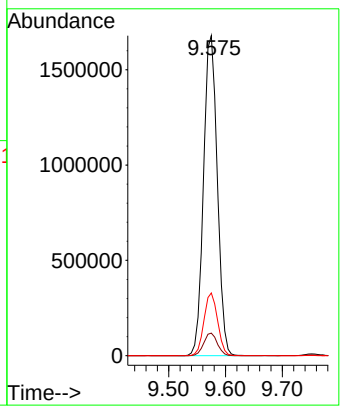




#25
Isophorone
Concen: 45.423 ng
RT: 9.575 min Scan# 11
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 82 Resp: 281461

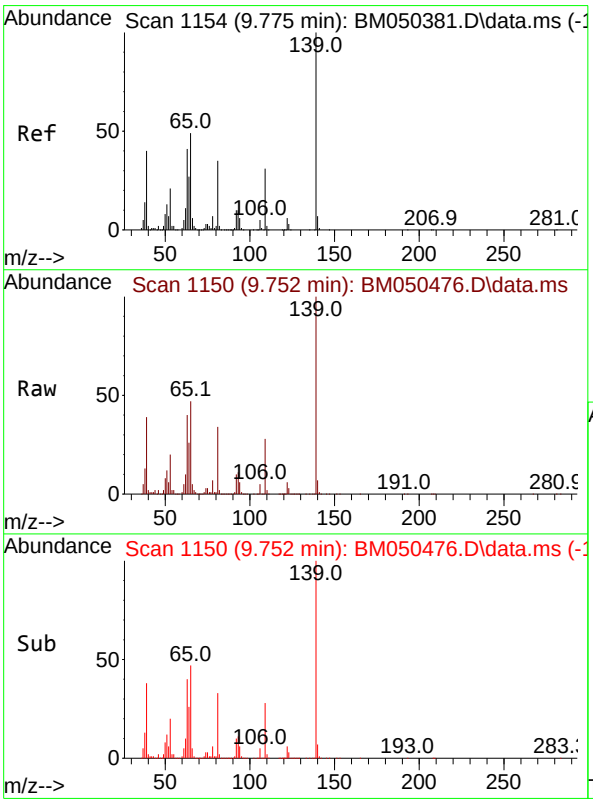
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.6	8.4
138	19.6	15.3	22.9



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

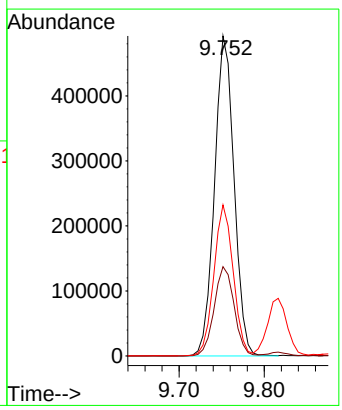
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

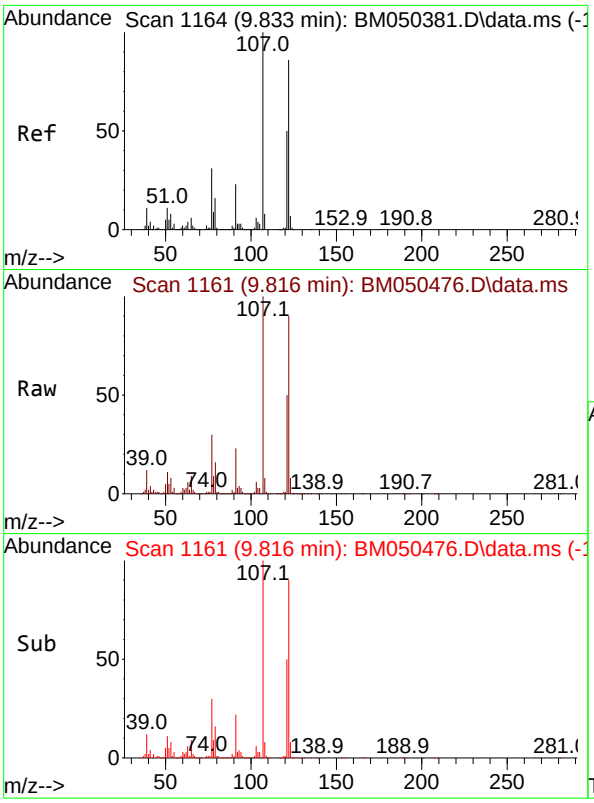


#26
2-Nitrophenol
Concen: 56.446 ng
RT: 9.752 min Scan# 1150
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:139 Resp: 783921

Ion	Ratio	Lower	Upper
139	100		
109	27.9	24.6	36.8
65	47.2	39.2	58.8

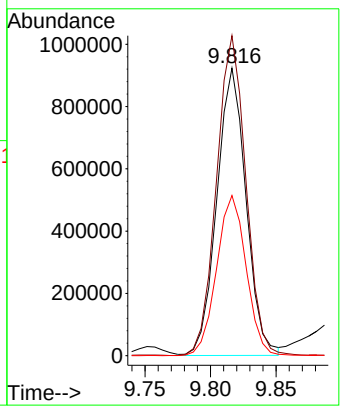




#27
2,4-Dimethylphenol
Concen: 48.416 ng
RT: 9.816 min Scan# 11
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:122 Resp: 143079

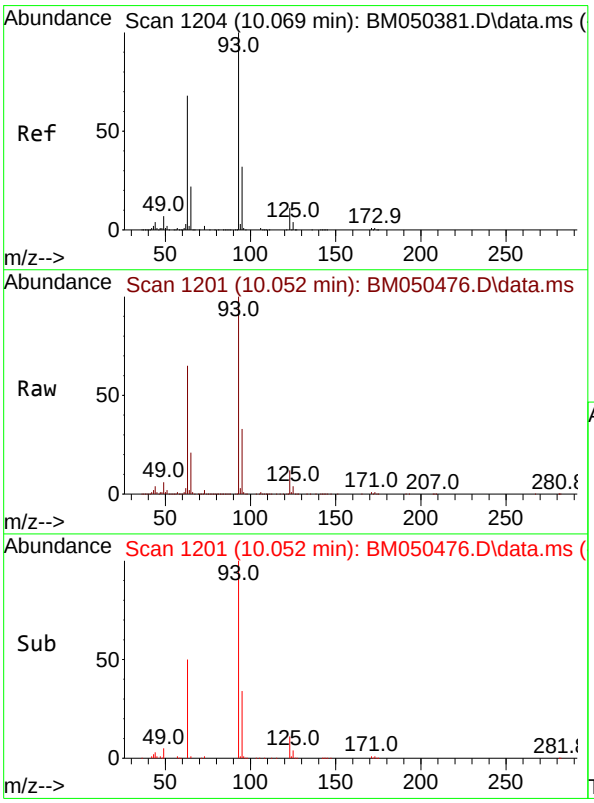
Ion	Ratio	Lower	Upper
122	100		
107	111.3	93.0	139.6
121	55.7	46.1	69.1



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

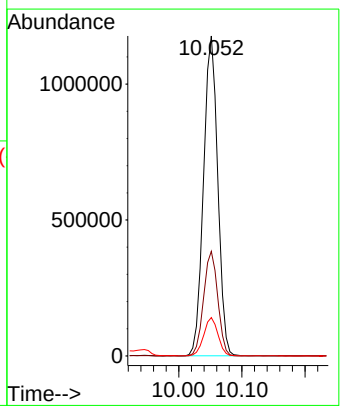
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

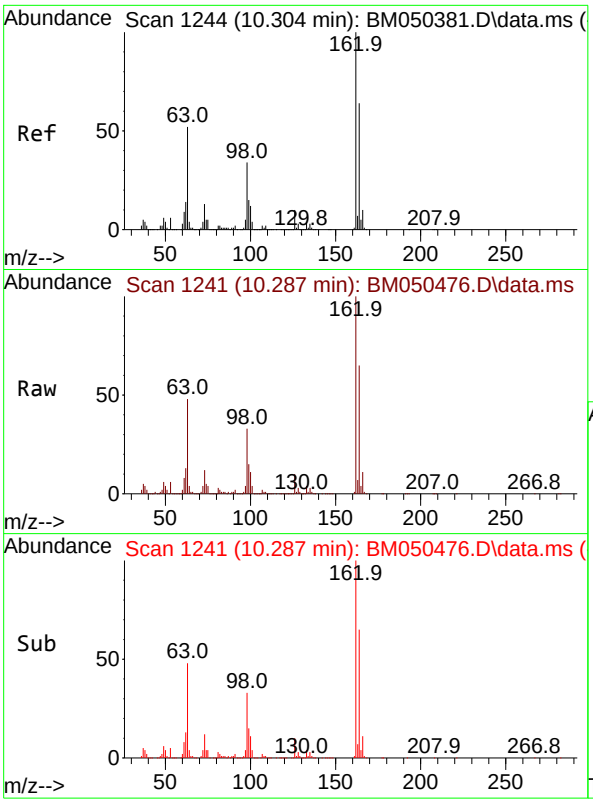


#28
bis(2-Chloroethoxy)methane
Concen: 44.768 ng
RT: 10.052 min Scan# 1201
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 93 Resp: 1838156

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.8	38.6
123	12.0	9.1	13.7

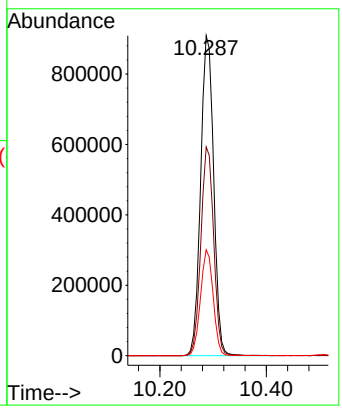




#29
2,4-Dichlorophenol
Concen: 50.768 ng
RT: 10.287 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:162 Resp: 154134

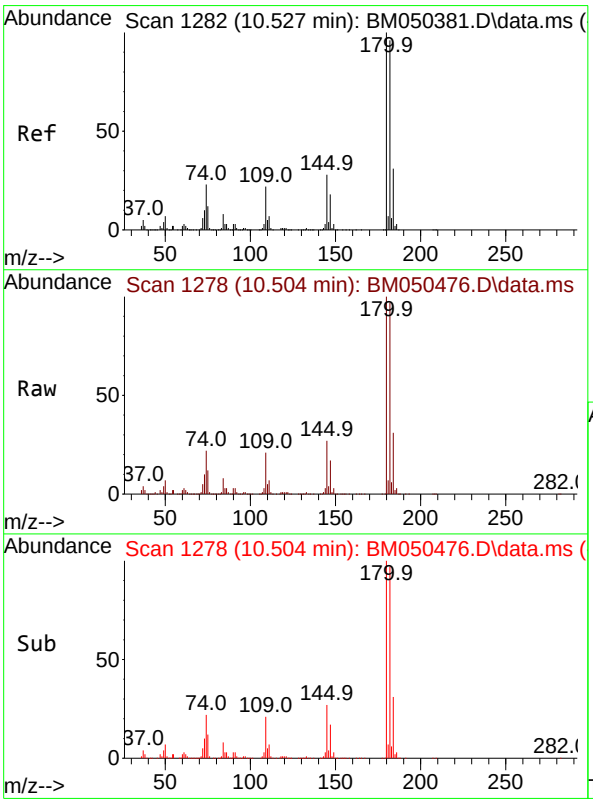
Ion	Ratio	Lower	Upper
162	100		
164	65.2	43.7	83.7
98	33.1	13.7	53.7



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

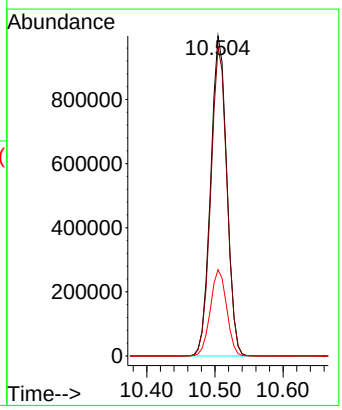
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

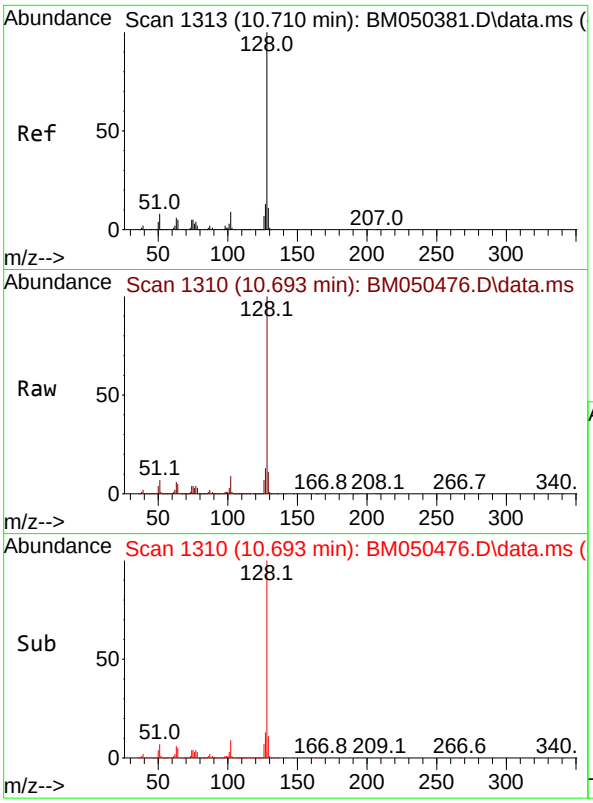


#30
1,2,4-Trichlorobenzene
Concen: 45.296 ng
RT: 10.504 min Scan# 1278
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:180 Resp: 1645152

Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.8	115.2
145	27.0	22.6	33.8

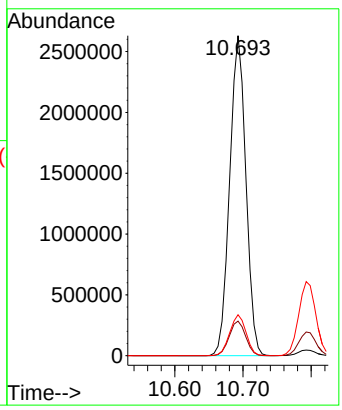




#31
Naphthalene
Concen: 43.933 ng
RT: 10.693 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:128 Resp: 434739

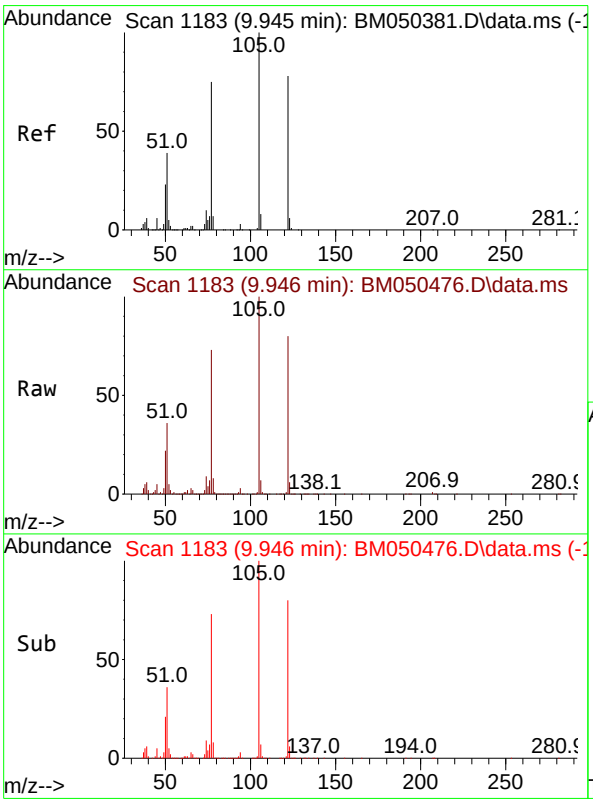
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	12.8	10.4	15.6



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

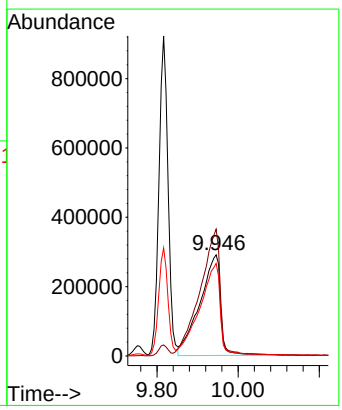
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

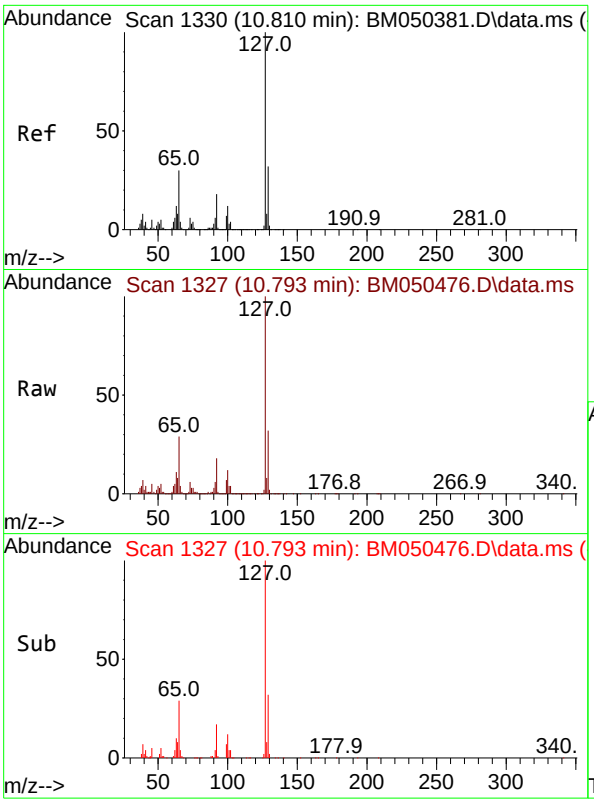


#32
Benzoic acid
Concen: 55.734 ng
RT: 9.946 min Scan# 1183
Delta R.T. 0.012 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:122 Resp: 1030936

Ion	Ratio	Lower	Upper
122	100		
105	125.2	104.0	144.0
77	91.4	73.8	113.8

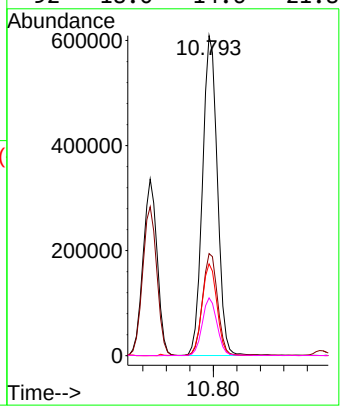




#33
4-Chloroaniline
Concen: 25.564 ng
RT: 10.793 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:127 Resp: 106943

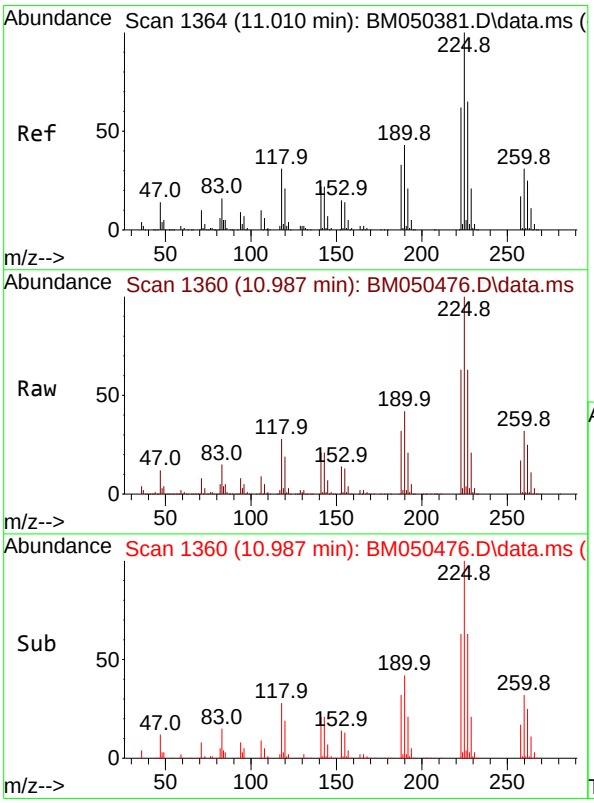
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.5	38.3
65	28.7	23.9	35.9
92	18.0	14.6	21.8



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

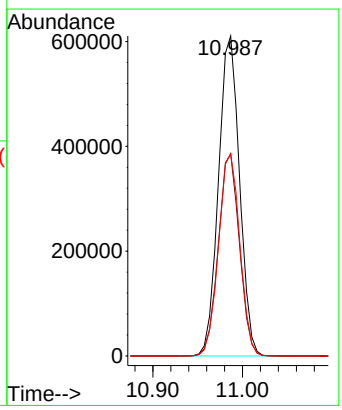
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

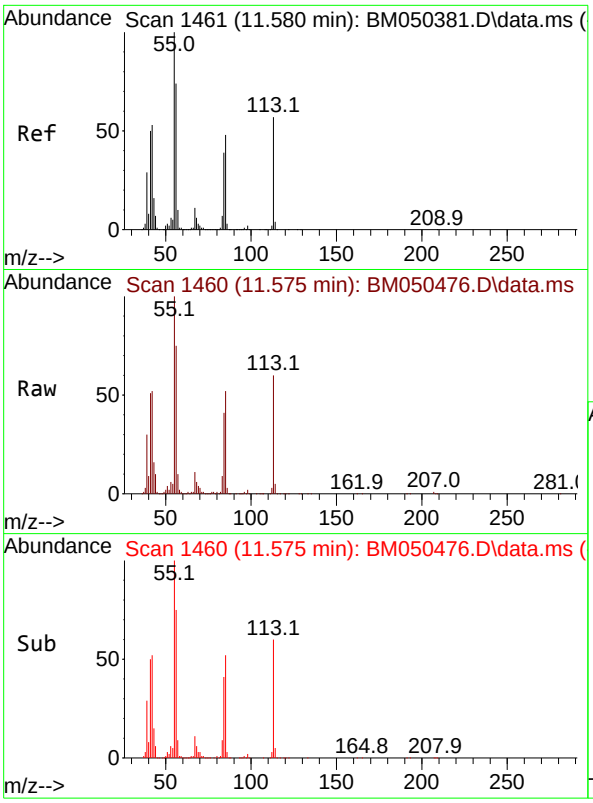


#34
Hexachlorobutadiene
Concen: 44.805 ng
RT: 10.987 min Scan# 1360
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:225 Resp: 993212

Ion	Ratio	Lower	Upper
225	100		
223	63.1	49.7	74.5
227	63.3	52.1	78.1

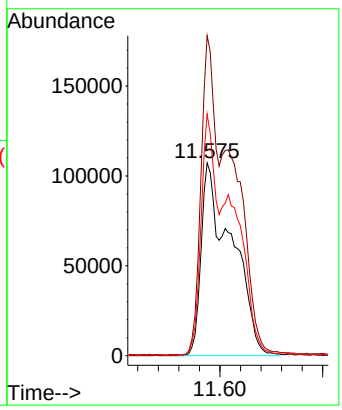




#35
Caprolactam
Concen: 53.108 ng m
RT: 11.575 min Scan# 14
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:113 Resp: 44016

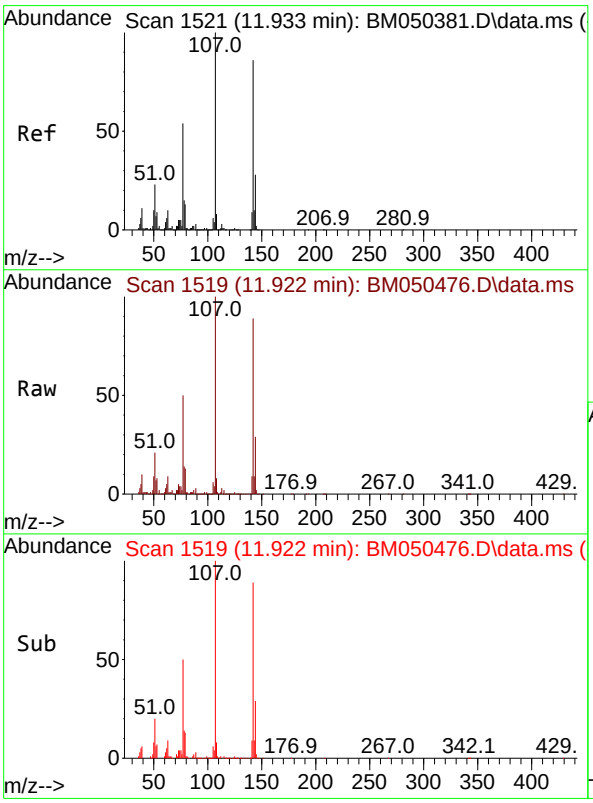
Ion	Ratio	Lower	Upper
113	100		
55	165.9	157.2	197.2
56	125.3	111.7	151.7



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

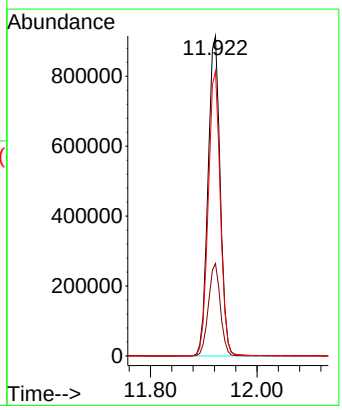
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

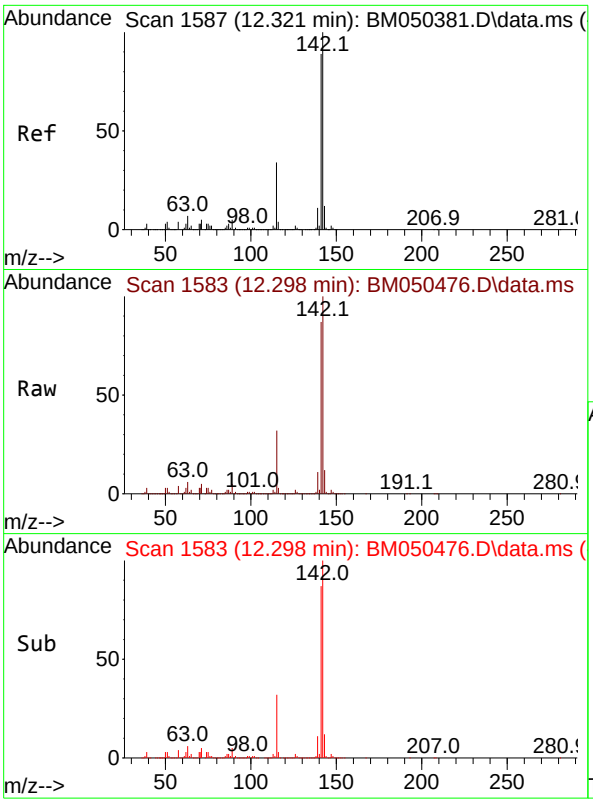


#36
4-Chloro-3-methylphenol
Concen: 51.138 ng
RT: 11.922 min Scan# 1519
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:107 Resp: 1449850

Ion	Ratio	Lower	Upper
107	100		
144	28.9	22.2	33.4
142	89.0	68.7	103.1

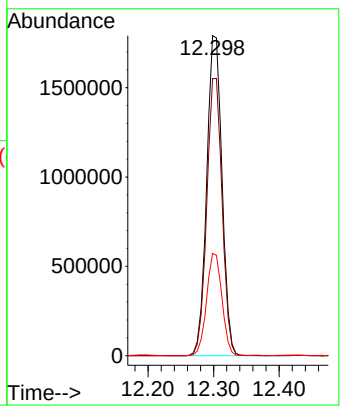




#37
2-Methylnaphthalene
Concen: 46.526 ng
RT: 12.298 min Scan# 1
Delta R.T. -0.005 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:142 Resp: 290696

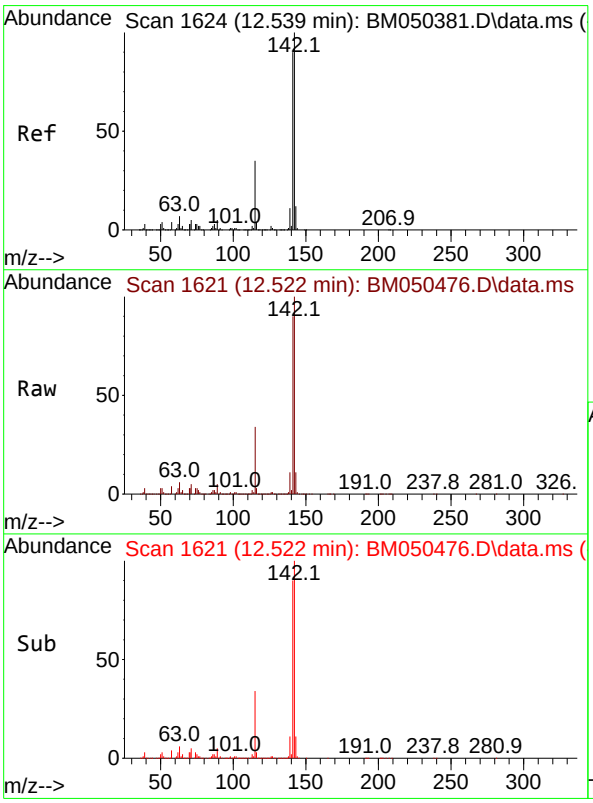
Ion	Ratio	Lower	Upper
142	100		
141	86.6	70.8	106.2
115	31.9	27.0	40.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

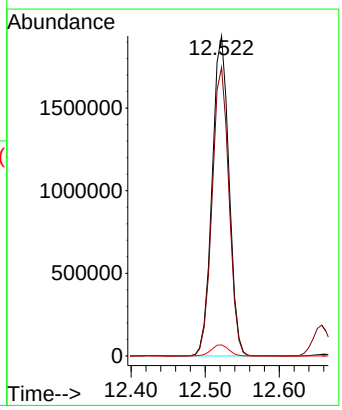
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

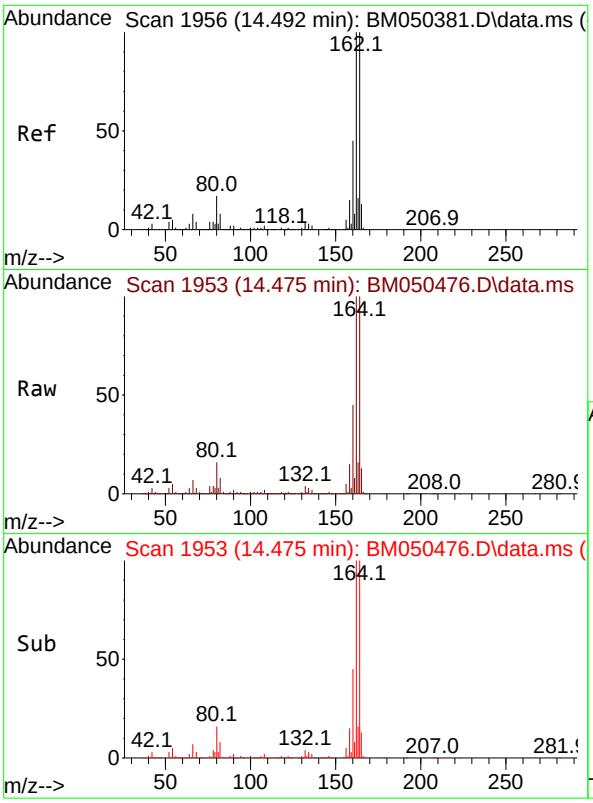


#38
1-Methylnaphthalene
Concen: 46.083 ng
RT: 12.522 min Scan# 1621
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:142 Resp: 3047148

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.9	107.9
116	3.5	3.0	4.6

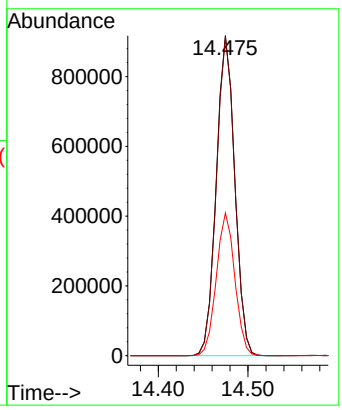




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.475 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:164 Resp: 131333

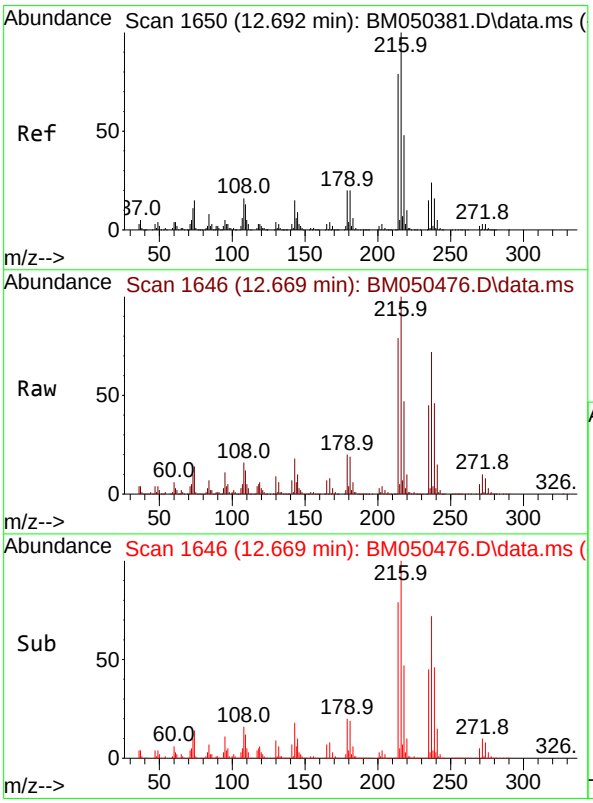
Ion	Ratio	Lower	Upper
164	100		
162	99.6	79.9	119.9
160	44.6	36.2	54.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

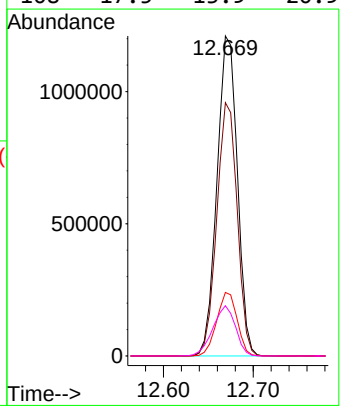
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

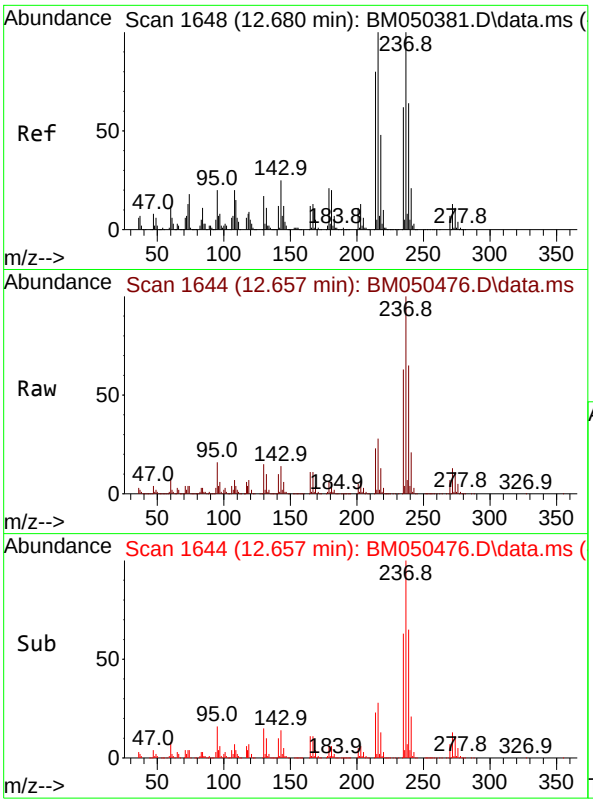


#40
1,2,4,5-Tetrachlorobenzene
Concen: 45.724 ng
RT: 12.669 min Scan# 1646
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:216 Resp: 1909685

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.3	94.9
179	20.0	16.4	24.6
108	17.5	13.9	20.9





#41
Hexachlorocyclopentadiene
Concen: 97.780 ng
RT: 12.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

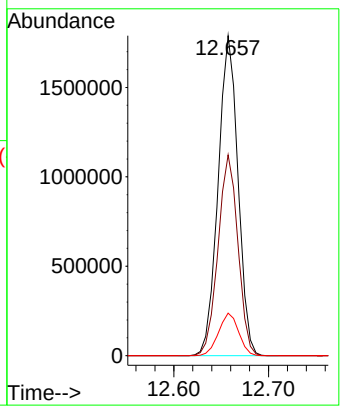
Tgt Ion:237 Resp: 261041

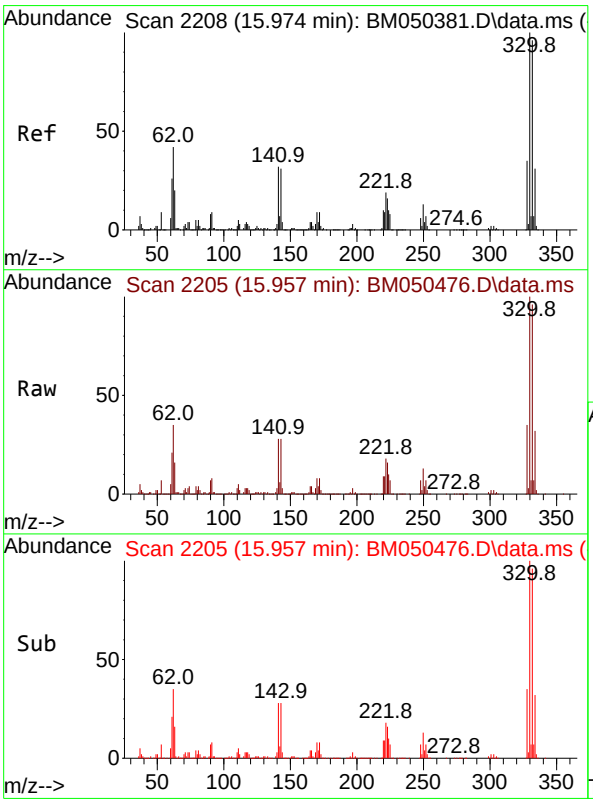
Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.3	82.3
272	13.3	0.0	33.0

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

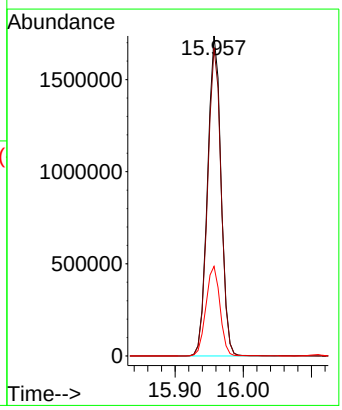


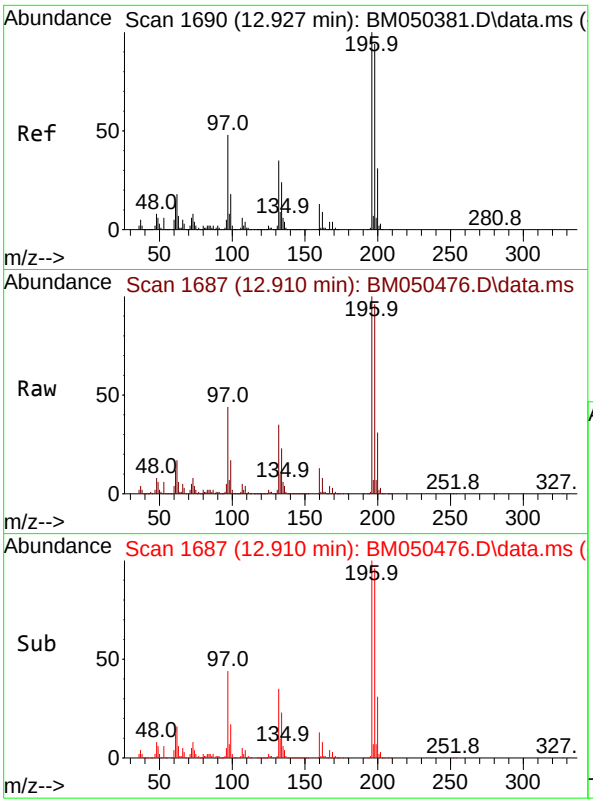


#42
2,4,6-Tribromophenol
Concen: 149.748 ng
RT: 15.957 min Scan# 2205
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:330 Resp: 2389558

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.9	115.3
141	29.3	27.4	41.0

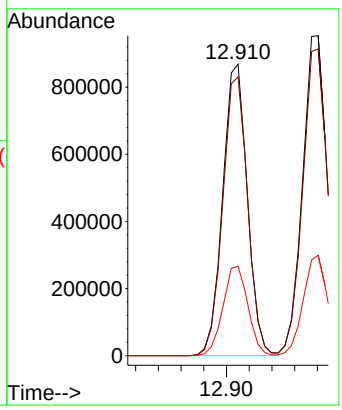




#43
2,4,6-Trichlorophenol
Concen: 50.938 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:196 Resp: 130952

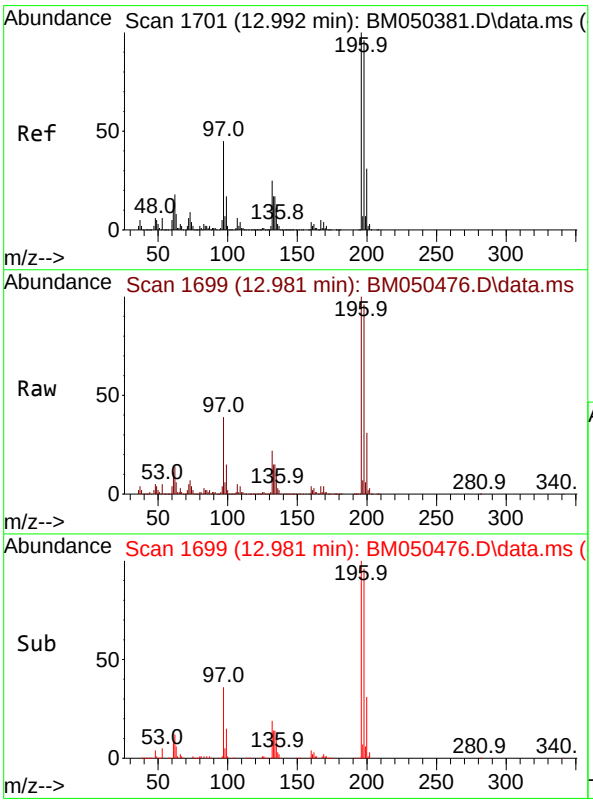
Ion	Ratio	Lower	Upper
196	100		
198	95.6	75.1	112.7
200	30.7	24.6	37.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

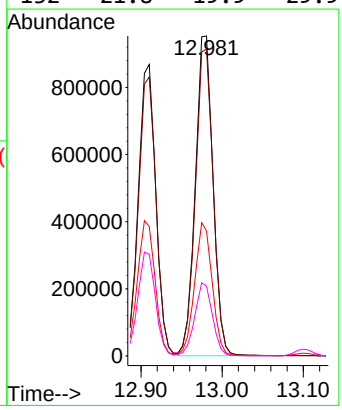
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

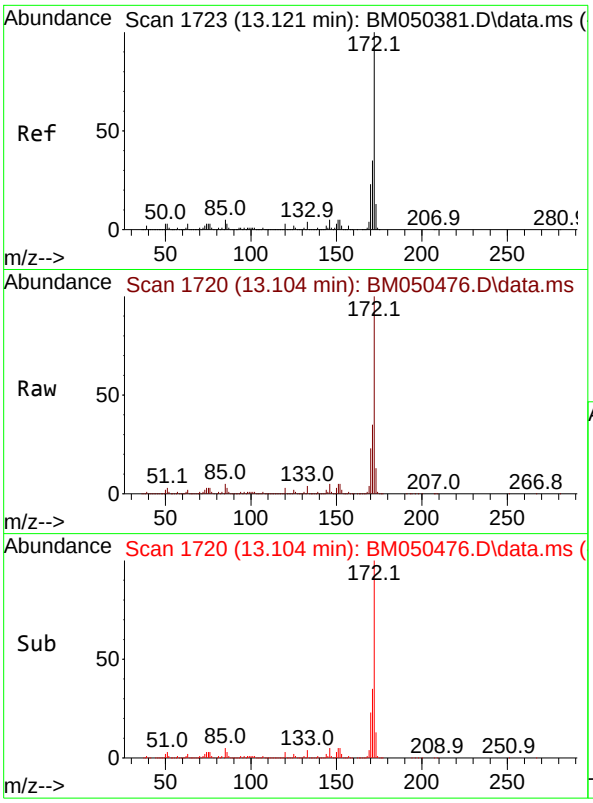


#44
2,4,5-Trichlorophenol
Concen: 51.658 ng
RT: 12.981 min Scan# 1699
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:196 Resp: 1450386

Ion	Ratio	Lower	Upper
196	100		
198	95.8	77.2	115.8
97	39.1	36.2	54.4
132	21.8	19.9	29.9

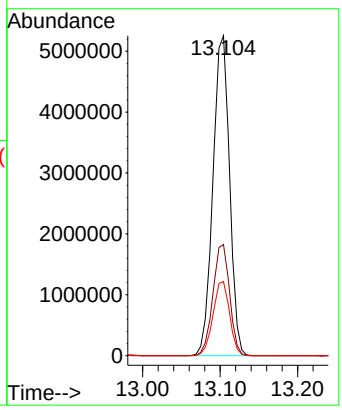




#45
2-Fluorobiphenyl
Concen: 73.518 ng
RT: 13.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:172 Resp: 781850

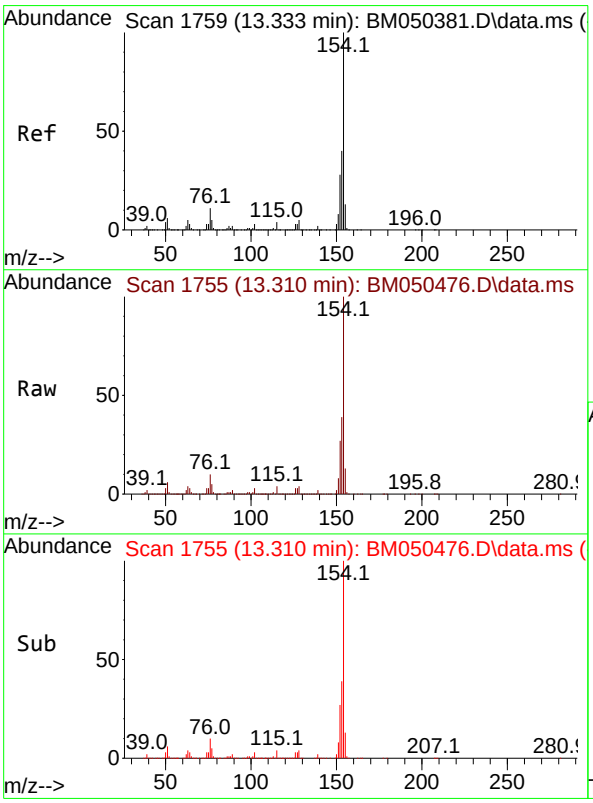
Ion	Ratio	Lower	Upper
172	100		
171	34.8	27.7	41.5
170	23.2	18.8	28.2



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

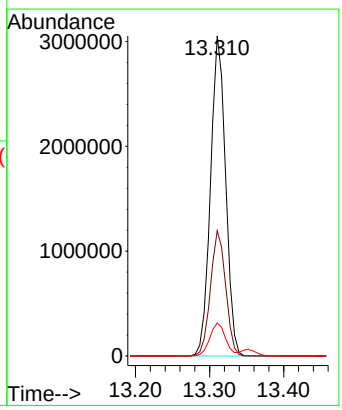
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

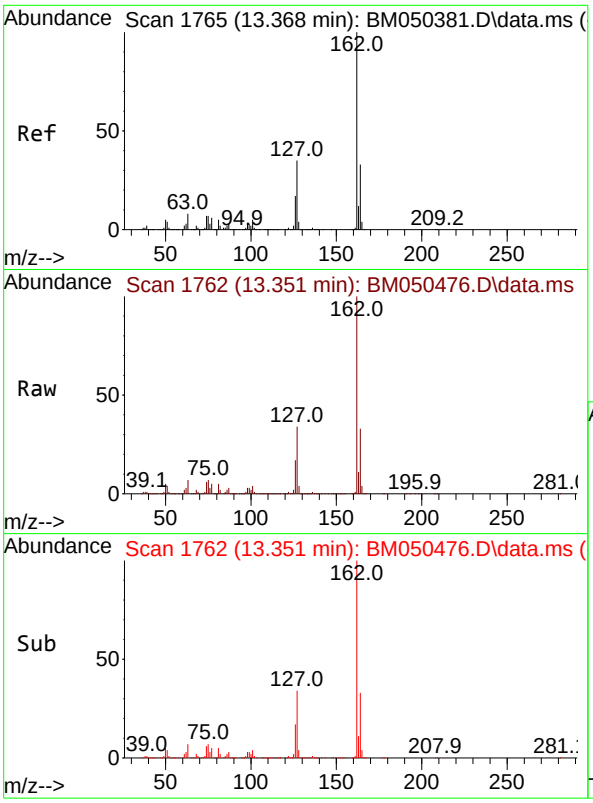


#46
1,1'-Biphenyl
Concen: 44.311 ng
RT: 13.310 min Scan# 1755
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:154 Resp: 4317725

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.7	59.7
76	10.3	0.0	30.9

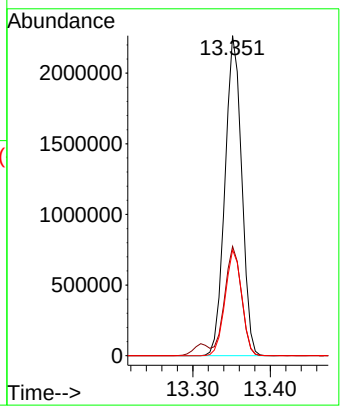




#47
2-Chloronaphthalene
Concen: 43.840 ng
RT: 13.351 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:162 Resp: 340594

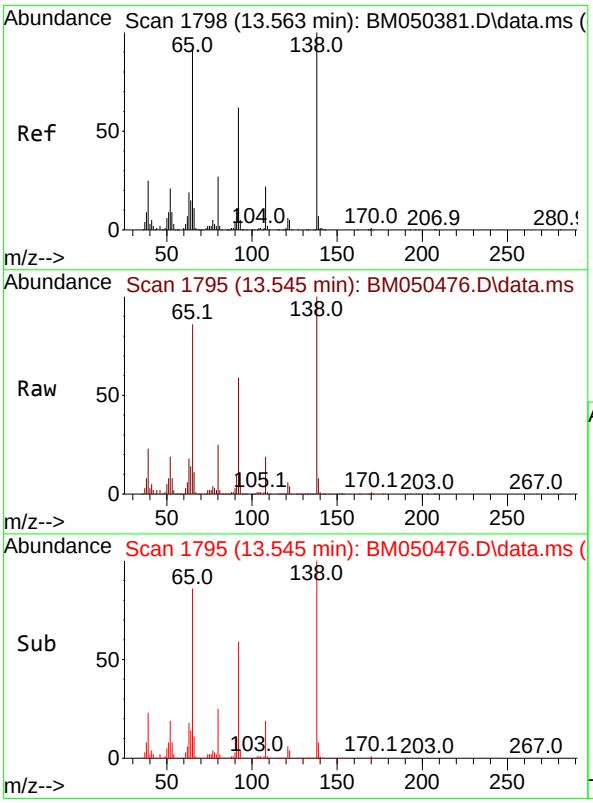
Ion	Ratio	Lower	Upper
162	100		
127	34.2	28.3	42.5
164	33.0	26.6	40.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

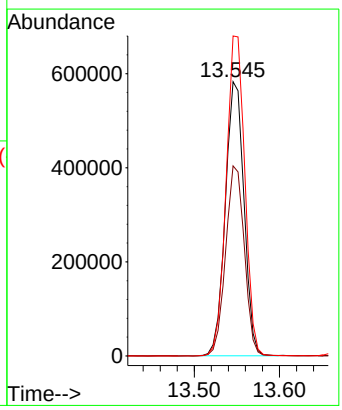
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

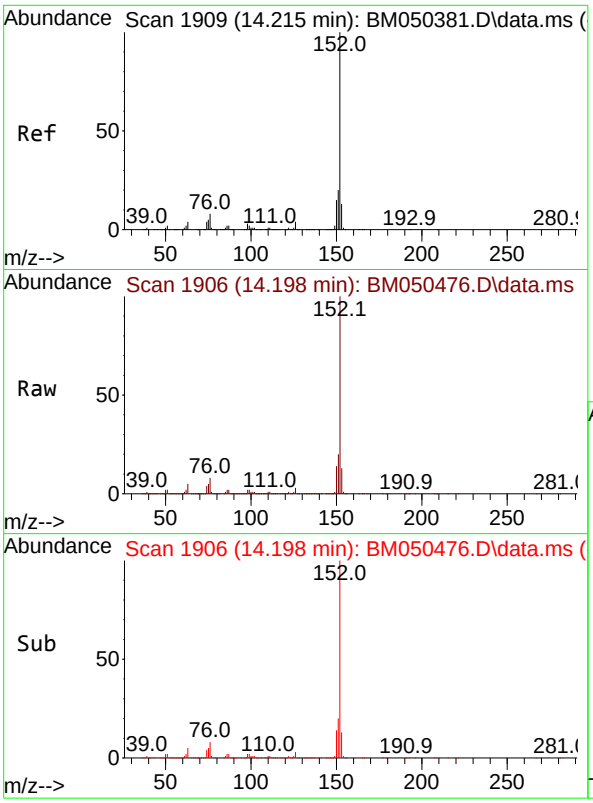


#48
2-Nitroaniline
Concen: 51.189 ng
RT: 13.545 min Scan# 1795
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 65 Resp: 887681

Ion	Ratio	Lower	Upper
65	100		
92	69.3	54.3	81.5
138	116.7	87.8	131.6

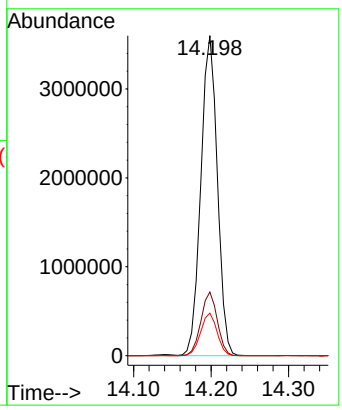




#49
Acenaphthylene
Concen: 45.277 ng
RT: 14.198 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:152 Resp: 531605

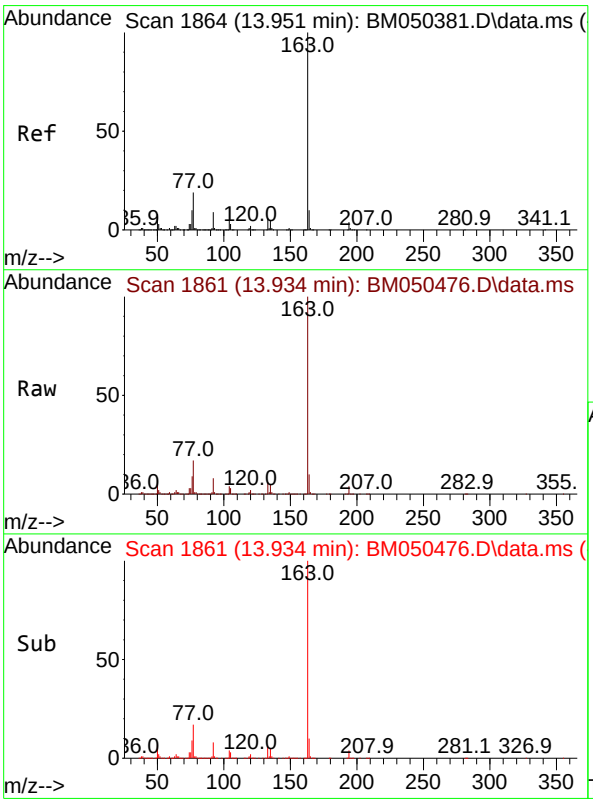
Ion	Ratio	Lower	Upper
152	100		
151	19.9	16.3	24.5
153	13.3	10.6	15.8



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

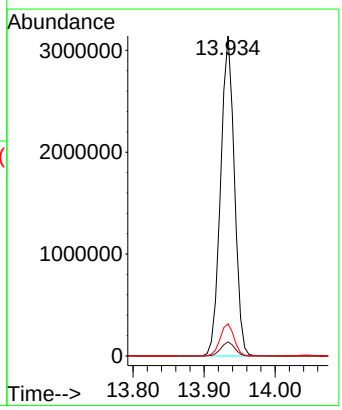
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

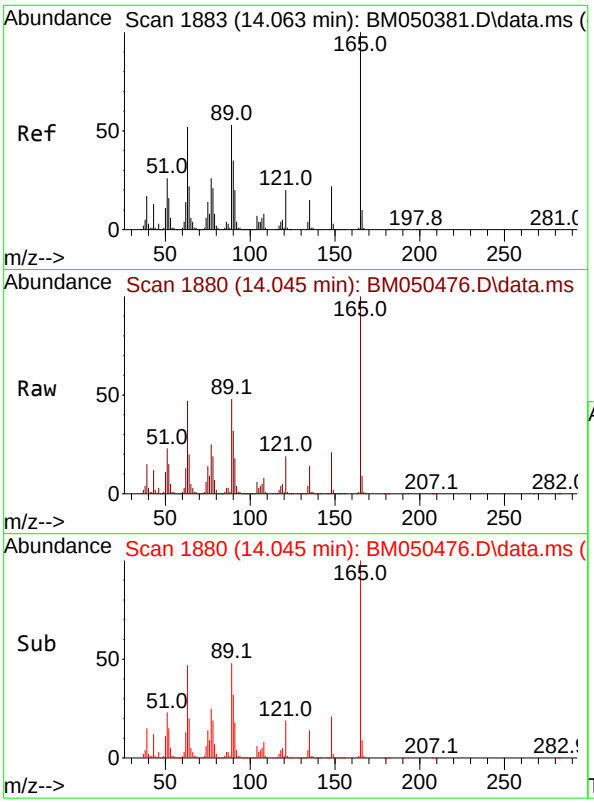


#50
Dimethylphthalate
Concen: 46.615 ng
RT: 13.934 min Scan# 1861
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:163 Resp: 4214908

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.1	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 51.738 ng
RT: 14.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

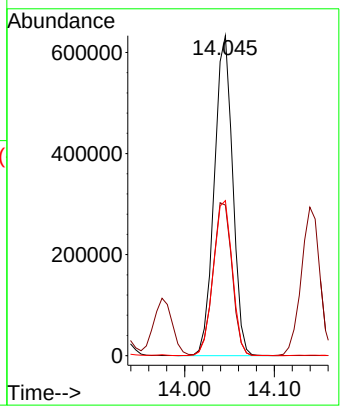
Tgt Ion:165 Resp: 89821

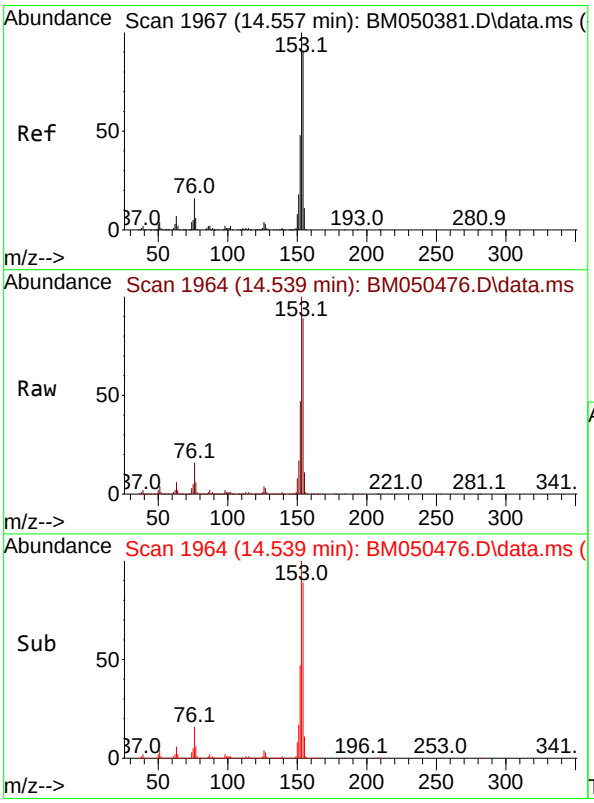
Ion	Ratio	Lower	Upper
165	100		
63	47.1	42.4	63.6
89	48.4	42.2	63.2

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

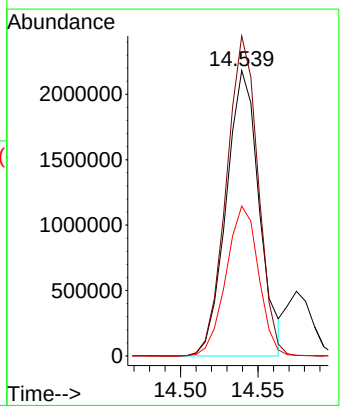


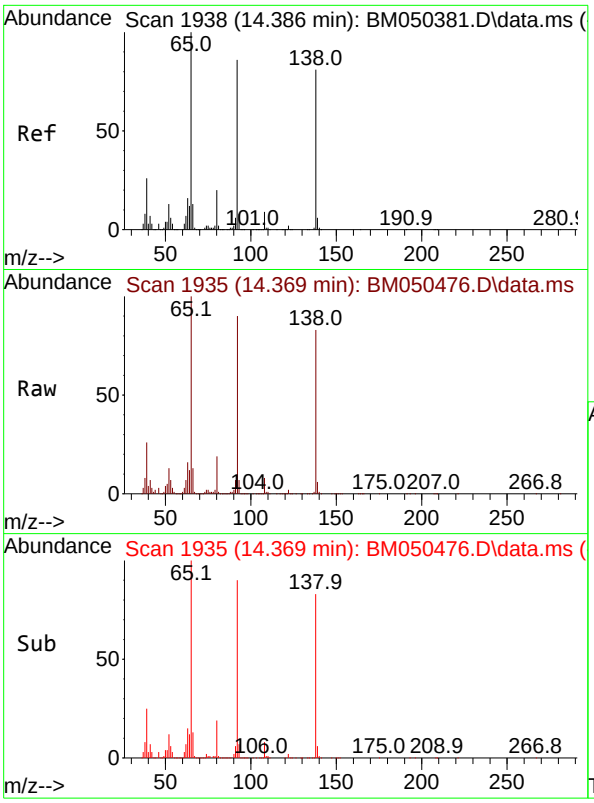


#52
Acenaphthene
Concen: 43.143 ng
RT: 14.539 min Scan# 1964
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:154 Resp: 3220488

Ion	Ratio	Lower	Upper
154	100		
153	112.1	89.2	133.8
152	52.5	42.6	64.0

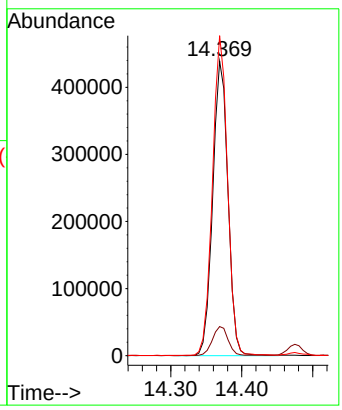




#53
3-Nitroaniline
Concen: 35.347 ng
RT: 14.369 min Scan# 1
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:138 Resp: 65260

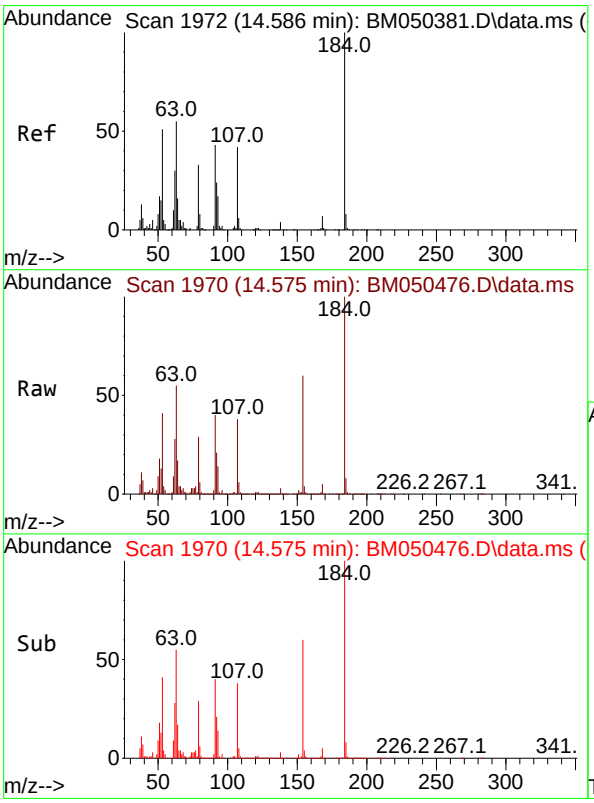
Ion	Ratio	Lower	Upper
138	100		
108	9.9	8.8	13.2
92	108.6	85.0	127.6



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED

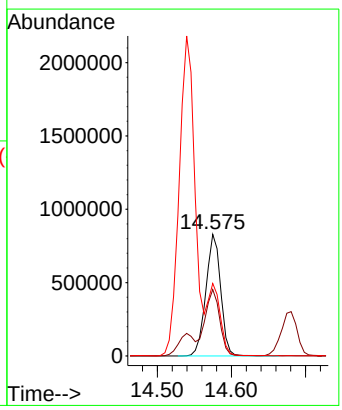
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

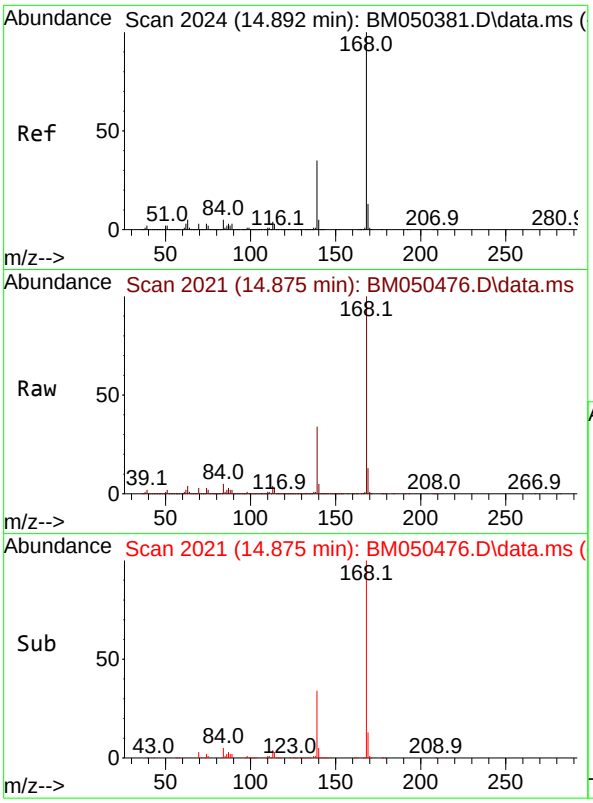


#54
2,4-Dinitrophenol
Concen: 117.097 ng
RT: 14.575 min Scan# 1970
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:184 Resp: 1152712

Ion	Ratio	Lower	Upper
184	100		
63	54.6	53.4	80.0
154	59.6	61.6	92.4#

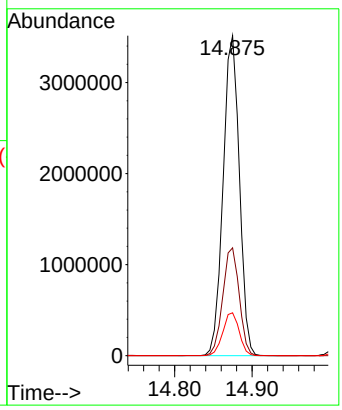




#55
Dibenzofuran
Concen: 44.563 ng
RT: 14.875 min Scan# 2
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:168 Resp: 512541

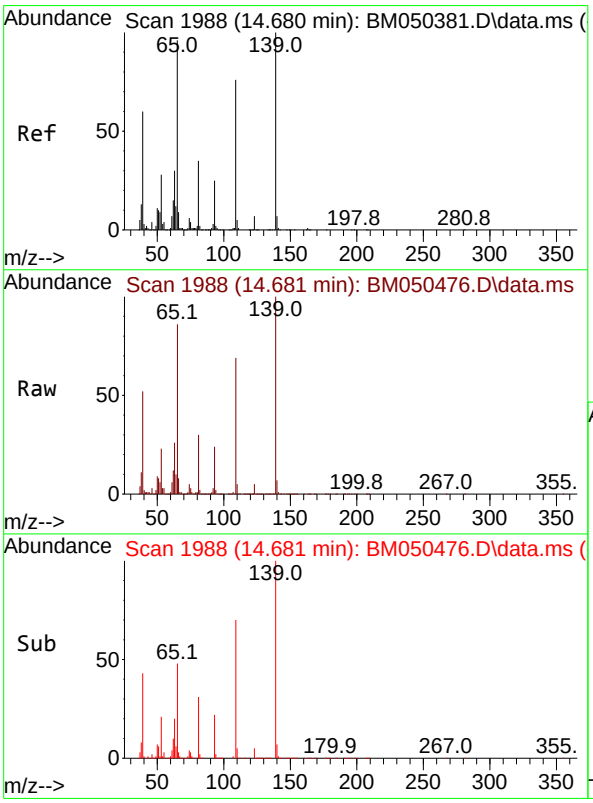
Ion	Ratio	Lower	Upper
168	100		
139	33.7	27.7	41.5
169	13.4	10.7	16.1



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

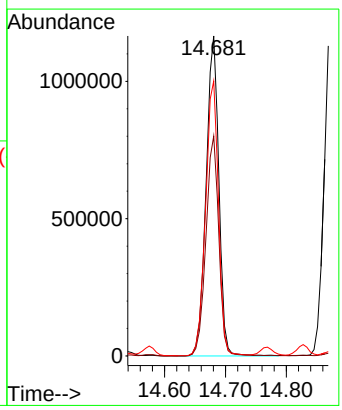
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

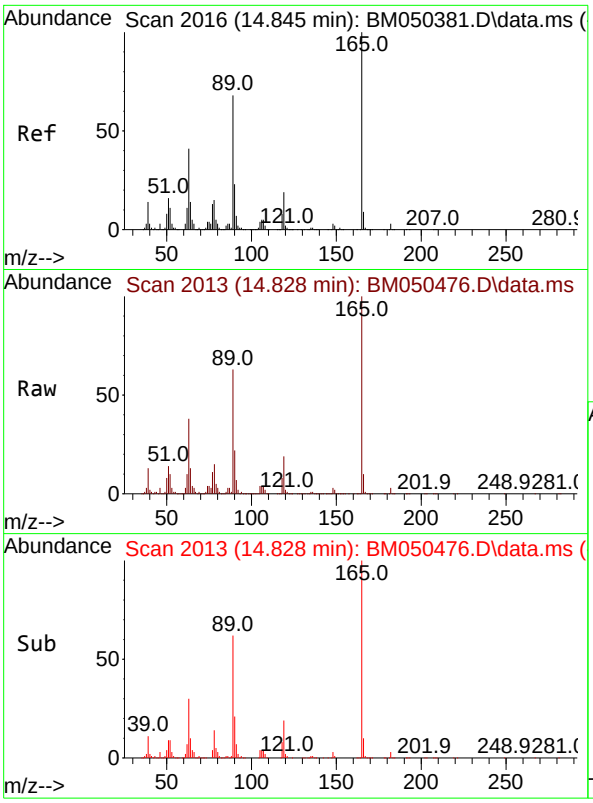


#56
4-Nitrophenol
Concen: 106.789 ng
RT: 14.681 min Scan# 1988
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:139 Resp: 1695556

Ion	Ratio	Lower	Upper
139	100		
109	68.7	56.5	96.5
65	86.0	76.4	116.4

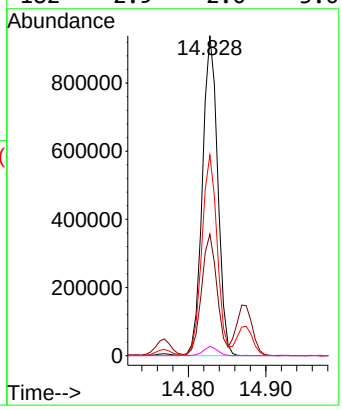




#57
2,4-Dinitrotoluene
Concen: 49.227 ng
RT: 14.828 min Scan# 2(
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:165 Resp: 128129

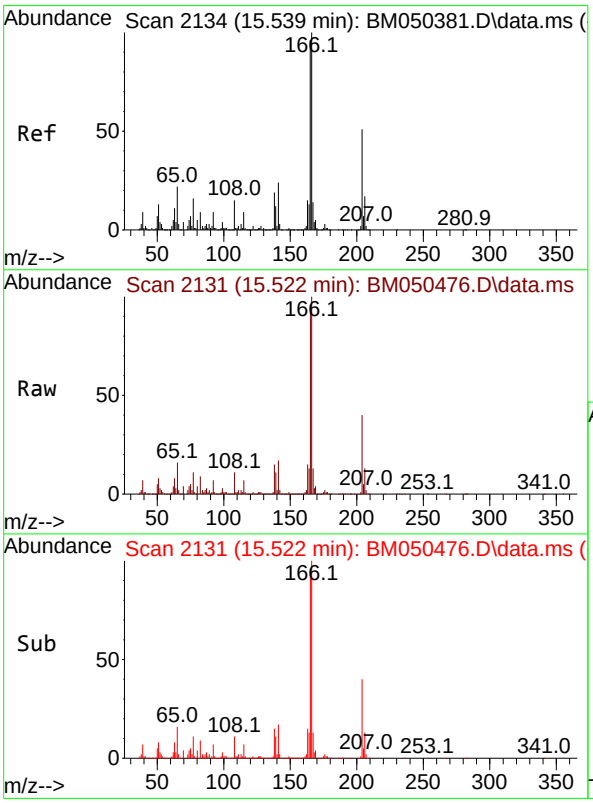
Ion	Ratio	Lower	Upper
165	100		
63	38.0	32.5	48.7
89	62.8	54.0	81.0
182	2.9	2.0	3.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED

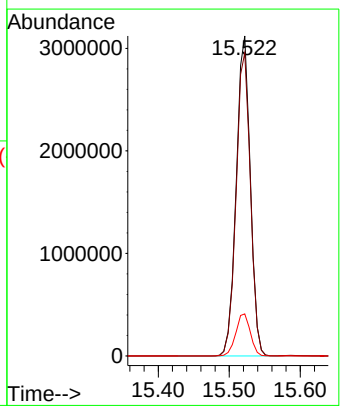
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

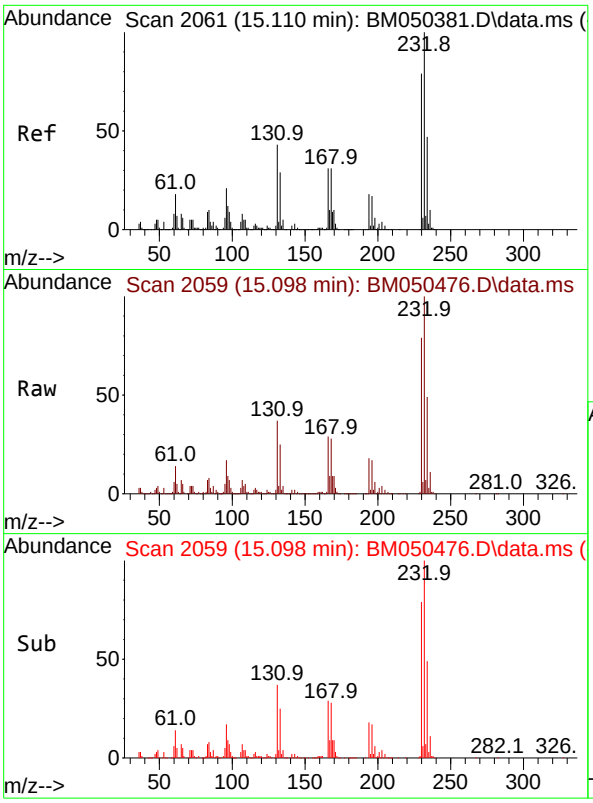


#58
Fluorene
Concen: 45.471 ng
RT: 15.522 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:166 Resp: 4307700

Ion	Ratio	Lower	Upper
166	100		
165	94.7	77.0	115.6
167	13.2	10.9	16.3

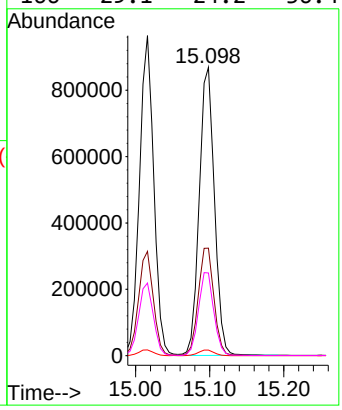




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.459 ng
RT: 15.098 min Scan# 2
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:232 Resp: 123985

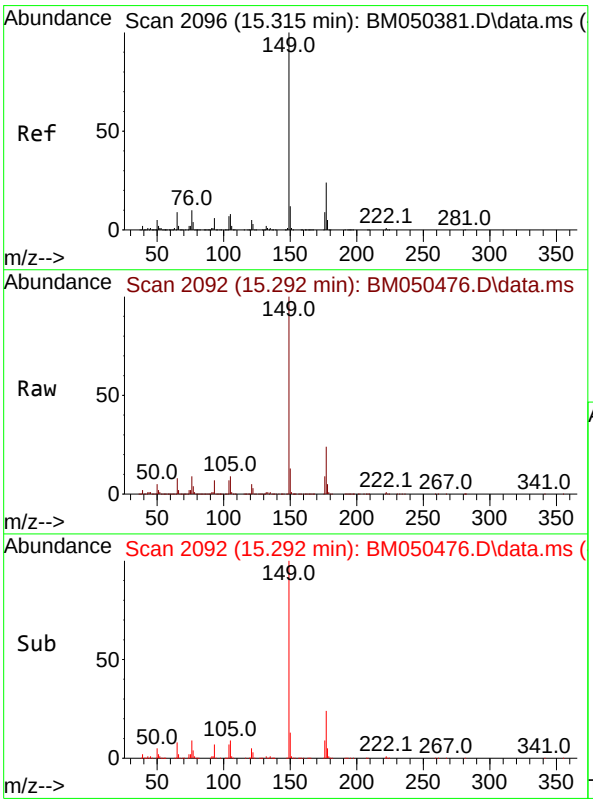
Ion	Ratio	Lower	Upper
232	100		
131	38.5	33.4	50.0
130	2.1	1.8	2.6
166	29.1	24.2	36.4



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

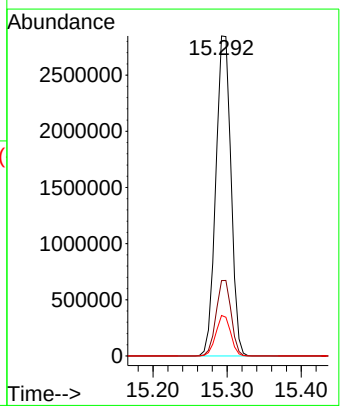
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

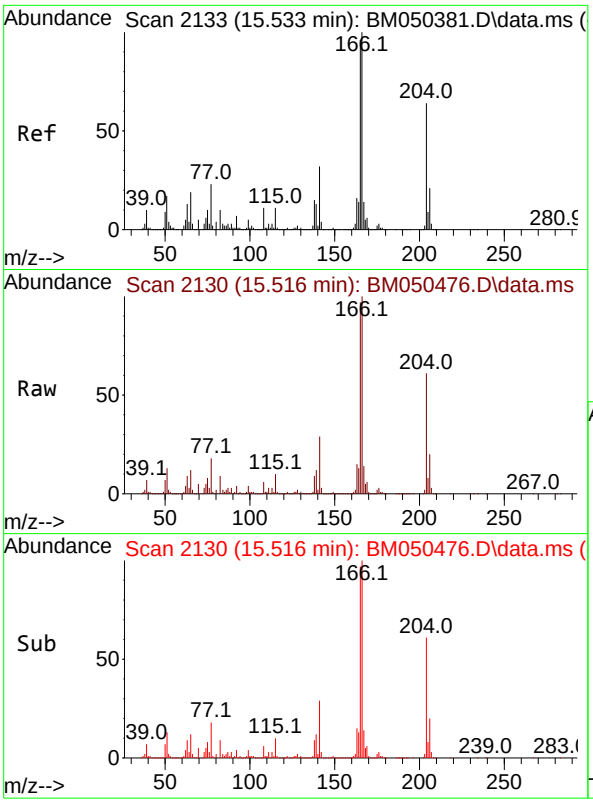


#60
Diethylphthalate
Concen: 46.776 ng
RT: 15.292 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:149 Resp: 4040195

Ion	Ratio	Lower	Upper
149	100		
177	23.6	18.8	28.2
150	12.6	9.8	14.8





#61
4-Chlorophenyl-phenylether
Concen: 45.997 ng
RT: 15.516 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

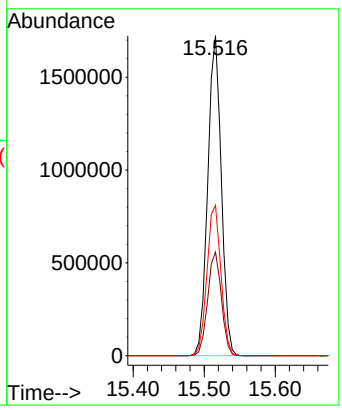
Instrument :
BNA_M
ClientSampleId :
PB168885BS

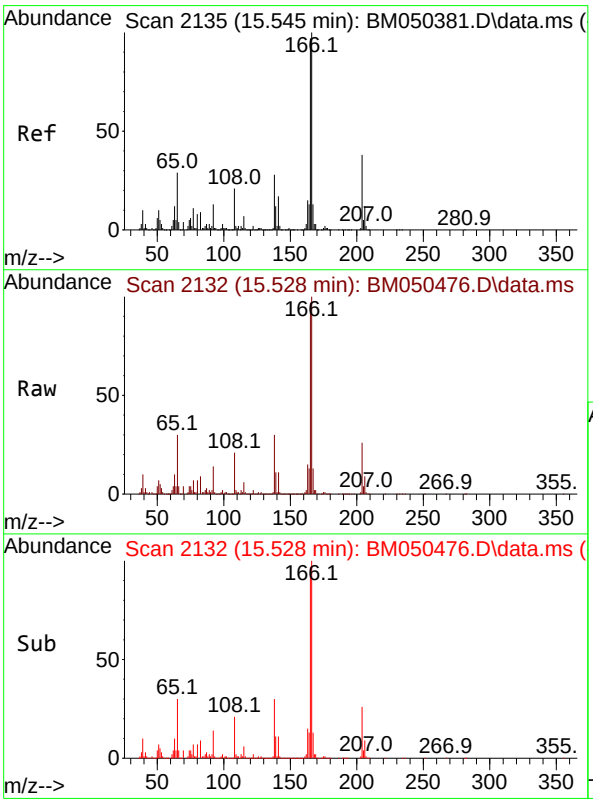
Tgt Ion:204 Resp: 227850

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.6	39.8
141	47.0	39.9	59.9

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

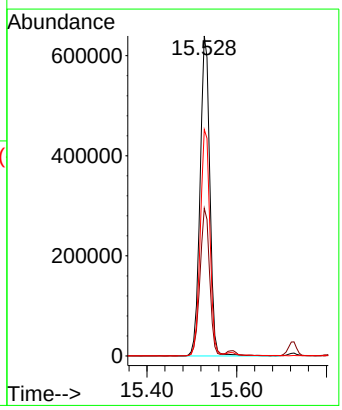


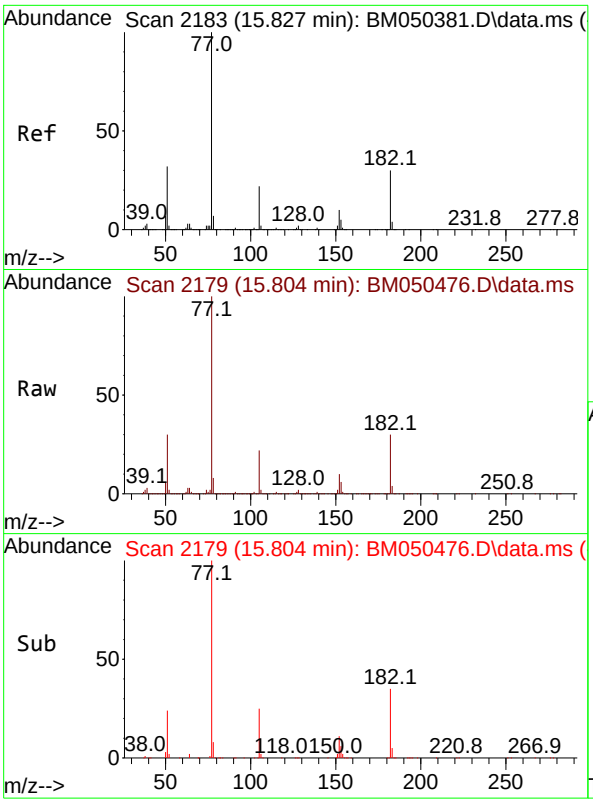


#62
4-Nitroaniline
Concen: 45.527 ng
RT: 15.528 min Scan# 2132
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:138 Resp: 963365

Ion	Ratio	Lower	Upper
138	100		
92	46.2	24.5	64.5
108	70.8	52.5	92.5

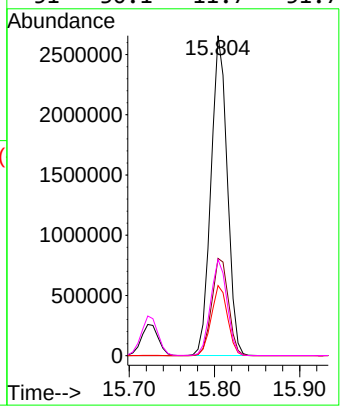




#63
Azobenzene
Concen: 44.475 ng
RT: 15.804 min Scan# 2
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion: 77 Resp: 352737

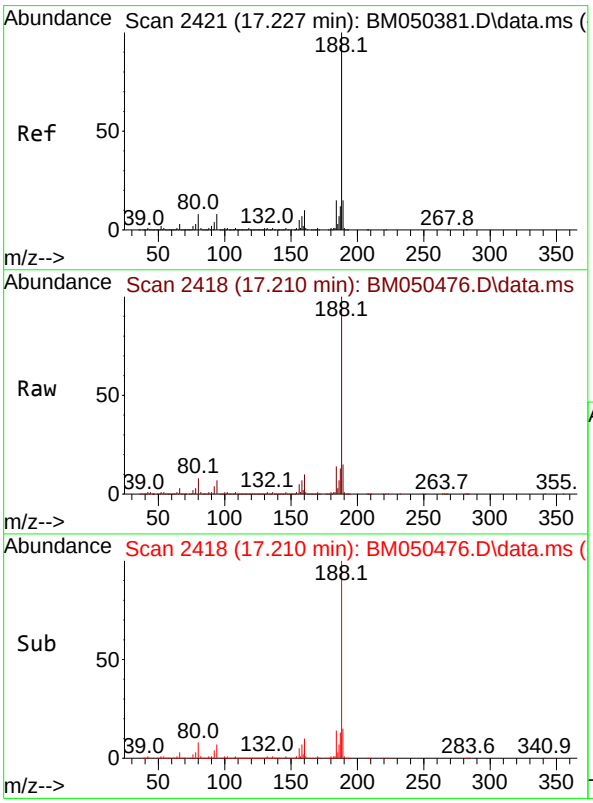
Ion	Ratio	Lower	Upper
77	100		
182	30.4	10.0	50.0
105	21.9	2.0	42.0
51	30.1	11.7	51.7



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

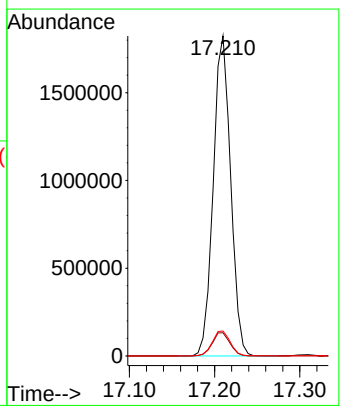
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

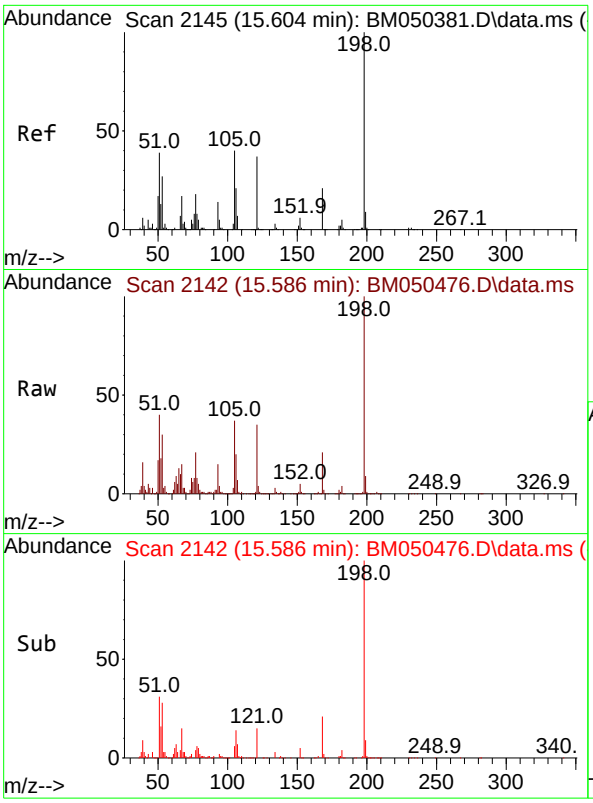


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.210 min Scan# 2418
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:188 Resp: 2583210

Ion	Ratio	Lower	Upper
188	100		
94	7.2	6.0	9.0
80	7.8	6.5	9.7

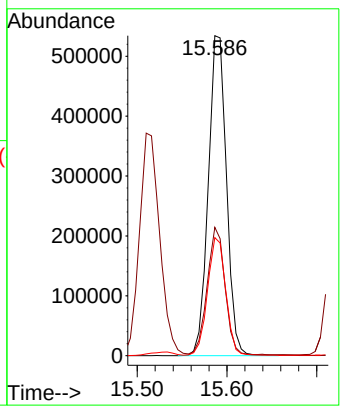




#65
4,6-Dinitro-2-methylphenol
Concen: 53.277 ng
RT: 15.586 min Scan# 21
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:198 Resp: 75111

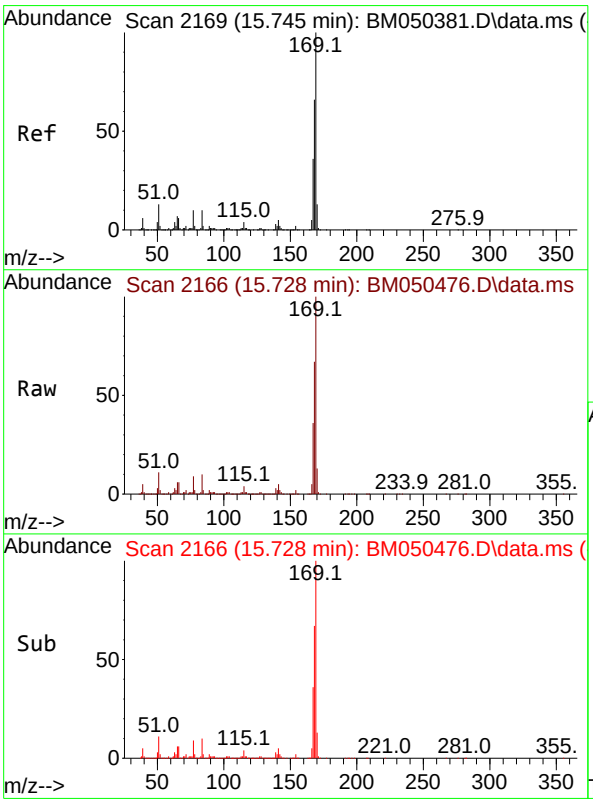
Ion	Ratio	Lower	Upper
198	100		
51	40.1	26.6	66.6
105	36.9	20.9	60.9



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

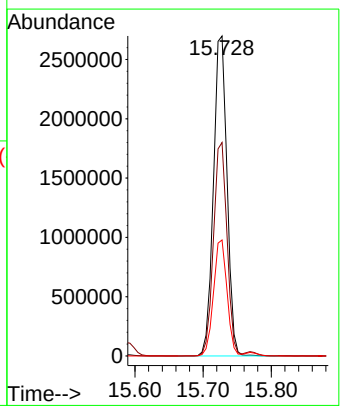
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

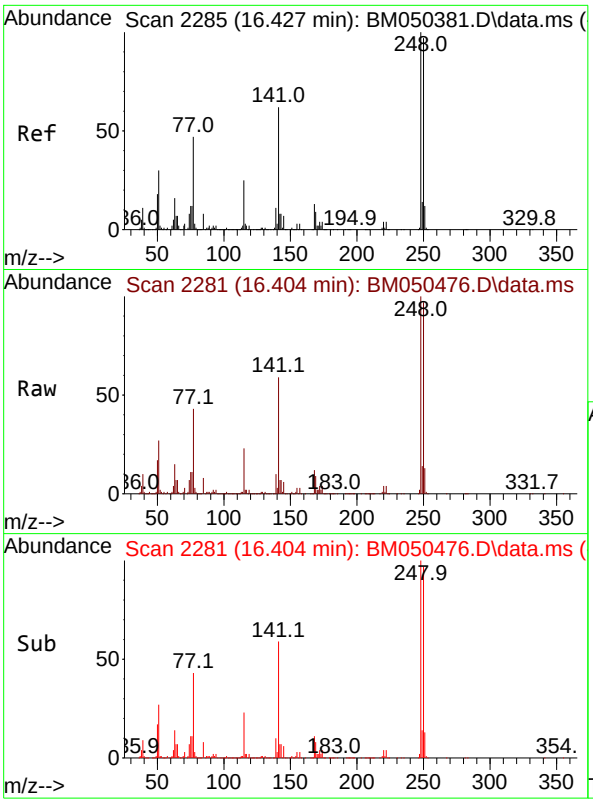


#66
n-Nitrosodiphenylamine
Concen: 46.260 ng
RT: 15.728 min Scan# 2166
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:169 Resp: 3739335

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.2	28.7	43.1

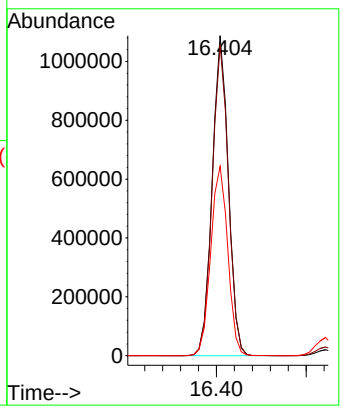




#67
4-Bromophenyl-phenylether
Concen: 47.884 ng
RT: 16.404 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:248 Resp: 136281

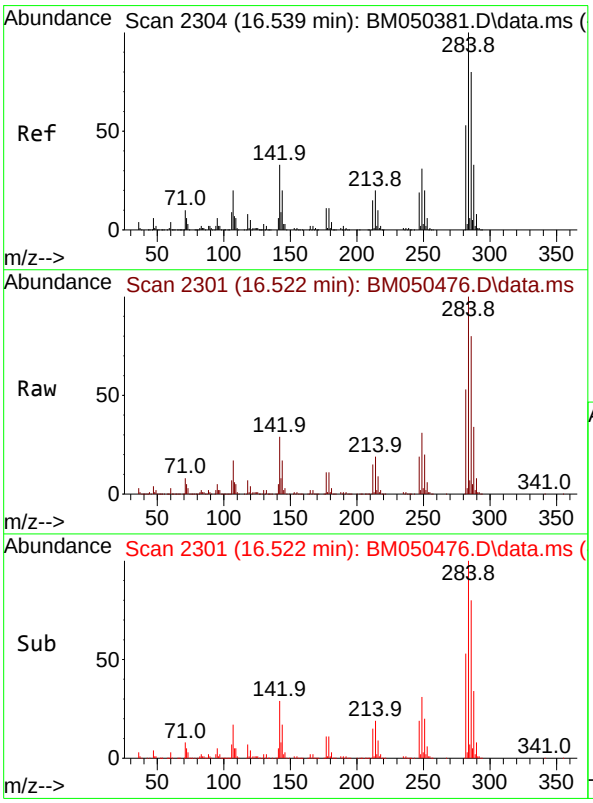
Ion	Ratio	Lower	Upper
248	100		
250	97.1	77.9	116.9
141	59.1	49.7	74.5



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

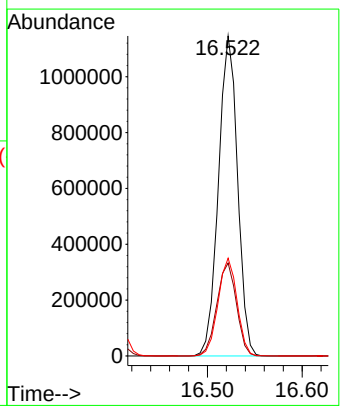
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

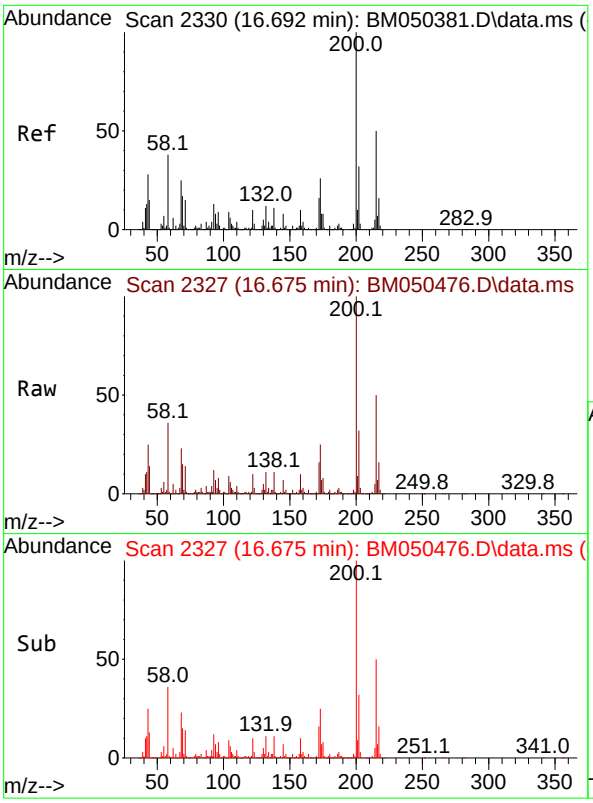


#68
Hexachlorobenzene
Concen: 47.836 ng
RT: 16.522 min Scan# 2301
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:284 Resp: 1607982

Ion	Ratio	Lower	Upper
284	100		
142	29.1	26.8	40.2
249	30.6	24.5	36.7





#69
Atrazine
Concen: 50.656 ng
RT: 16.675 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

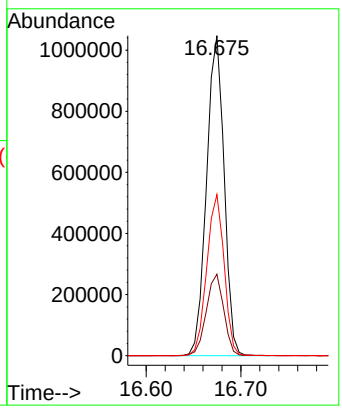
Tgt Ion:200 Resp: 134454

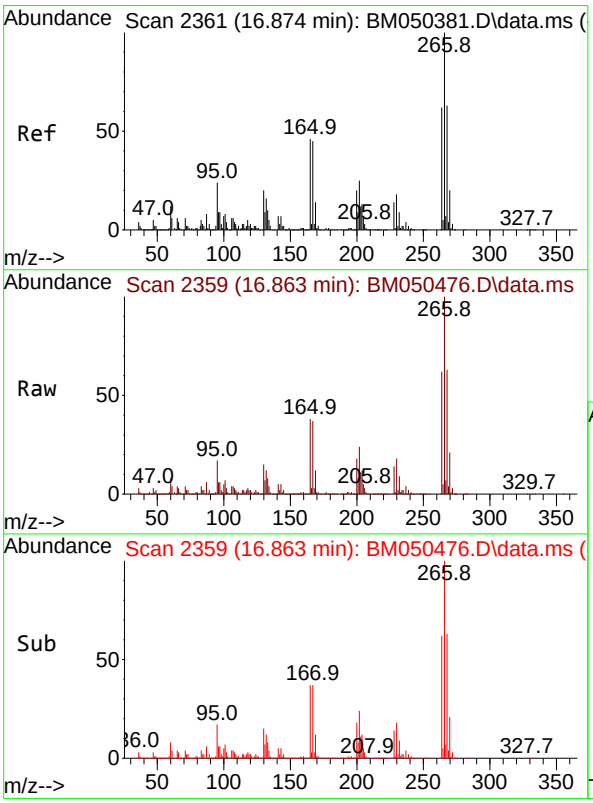
Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.6	45.6
215	50.4	29.6	69.6

Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

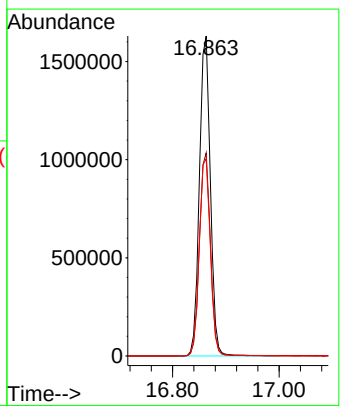


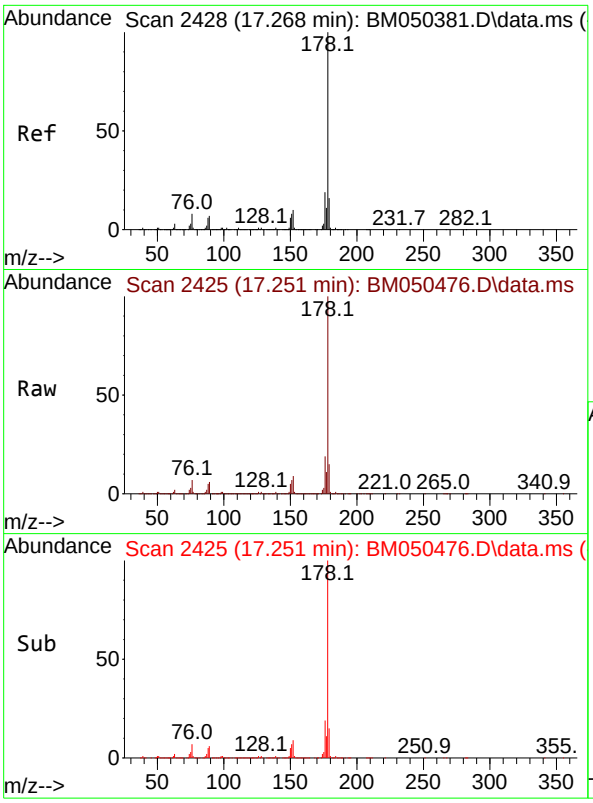


#70
Pentachlorophenol
Concen: 110.974 ng
RT: 16.863 min Scan# 2359
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:266 Resp: 2322182

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.5	75.7
264	61.7	49.9	74.9

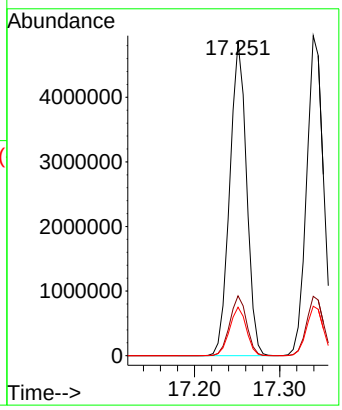




#71
Phenanthrene
Concen: 45.657 ng
RT: 17.251 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:178 Resp: 667385

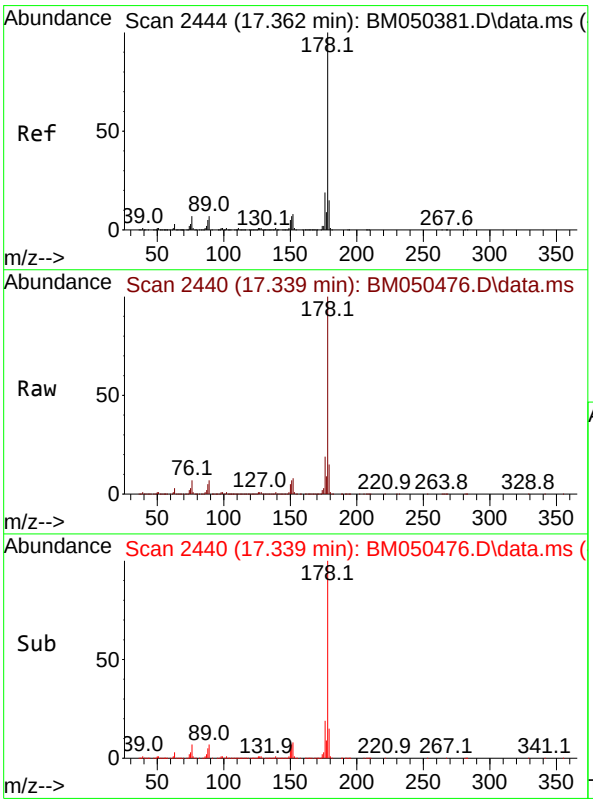
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.0
179	15.4	12.5	18.7



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

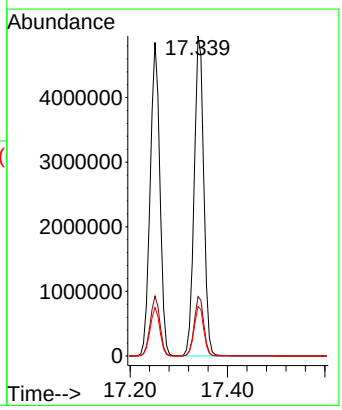
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

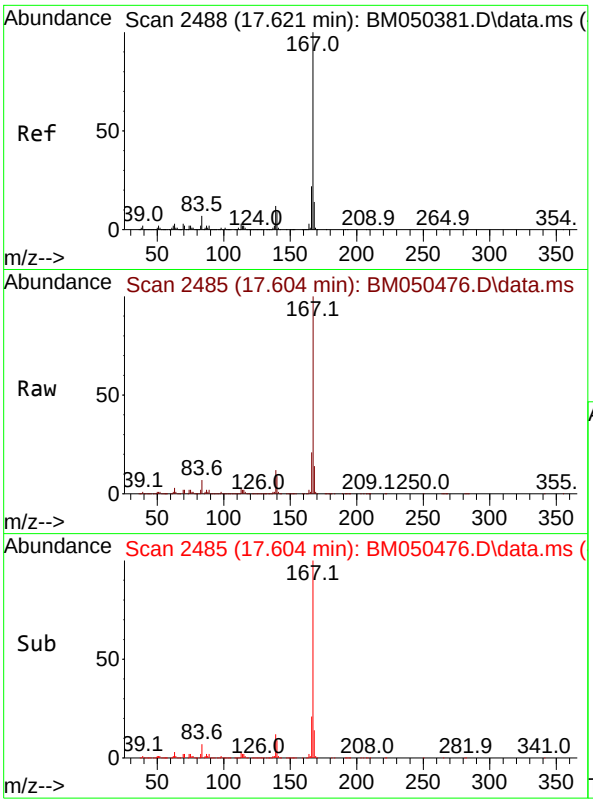


#72
Anthracene
Concen: 46.687 ng
RT: 17.339 min Scan# 2440
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:178 Resp: 6792935

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.9	22.3
179	15.5	12.2	18.4

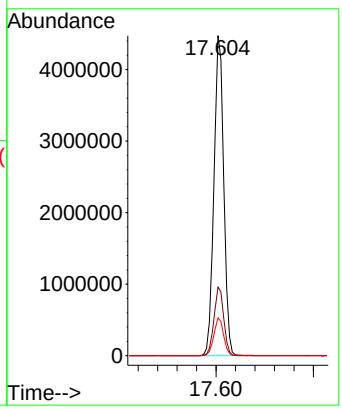




#73
Carbazole
Concen: 47.082 ng
RT: 17.604 min Scan# 24
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

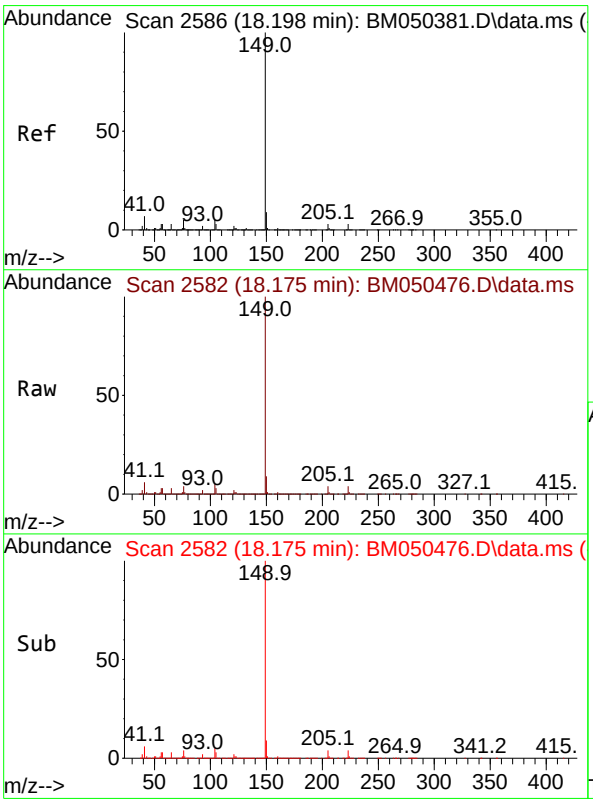
Tgt Ion:167 Resp: 619842

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.2	25.8
139	11.8	9.9	14.9



Instrument :
BNA_M
ClientSampleId :
PB168885BS

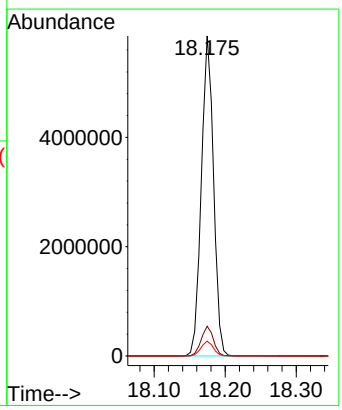
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

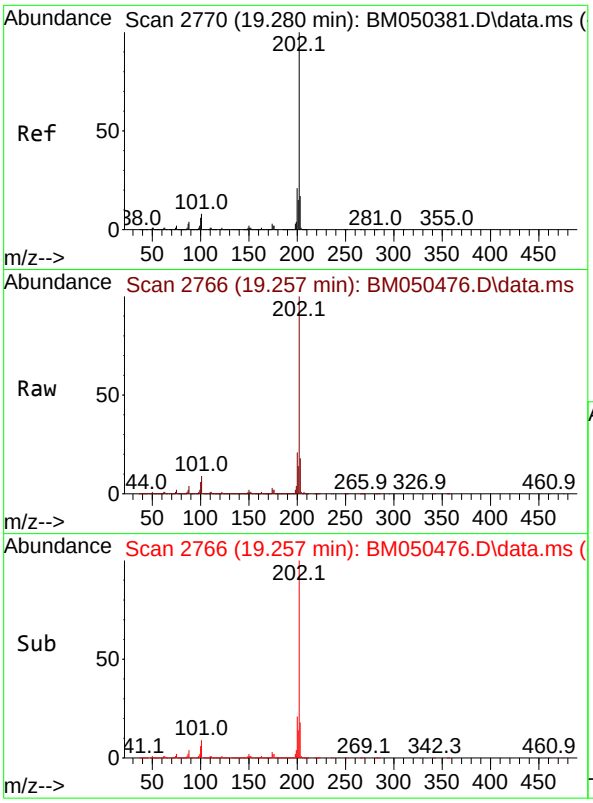


#74
Di-n-butylphthalate
Concen: 48.651 ng
RT: 18.175 min Scan# 2582
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:149 Resp: 7010527

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.6	3.9	5.9

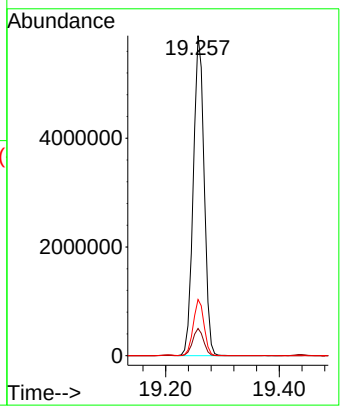




#75
Fluoranthene
Concen: 49.281 ng
RT: 19.257 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:202 Resp: 7831040

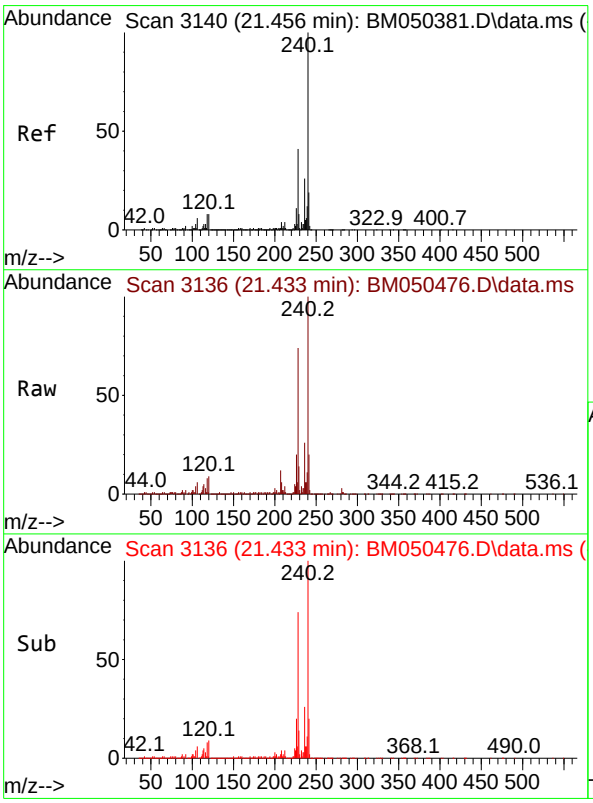
Ion	Ratio	Lower	Upper
202	100		
101	8.5	0.0	28.3
203	17.5	0.0	37.2



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

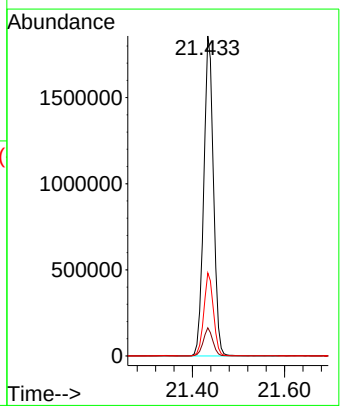
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

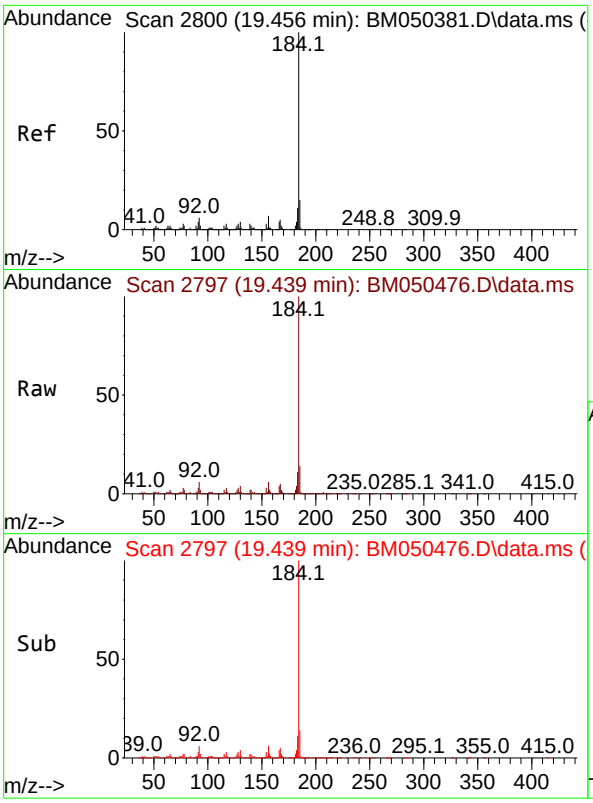


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.433 min Scan# 3136
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:240 Resp: 2737581

Ion	Ratio	Lower	Upper
240	100		
120	8.8	6.7	10.1
236	26.0	20.7	31.1

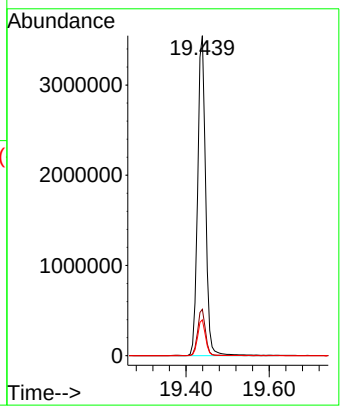




#77
Benzidine
Concen: 67.729 ng
RT: 19.439 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:184 Resp: 472926

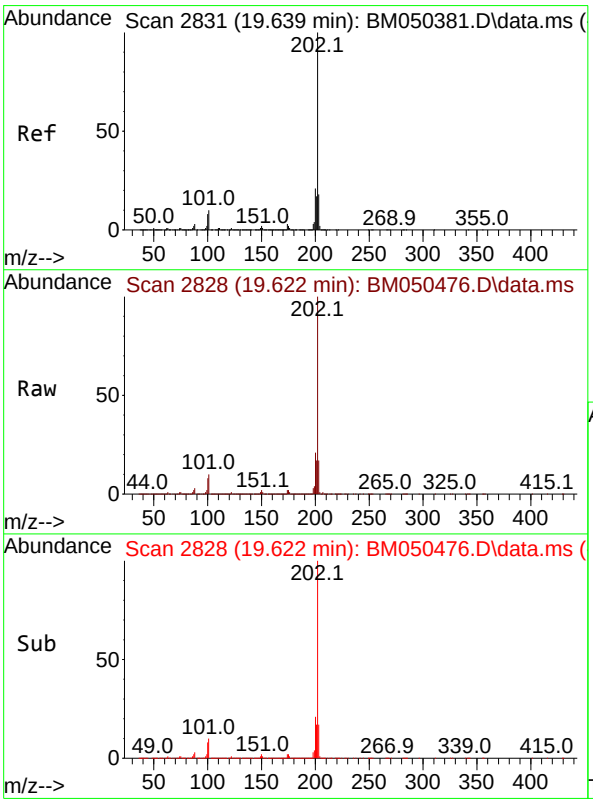
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.7	17.5
183	11.2	9.0	13.6



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

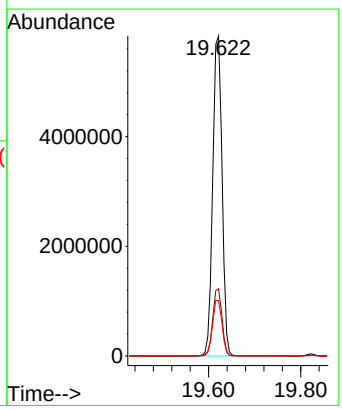
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

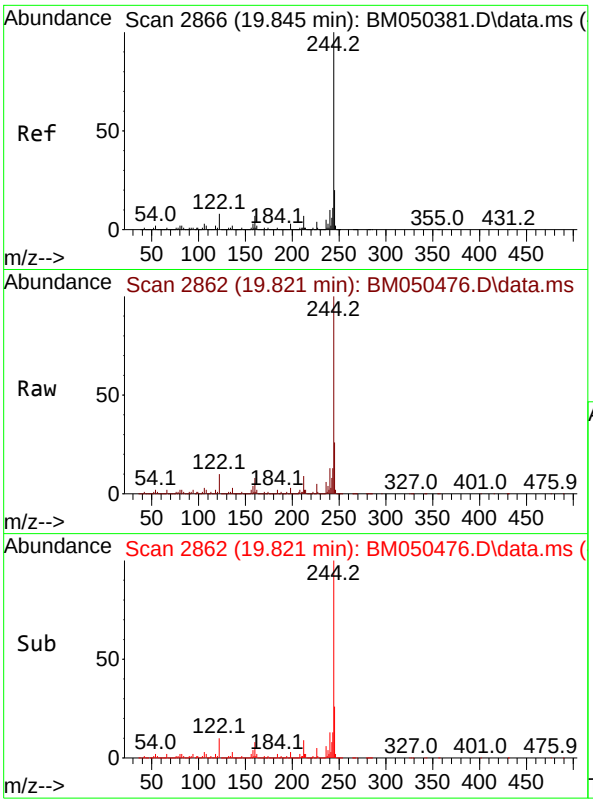


#78
Pyrene
Concen: 46.715 ng
RT: 19.622 min Scan# 2828
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:202 Resp: 8190535

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.2	14.1	21.1

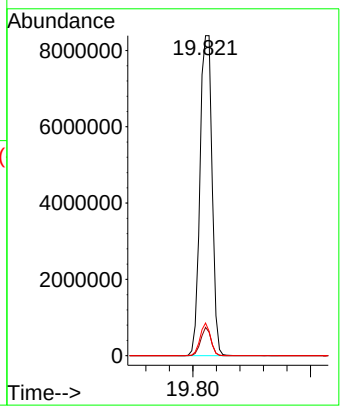




#79
Terphenyl-d14
Concen: 76.774 ng
RT: 19.821 min Scan# 2
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:244 Resp:1194543

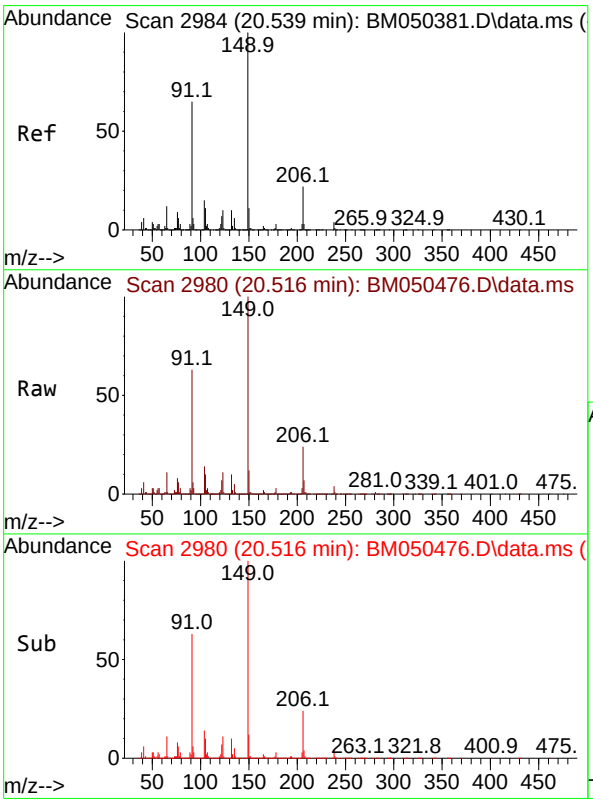
Ion	Ratio	Lower	Upper
244	100		
212	8.8	5.7	8.5#
122	10.2	6.2	9.2#



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

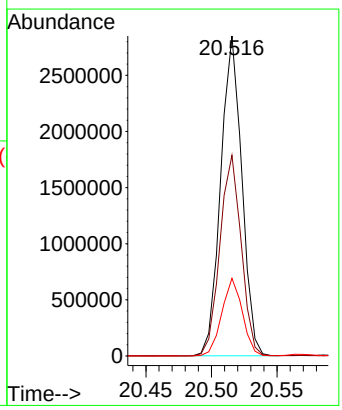
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

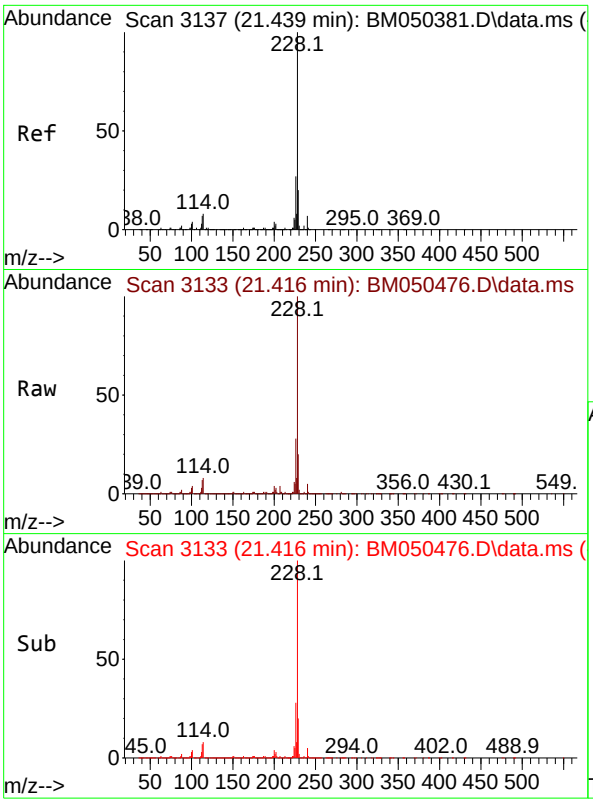


#80
Butylbenzylphthalate
Concen: 55.157 ng
RT: 20.516 min Scan# 2980
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:149 Resp: 3188686

Ion	Ratio	Lower	Upper
149	100		
91	62.7	51.6	77.4
206	24.2	17.8	26.8

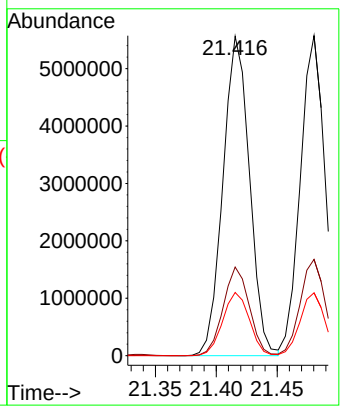




#81
Benzo(a)anthracene
Concen: 47.395 ng
RT: 21.416 min Scan# 3
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:228 Resp: 845398

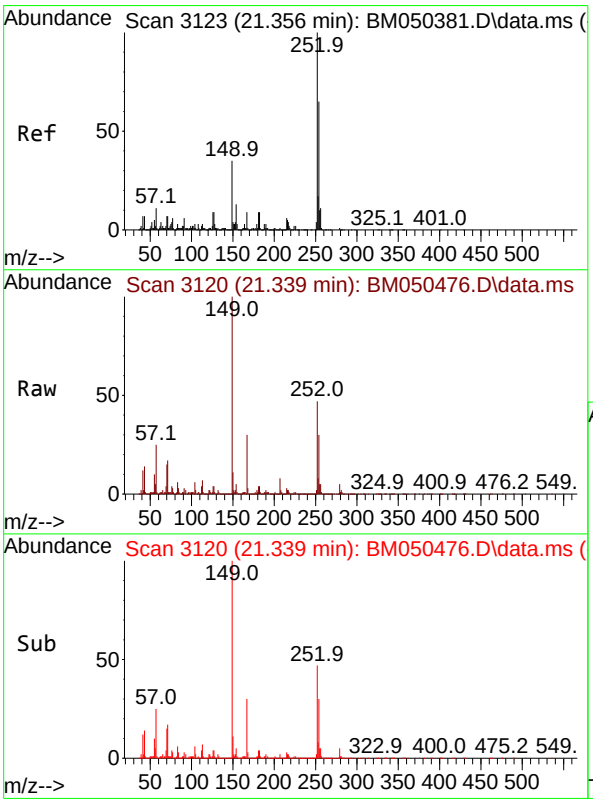
Ion	Ratio	Lower	Upper
228	100		
226	27.7	21.8	32.8
229	19.8	16.0	24.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

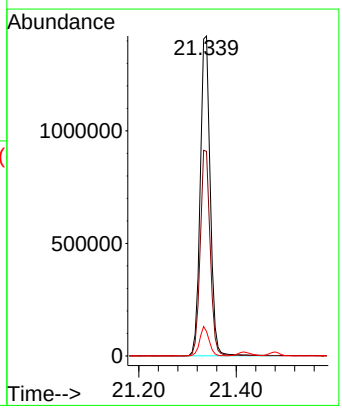
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

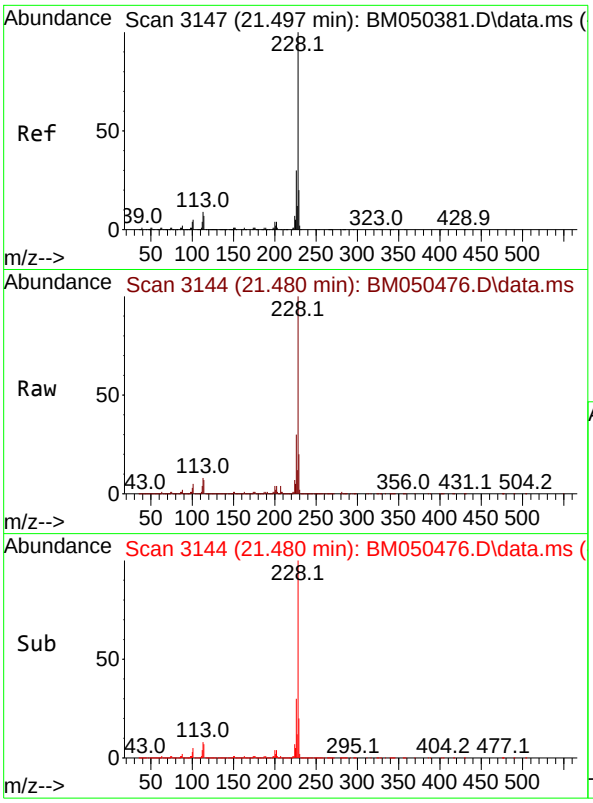


#82
3,3'-Dichlorobenzidine
Concen: 33.631 ng
RT: 21.339 min Scan# 3120
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:252 Resp: 2023008

Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.7	77.5
126	7.6	7.3	10.9

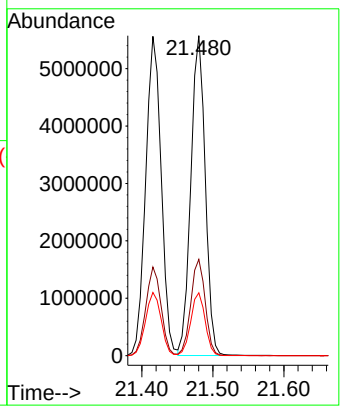




#83
Chrysene
Concen: 46.827 ng
RT: 21.480 min Scan# 3
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:228 Resp: 787839

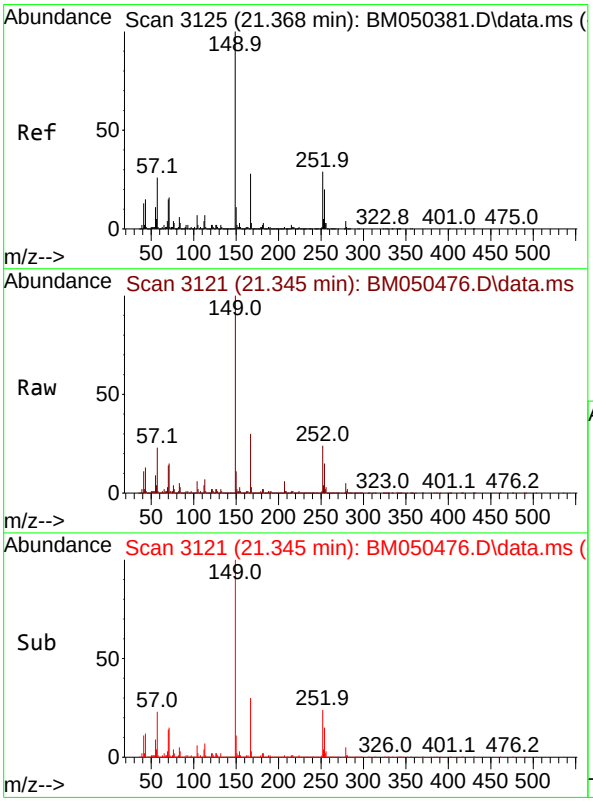
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.2	36.4
229	19.7	15.8	23.6



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

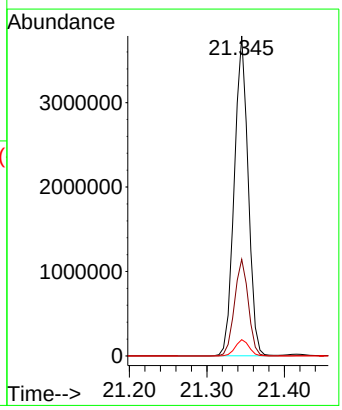
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

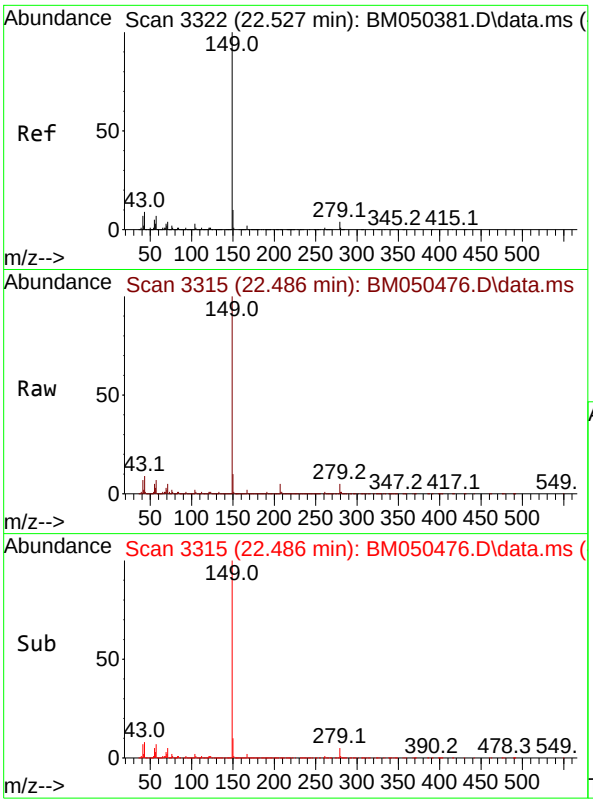


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.429 ng
RT: 21.345 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:149 Resp: 4719847

Ion	Ratio	Lower	Upper
149	100		
167	30.2	22.7	34.1
279	5.1	3.5	5.3

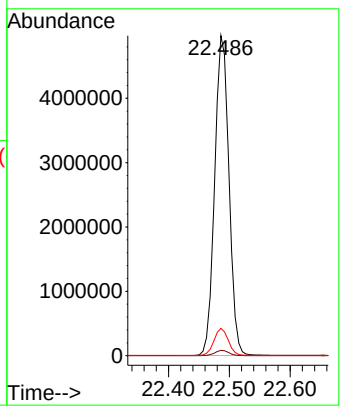




#85
Di-n-octyl phthalate
Concen: 56.350 ng
RT: 22.486 min Scan# 3
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:149 Resp: 809963

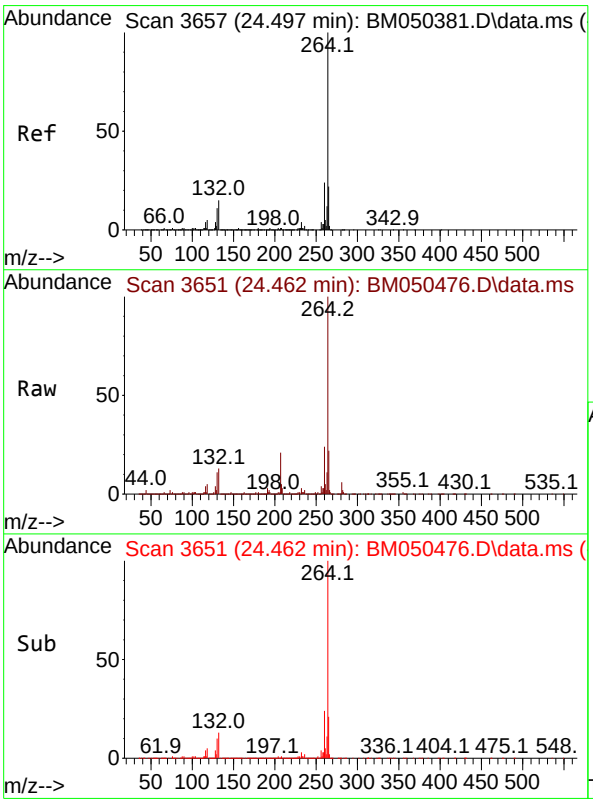
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.5	7.7	11.5



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

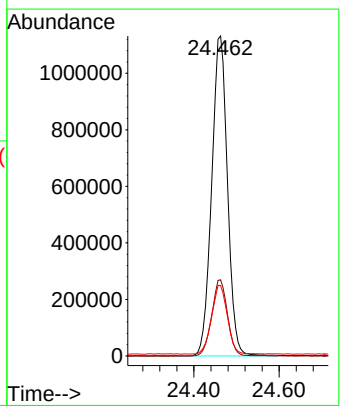
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

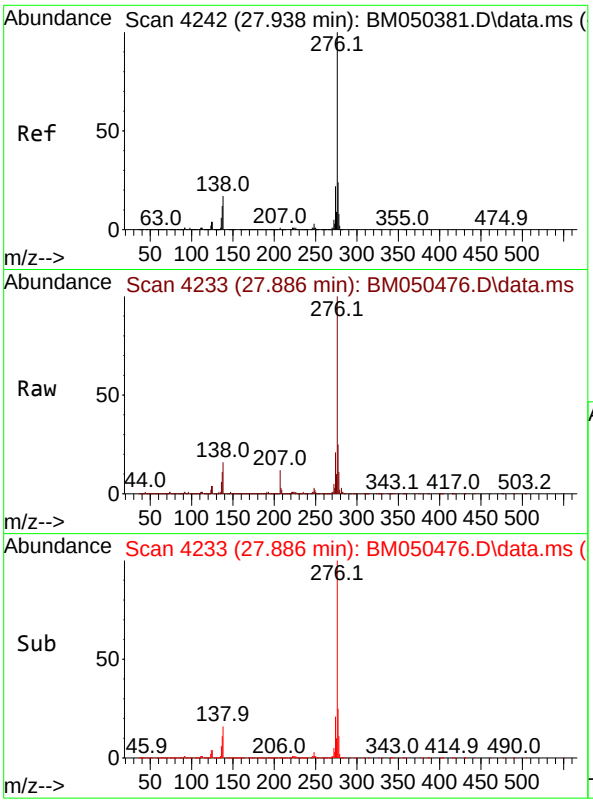


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.462 min Scan# 3651
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:264 Resp: 2912638

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.2	28.8
265	22.0	17.8	26.6

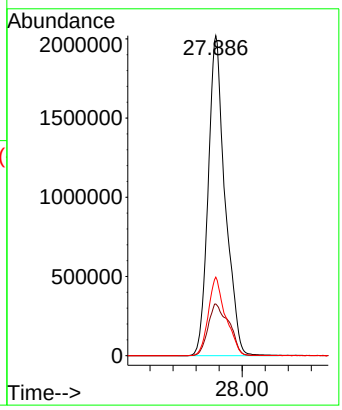




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.702 ng
RT: 27.886 min Scan# 4
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:276 Resp:1029265

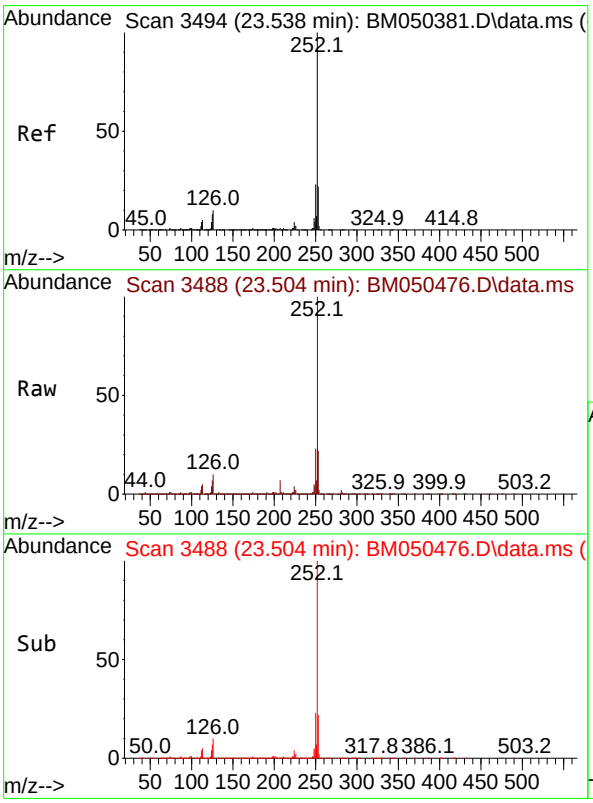
Ion	Ratio	Lower	Upper
276	100		
138	20.0	17.0	25.6
277	25.1	20.0	30.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations APPROVED

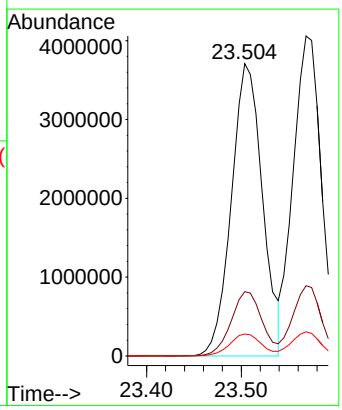
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

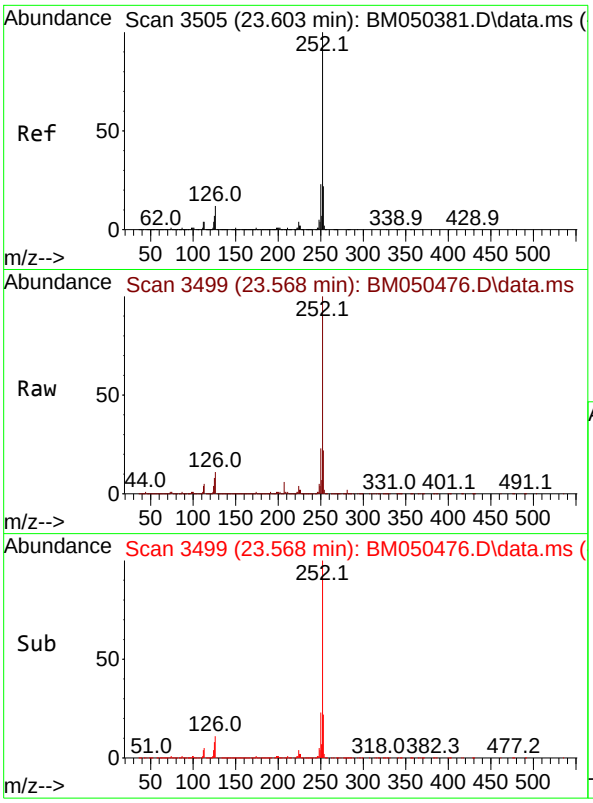


#88
Benzo(b)fluoranthene
Concen: 47.206 ng
RT: 23.504 min Scan# 3488
Delta R.T. 0.000 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:252 Resp: 8457217

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.6
125	7.5	6.3	9.5

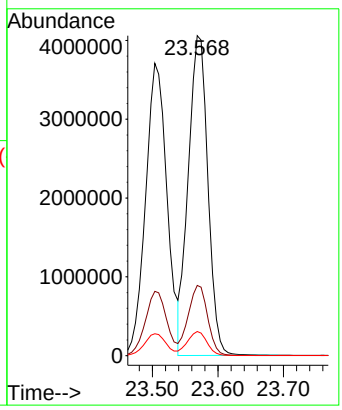




#89
Benzo(k)fluoranthene
Concen: 45.301 ng
RT: 23.568 min Scan# 34
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:252 Resp: 842135

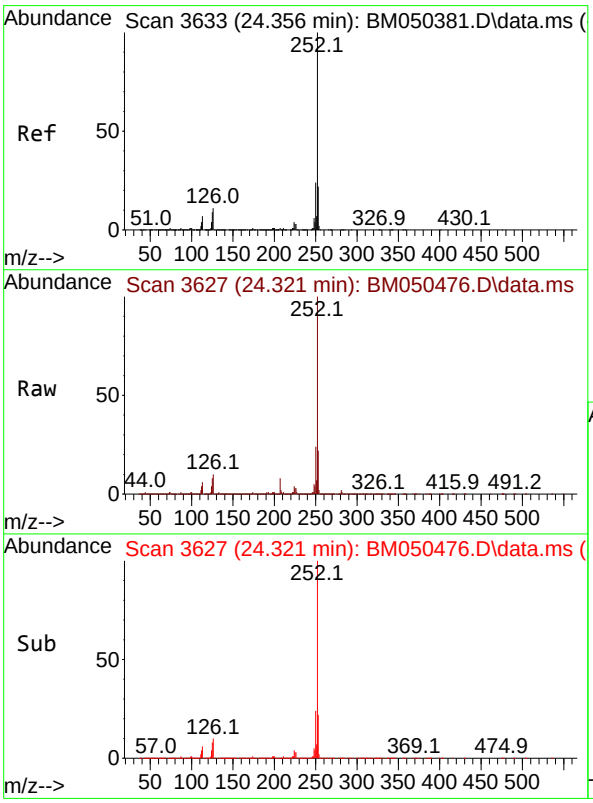
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	7.5	6.2	9.2



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

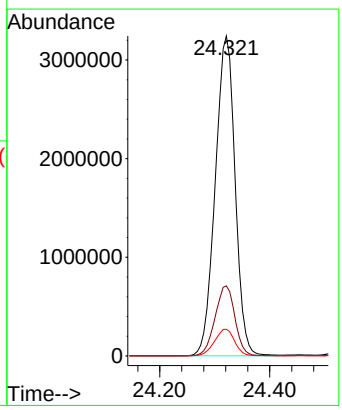
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025

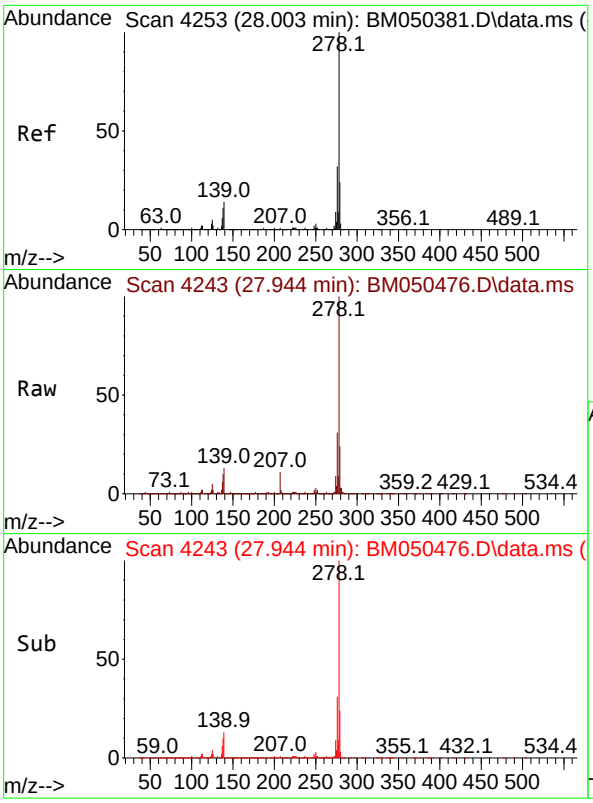


#90
Benzo(a)pyrene
Concen: 48.457 ng
RT: 24.321 min Scan# 3627
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:252 Resp: 8126766

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.6
125	8.3	7.0	10.4

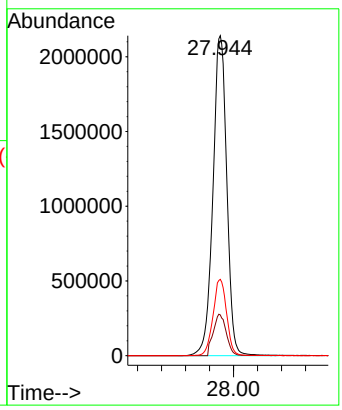




#91
Dibenzo(a,h)anthracene
Concen: 49.191 ng
RT: 27.944 min Scan# 4
Delta R.T. 0.001 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:278 Resp: 857901

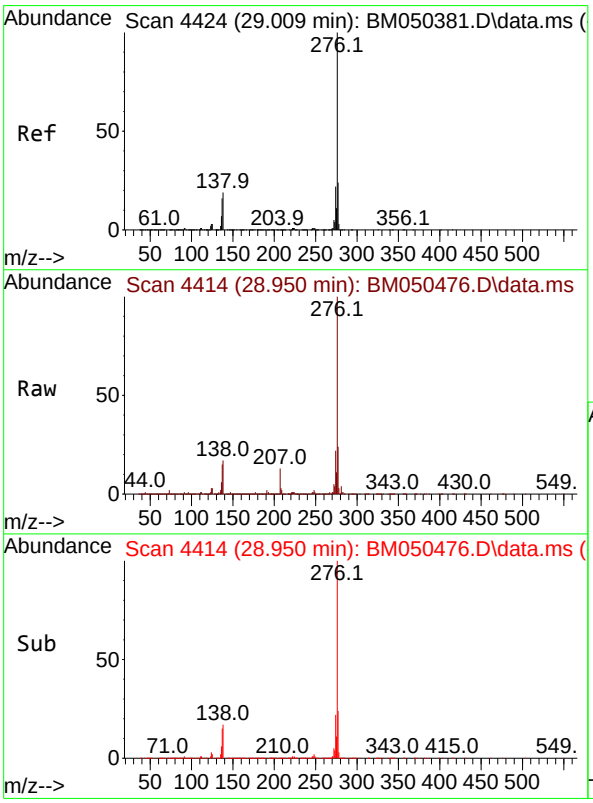
Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.8	16.2
279	23.9	19.4	29.0



Instrument :
BNA_M
ClientSampleId :
PB168885BS

Manual Integrations
APPROVED

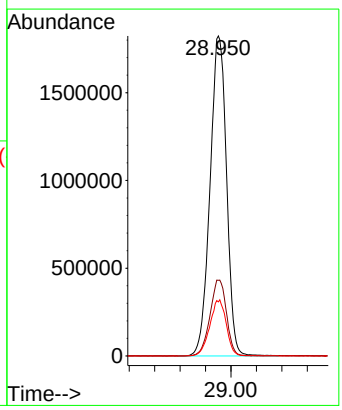
Reviewed By :Rahul Chavli 07/18/2025
Supervised By :Jagrut Upadhyay 07/18/2025



#92
Benzo(g,h,i)perylene
Concen: 49.851 ng
RT: 28.950 min Scan# 4414
Delta R.T. 0.006 min
Lab File: BM050476.D
Acq: 17 Jul 2025 15:57

Tgt Ion:276 Resp: 8216926

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.1	28.7
138	16.9	14.9	22.3



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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711MS	SDG No.:	Q2592
Lab Sample ID:	Q2592-02MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143122.D	1	07/16/25 10:14	07/16/25 22:09	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	290		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		5.30	50.0	ug/L
95-48-7	2-Methylphenol	390		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	390		11.0	100	ug/L
67-72-1	Hexachloroethane	370		6.50	50.0	ug/L
98-95-3	Nitrobenzene	430		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	390		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	440		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	430		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	460		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	430		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	750		15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	99.9		23 - 138	67%	SPK: 150
13127-88-3	Phenol-d6	95.0		10 - 134	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.6		67 - 132	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.4		52 - 132	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		44 - 137	84%	SPK: 150
1718-51-0	Terphenyl-d14	69.6		42 - 152	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.969			
1146-65-2	Naphthalene-d8	557000	8.245			
15067-26-2	Acenaphthene-d10	280000	10.004			
1517-22-2	Phenanthrene-d10	442000	11.492			
1719-03-5	Chrysene-d12	237000	14.127			
1520-96-3	Perylene-d12	284000	15.633			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711MS	SDG No.:	Q2592
Lab Sample ID:	Q2592-02MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143122.D	1	07/16/25 10:14	07/16/25 22:09	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_F\Data\BF071625\
Data File : BF143122.D
Acq On : 16 Jul 2025 22:09
Operator : RC/JU
Sample : Q2592-02MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 03:45:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	147018	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	556657	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	279575	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	442443	20.000	ng	0.00
76) Chrysene-d12	14.127	240	237238	20.000	ng	0.00
86) Perylene-d12	15.633	264	283551	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.610	112	929786	99.920	ng	0.02
7) Phenol-d6	6.586	99	1110845	94.970	ng	0.00
23) Nitrobenzene-d5	7.522	82	799375	80.558	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	314839	126.298	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	1438701	68.405	ng	0.00
79) Terphenyl-d14	13.074	244	1130292	69.646	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.034	88	152658	32.957	ng	# 89
3) Pyridine	3.716	79	345508	29.456	ng	99
4) n-Nitrosodimethylamine	3.651	42	218794	36.003	ng	99
6) Aniline	6.628	93	233504	14.176	ng	99
8) 2-Chlorophenol	6.751	128	367790	39.339	ng	100
9) Benzaldehyde	6.516	77	184618	20.714	ng	99
10) Phenol	6.604	94	447469	35.338	ng	99
11) bis(2-Chloroethyl)ether	6.698	93	371882	37.937	ng	99
12) 1,3-Dichlorobenzene	6.910	146	374742	35.480	ng	99
13) 1,4-Dichlorobenzene	6.986	146	379205	35.686	ng	100
14) 1,2-Dichlorobenzene	7.139	146	367410	36.258	ng	100
15) Benzyl Alcohol	7.098	79	356998	41.191	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.239	45	669145	37.031	ng	99
17) 2-Methylphenol	7.210	107	318220	39.442	ng	99
18) Hexachloroethane	7.486	117	128982	37.286	ng	97
19) n-Nitroso-di-n-propyla...	7.375	70	284422	39.690	ng	99
20) 3+4-Methylphenols	7.363	107	384937	38.905	ng	92
22) Acetophenone	7.369	105	517043	38.531	ng	94
24) Nitrobenzene	7.545	77	408070	42.599	ng	97
25) Isophorone	7.781	82	781406	40.742	ng	99
26) 2-Nitrophenol	7.857	139	167379	44.075	ng	98
27) 2,4-Dimethylphenol	7.892	122	365844	41.098	ng	99
28) bis(2-Chloroethoxy)met...	7.986	93	475295	40.866	ng	99
29) 2,4-Dichlorophenol	8.098	162	309908	42.554	ng	99
30) 1,2,4-Trichlorobenzene	8.186	180	318849	38.578	ng	99
31) Naphthalene	8.269	128	1074621	38.875	ng	100
33) 4-Chloroaniline	8.304	127	61328	5.517	ng	99
34) Hexachlorobutadiene	8.392	225	192967	39.039	ng	99
35) Caprolactam	8.663	113	80291m	35.306	ng	
36) 4-Chloro-3-methylphenol	8.786	107	340734	42.002	ng	100
37) 2-Methylnaphthalene	8.963	142	671479	40.718	ng	99
38) 1-Methylnaphthalene	9.063	142	688897	40.277	ng	100
40) 1,2,4,5-Tetrachloroben...	9.127	216	318144	39.048	ng	99
41) Hexachlorocyclopentadiene	9.122	237	357351	79.110	ng	99
43) 2,4,6-Trichlorophenol	9.233	196	222112	43.874	ng	99
44) 2,4,5-Trichlorophenol	9.275	196	229401	43.216	ng	98

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143122.D
Acq On : 16 Jul 2025 22:09
Operator : RC/JU
Sample : Q2592-02MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 17 03:45:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.422	154	899008	40.322	ng		99
47) 2-Chloronaphthalene	9.451	162	655257	40.006	ng		99
48) 2-Nitroaniline	9.533	65	211327	43.531	ng		99
49) Acenaphthylene	9.869	152	1124808	41.213	ng		100
50) Dimethylphthalate	9.722	163	771833	43.883	ng		100
51) 2,6-Dinitrotoluene	9.780	165	157757	45.543	ng		90
52) Acenaphthene	10.039	154	647980	40.233	ng		99
53) 3-Nitroaniline	9.945	138	90479	23.807	ng		98
54) 2,4-Dinitrophenol	10.045	184	24192	26.899	ng	#	1
55) Dibenzofuran	10.210	168	979540	40.804	ng		99
56) 4-Nitrophenol	10.098	139	229295	75.913	ng		95
57) 2,4-Dinitrotoluene	10.180	165	200358	46.293	ng		99
58) Fluorene	10.551	166	727865	40.441	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.322	232	185838	44.054	ng		99
60) Diethylphthalate	10.422	149	727950	42.899	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	357337	41.424	ng		99
62) 4-Nitroaniline	10.557	138	148386	44.897	ng		100
63) Azobenzene	10.704	77	789208	42.054	ng		99
65) 4,6-Dinitro-2-methylph...	10.586	198	31475	24.093	ng		96
66) n-Nitrosodiphenylamine	10.657	169	657305	42.294	ng		98
67) 4-Bromophenyl-phenylether	11.033	248	217241	43.176	ng		98
68) Hexachlorobenzene	11.104	284	227007	42.521	ng		98
69) Atrazine	11.180	200	182643	45.934	ng		98
70) Pentachlorophenol	11.292	266	219946	75.092	ng		98
71) Phenanthrene	11.516	178	994655	41.656	ng		99
72) Anthracene	11.569	178	1004134	41.818	ng		100
73) Carbazole	11.716	167	889232	41.337	ng		100
74) Di-n-butylphthalate	12.051	149	945553	47.886	ng		100
75) Fluoranthene	12.704	202	914970	42.142	ng		99
77) Benzidine	12.816	184	152530	18.872	ng		99
78) Pyrene	12.933	202	910638	41.371	ng		100
80) Butylbenzylphthalate	13.545	149	215653	48.710	ng		97
81) Benzo(a)anthracene	14.121	228	695070	43.967	ng		100
82) 3,3'-Dichlorobenzidine	14.074	252	65861	14.346	ng		100
83) Chrysene	14.157	228	618809	42.501	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	310803	46.699	ng		99
85) Di-n-octyl phthalate	14.727	149	608309	48.177	ng		98
87) Indeno(1,2,3-cd)pyrene	17.180	276	915260	43.399	ng		99
88) Benzo(b)fluoranthene	15.192	252	700576	42.833	ng		99
89) Benzo(k)fluoranthene	15.221	252	711413	45.593	ng		100
90) Benzo(a)pyrene	15.574	252	698480	45.154	ng		99
91) Dibenzo(a,h)anthracene	17.198	278	737065	42.753	ng		99
92) Benzo(g,h,i)perylene	17.645	276	735081	41.822	ng		99

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

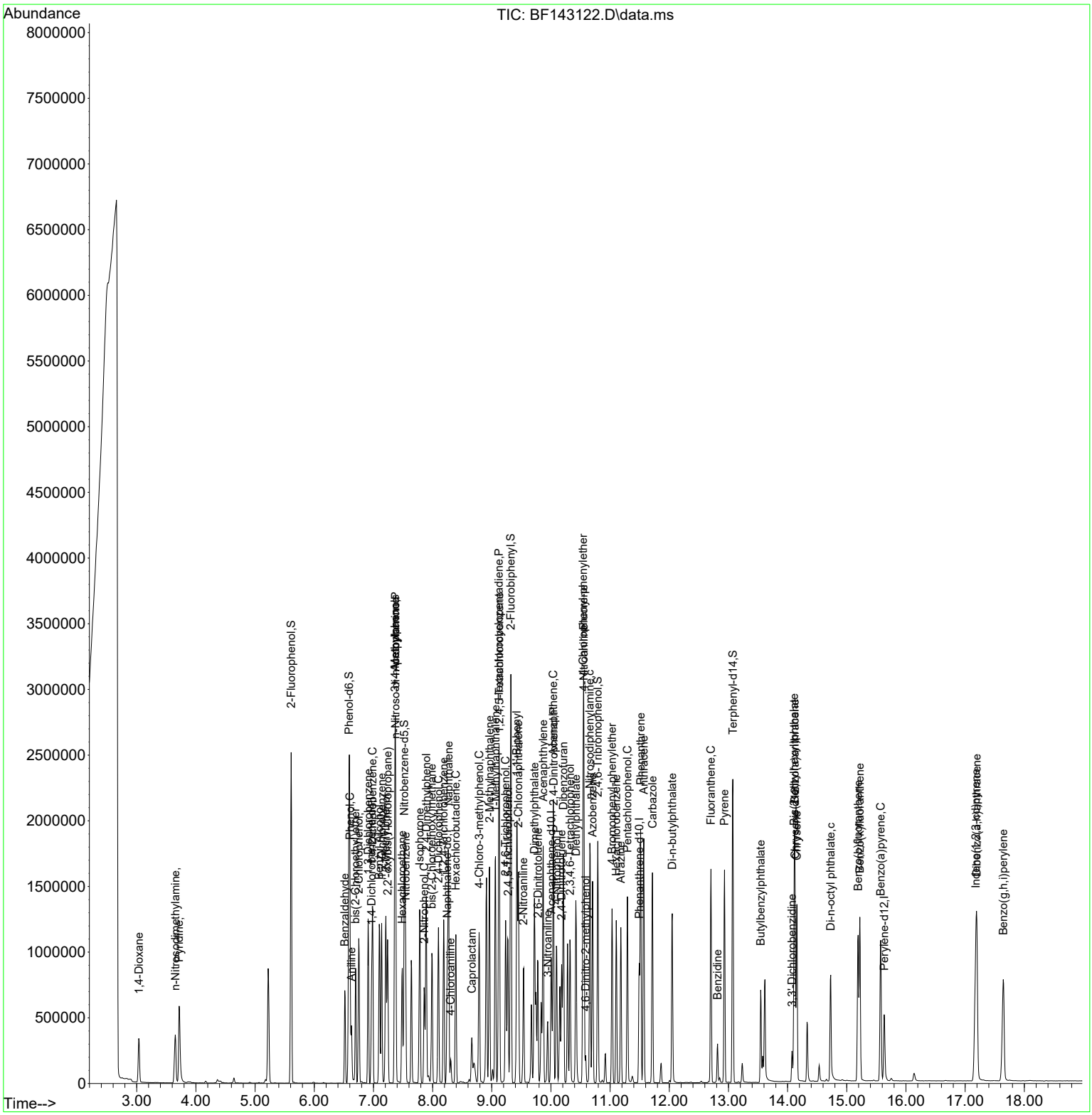
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143122.D
Acq On : 16 Jul 2025 22:09
Operator : RC/JU
Sample : Q2592-02MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

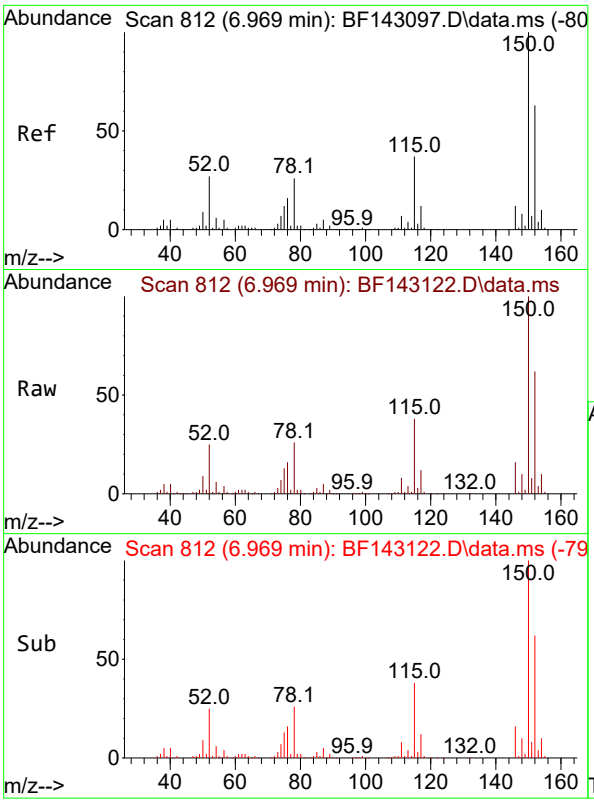
Quant Time: Jul 17 03:45:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

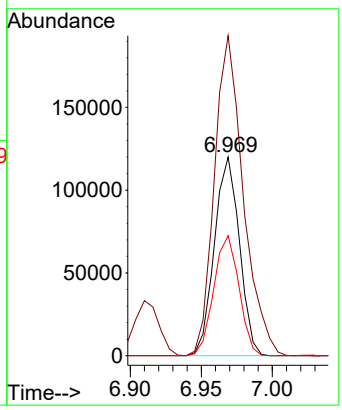




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:152 Resp: 14701

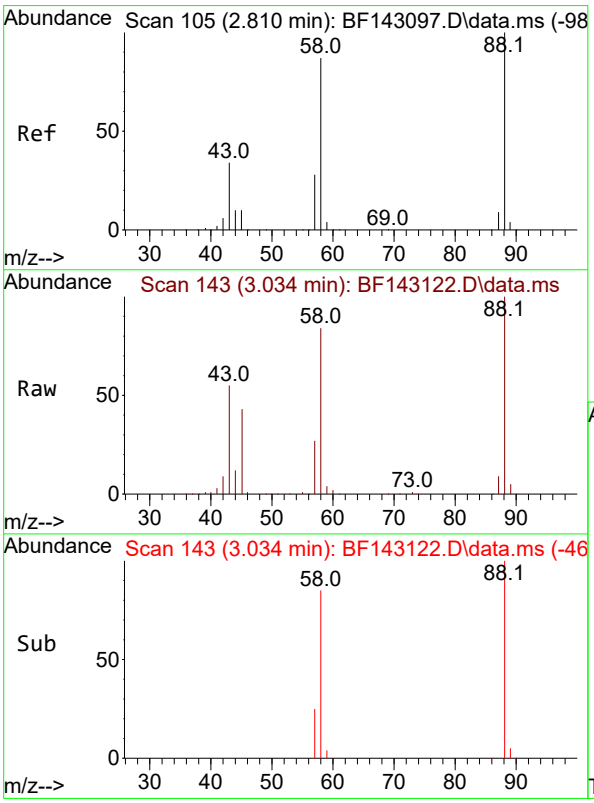
Ion	Ratio	Lower	Upper
152	100		
150	161.1	126.5	189.7
115	60.5	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

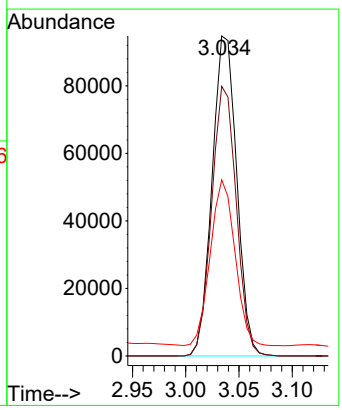
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

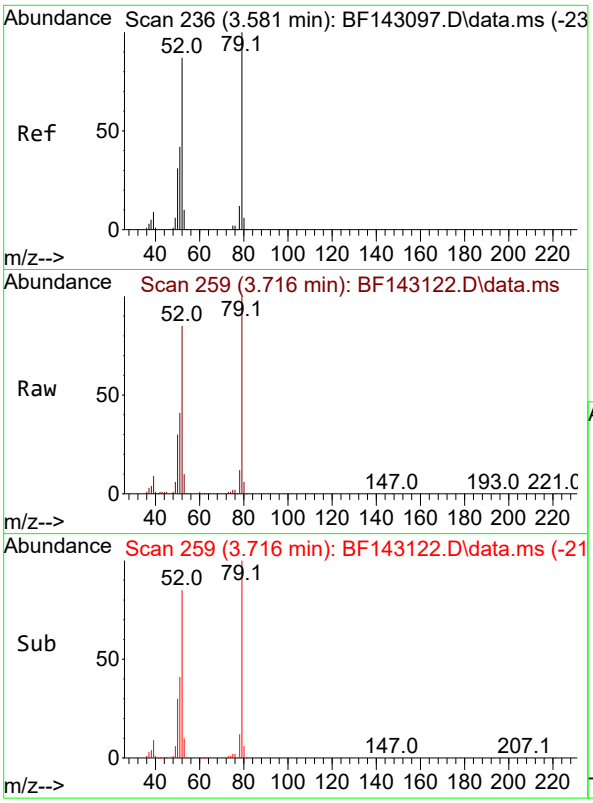


#2
1,4-Dioxane
Concen: 32.957 ng
RT: 3.034 min Scan# 143
Delta R.T. 0.223 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 88 Resp: 152658

Ion	Ratio	Lower	Upper
88	100		
58	84.4	70.5	105.7
43	51.7	27.3	40.9#

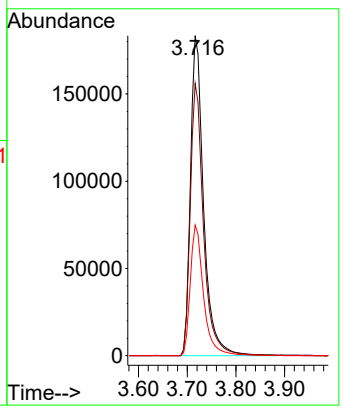




#3
Pyridine
Concen: 29.456 ng
RT: 3.716 min Scan# 2
Delta R.T. 0.135 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 79 Resp: 34550

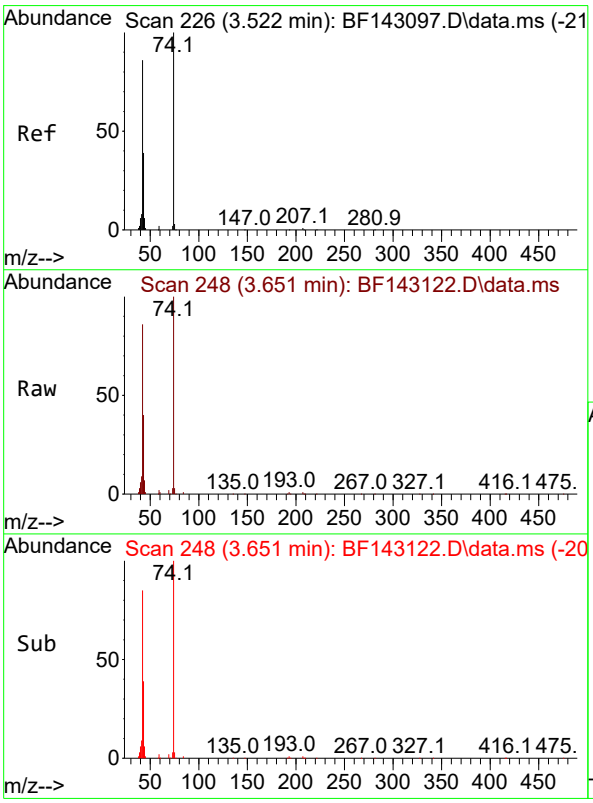
Ion	Ratio	Lower	Upper
79	100		
52	85.0	69.2	103.8
51	40.8	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

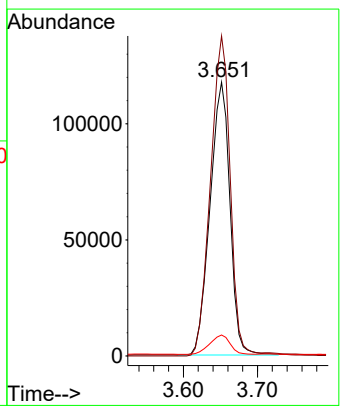
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

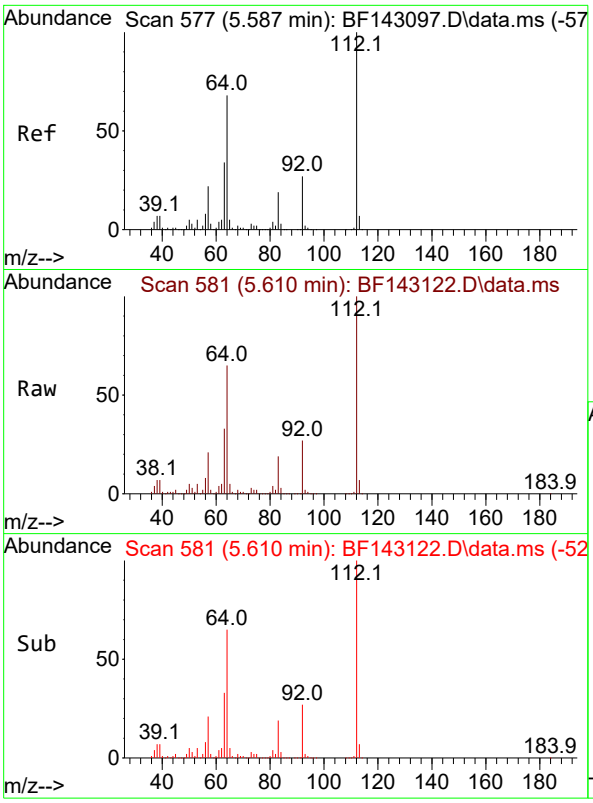


#4
n-Nitrosodimethylamine
Concen: 36.003 ng
RT: 3.651 min Scan# 248
Delta R.T. 0.129 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 42 Resp: 218794

Ion	Ratio	Lower	Upper
42	100		
74	116.9	92.8	139.2
44	7.7	5.8	8.6

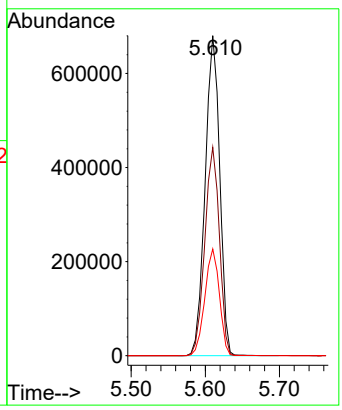




#5
2-Fluorophenol
Concen: 99.920 ng
RT: 5.610 min Scan# 5
Delta R.T. 0.023 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:112 Resp: 92978

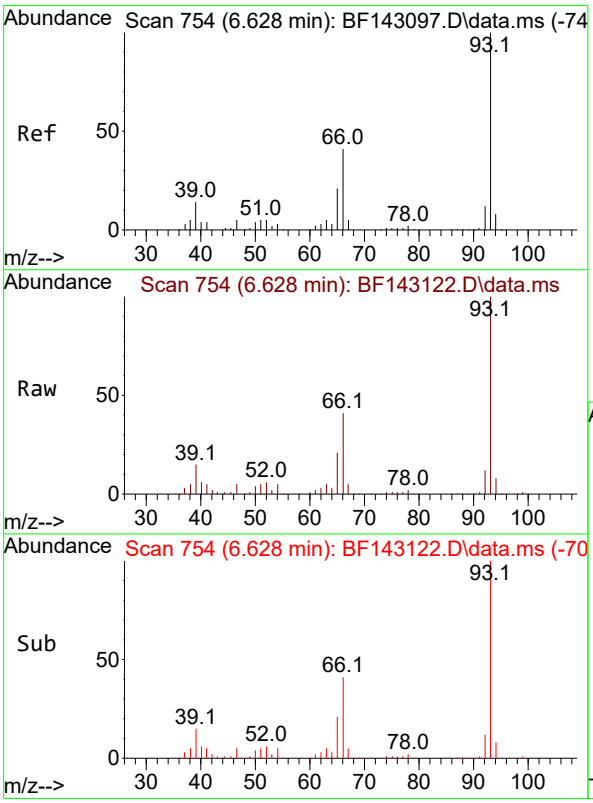
Ion	Ratio	Lower	Upper
112	100		
64	65.1	54.6	82.0
63	33.4	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

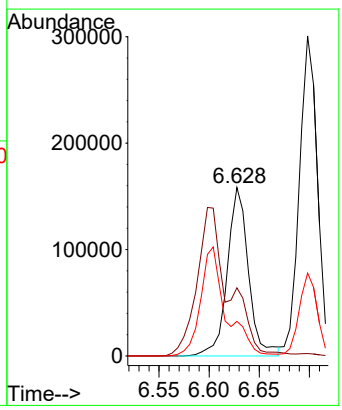
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

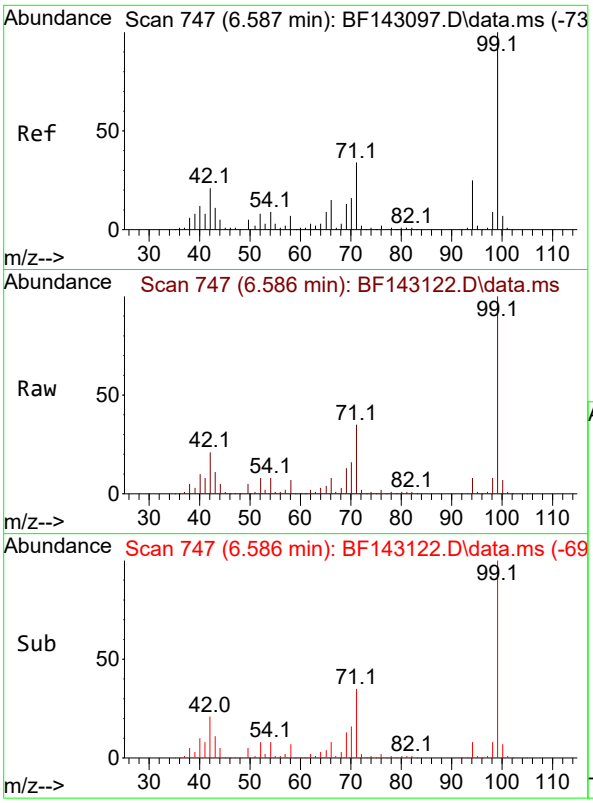


#6
Aniline
Concen: 14.176 ng
RT: 6.628 min Scan# 754
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 93 Resp: 233504

Ion	Ratio	Lower	Upper
93	100		
66	40.5	33.1	49.7
65	20.5	16.9	25.3

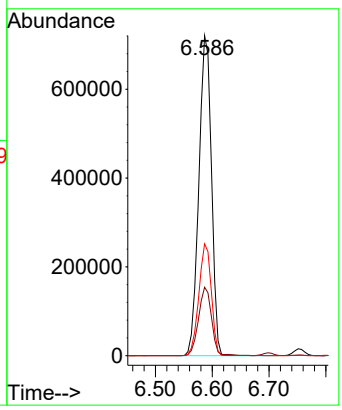




#7
Phenol-d6
Concen: 94.970 ng
RT: 6.586 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 99 Resp: 111084

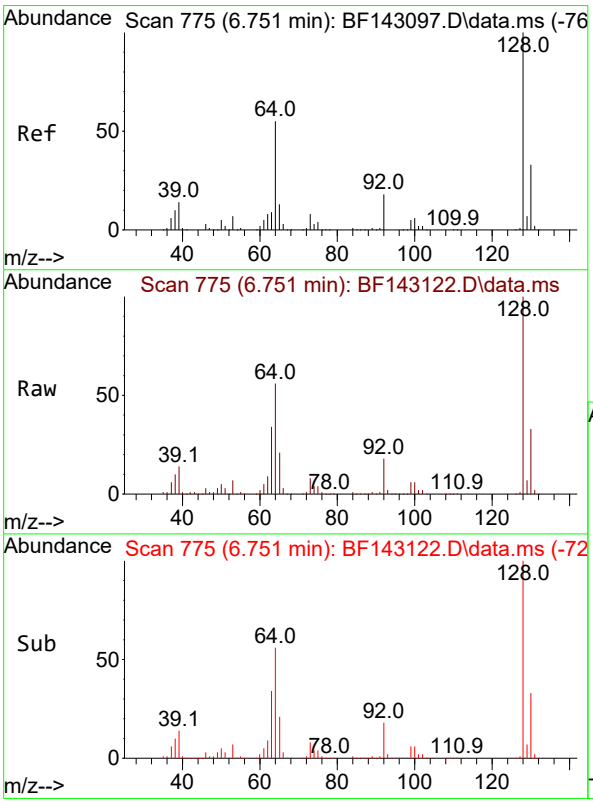
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.2	25.8
71	35.0	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

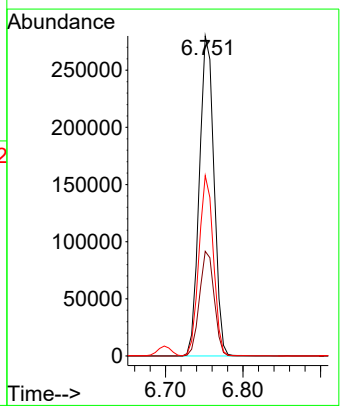
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

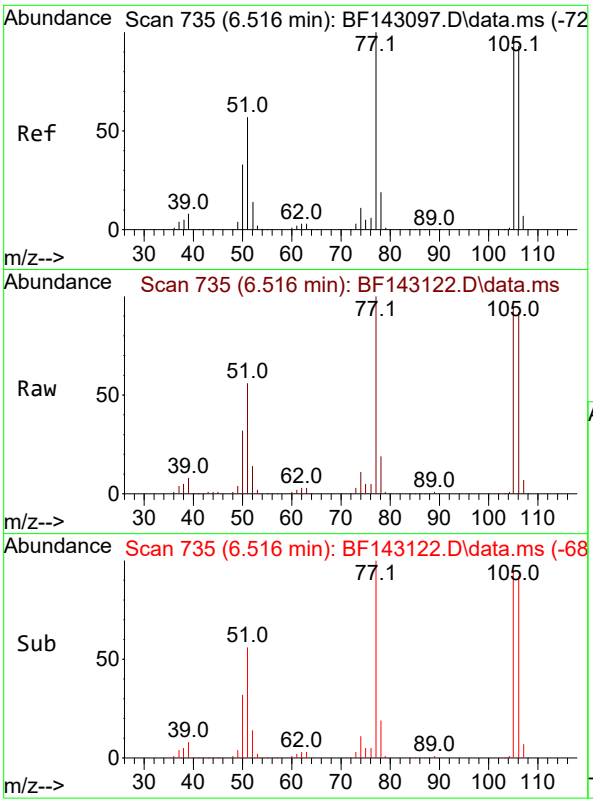


#8
2-Chlorophenol
Concen: 39.339 ng
RT: 6.751 min Scan# 775
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:128 Resp: 367790

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.8	52.8
64	56.3	36.1	76.1

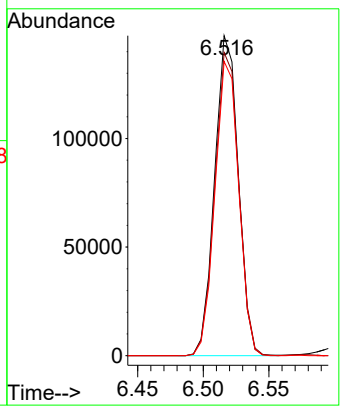




#9
Benzaldehyde
Concen: 20.714 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 77 Resp: 18461

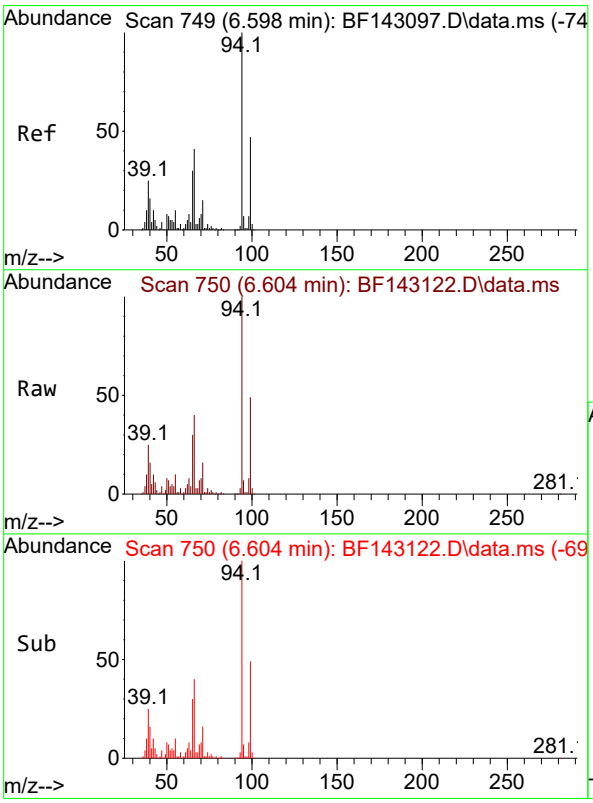
Ion	Ratio	Lower	Upper
77	100		
105	94.7	76.3	116.3
106	92.0	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

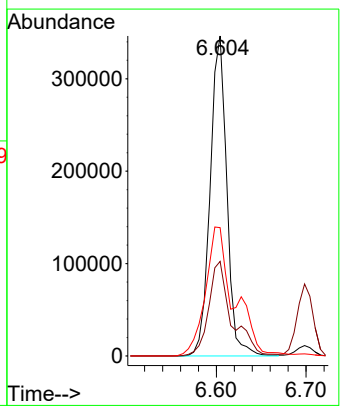
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

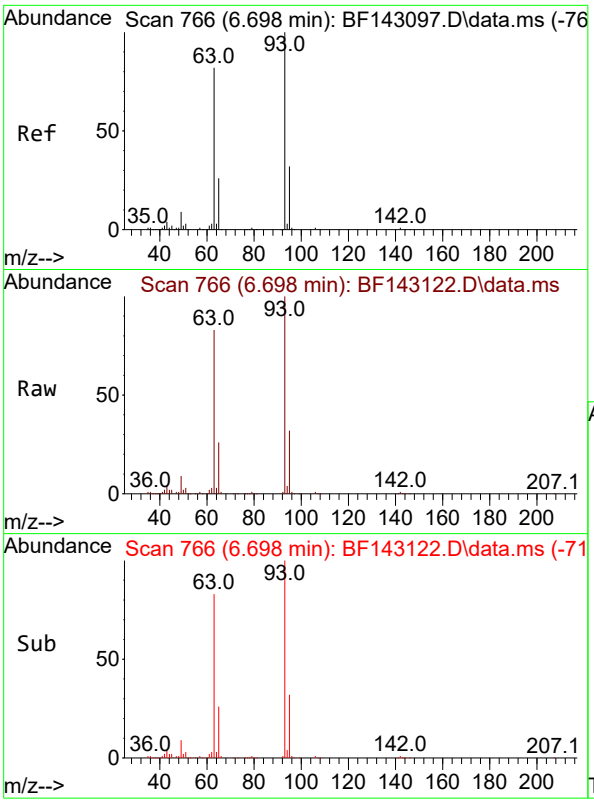


#10
Phenol
Concen: 35.338 ng
RT: 6.604 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 94 Resp: 447469

Ion	Ratio	Lower	Upper
94	100		
65	29.6	9.8	49.8
66	40.1	20.5	60.5

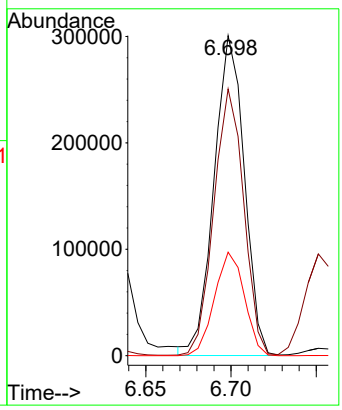




#11
bis(2-Chloroethyl)ether
Concen: 37.937 ng
RT: 6.698 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 93 Resp: 37188

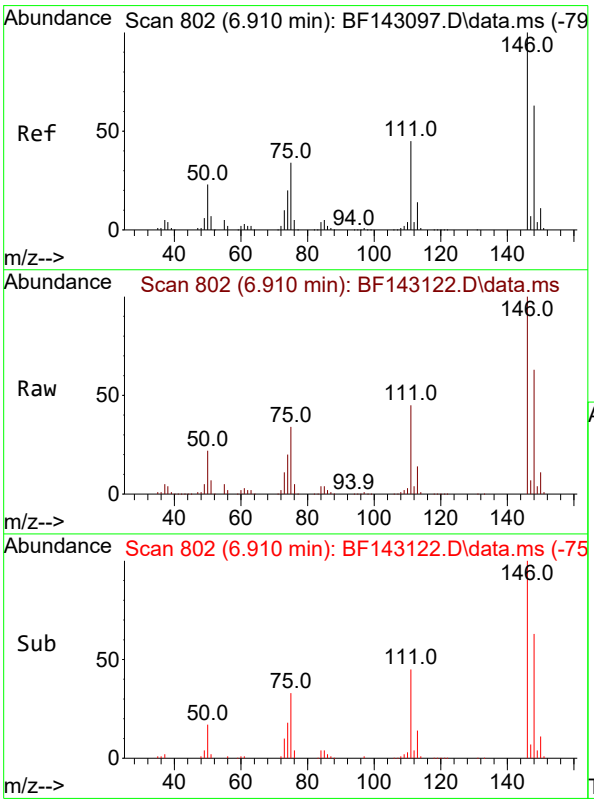
Ion	Ratio	Lower	Upper
93	100		
63	83.4	61.9	101.9
95	32.4	12.2	52.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

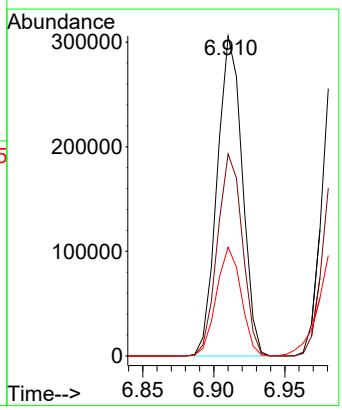
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

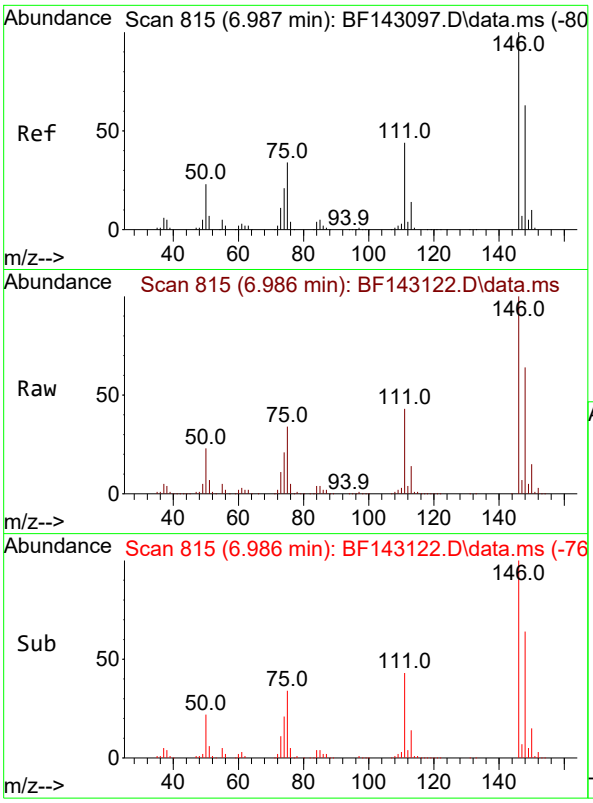


#12
1,3-Dichlorobenzene
Concen: 35.480 ng
RT: 6.910 min Scan# 802
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:146 Resp: 374742

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.1	75.1
75	34.0	27.4	41.0

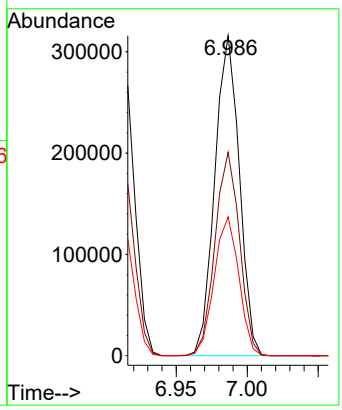




#13
1,4-Dichlorobenzene
Concen: 35.686 ng
RT: 6.986 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:146 Resp: 37920

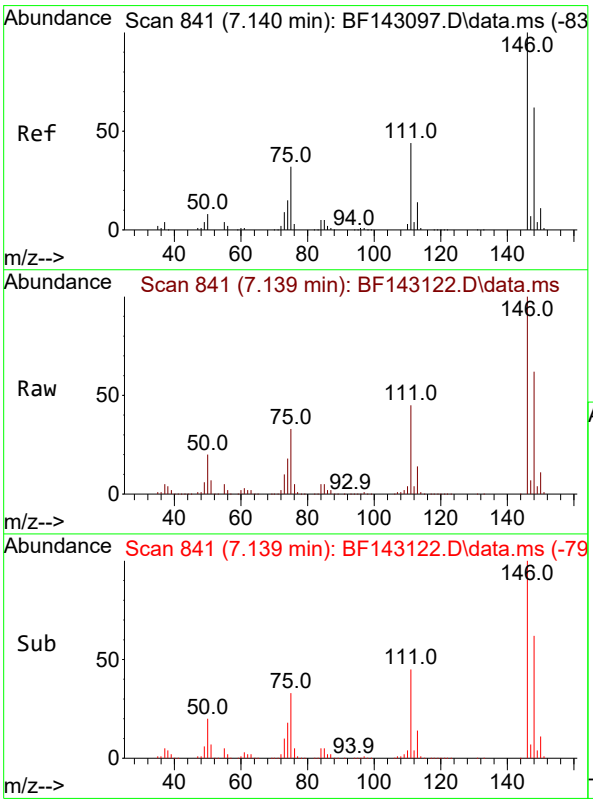
Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.6	76.0
111	43.3	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

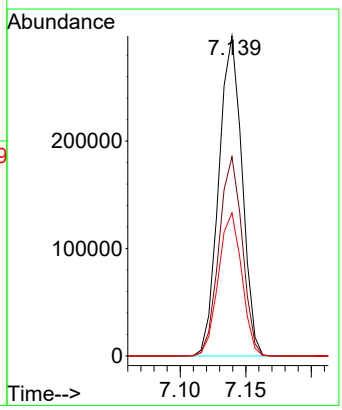
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

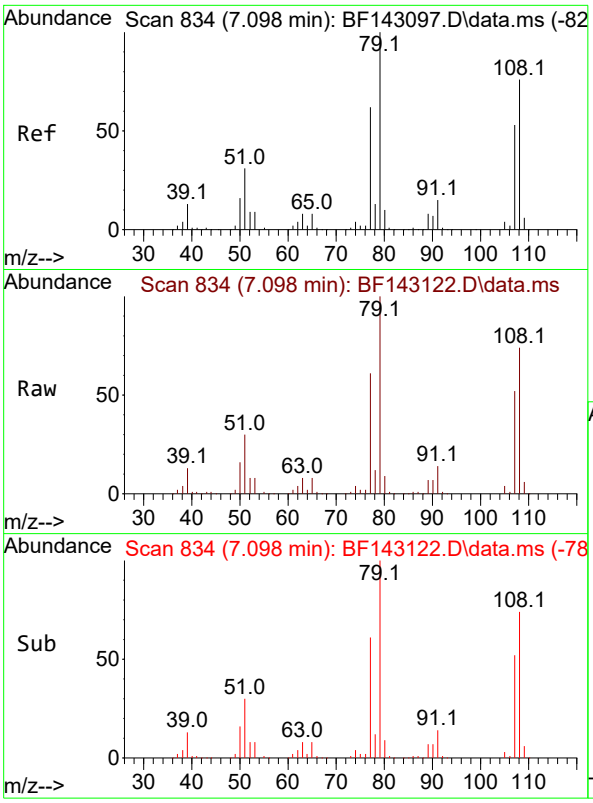


#14
1,2-Dichlorobenzene
Concen: 36.258 ng
RT: 7.139 min Scan# 841
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:146 Resp: 367410

Ion	Ratio	Lower	Upper
146	100		
148	62.2	49.8	74.6
111	44.7	35.4	53.0

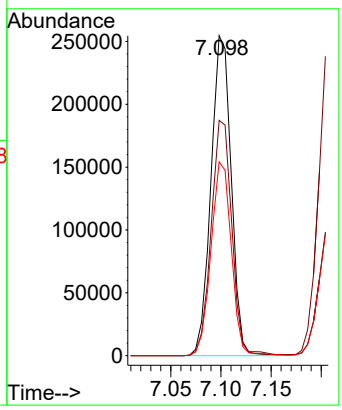




#15
Benzyl Alcohol
Concen: 41.191 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 79 Resp: 35699

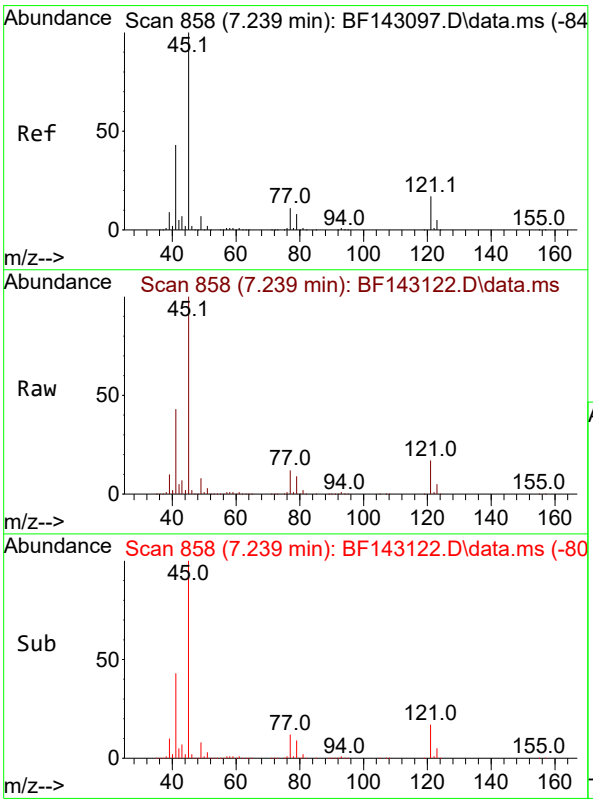
Ion	Ratio	Lower	Upper
79	100		
108	73.5	61.1	91.7
77	60.6	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

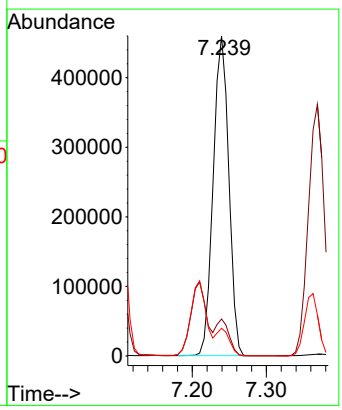
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

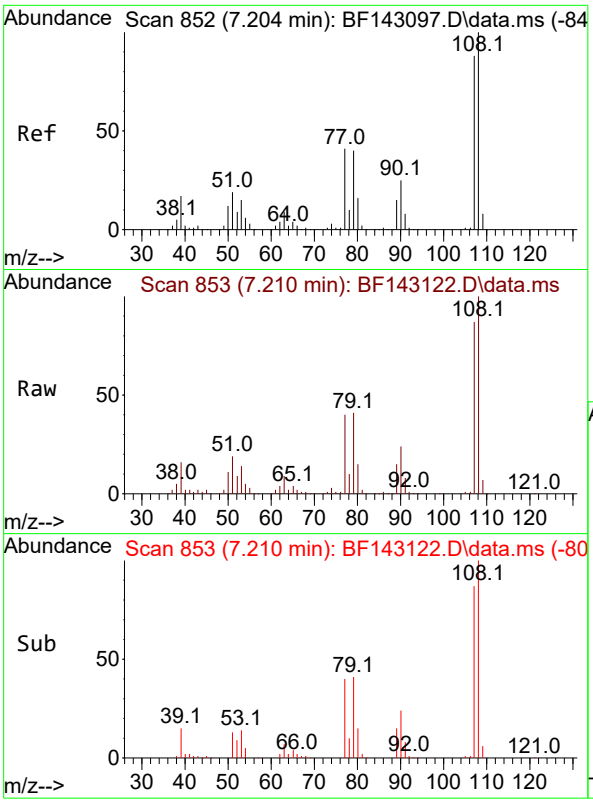


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.031 ng
RT: 7.239 min Scan# 858
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 45 Resp: 669145

Ion	Ratio	Lower	Upper
45	100		
77	11.6	0.0	31.1
79	8.6	0.0	28.4

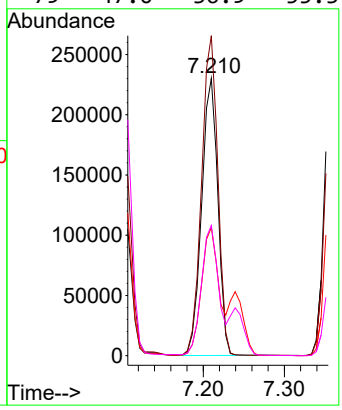




#17
2-Methylphenol
Concen: 39.442 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:107 Resp: 31822

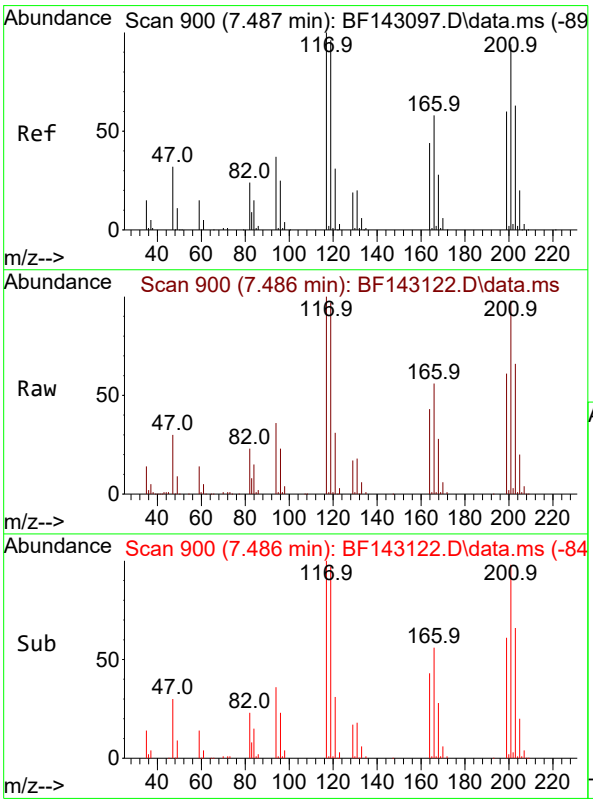
Ion	Ratio	Lower	Upper
107	100		
108	115.4	90.9	136.3
77	46.2	37.5	56.3
79	47.0	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

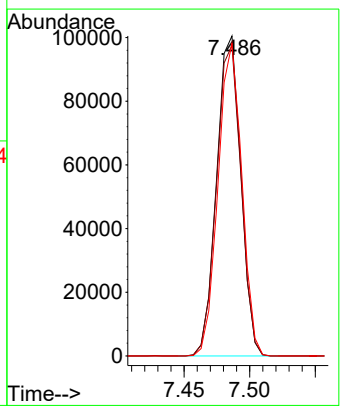
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

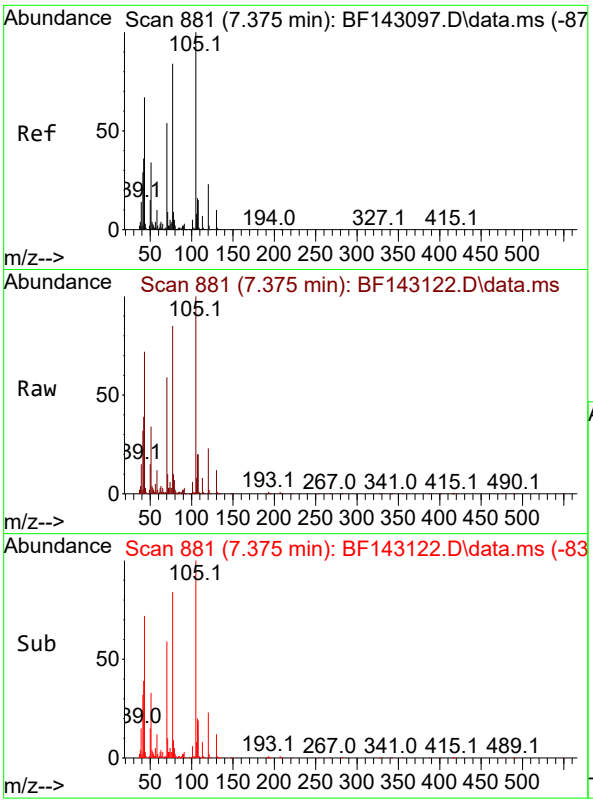


#18
Hexachloroethane
Concen: 37.286 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:117 Resp: 128982

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.7	115.1
201	97.7	75.0	112.4

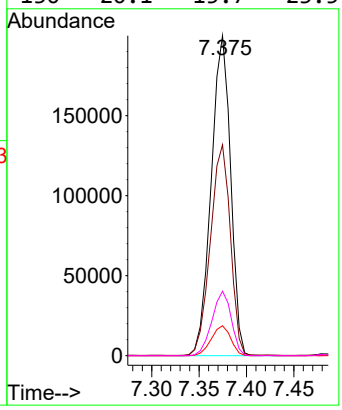




#19
n-Nitroso-di-n-propylamine
Concen: 39.690 ng
RT: 7.375 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 70 Resp: 28442

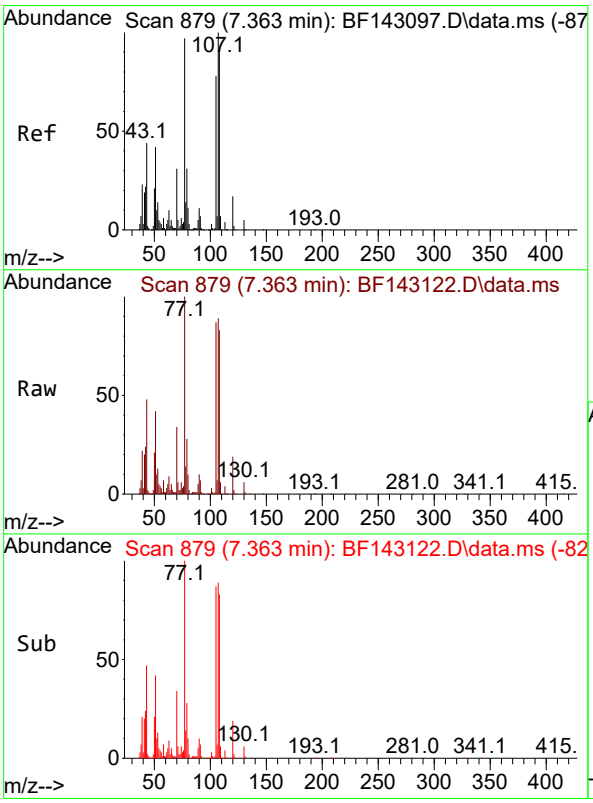
Ion	Ratio	Lower	Upper
70	100		
42	65.9	53.2	79.8
101	9.4	7.5	11.3
130	20.1	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

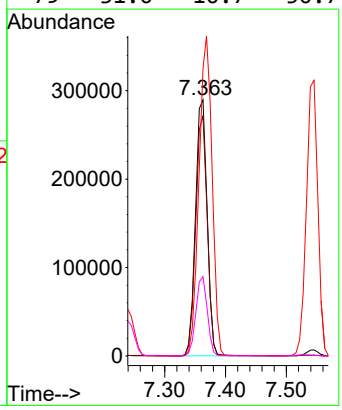
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

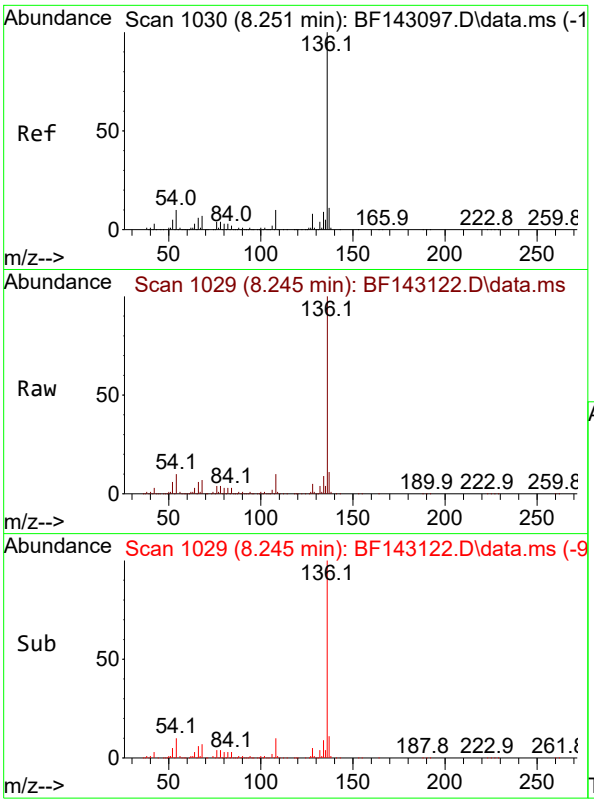


#20
3+4-Methylphenols
Concen: 38.905 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:107 Resp: 384937

Ion	Ratio	Lower	Upper
107	100		
108	93.7	71.3	111.3
77	112.3	77.2	117.2
79	31.0	10.7	50.7

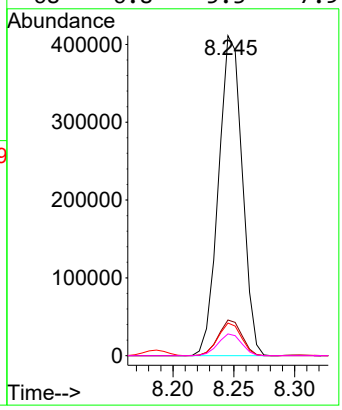




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:136 Resp: 55665

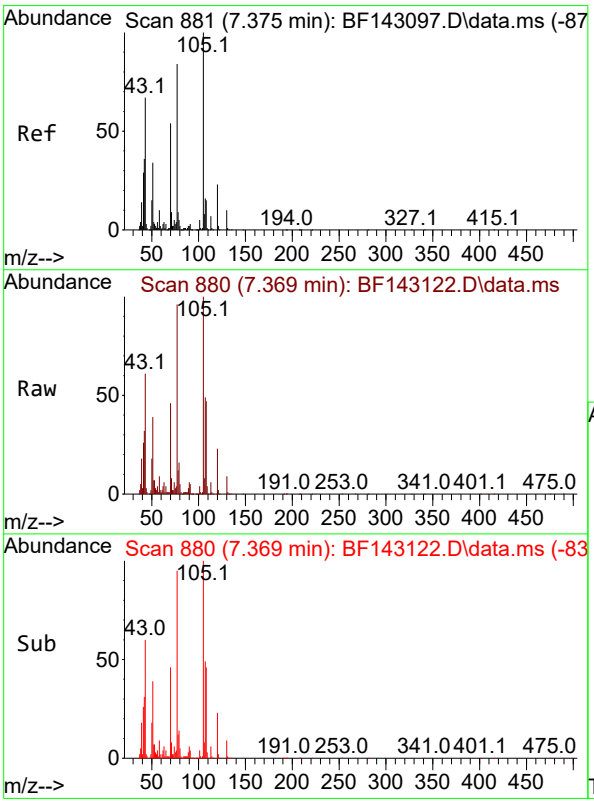
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	10.2	8.3	12.5
68	6.8	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

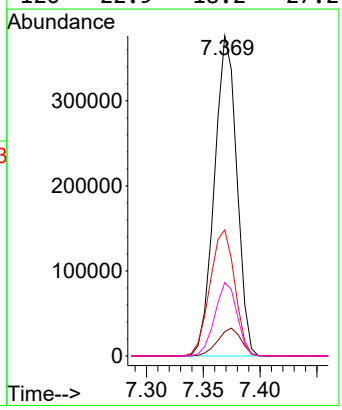
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

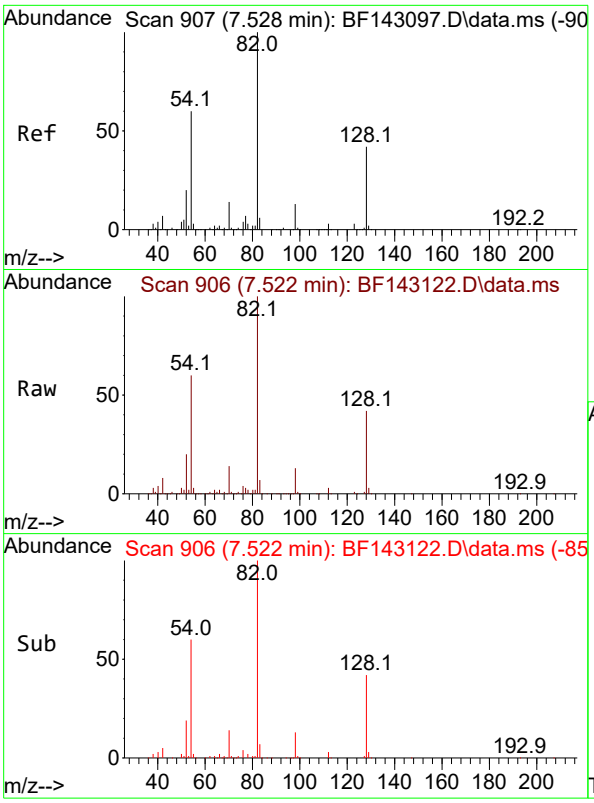


#22
Acetophenone
Concen: 38.531 ng
RT: 7.369 min Scan# 880
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:105 Resp: 517043

Ion	Ratio	Lower	Upper
105	100		
71	7.6	7.2	10.8
51	39.4	27.0	40.4
120	22.9	18.2	27.2

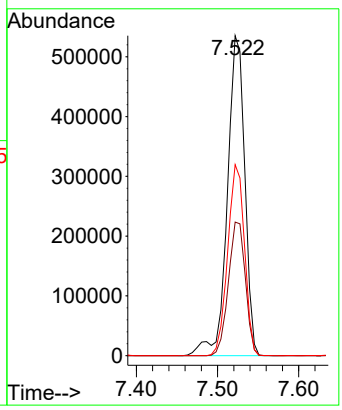




#23
Nitrobenzene-d5
Concen: 80.558 ng
RT: 7.522 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 82 Resp: 79937

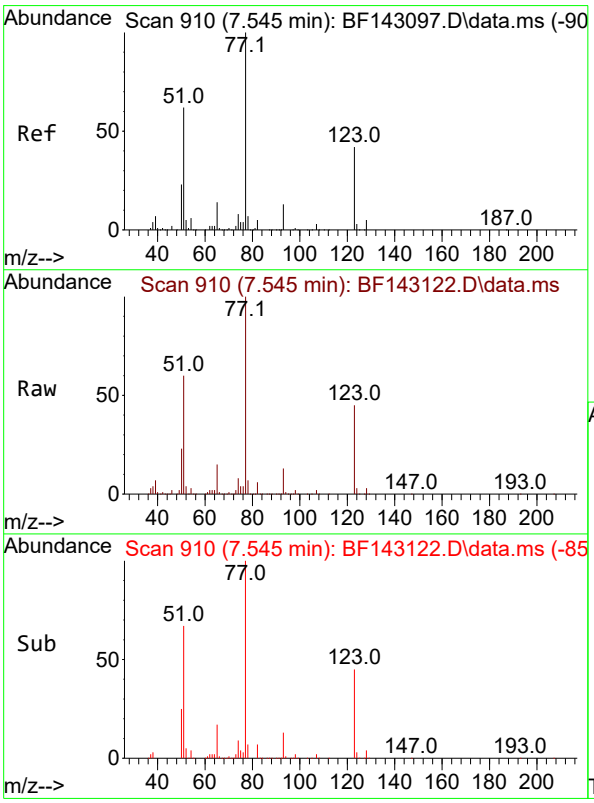
Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.3	49.9
54	59.7	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

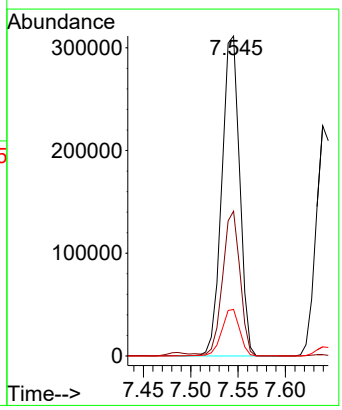
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

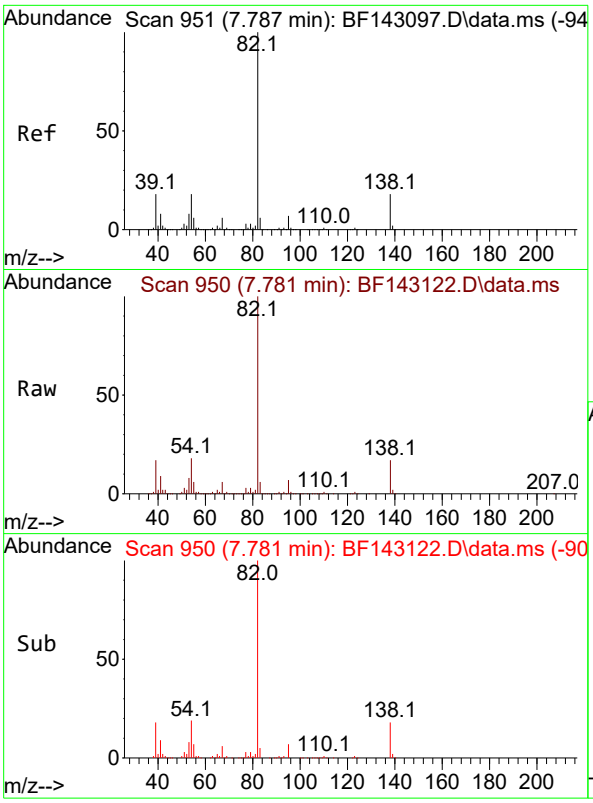


#24
Nitrobenzene
Concen: 42.599 ng
RT: 7.545 min Scan# 910
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 77 Resp: 408070

Ion	Ratio	Lower	Upper
77	100		
123	45.3	34.5	51.7
65	14.5	11.3	16.9

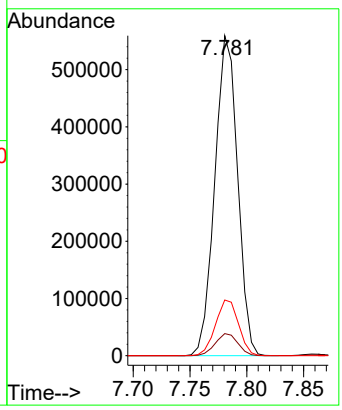




#25
Isophorone
Concen: 40.742 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 82 Resp: 78140

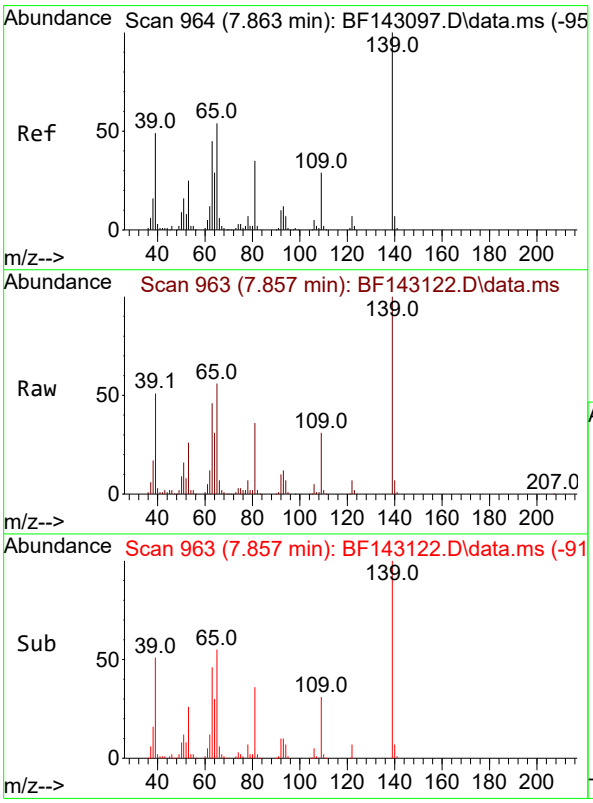
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.6	8.4
138	17.4	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

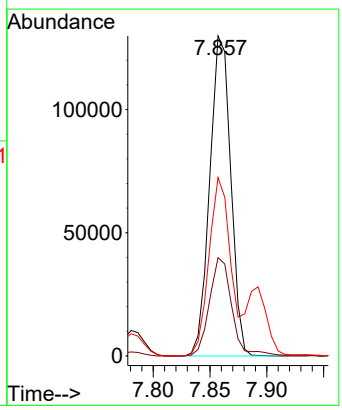
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

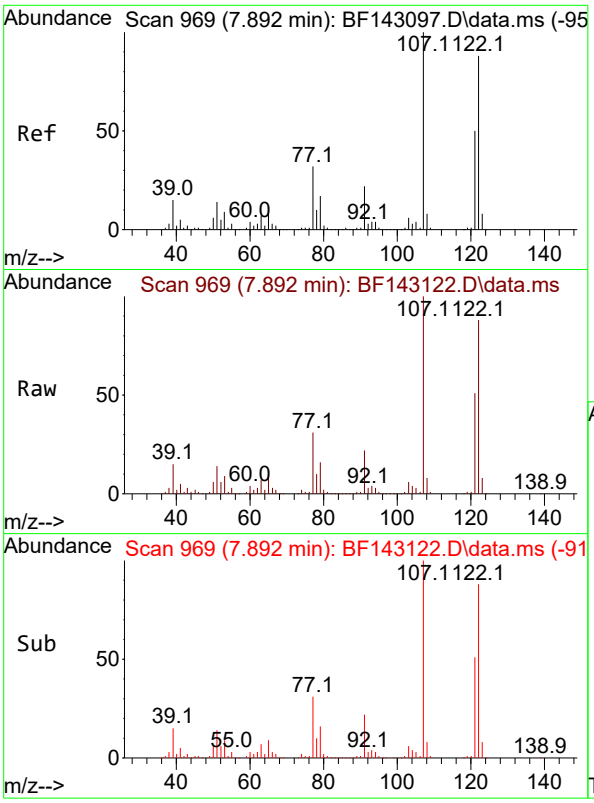


#26
2-Nitrophenol
Concen: 44.075 ng
RT: 7.857 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:139 Resp: 167379

Ion	Ratio	Lower	Upper
139	100		
109	30.7	23.4	35.0
65	55.8	43.4	65.2

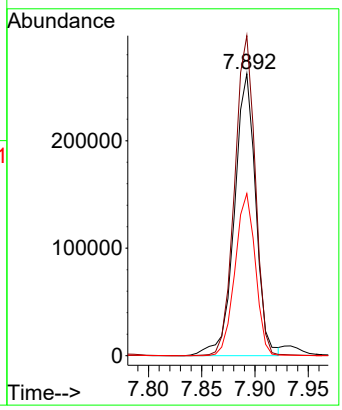




#27
2,4-Dimethylphenol
Concen: 41.098 ng
RT: 7.892 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:122 Resp: 36584

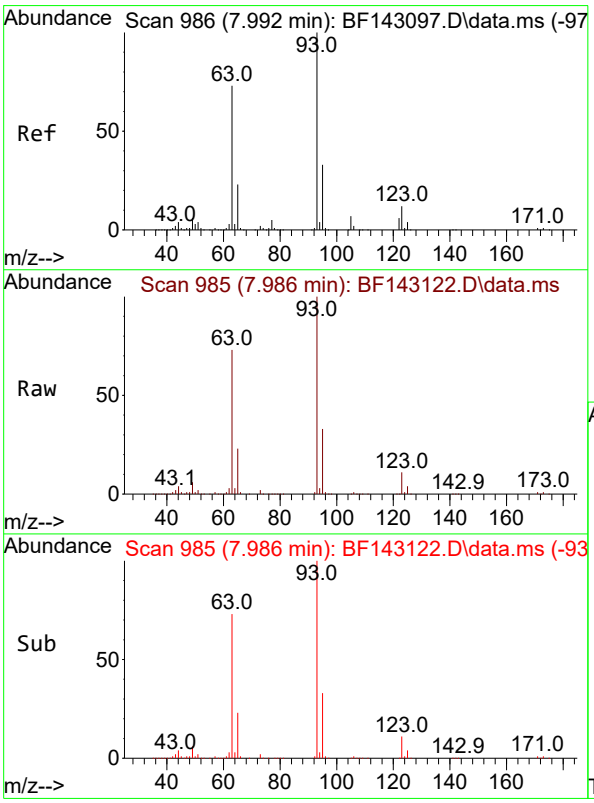
Ion	Ratio	Lower	Upper
122	100		
107	113.5	91.3	136.9
121	57.5	45.5	68.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

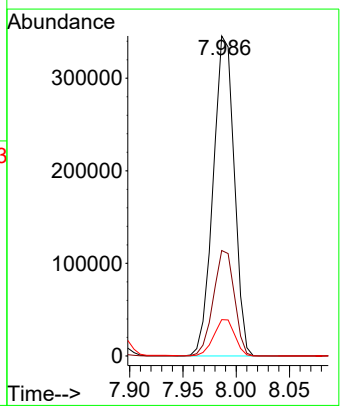
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

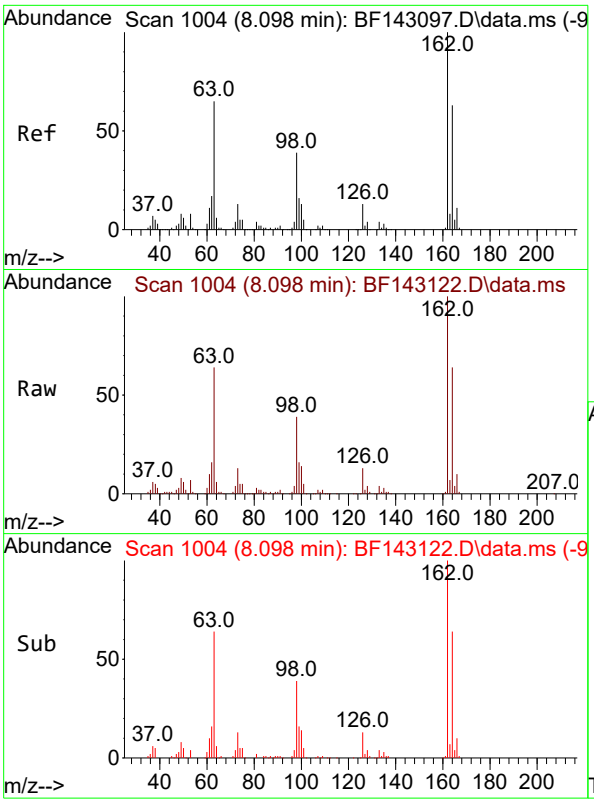


#28
bis(2-Chloroethoxy)methane
Concen: 40.866 ng
RT: 7.986 min Scan# 985
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 93 Resp: 475295

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.2	39.4
123	11.3	9.6	14.4

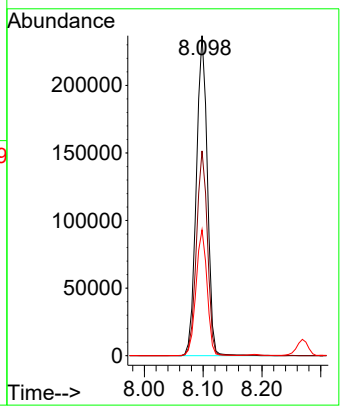




#29
2,4-Dichlorophenol
Concen: 42.554 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:162 Resp: 30990

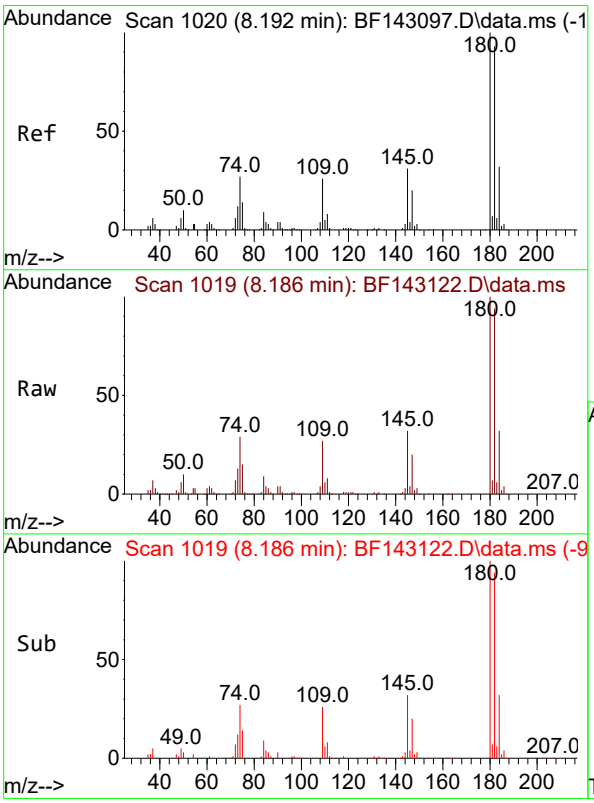
Ion	Ratio	Lower	Upper
162	100		
164	64.0	43.1	83.1
98	39.4	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

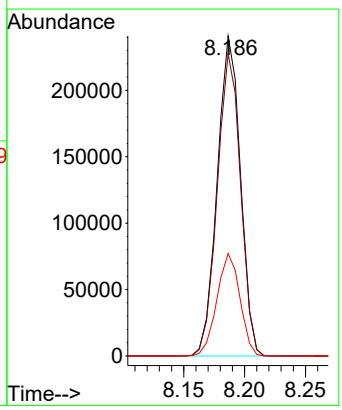
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

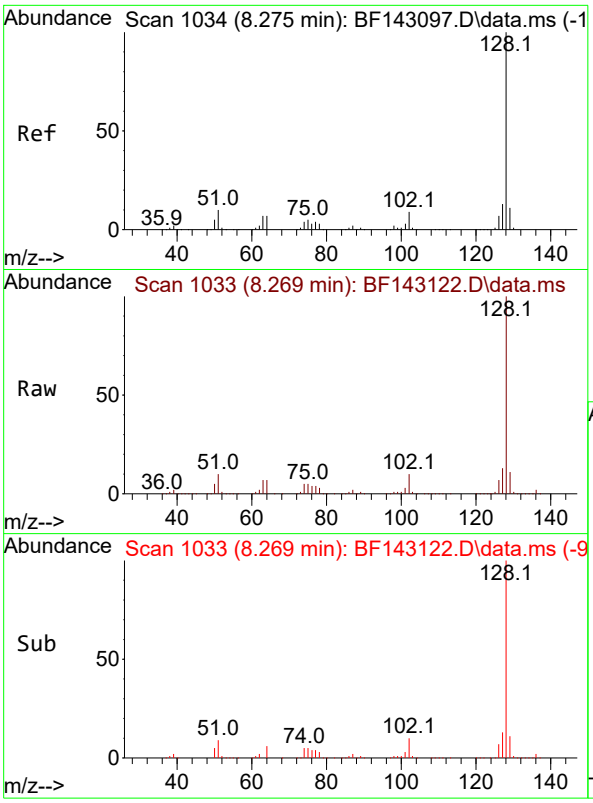


#30
1,2,4-Trichlorobenzene
Concen: 38.578 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:180 Resp: 318849

Ion	Ratio	Lower	Upper
180	100		
182	94.5	74.7	112.1
145	32.0	24.5	36.7

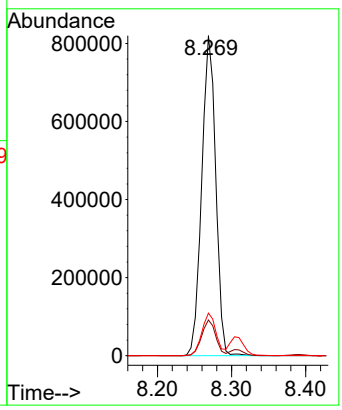




#31
Naphthalene
Concen: 38.875 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:128 Resp: 107462

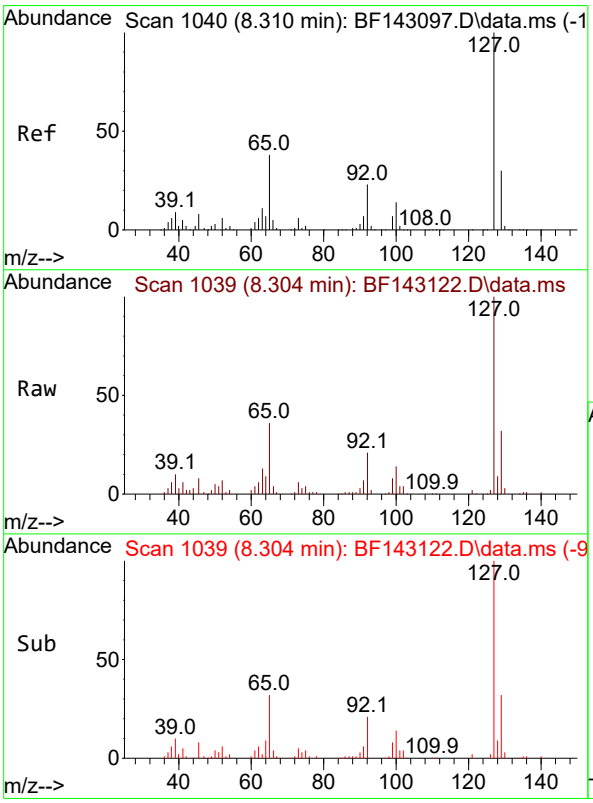
Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.0	13.4
127	13.3	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

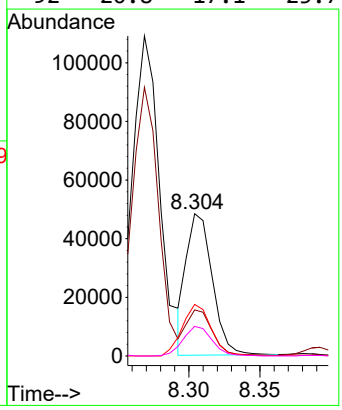
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

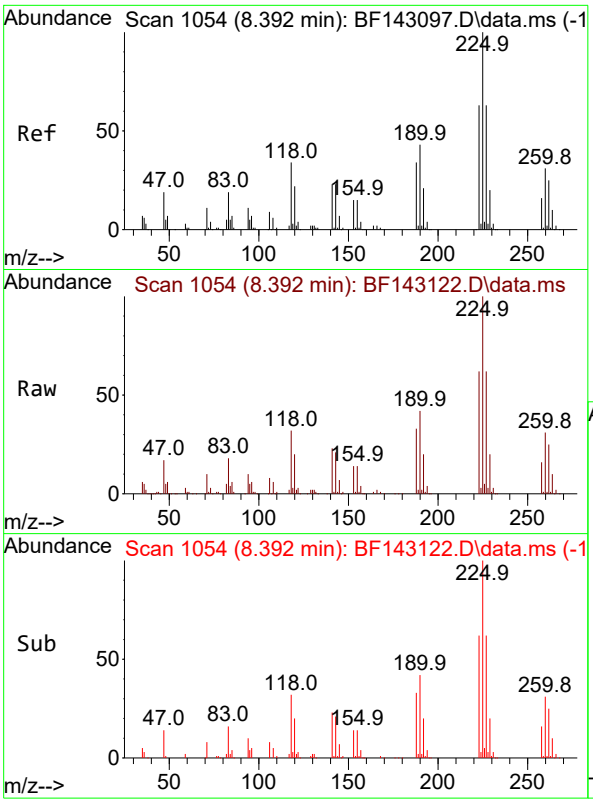


#33
4-Chloroaniline
Concen: 5.517 ng
RT: 8.304 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:127 Resp: 61328

Ion	Ratio	Lower	Upper
127	100		
129	32.4	26.2	39.4
65	36.3	28.6	42.8
92	20.8	17.1	25.7

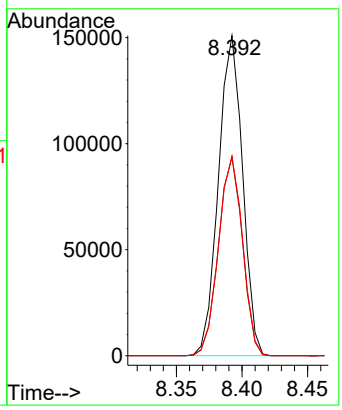




#34
Hexachlorobutadiene
Concen: 39.039 ng
RT: 8.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:225 Resp: 19296

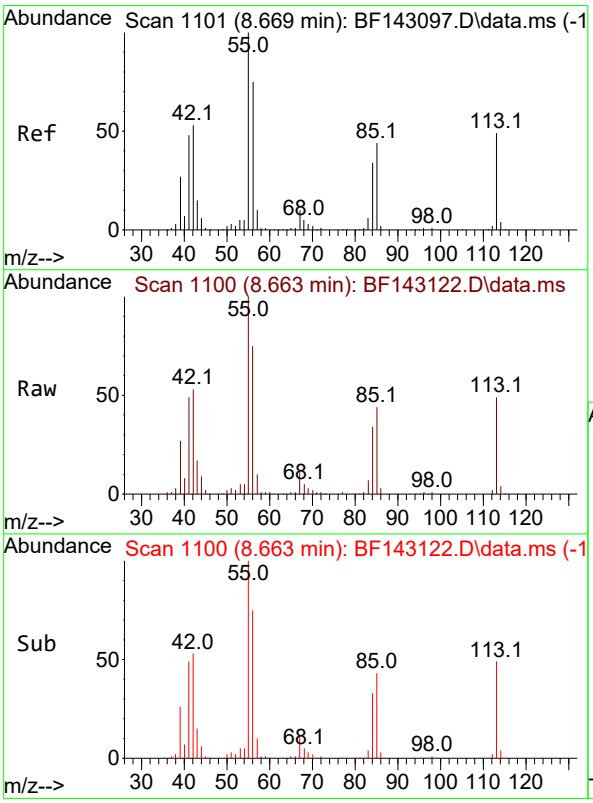
Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.3	75.5
227	62.4	50.1	75.1



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

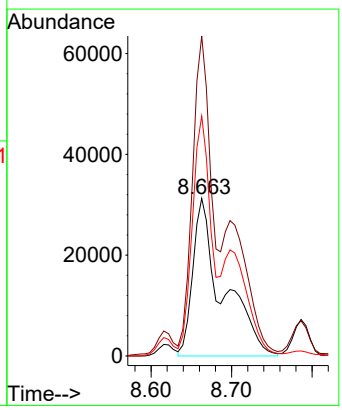
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

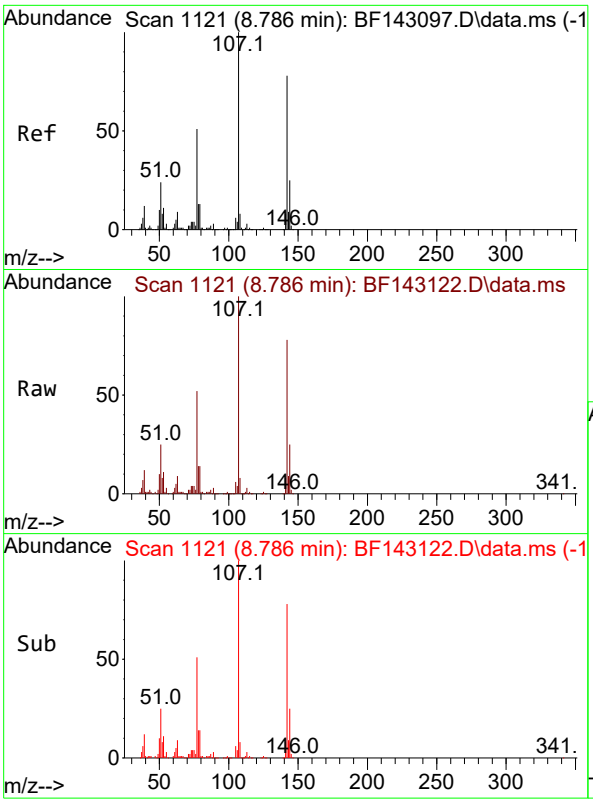


#35
Caprolactam
Concen: 35.306 ng m
RT: 8.663 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:113 Resp: 80291

Ion	Ratio	Lower	Upper
113	100		
55	203.1	186.2	226.2
56	152.3	134.1	174.1

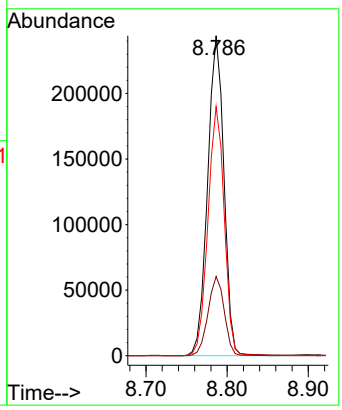




#36
4-Chloro-3-methylphenol
Concen: 42.002 ng
RT: 8.786 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:107 Resp: 34073

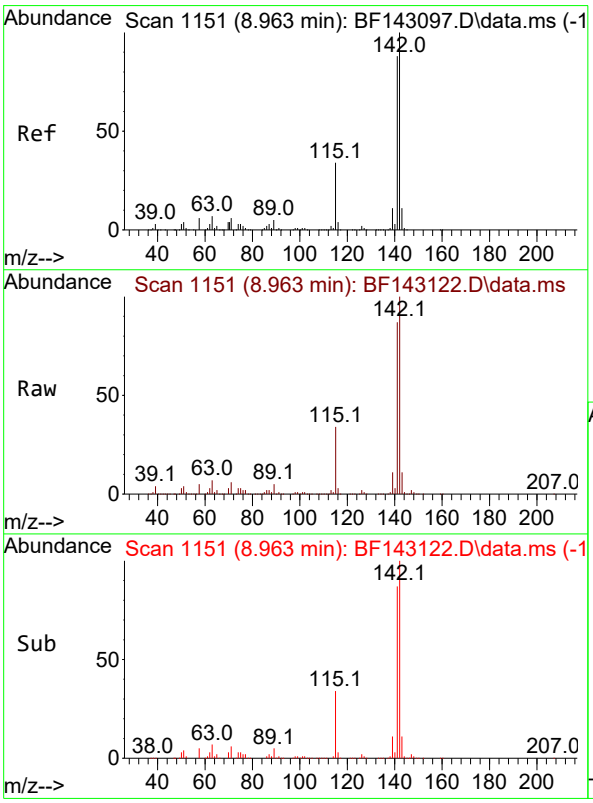
Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.2	30.2
142	77.8	62.4	93.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

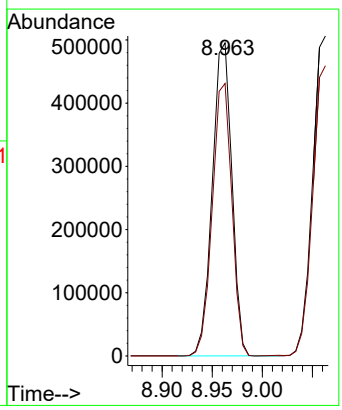
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

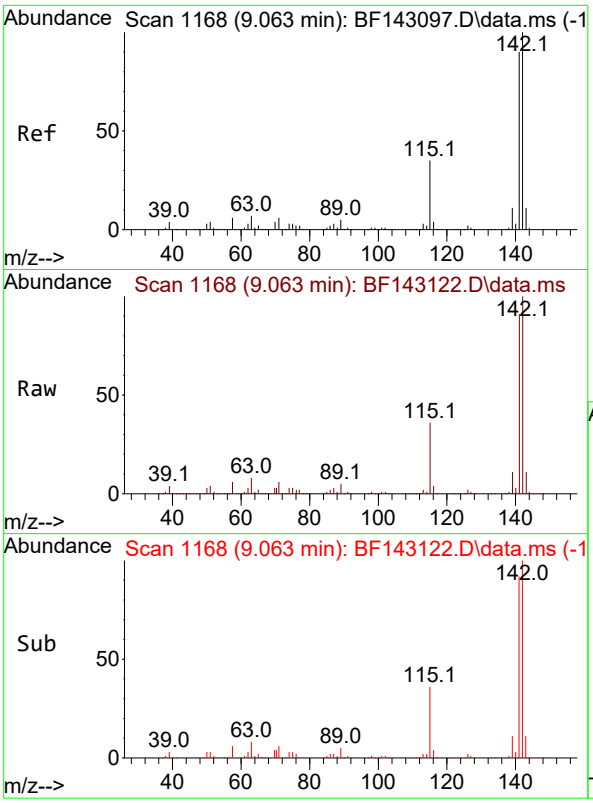


#37
2-Methylnaphthalene
Concen: 40.718 ng
RT: 8.963 min Scan# 1151
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:142 Resp: 671479

Ion	Ratio	Lower	Upper
142	100		
141	87.0	70.2	105.2

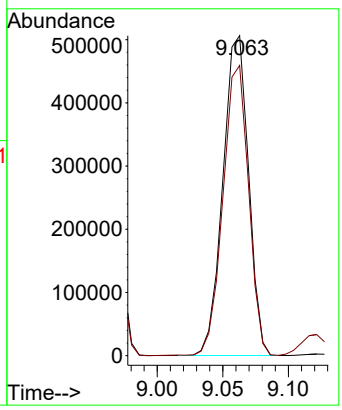




#38
1-Methylnaphthalene
Concen: 40.277 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:142 Resp: 68889

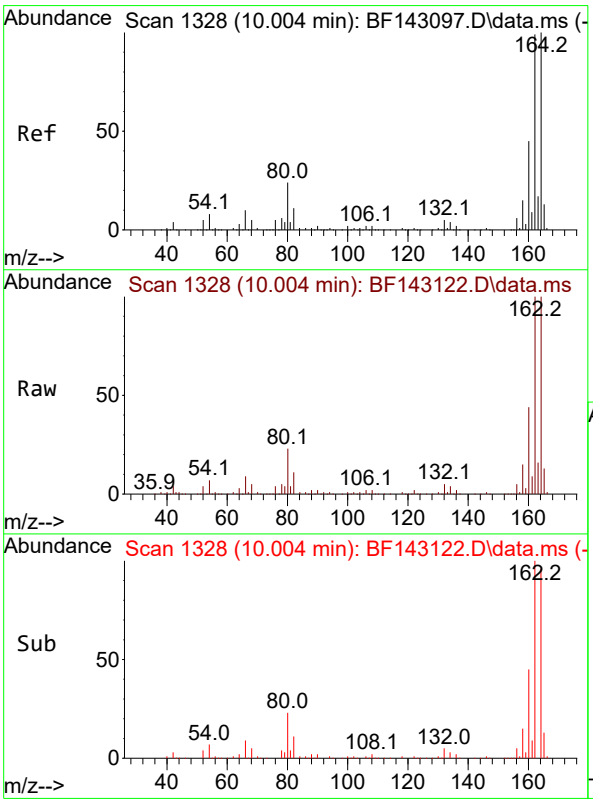
Ion	Ratio	Lower	Upper
142	100		
141	90.7	72.2	108.4



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

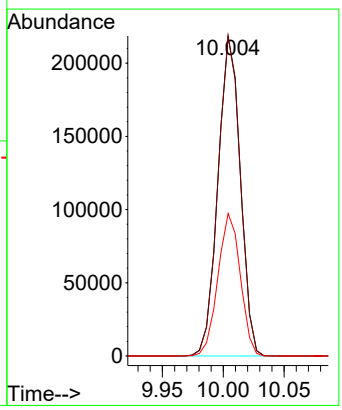
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

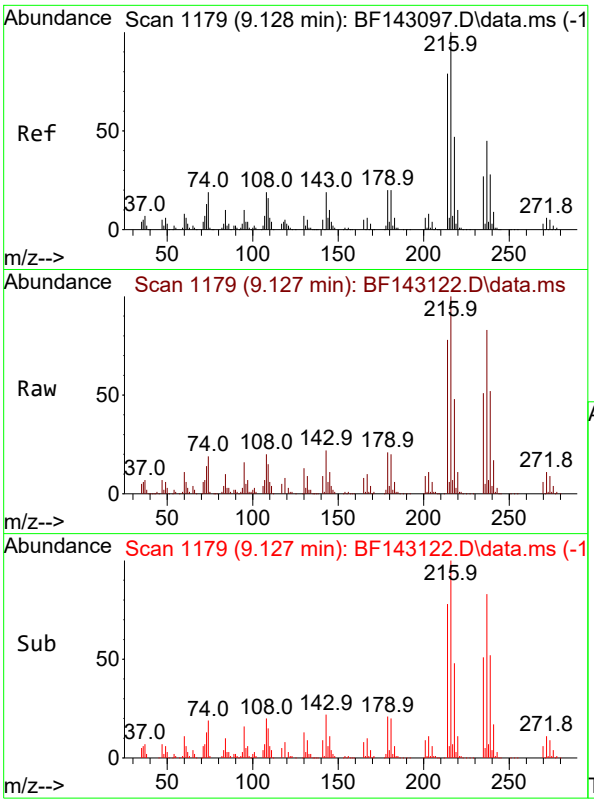


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:164 Resp: 279575

Ion	Ratio	Lower	Upper
164	100		
162	99.8	79.0	118.6
160	44.5	35.8	53.6

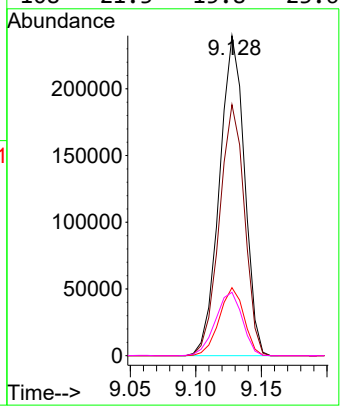




#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.048 ng
RT: 9.127 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:216 Resp: 31814

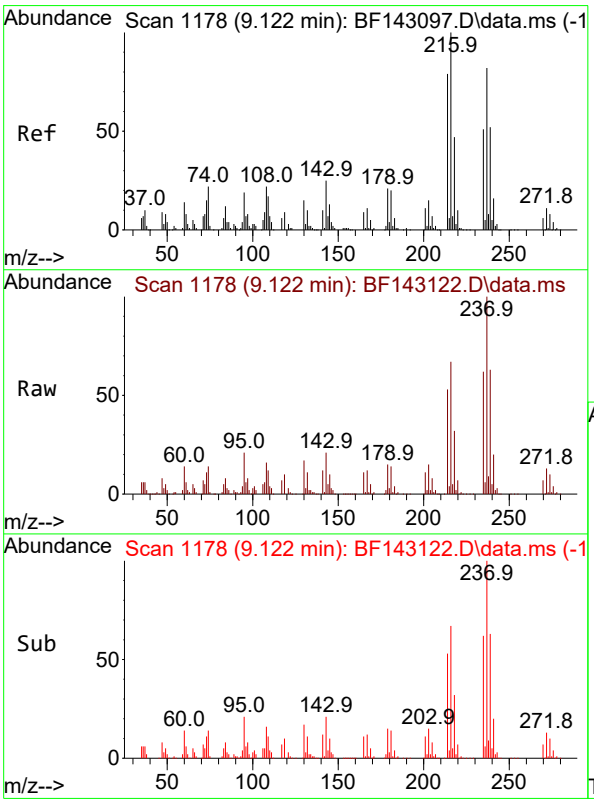
Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.6	94.0
179	21.0	16.2	24.2
108	21.3	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

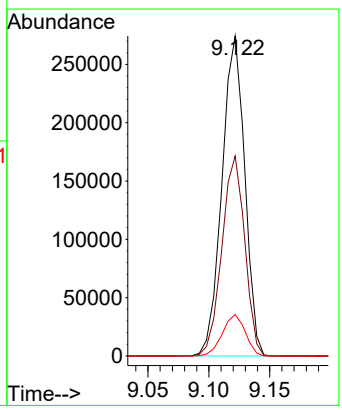
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

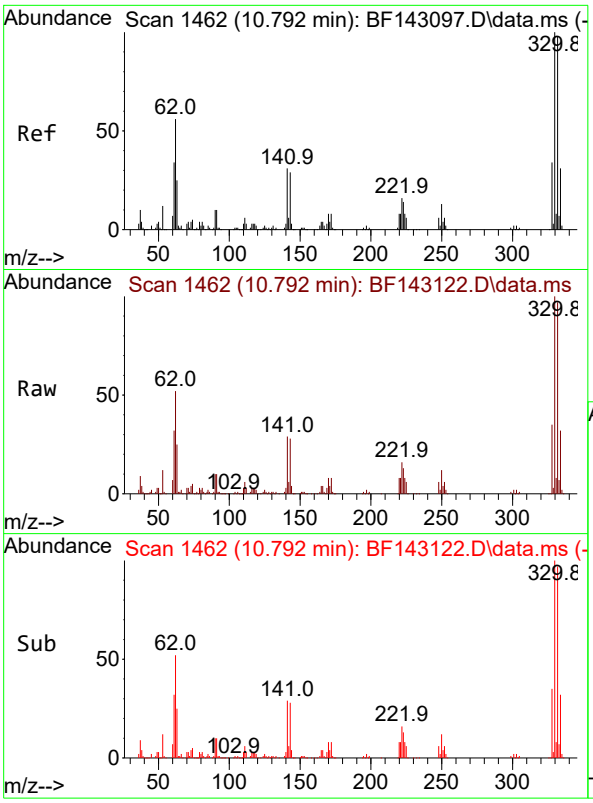


#41
Hexachlorocyclopentadiene
Concen: 79.110 ng
RT: 9.122 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:237 Resp: 357351

Ion	Ratio	Lower	Upper
237	100		
235	62.5	41.6	81.6
272	13.0	0.0	32.9

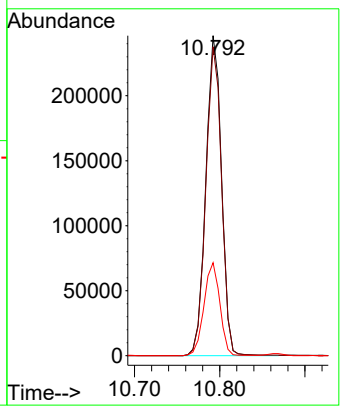




#42
2,4,6-Tribromophenol
Concen: 126.298 ng
RT: 10.792 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:330 Resp: 31483

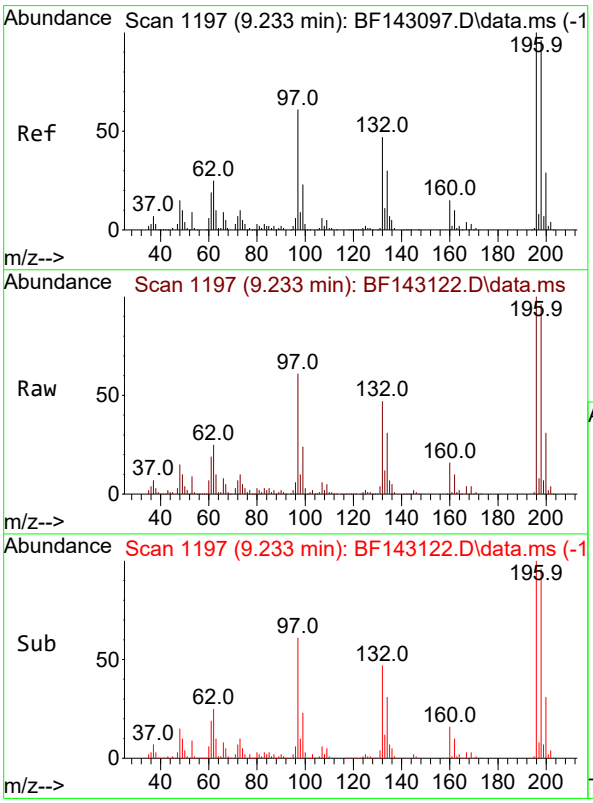
Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.9	116.9
141	29.4	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

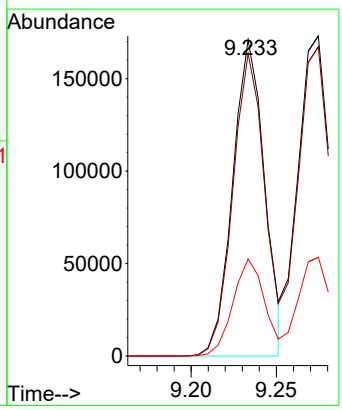
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

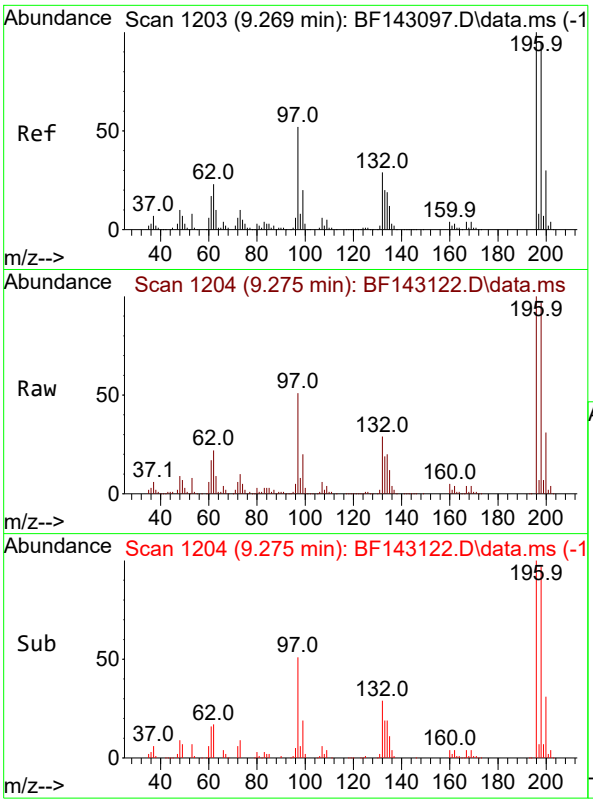


#43
2,4,6-Trichlorophenol
Concen: 43.874 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:196 Resp: 222112

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.9	115.3
200	30.7	23.5	35.3

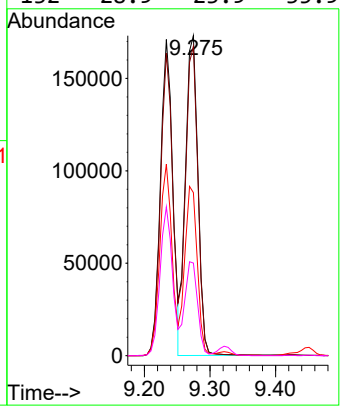




#44
2,4,5-Trichlorophenol
Concen: 43.216 ng
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:196 Resp: 22940

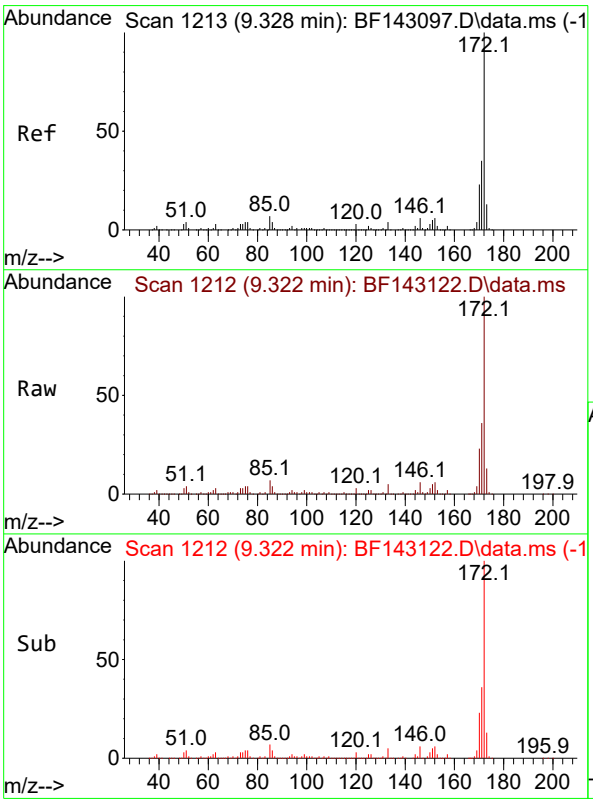
Ion	Ratio	Lower	Upper
196	100		
198	96.7	76.4	114.6
97	50.9	42.4	63.6
132	28.9	23.9	35.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

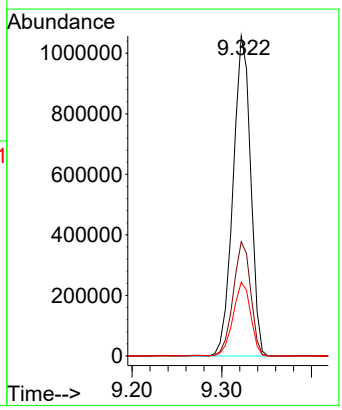
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

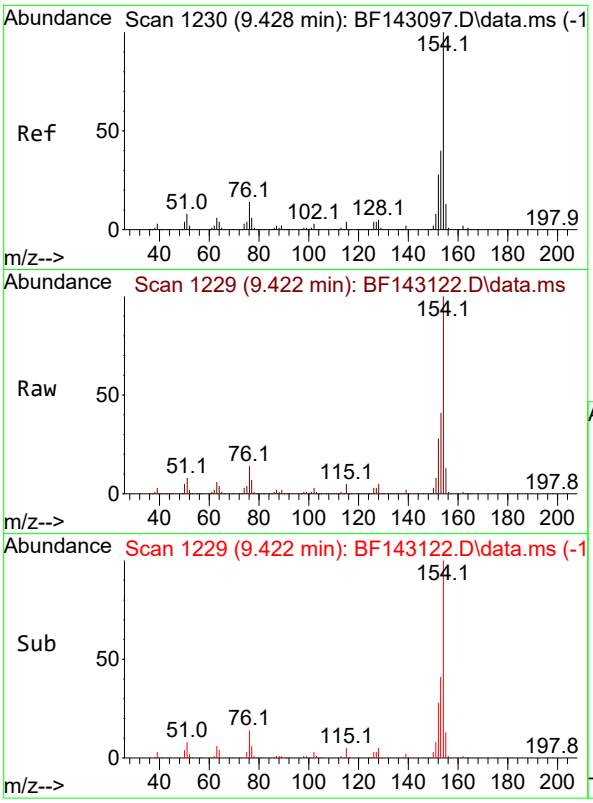


#45
2-Fluorobiphenyl
Concen: 68.405 ng
RT: 9.322 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:172 Resp: 1438701

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.4
170	23.0	18.6	28.0

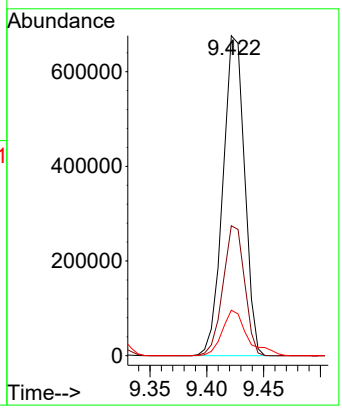




#46
1,1'-Biphenyl
Concen: 40.322 ng
RT: 9.422 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:154 Resp: 89900

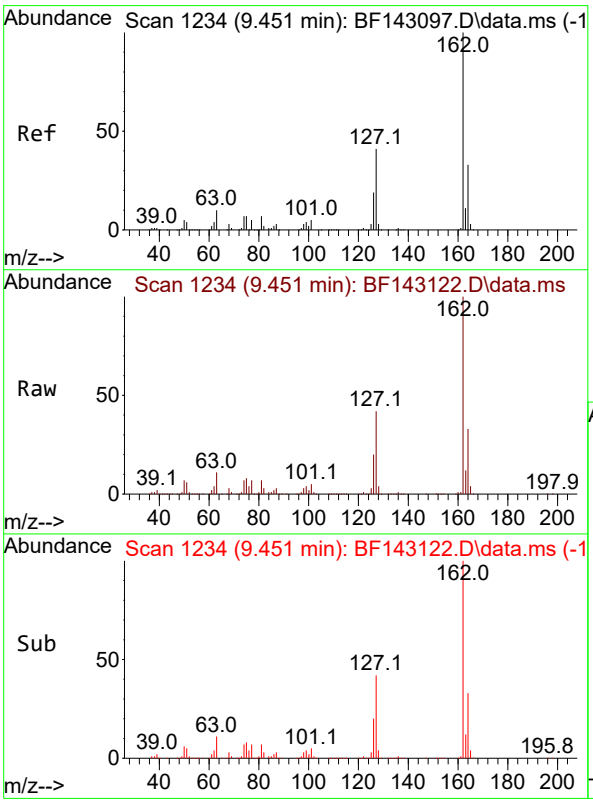
Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.1	60.1
76	14.2	0.0	33.7



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

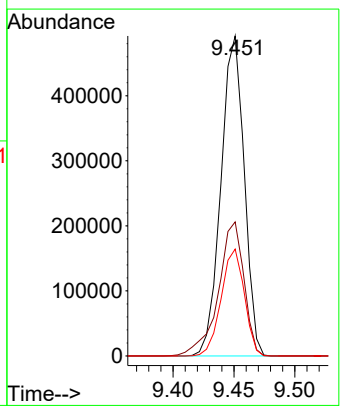
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

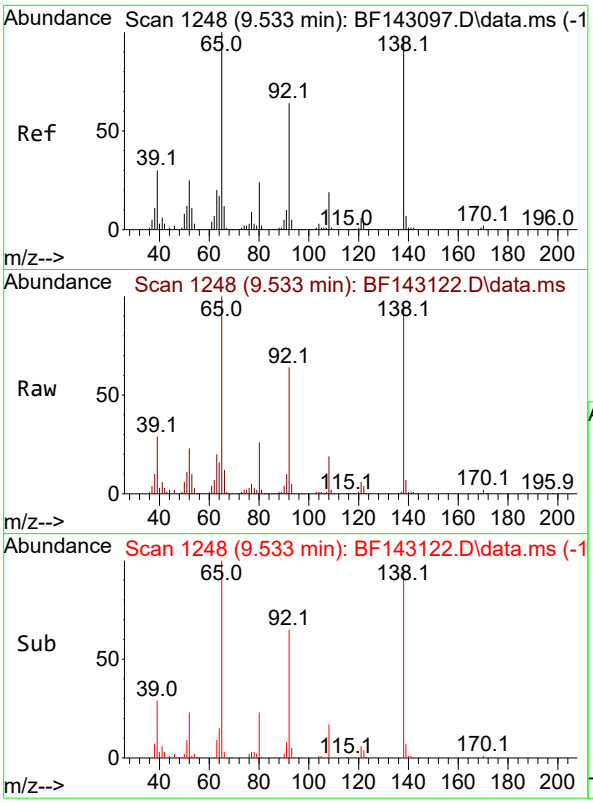


#47
2-Chloronaphthalene
Concen: 40.006 ng
RT: 9.451 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:162 Resp: 655257

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.0	49.6
164	33.4	26.1	39.1

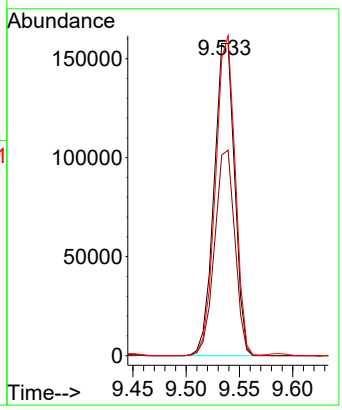




#48
2-Nitroaniline
Concen: 43.531 ng
RT: 9.533 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 65 Resp: 21132

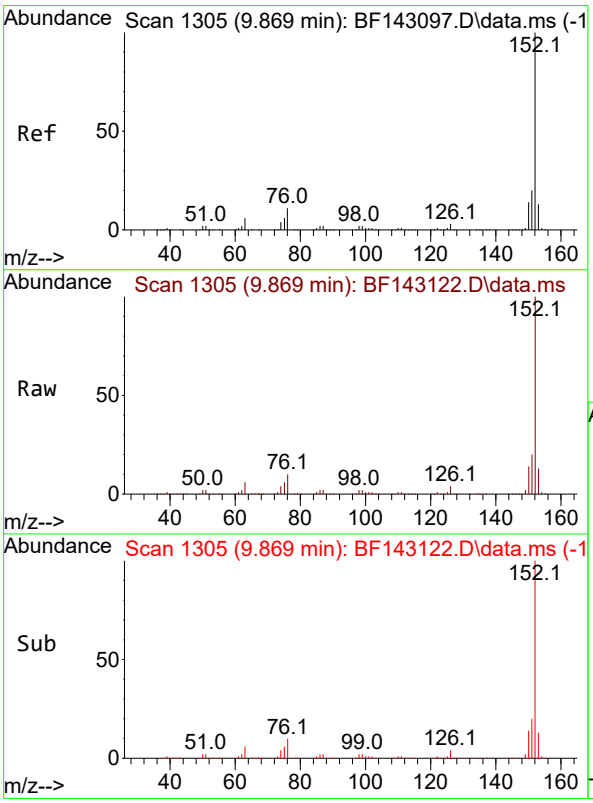
Ion	Ratio	Lower	Upper
65	100		
92	64.3	51.3	76.9
138	95.1	77.8	116.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

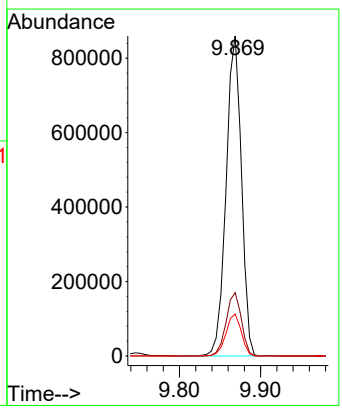
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

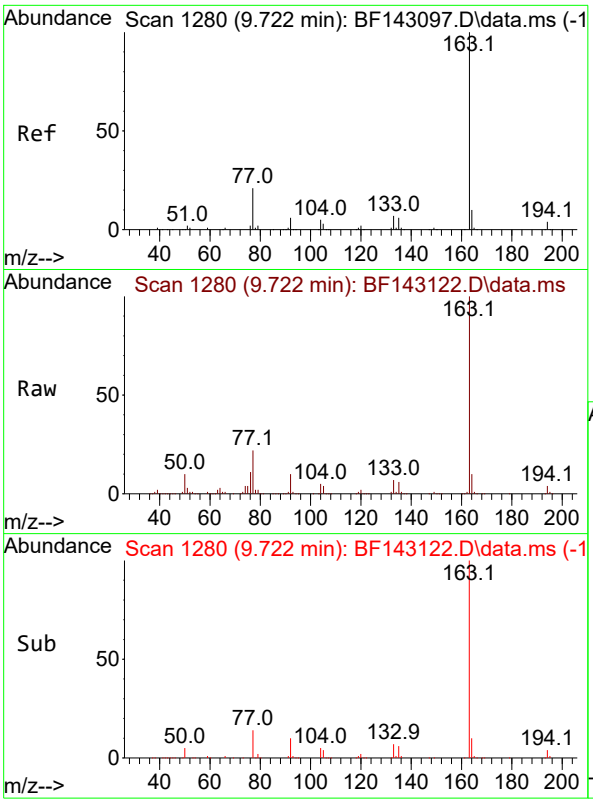


#49
Acenaphthylene
Concen: 41.213 ng
RT: 9.869 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:152 Resp: 1124808

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.8	23.8
153	13.1	10.4	15.6





#50
Dimethylphthalate
Concen: 43.883 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

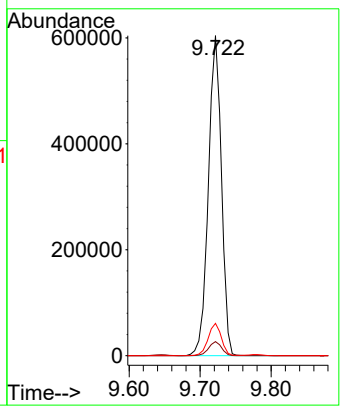
Tgt Ion:163 Resp: 77183

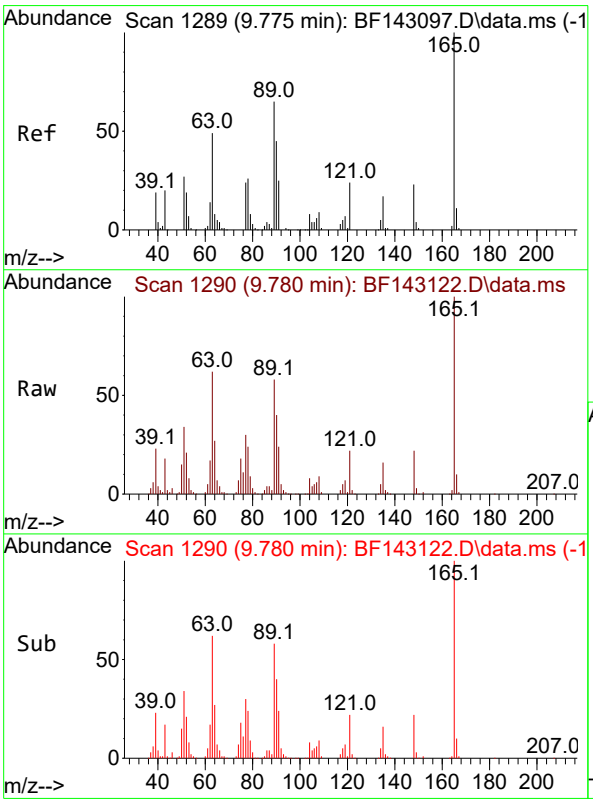
Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.1	8.2	12.2

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

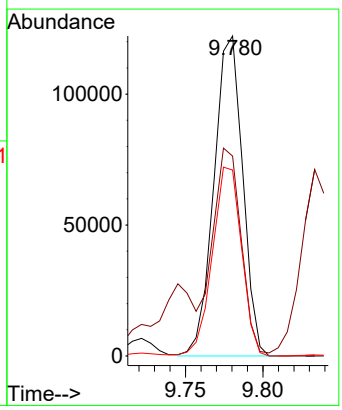


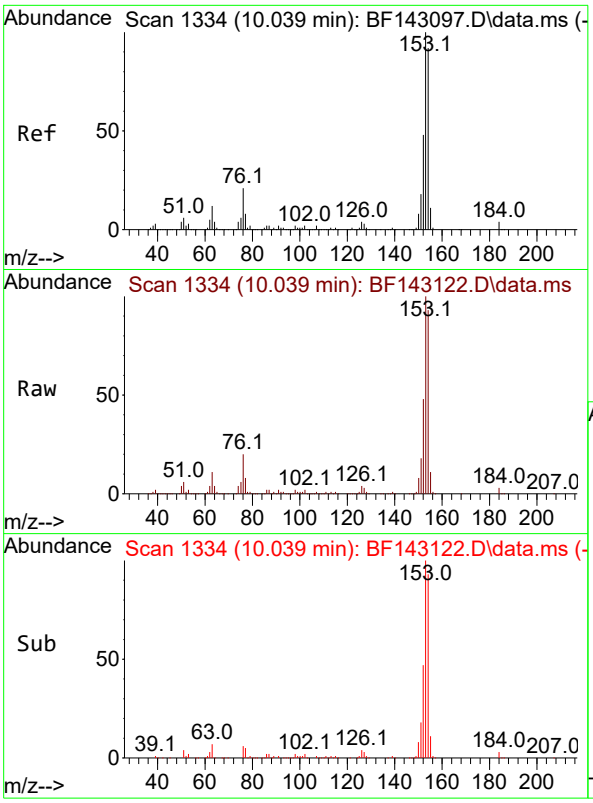


#51
2,6-Dinitrotoluene
Concen: 45.543 ng
RT: 9.780 min Scan# 1290
Delta R.T. 0.005 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:165 Resp: 157757

Ion	Ratio	Lower	Upper
165	100		
63	62.5	57.4	86.0
89	58.1	51.8	77.8

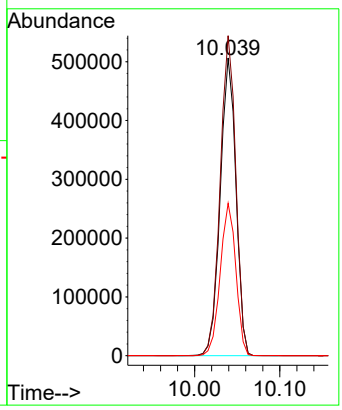




#52
Acenaphthene
Concen: 40.233 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:154 Resp: 64798

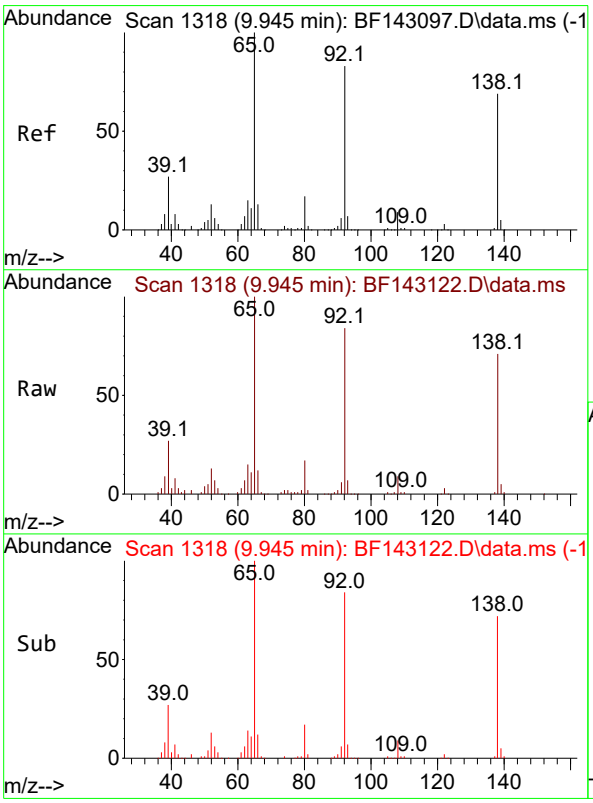
Ion	Ratio	Lower	Upper
154	100		
153	107.5	86.7	130.1
152	51.2	41.4	62.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

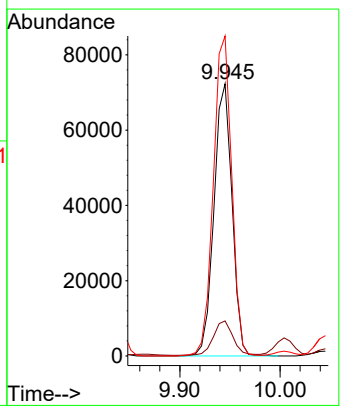
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

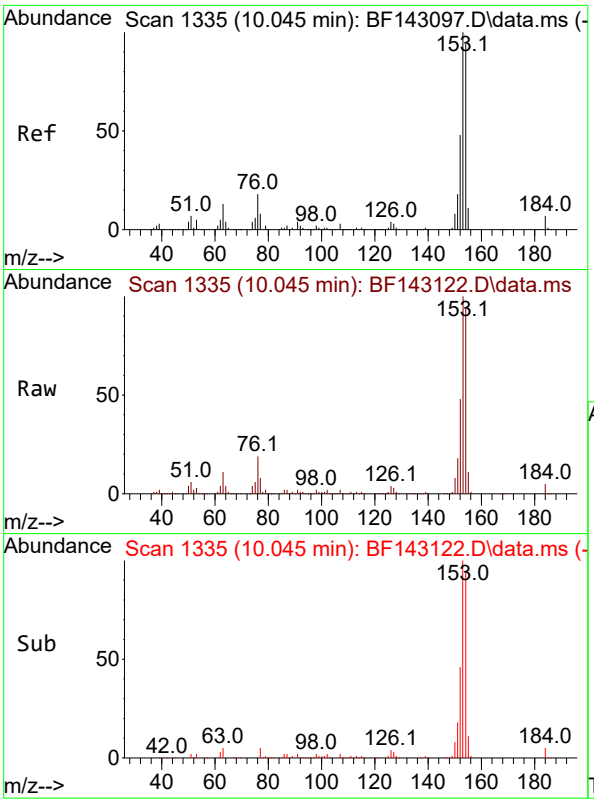


#53
3-Nitroaniline
Concen: 23.807 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:138 Resp: 90479

Ion	Ratio	Lower	Upper
138	100		
108	12.9	10.1	15.1
92	117.6	96.4	144.6

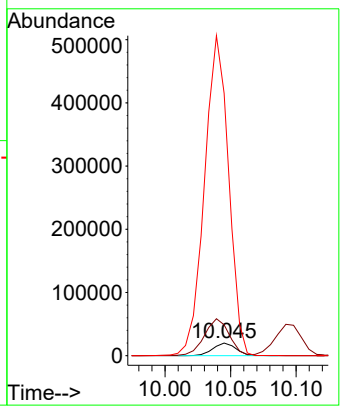




#54
2,4-Dinitrophenol
Concen: 26.899 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:184 Resp: 2419

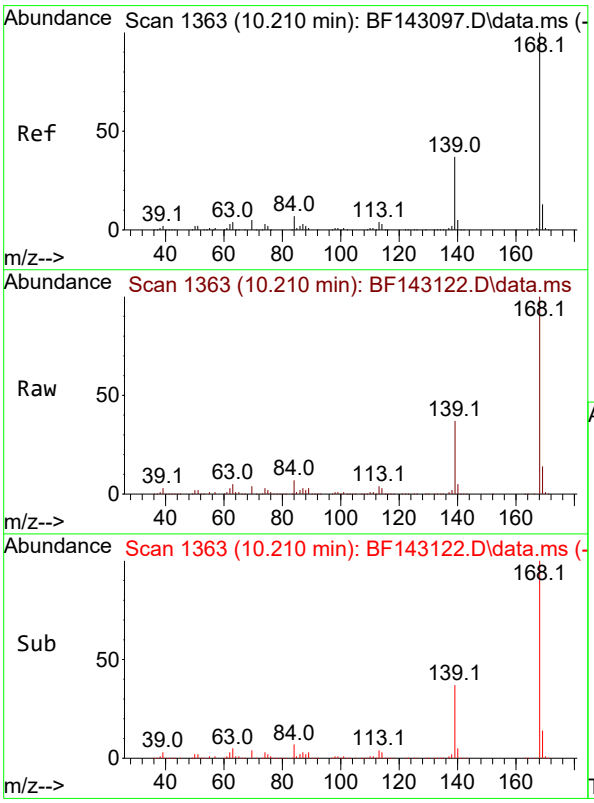
Ion	Ratio	Lower	Upper
184	100		
63	245.7	149.3	223.9
154	2087.2	1048.0	157



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

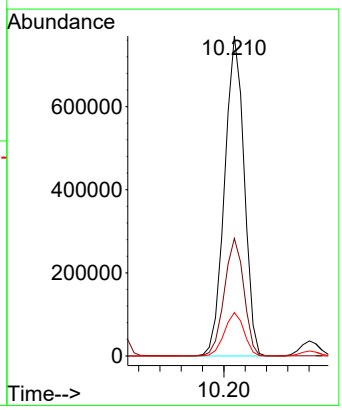
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

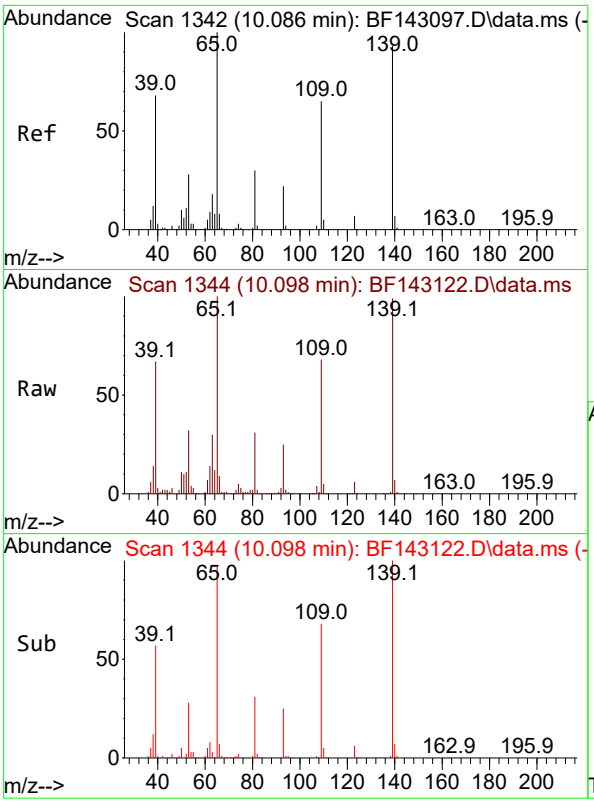


#55
Dibenzofuran
Concen: 40.804 ng
RT: 10.210 min Scan# 1363
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:168 Resp: 979540

Ion	Ratio	Lower	Upper
168	100		
139	36.7	29.8	44.6
169	13.6	10.8	16.2





#56
4-Nitrophenol
Concen: 75.913 ng
RT: 10.098 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

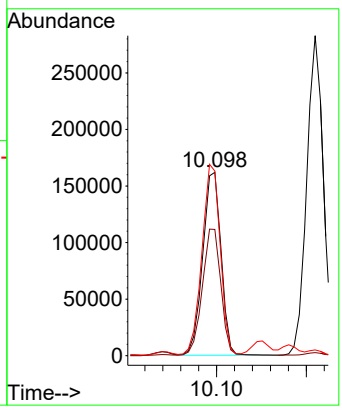
Tgt Ion:139 Resp: 22929

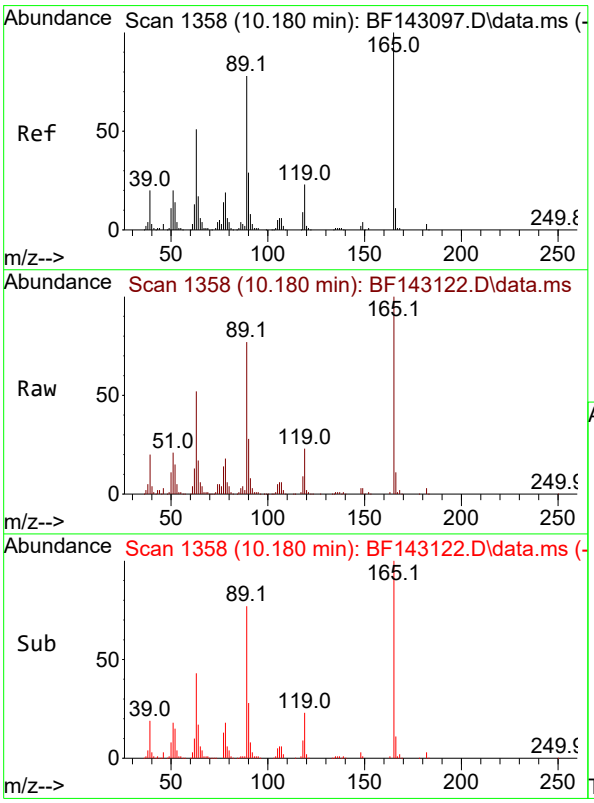
Ion	Ratio	Lower	Upper
139	100		
109	68.8	49.4	89.4
65	100.7	88.2	128.2

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

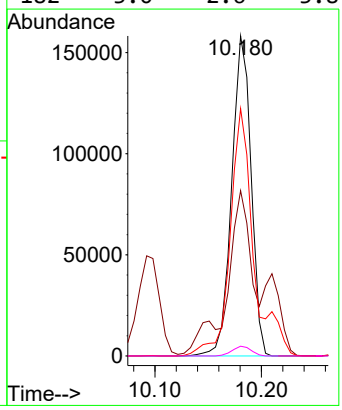


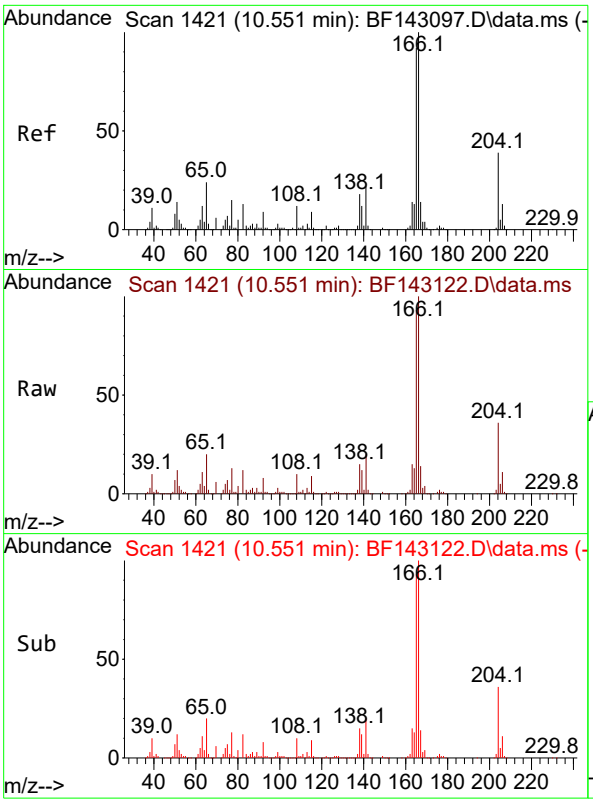


#57
2,4-Dinitrotoluene
Concen: 46.293 ng
RT: 10.180 min Scan# 1358
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:165 Resp: 200358

Ion	Ratio	Lower	Upper
165	100		
63	51.6	40.6	61.0
89	77.3	62.3	93.5
182	3.0	2.6	3.8

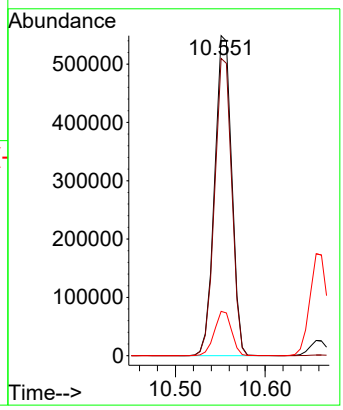




#58
Fluorene
Concen: 40.441 ng
RT: 10.551 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:166 Resp: 72786

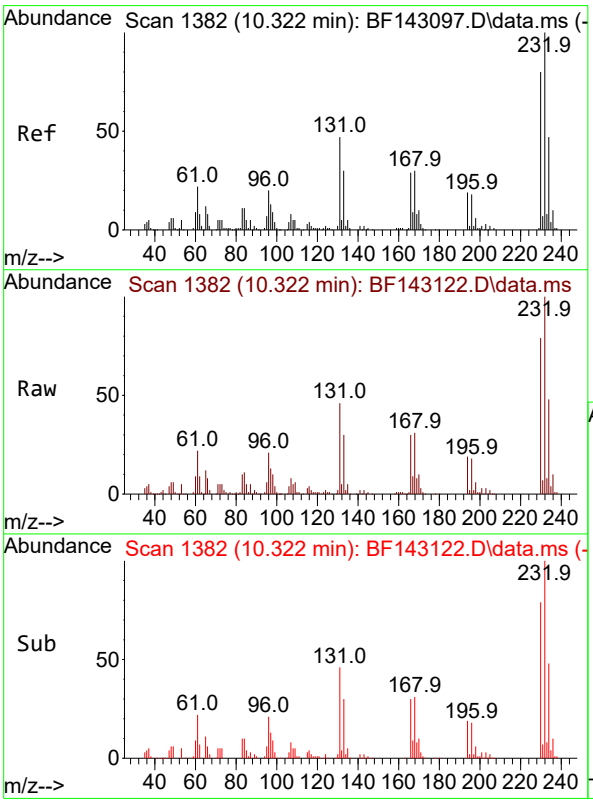
Ion	Ratio	Lower	Upper
166	100		
165	92.9	73.7	110.5
167	13.8	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

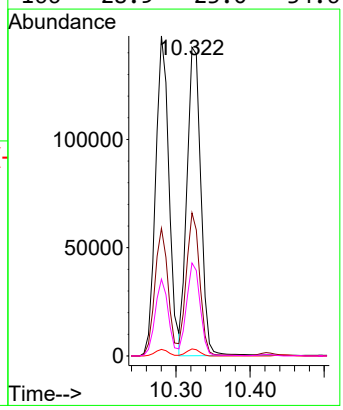
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

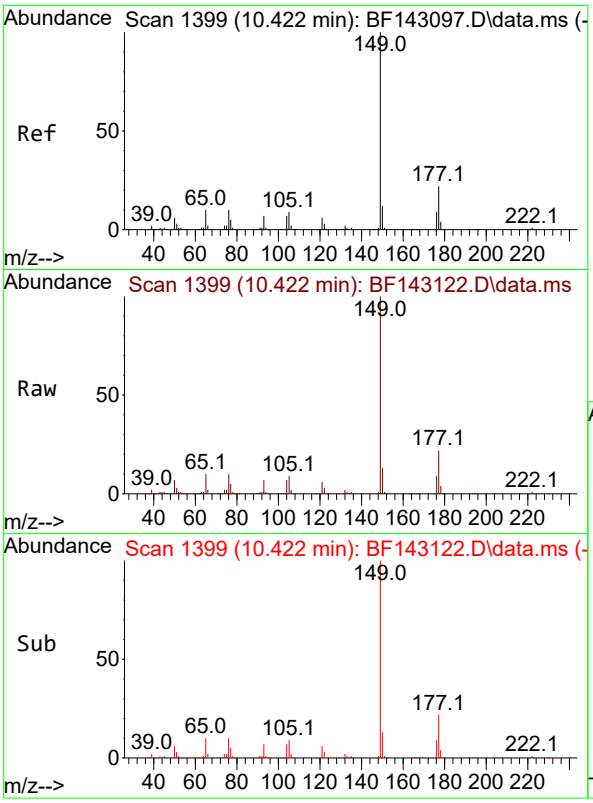


#59
2,3,4,6-Tetrachlorophenol
Concen: 44.054 ng
RT: 10.322 min Scan# 1382
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:232 Resp: 185838

Ion	Ratio	Lower	Upper
232	100		
131	44.7	36.9	55.3
130	2.1	1.8	2.8
166	28.9	23.0	34.6

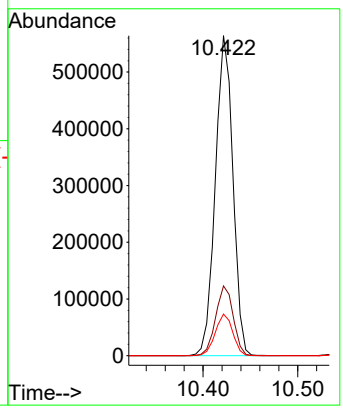




#60
Diethylphthalate
Concen: 42.899 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:149 Resp: 72795

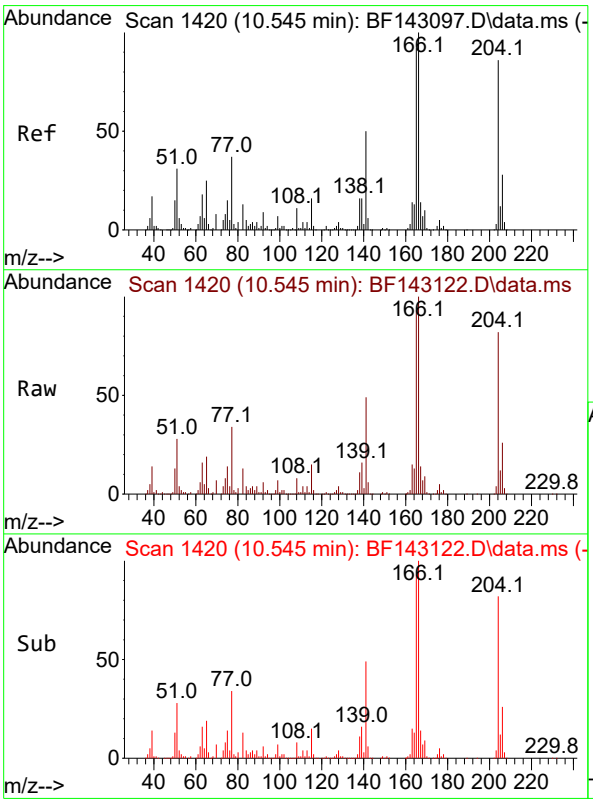
Ion	Ratio	Lower	Upper
149	100		
177	21.8	17.3	25.9
150	13.0	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

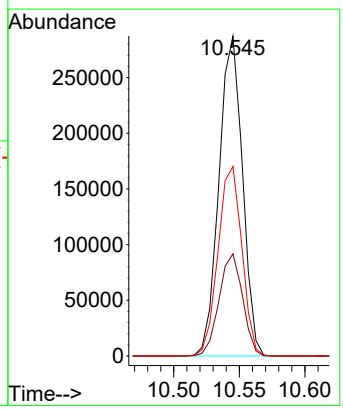
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

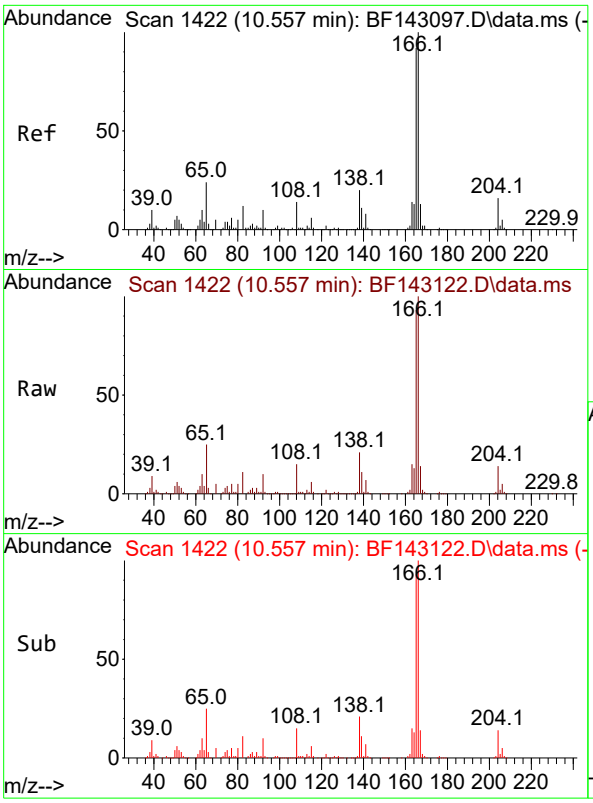


#61
4-Chlorophenyl-phenylether
Concen: 41.424 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:204 Resp: 357337

Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.8	38.6
141	59.2	46.8	70.2

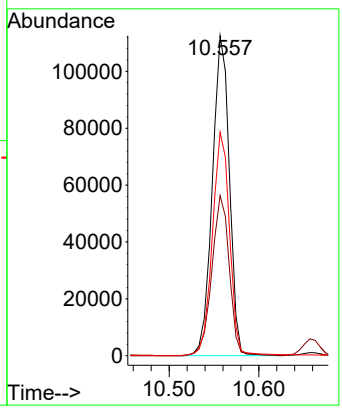




#62
4-Nitroaniline
Concen: 44.897 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:138 Resp: 14838

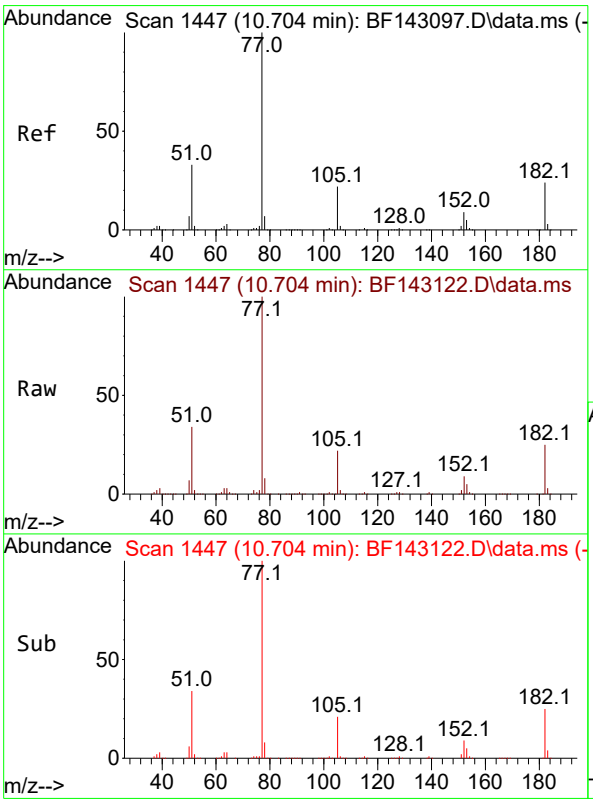
Ion	Ratio	Lower	Upper
138	100		
92	50.0	30.4	70.4
108	69.8	49.5	89.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

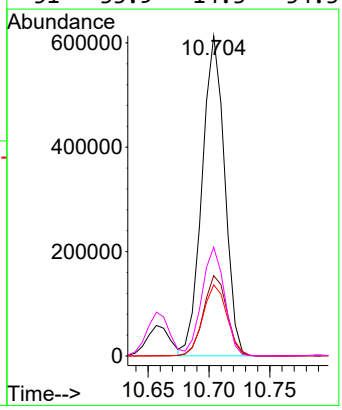
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

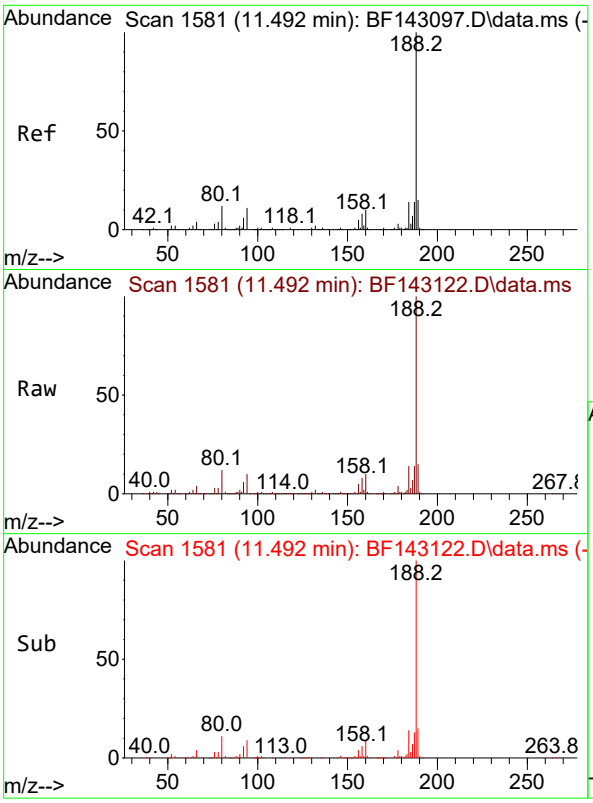


#63
Azobenzene
Concen: 42.054 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion: 77 Resp: 789208

Ion	Ratio	Lower	Upper
77	100		
182	25.1	4.0	44.0
105	22.2	1.4	41.4
51	33.9	14.3	54.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

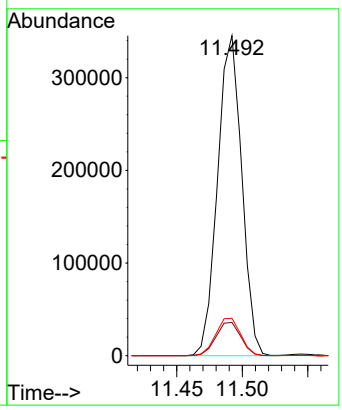
Tgt Ion:188 Resp: 44244

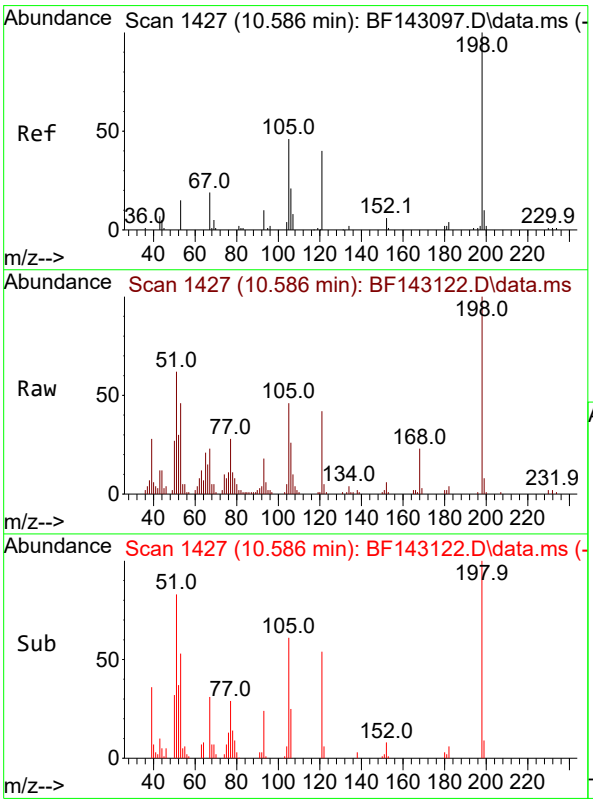
Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.6	13.0
80	11.7	9.3	13.9

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

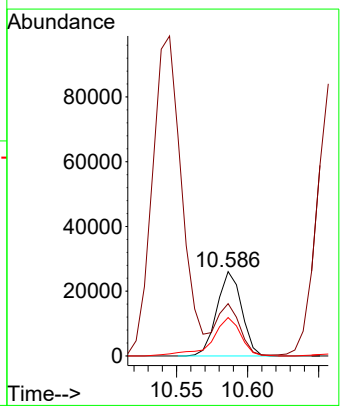


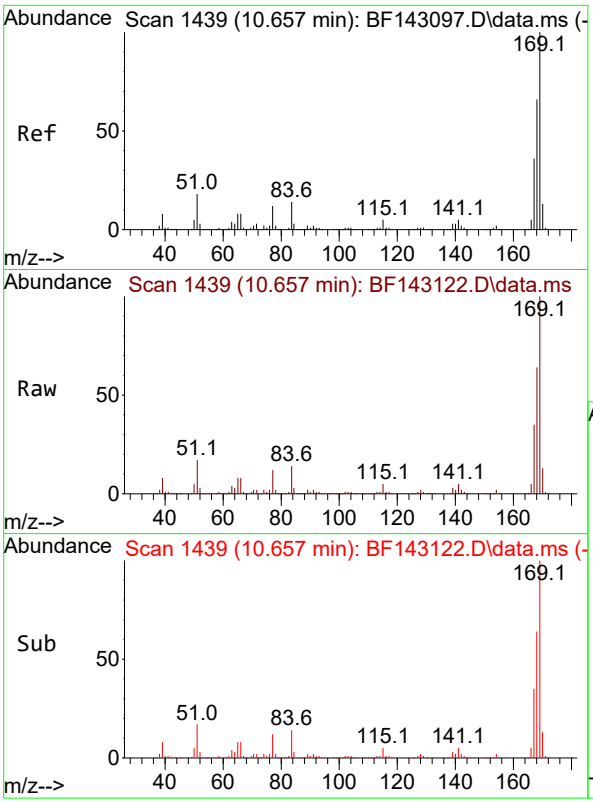


#65
4,6-Dinitro-2-methylphenol
Concen: 24.093 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:198 Resp: 31475

Ion	Ratio	Lower	Upper
198	100		
51	62.0	44.6	84.6
105	45.5	29.3	69.3

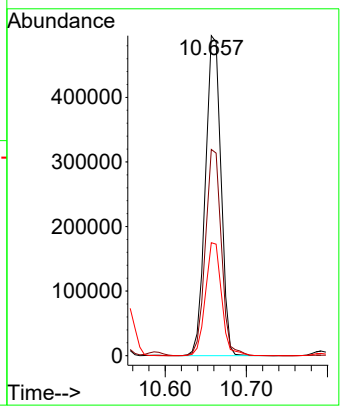




#66
n-Nitrosodiphenylamine
Concen: 42.294 ng
RT: 10.657 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:169 Resp: 65730

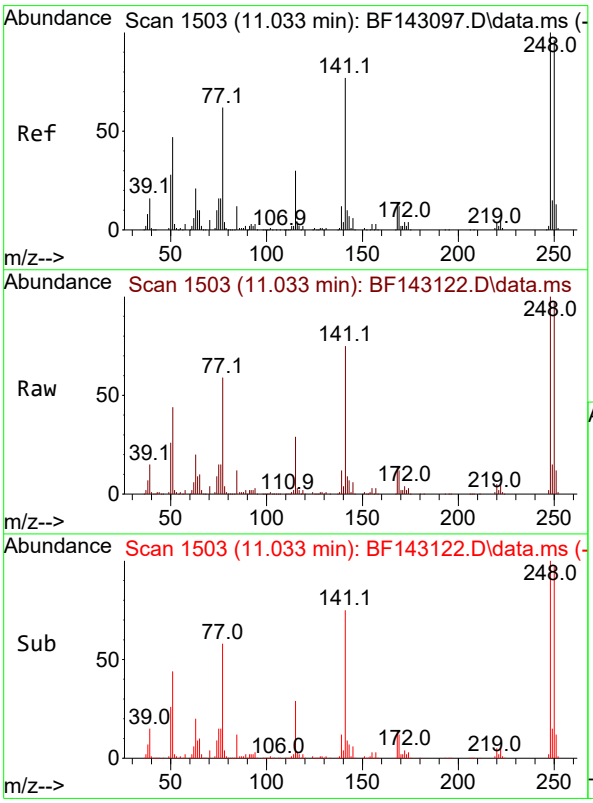
Ion	Ratio	Lower	Upper
169	100		
168	64.5	53.0	79.6
167	35.3	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

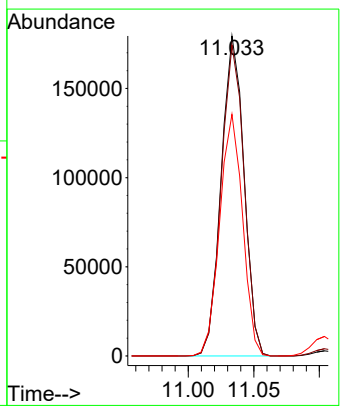
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

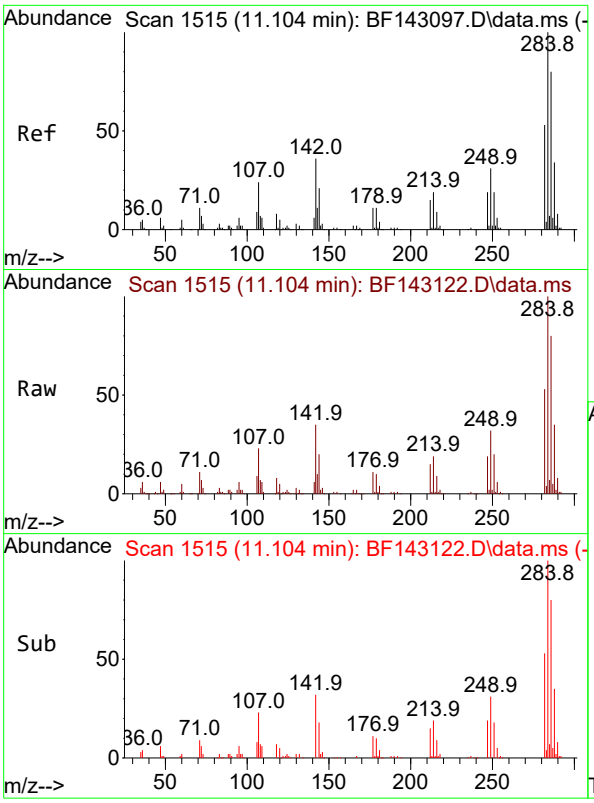


#67
4-Bromophenyl-phenylether
Concen: 43.176 ng
RT: 11.033 min Scan# 1503
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:248 Resp: 217241

Ion	Ratio	Lower	Upper
248	100		
250	97.2	76.7	115.1
141	75.5	61.7	92.5

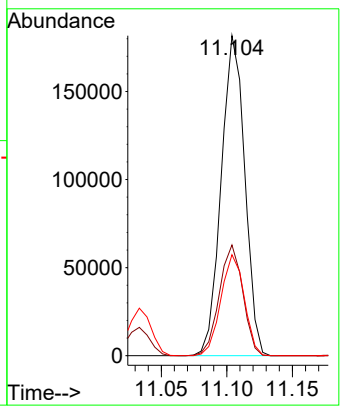




#68
Hexachlorobenzene
Concen: 42.521 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:284 Resp: 22700

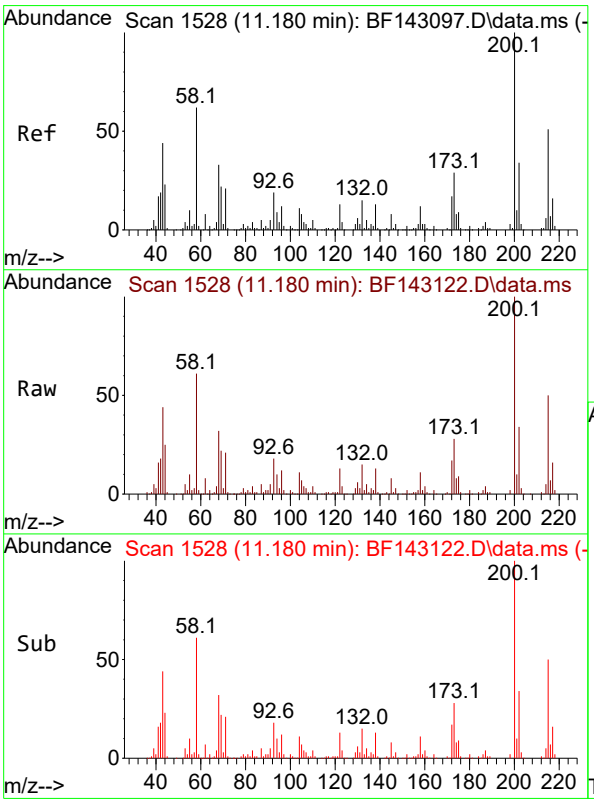
Ion	Ratio	Lower	Upper
284	100		
142	34.6	28.9	43.3
249	31.6	24.6	37.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

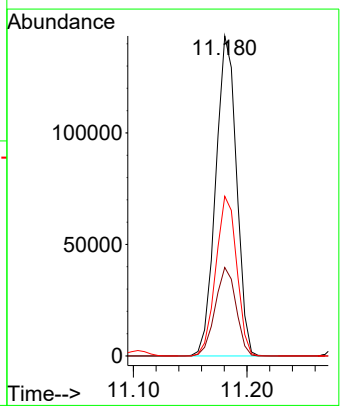
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

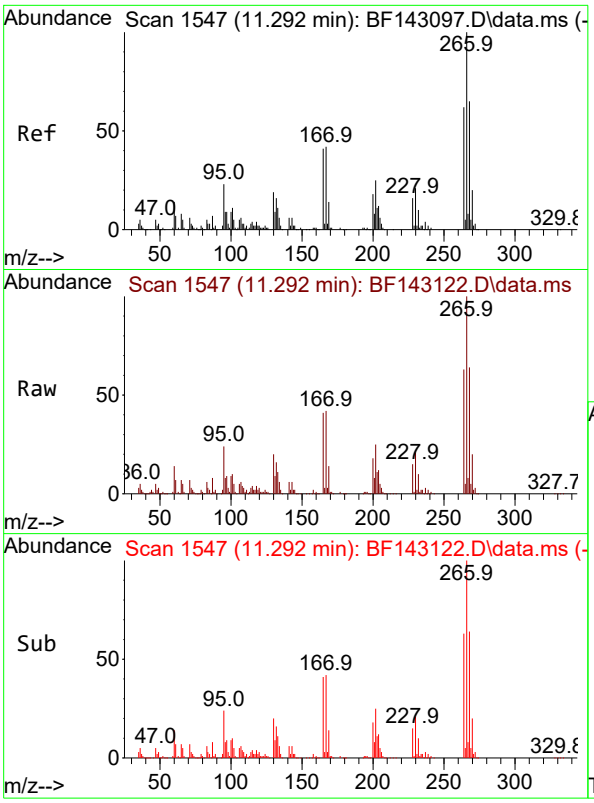


#69
Atrazine
Concen: 45.934 ng
RT: 11.180 min Scan# 1528
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:200 Resp: 182643

Ion	Ratio	Lower	Upper
200	100		
173	27.7	9.1	49.1
215	49.9	31.0	71.0

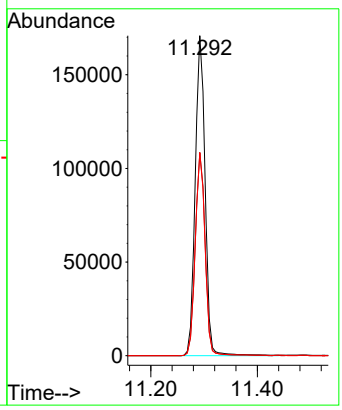




#70
Pentachlorophenol
Concen: 75.092 ng
RT: 11.292 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:266 Resp: 21994

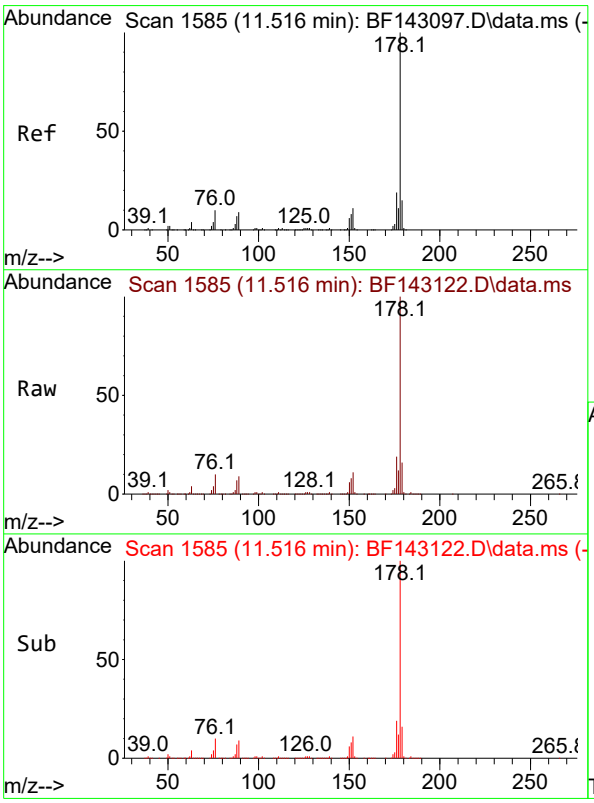
Ion	Ratio	Lower	Upper
266	100		
268	63.5	51.8	77.6
264	63.5	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

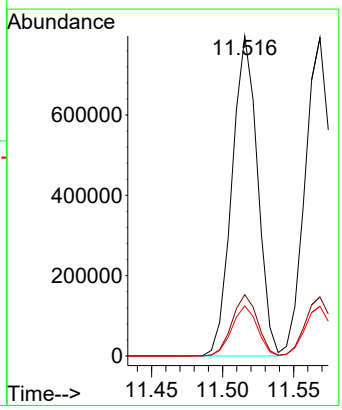
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

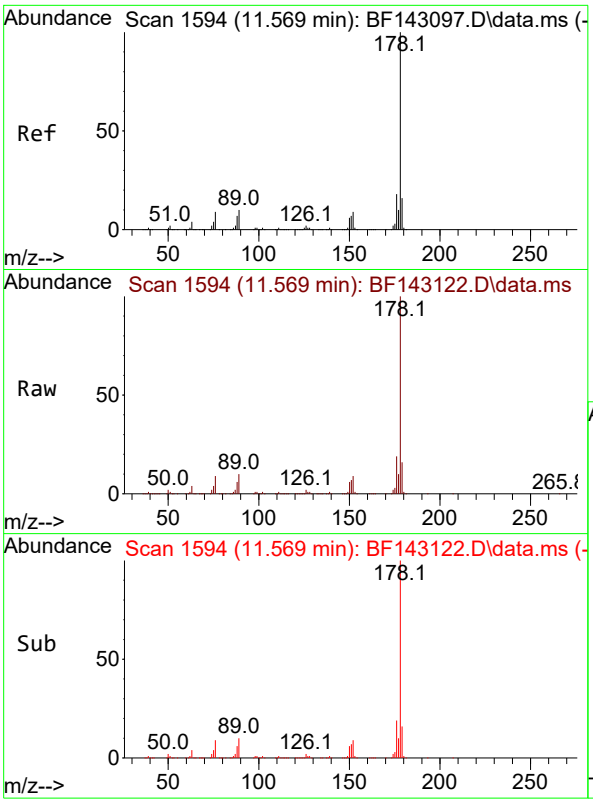


#71
Phenanthrene
Concen: 41.656 ng
RT: 11.516 min Scan# 1585
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:178 Resp: 994655

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	15.6	12.2	18.4

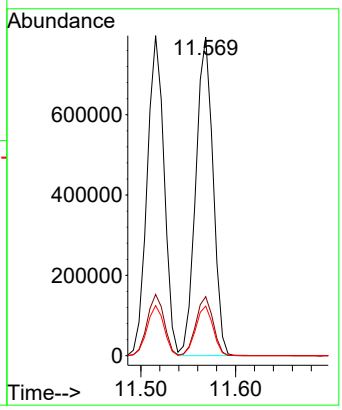




#72
Anthracene
Concen: 41.818 ng
RT: 11.569 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:178 Resp: 100413

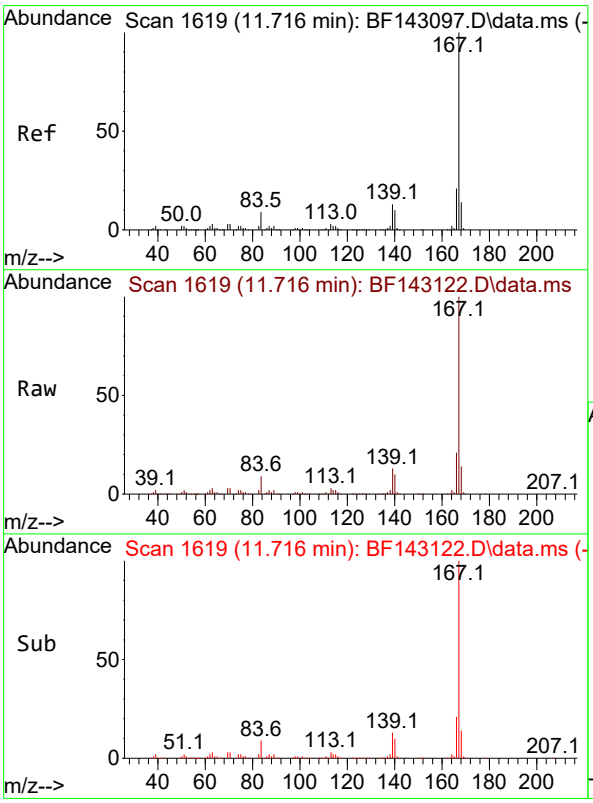
Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.6	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

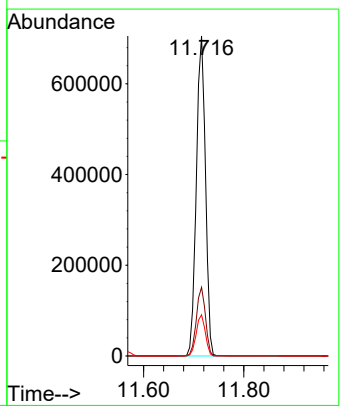
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

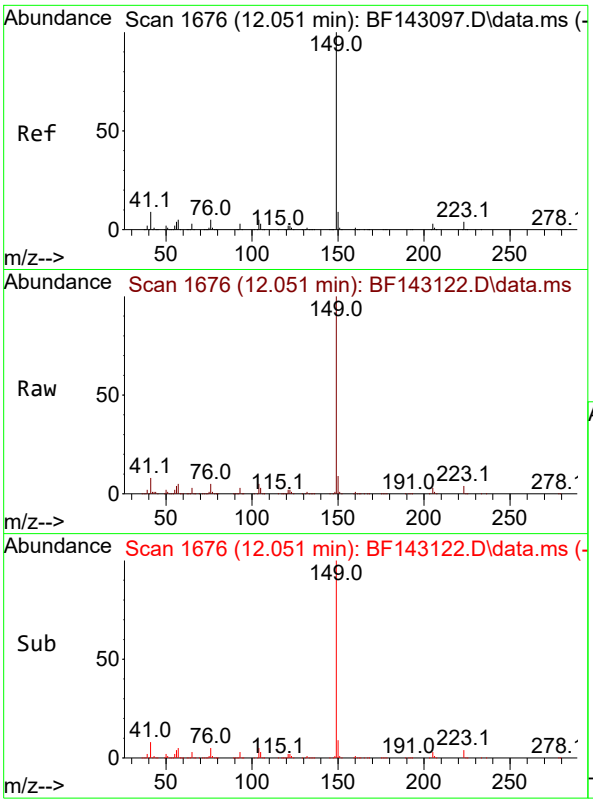


#73
Carbazole
Concen: 41.337 ng
RT: 11.716 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:167 Resp: 889232

Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.4
139	12.9	10.2	15.4

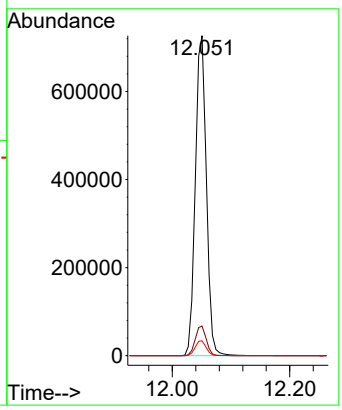




#74
Di-n-butylphthalate
Concen: 47.886 ng
RT: 12.051 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:149 Resp: 94555

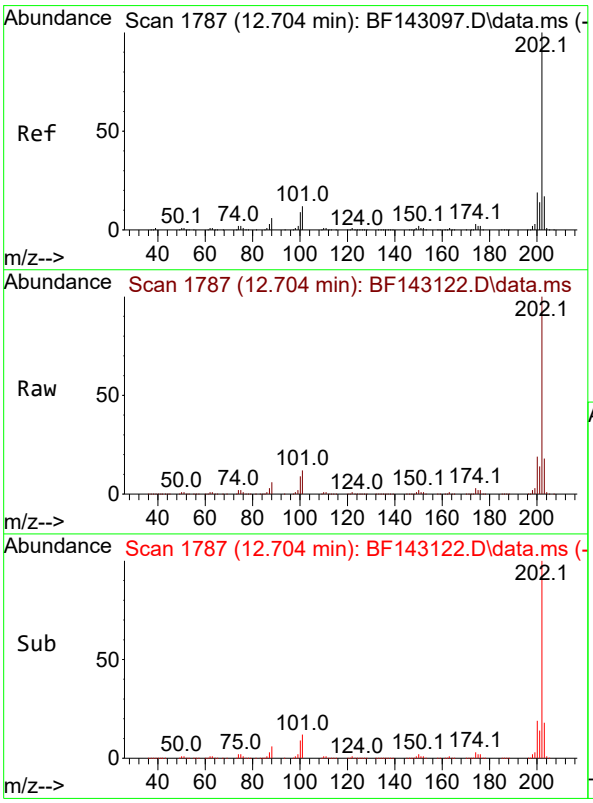
Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.7	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

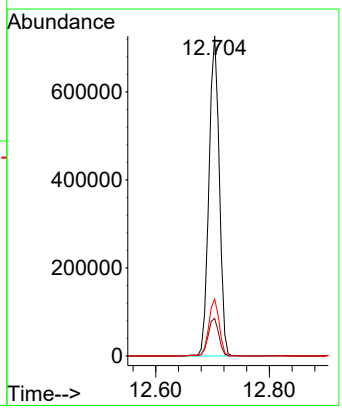
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

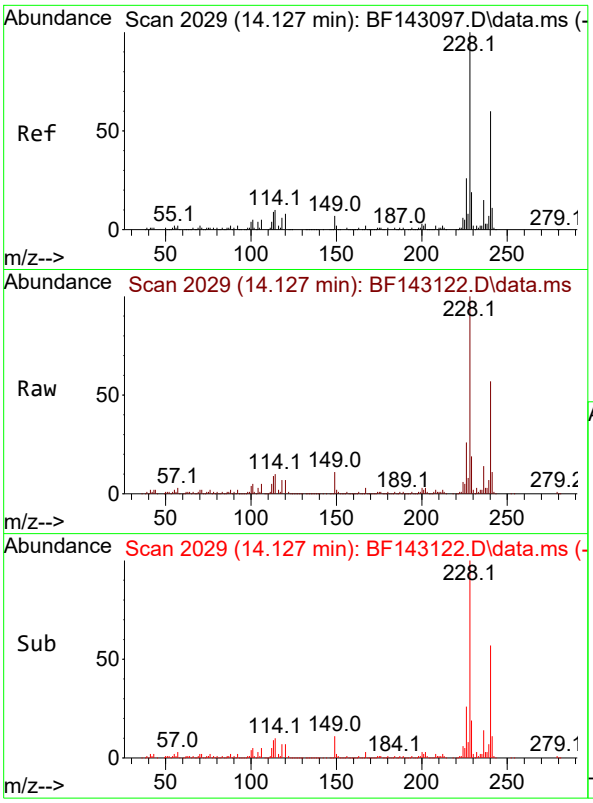


#75
Fluoranthene
Concen: 42.142 ng
RT: 12.704 min Scan# 1787
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:202 Resp: 914970

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.4
203	17.8	0.0	37.4

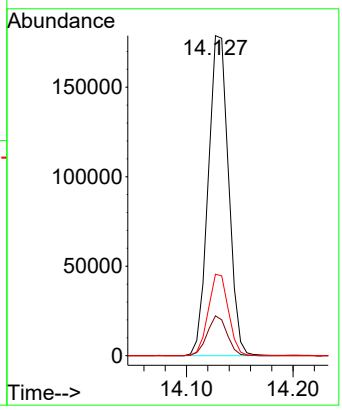




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:240 Resp: 23723

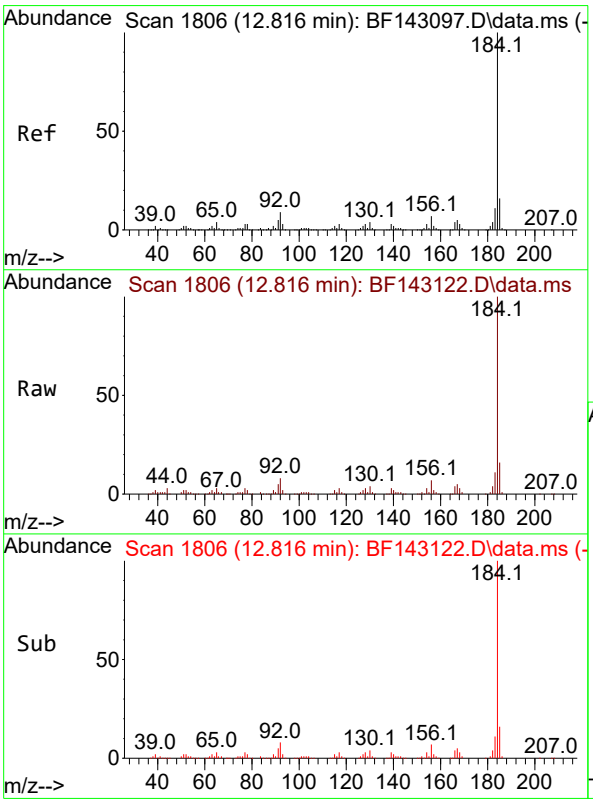
Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	25.4	20.0	30.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

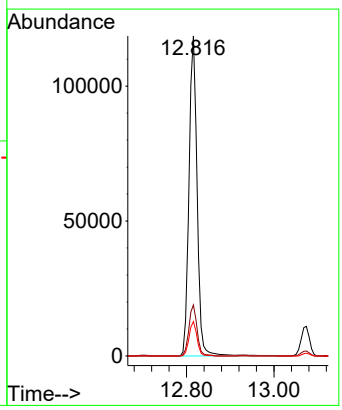
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

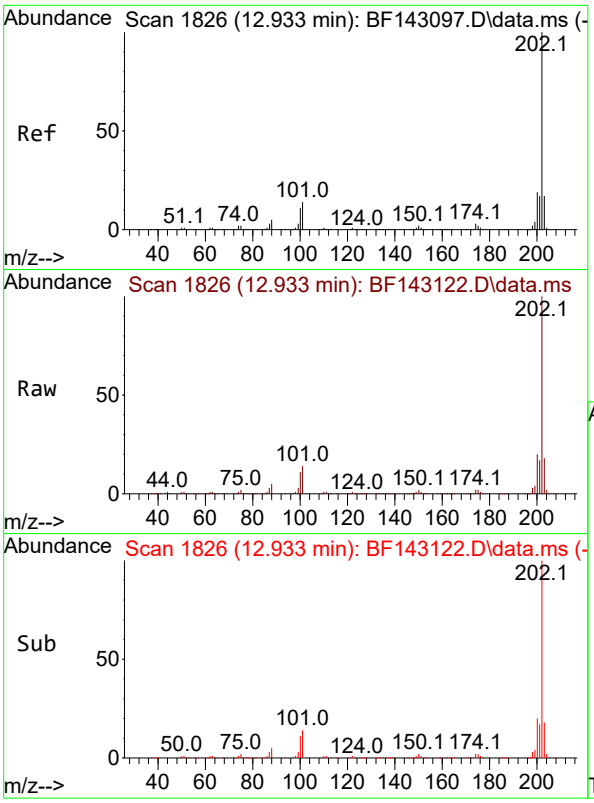


#77
Benzidine
Concen: 18.872 ng
RT: 12.816 min Scan# 1806
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:184 Resp: 152530

Ion	Ratio	Lower	Upper
184	100		
185	16.0	12.4	18.6
183	10.7	8.6	12.8

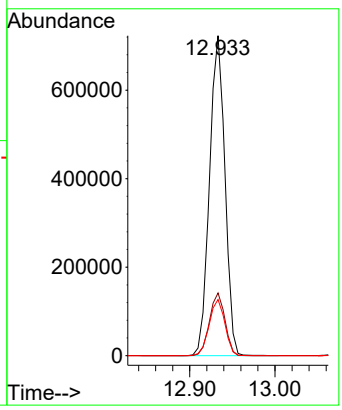




#78
Pyrene
Concen: 41.371 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:202 Resp: 91063

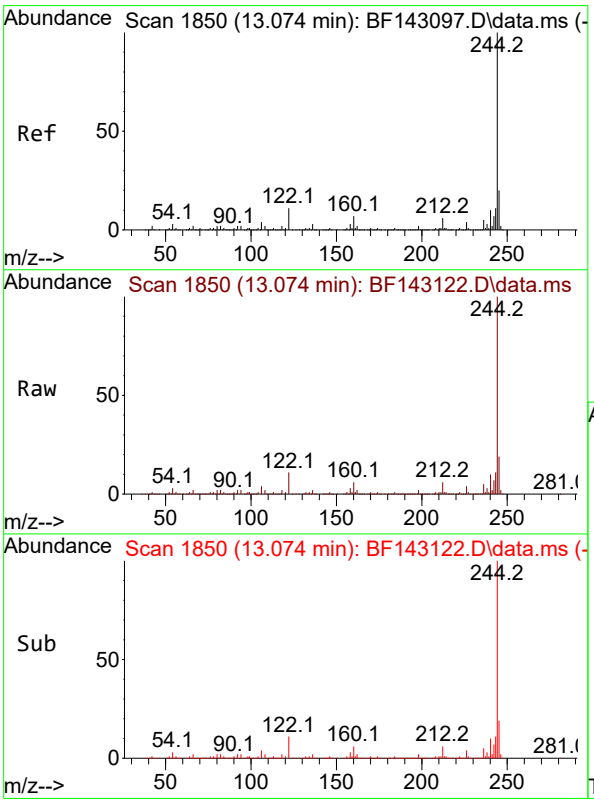
Ion	Ratio	Lower	Upper
202	100		
200	19.6	15.5	23.3
203	17.5	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

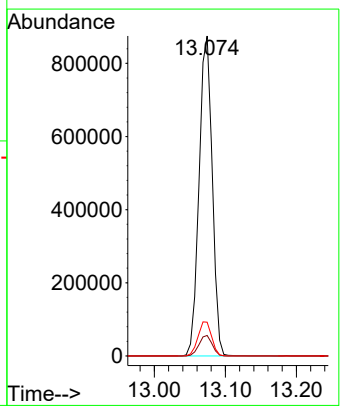
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

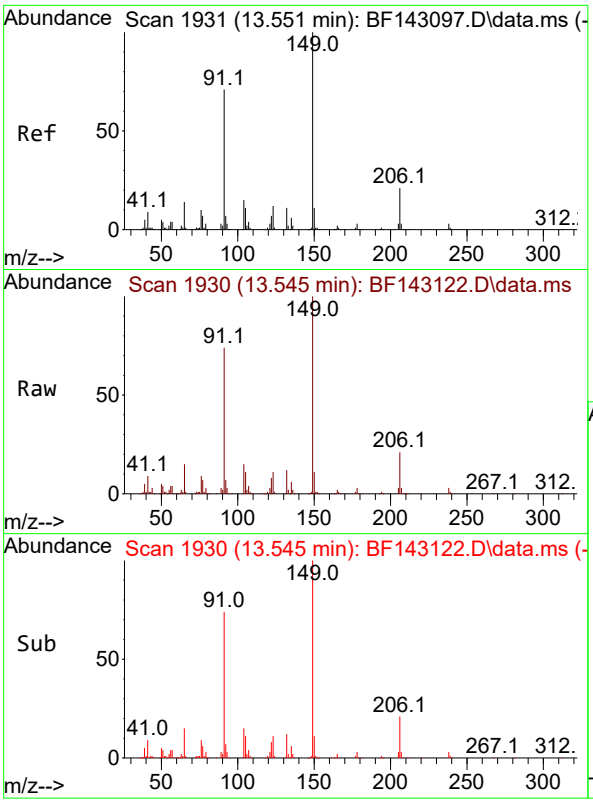


#79
Terphenyl-d14
Concen: 69.646 ng
RT: 13.074 min Scan# 1850
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:244 Resp: 1130292

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	10.5	8.8	13.2

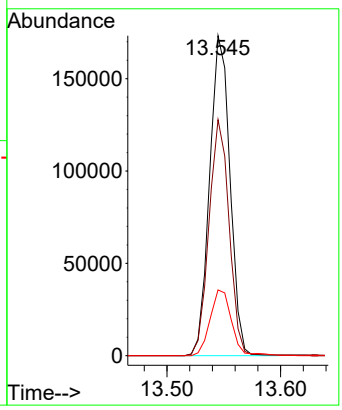




#80
Butylbenzylphthalate
Concen: 48.710 ng
RT: 13.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:149 Resp: 21565

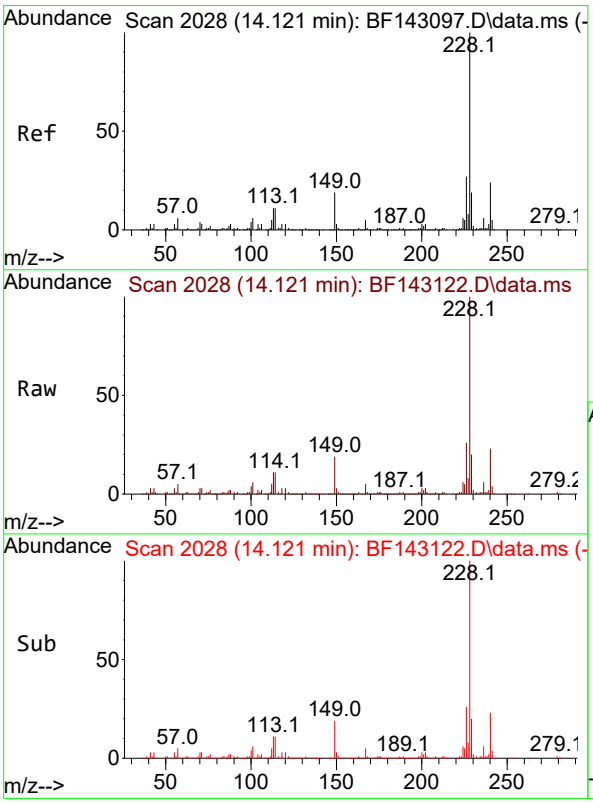
Ion	Ratio	Lower	Upper
149	100		
91	73.8	57.0	85.4
206	20.5	17.2	25.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

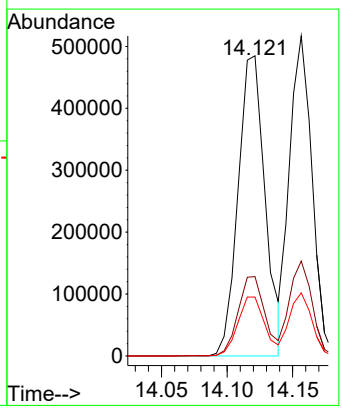
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

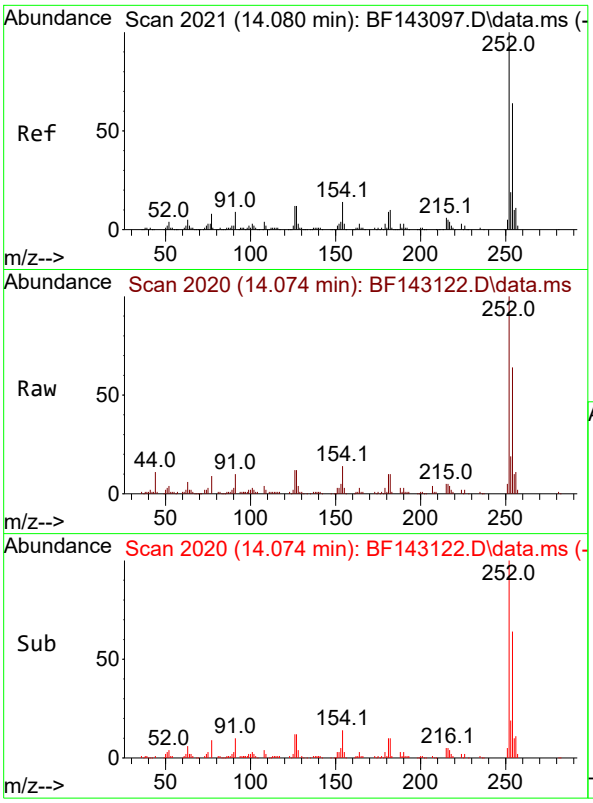


#81
Benzo(a)anthracene
Concen: 43.967 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:228 Resp: 695070

Ion	Ratio	Lower	Upper
228	100		
226	26.4	21.3	31.9
229	19.6	15.5	23.3

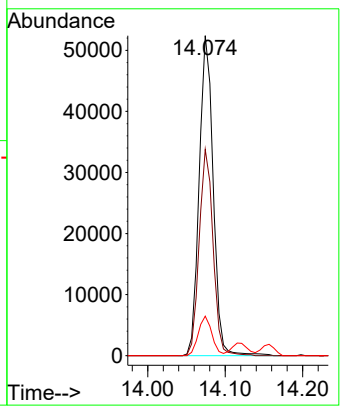




#82
3,3'-Dichlorobenzidine
Concen: 14.346 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:252 Resp: 6586

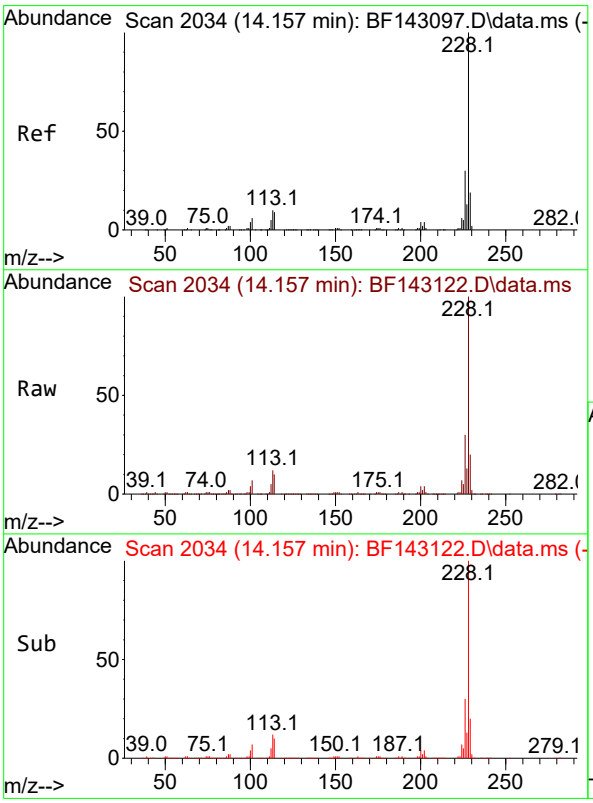
Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.5	77.3
126	12.3	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

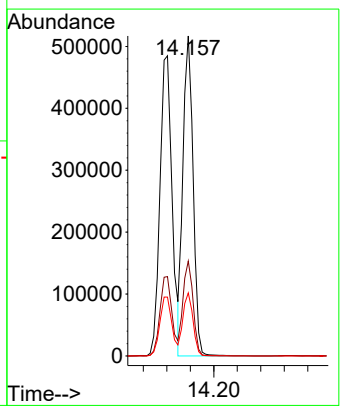
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

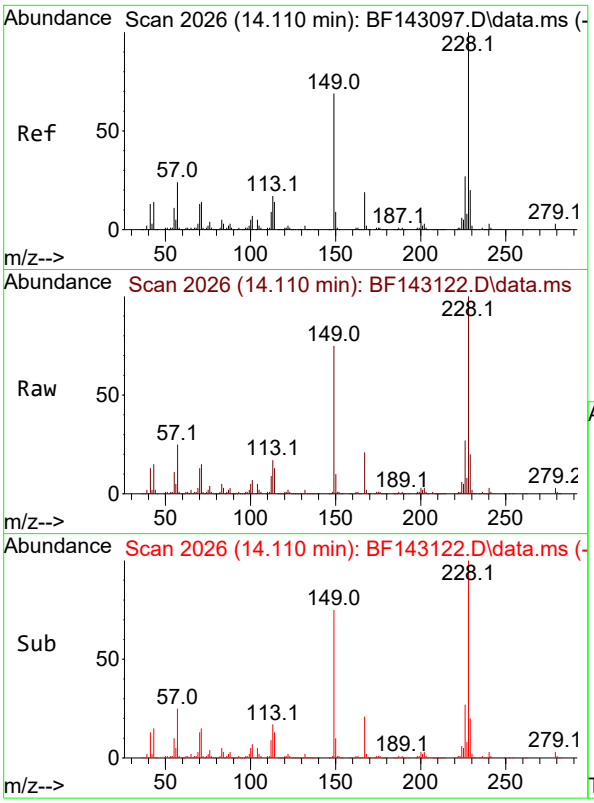


#83
Chrysene
Concen: 42.501 ng
RT: 14.157 min Scan# 2034
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:228 Resp: 618809

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.4	35.2
229	19.7	15.3	22.9





#84
Bis(2-ethylhexyl)phthalate
Concen: 46.699 ng
RT: 14.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

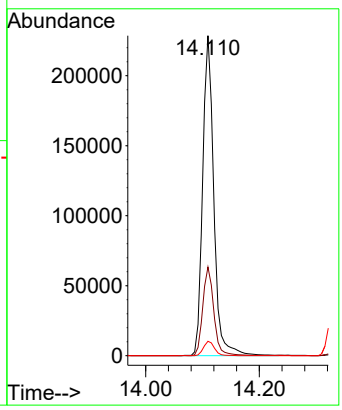
Tgt Ion:149 Resp: 31080

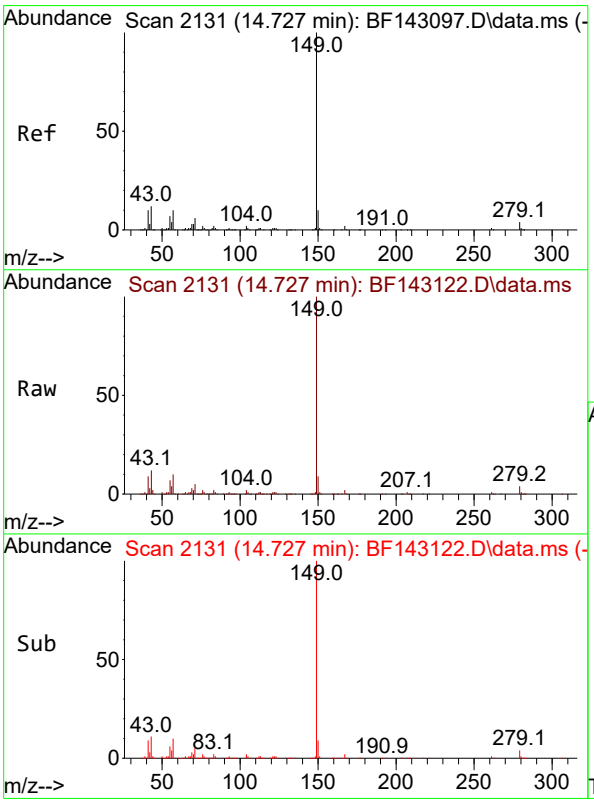
Ion	Ratio	Lower	Upper
149	100		
167	27.7	21.9	32.9
279	4.5	3.4	5.0

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

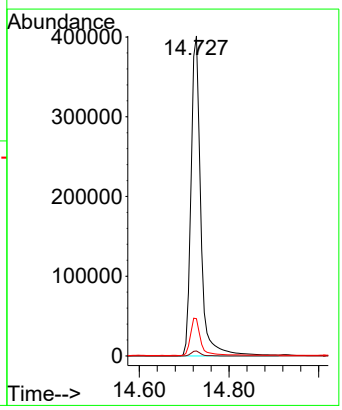


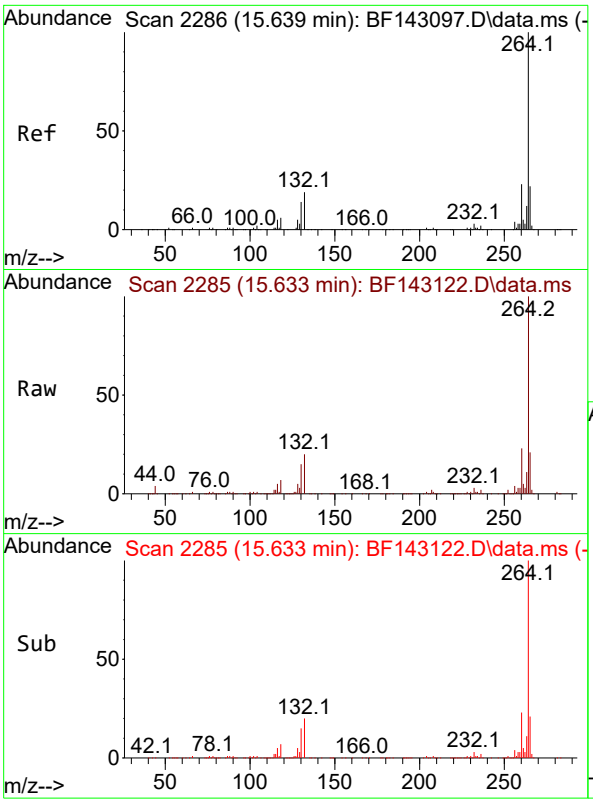


#85
Di-n-octyl phthalate
Concen: 48.177 ng
RT: 14.727 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:149 Resp: 608309

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	12.3	10.6	16.0

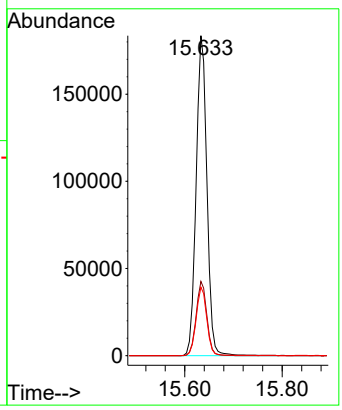




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:264 Resp: 28355

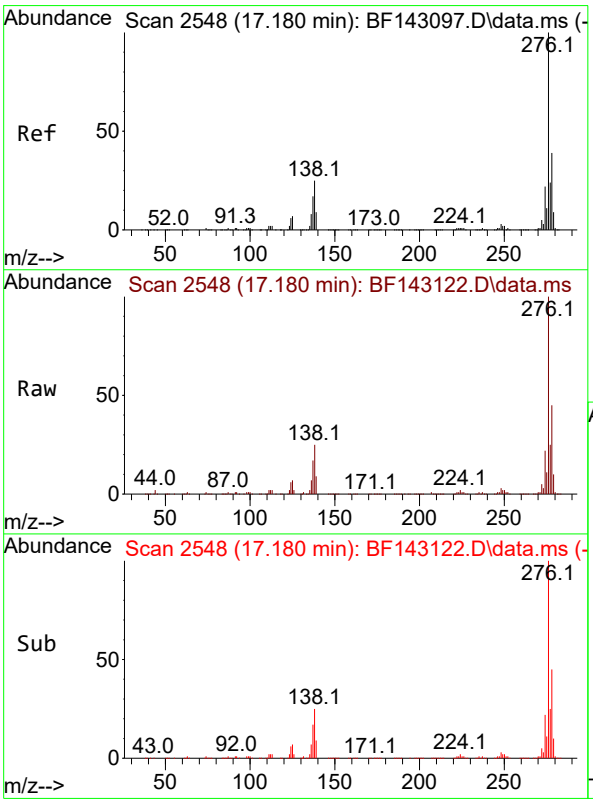
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.5	27.7
265	21.4	17.5	26.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

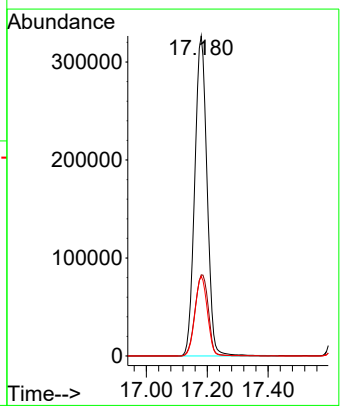
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

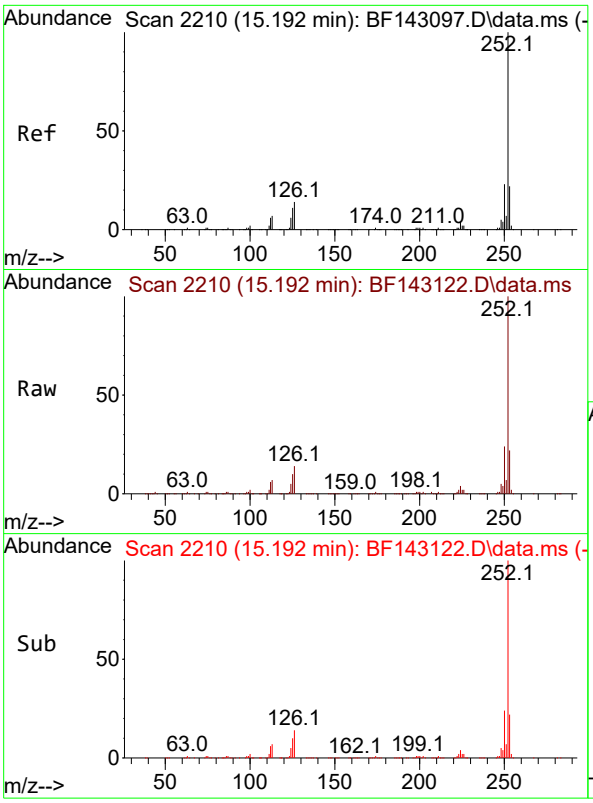


#87
Indeno(1,2,3-cd)pyrene
Concen: 43.399 ng
RT: 17.180 min Scan# 2548
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:276 Resp: 915260

Ion	Ratio	Lower	Upper
276	100		
138	27.4	22.6	34.0
277	25.2	20.2	30.2

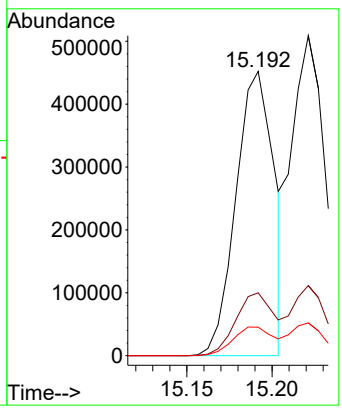




#88
Benzo(b)fluoranthene
Concen: 42.833 ng
RT: 15.192 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:252 Resp: 70057

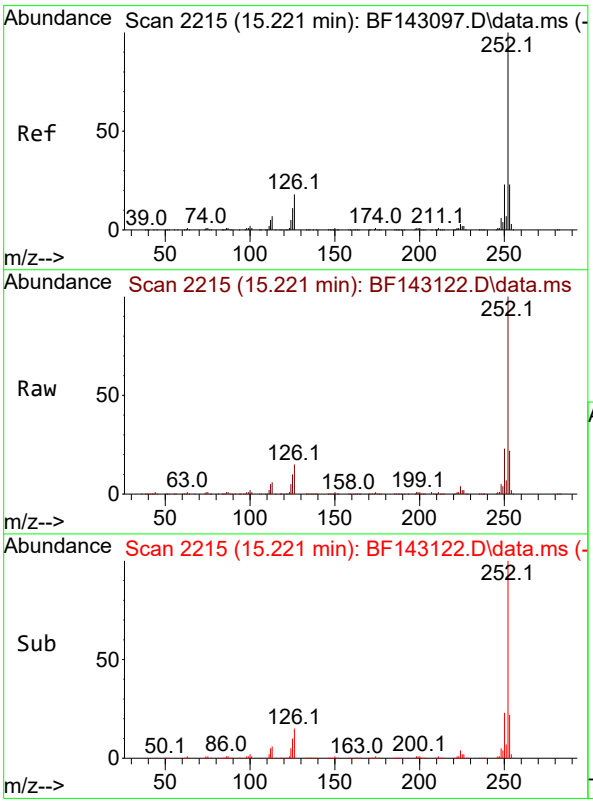
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	10.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

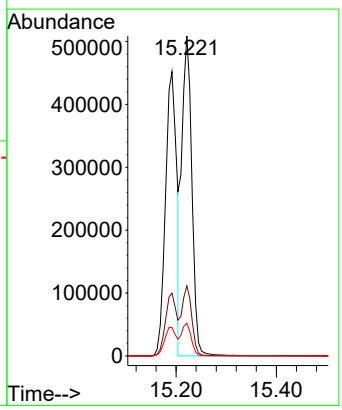
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

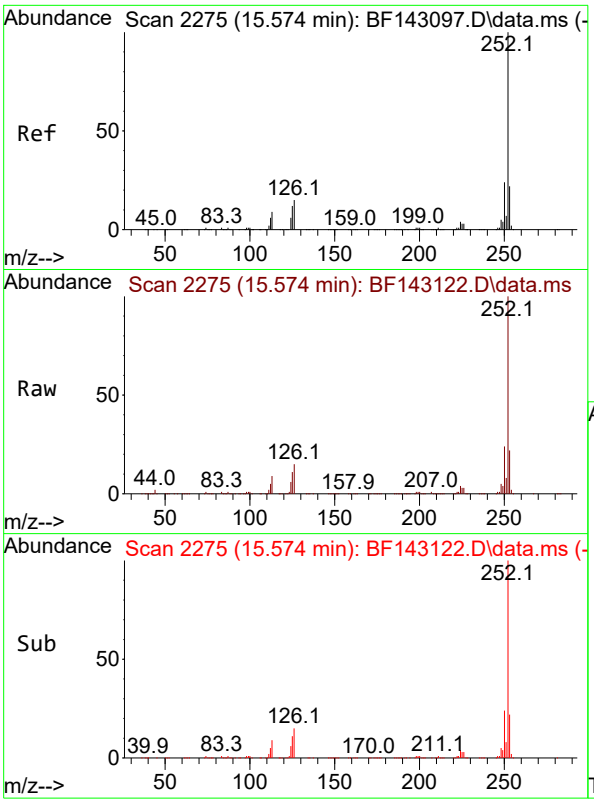


#89
Benzo(k)fluoranthene
Concen: 45.593 ng
RT: 15.221 min Scan# 2215
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:252 Resp: 711413

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	10.2	8.5	12.7

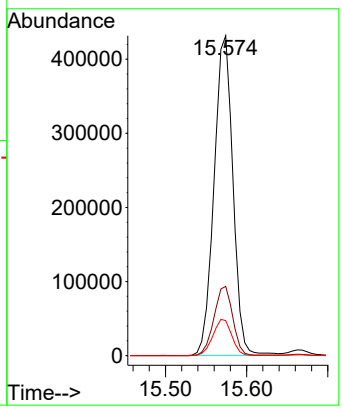




#90
Benzo(a)pyrene
Concen: 45.154 ng
RT: 15.574 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:252 Resp: 69848

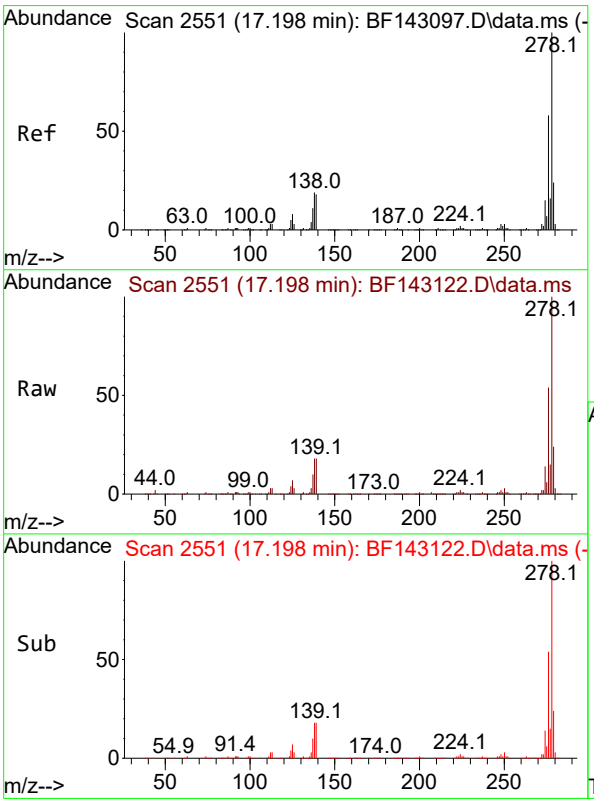
Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	10.9	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

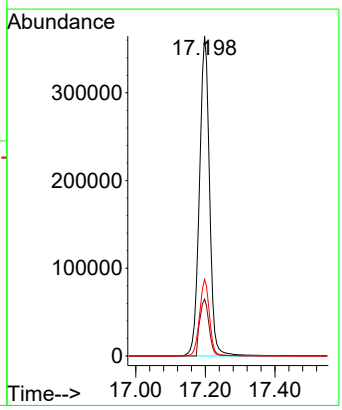
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

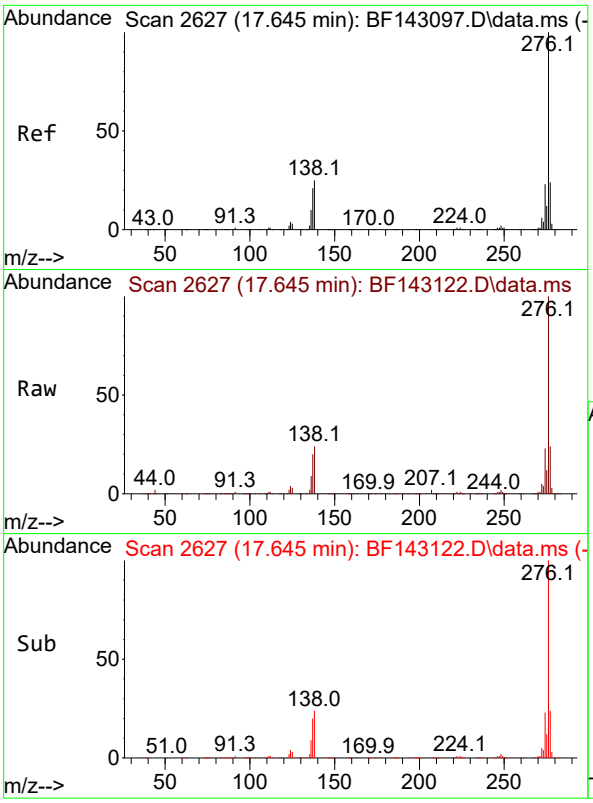


#91
Dibenzo(a,h)anthracene
Concen: 42.753 ng
RT: 17.198 min Scan# 2551
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:278 Resp: 737065

Ion	Ratio	Lower	Upper
278	100		
139	17.8	14.6	22.0
279	23.9	18.8	28.2

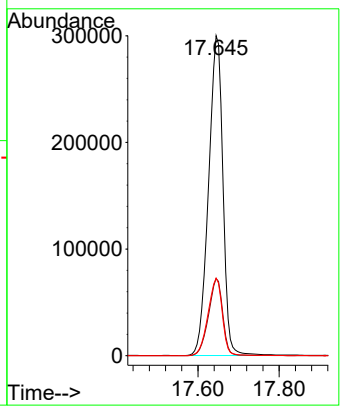




#92
Benzo(g,h,i)perylene
Concen: 41.822 ng
RT: 17.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143122.D
Acq: 16 Jul 2025 22:09

Tgt Ion:276 Resp: 73508

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.2	28.8
138	24.2	19.8	29.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MS

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711MSD	SDG No.:	Q2592
Lab Sample ID:	Q2592-02MSD	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143123.D	1	07/16/25 10:14	07/16/25 22:38	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	290		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		5.30	50.0	ug/L
95-48-7	2-Methylphenol	400		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	400		11.0	100	ug/L
67-72-1	Hexachloroethane	380		6.50	50.0	ug/L
98-95-3	Nitrobenzene	430		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	390		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	440		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	430		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	470		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	440		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	710		15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	100		23 - 138	67%	SPK: 150
13127-88-3	Phenol-d6	96.3		10 - 134	64%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.6		67 - 132	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.6		52 - 132	69%	SPK: 100
118-79-6	2,4,6-Tribromophenol	127		44 - 137	85%	SPK: 150
1718-51-0	Terphenyl-d14	68.7		42 - 152	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	155000	6.969			
1146-65-2	Naphthalene-d8	590000	8.245			
15067-26-2	Acenaphthene-d10	297000	10.004			
1517-22-2	Phenanthrene-d10	462000	11.492			
1719-03-5	Chrysene-d12	243000	14.127			
1520-96-3	Perylene-d12	288000	15.633			

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

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	07/11/25
Project:	Con Edison - East River Site 2	Date Received:	07/11/25
Client Sample ID:	WC-SOIL-20250711MSD	SDG No.:	Q2592
Lab Sample ID:	Q2592-02MSD	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143123.D	1	07/16/25 10:14	07/16/25 22:38	PB168885

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_F\Data\BF071625\
Data File : BF143123.D
Acq On : 16 Jul 2025 22:38
Operator : RC/JU
Sample : Q2592-02MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 03:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.969	152	155046	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	589623	20.000	ng	0.00
39) Acenaphthene-d10	10.004	164	296871	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	461806	20.000	ng	0.00
76) Chrysene-d12	14.127	240	242870	20.000	ng	0.00
86) Perylene-d12	15.633	264	288284	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.604	112	985165	100.389	ng	0.02
7) Phenol-d6	6.587	99	1187920	96.301	ng	0.00
23) Nitrobenzene-d5	7.522	82	868402	82.622	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	335959	126.918	ng	0.00
45) 2-Fluorobiphenyl	9.322	172	1531577	68.578	ng	0.00
79) Terphenyl-d14	13.074	244	1141518	68.707	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.051	88	158532	32.453	ng	# 88
3) Pyridine	3.746	79	359677	29.076	ng	99
4) n-Nitrosodimethylamine	3.657	42	235146	36.690	ng	99
6) Aniline	6.628	93	248322	14.295	ng	99
8) 2-Chlorophenol	6.751	128	399351	40.503	ng	98
9) Benzaldehyde	6.516	77	208065	22.136	ng	99
10) Phenol	6.604	94	474280	35.516	ng	100
11) bis(2-Chloroethyl)ether	6.698	93	401788	38.865	ng	100
12) 1,3-Dichlorobenzene	6.910	146	401439	36.039	ng	99
13) 1,4-Dichlorobenzene	6.986	146	403710	36.025	ng	99
14) 1,2-Dichlorobenzene	7.139	146	390356	36.527	ng	100
15) Benzyl Alcohol	7.098	79	377846	41.339	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.239	45	712236	37.375	ng	99
17) 2-Methylphenol	7.210	107	341828	40.174	ng	99
18) Hexachloroethane	7.486	117	140139	38.414	ng	98
19) n-Nitroso-di-n-propyla...	7.375	70	303492	40.159	ng	99
20) 3+4-Methylphenols	7.363	107	420120	40.262	ng	97
22) Acetophenone	7.369	105	555372	39.074	ng	# 93
24) Nitrobenzene	7.545	77	436738	43.043	ng	99
25) Isophorone	7.781	82	836111	41.156	ng	99
26) 2-Nitrophenol	7.857	139	183091	45.388	ng	97
27) 2,4-Dimethylphenol	7.892	122	393628	41.746	ng	99
28) bis(2-Chloroethoxy)met...	7.992	93	511274	41.502	ng	99
29) 2,4-Dichlorophenol	8.098	162	331282	42.946	ng	99
30) 1,2,4-Trichlorobenzene	8.186	180	342733	39.150	ng	98
31) Naphthalene	8.269	128	1148259	39.217	ng	100
33) 4-Chloroaniline	8.310	127	45970	3.904	ng	98
34) Hexachlorobutadiene	8.392	225	205545	39.259	ng	99
35) Caprolactam	8.663	113	86853m	36.057	ng	
36) 4-Chloro-3-methylphenol	8.786	107	366909	42.700	ng	98
37) 2-Methylnaphthalene	8.963	142	713317	40.837	ng	100
38) 1-Methylnaphthalene	9.063	142	735969	40.624	ng	100
40) 1,2,4,5-Tetrachloroben...	9.128	216	345751	39.964	ng	99
41) Hexachlorocyclopentadiene	9.122	237	383185	79.887	ng	98
43) 2,4,6-Trichlorophenol	9.233	196	237559	44.192	ng	98
44) 2,4,5-Trichlorophenol	9.275	196	243096	43.128	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143123.D
Acq On : 16 Jul 2025 22:38
Operator : RC/JU
Sample : Q2592-02MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 17 03:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	9.428	154	957169	40.430	ng		99
47) 2-Chloronaphthalene	9.451	162	694587	39.937	ng		99
48) 2-Nitroaniline	9.539	65	227895	44.159	ng		96
49) Acenaphthylene	9.869	152	1183859	40.849	ng		99
50) Dimethylphthalate	9.722	163	822343	44.031	ng		100
51) 2,6-Dinitrotoluene	9.780	165	167499	45.539	ng		91
52) Acenaphthene	10.039	154	682900	39.930	ng		100
53) 3-Nitroaniline	9.945	138	97193	24.084	ng		99
54) 2,4-Dinitrophenol	10.045	184	22054	24.116	ng	#	1
55) Dibenzofuran	10.210	168	1040598	40.822	ng		99
56) 4-Nitrophenol	10.098	139	226579	70.644	ng		97
57) 2,4-Dinitrotoluene	10.180	165	214229	46.591	ng		99
58) Fluorene	10.557	166	764679	40.011	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.327	232	199674	44.577	ng		98
60) Diethylphthalate	10.422	149	771529	42.818	ng		99
61) 4-Chlorophenyl-phenyle...	10.545	204	381957	41.698	ng		99
62) 4-Nitroaniline	10.557	138	152045	43.324	ng		98
63) Azobenzene	10.704	77	841015	42.203	ng		99
65) 4,6-Dinitro-2-methylph...	10.586	198	29165	22.144	ng		98
66) n-Nitrosodiphenylamine	10.663	169	682136	42.051	ng		99
67) 4-Bromophenyl-phenylether	11.033	248	230049	43.804	ng		98
68) Hexachlorobenzene	11.104	284	243166	43.638	ng		97
69) Atrazine	11.180	200	192588	46.405	ng		96
70) Pentachlorophenol	11.292	266	218021	71.314	ng		99
71) Phenanthrene	11.516	178	1028670	41.274	ng		100
72) Anthracene	11.569	178	1040808	41.528	ng		99
73) Carbazole	11.716	167	918194	40.894	ng		100
74) Di-n-butylphthalate	12.051	149	973531	47.235	ng		100
75) Fluoranthene	12.704	202	940517	41.503	ng		99
77) Benzidine	12.816	184	133752	16.165	ng		99
78) Pyrene	12.933	202	913146	40.522	ng		99
80) Butylbenzylphthalate	13.545	149	226545	49.895	ng		98
81) Benzo(a)anthracene	14.121	228	700338	43.273	ng		99
82) 3,3'-Dichlorobenzidine	14.074	252	72202	15.363	ng		99
83) Chrysene	14.157	228	626869	42.056	ng		99
84) Bis(2-ethylhexyl)phtha...	14.110	149	344266	50.248	ng		100
85) Di-n-octyl phthalate	14.727	149	680638	52.034	ng		98
87) Indeno(1,2,3-cd)pyrene	17.180	276	928932	43.324	ng		99
88) Benzo(b)fluoranthene	15.192	252	707624	42.554	ng		99
89) Benzo(k)fluoranthene	15.221	252	722763	45.560	ng		100
90) Benzo(a)pyrene	15.574	252	704754	44.811	ng		99
91) Dibenzo(a,h)anthracene	17.198	278	764803	43.634	ng		99
92) Benzo(g,h,i)perylene	17.645	276	746877	41.795	ng		99

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

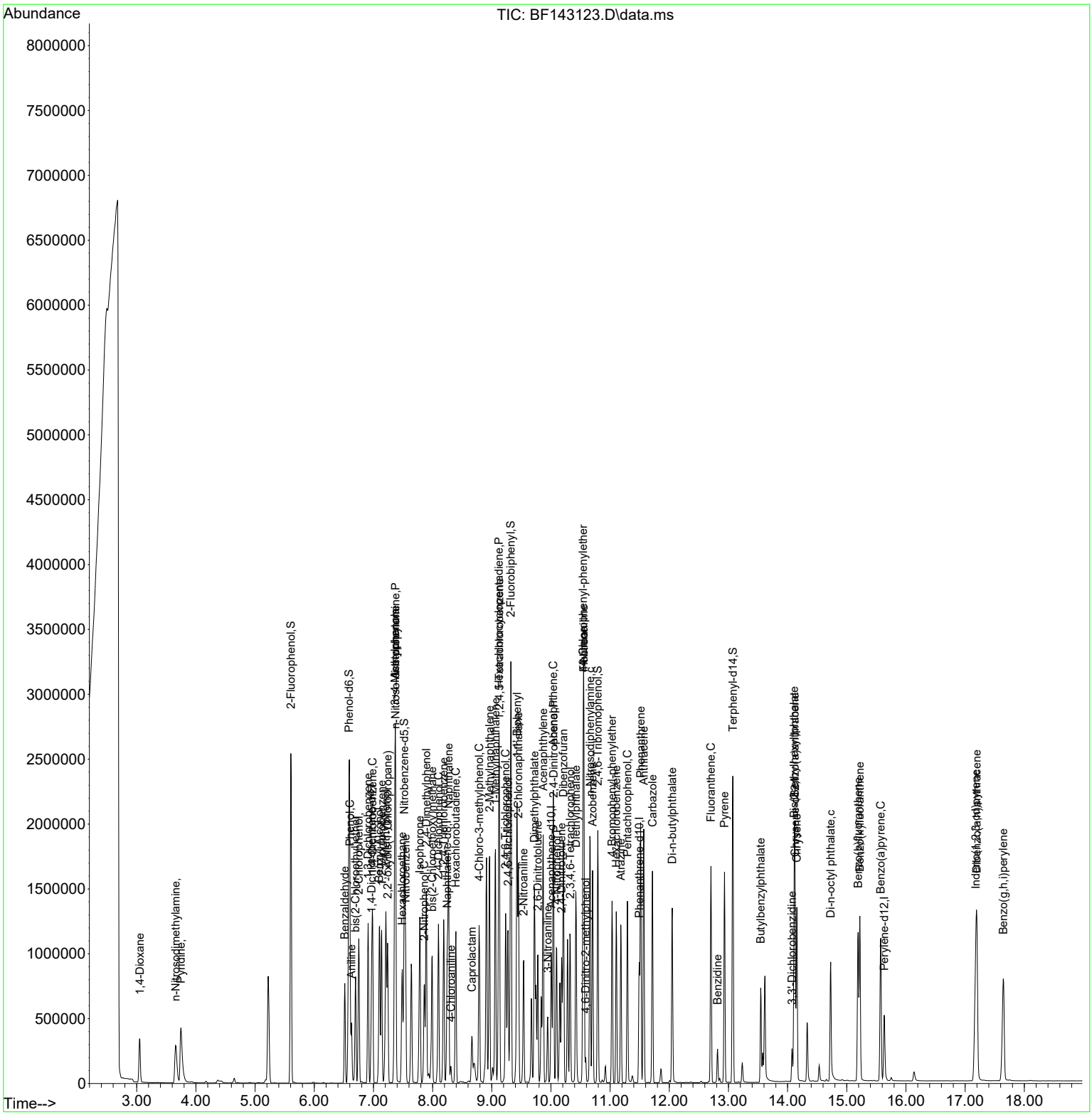
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071625\
Data File : BF143123.D
Acq On : 16 Jul 2025 22:38
Operator : RC/JU
Sample : Q2592-02MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

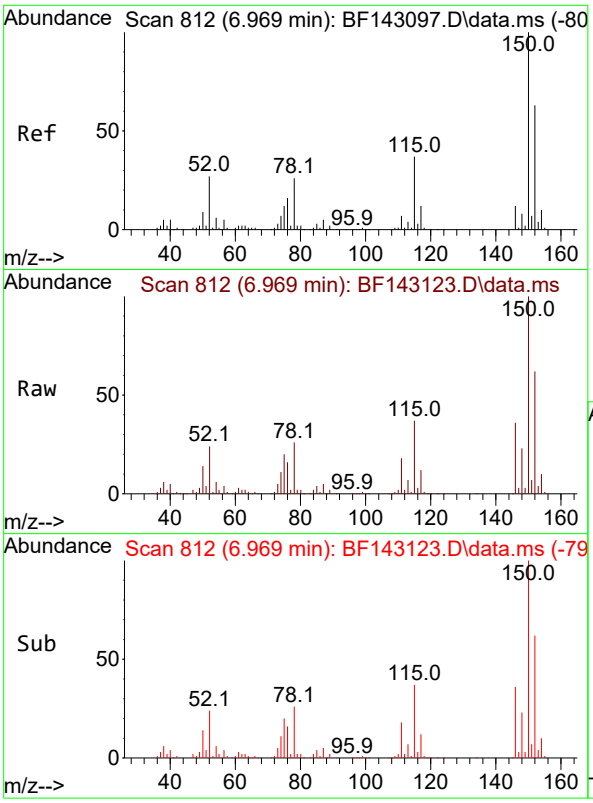
Quant Time: Jul 17 03:46:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 15 17:53:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

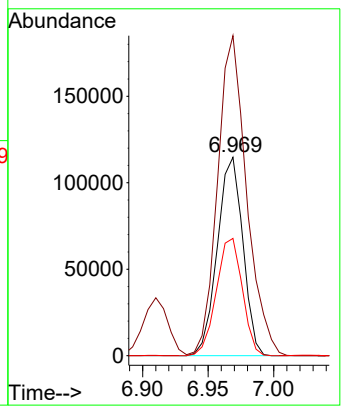




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.969 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:152 Resp: 15504

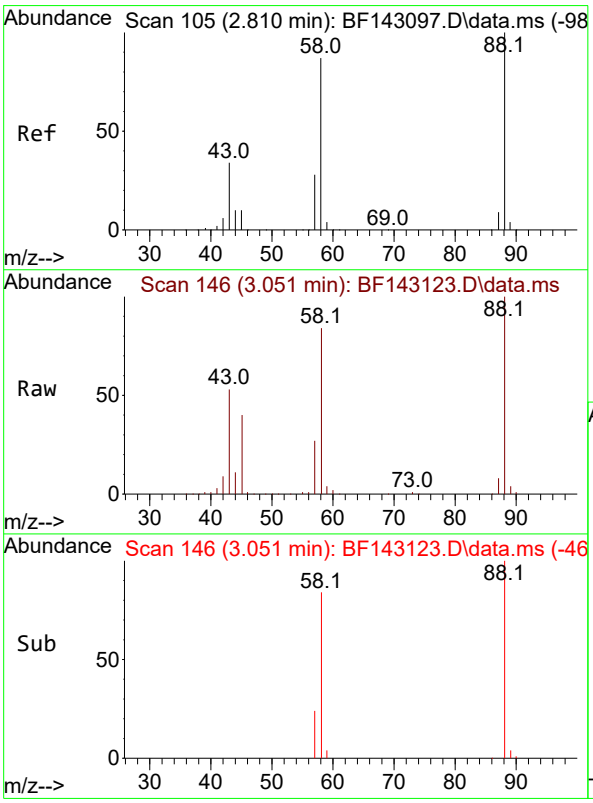
Ion	Ratio	Lower	Upper
152	100		
150	161.3	126.5	189.7
115	59.1	47.0	70.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

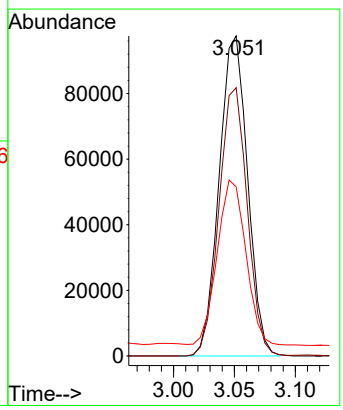
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

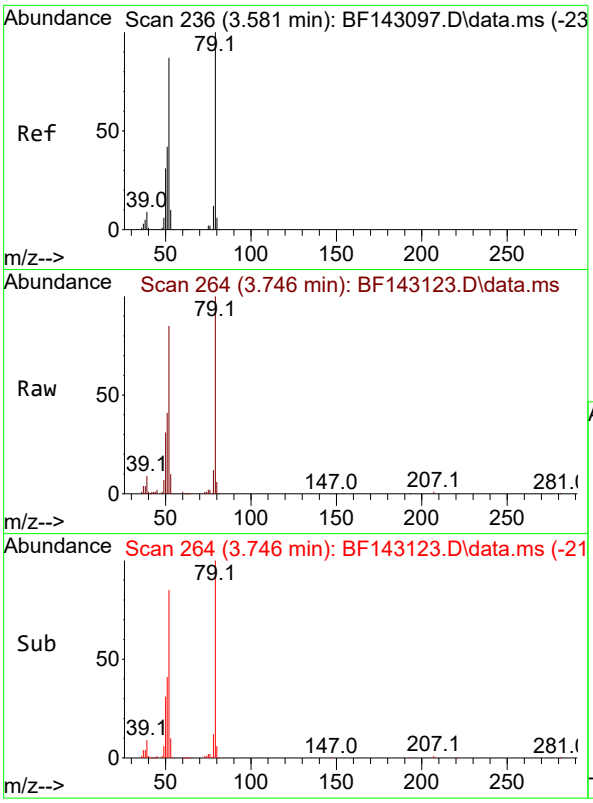


#2
1,4-Dioxane
Concen: 32.453 ng
RT: 3.051 min Scan# 146
Delta R.T. 0.241 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 88 Resp: 158532

Ion	Ratio	Lower	Upper
88	100		
58	83.4	70.5	105.7
43	51.5	27.3	40.9#

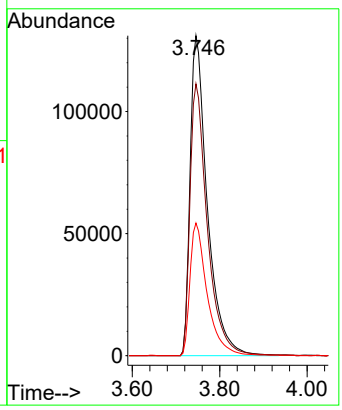




#3
Pyridine
Concen: 29.076 ng
RT: 3.746 min Scan# 2(
Delta R.T. 0.165 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 79 Resp: 35967

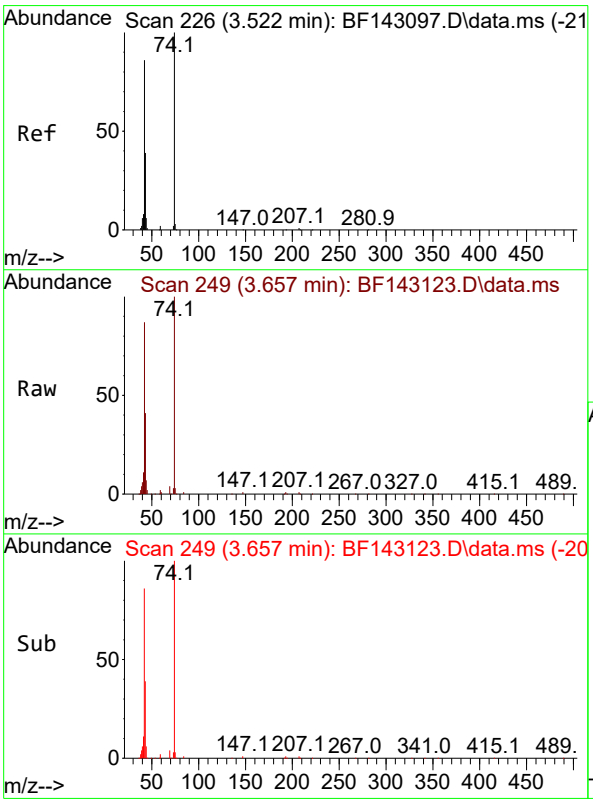
Ion	Ratio	Lower	Upper
79	100		
52	85.0	69.2	103.8
51	41.4	33.3	49.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

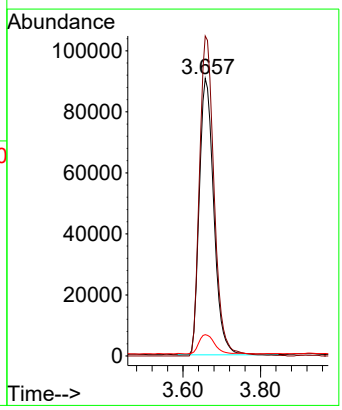
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

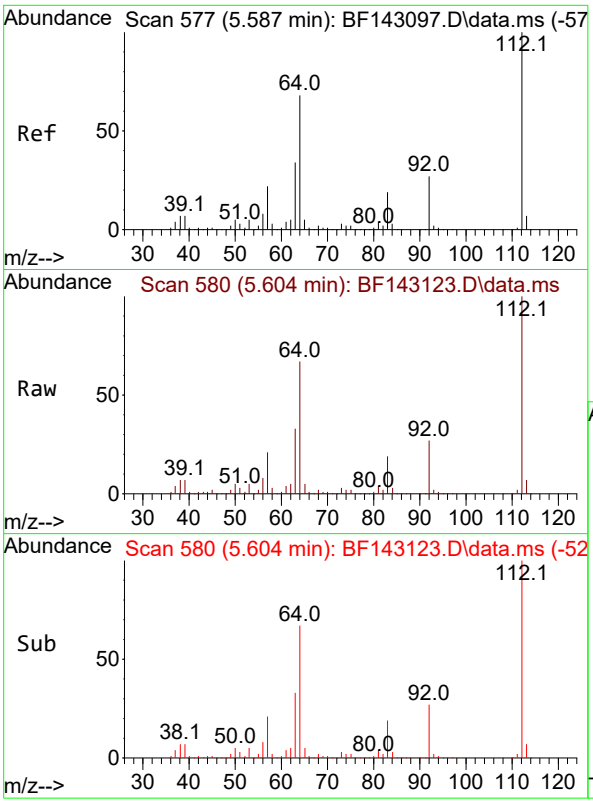


#4
n-Nitrosodimethylamine
Concen: 36.690 ng
RT: 3.657 min Scan# 249
Delta R.T. 0.135 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 42 Resp: 235146

Ion	Ratio	Lower	Upper
42	100		
74	115.3	92.8	139.2
44	7.7	5.8	8.6

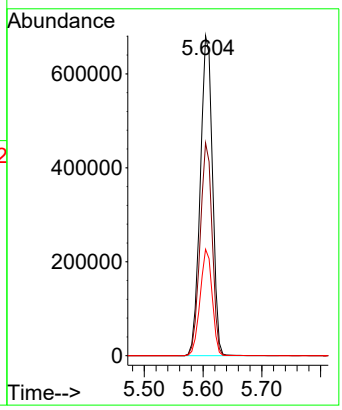




#5
2-Fluorophenol
Concen: 100.389 ng
RT: 5.604 min Scan# 5
Delta R.T. 0.018 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:112 Resp: 98516

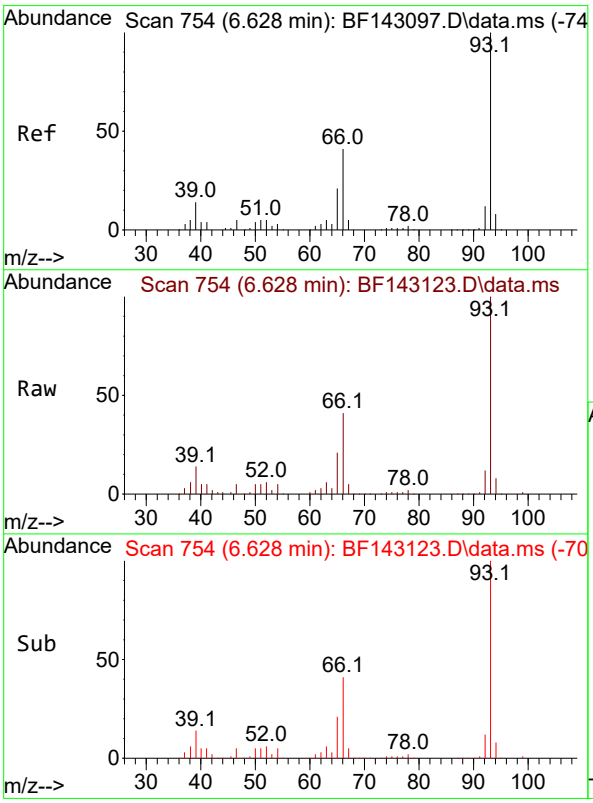
Ion	Ratio	Lower	Upper
112	100		
64	66.5	54.6	82.0
63	33.2	27.3	40.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

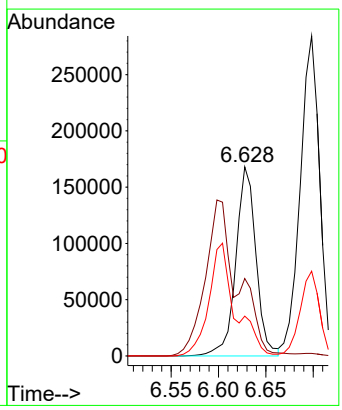
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

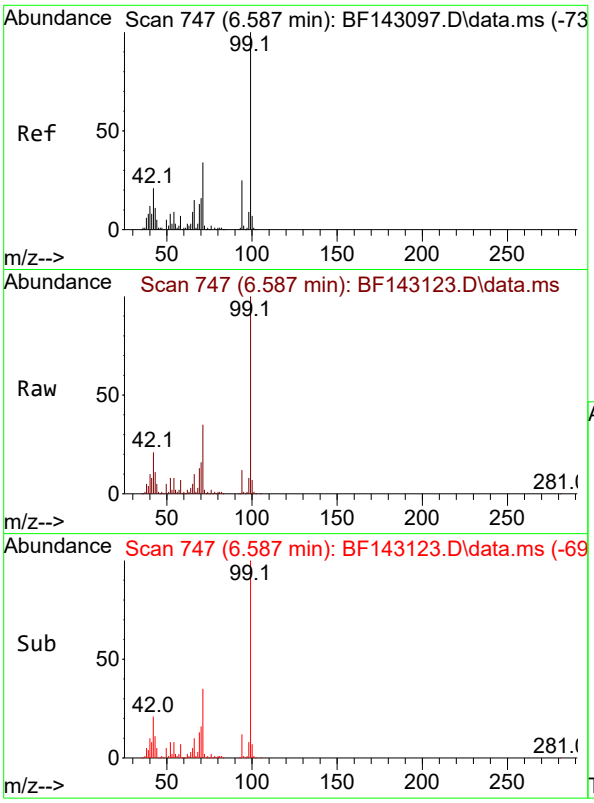


#6
Aniline
Concen: 14.295 ng
RT: 6.628 min Scan# 754
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 93 Resp: 248322

Ion	Ratio	Lower	Upper
93	100		
66	40.9	33.1	49.7
65	21.1	16.9	25.3

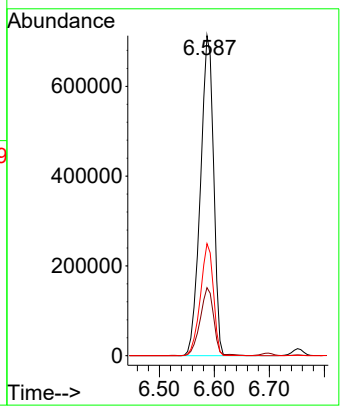




#7
Phenol-d6
Concen: 96.301 ng
RT: 6.587 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 99 Resp: 118792

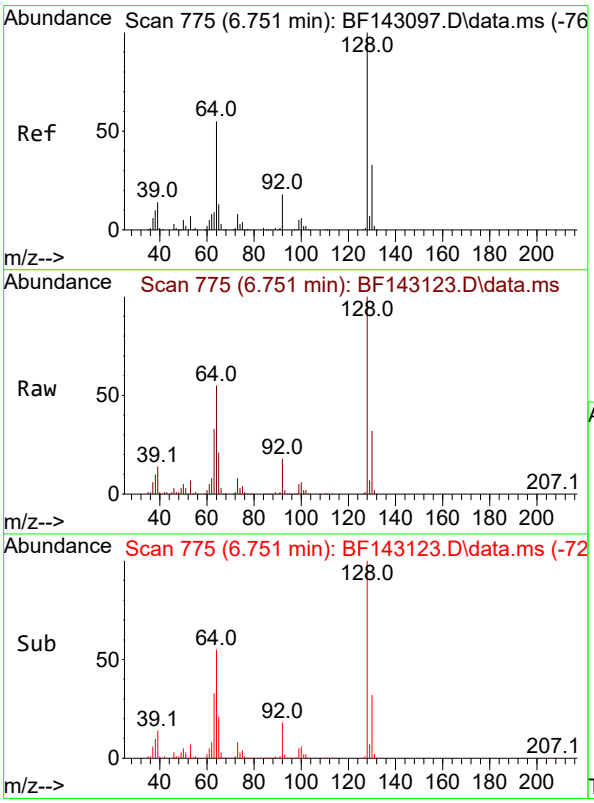
Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.2	25.8
71	35.0	27.4	41.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

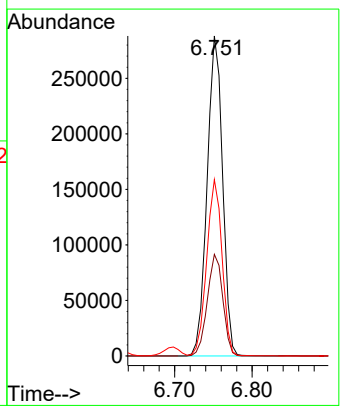
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

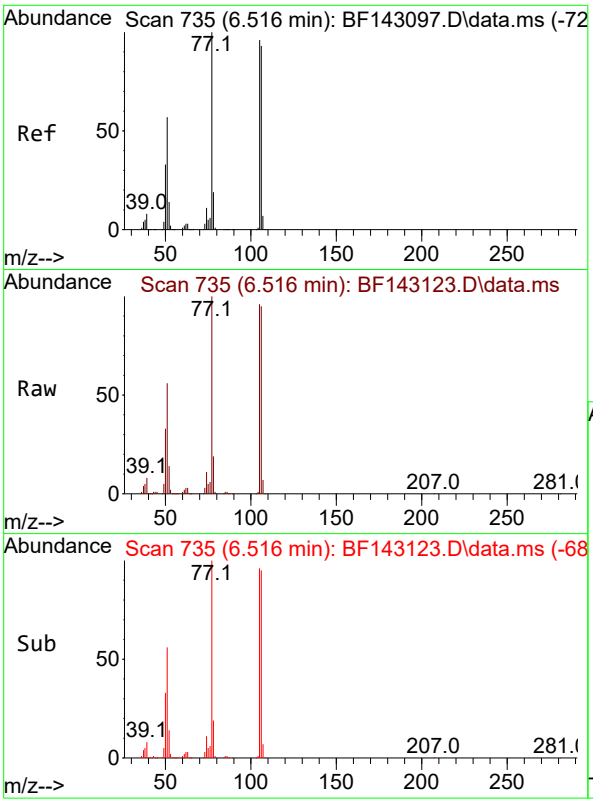


#8
2-Chlorophenol
Concen: 40.503 ng
RT: 6.751 min Scan# 775
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:128 Resp: 399351

Ion	Ratio	Lower	Upper
128	100		
130	31.8	12.8	52.8
64	55.1	36.1	76.1

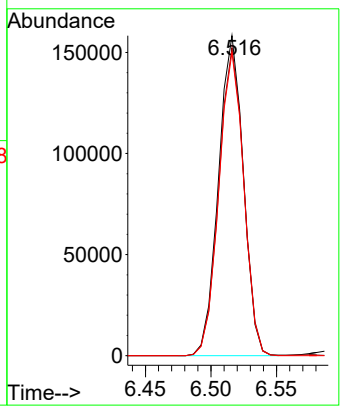




#9
Benzaldehyde
Concen: 22.136 ng
RT: 6.516 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 77 Resp: 20806

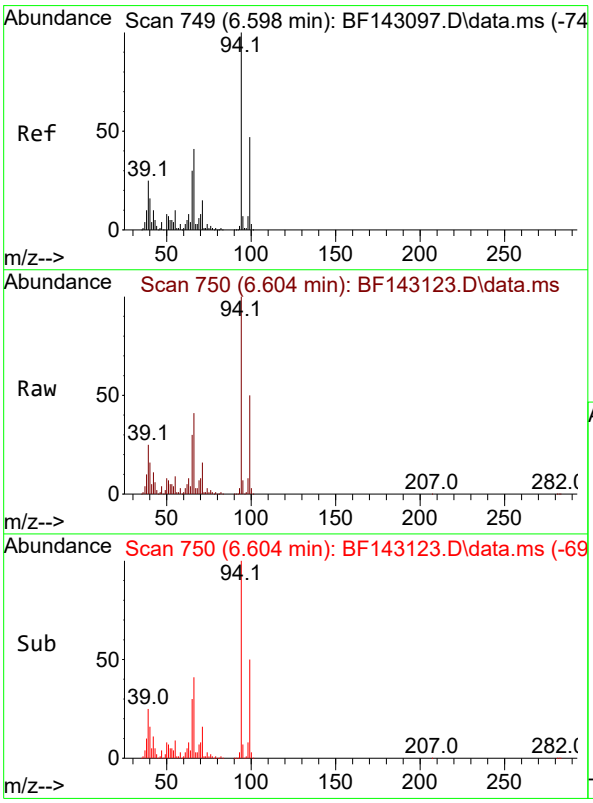
Ion	Ratio	Lower	Upper
77	100		
105	96.2	76.3	116.3
106	94.7	72.8	112.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

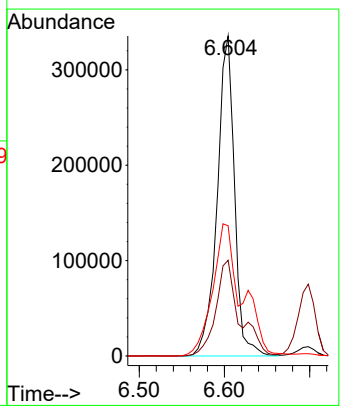
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

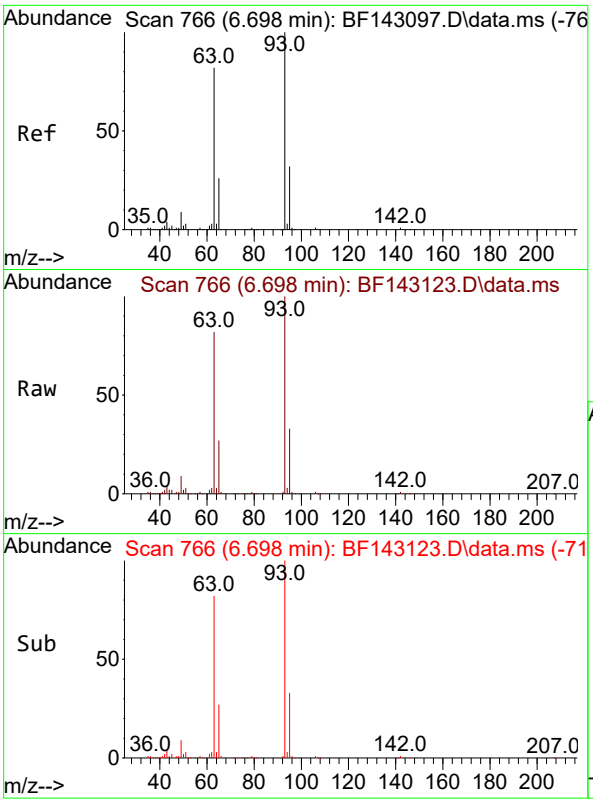


#10
Phenol
Concen: 35.516 ng
RT: 6.604 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 94 Resp: 474280

Ion	Ratio	Lower	Upper
94	100		
65	29.9	9.8	49.8
66	40.7	20.5	60.5





#11
bis(2-Chloroethyl)ether
Concen: 38.865 ng
RT: 6.698 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

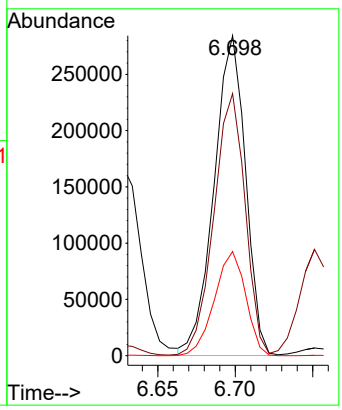
Tgt Ion: 93 Resp: 40178

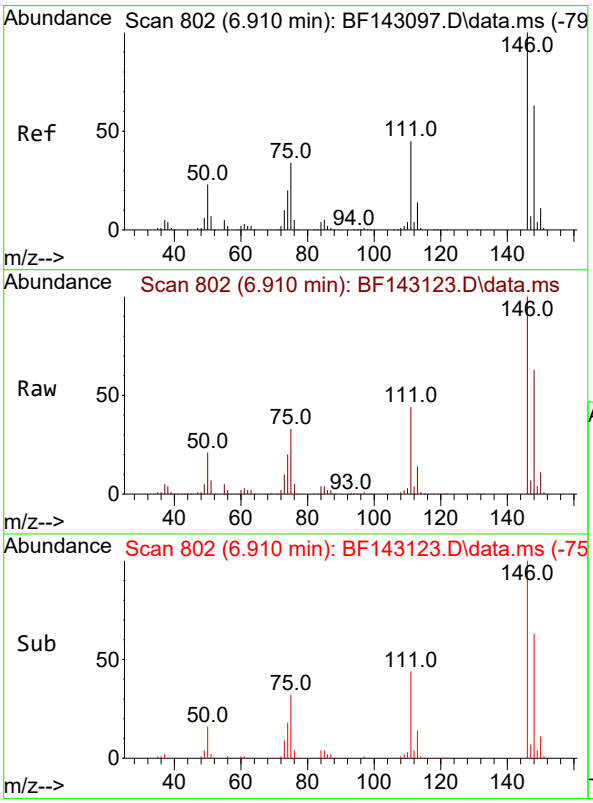
Ion	Ratio	Lower	Upper
93	100		
63	81.9	61.9	101.9
95	32.6	12.2	52.2

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

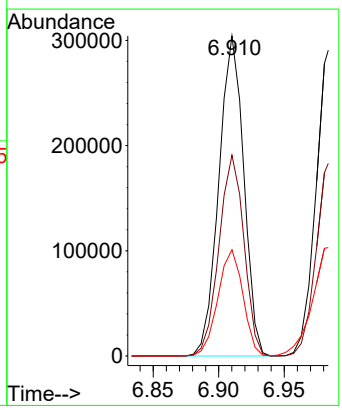


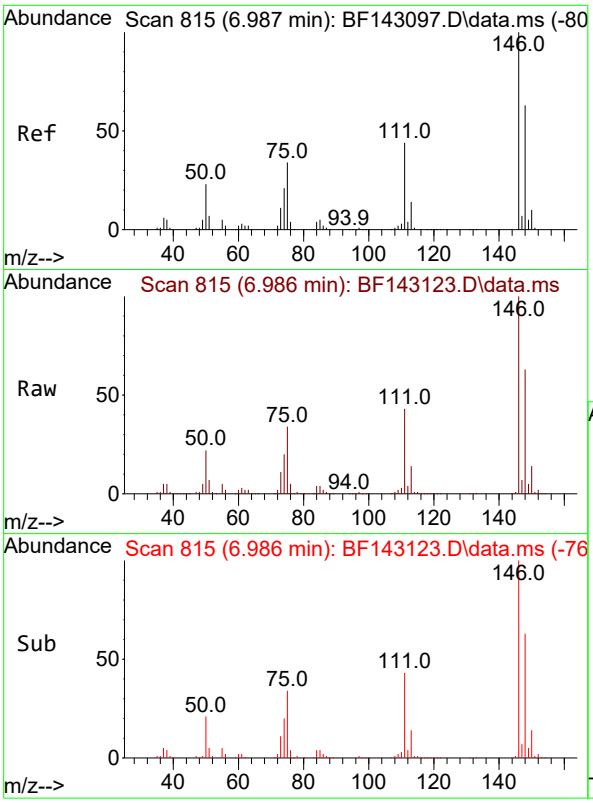


#12
1,3-Dichlorobenzene
Concen: 36.039 ng
RT: 6.910 min Scan# 802
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:146 Resp: 401439

Ion	Ratio	Lower	Upper
146	100		
148	62.7	50.1	75.1
75	33.2	27.4	41.0

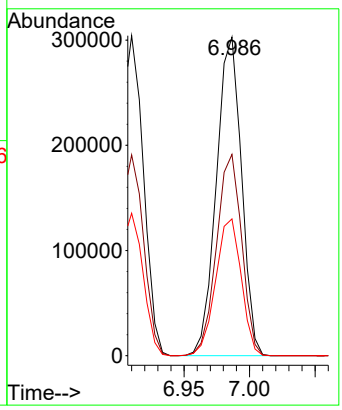




#13
1,4-Dichlorobenzene
Concen: 36.025 ng
RT: 6.986 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:146 Resp: 40371

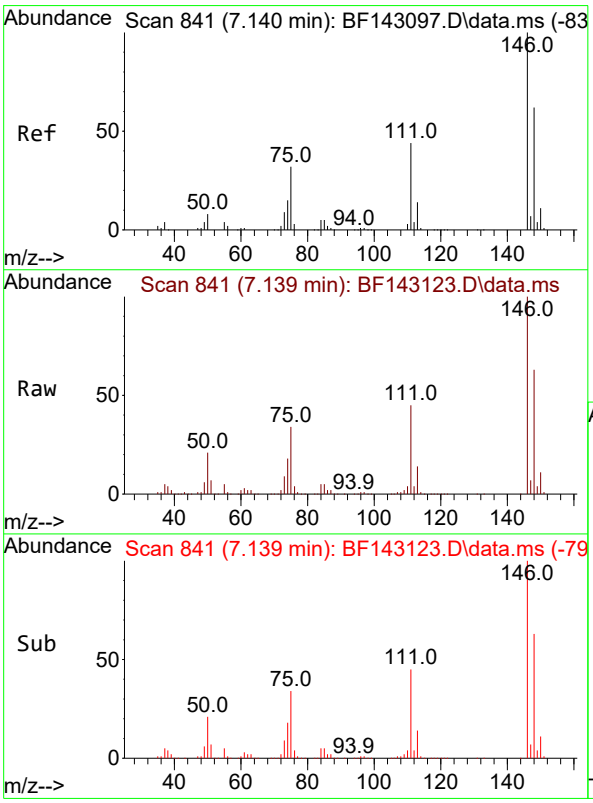
Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.6	76.0
111	43.0	35.0	52.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

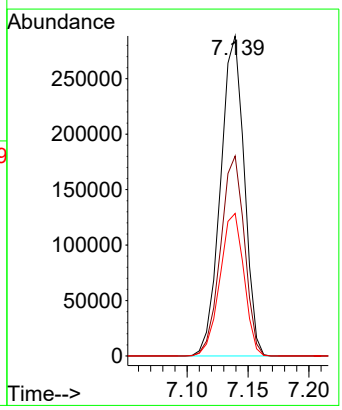
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

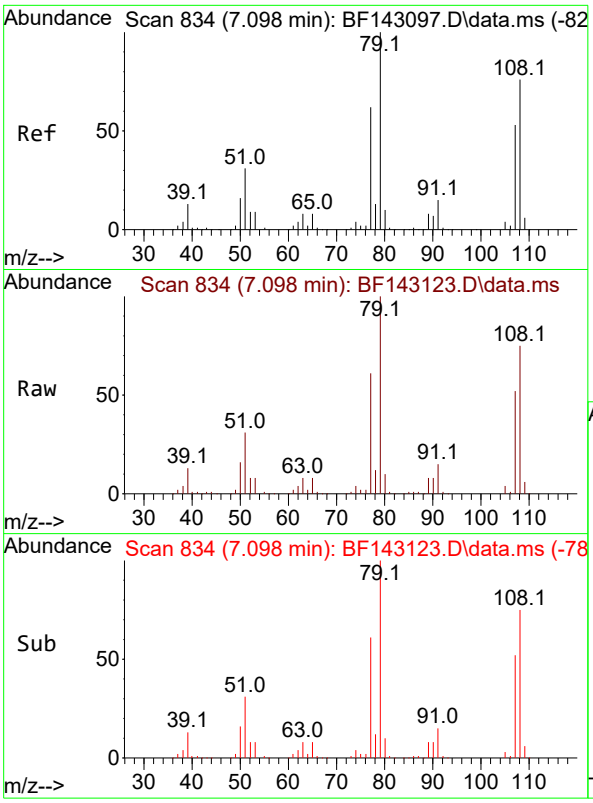


#14
1,2-Dichlorobenzene
Concen: 36.527 ng
RT: 7.139 min Scan# 841
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:146 Resp: 390356

Ion	Ratio	Lower	Upper
146	100		
148	62.5	49.8	74.6
111	44.5	35.4	53.0

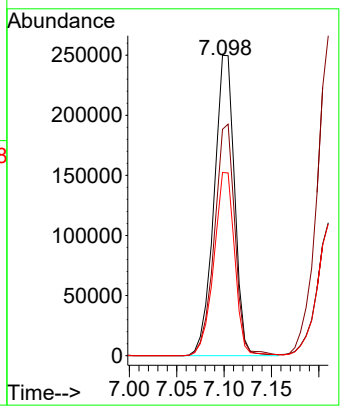




#15
Benzyl Alcohol
Concen: 41.339 ng
RT: 7.098 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 79 Resp: 37784

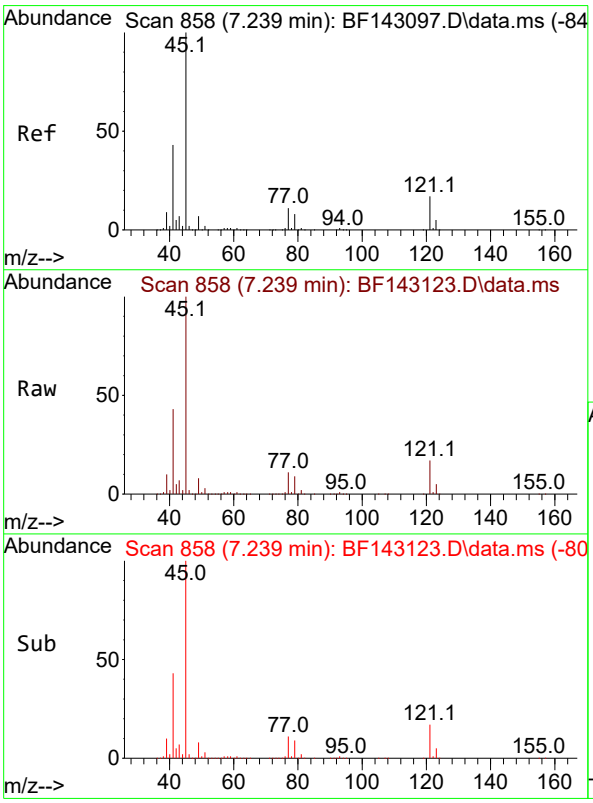
Ion	Ratio	Lower	Upper
79	100		
108	75.4	61.1	91.7
77	61.0	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

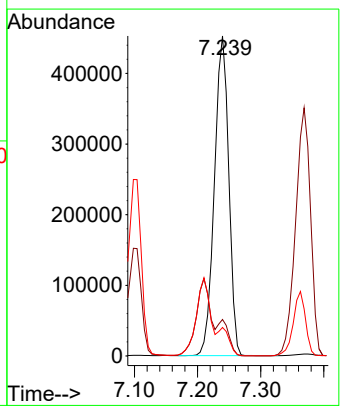
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

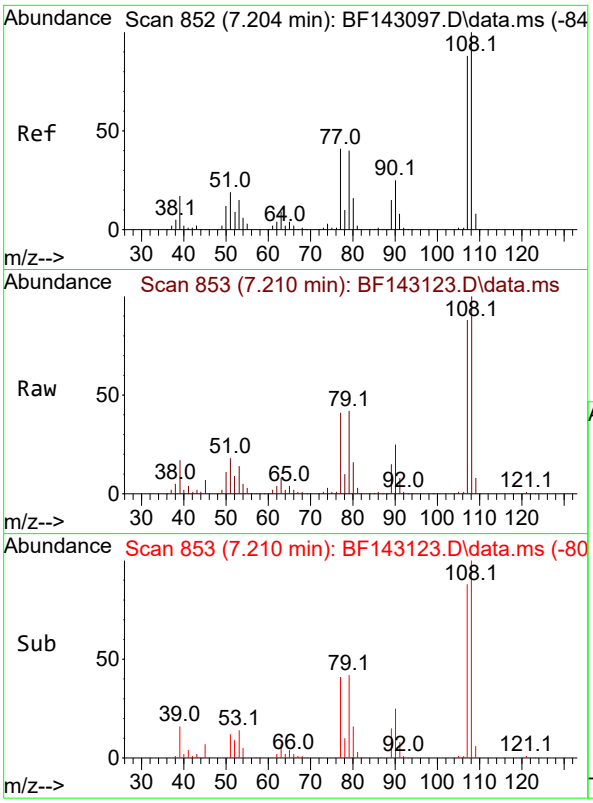


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.375 ng
RT: 7.239 min Scan# 858
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 45 Resp: 712236

Ion	Ratio	Lower	Upper
45	100		
77	11.4	0.0	31.1
79	8.9	0.0	28.4

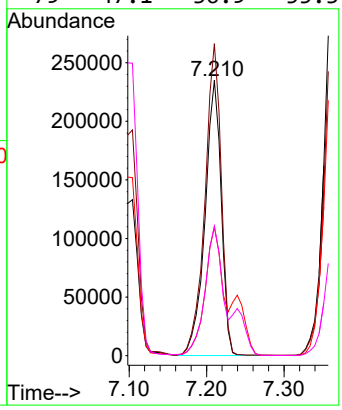




#17
2-Methylphenol
Concen: 40.174 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:107 Resp: 34182

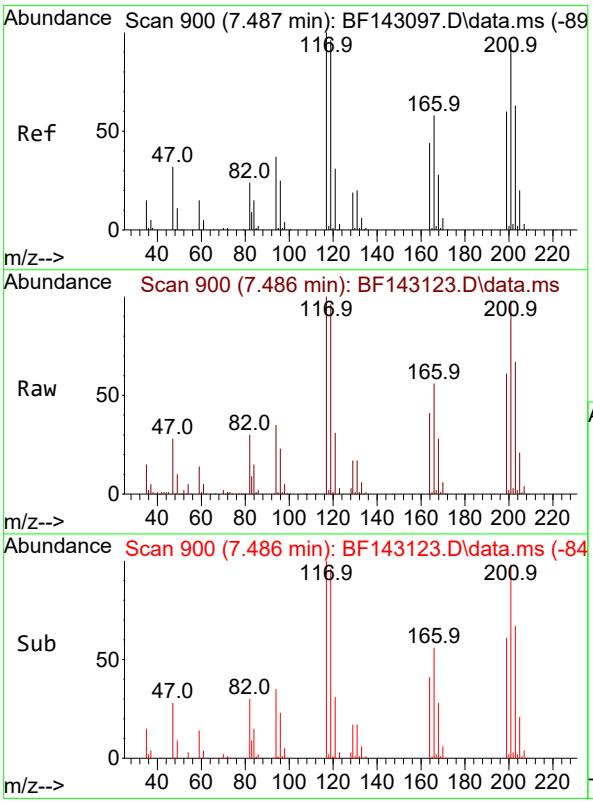
Ion	Ratio	Lower	Upper
107	100		
108	113.3	90.9	136.3
77	46.7	37.5	56.3
79	47.1	36.9	55.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

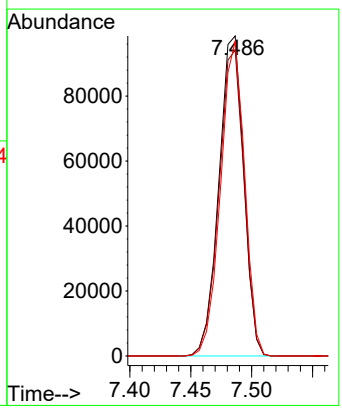
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

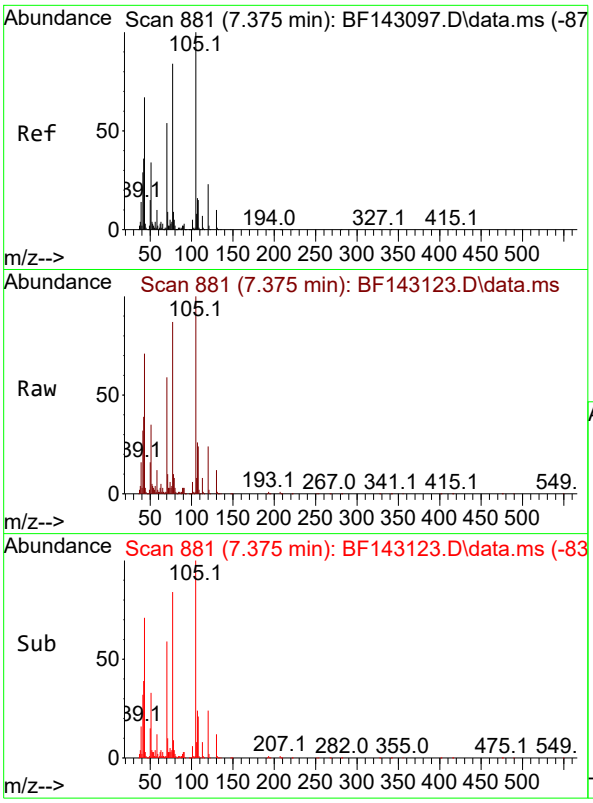


#18
Hexachloroethane
Concen: 38.414 ng
RT: 7.486 min Scan# 900
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:117 Resp: 140139

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.7	115.1
201	98.3	75.0	112.4

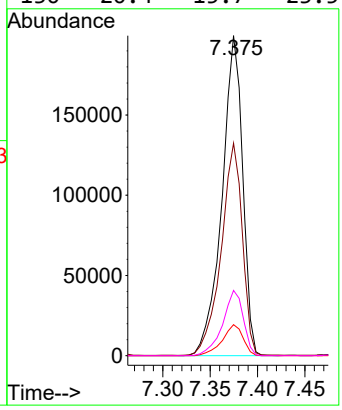




#19
n-Nitroso-di-n-propylamine
Concen: 40.159 ng
RT: 7.375 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

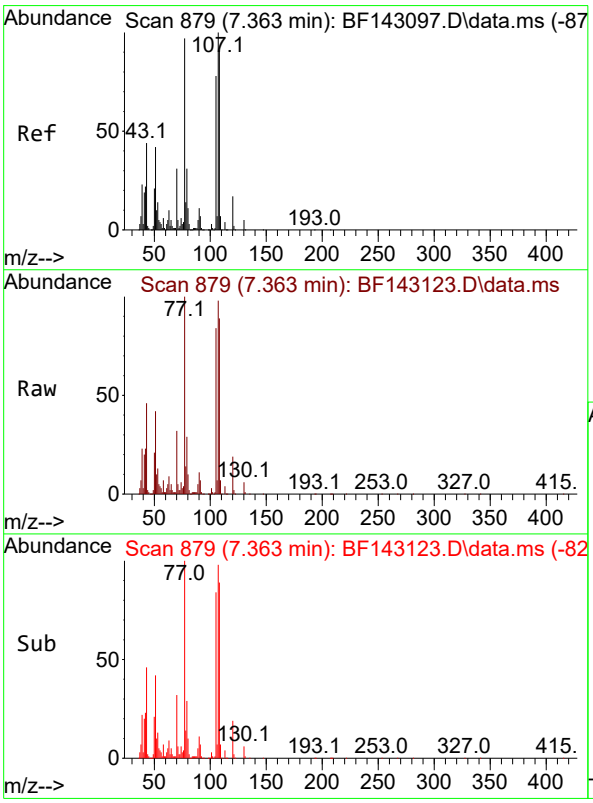
Tgt Ion: 70 Resp: 30349

Ion	Ratio	Lower	Upper
70	100		
42	66.4	53.2	79.8
101	9.7	7.5	11.3
130	20.4	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

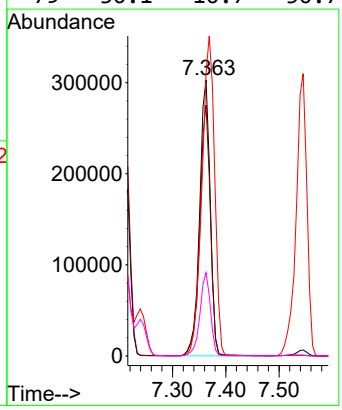
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

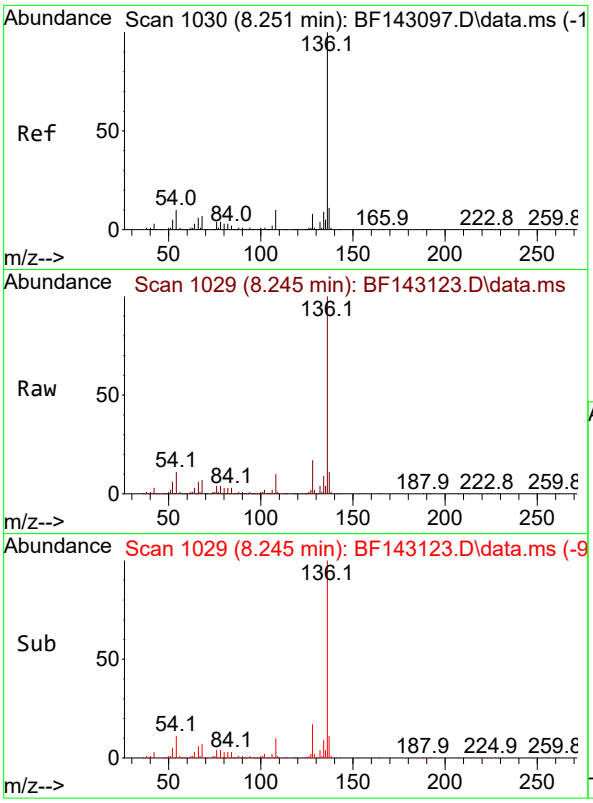


#20
3+4-Methylphenols
Concen: 40.262 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:107 Resp: 420120

Ion	Ratio	Lower	Upper
107	100		
108	90.9	71.3	111.3
77	102.2	77.2	117.2
79	30.1	10.7	50.7

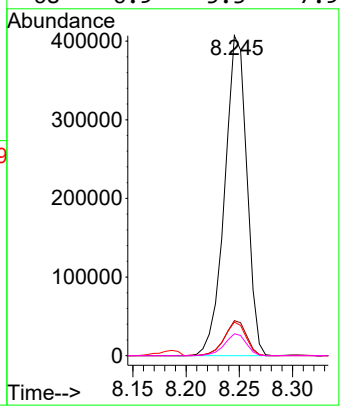




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:136 Resp: 58962

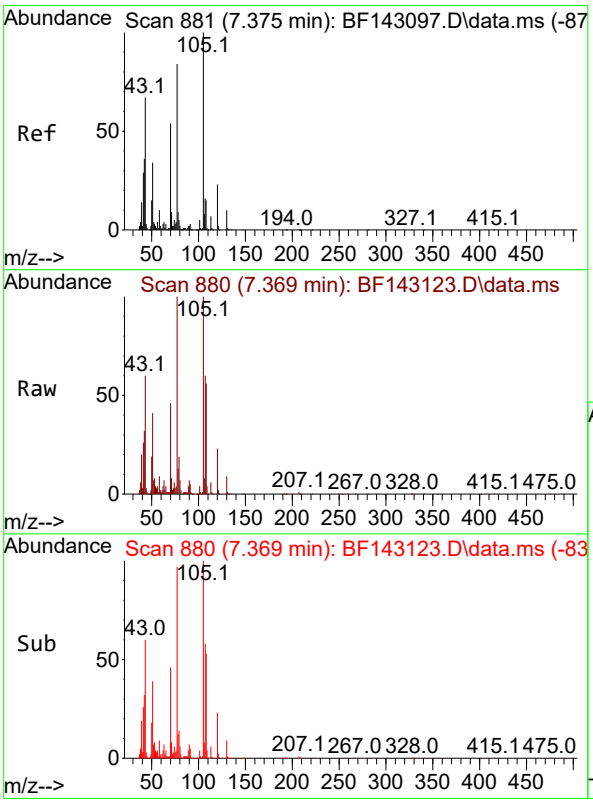
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	10.5	8.3	12.5
68	6.9	5.3	7.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

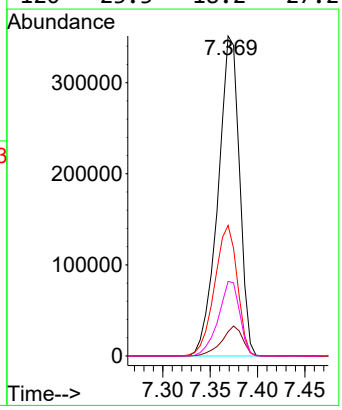
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

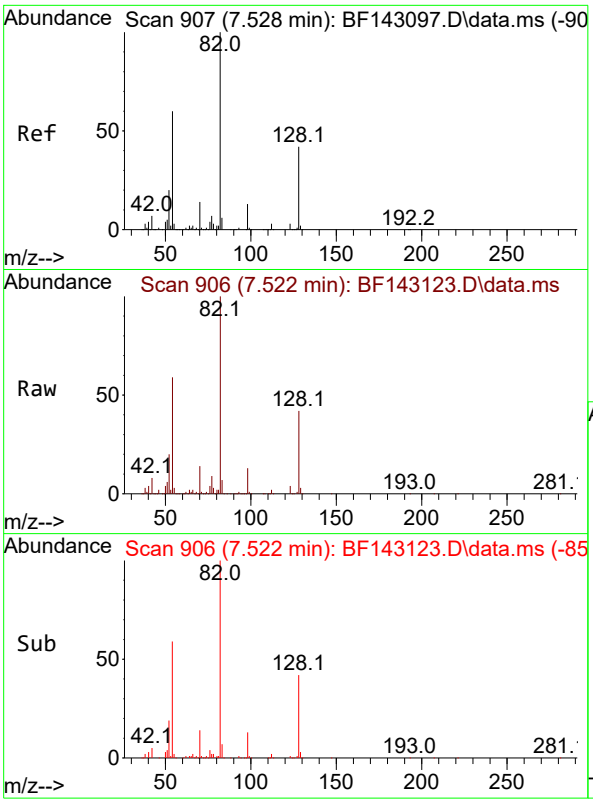


#22
Acetophenone
Concen: 39.074 ng
RT: 7.369 min Scan# 880
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:105 Resp: 555372

Ion	Ratio	Lower	Upper
105	100		
71	7.6	7.2	10.8
51	40.8	27.0	40.4#
120	23.3	18.2	27.2





#23
Nitrobenzene-d5
Concen: 82.622 ng
RT: 7.522 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

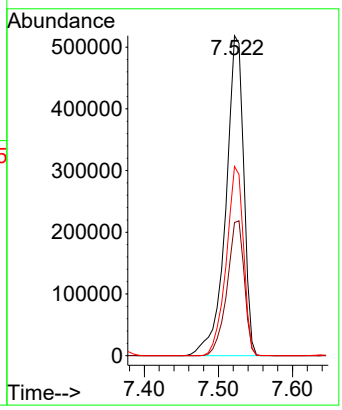
Tgt Ion: 82 Resp: 86840

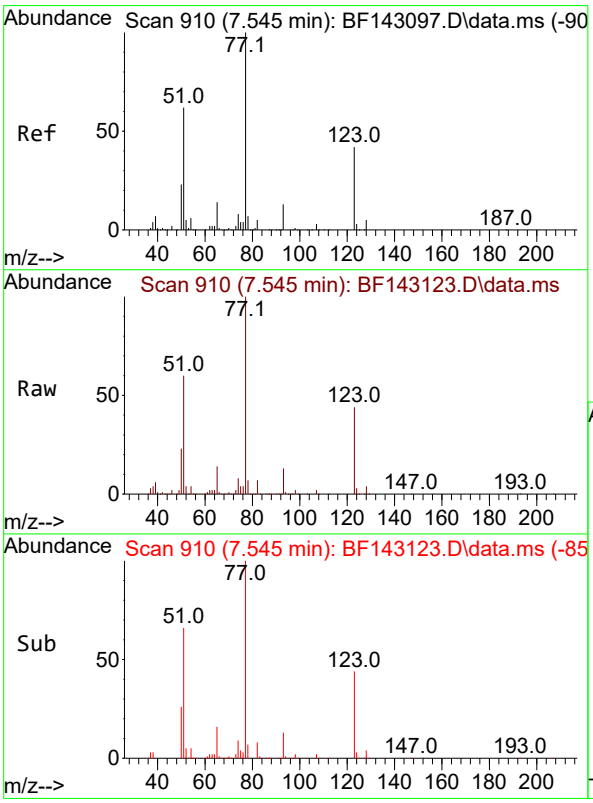
Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.3	49.9
54	59.1	47.4	71.2

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

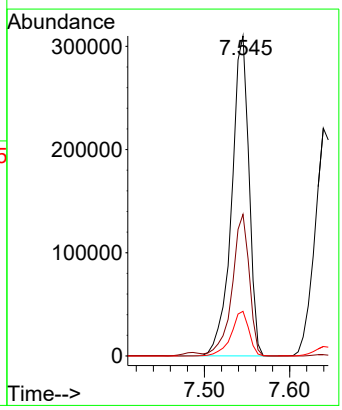


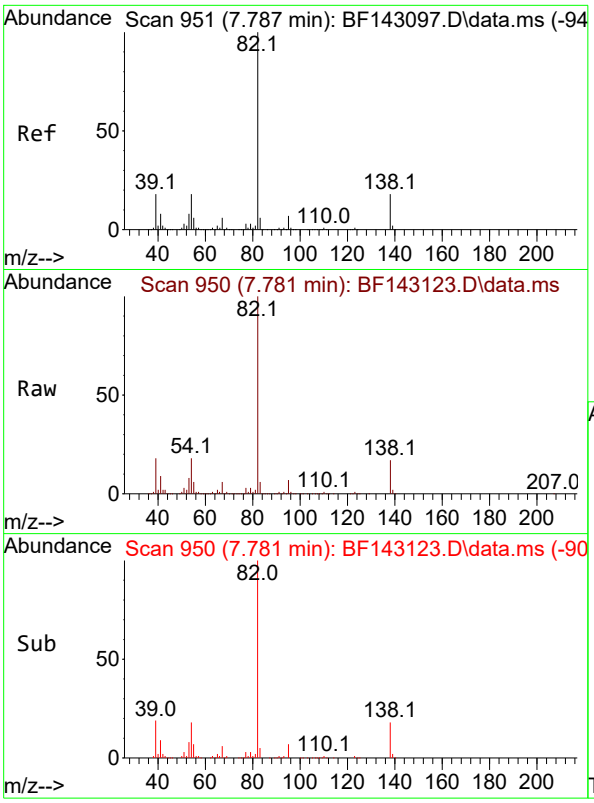


#24
Nitrobenzene
Concen: 43.043 ng
RT: 7.545 min Scan# 910
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 77 Resp: 436738

Ion	Ratio	Lower	Upper
77	100		
123	44.3	34.5	51.7
65	13.9	11.3	16.9

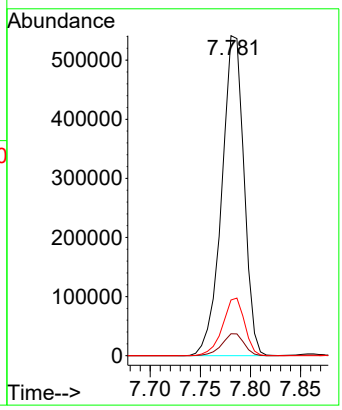




#25
Isophorone
Concen: 41.156 ng
RT: 7.781 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 82 Resp: 83611

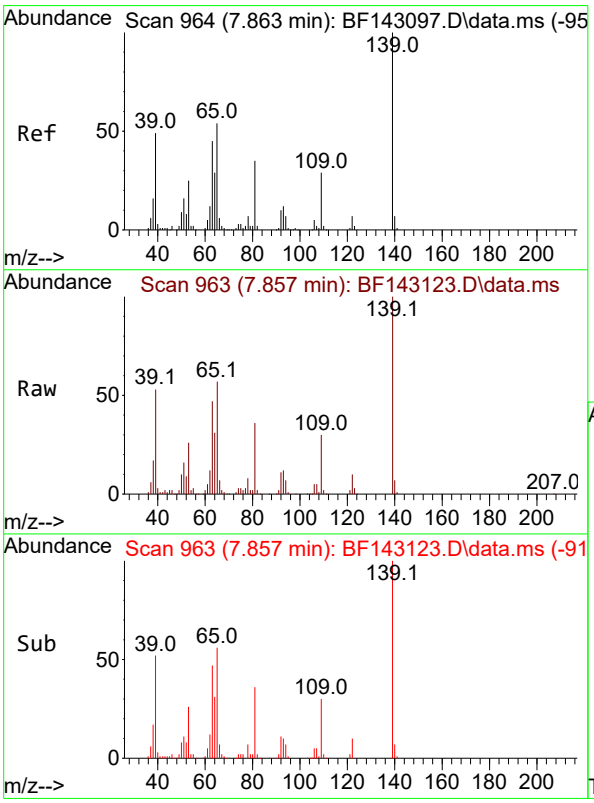
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.6	8.4
138	17.4	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

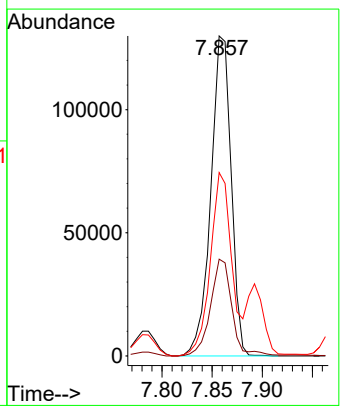
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

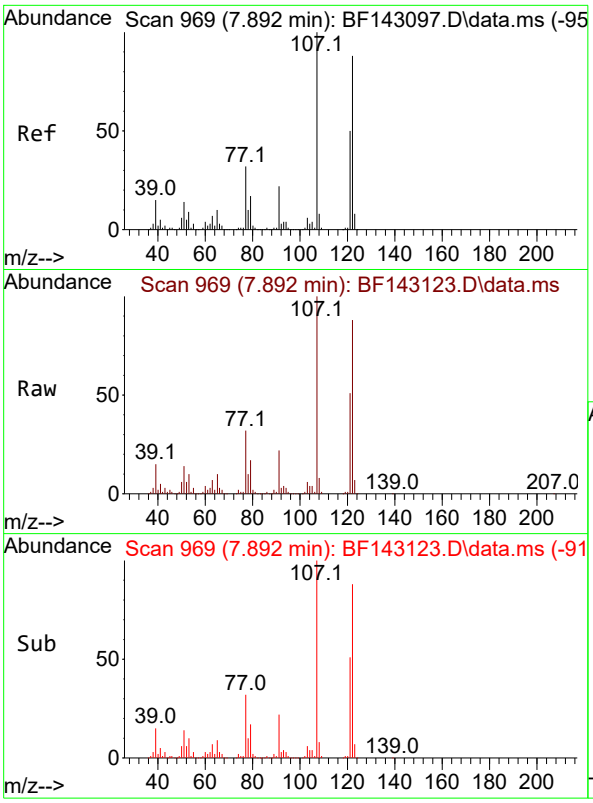


#26
2-Nitrophenol
Concen: 45.388 ng
RT: 7.857 min Scan# 963
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:139 Resp: 183091

Ion	Ratio	Lower	Upper
139	100		
109	30.2	23.4	35.0
65	57.3	43.4	65.2





#27
2,4-Dimethylphenol
Concen: 41.746 ng
RT: 7.892 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

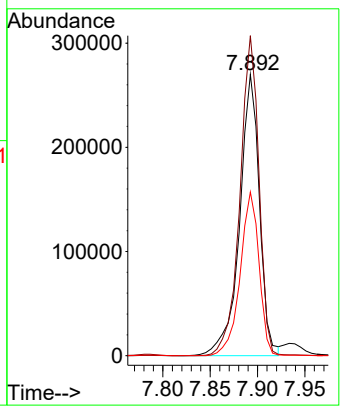
Tgt Ion:122 Resp: 39362

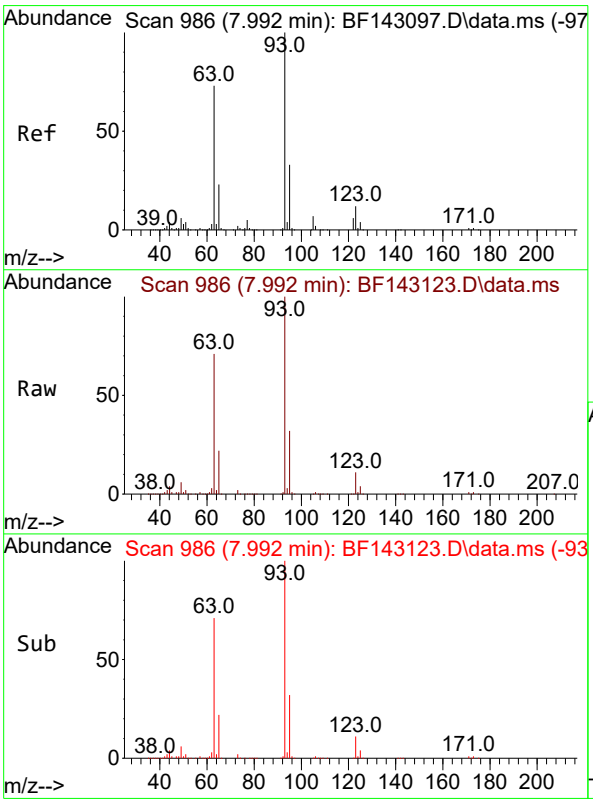
Ion	Ratio	Lower	Upper
122	100		
107	113.8	91.3	136.9
121	58.2	45.5	68.3

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

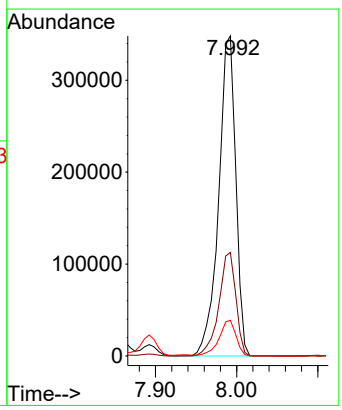


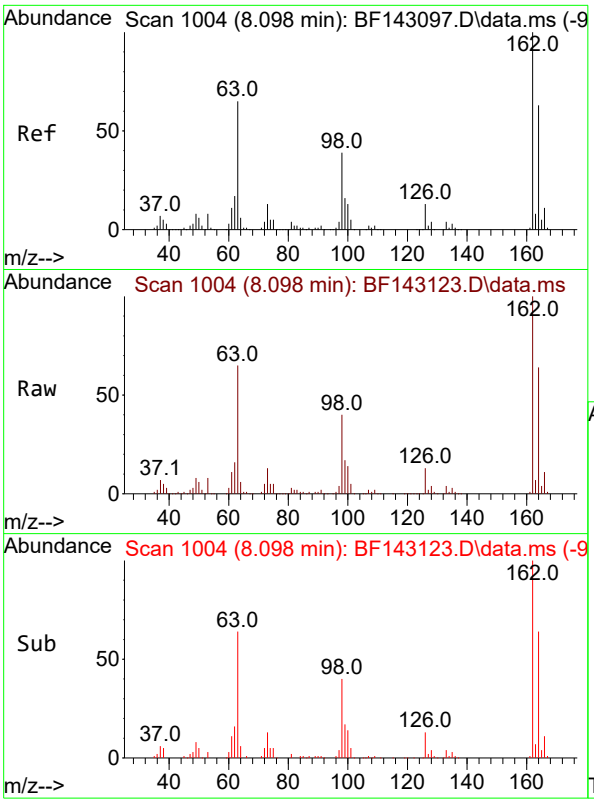


#28
bis(2-Chloroethoxy)methane
Concen: 41.502 ng
RT: 7.992 min Scan# 986
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 93 Resp: 511274

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.2	39.4
123	11.2	9.6	14.4

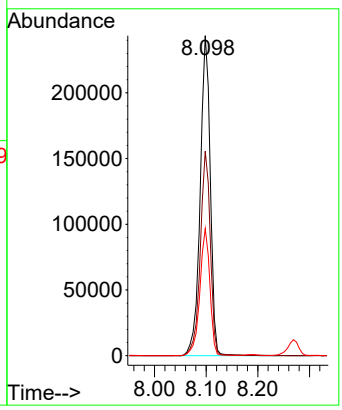




#29
2,4-Dichlorophenol
Concen: 42.946 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:162 Resp: 33128

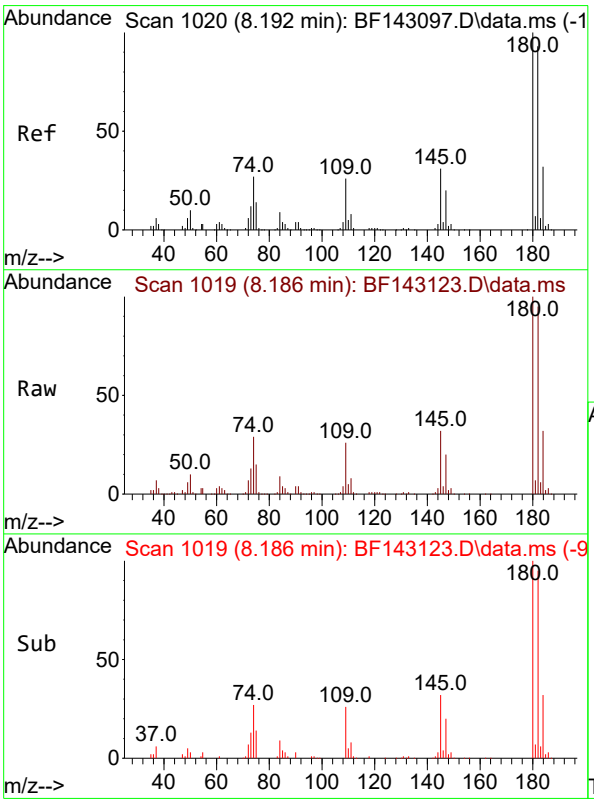
Ion	Ratio	Lower	Upper
162	100		
164	63.9	43.1	83.1
98	39.7	19.2	59.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

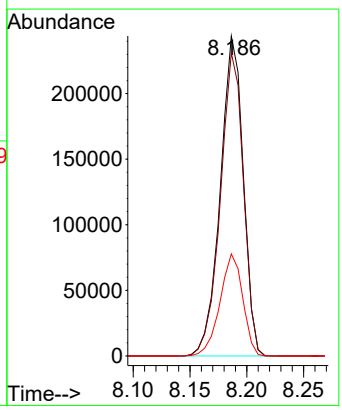
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

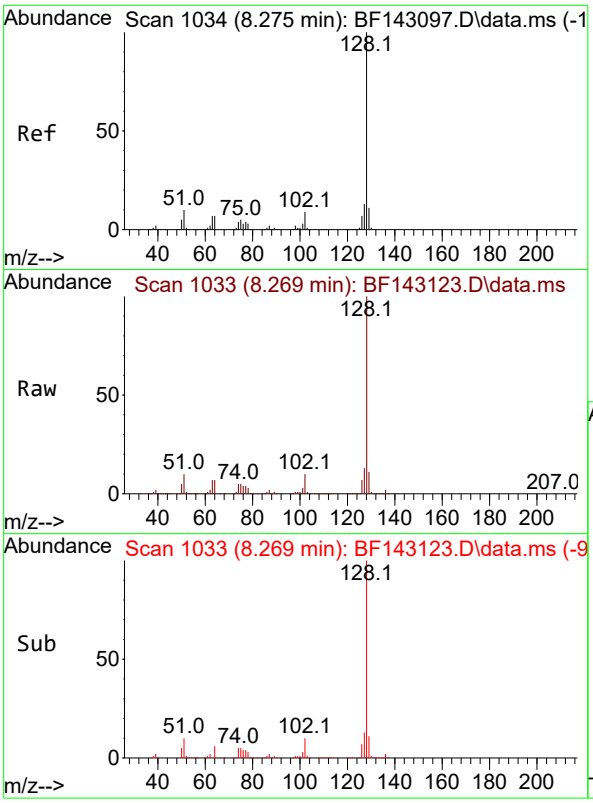


#30
1,2,4-Trichlorobenzene
Concen: 39.150 ng
RT: 8.186 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:180 Resp: 342733

Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.7	112.1
145	31.9	24.5	36.7

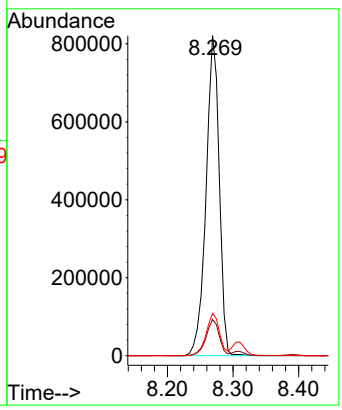




#31
Naphthalene
Concen: 39.217 ng
RT: 8.269 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:128 Resp: 114825

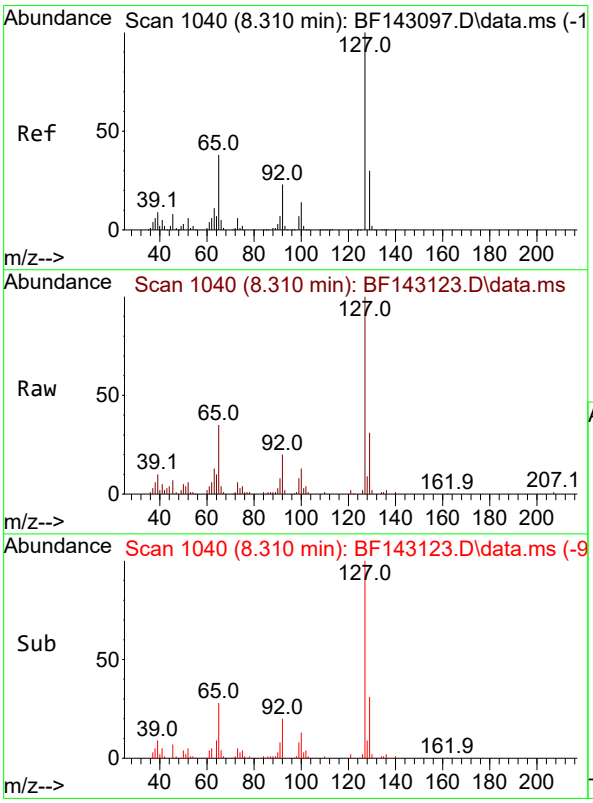
Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.0	13.4
127	13.2	10.5	15.7



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

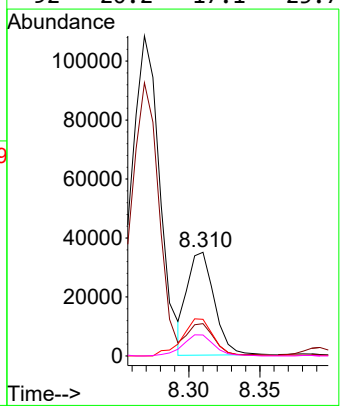
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

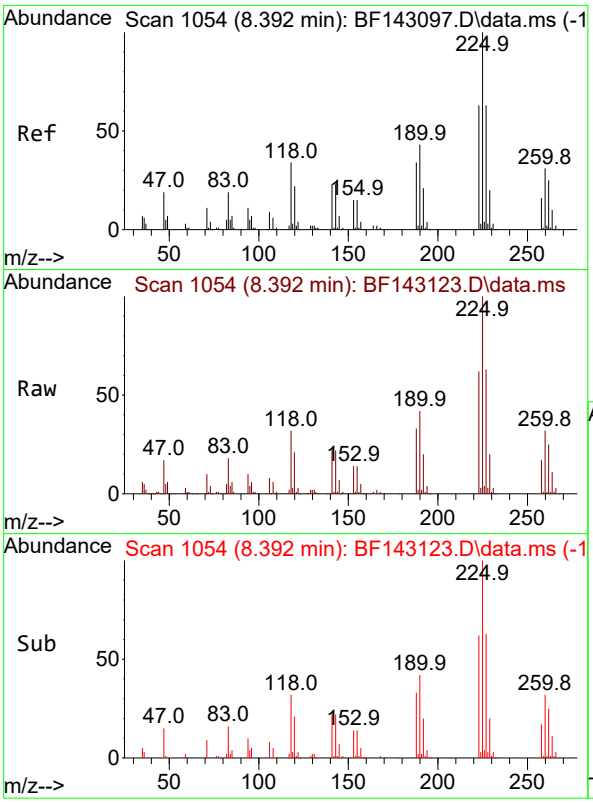


#33
4-Chloroaniline
Concen: 3.904 ng
RT: 8.310 min Scan# 1040
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:127 Resp: 45970

Ion	Ratio	Lower	Upper
127	100		
129	31.2	26.2	39.4
65	35.4	28.6	42.8
92	20.2	17.1	25.7

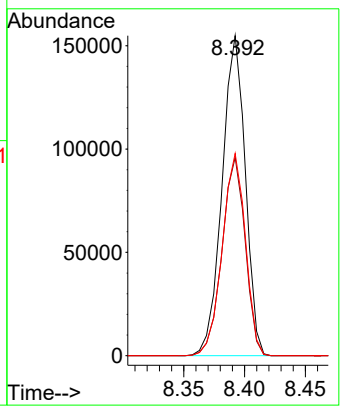




#34
Hexachlorobutadiene
Concen: 39.259 ng
RT: 8.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:225 Resp: 20554

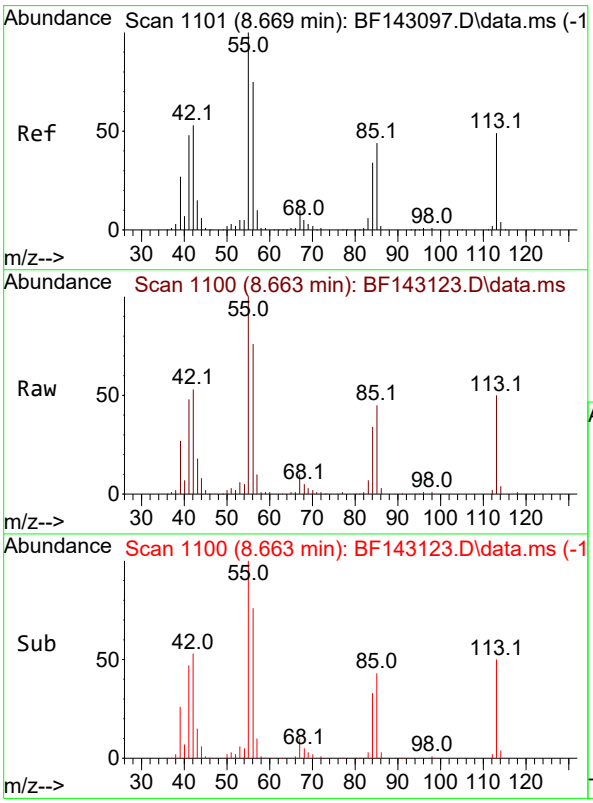
Ion	Ratio	Lower	Upper
225	100		
223	61.9	50.3	75.5
227	63.2	50.1	75.1



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

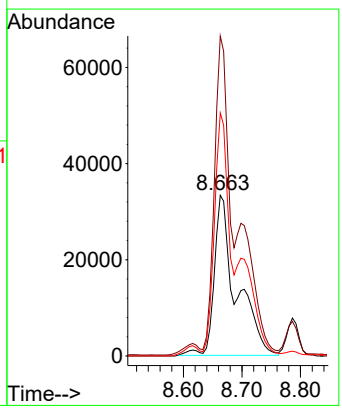
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

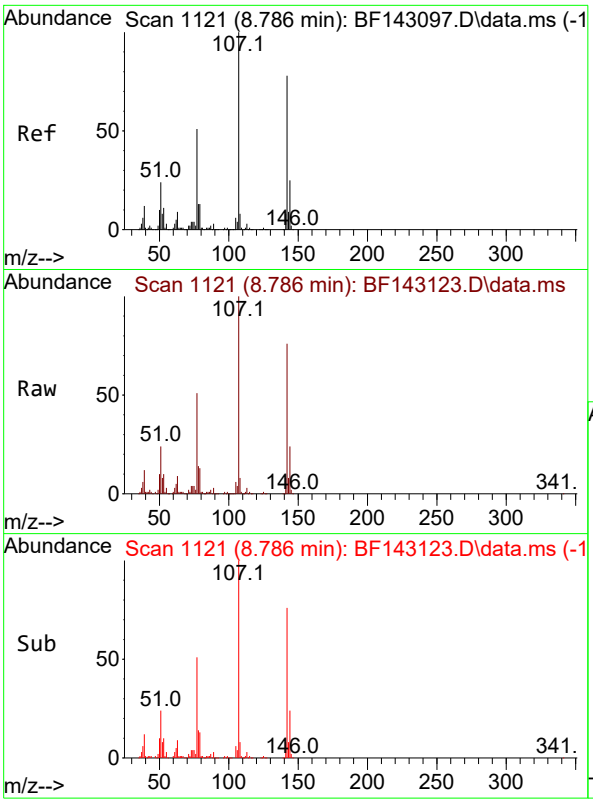


#35
Caprolactam
Concen: 36.057 ng m
RT: 8.663 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:113 Resp: 86853

Ion	Ratio	Lower	Upper
113	100		
55	199.1	186.2	226.2
56	151.3	134.1	174.1

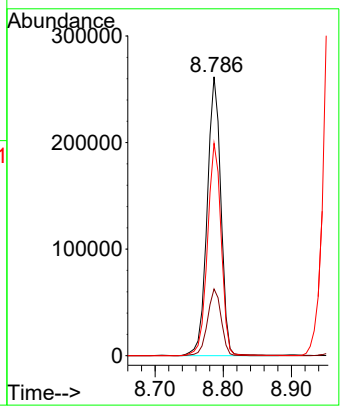




#36
4-Chloro-3-methylphenol
Concen: 42.700 ng
RT: 8.786 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:107 Resp: 366909

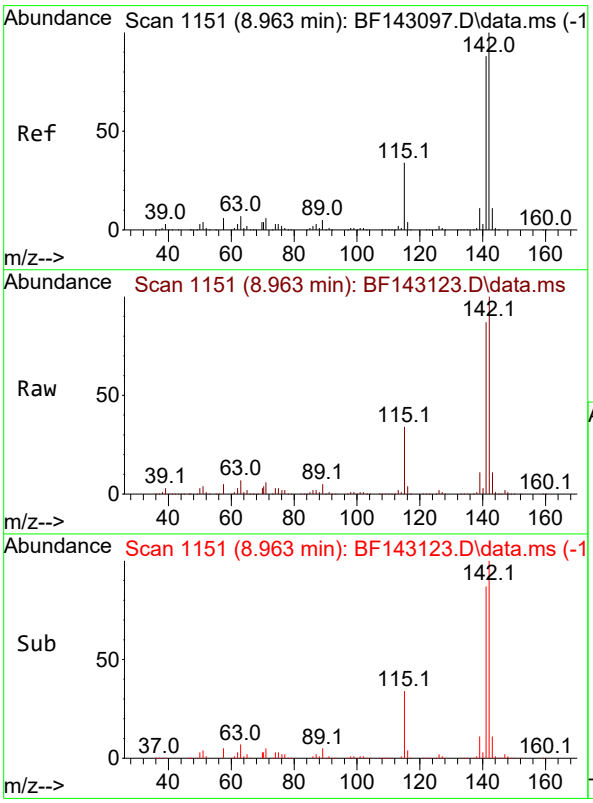
Ion	Ratio	Lower	Upper
107	100		
144	23.9	20.2	30.2
142	76.2	62.4	93.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

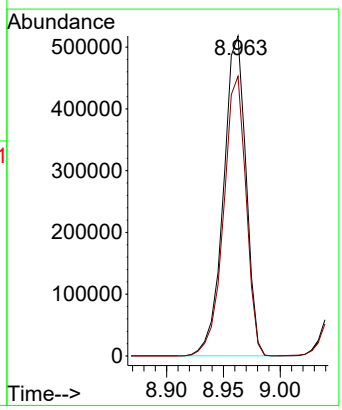
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

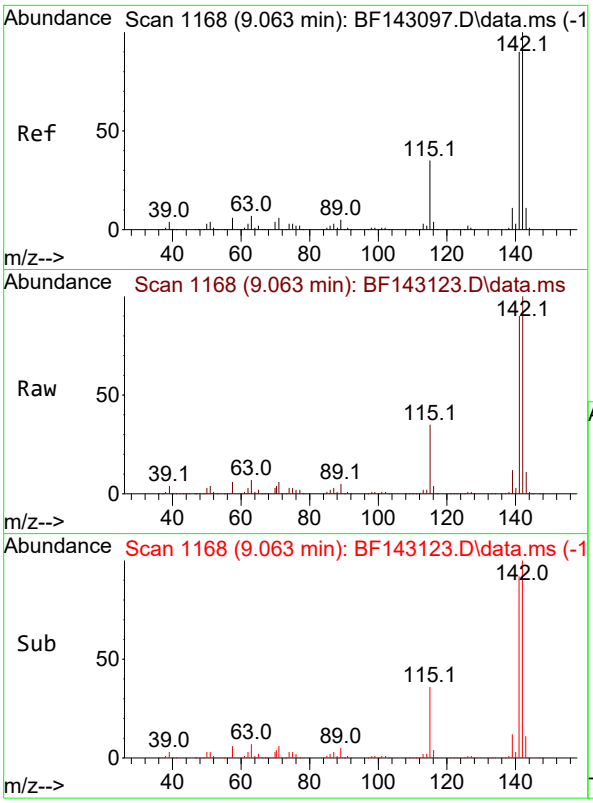


#37
2-Methylnaphthalene
Concen: 40.837 ng
RT: 8.963 min Scan# 1151
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:142 Resp: 713317

Ion	Ratio	Lower	Upper
142	100		
141	87.4	70.2	105.2

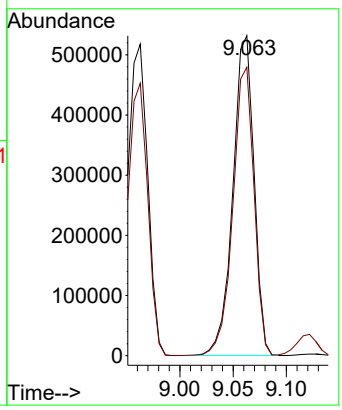




#38
1-Methylnaphthalene
Concen: 40.624 ng
RT: 9.063 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:142 Resp: 73596

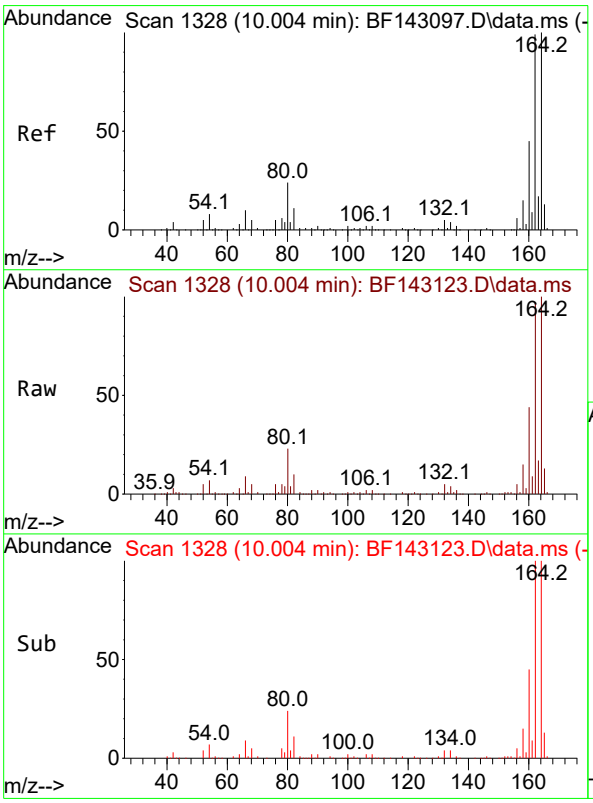
Ion	Ratio	Lower	Upper
142	100		
141	90.2	72.2	108.4



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

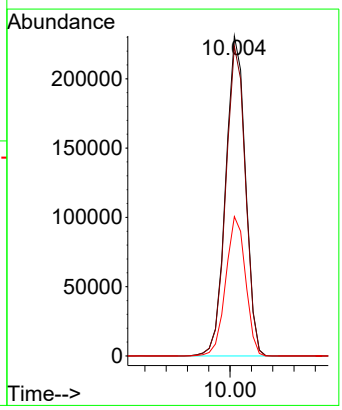
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

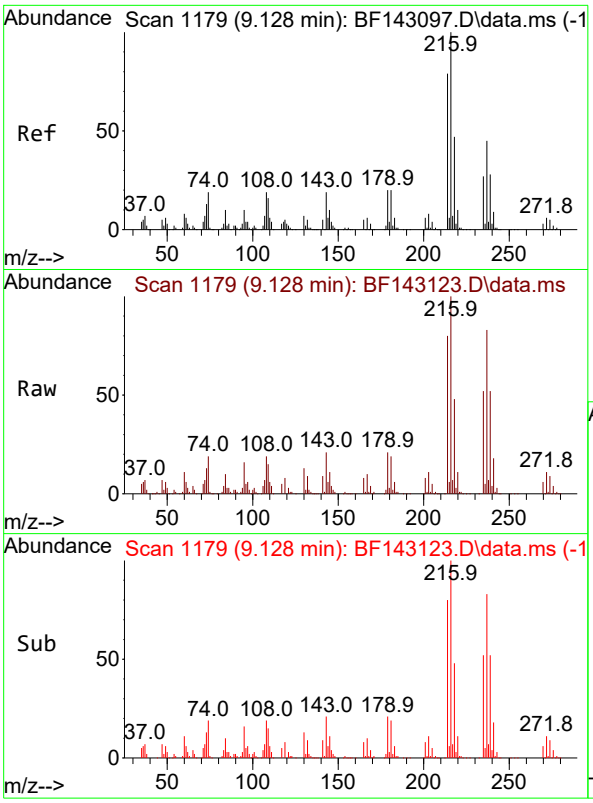


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.004 min Scan# 1328
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:164 Resp: 296871

Ion	Ratio	Lower	Upper
164	100		
162	96.8	79.0	118.6
160	43.5	35.8	53.6

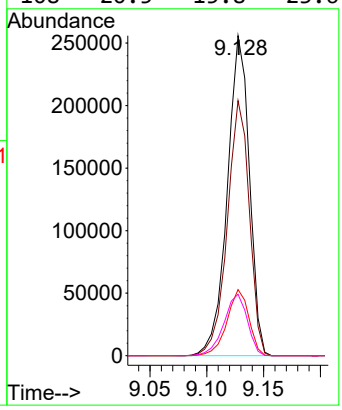




#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.964 ng
RT: 9.128 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:216 Resp: 34575

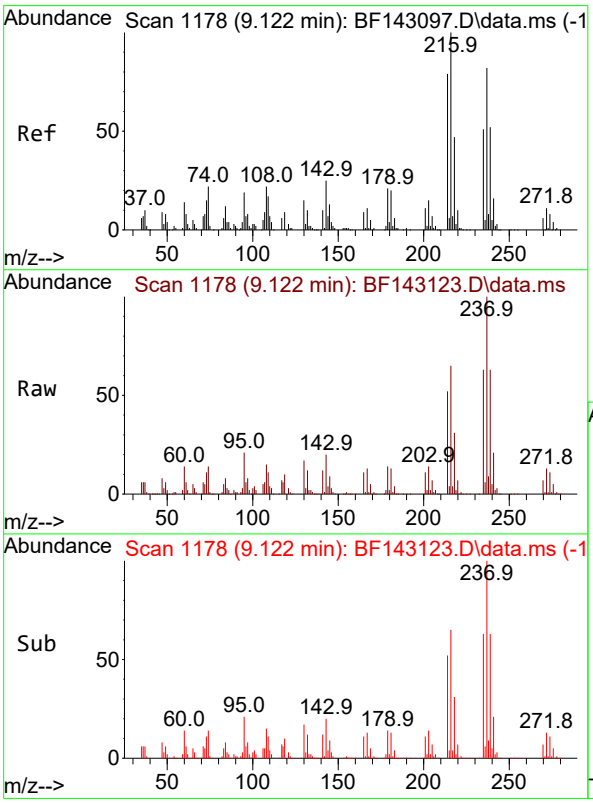
Ion	Ratio	Lower	Upper
216	100		
214	79.3	62.6	94.0
179	20.5	16.2	24.2
108	20.5	15.8	23.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

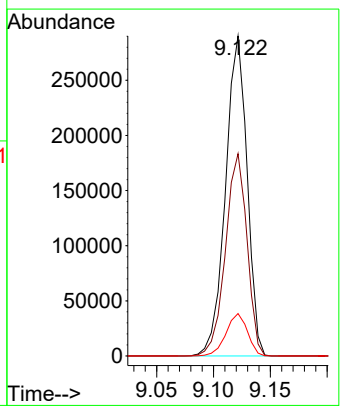
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

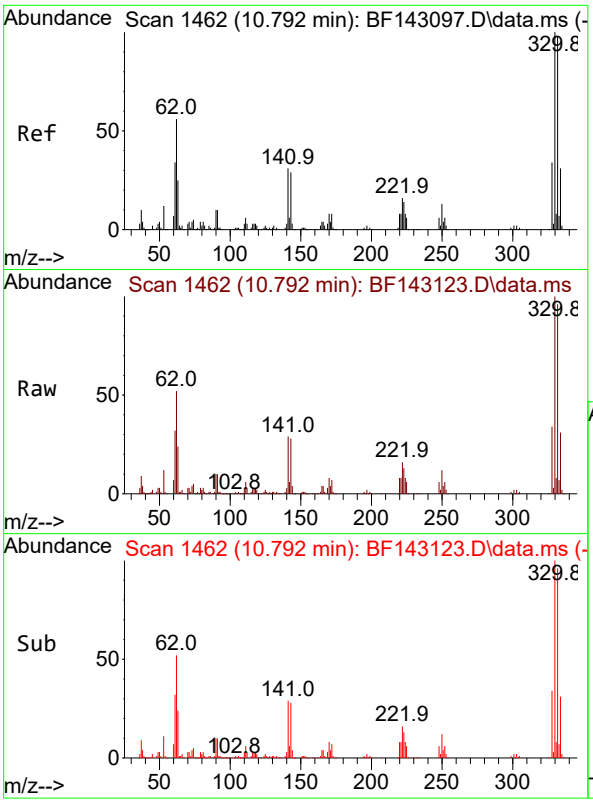


#41
Hexachlorocyclopentadiene
Concen: 79.887 ng
RT: 9.122 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:237 Resp: 383185

Ion	Ratio	Lower	Upper
237	100		
235	63.2	41.6	81.6
272	13.3	0.0	32.9

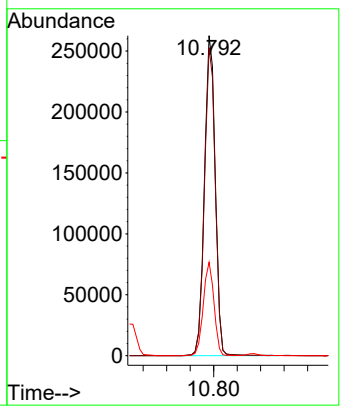




#42
2,4,6-Tribromophenol
Concen: 126.918 ng
RT: 10.792 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:330 Resp: 33595

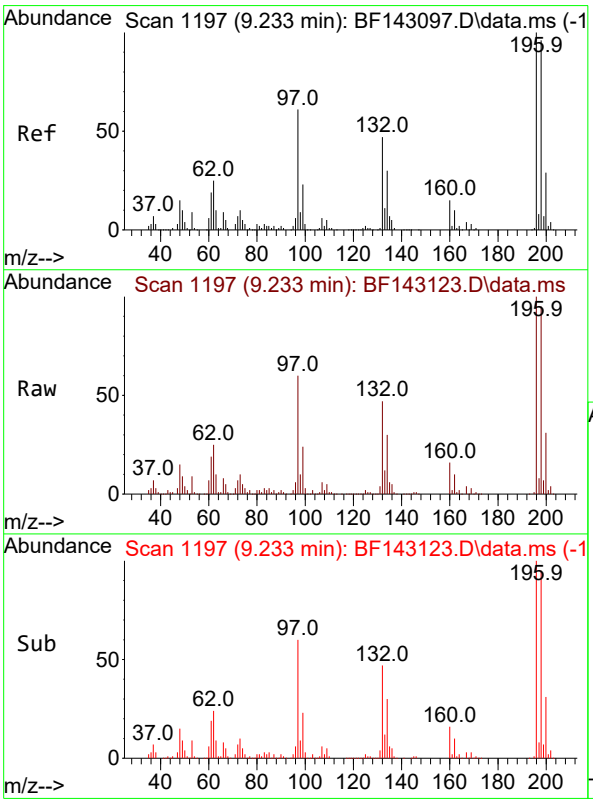
Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.9	116.9
141	29.0	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

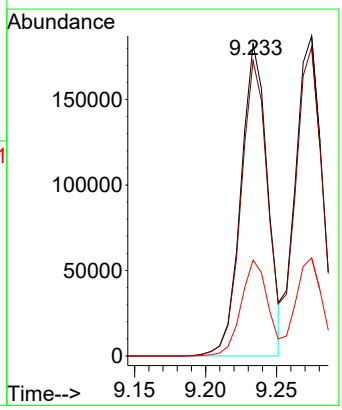
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

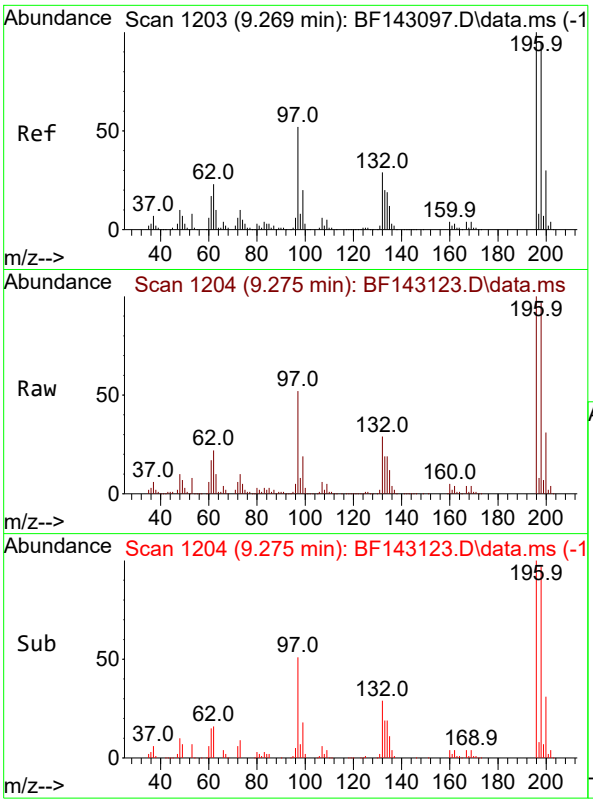


#43
2,4,6-Trichlorophenol
Concen: 44.192 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:196 Resp: 237559

Ion	Ratio	Lower	Upper
196	100		
198	94.6	76.9	115.3
200	30.7	23.5	35.3

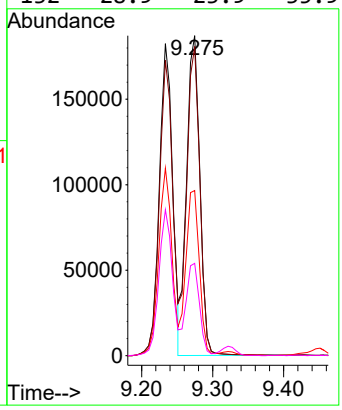




#44
2,4,5-Trichlorophenol
Concen: 43.128 ng
RT: 9.275 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:196 Resp: 24309

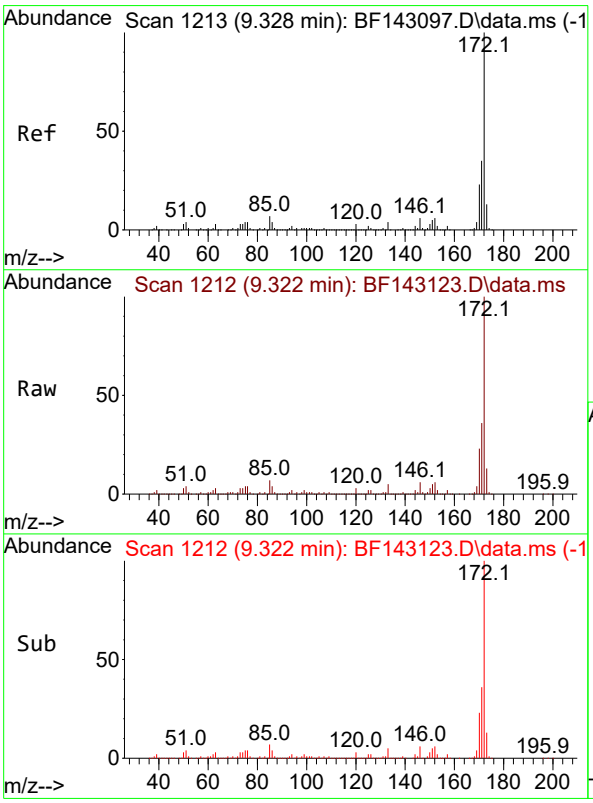
Ion	Ratio	Lower	Upper
196	100		
198	96.6	76.4	114.6
97	51.6	42.4	63.6
132	28.9	23.9	35.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

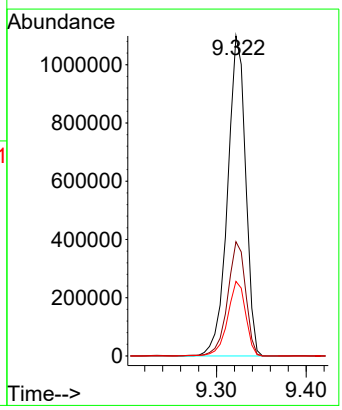
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

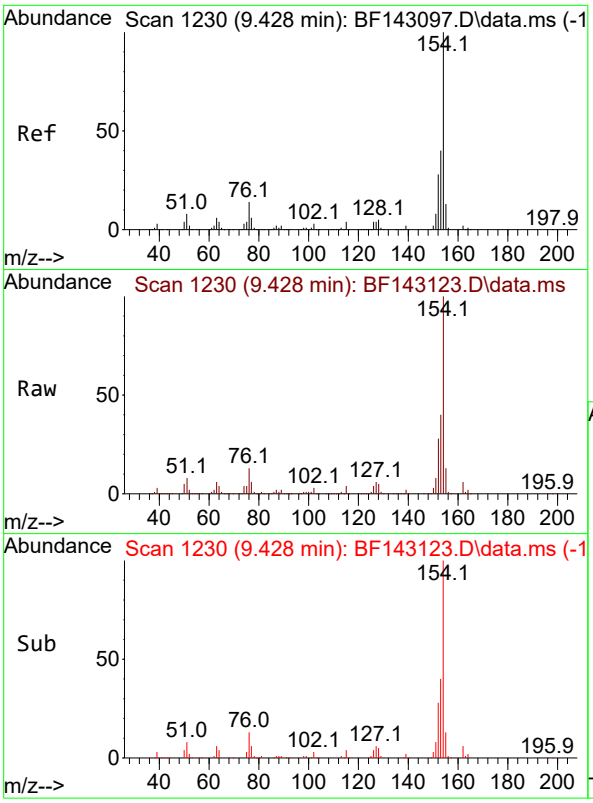


#45
2-Fluorobiphenyl
Concen: 68.578 ng
RT: 9.322 min Scan# 1212
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:172 Resp: 1531577

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.2	42.4
170	23.3	18.6	28.0

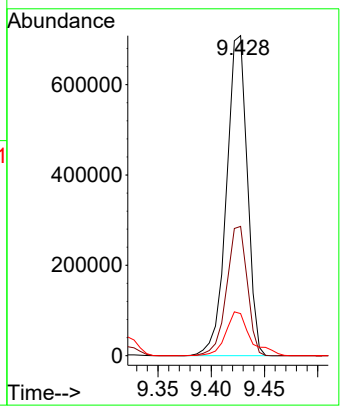




#46
1,1'-Biphenyl
Concen: 40.430 ng
RT: 9.428 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:154 Resp: 95716

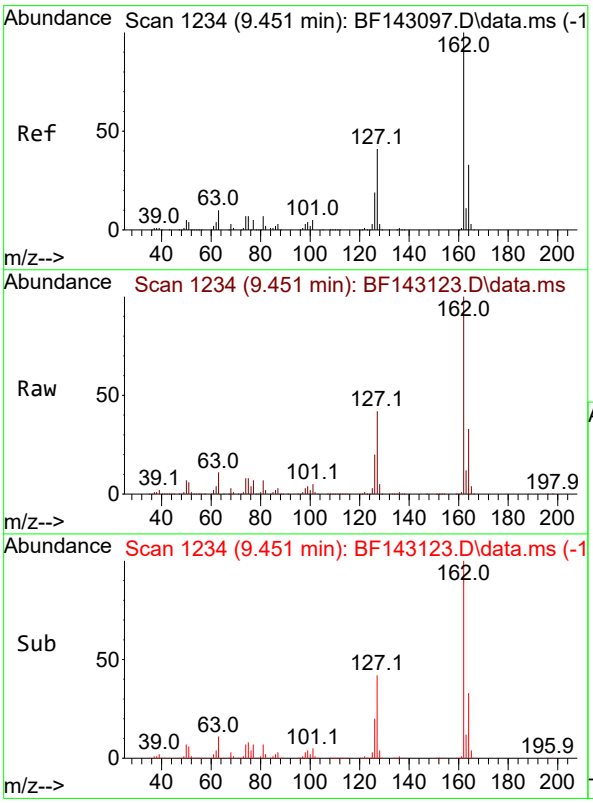
Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.1	60.1
76	13.1	0.0	33.7



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

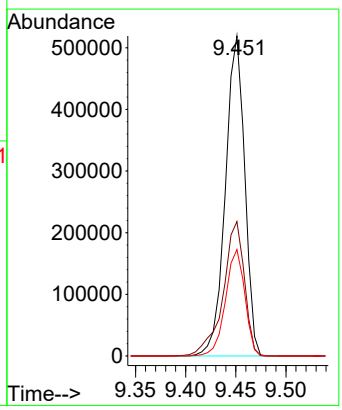
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

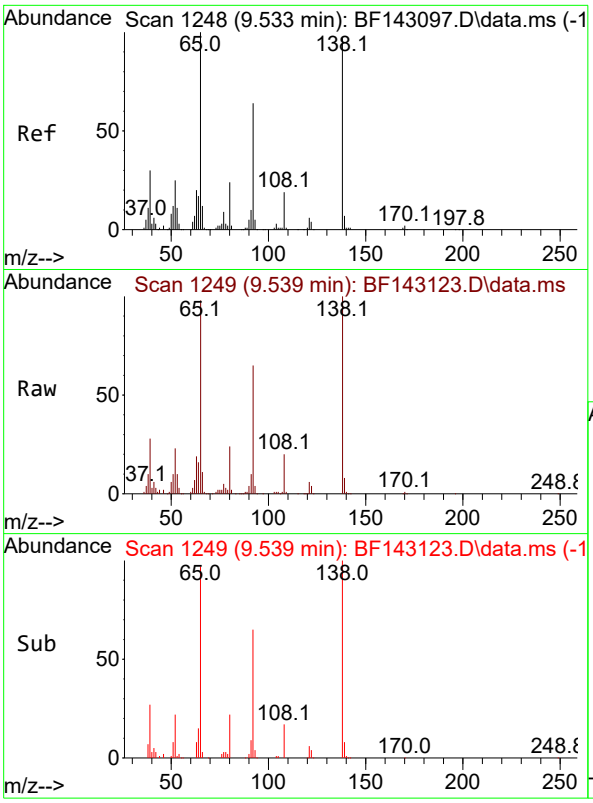


#47
2-Chloronaphthalene
Concen: 39.937 ng
RT: 9.451 min Scan# 1234
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:162 Resp: 694587

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.0	49.6
164	33.3	26.1	39.1





#48
2-Nitroaniline
Concen: 44.159 ng
RT: 9.539 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

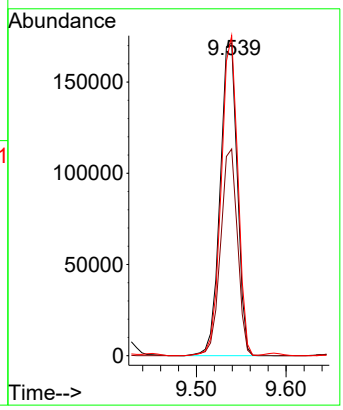
Tgt Ion: 65 Resp: 22789

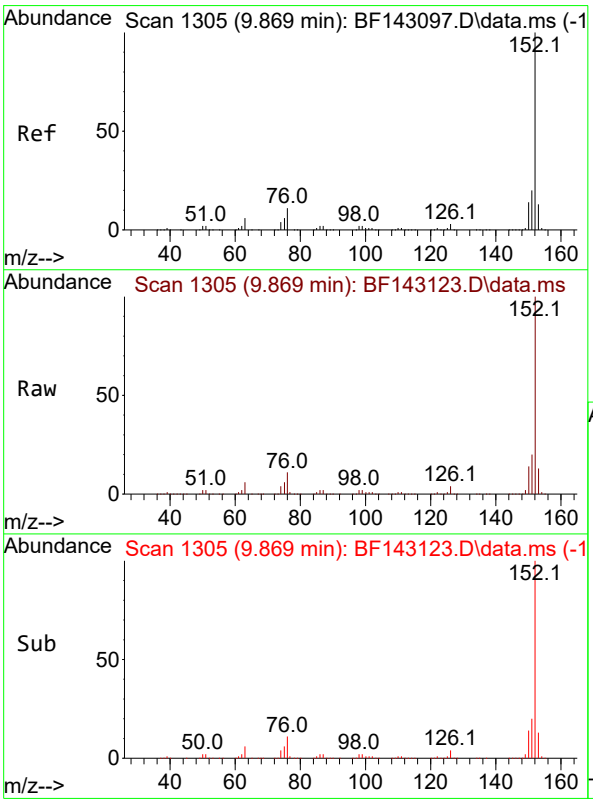
Ion	Ratio	Lower	Upper
65	100		
92	66.1	51.3	76.9
138	102.3	77.8	116.6

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

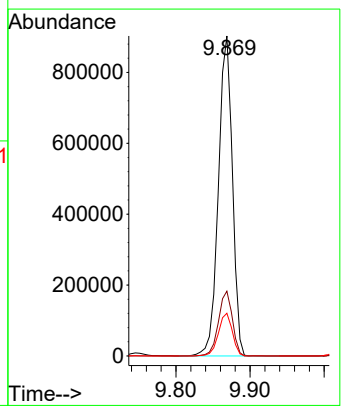


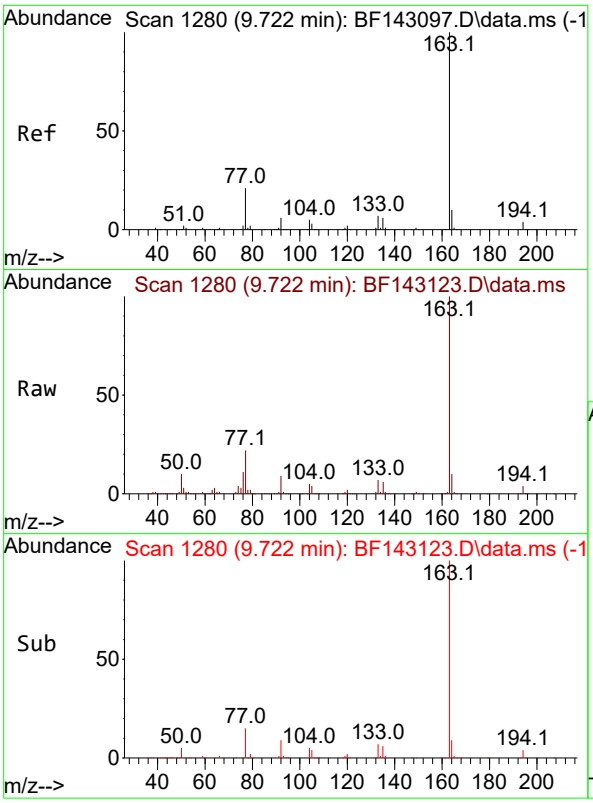


#49
Acenaphthylene
Concen: 40.849 ng
RT: 9.869 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:152 Resp: 1183859

Ion	Ratio	Lower	Upper
152	100		
151	20.2	15.8	23.8
153	13.4	10.4	15.6

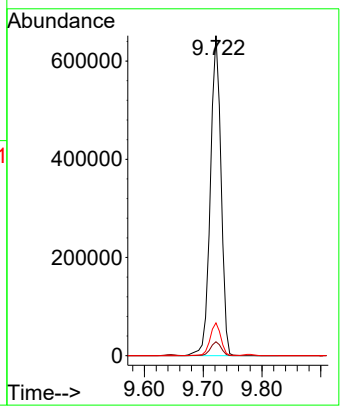




#50
Dimethylphthalate
Concen: 44.031 ng
RT: 9.722 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:163 Resp: 82234

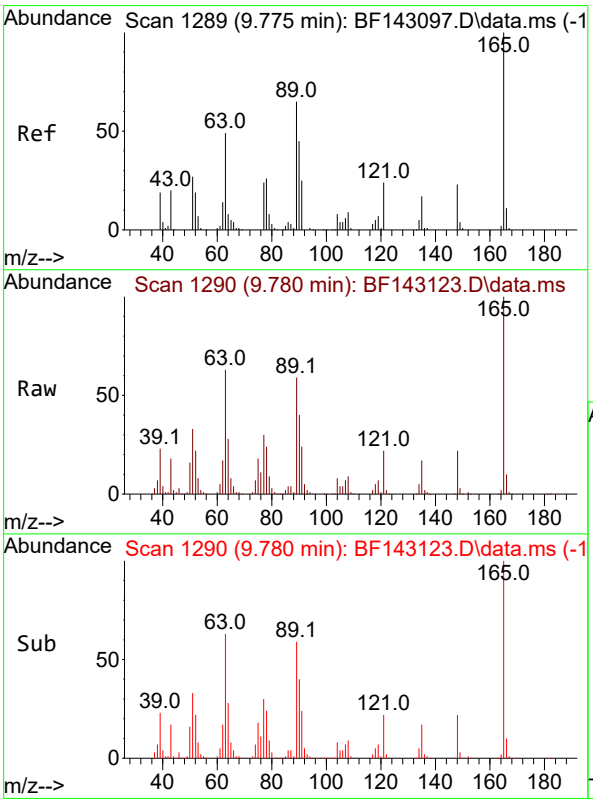
Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.2
164	10.2	8.2	12.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

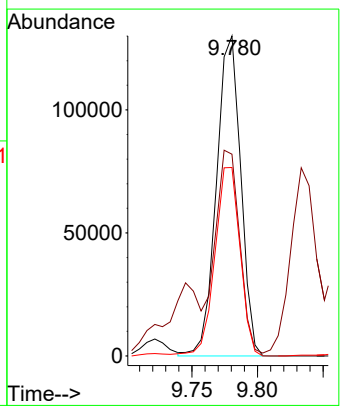
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

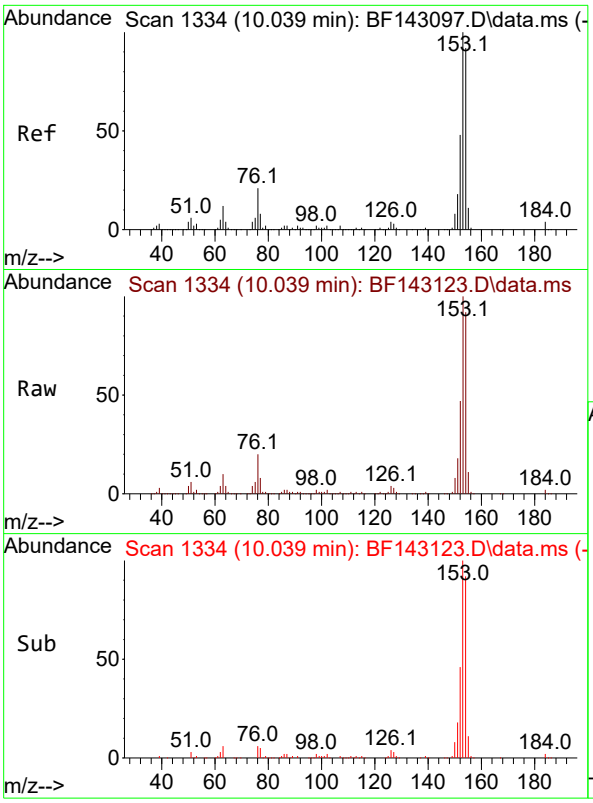


#51
2,6-Dinitrotoluene
Concen: 45.539 ng
RT: 9.780 min Scan# 1290
Delta R.T. 0.005 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:165 Resp: 167499

Ion	Ratio	Lower	Upper
165	100		
63	63.1	57.4	86.0
89	58.9	51.8	77.8

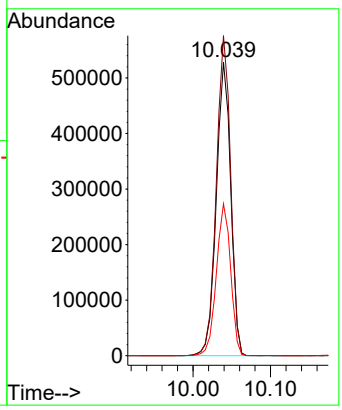




#52
Acenaphthene
Concen: 39.930 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:154 Resp: 68290

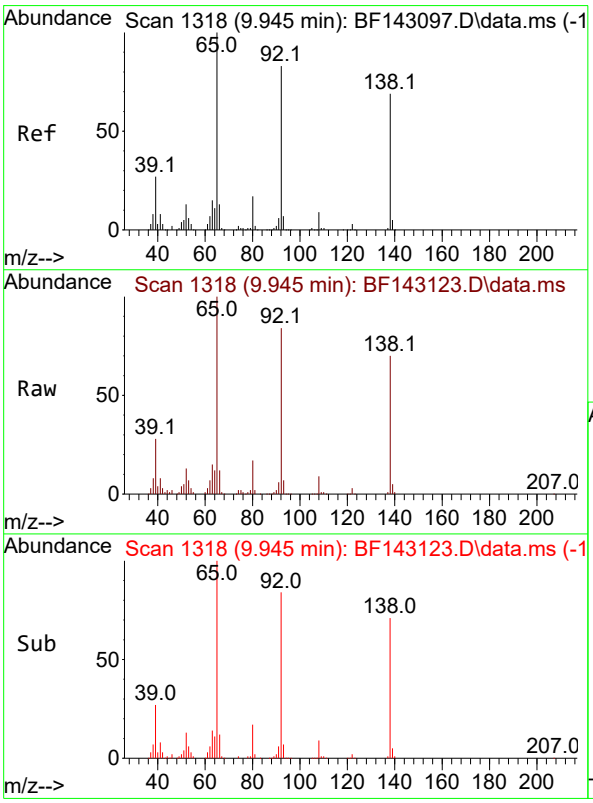
Ion	Ratio	Lower	Upper
154	100		
153	109.0	86.7	130.1
152	51.7	41.4	62.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

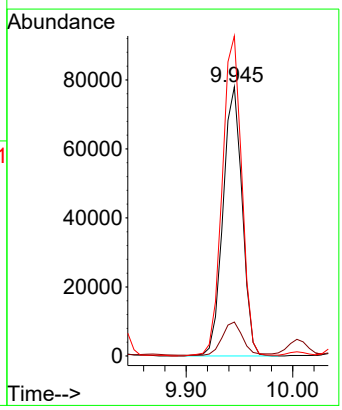
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

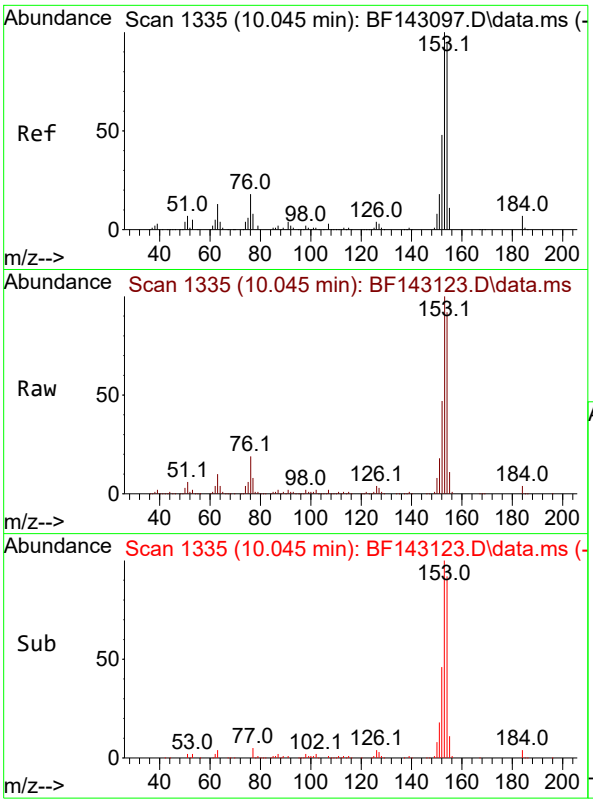


#53
3-Nitroaniline
Concen: 24.084 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:138 Resp: 97193

Ion	Ratio	Lower	Upper
138	100		
108	12.6	10.1	15.1
92	118.9	96.4	144.6

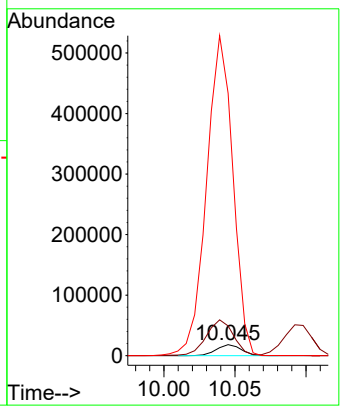




#54
2,4-Dinitrophenol
Concen: 24.116 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:184 Resp: 2205

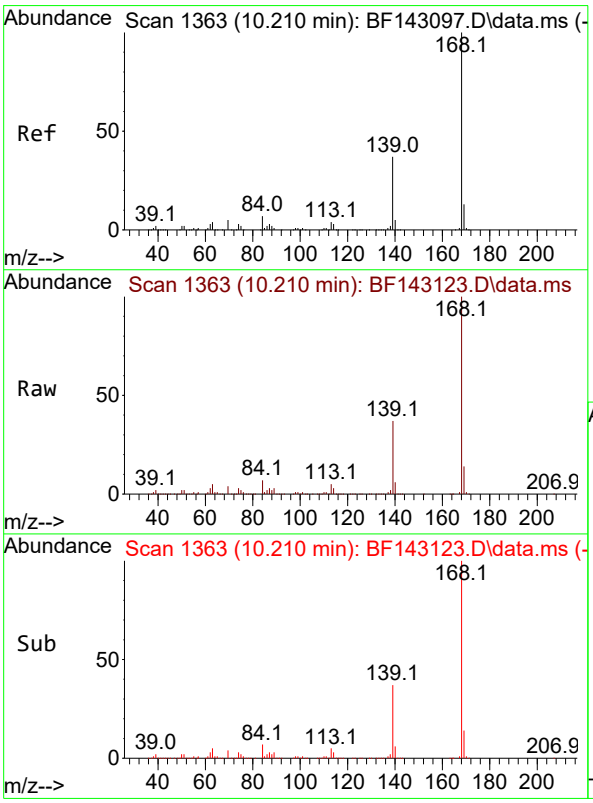
Ion	Ratio	Lower	Upper
184	100		
63	271.8	149.3	223.9
154	2390.5	1048.0	157



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

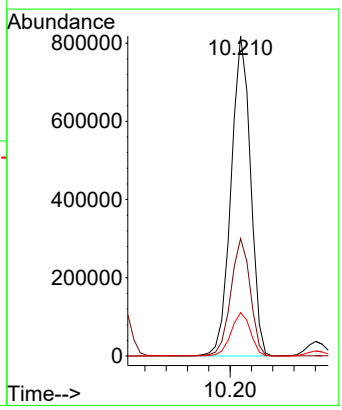
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

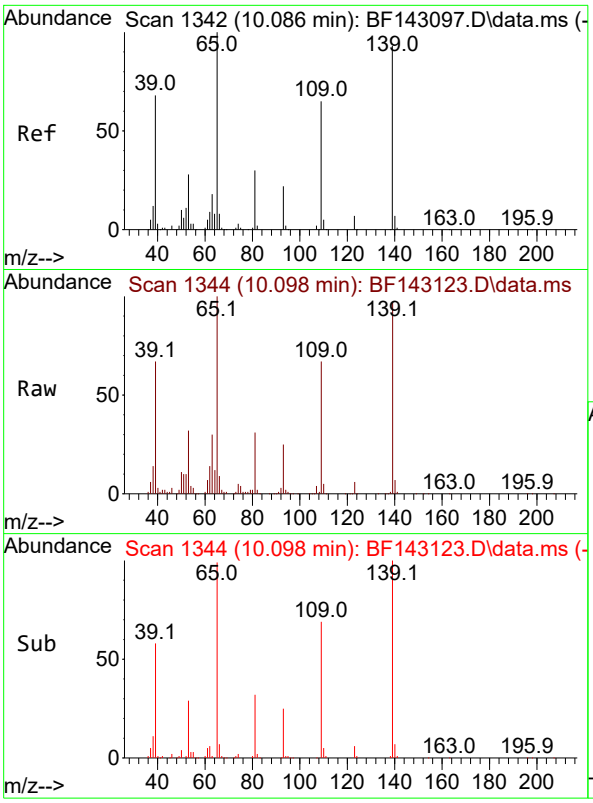


#55
Dibenzofuran
Concen: 40.822 ng
RT: 10.210 min Scan# 1363
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:168 Resp: 1040598

Ion	Ratio	Lower	Upper
168	100		
139	36.7	29.8	44.6
169	13.6	10.8	16.2

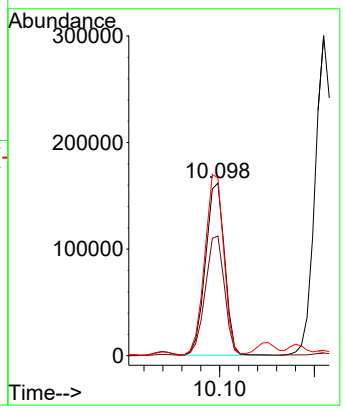




#56
4-Nitrophenol
Concen: 70.644 ng
RT: 10.098 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:139 Resp: 22657

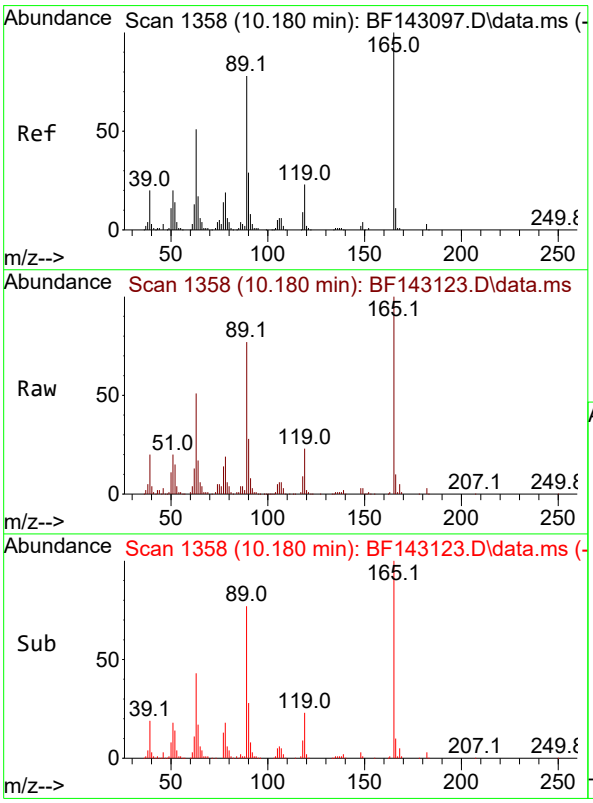
Ion	Ratio	Lower	Upper
139	100		
109	69.3	49.4	89.4
65	102.9	88.2	128.2



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

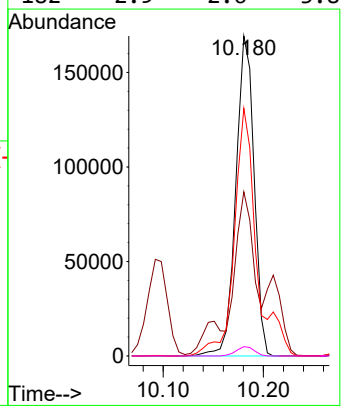
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

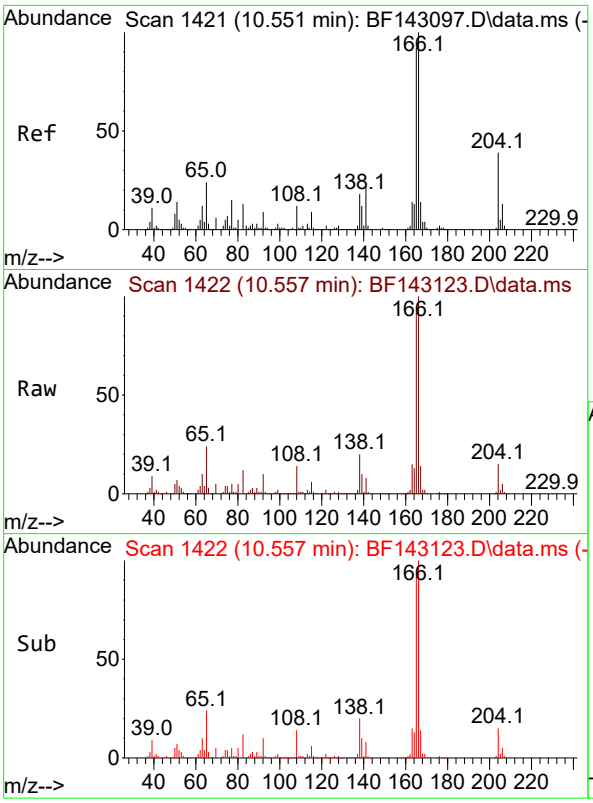


#57
2,4-Dinitrotoluene
Concen: 46.591 ng
RT: 10.180 min Scan# 1358
Delta R.T. 0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:165 Resp: 214229

Ion	Ratio	Lower	Upper
165	100		
63	51.3	40.6	61.0
89	77.4	62.3	93.5
182	2.9	2.6	3.8

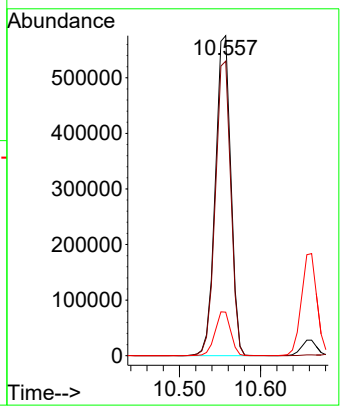




#58
Fluorene
Concen: 40.011 ng
RT: 10.557 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:166 Resp: 76467

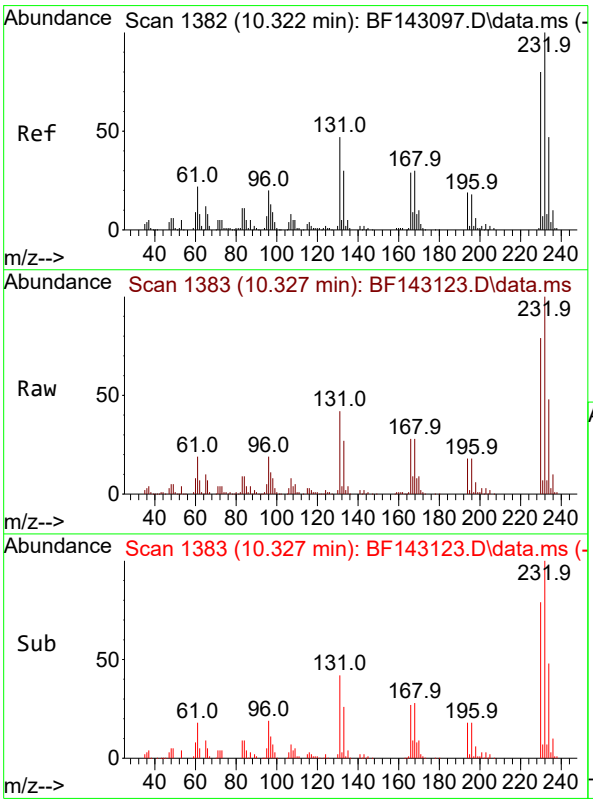
Ion	Ratio	Lower	Upper
166	100		
165	92.0	73.7	110.5
167	13.6	10.9	16.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

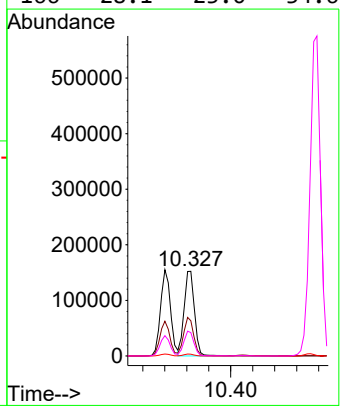
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

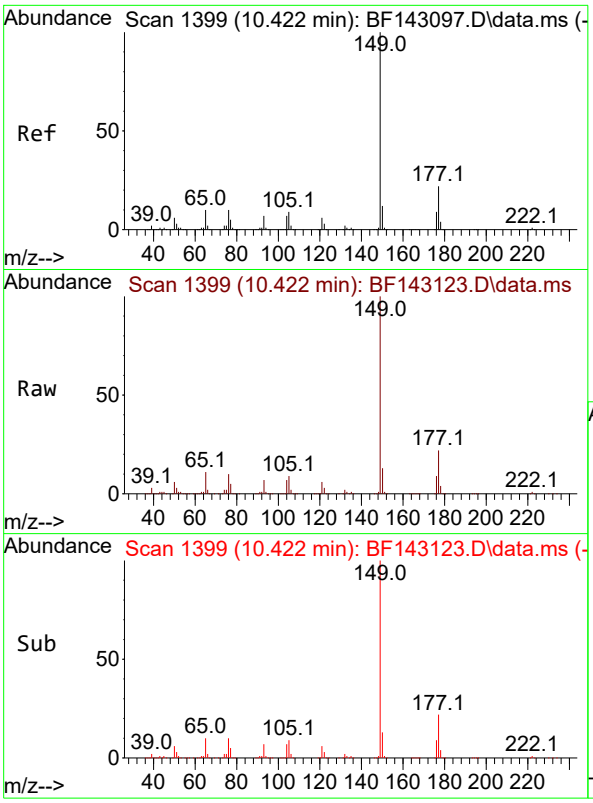


#59
2,3,4,6-Tetrachlorophenol
Concen: 44.577 ng
RT: 10.327 min Scan# 1383
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:232 Resp: 199674

Ion	Ratio	Lower	Upper
232	100		
131	43.9	36.9	55.3
130	2.1	1.8	2.8
166	28.1	23.0	34.6

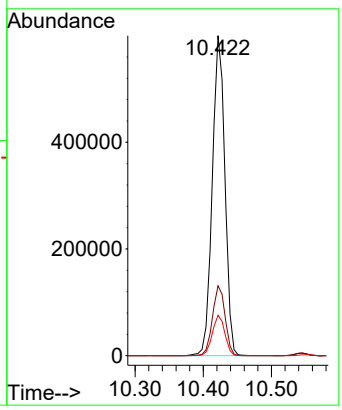




#60
Diethylphthalate
Concen: 42.818 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:149 Resp: 77152

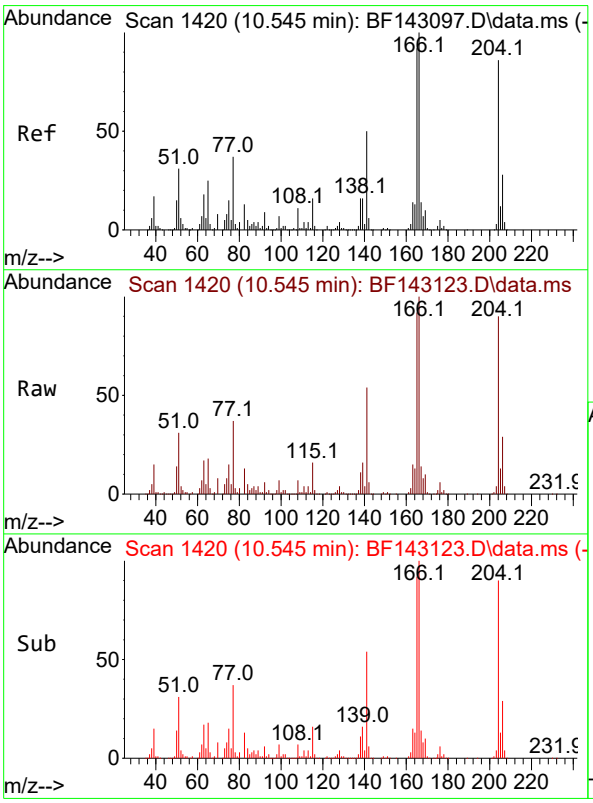
Ion	Ratio	Lower	Upper
149	100		
177	21.9	17.3	25.9
150	12.6	9.9	14.9



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

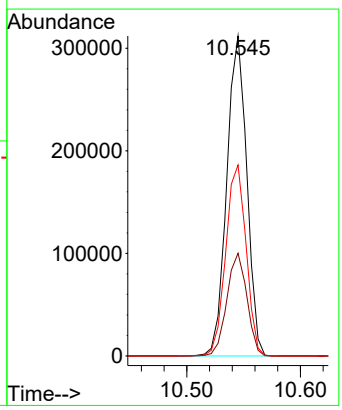
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

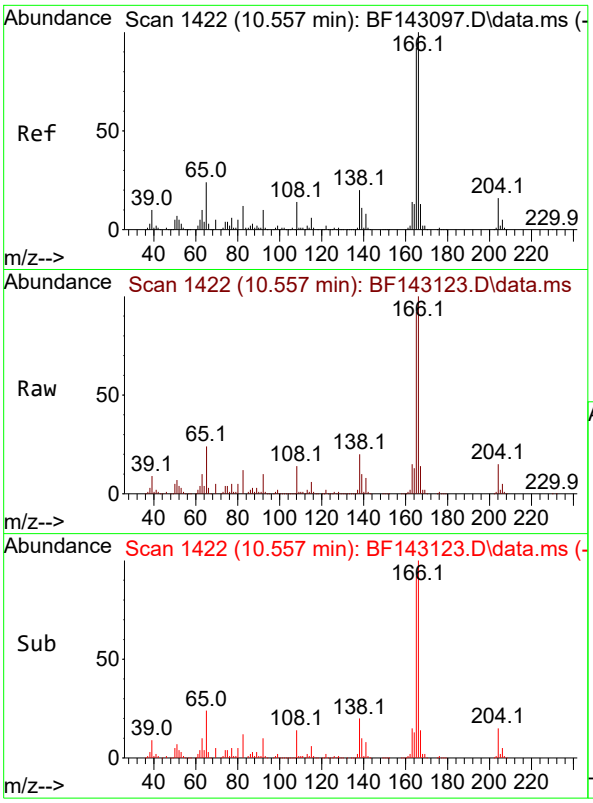


#61
4-Chlorophenyl-phenylether
Concen: 41.698 ng
RT: 10.545 min Scan# 1420
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:204 Resp: 381957

Ion	Ratio	Lower	Upper
204	100		
206	32.1	25.8	38.6
141	59.7	46.8	70.2

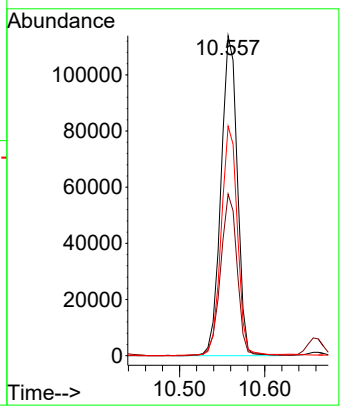




#62
4-Nitroaniline
Concen: 43.324 ng
RT: 10.557 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:138 Resp: 15204

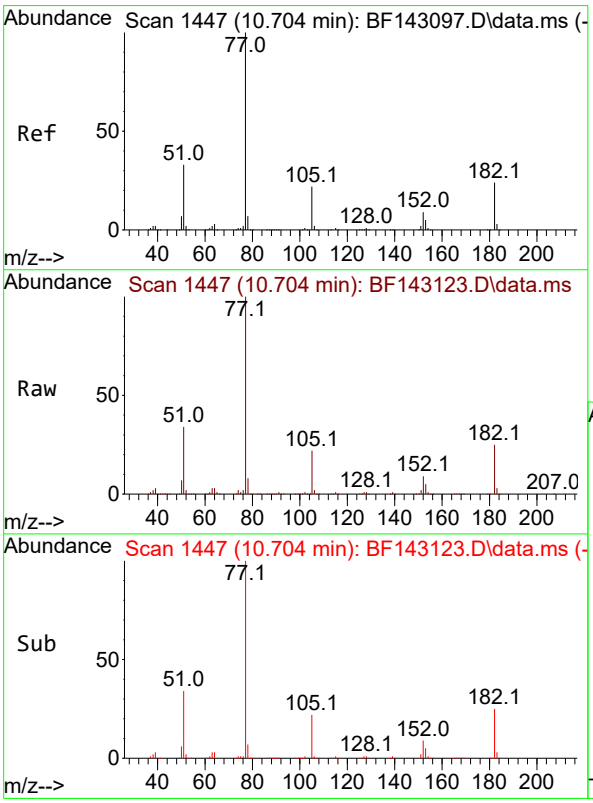
Ion	Ratio	Lower	Upper
138	100		
92	50.5	30.4	70.4
108	71.7	49.5	89.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

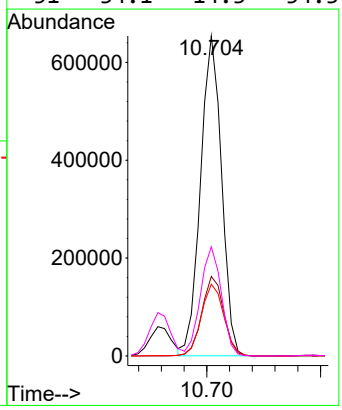
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

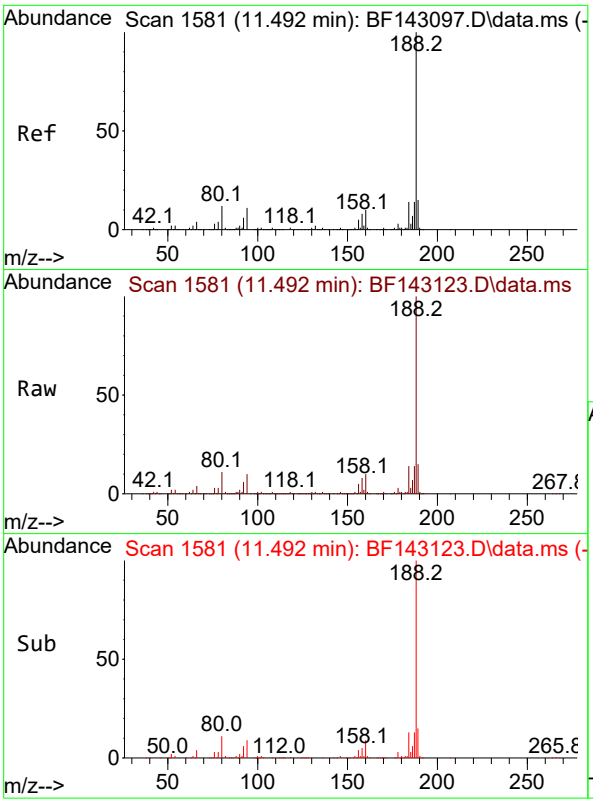


#63
Azobenzene
Concen: 42.203 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion: 77 Resp: 841015

Ion	Ratio	Lower	Upper
77	100		
182	24.8	4.0	44.0
105	22.4	1.4	41.4
51	34.1	14.3	54.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.492 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

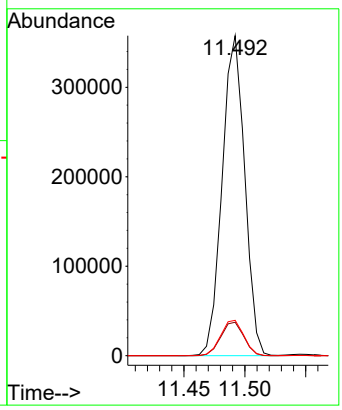
Tgt Ion:188 Resp: 46180

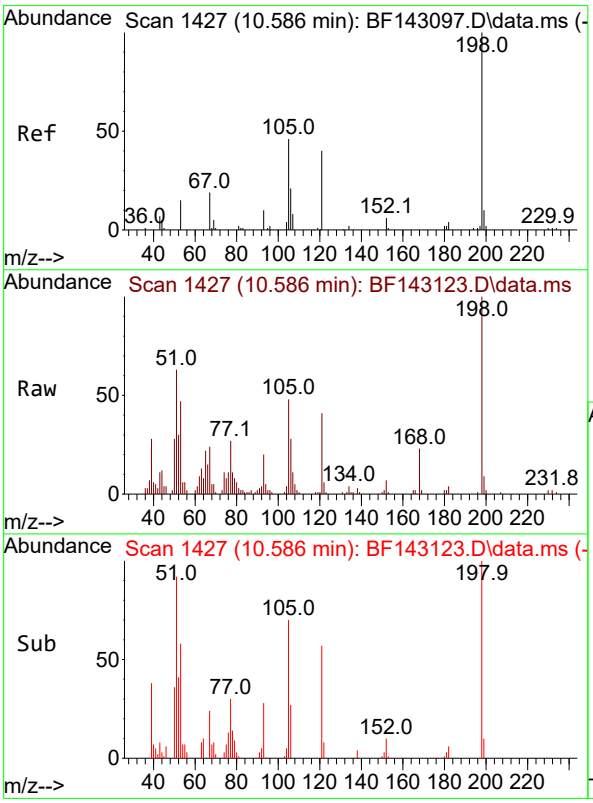
Ion	Ratio	Lower	Upper
188	100		
94	10.4	8.6	13.0
80	11.0	9.3	13.9

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

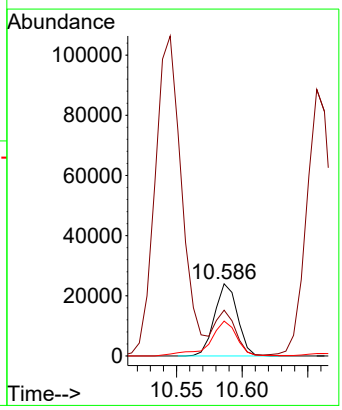


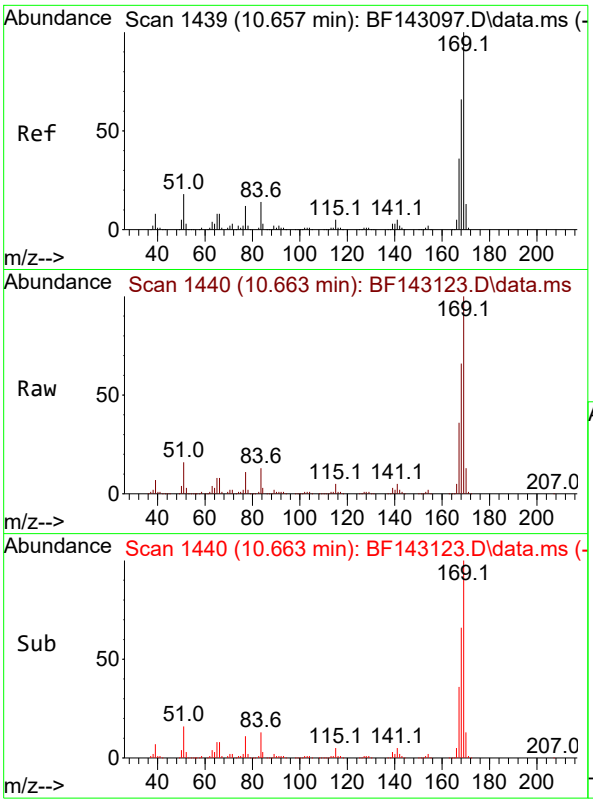


#65
4,6-Dinitro-2-methylphenol
Concen: 22.144 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:198 Resp: 29165

Ion	Ratio	Lower	Upper
198	100		
51	63.4	44.6	84.6
105	48.2	29.3	69.3

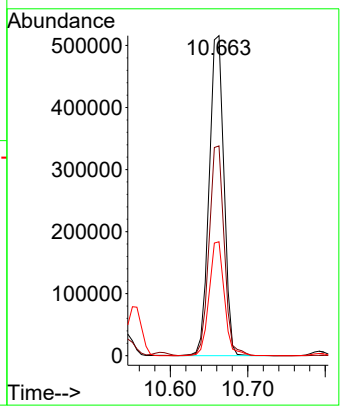




#66
n-Nitrosodiphenylamine
Concen: 42.051 ng
RT: 10.663 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:169 Resp: 68213

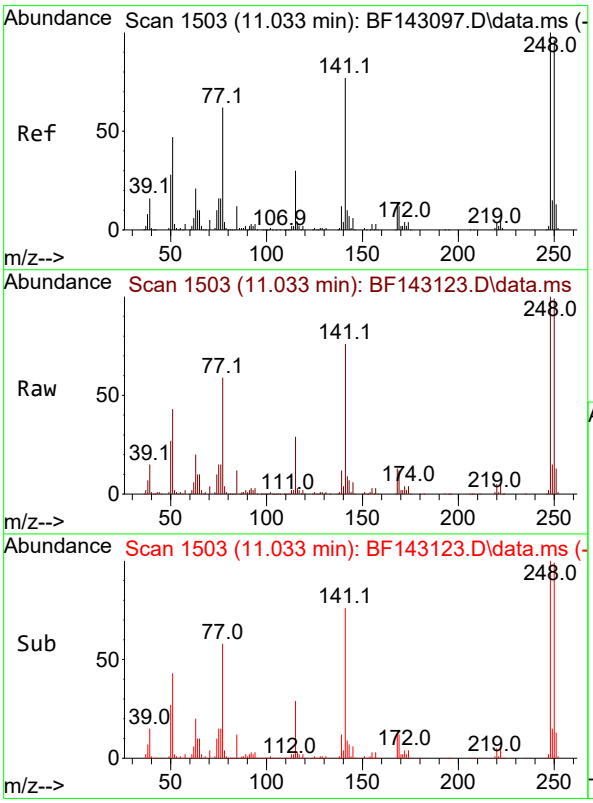
Ion	Ratio	Lower	Upper
169	100		
168	65.6	53.0	79.6
167	35.6	28.4	42.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

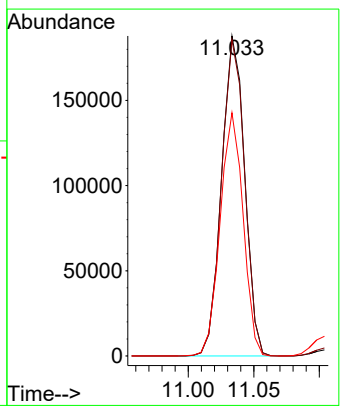
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

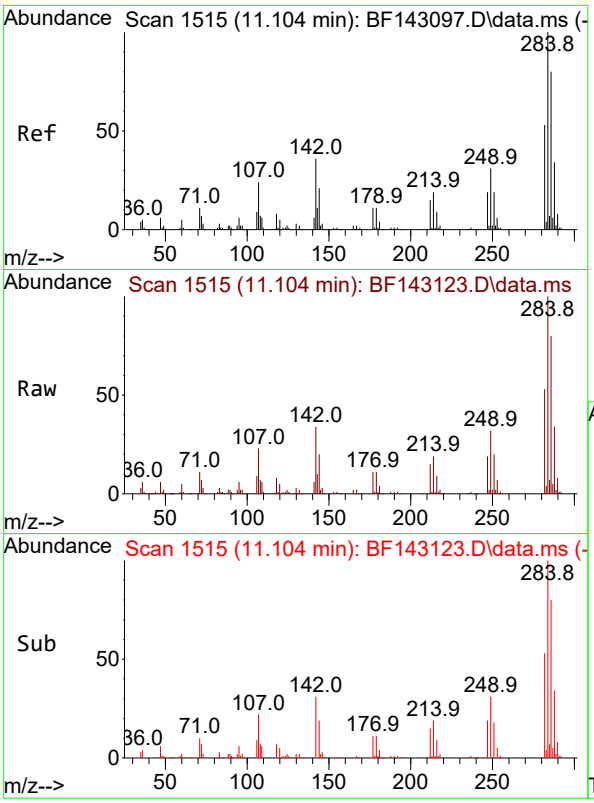


#67
4-Bromophenyl-phenylether
Concen: 43.804 ng
RT: 11.033 min Scan# 1503
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:248 Resp: 230049

Ion	Ratio	Lower	Upper
248	100		
250	98.8	76.7	115.1
141	76.0	61.7	92.5

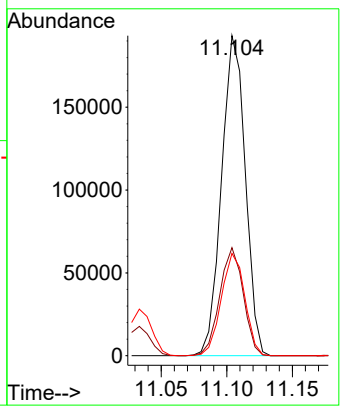




#68
Hexachlorobenzene
Concen: 43.638 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:284 Resp: 24316

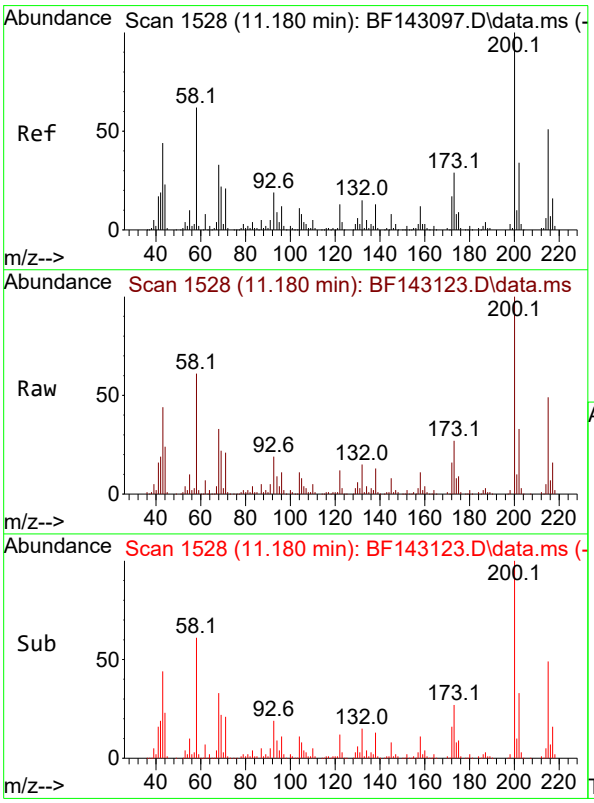
Ion	Ratio	Lower	Upper
284	100		
142	33.8	28.9	43.3
249	32.0	24.6	37.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

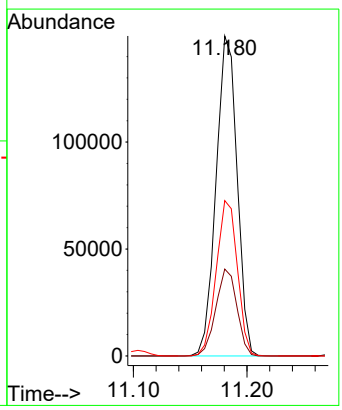
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

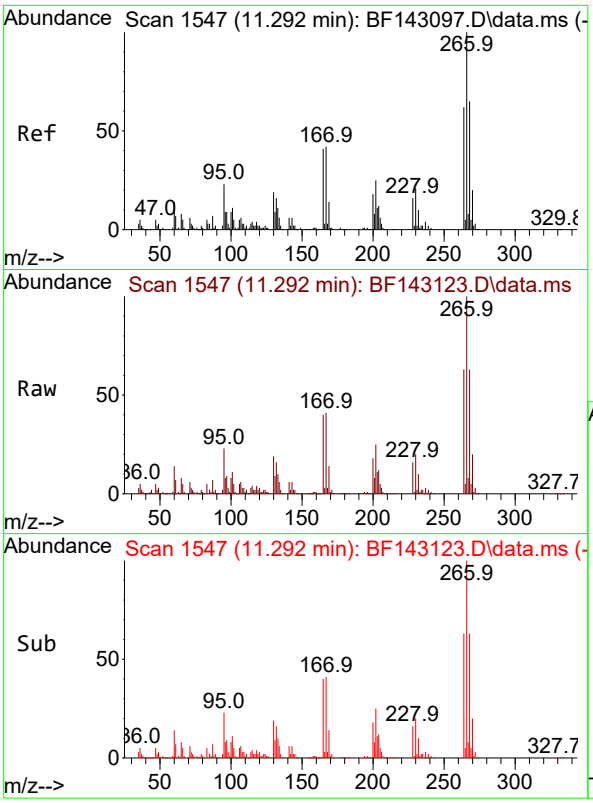


#69
Atrazine
Concen: 46.405 ng
RT: 11.180 min Scan# 1528
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:200 Resp: 192588

Ion	Ratio	Lower	Upper
200	100		
173	27.1	9.1	49.1
215	48.6	31.0	71.0

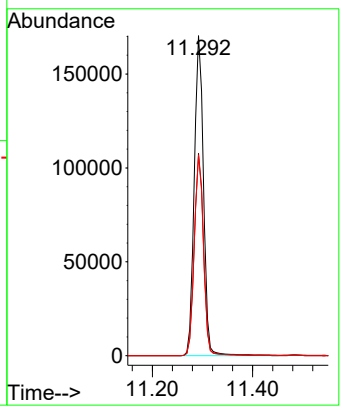




#70
Pentachlorophenol
Concen: 71.314 ng
RT: 11.292 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:266 Resp: 21802

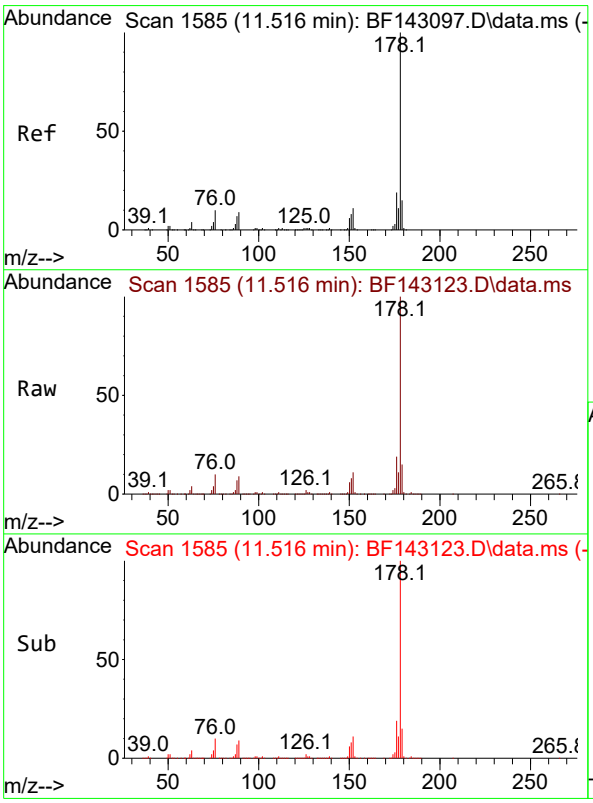
Ion	Ratio	Lower	Upper
266	100		
268	63.2	51.8	77.6
264	62.7	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

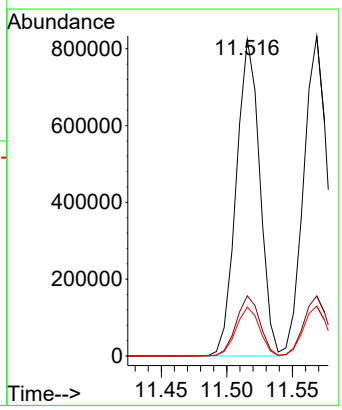
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

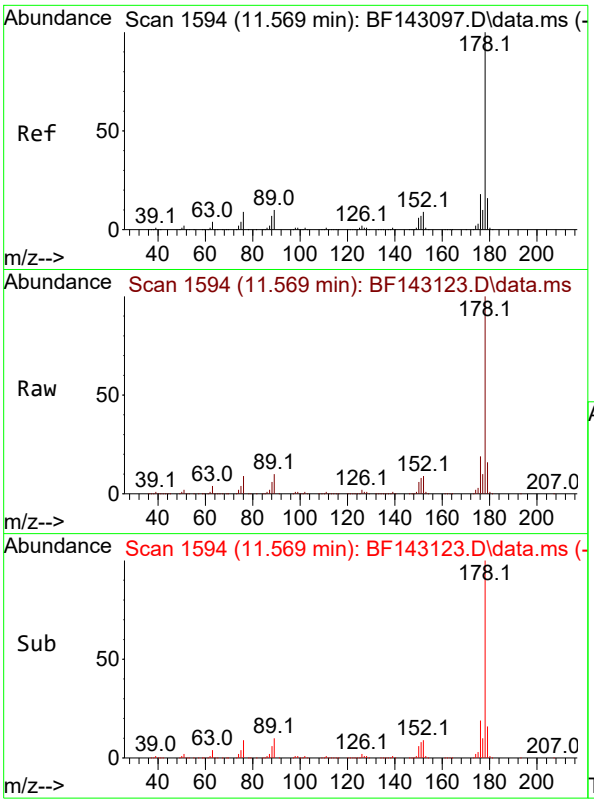


#71
Phenanthrene
Concen: 41.274 ng
RT: 11.516 min Scan# 1585
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:178 Resp: 1028670

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.1	22.7
179	15.4	12.2	18.4

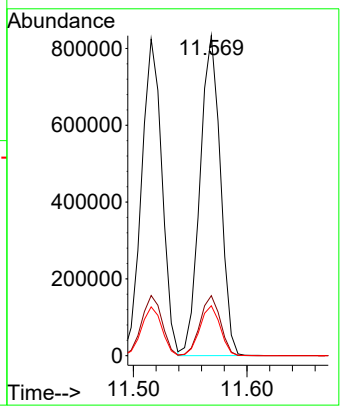




#72
Anthracene
Concen: 41.528 ng
RT: 11.569 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:178 Resp: 104080

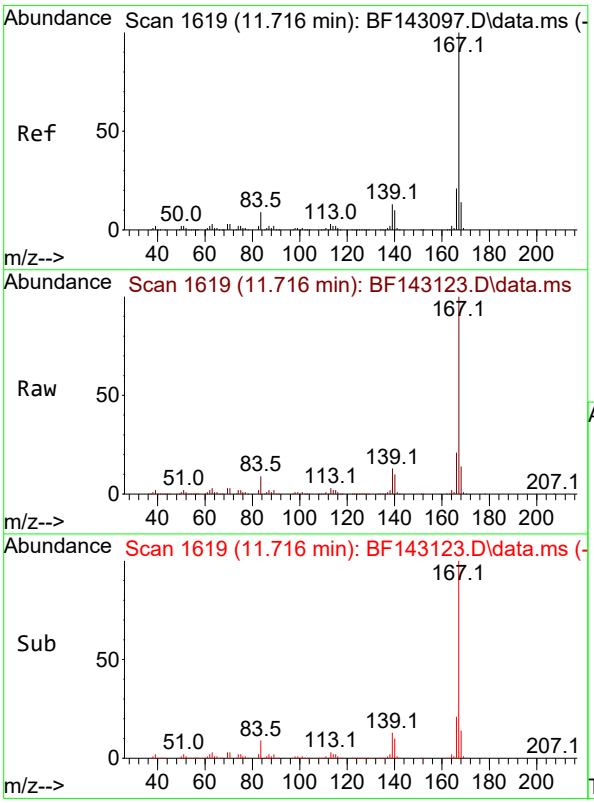
Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.6	12.4	18.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

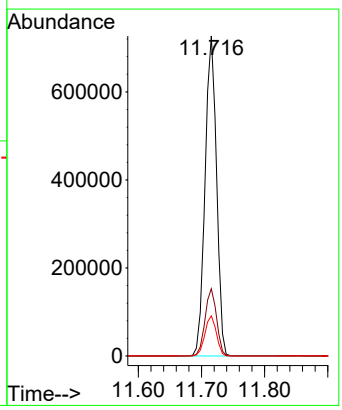
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

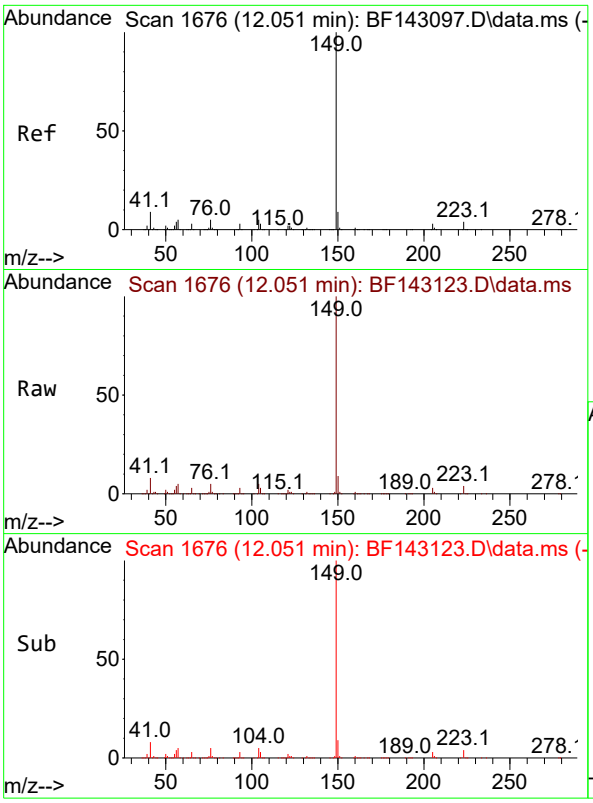


#73
Carbazole
Concen: 40.894 ng
RT: 11.716 min Scan# 1619
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:167 Resp: 918194

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.4
139	12.6	10.2	15.4

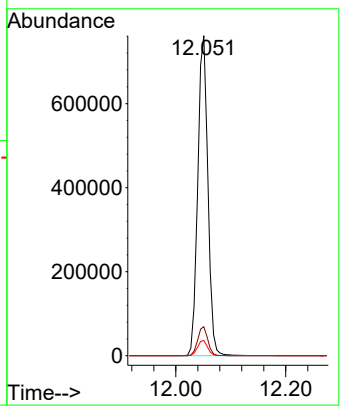




#74
Di-n-butylphthalate
Concen: 47.235 ng
RT: 12.051 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:149 Resp: 97353

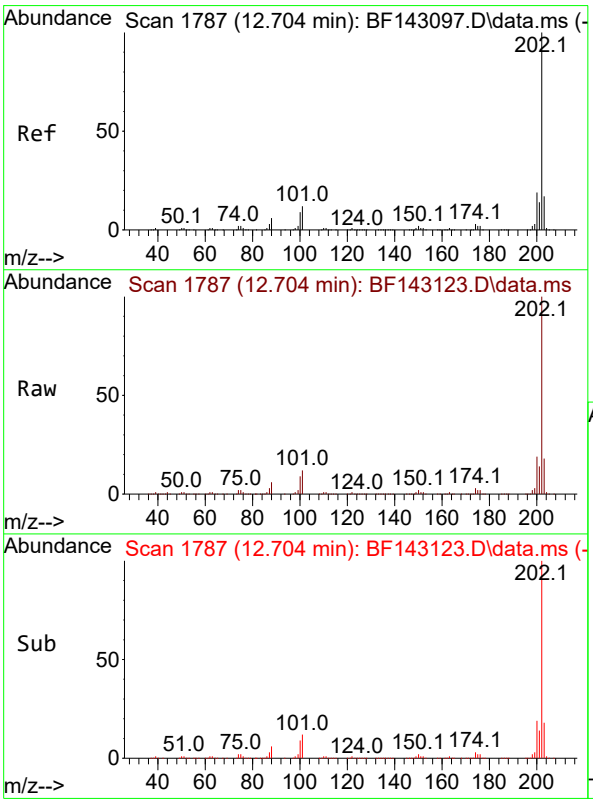
Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.7	3.8	5.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

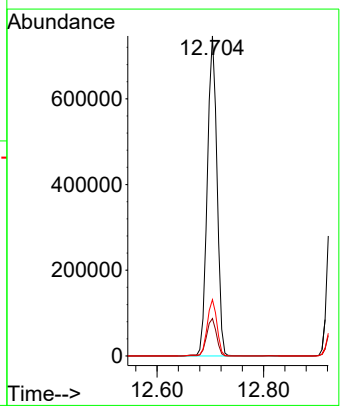
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

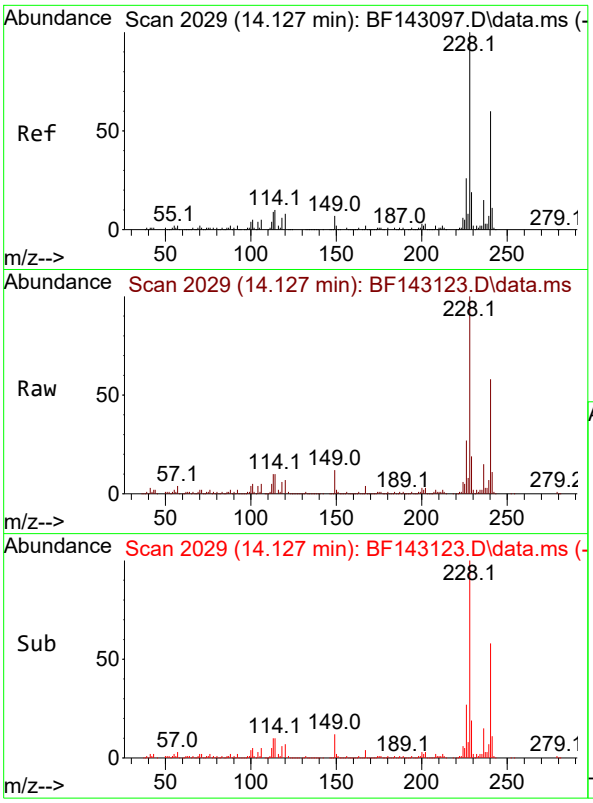


#75
Fluoranthene
Concen: 41.503 ng
RT: 12.704 min Scan# 1787
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:202 Resp: 940517

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	32.4
203	17.6	0.0	37.4

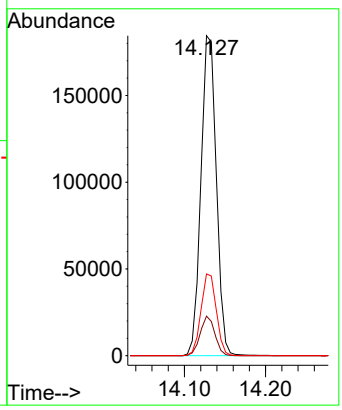




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.127 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:240 Resp: 24287

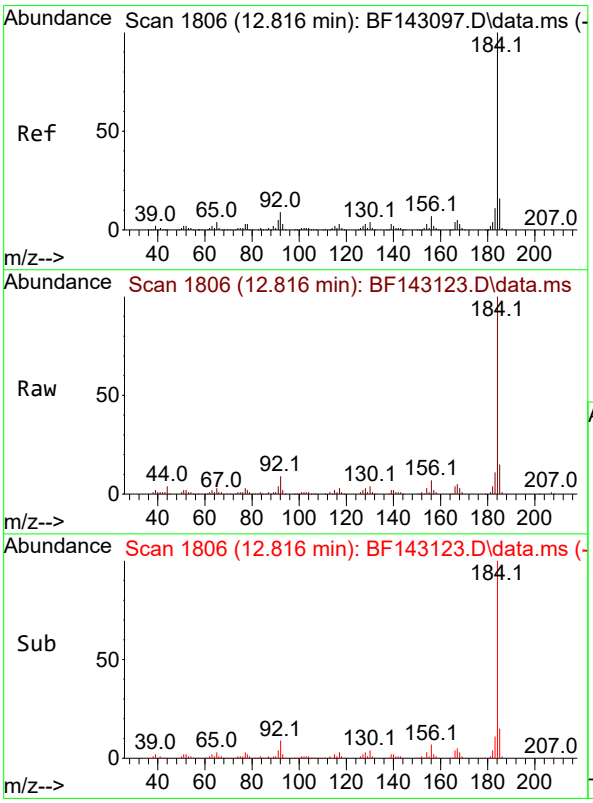
Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	25.5	20.0	30.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

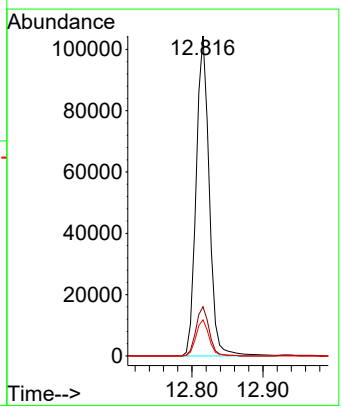
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

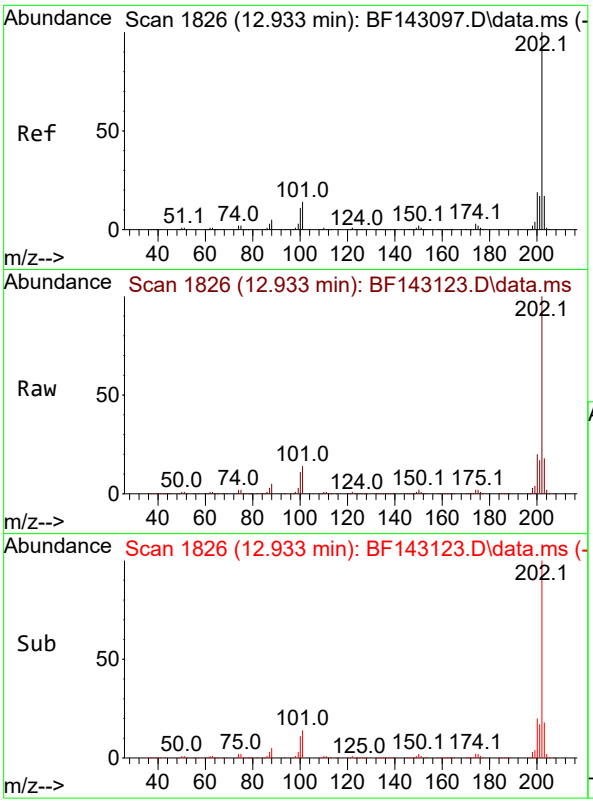


#77
Benzidine
Concen: 16.165 ng
RT: 12.816 min Scan# 1806
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:184 Resp: 133752

Ion	Ratio	Lower	Upper
184	100		
185	15.4	12.4	18.6
183	11.3	8.6	12.8

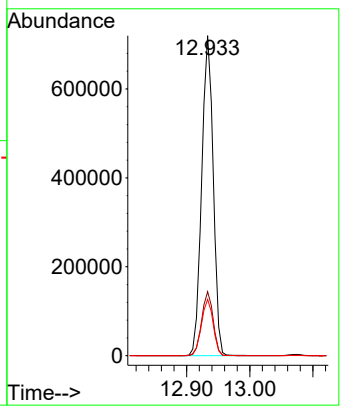




#78
Pyrene
Concen: 40.522 ng
RT: 12.933 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:202 Resp: 91314

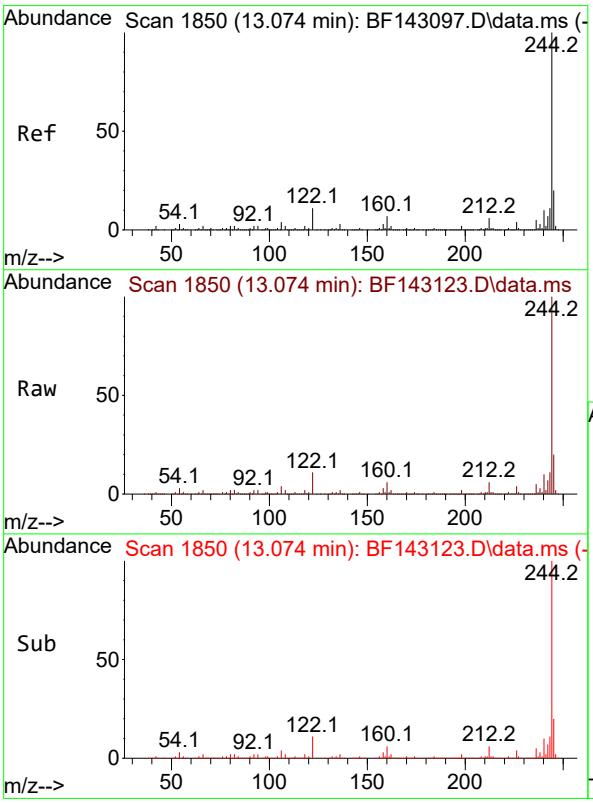
Ion	Ratio	Lower	Upper
202	100		
200	20.0	15.5	23.3
203	17.6	14.0	21.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

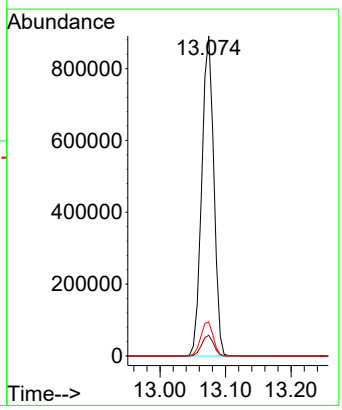
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

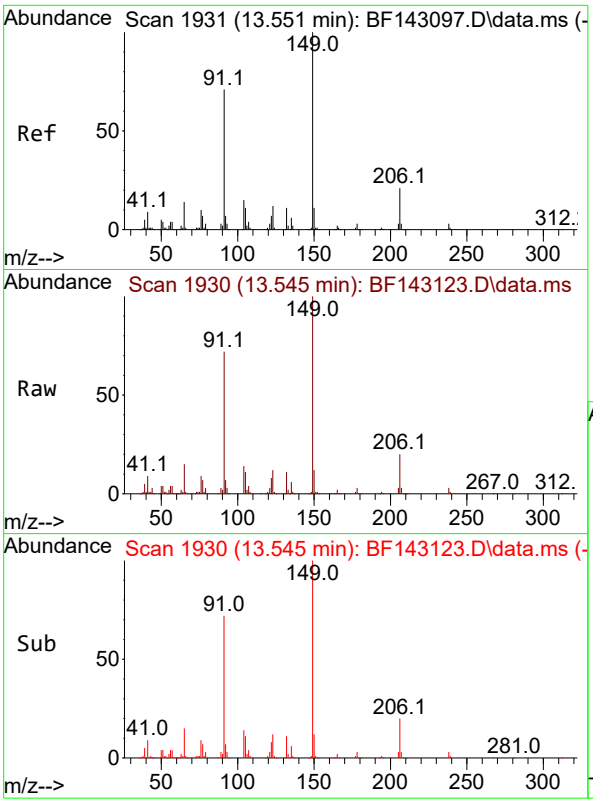


#79
Terphenyl-d14
Concen: 68.707 ng
RT: 13.074 min Scan# 1850
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:244 Resp: 1141518

Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.2	7.8
122	10.6	8.8	13.2

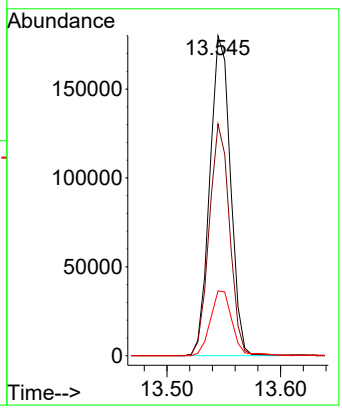




#80
Butylbenzylphthalate
Concen: 49.895 ng
RT: 13.545 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:149 Resp: 22654

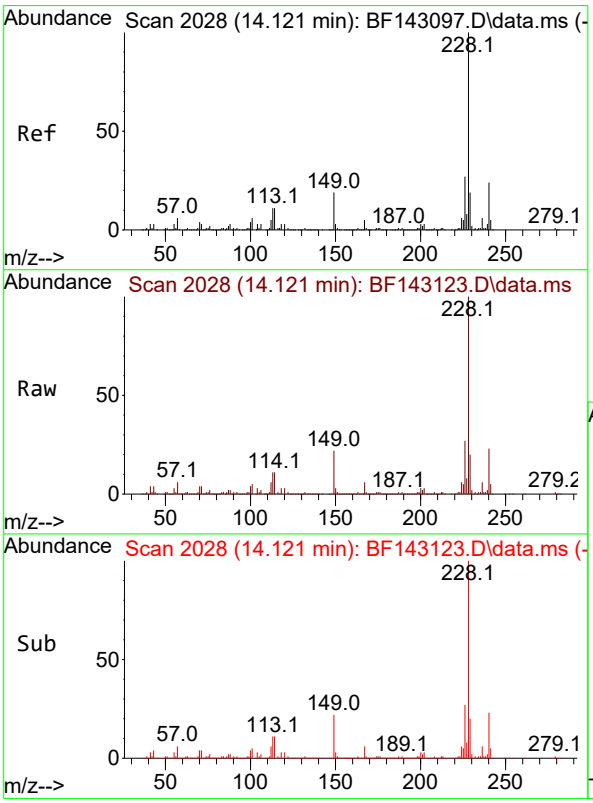
Ion	Ratio	Lower	Upper
149	100		
91	72.4	57.0	85.4
206	20.2	17.2	25.8



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

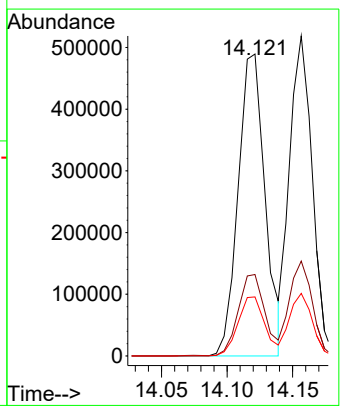
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

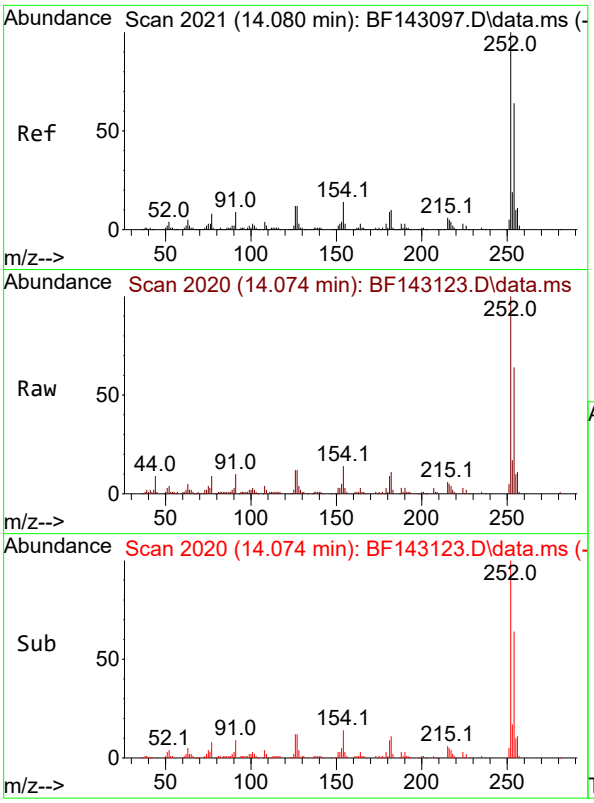


#81
Benzo(a)anthracene
Concen: 43.273 ng
RT: 14.121 min Scan# 2028
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:228 Resp: 700338

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.3	31.9
229	19.5	15.5	23.3

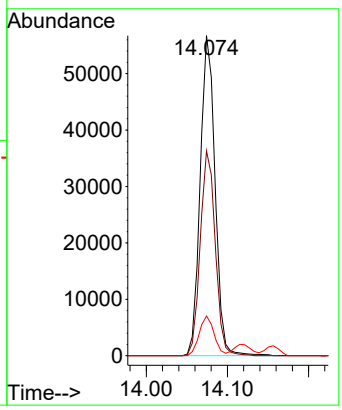




#82
3,3'-Dichlorobenzidine
Concen: 15.363 ng
RT: 14.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:252 Resp: 7220

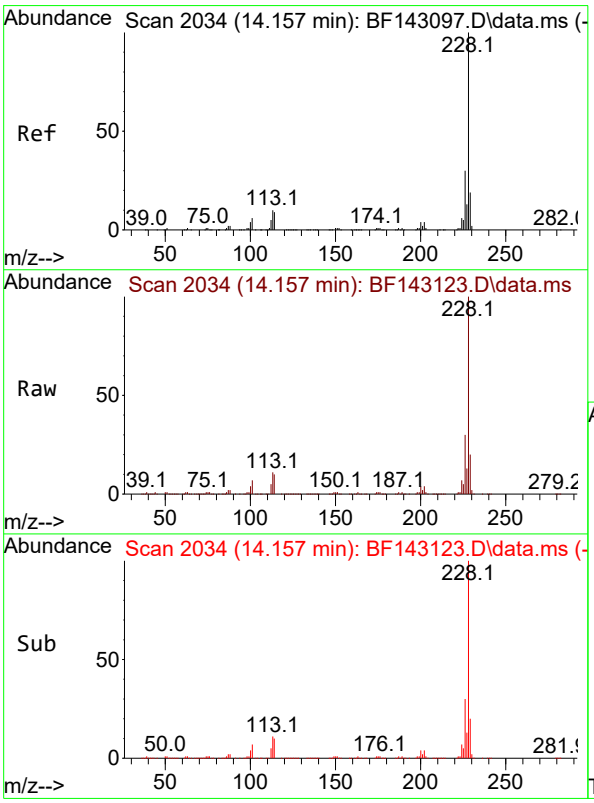
Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.5	77.3
126	12.4	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

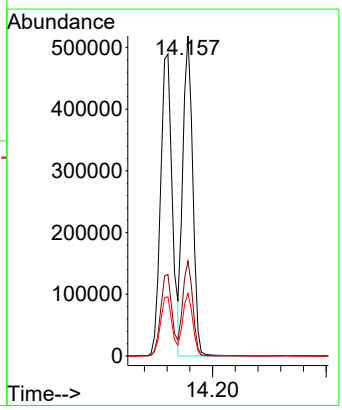
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

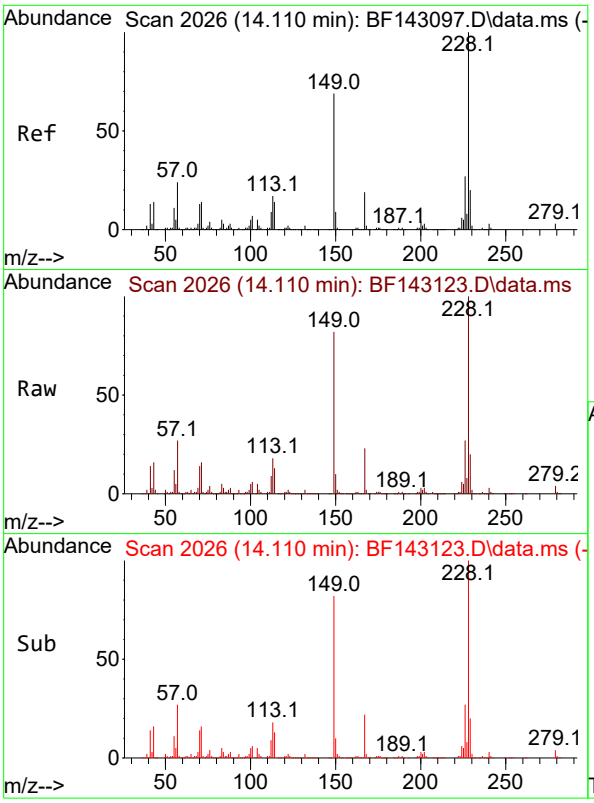


#83
Chrysene
Concen: 42.056 ng
RT: 14.157 min Scan# 2034
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:228 Resp: 626869

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.4	35.2
229	19.6	15.3	22.9





#84
Bis(2-ethylhexyl)phthalate
Concen: 50.248 ng
RT: 14.110 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

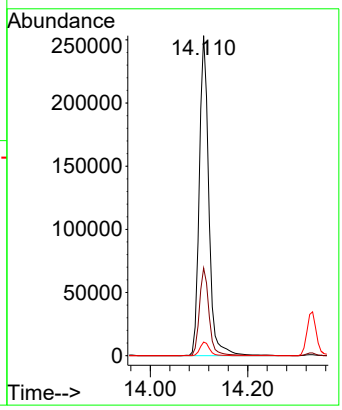
Tgt Ion:149 Resp: 34426

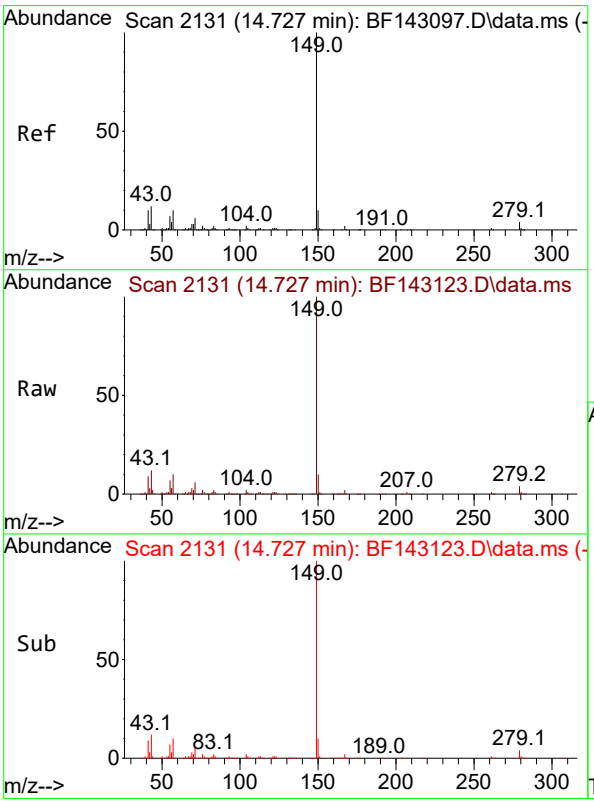
Ion	Ratio	Lower	Upper
149	100		
167	27.4	21.9	32.9
279	4.3	3.4	5.0

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

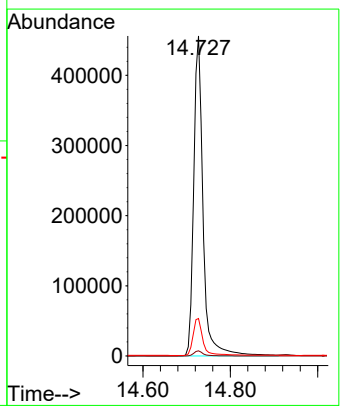


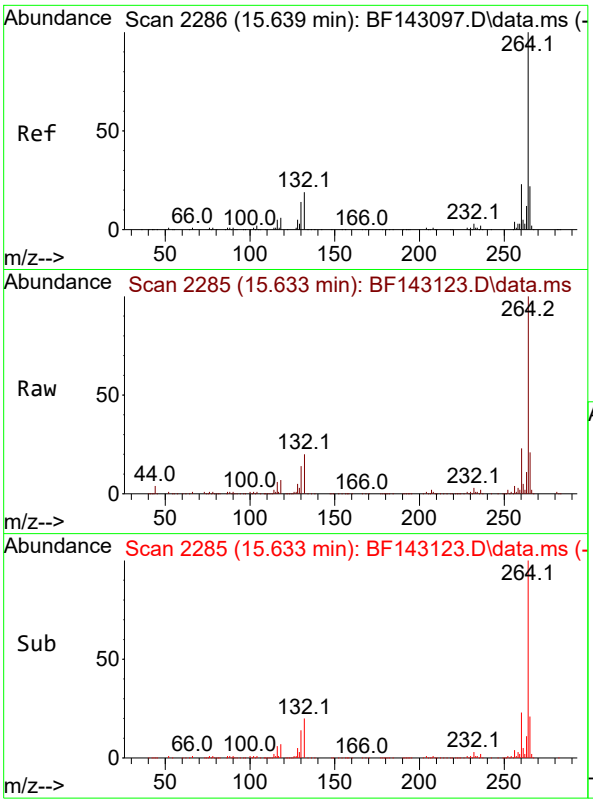


#85
Di-n-octyl phthalate
Concen: 52.034 ng
RT: 14.727 min Scan# 2131
Delta R.T. 0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:149 Resp: 680638

Ion	Ratio	Lower	Upper
149	100		
167	1.7	1.2	1.8
43	12.3	10.6	16.0

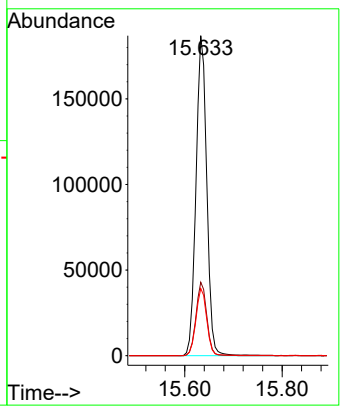




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.633 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:264 Resp: 28828

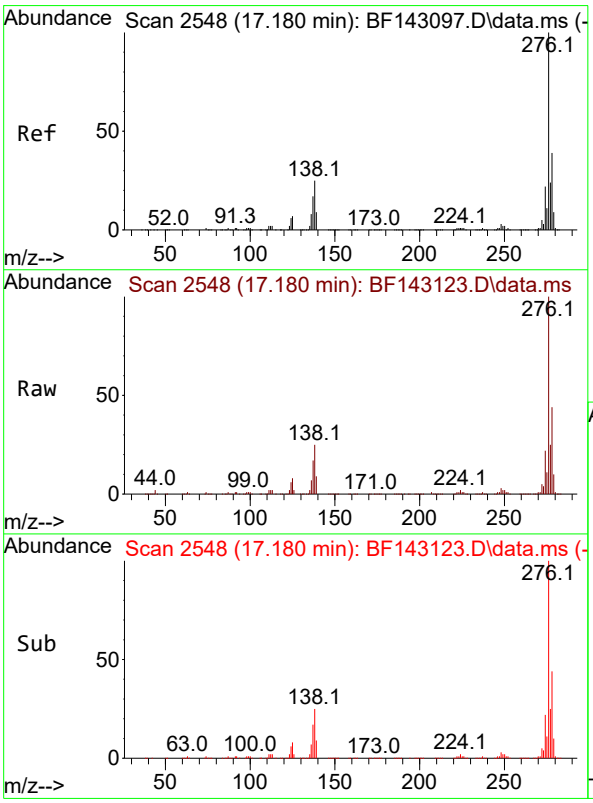
Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.5	27.7
265	21.0	17.5	26.3



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

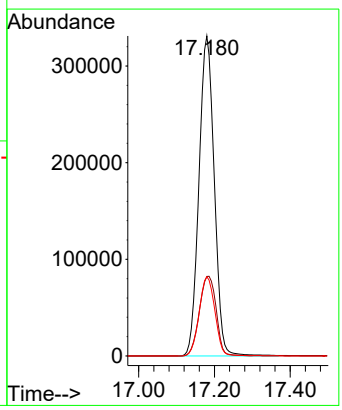
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

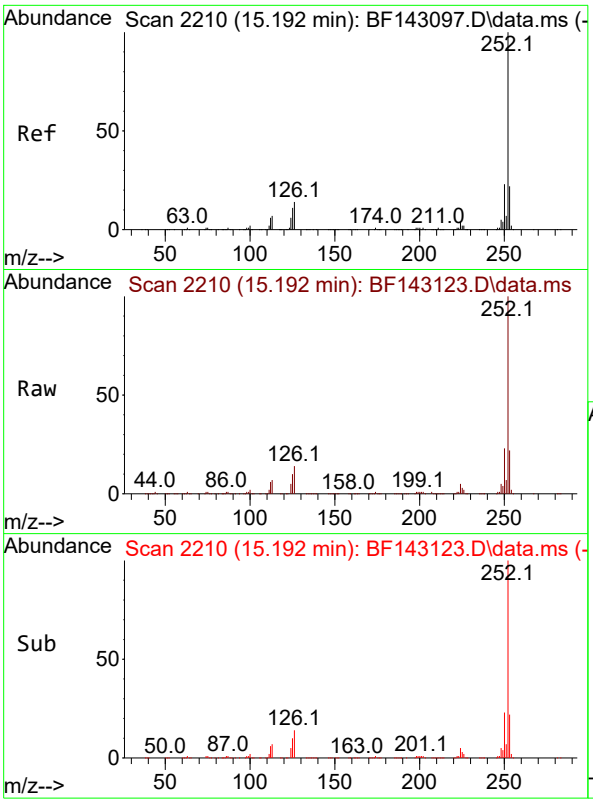


#87
Indeno(1,2,3-cd)pyrene
Concen: 43.324 ng
RT: 17.180 min Scan# 2548
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:276 Resp: 928932

Ion	Ratio	Lower	Upper
276	100		
138	27.3	22.6	34.0
277	25.4	20.2	30.2





#88
Benzo(b)fluoranthene
Concen: 42.554 ng
RT: 15.192 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

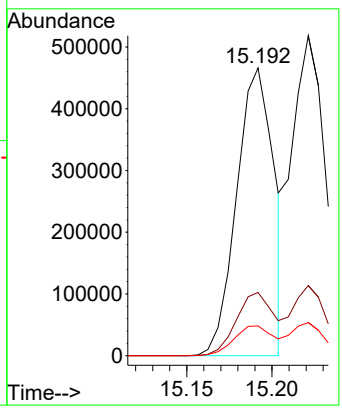
Tgt Ion:252 Resp: 70762

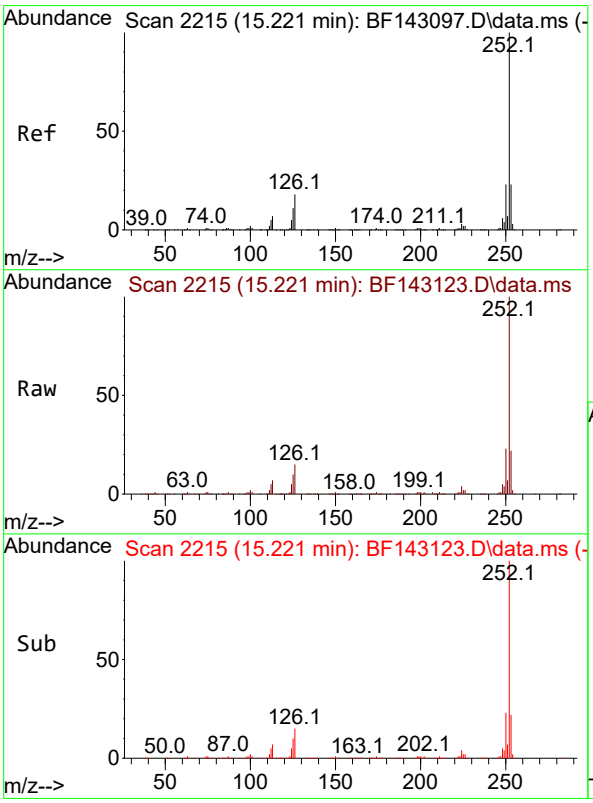
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	10.3	8.6	13.0

Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

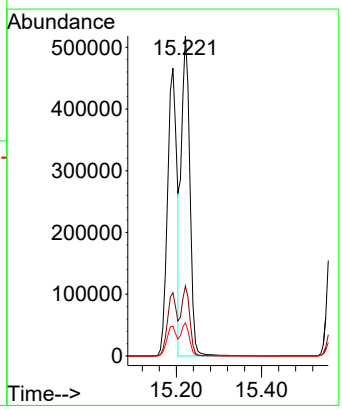


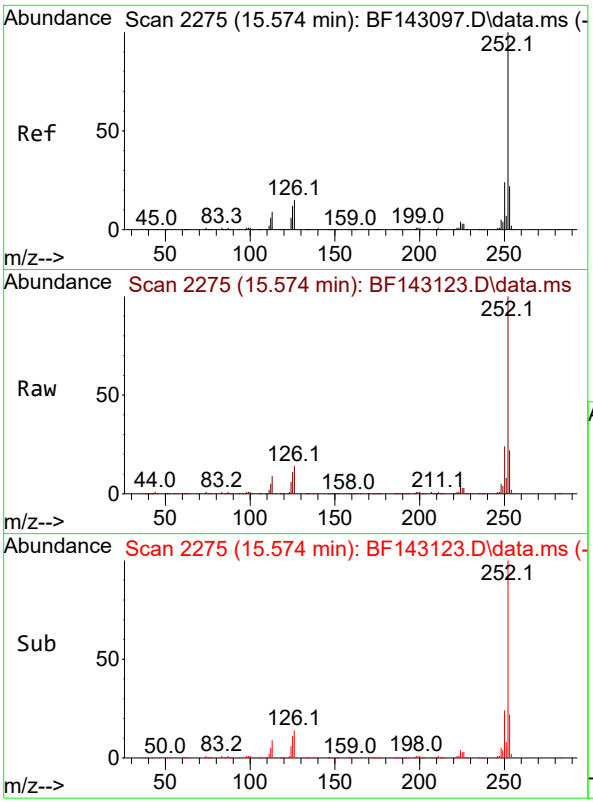


#89
Benzo(k)fluoranthene
Concen: 45.560 ng
RT: 15.221 min Scan# 2215
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:252 Resp: 722763

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	10.4	8.5	12.7

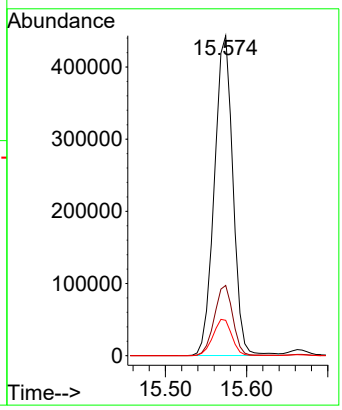




#90
Benzo(a)pyrene
Concen: 44.811 ng
RT: 15.574 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:252 Resp: 70475

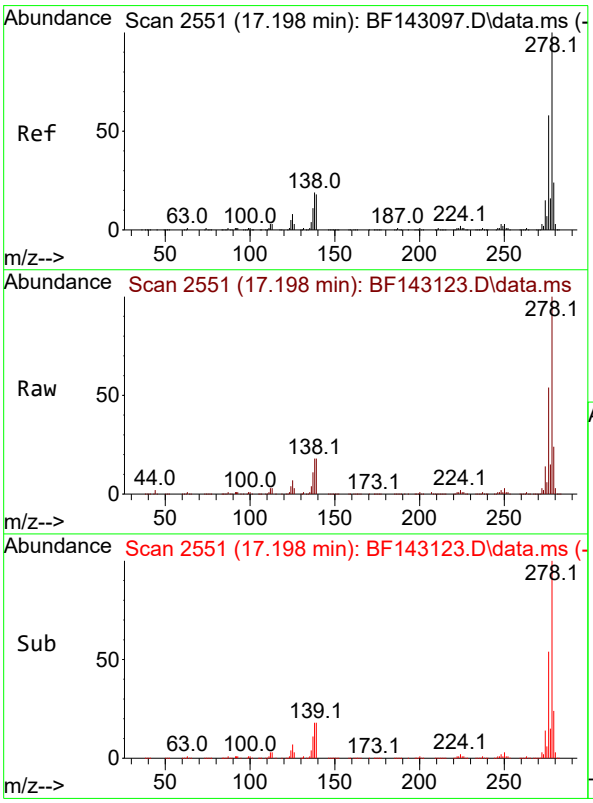
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.5	26.3
125	11.0	9.4	14.0



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

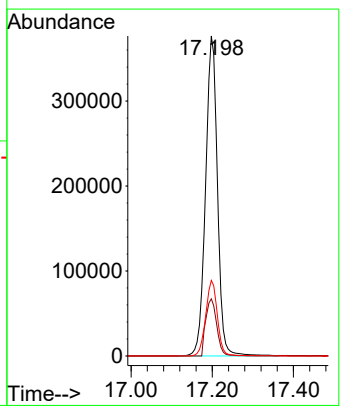
Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

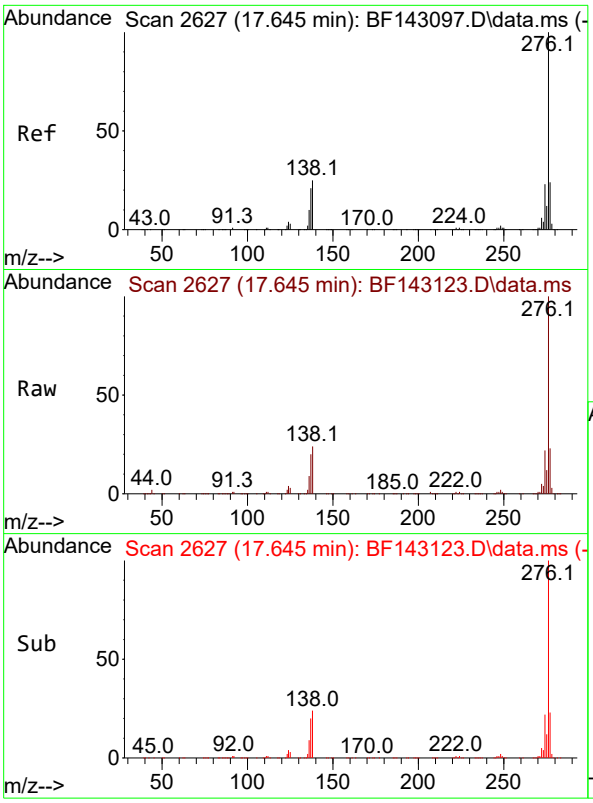


#91
Dibenzo(a,h)anthracene
Concen: 43.634 ng
RT: 17.198 min Scan# 2551
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:278 Resp: 764803

Ion	Ratio	Lower	Upper
278	100		
139	17.9	14.6	22.0
279	23.6	18.8	28.2

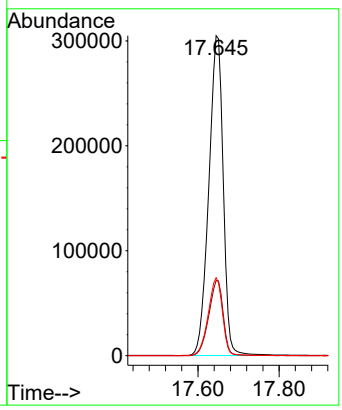




#92
Benzo(g,h,i)perylene
Concen: 41.795 ng
RT: 17.645 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF143123.D
Acq: 16 Jul 2025 22:38

Tgt Ion:276 Resp: 74687

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.2	28.8
138	24.3	19.8	29.6



Instrument :
BNA_F
ClientSampleId :
WC-SOIL-20250711MSD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 07/17/2025
Supervised By :Jagrut Upadhyay 07/17/2025

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

Manual Integration Report

Sequence:	BF071525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF143094.D	Nitrobenzene-d5	Rahul	7/16/2025 11:43:26 AM	Jagrut	7/16/2025 1:40:56 PM	Peak Integrated by Software
SSTDICC010	BF143095.D	Benzoic acid	Rahul	7/16/2025 11:43:28 AM	Jagrut	7/16/2025 1:40:58 PM	Peak Integrated by Software
SSTDICC010	BF143095.D	Nitrobenzene-d5	Rahul	7/16/2025 11:43:28 AM	Jagrut	7/16/2025 1:40:58 PM	Peak Integrated by Software
SSTDICC020	BF143096.D	Benzoic acid	Rahul	7/16/2025 11:43:30 AM	Jagrut	7/16/2025 1:41:01 PM	Peak Integrated by Software
SSTDICC020	BF143096.D	Nitrobenzene-d5	Rahul	7/16/2025 11:43:30 AM	Jagrut	7/16/2025 1:41:01 PM	Peak Integrated by Software
SSTDICC020	BF143096.D	Phenol	Rahul	7/16/2025 11:43:30 AM	Jagrut	7/16/2025 1:41:01 PM	Peak Integrated by Software
SSTDICCC040	BF143097.D	Benzoic acid	Rahul	7/16/2025 11:43:33 AM	Jagrut	7/16/2025 1:41:03 PM	Peak Integrated by Software
SSTDICCC040	BF143097.D	Nitrobenzene-d5	Rahul	7/16/2025 11:43:33 AM	Jagrut	7/16/2025 1:41:03 PM	Peak Integrated by Software
SSTDICCC040	BF143097.D	Phenol	Rahul	7/16/2025 11:43:33 AM	Jagrut	7/16/2025 1:41:03 PM	Peak Integrated by Software
SSTDICC050	BF143098.D	Phenol	Rahul	7/16/2025 11:43:36 AM	Jagrut	7/16/2025 1:41:06 PM	Peak Integrated by Software
SSTDICC060	BF143099.D	Benzoic acid	Rahul	7/16/2025 11:43:39 AM	Jagrut	7/16/2025 1:41:09 PM	Peak Integrated by Software
SSTDICC060	BF143099.D	Phenol	Rahul	7/16/2025 11:43:39 AM	Jagrut	7/16/2025 1:41:09 PM	Peak Integrated by Software
SSTDICC080	BF143100.D	Phenol	Rahul	7/16/2025 11:43:42 AM	Jagrut	7/16/2025 1:41:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF071525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICV040	BF143101.D	Benzoic acid	Rahul	7/16/2025 11:43:45 AM	Jagrut	7/16/2025 1:41:15 PM	Peak Integrated by Software
SSTDICV040	BF143101.D	Nitrobenzene-d5	Rahul	7/16/2025 11:43:45 AM	Jagrut	7/16/2025 1:41:15 PM	Peak Integrated by Software
SSTDICV040	BF143101.D	Phenol	Rahul	7/16/2025 11:43:45 AM	Jagrut	7/16/2025 1:41:15 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf071625	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF143115.D	Benzoic acid	Rahul	7/17/2025 10:01:35 AM	Jagrut	7/17/2025 11:19:12 AM	Peak Integrated by Software
Q2592-02MS	BF143122.D	Caprolactam	Rahul	7/17/2025 10:01:40 AM	Jagrut	7/17/2025 11:19:18 AM	Peak Integrated by Software
Q2592-02MSD	BF143123.D	Caprolactam	Rahul	7/17/2025 10:01:42 AM	Jagrut	7/17/2025 11:19:20 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BM070925	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BM050379.D	Benzaldehyde	Rahul	7/9/2025 9:47:39 AM	Jagrut	7/9/2025 2:15:18 PM	Peak Integrated by Software
SSTDICC020	BM050380.D	Benzaldehyde	Rahul	7/9/2025 9:47:42 AM	Jagrut	7/9/2025 2:15:21 PM	Peak Integrated by Software
SSTDICCC040	BM050381.D	Benzaldehyde	Rahul	7/9/2025 9:47:45 AM	Jagrut	7/9/2025 2:15:23 PM	Peak Integrated by Software
SSTDICC050	BM050382.D	Benzaldehyde	Rahul	7/9/2025 9:47:47 AM	Jagrut	7/9/2025 2:15:25 PM	Peak Integrated by Software
SSTDICV040	BM050385.D	Benzaldehyde	Rahul	7/9/2025 9:47:50 AM	Jagrut	7/9/2025 2:15:28 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BM071725	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM050474.D	Acenaphthene	Rahul	7/18/2025 11:02:25 AM	Jagrut	7/18/2025 1:29:29 PM	Peak Integrated by Software
PB168885BS	BM050476.D	Caprolactam	Rahul	7/18/2025 11:02:29 AM	Jagrut	7/18/2025 1:29:31 PM	Peak Integrated by Software

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071525

Review By	Rahul	Review On	7/16/2025 11:47:09 AM		
Supervise By	Jagrut	Supervise On	7/16/2025 1:41:28 PM		
SubDirectory	BF071525	HP Acquire Method	BNA_F	HP Processing Method	Bf071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143092.D	15 Jul 2025 12:35	RC/JU	Ok
2	SSTDICC2.5	BF143093.D	15 Jul 2025 13:04	RC/JU	Ok
3	SSTDICC005	BF143094.D	15 Jul 2025 13:35	RC/JU	Ok,M
4	SSTDICC010	BF143095.D	15 Jul 2025 14:05	RC/JU	Ok,M
5	SSTDICC020	BF143096.D	15 Jul 2025 14:36	RC/JU	Ok,M
6	SSTDICCC040	BF143097.D	15 Jul 2025 15:05	RC/JU	Ok,M
7	SSTDICC050	BF143098.D	15 Jul 2025 15:35	RC/JU	Ok,M
8	SSTDICC060	BF143099.D	15 Jul 2025 16:05	RC/JU	Ok,M
9	SSTDICC080	BF143100.D	15 Jul 2025 16:35	RC/JU	Ok,M
10	SSTDICV040	BF143101.D	15 Jul 2025 17:27	RC/JU	Ok,M
11	PB168737BL	BF143102.D	15 Jul 2025 17:57	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071625

Review By	Rahul	Review On	7/17/2025 11:19:37 AM				
Supervise By	Jagrut	Supervise On	7/17/2025 11:19:59 AM				
SubDirectory	BF071625	HP Acquire Method	BNA_F		HP Processing Method	Bf071525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143103.D	16 Jul 2025 09:06	RC/JU	Ok
2	SSTDCCC040	BF143104.D	16 Jul 2025 10:04	RC/JU	Ok
3	PB168787BL	BF143105.D	16 Jul 2025 10:34	RC/JU	Ok
4	Q2126-02	BF143106.D	16 Jul 2025 11:03	RC/JU	Ok
5	Q2126-02	BF143107.D	16 Jul 2025 11:37	RC/JU	Ok
6	Q2126-08	BF143108.D	16 Jul 2025 12:07	RC/JU	Ok
7	Q2126-08	BF143109.D	16 Jul 2025 12:36	RC/JU	Ok
8	Q2126-01	BF143110.D	16 Jul 2025 13:05	RC/JU	Ok
9	Q2126-01	BF143111.D	16 Jul 2025 13:35	RC/JU	Ok
10	Q2126-07	BF143112.D	16 Jul 2025 14:05	RC/JU	Ok
11	Q2126-07	BF143113.D	16 Jul 2025 14:35	RC/JU	Ok
12	PB168802BL	BF143114.D	16 Jul 2025 15:13	RC/JU	Ok
13	SSTDCCC040	BF143115.D	16 Jul 2025 15:45	RC/JU	Ok,M
14	DFTPP	BF143116.D	16 Jul 2025 19:09	RC/JU	Ok
15	SSTDCCC040	BF143117.D	16 Jul 2025 19:39	RC/JU	Ok
16	PB168854BL	BF143118.D	16 Jul 2025 20:09	RC/JU	Ok
17	PB168854BS	BF143119.D	16 Jul 2025 20:39	RC/JU	Ok,M
18	PB168847TB	BF143120.D	16 Jul 2025 21:09	RC/JU	Ok
19	Q2592-02	BF143121.D	16 Jul 2025 21:39	RC/JU	Ok
20	Q2592-02MS	BF143122.D	16 Jul 2025 22:09	RC/JU	Ok,M
21	Q2592-02MSD	BF143123.D	16 Jul 2025 22:38	RC/JU	Ok,M

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071625

Review By	Rahul	Review On	7/17/2025 11:19:37 AM				
Supervise By	Jagrut	Supervise On	7/17/2025 11:19:59 AM				
SubDirectory	BF071625	HP Acquire Method	BNA_F		HP Processing Method	Bf071525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q2600-02	BF143124.D	16 Jul 2025 23:08	RC/JU	Ok
23	Q2600-06	BF143125.D	16 Jul 2025 23:37	RC/JU	Ok
24	Q2600-10	BF143126.D	17 Jul 2025 00:07	RC/JU	Ok,M
25	Q2614-06	BF143127.D	17 Jul 2025 00:37	RC/JU	Ok
26	Q2605-03	BF143128.D	17 Jul 2025 01:05	RC/JU	Ok
27	Q2605-04	BF143129.D	17 Jul 2025 01:35	RC/JU	Ok
28	Q2571-05	BF143130.D	17 Jul 2025 02:04	RC/JU	Ok
29	Q2571-05MS	BF143131.D	17 Jul 2025 02:34	RC/JU	Ok
30	Q2571-05MSD	BF143132.D	17 Jul 2025 03:03	RC/JU	Ok
31	Q2555-01	BF143133.D	17 Jul 2025 03:32	RC/JU	Ok,M
32	Q2558-01	BF143134.D	17 Jul 2025 04:02	RC/JU	Ok,M
33	Q2555-03	BF143135.D	17 Jul 2025 04:31	RC/JU	Ok,M
34	Q2558-03	BF143136.D	17 Jul 2025 05:00	RC/JU	Ok,M
35	SSTDCCC040	BF143137.D	17 Jul 2025 05:30	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM070925

Review By	Rahul	Review On	7/9/2025 9:48:51 AM		
Supervise By	Jagrut	Supervise On	7/9/2025 2:15:39 PM		
SubDirectory	BM070925	HP Acquire Method	BNA_M	HP Processing Method	bm070925

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12673,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050376.D	08 Jul 2025 11:59	RC/JU	Ok
2	SSTDICC2.5	BM050377.D	08 Jul 2025 12:39	RC/JU	Ok
3	SSTDICC005	BM050378.D	08 Jul 2025 13:19	RC/JU	Ok
4	SSTDICC010	BM050379.D	08 Jul 2025 14:00	RC/JU	Ok,M
5	SSTDICC020	BM050380.D	08 Jul 2025 14:40	RC/JU	Ok,M
6	SSTDICCC040	BM050381.D	08 Jul 2025 15:20	RC/JU	Ok,M
7	SSTDICC050	BM050382.D	08 Jul 2025 16:01	RC/JU	Ok,M
8	SSTDICC060	BM050383.D	08 Jul 2025 16:41	RC/JU	Ok
9	SSTDICC080	BM050384.D	08 Jul 2025 17:22	RC/JU	Ok
10	SSTDICV040	BM050385.D	08 Jul 2025 18:05	RC/JU	Ok,M
11	PB168722BL	BM050386.D	08 Jul 2025 19:26	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM071725

Review By	Rahul	Review On	7/18/2025 11:07:03 AM				
Supervise By	Jagrut	Supervise On	7/18/2025 1:29:43 PM				
SubDirectory	BM071725	HP Acquire Method	BNA_M		HP Processing Method	bm070925	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050473.D	17 Jul 2025 13:02	RC/JU	Ok
2	SSTDCCC040	BM050474.D	17 Jul 2025 13:42	RC/JU	Ok,M
3	PB168885BL	BM050475.D	17 Jul 2025 14:57	RC/JU	Ok
4	PB168885BS	BM050476.D	17 Jul 2025 15:57	RC/JU	Ok,M
5	Q2605-01	BM050477.D	17 Jul 2025 16:37	RC/JU	Ok,M
6	Q2605-02	BM050478.D	17 Jul 2025 17:17	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071525

Review By	Rahul	Review On	7/16/2025 11:47:09 AM		
Supervise By	Jagrut	Supervise On	7/16/2025 1:41:28 PM		
SubDirectory	BF071525	HP Acquire Method	BNA_F	HP Processing Method	Bf071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143092.D	15 Jul 2025 12:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF143093.D	15 Jul 2025 13:04		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF143094.D	15 Jul 2025 13:35		RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF143095.D	15 Jul 2025 14:05		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF143096.D	15 Jul 2025 14:36	Compound#26,32,48,51,57,80,84,85 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF143097.D	15 Jul 2025 15:05	Compound#54,65 Kept on QR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF143098.D	15 Jul 2025 15:35		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF143099.D	15 Jul 2025 16:05		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF143100.D	15 Jul 2025 16:35		RC/JU	Ok,M
10	SSTDICV040	ICVBF071525	BF143101.D	15 Jul 2025 17:27		RC/JU	Ok,M
11	PB168737BL	PB168737BL	BF143102.D	15 Jul 2025 17:57		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071625

Review By	Rahul	Review On	7/17/2025 11:19:37 AM		
Supervise By	Jagrut	Supervise On	7/17/2025 11:19:59 AM		
SubDirectory	BF071625	HP Acquire Method	BNA_F	HP Processing Method	Bf071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143103.D	16 Jul 2025 09:06		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF143104.D	16 Jul 2025 10:04		RC/JU	Ok
3	PB168787BL	PB168787BL	BF143105.D	16 Jul 2025 10:34		RC/JU	Ok
4	Q2126-02	LOQ-SOIL-02-QT2-202	BF143106.D	16 Jul 2025 11:03	LOQ-SOIL-5 PPM	RC/JU	Ok
5	Q2126-02	LOQ-SOIL-02-QT2-202	BF143107.D	16 Jul 2025 11:37	LOQ-SOIL-10 PPM	RC/JU	Ok
6	Q2126-08	LOQ-WATER-02-QT2-2	BF143108.D	16 Jul 2025 12:07	LOQ-WATER-5 PPM	RC/JU	Ok
7	Q2126-08	LOQ-WATER-02-QT2-2	BF143109.D	16 Jul 2025 12:36	LOQ-WATER-10 PPM	RC/JU	Ok
8	Q2126-01	LOD-MDL-SOIL-03-QT	BF143110.D	16 Jul 2025 13:05	LOD-MDL-SOIL-4 PPM	RC/JU	Ok
9	Q2126-01	LOD-MDL-SOIL-03-QT	BF143111.D	16 Jul 2025 13:35	LOD-MDL-SOIL-8 PPM	RC/JU	Ok
10	Q2126-07	LOD-MDL-WATER-01-(	BF143112.D	16 Jul 2025 14:05	LOD-MDL-WATER-4 PPM	RC/JU	Ok
11	Q2126-07	LOD-MDL-WATER-01-(	BF143113.D	16 Jul 2025 14:35	LOD-MDL-WATER-8 PPM	RC/JU	Ok
12	PB168802BL	PB168802BL	BF143114.D	16 Jul 2025 15:13		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040EC	BF143115.D	16 Jul 2025 15:45		RC/JU	Ok,M
14	DFTPP	DFTPP	BF143116.D	16 Jul 2025 19:09		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF143117.D	16 Jul 2025 19:39		RC/JU	Ok
16	PB168854BL	PB168854BL	BF143118.D	16 Jul 2025 20:09		RC/JU	Ok
17	PB168854BS	PB168854BS	BF143119.D	16 Jul 2025 20:39		RC/JU	Ok,M
18	PB168847TB	PB168847TB	BF143120.D	16 Jul 2025 21:09		RC/JU	Ok

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF071625

Review By	Rahul	Review On	7/17/2025 11:19:37 AM		
Supervise By	Jagrut	Supervise On	7/17/2025 11:19:59 AM		
SubDirectory	BF071625	HP Acquire Method	BNA_F	HP Processing Method	Bf071525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q2592-02	WC-SOIL-20250711	BF143121.D	16 Jul 2025 21:39		RC/JU	Ok
20	Q2592-02MS	WC-SOIL-20250711MS	BF143122.D	16 Jul 2025 22:09		RC/JU	Ok,M
21	Q2592-02MSD	WC-SOIL-20250711MS	BF143123.D	16 Jul 2025 22:38		RC/JU	Ok,M
22	Q2600-02	TRENCH	BF143124.D	16 Jul 2025 23:08		RC/JU	Ok
23	Q2600-06	STOCK-PILE	BF143125.D	16 Jul 2025 23:37		RC/JU	Ok
24	Q2600-10	END-OF-TRENCH	BF143126.D	17 Jul 2025 00:07		RC/JU	Ok,M
25	Q2614-06	HR-MCN-COMP-01	BF143127.D	17 Jul 2025 00:37		RC/JU	Ok
26	Q2605-03	VB15061	BF143128.D	17 Jul 2025 01:05		RC/JU	Ok
27	Q2605-04	V897	BF143129.D	17 Jul 2025 01:35		RC/JU	Ok
28	Q2571-05	TP-17	BF143130.D	17 Jul 2025 02:04		RC/JU	Ok
29	Q2571-05MS	TP-17MS	BF143131.D	17 Jul 2025 02:34		RC/JU	Ok
30	Q2571-05MSD	TP-17MSD	BF143132.D	17 Jul 2025 03:03		RC/JU	Ok
31	Q2555-01	OU4-TS-29-070925	BF143133.D	17 Jul 2025 03:32		RC/JU	Ok,M
32	Q2558-01	OU4-TS-Denali-070925	BF143134.D	17 Jul 2025 04:02		RC/JU	Ok,M
33	Q2555-03	OU4-TS-30-070925	BF143135.D	17 Jul 2025 04:31		RC/JU	Ok,M
34	Q2558-03	OU4-TS-Grillo-OG-070	BF143136.D	17 Jul 2025 05:00		RC/JU	Ok,M
35	SSTDCCC040	SSTDCCC040EC	BF143137.D	17 Jul 2025 05:30		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM070925

Review By	Rahul	Review On	7/9/2025 9:48:51 AM		
Supervise By	Jagrut	Supervise On	7/9/2025 2:15:39 PM		
SubDirectory	BM070925	HP Acquire Method	BNA_M	HP Processing Method	bm070925

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12673,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050376.D	08 Jul 2025 11:59		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM050377.D	08 Jul 2025 12:39		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM050378.D	08 Jul 2025 13:19		RC/JU	Ok
4	SSTDICC010	SSTDICC010	BM050379.D	08 Jul 2025 14:00		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM050380.D	08 Jul 2025 14:40		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM050381.D	08 Jul 2025 15:20	Compound#32,54,57,62,65 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BM050382.D	08 Jul 2025 16:01		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BM050383.D	08 Jul 2025 16:41		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BM050384.D	08 Jul 2025 17:22	Compound#09 removed from 80 ppm	RC/JU	Ok
10	SSTDICV040	ICVBM070925	BM050385.D	08 Jul 2025 18:05	Comp#77 Failed from High side	RC/JU	Ok,M
11	PB168722BL	PB168722BL	BM050386.D	08 Jul 2025 19:26		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM071725

Review By	Rahul	Review On	7/18/2025 11:07:03 AM		
Supervise By	Jagrut	Supervise On	7/18/2025 1:29:43 PM		
SubDirectory	BM071725	HP Acquire Method	BNA_M	HP Processing Method	bm070925

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840
CCC	SP6836
Internal Standard/PEM	S12674,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050473.D	17 Jul 2025 13:02		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM050474.D	17 Jul 2025 13:42		RC/JU	Ok,M
3	PB168885BL	PB168885BL	BM050475.D	17 Jul 2025 14:57		RC/JU	Ok
4	PB168885BS	PB168885BS	BM050476.D	17 Jul 2025 15:57		RC/JU	Ok,M
5	Q2605-01	V908	BM050477.D	17 Jul 2025 16:37		RC/JU	Ok,M
6	Q2605-02	VB16135	BM050478.D	17 Jul 2025 17:17		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168847

SOP ID : M1311-TCLP-16

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-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 07/15/2025 **Time :** 15:30

End Prep Date : 07/16/2025 **Time :** 08:15

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 18

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JP

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
TCLP-FLUID-1	N/A	WP112804
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

MATRIX SPIKES are added after fiftration and before preservation. TUMBLER T-1 / T-2 checked,30 rpm. Particle size reduction is not required. Q2614-06 IS USED FOR MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/16/25 10:00	JP Tech Room	SLG. RJ / T.T.
	Preparation Group	Analysis Group INST. MS

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168847

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
PB168847TB	LEB847	12	N/A	2000	N/A	N/A	N/A	4.95	1.5	T-2
Q2592-02	WC-SOIL-20250711	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2600-02	TRENCH	02	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2600-06	STOCK-PILE	03	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2600-10	END-OF-TRENCH	04	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2605-01	V908	05	100.02	2000	N/A	N/A	N/A	6.6	1.5	T-1
Q2605-02	VB16135	06	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q2605-03	VB15061	07	100.03	2000	N/A	N/A	N/A	6.6	1.5	T-1
Q2605-04	V897	08	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q2609-02	710-ABC	09	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2609-06	709-AB	10	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q2614-06	HR-MCN-COMP-01	11	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168847TB	LEB847	N/A	N/A	N/A	N/A	N/A	N/A
Q2592-02	WC-SOIL-20250711	N/A	N/A	N/A	N/A	100	N/A
Q2600-02	TRENCH	N/A	N/A	N/A	N/A	100	N/A
Q2600-06	STOCK-PILE	N/A	N/A	N/A	N/A	100	N/A
Q2600-10	END-OF-TRENCH	N/A	N/A	N/A	N/A	100	N/A
Q2605-01	V908	N/A	N/A	N/A	N/A	100	N/A
Q2605-02	VB16135	N/A	N/A	N/A	N/A	100	N/A
Q2605-03	VB15061	N/A	N/A	N/A	N/A	100	N/A
Q2605-04	V897	N/A	N/A	N/A	N/A	100	N/A
Q2609-02	710-ABC	N/A	N/A	N/A	N/A	100	N/A
Q2609-06	709-AB	N/A	N/A	N/A	N/A	100	N/A
Q2614-06	HR-MCN-COMP-01	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB168847

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
PB168847TB	LEB847	N/A	N/A	N/A	N/A	#1	4.95
Q2592-02	WC-SOIL-20250711	5.02	96.5	7.0	2.5	#1	4.95
Q2600-02	TRENCH	5.01	96.5	7.6	2.5	#1	4.95
Q2600-06	STOCK-PILE	5.02	96.5	7.6	2.5	#1	4.95
Q2600-10	END-OF-TRENCH	5.03	96.5	7.2	2.0	#1	4.95
Q2605-01	V908	5.02	96.5	8.6	3.5	#1	4.95
Q2605-02	VB16135	5.03	96.5	9.0	4.0	#1	4.95
Q2605-03	VB15061	5.03	96.5	9.0	4.0	#1	4.95
Q2605-04	V897	5.02	96.5	9.3	4.5	#1	4.95
Q2609-02	710-ABC	5.03	96.5	7.2	3.0	#1	4.95
Q2609-06	709-AB	5.02	96.5	6.2	2.5	#1	4.95
Q2614-06	HR-MCN-COMP-01	5.01	96.5	7.6	2.5	#1	4.95

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q2600 **WorkList ID :** 190734 **Department :** TCLP Extraction **Date :** 07-15-2025 11:56:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2592-02	WC-SOIL-20250711	Solid	TCLP Extraction	Cool 4 deg C	PARS02	D51	07/11/2025	1311
Q2600-02	TRENCH	Solid	TCLP Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311
Q2600-06	STOCK-PILE	Solid	TCLP Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311
Q2600-10	END-OF-TRENCH	Solid	TCLP Extraction	Cool 4 deg C	TACO01	D41	07/14/2025	1311
Q2605-01	V908	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2605-02	VB16135	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2605-03	VB15061	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2605-04	V897	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2609-02	710-ABC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2609-06	709-ABC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311
Q2614-06	HR-MCN-COMP-01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	D41	07/15/2025	1311

Date/Time 07.15.25 15:20
Raw Sample Received by:
Raw Sample Relinquished by: SM

Date/Time 07.15.25 17:30
Raw Sample Received by: SM
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168885

SOP ID:	M3510C,3580A-Extraction SVOC-21				
Clean Up SOP #:	N/A			**Extraction Start Date :**	07/16/2025
Matrix :	Water			**Extraction Start Time :**	10:14
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	07/16/2025
Balance check:	N/A	**Filter By:**	RJ	**Extraction End Time :**	15:15
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,5,6,7	**Supervisor By :**	RUPESH

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	SP6849
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	E3954
Baked Na2SO4	N/A	EP2625
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted to < 2 with 1:1 H2SO4 & >12 with 10N NaOH , 1.5ML Vial Lot # 2210443.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
7/16/25	RS (GC4-Lab)	RC/SVOC
15:20	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168885

Analytical Method: M3510C,3580A-Extraction SVOC-21 **Concentration Date:** 07/16/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168847TB	PB168847TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-1
PB168885BL	PB168885BL	TCLP BNA	1000	6	RUPESH	ritesh	1			2
PB168885BS	PB168885BS	TCLP BNA	1000	6	RUPESH	ritesh	1			3
Q2592-02	WC-SOIL-20250711	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q2592-02MS	WC-SOIL-20250711MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q2592-02MSD	WC-SOIL-20250711MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q2600-02	TRENCH	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q2600-06	STOCK-PILE	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q2600-10	END-OF-TRENCH	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q2605-01	V908	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q2605-02	VB16135	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q2605-03	VB15061	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q2605-04	V897	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q2614-06	HR-MCN-COMP-01	TCLP BNA	100	6	RUPESH	ritesh	1	A		14

RS 7/16

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168847

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
PB168847TB	LEB847	12	N/A	2000	N/A	N/A	N/A	4.95	1.5	T-2
Q2592-02	WC-SOIL-20250711	01	100.02	2000	N/A	N/A	N/A	4.0	1.0	T-1
Q2600-02	TRENCH	02	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2600-06	STOCK-PILE	03	100.02	2000	N/A	N/A	N/A	5.6	1.0	T-1
Q2600-10	END-OF-TRENCH	04	100.03	2000	N/A	N/A	N/A	5.5	1.0	T-1
Q2605-01	V908	05	100.02	2000	N/A	N/A	N/A	6.6	1.5	T-1
Q2605-02	VB16135	06	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q2605-03	VB15061	07	100.03	2000	N/A	N/A	N/A	6.6	1.5	T-1
Q2605-04	V897	08	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q2609-02	710-ABC	09	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-1
Q2609-06	709-AB	10	100.02	2000	N/A	N/A	N/A	5.0	1.0	T-1
Q2614-06	HR-MCN-COMP-01	11	100.03	2000	N/A	N/A	N/A	5.6	1.5	T-2

07/16/25
10:00

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

Prep Standard - Chemical Standard Summary

Order ID : Q2592

Test : TCLP BNA

Prepbatch ID : PB168885,

Sequence ID/Qc Batch ID: BF071625,BM071725,

Standard ID :
EP2609,EP2610,EP2625,SP6754,SP6757,SP6769,SP6770,SP6832,SP6833,SP6834,SP6835,SP6836,SP6837,SP6838,SP6839,SP6840,SP6849,

Chemical ID :
10ul/1000ul sample,E3551,E3657,E3902,E3904,E3926,E3932,E3942,E3954,M6157,S10105,S11484,S11496,S11651,S11788,S11801,S11802,S11805,S11806,S11807,S12115,S12190,S12191,S12192,S12193,S12194,S12195,S12209,S12210,S12211,S12212,S12213,S12214,S12215,S12216,S12272,S12277,S12278,S12486,S12499,S12500,S12501,S12502,S12503,S12504,S12505,S12506,S12507,S12534,S12545,S12546,S12547,S12548,S12549,S12550,S12551,S12552,S12577,S12658,S12670,S12674,S12974,S12987,S12988,S12989,S12990,S12991,S12992,S13057,S13078,S13088,S13089,S13148,S13158,S13159,S13206,S13208,S13209,S13210,S13211,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	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

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	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

FROM 1000.00000ml of M6157 + 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	EP2625	07/15/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 07/15/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
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

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)	SP6769	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.04000ml of S12195 + 0.08000ml of S12216 + 0.10000ml of S11788 + 0.20000ml of S12486 + 0.20000ml of S12534 + 0.20000ml of S12974 + 1.18000ml of E3926 = 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	SP6770	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.01000ml of S12658 + 0.60000ml of E3926 + 0.40000ml of SP6769 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4178	8270/625.1 Stock Solution-2 100 ng	SP6832	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.20000ml of S13211 + 0.26700ml of S10105 + 0.40000ml of S11496 + 0.40000ml of S12278 + 0.50000ml of S12115 + 0.50000ml of S13209 + 0.50000ml of S13210 + 0.60000ml of S12277 + 1.00000ml of S12272 + 1.00000ml of S13057 + 1.00000ml of S13078 + 1.00000ml of S13208 + 2.63300ml of E3942 = 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
4179	80 ng BNA ICC	SP6833	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.20000ml of E3942 + 0.80000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4180	60 ng BNA ICC	SP6834	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.40000ml of E3942 + 0.60000ml of SP6832 = 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
4181	50 ng BNA ICC	SP6835	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.50000ml of E3942 + 0.50000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4182	40 ng BNA ICC	SP6836	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.60000ml of E3942 + 0.40000ml of SP6832 = 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
4183	20 ng BNA ICC	SP6837	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.80000ml of E3942 + 0.20000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4184	10 ng BNA ICC	SP6838	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.90000ml of E3942 + 0.10000ml of SP6832 = 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
4185	5 ng BNA ICC	SP6839	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.95000ml of E3942 + 0.05000ml of SP6832 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4186	2.5 ng BNA ICC	SP6840	06/19/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli 07/21/2025

FROM 0.01000ml of S12670 + 0.50000ml of E3942 + 0.50000ml of SP6839 = 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	SP6849	07/01/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 07/01/2025

FROM 0.10000ml of S12507 + 0.10000ml of S13159 + 0.30000ml of S13158 + 0.40000ml of S11484 + 0.40000ml of S11651 + 0.40000ml of S11806 + 0.40000ml of S11807 + 0.40000ml of S13148 + 0.40000ml of S13206 + 0.60000ml of S13089 + 0.80000ml of S12499 + 0.90000ml of S12552 + 1.20000ml of S12504 + 1.20000ml of S12506 + 1.20000ml of S12546 + 1.30000ml of S11802 + 1.30000ml of S12501 + 1.30000ml of S12503 + 1.30000ml of S12505 + 1.30000ml of S12545 + 1.30000ml of S12547 + 1.30000ml of S12549 + 1.30000ml of S12550 + 1.30000ml of S12551 + 1.30000ml of S12988 + 1.30000ml of S12989 + 1.30000ml of S12990 + 1.30000ml of S12992 + 1.40000ml of S11805 + 1.40000ml of S12500 + 1.40000ml of S12502 + 1.40000ml of S12548 + 1.40000ml of S12987 + 1.40000ml of S12991 + 1.40000ml of S13088 + 1.50000ml of S11801 + 163.00000ml of E3932 = Final Quantity: 200.000 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	12/04/2025	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

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)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

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)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

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	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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	10/30/2025	04/30/2025 / Rahul	08/10/2023 / yogesh	S11484

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	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/01/2026	07/01/2025 / Rahul	11/09/2023 / Yogesh	S11651

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 #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11801

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11802

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11805

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	A0200655	12/04/2025	06/04/2025 / Jagrut	11/21/2023 / rahul	S11806

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	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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

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	S12194

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	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	12/03/2025	06/03/2025 / Jagrut	05/24/2024 / Rahul	S12272

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	11/05/2025	05/05/2025 / Jagrut	05/24/2024 / Rahul	S12277

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-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	12/19/2025	06/19/2025 / Jagrut	05/24/2024 / Rahul	S12278

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	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12499

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12500

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12501

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12502

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12503

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12504

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12505

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12506

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12507

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	10/10/2025	04/10/2025 / Jagrut	07/23/2024 / RAHUL	S12534

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	12/04/2025	06/04/2025 / Jagrut	07/23/2024 / RAHUL	S12545

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12546

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12547

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12548

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12549

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12550

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12551

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

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	04/30/2030	04/07/2025 / anahy	09/20/2024 / anahy	S12658

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	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

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	01/15/2026	07/15/2025 / Rahul	09/20/2024 / anahy	S12674

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	S12974

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12987

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12988

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12989

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12990

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12991

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	09/30/2025	07/01/2025 / Rahul	12/11/2024 / anahy	S12992

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)	531243	12/19/2025	06/19/2025 / Jagrut	01/16/2025 / anahy	S13057

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)	525551	11/05/2025	05/05/2025 / Jagrut	03/10/2025 / anahy	S13078

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]	A0221014	11/30/2025	07/01/2025 / Rahul	05/20/2025 / Rahul	S13088

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]	A0221014	11/30/2025	07/01/2025 / Rahul	05/20/2025 / Rahul	S13089

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]	A0201702	12/03/2025	06/03/2025 / Jagrut	11/13/2023 / Rahul	S13148

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	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0226283	12/04/2025	06/04/2025 / Jagrut	06/04/2025 / Rahul	S13158

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]	A0226283	01/01/2026	07/01/2025 / Rahul	06/04/2025 / Rahul	S13159

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]	A0226493	01/01/2026	07/01/2025 / Rahul	06/11/2025 / anahy	S13206

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	70434 / Acetophenone, Single compound solution, 1000 PPM	121622	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91126 / Benzoic acid 2000 ug/mL	060625	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13209

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	90495 / 1,1-Biphenyl 2000 ug/mL	042325	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13210

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 #
Absolute Standards, Inc.	34571 / 1,2,4,5-Tetrachlorobenzene 5000 ug/mL	092324	12/19/2025	06/19/2025 / Rahul	06/19/2025 / Rahul	S13211

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-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.

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

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

Page 1 of 1

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

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 3926

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
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	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

RS 7/14/25

E3954

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M615 MB

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO2)	<= 2 ppm	<2 ppm
Ammonium (NH_4)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO_3)	<= 0.2 ppm	0.1 ppm
Phosphate (PO_4)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

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

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. : 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

511484 ↓ 511493 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.)

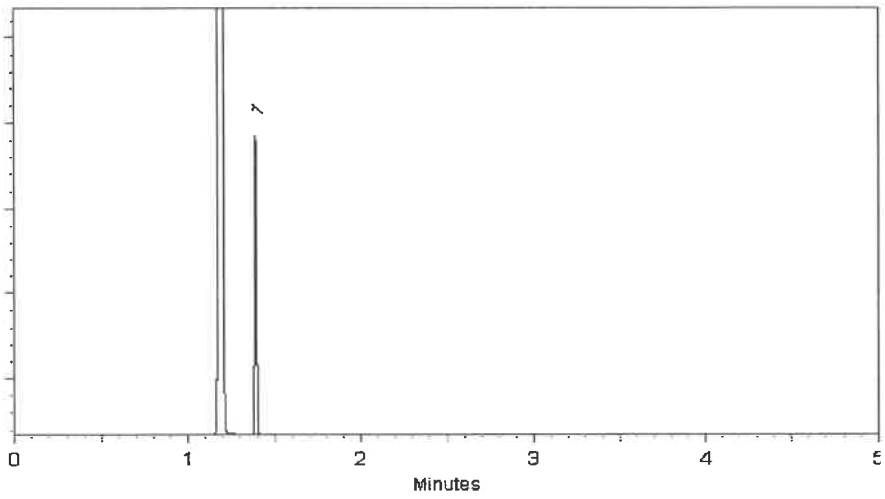
Inj. Temp:
250°C

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

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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

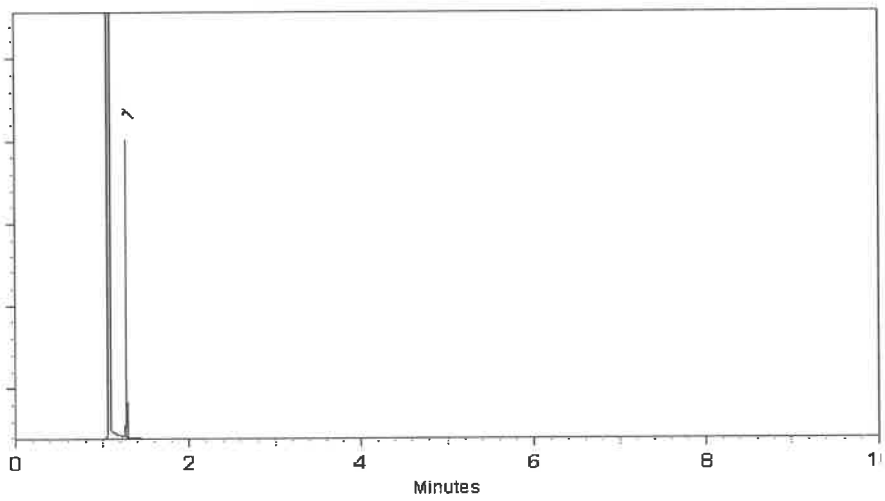
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

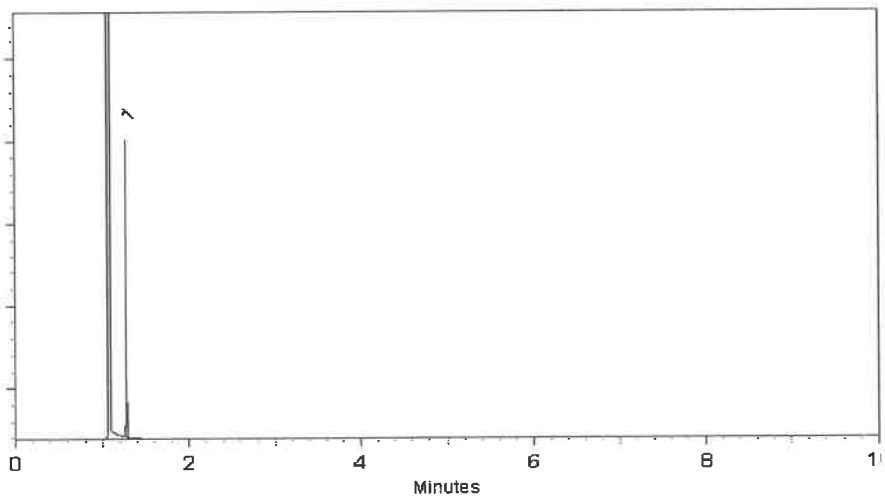
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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

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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

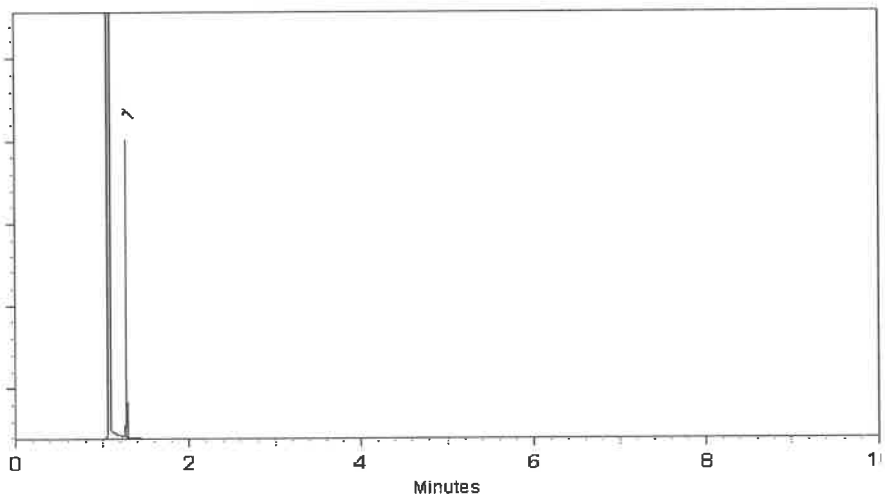
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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

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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

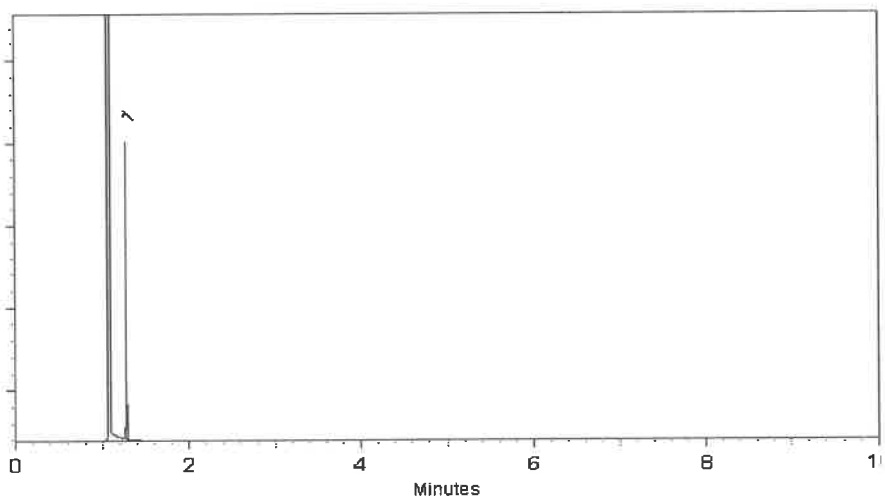
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

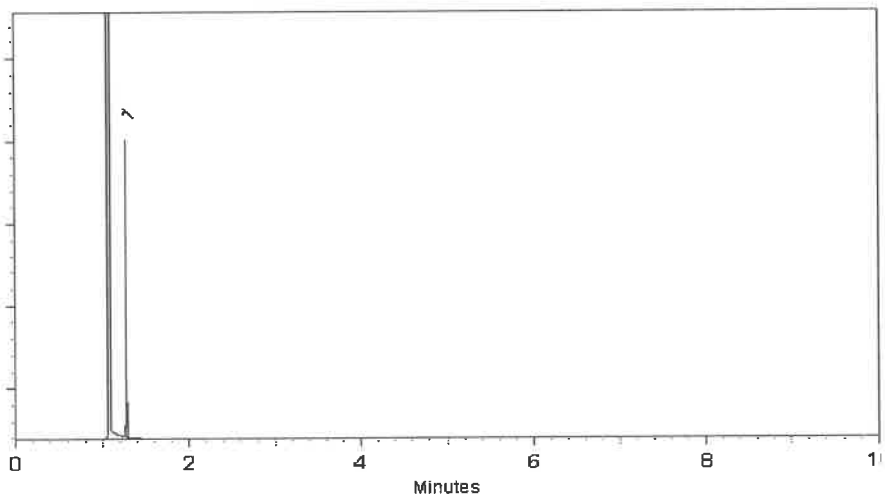
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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. : 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.)

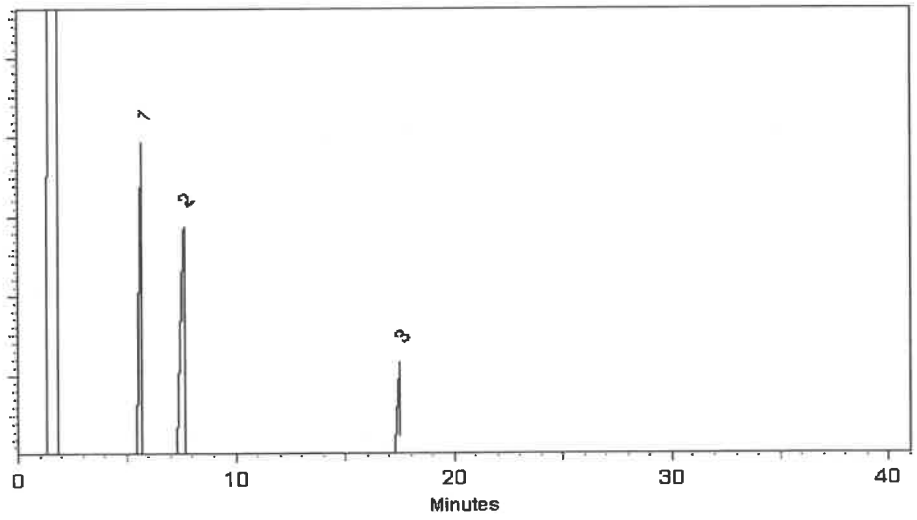
Inj. Temp:
250°C

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.)

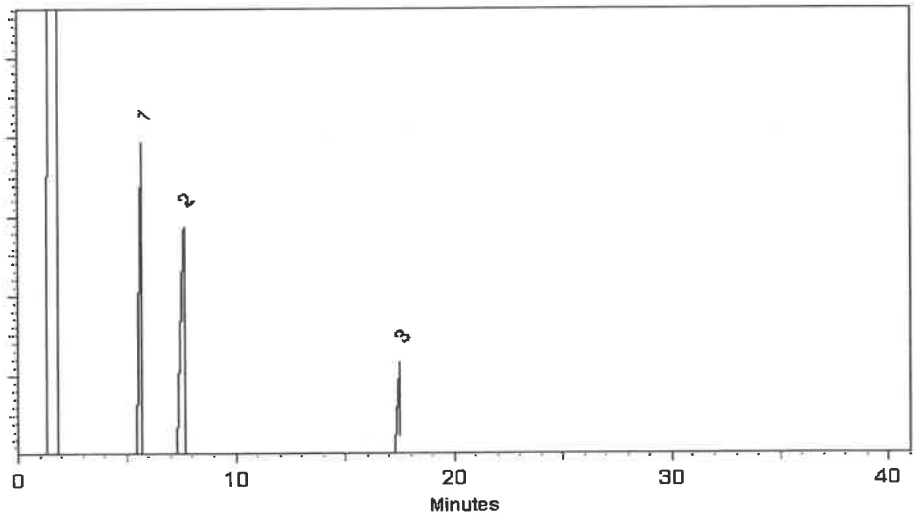
Inj. Temp:
250°C

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. : 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.)

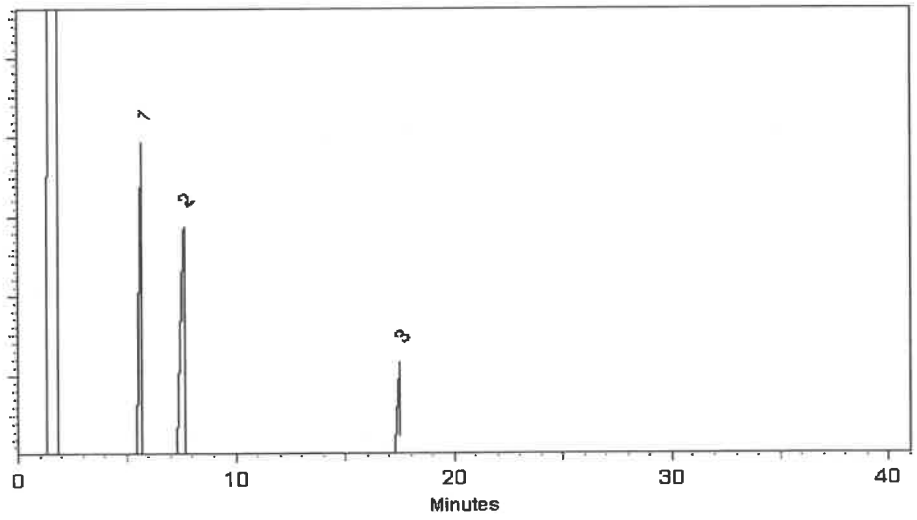
Inj. Temp:
250°C

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.)

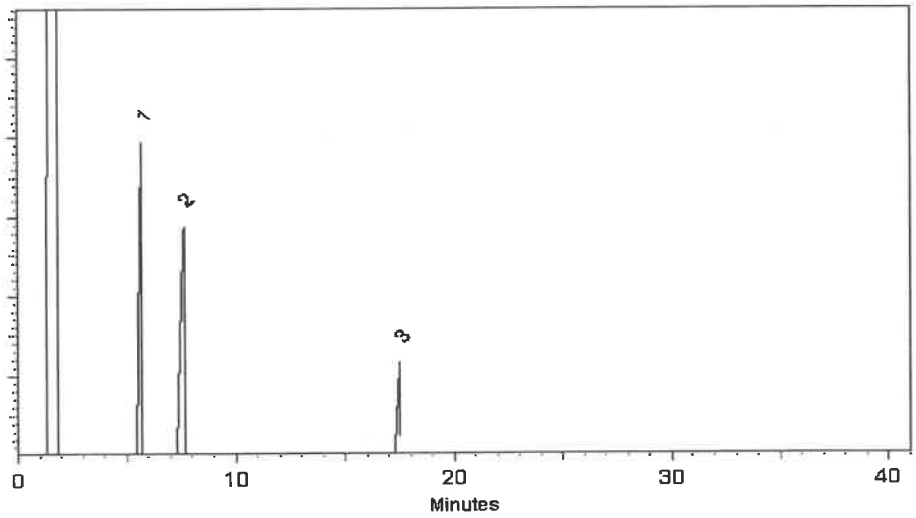
Inj. Temp:
250°C

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

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.)

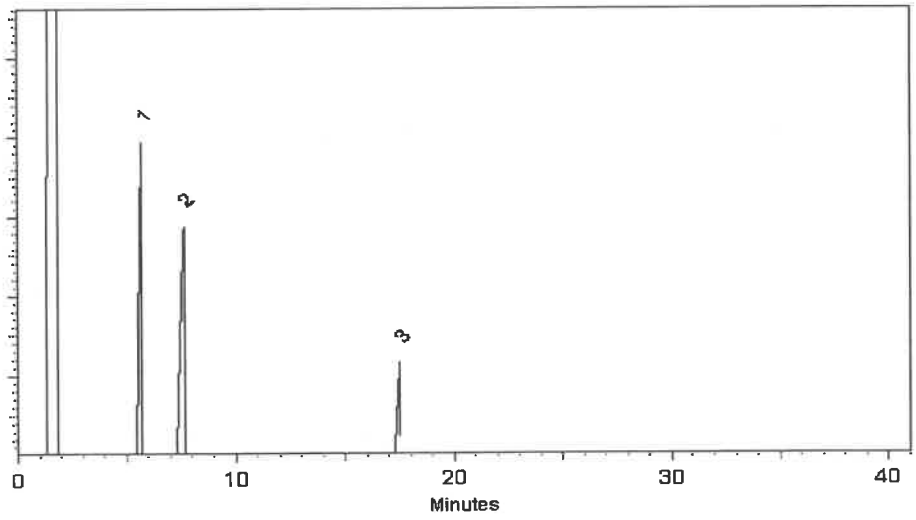
Inj. Temp:
250°C

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

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.)

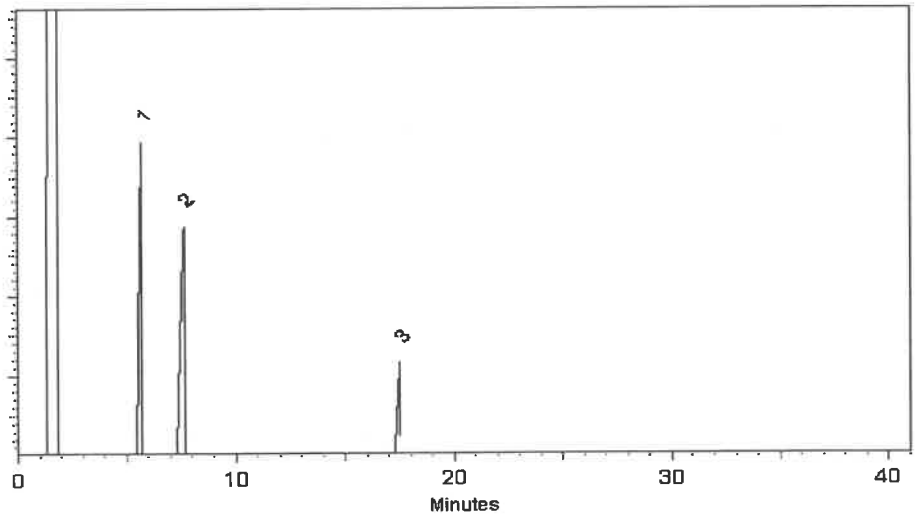
Inj. Temp:
250°C

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

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.)

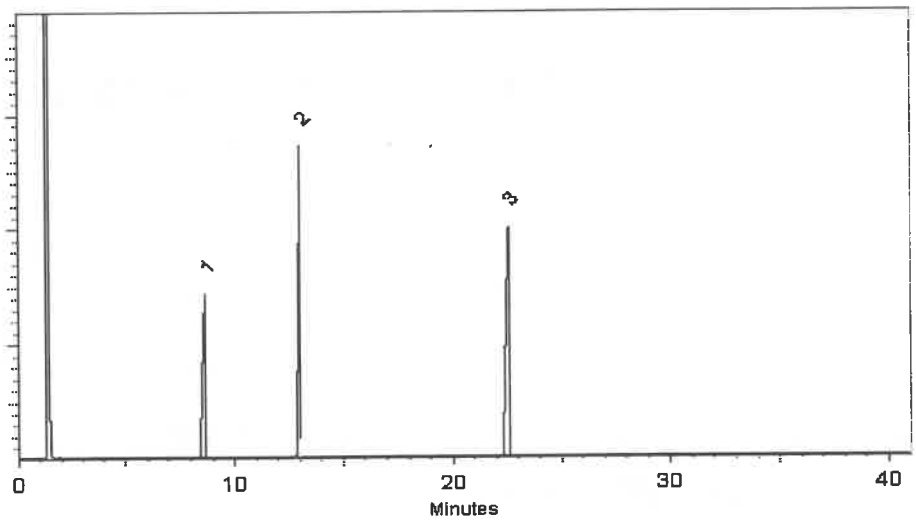
Inj. Temp:
250°C

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

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.)

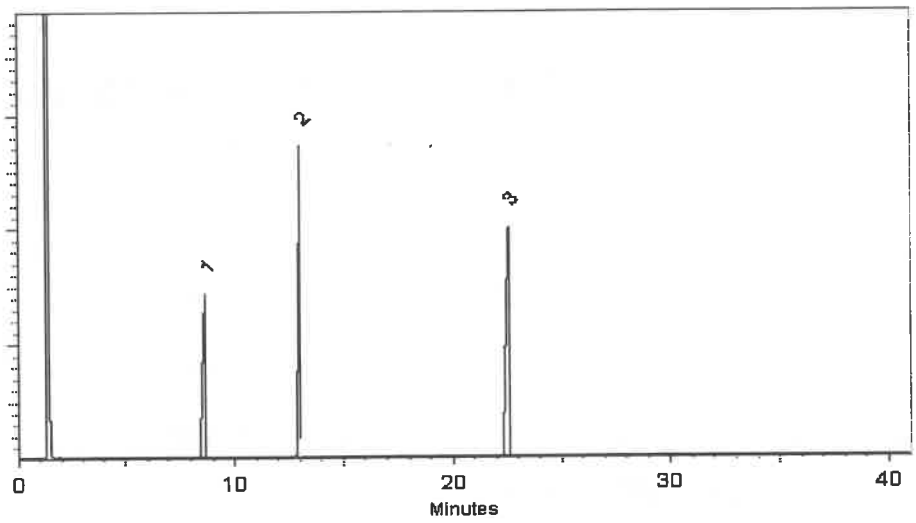
Inj. Temp:
250°C

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

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.)

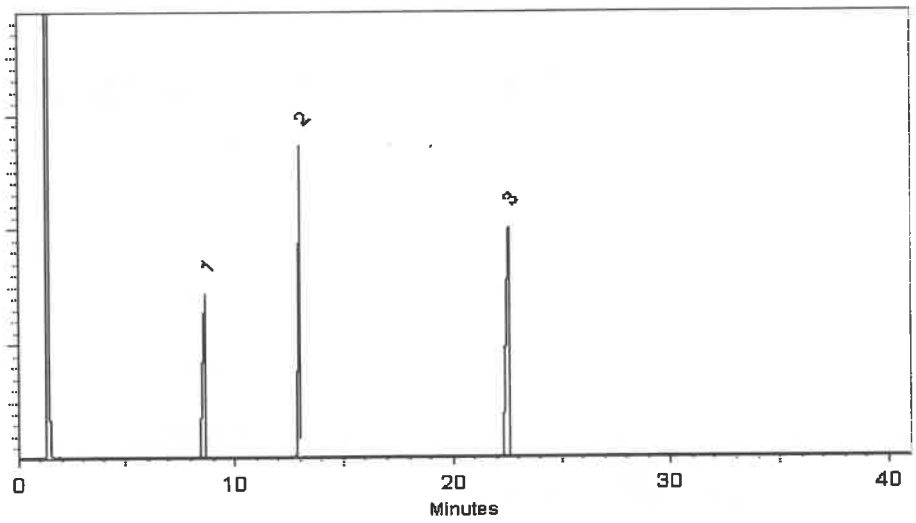
Inj. Temp:
250°C

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

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.)

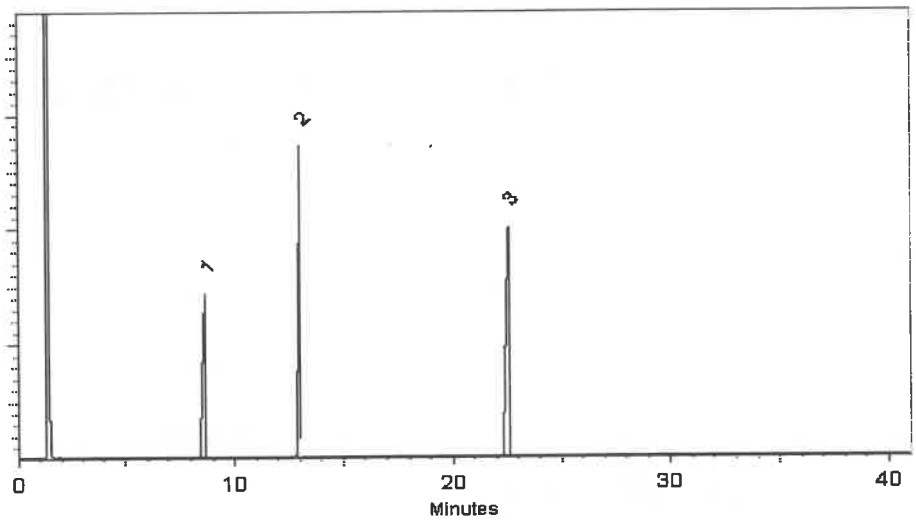
Inj. Temp:
250°C

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

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.)

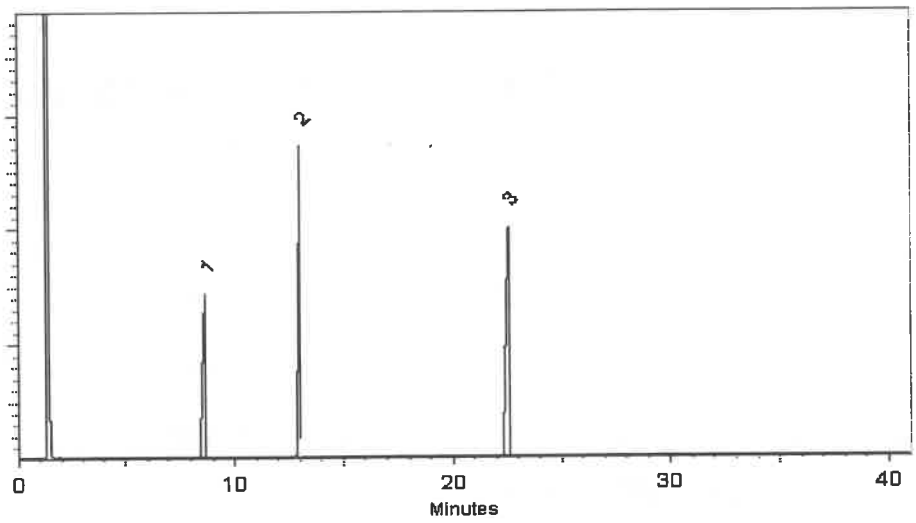
Inj. Temp:
250°C

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

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.)

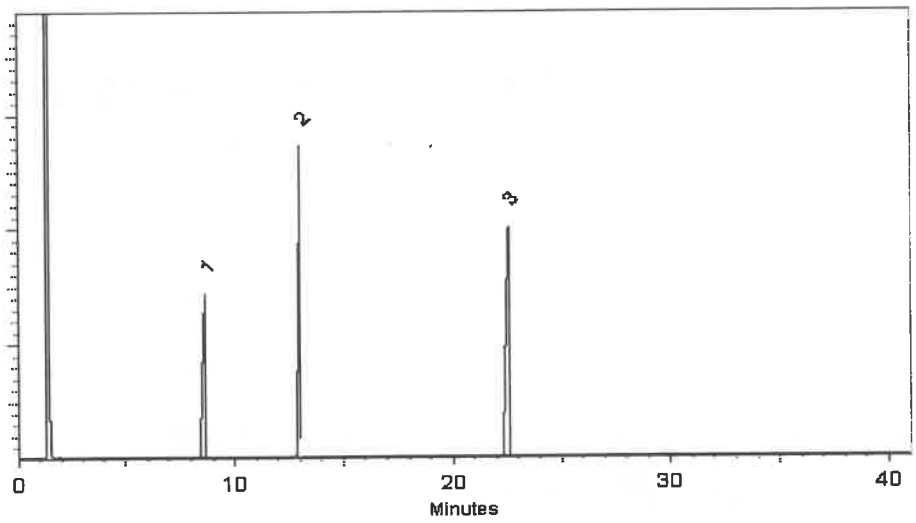
Inj. Temp:
250°C

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

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.)

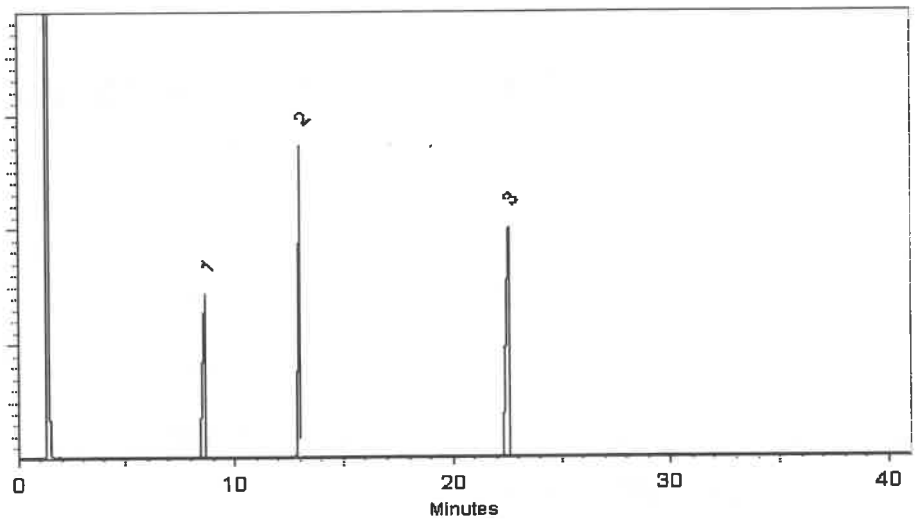
Inj. Temp:
250°C

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

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.)

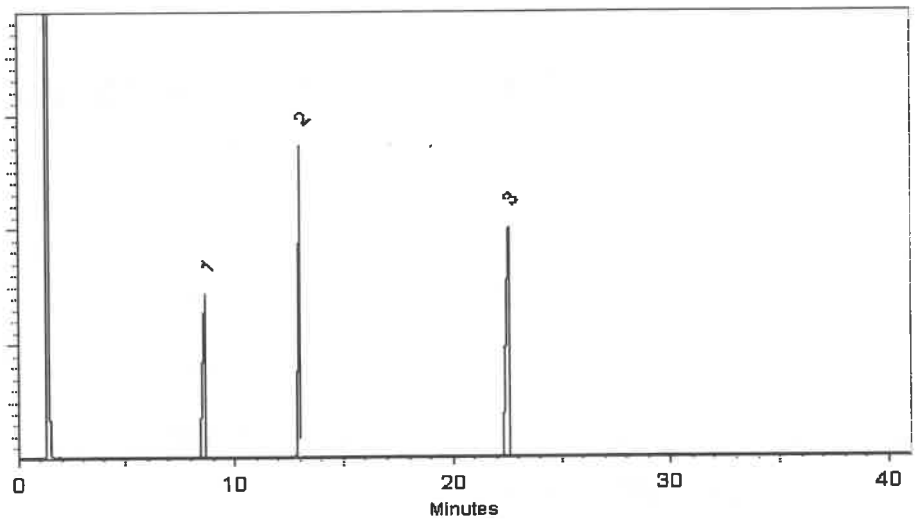
Inj. Temp:
250°C

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

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.

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 gravimetricllly.

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

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

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

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

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

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

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

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. : 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

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

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

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

chromatographic plus

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. : 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.)

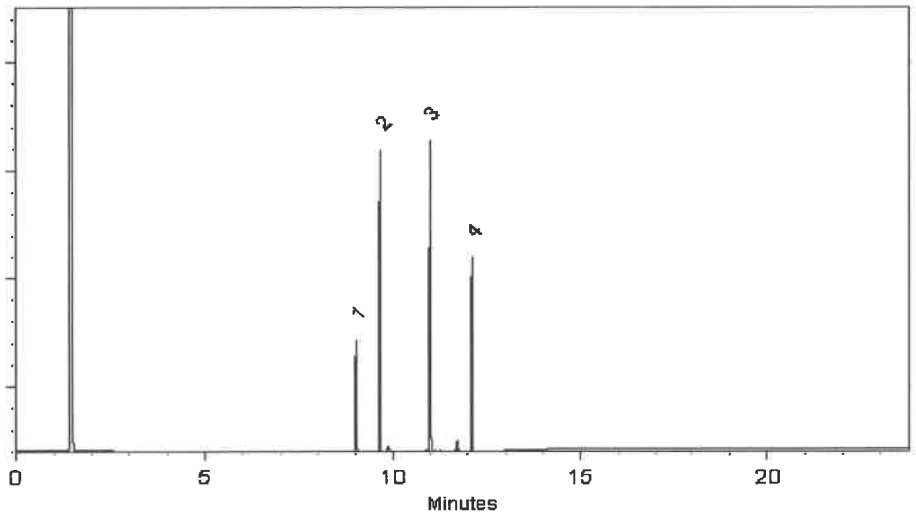
Inj. Temp:
250°C

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

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. : 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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

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

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.

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.

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	531243	≤ -10 °C	Methylene Chloride	1/2/2030	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	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 ↓ 513061 AC 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: 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.

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	525551	-18°C +/- 4°C	Methylene Chloride	9/3/2029	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	97.9	74.421.2P	994.7 ± 30.56

This RM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored. The minimum sample size recommended for use is 1µL.

513078 ↓ 513087 } AC 3/10/25

Manufactured by

Raevyn Steele
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.

*Not a certified valu

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. : 31850 **Lot No.:** A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S13088 ↓ S13117 RC 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/-	36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/-	36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/-	36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/-	36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/-	36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/-	36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/-	36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/-	36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/-	36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/-	36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/-	36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/-	36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/-	36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/-	36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/-	36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/-	36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/-	36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/-	36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/-	36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/-	36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/-	36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/-	36.6003
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	+/-	36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/-	36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/-	36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/-	36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/-	36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/-	36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/-	36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/-	36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/-	36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/-	36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/-	36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/-	36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* 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.

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.)

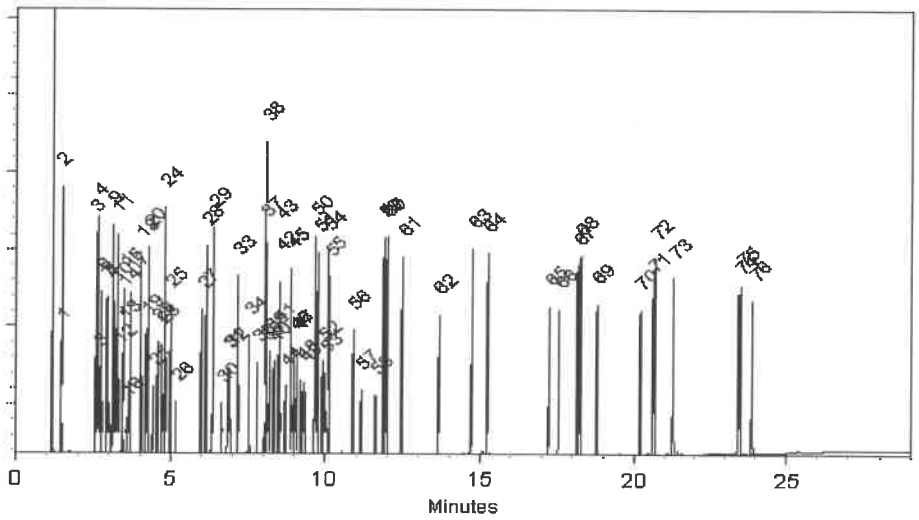
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

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. : 31850 **Lot No.:** A0221014

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S13088 ↓ S13117 RC 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/-	36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/-	36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/-	36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/-	36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/-	36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/-	36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/-	36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/-	36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/-	36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/-	36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/-	36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/-	36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/-	36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/-	36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/-	36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/-	36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/-	36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/-	36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/-	36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/-	36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/-	36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/-	36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/-	36.6003
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	+/-	36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/-	36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/-	36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/-	36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/-	36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/-	36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/-	36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/-	36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/-	36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/-	36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/-	36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/-	36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* 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.

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.)

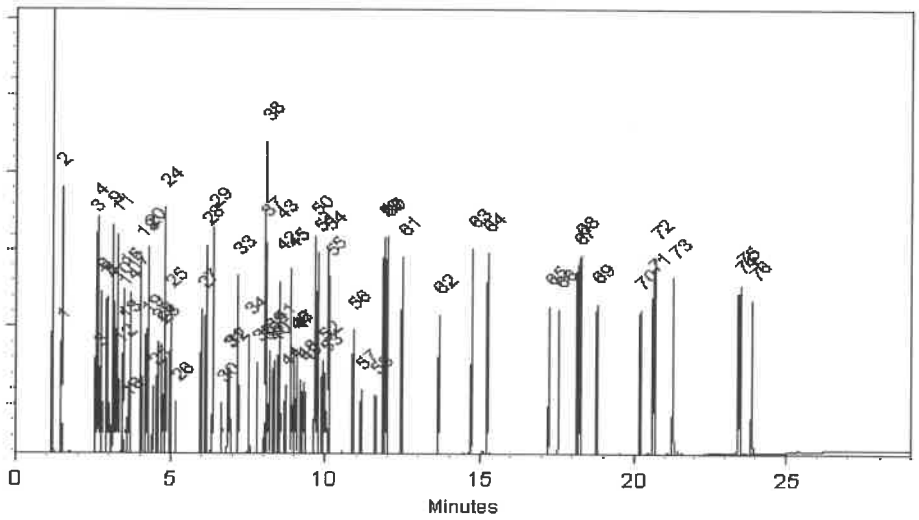
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

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

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. : 555871 **Lot No.:** A0226283

S13158 ↓ S13167 } RC/ 6/4/25

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 : June 30, 2028 **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	4-Nitrophenol	100-02-7	20241120-1-AN	99%	25,192.0 µg/mL	+/- 783.0517

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Morgan Craighead - Mix Technician

Date Mixed: 02-Jun-2025 **Balance:** C322230531

REVIEWED By Dillon Murphy at 11:21 am, Jun 03, 2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555871 **Lot No.:** A0226283

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

S13158 ↓ S13167 } RC/ 6/4/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **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	4-Nitrophenol	100-02-7	20241120-1-AN	99%	25,192.0 µg/mL	+/- 783.0517

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Morgan Craighead - Mix Technician

Date Mixed: 02-Jun-2025 **Balance:** C322230531

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S13198 → S13207 AC 6/11/25

Catalog No. : 555868 **Lot No.:** A0226493

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, 2028 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S250227ECS	99%	25,004.0 µg/mL	+/- 495.8040

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Laith Clemente - Operations Technician I

Date Mixed: 09-Jun-2025 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 70434
Lot Number: 121622
Description: Acetophenone

Expiration Date: 121627
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

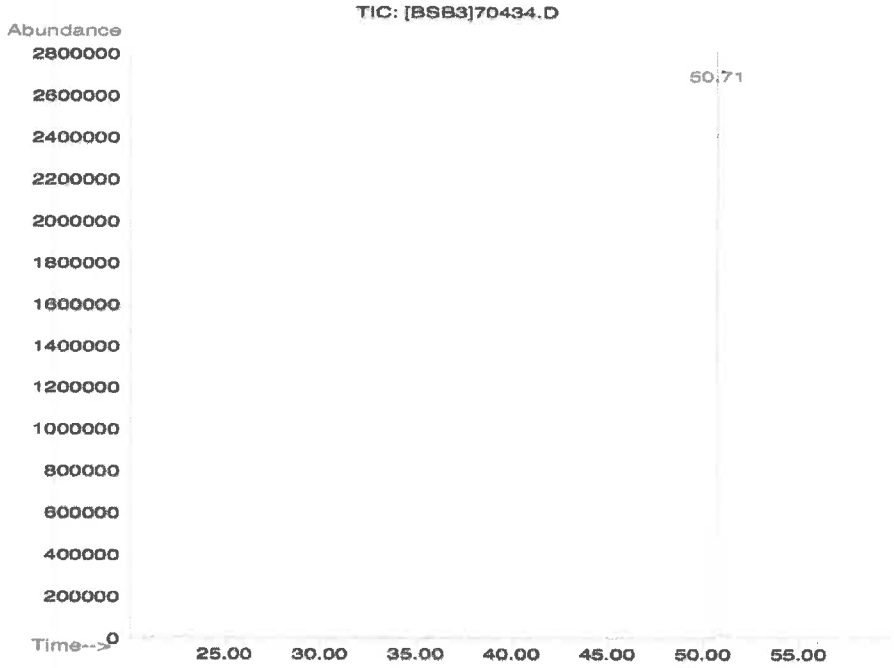
Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

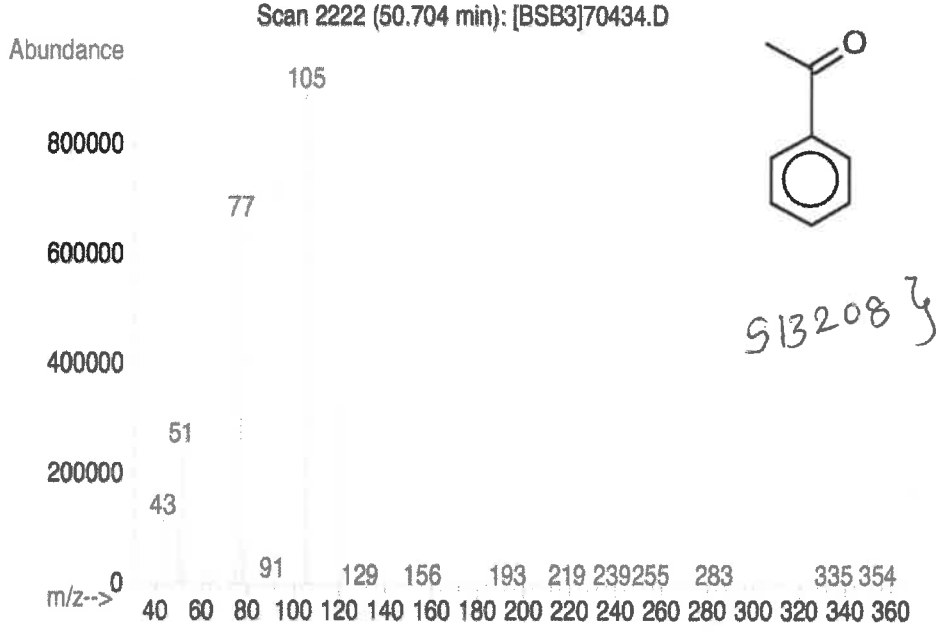
		121622
Formulated By:	Benson Chan	DATE
		121622
Reviewed By:	Pedro L. Rentas	DATE

Weight(s) shown below were combined and diluted to (mL): 50.0 — 5E-05 Balance Uncertainty — 0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Acetophenone	434	04511JX	1000	99	0.2	0.05055	0.05075	1004.0	4.5	98-86-2	N/A	orl-rat 815mg/kg

Method: GC6MSD-1. **Detector:** MSD. **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp.= 200°C, Detector Temp. = 220°C. **Analyst:** Candice Warren. Solvent delay = 25 minutes.

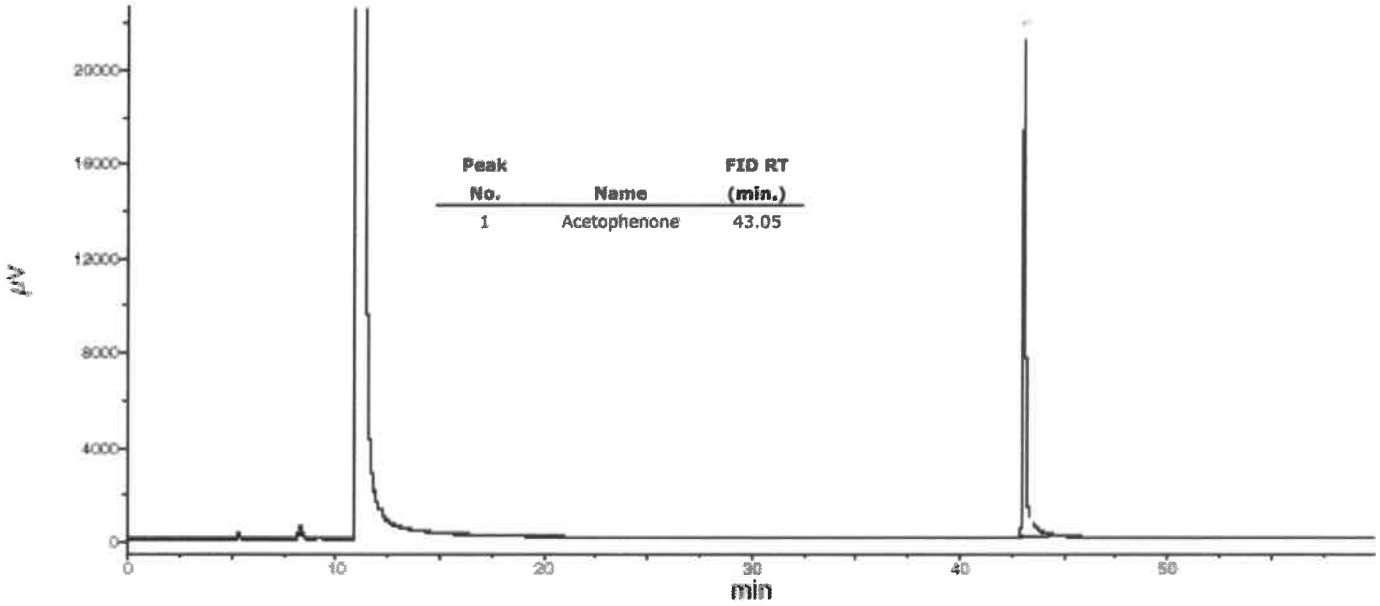




S13208 % RC/ 6/19/25

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Comments
GC13-M1 Analysis by Melissa Stonier
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak No.	Name	FID RT (min.)
1	Acetophenone	43.05

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

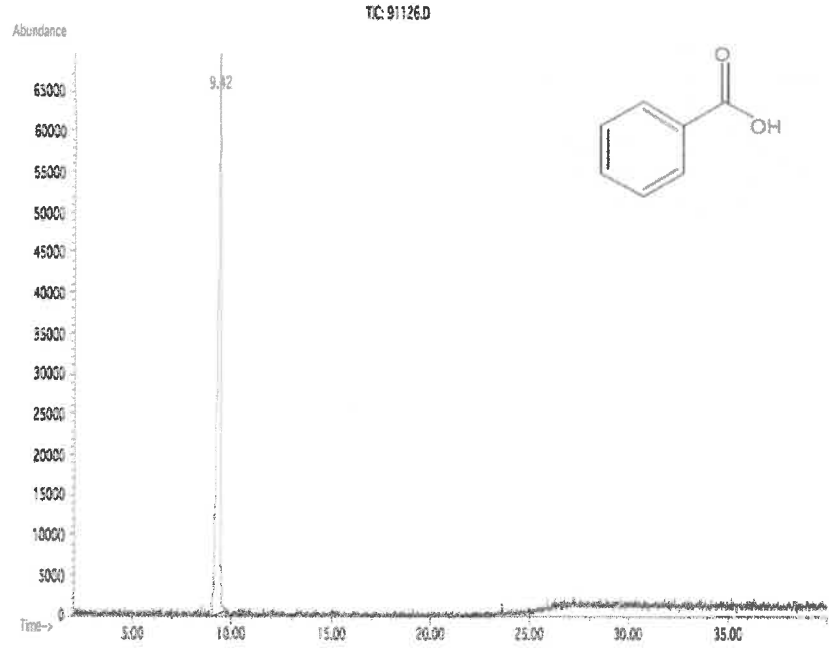
CERTIFIED WEIGHT REPORT

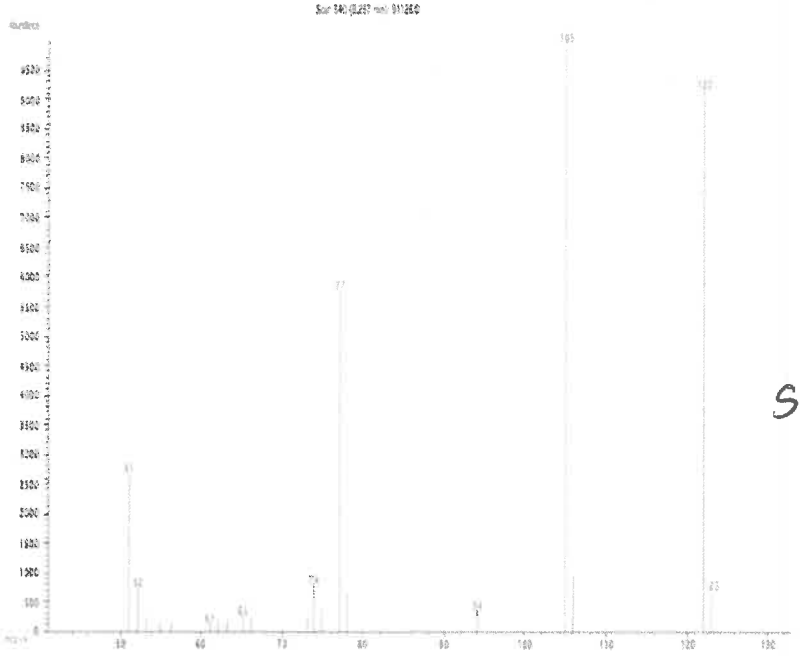
Part Number:	**91126**	**Solvent(s):**	**Lot#**
Lot Number:	060625	Methylene chloride	23343
Description:	Benzoic acid		
Expiration Date:	060630		
Recommended Storage:	Refrigerate (4 °C)		
Nominal Concentration (µg/mL):	2000		
NIST Test ID#:	6UTB	5E-05 Balance Uncertainty	
Weight(s) shown below were combined and diluted to (mL):	100.0	0.031 Flask Uncertainty	

		060625
Formulated By:	Anthony Mahoney	DATE
		060625
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Benzoic acid	34	11930AW	2000.0	99	0.2	0.20211	0.20227	2001.6	8.2	65-85-0	N/A	orl-rat 1700mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C. Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Melissa Stonier.





S132097 RC 6/19/25

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 34571
Lot Number: 092324
Description: 1,2,4,5-Tetrachlorobenzene

Solvent(s): Methanol **Lot#** EI863-US

Expiration Date: 092334
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.004 Flask Uncertainty

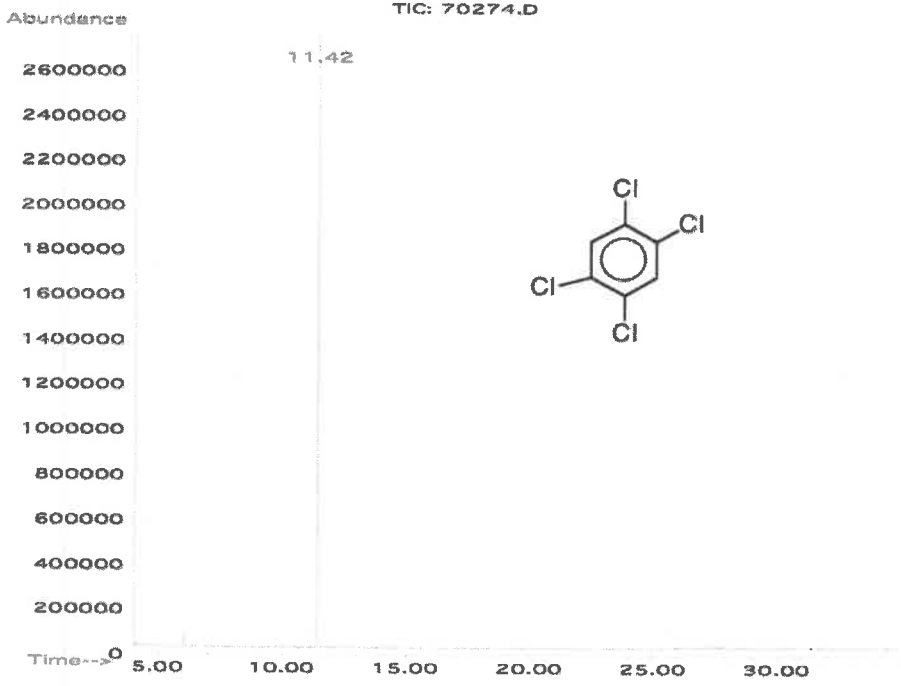
Weight(s) shown below were combined and diluted to (mL): 25.0

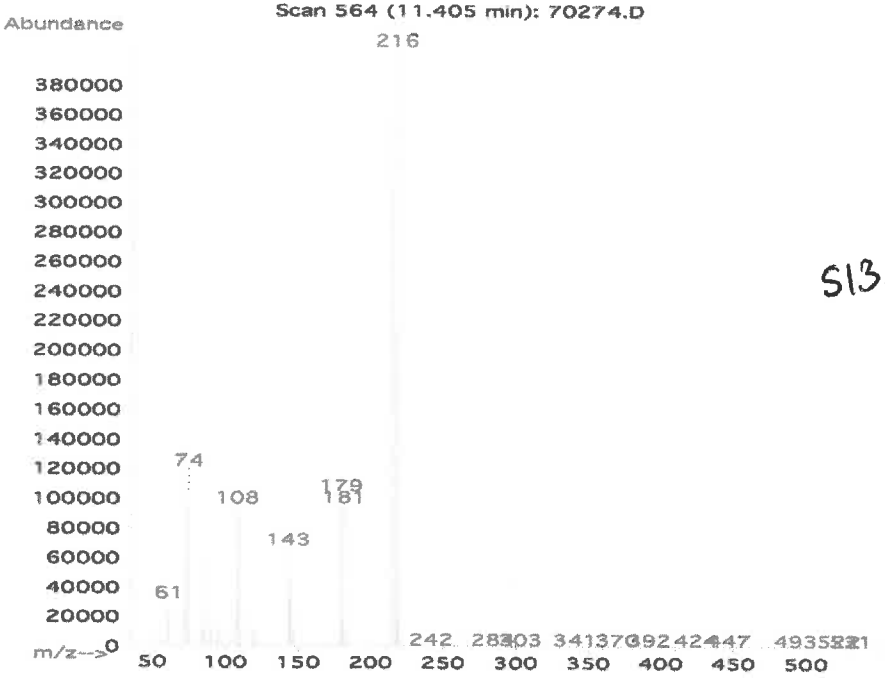
CAUTION: Sonicate Before Use

Formulated By:	Lawrence Barry	092324 DATE
Reviewed By:	Pedro L. Rentas	092324 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1,2,4,5-Tetrachlorobenzene	274	10408AS	5000	98	0.20	0.12761	0.12765	5001.4	20.8	95-94-3	N/A	orl-rat 1500mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





S132113 RC 6/19/25.

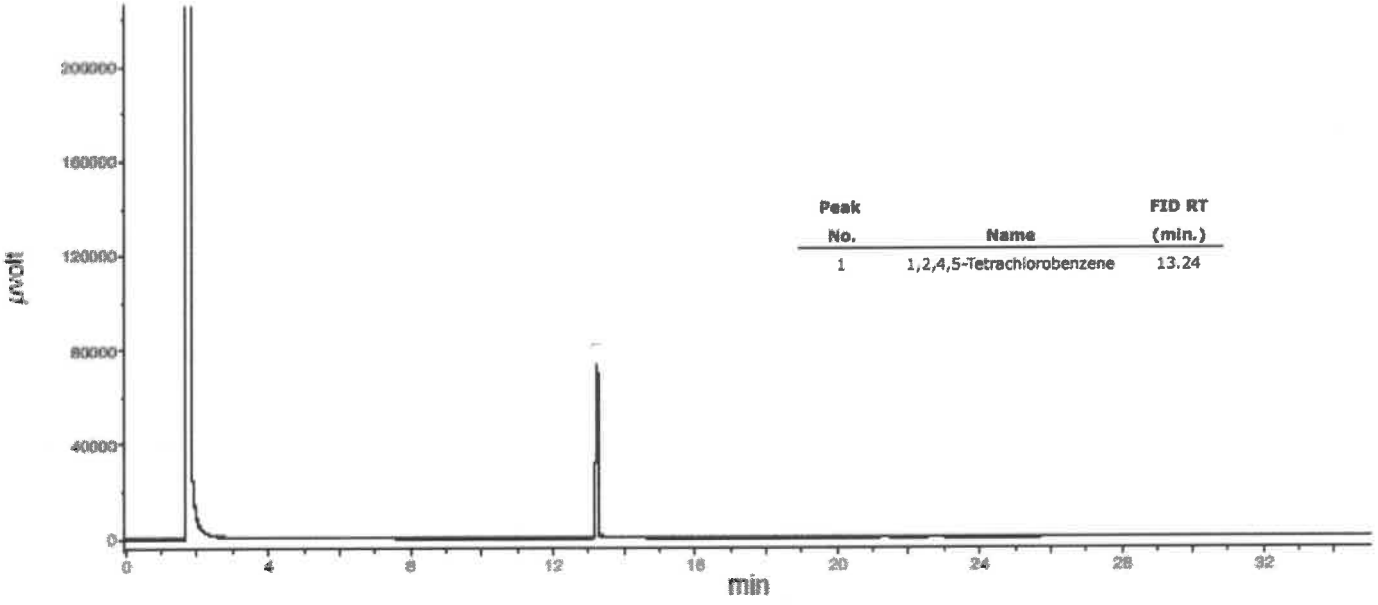
- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Run 31, "P34571 L092324 [5000µg/mL in MeOH]"

Run Length: 35.00 min, 20999 points at 10 points/second.
Created: Fri, Jan 3, 2025 at 11:24:40 AM.
Sampled: Sequence "010225-GC4M1", Method "GC4-M1".
Analyzed using Method "GC4-M1".

Comments

GC4-M1 Analysis by Melissa Stonier
Column ID SPB5 L#60062-01A : 30 meter x 0.53mm x 1.5um Film Thickness
Flow rates; Total Flow = 300 ml/min, Helium (carrier) = 6.5 mL, Helium (make-up) = 25 mL, Hydrogen (detector) = 30 mL, Air (detector) =360 mL
Oven Temp 1 = 50°C (1 min), Rate = 10°C/min, Oven Temp 2 = 300°C (9 min), Total Run Time = 35 Minutes.
Injector Temp = 200°C, FID Temp = 300°C, FID Signal = eDaq Channel 1.
Gas Chromatograph = HP 5890, Auto Sampler = HP 7673, Standard Injection = 0.5 uL, Range = 7



Peak No.	Name	FID RT (min.)
1	1,2,4,5-Tetrachlorobenzene	13.24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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. : 555869 **Lot No.:** A0201702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

513148 ↓ 513157 RC 11/13/23

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 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	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	25,244.0 µg/mL	+/- 450.6896

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 05-Sep-2023 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO. Q 2592
QUOTE NO.
COC Number 2047546

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Parsons
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy
PHONE: (732)796-5536 FAX: —

CLIENT PROJECT INFORMATION

PROJECT NAME: ConEd East River S1
PROJECT NO.: 454534 LOCATION: Manhattan
PROJECT MANAGER: Zohar Lavy
e-mail: Zohar.lavy@parsons.com
PHONE: (732)-796-5536 FAX: —

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#: 454534
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Zohar Lavy PHONE: (732)-796-5536

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 5-day rush DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1. VOCs, SVOCs
2. TAL metals
3. PCBs, TPH
4. TCLP VOCs, TCLP SVOCs
5. TCLP metals
6. TCLP pest, TCLP herb
7. Ignitability, reactivity
8. corrosivity, pH
9.

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E	E	E	E	E	E	E	E		← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	WC-Soil-20250711	S	X		7/11/25	1230	9	X	X	X	X	X	X	X	X		
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. Emma Sauer	7/11/25 1440	1. 7-11-25 1440
2.		2.
3.	7-11-25 1637	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: Include Zohar.lavy@parsons.com and Kirsten.valentini@parsons.com on all data

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

Copyright © 2024

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2592 PARS02
Client Name : PARSONS Engineering of N
Client Contact : Zohar Lavy
Invoice Name : PARSONS Engineering of N
Invoice Contact : Zohar Lavy

Order Date : 7/11/2025 3:05:25 PM
Project Name : Con Edison - East River Sit
Receive DateTime : 7/11/2025 ~~12:00:00 AM~~ 04:39:00 PM
Purchase Order :

Project Mgr :
Report Type : NYS ASP B
EDD Type : NYSDEC EDD V-3
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2592-01	WC-SOIL-20250711	Solid	07/11/2025	12:30					
					VOCMS Group1		8260D		5 Bus. Days

DP 07/15/2025

Relinguished By :
Date / Time : 7/14/25 0725

SAMPLES RECEIVED ON 7/11/25 @ 1440
SAMPLES PLACED IN SM-REF-2

Received By : Sam
Date / Time : 07/14/25 10:00

Storage Area : **VOA Refridgerator Room**

RGH 6 FRZ