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

Cover Page

Order ID : Q1235

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number	Client Sample Number
Q1235-01	JPP-51.2-012925
Q1235-02	JPP-51.2-012925
Q1235-03	JPP-51.2-012925
Q1235-04	JPP-51.2-012925
Q1235-05	JPP-16.1-012925
Q1235-06	JPP-16.1-012925
Q1235-07	JPP-16.1-012925
Q1235-08	JPP-16.1-012925

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

Signature : _____

Date: 2/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

RU2 Engineering, LLC
Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Project # N/A
Chemtech Project # Q1235
Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:
8 Solid samples were received on 01/30/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. 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 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 met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID BF141336.D met the requirements except for Pentachlorophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.

The Tuning criteria met requirements.

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

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

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

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

CHEMTECH PROJECT NUMBER: Q1235 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 Initial Calibration met the requirements . The Continuous Calibration File ID BF141336.D met the requirements except for Pentachlorophenol, The associate samples have no positive hit for these compounds therefore no corrective action was taken.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples .			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			

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

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

ADDITIONAL COMMENTS:

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points. Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1235**

	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:** **02/11/2025**

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

LAB CHRONICLE

OrderID:	Q1235	**OrderDate:**	1/30/2025 12:15:00 PM
Client:	RU2 Engineering, LLC	**Project:**	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	**Location:**	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1235-04	**JPP-51.2-012925**	**TCLP**			**01/29/25**			**01/30/25**
			TCLP BNA	8270E		01/31/25	02/03/25	
Q1235-08	**JPP-16.1-012925**	**TCLP**			**01/29/25**			**01/30/25**
			TCLP BNA	8270E		01/31/25	02/03/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1235

Client: RU2 Engineering, LLC

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.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB166356TB	PB166356TB	2-Fluorophenol	150	126	84		10	139
		Phenol-d6	150	123	82		10	134
		Nitrobenzene-d5	100	86.5	86		49	133
		2-Fluorobiphenyl	100	86.2	86		52	132
		2,4,6-Tribromophenol	150	136	90		44	137
		Terphenyl-d14	100	80.1	80		48	125
PB166426BL	PB166426BL	2-Fluorophenol	150	159	106		10	139
		Phenol-d6	150	143	95		10	134
		Nitrobenzene-d5	100	103	103		49	133
		2-Fluorobiphenyl	100	100	100		52	132
		2,4,6-Tribromophenol	150	159	106		44	137
		Terphenyl-d14	100	84.0	84		48	125
PB166426BS	PB166426BS	2-Fluorophenol	150	132	88		10	139
		Phenol-d6	150	127	85		10	134
		Nitrobenzene-d5	100	92.2	92		49	133
		2-Fluorobiphenyl	100	93.5	94		52	132
		2,4,6-Tribromophenol	150	154	102		44	137
		Terphenyl-d14	100	89.9	90		48	125
Q1218-02MS	BELL-25-002MS	2-Fluorophenol	150	117	78		10	139
		Phenol-d6	150	108	72		10	134
		Nitrobenzene-d5	100	92.8	93		49	133
		2-Fluorobiphenyl	100	92.6	93		52	132
		2,4,6-Tribromophenol	150	120	80		44	137
		Terphenyl-d14	100	63.3	63		48	125
Q1218-02MSD	BELL-25-002MSD	2-Fluorophenol	150	124	83		10	139
		Phenol-d6	150	118	78		10	134
		Nitrobenzene-d5	100	89.4	89		49	133
		2-Fluorobiphenyl	100	85.7	86		52	132
		2,4,6-Tribromophenol	150	120	80		44	137
		Terphenyl-d14	100	68.2	68		48	125
Q1235-04	JPP-51.2-012925	2-Fluorophenol	150	138	92		10	139
		Phenol-d6	150	130	87		10	134
		Nitrobenzene-d5	100	106	106		49	133
		2-Fluorobiphenyl	100	102	102		52	132
		2,4,6-Tribromophenol	150	166	110		44	137
		Terphenyl-d14	100	96.5	96		48	125
Q1235-08	JPP-16.1-012925	2-Fluorophenol	150	132	88		10	139
		Phenol-d6	150	128	85		10	134
		Nitrobenzene-d5	100	101	101		49	133
		2-Fluorobiphenyl	100	103	103		52	132
		2,4,6-Tribromophenol	150	168	112		44	137
		Terphenyl-d14	100	96.1	96		48	125

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.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1218-02MS		**Client Sample ID: BELL-25-002MS**						**DataFile: BF141339.D**			
Pyridine	500	0	210	ug/L	42				10	109	
1,4-Dichlorobenzene	500	0	360	ug/L	72				55	125	
2-Methylphenol	500	0	360	ug/L	72				37	126	
3+4-Methylphenols	500	0	350	ug/L	70				31	127	
Hexachloroethane	500	0	380	ug/L	76				49	110	
Nitrobenzene	500	0	480	ug/L	96				62	112	
Hexachlorobutadiene	500	0	340	ug/L	68				52	125	
2,4,6-Trichlorophenol	500	0	460	ug/L	92				78	112	
2,4,5-Trichlorophenol	500	0	420	ug/L	84				71	111	
2,4-Dinitrotoluene	500	0	380	ug/L	76				50	142	
Hexachlorobenzene	500	0	440	ug/L	88				72	115	
Pentachlorophenol	1000	0	980	ug/L	98				25	139	

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.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q1218-02MSD		**Client Sample ID: BELL-25-002MSD**						**DataFile: BF141340.D**			
Pyridine	500	0	220	ug/L	44		5		10	109	20
1,4-Dichlorobenzene	500	0	360	ug/L	72		0		55	125	20
2-Methylphenol	500	0	400	ug/L	80		11		37	126	20
3+4-Methylphenols	500	0	400	ug/L	80		13		31	127	20
Hexachloroethane	500	0	380	ug/L	76		0		49	110	20
Nitrobenzene	500	0	460	ug/L	92		4		62	112	20
Hexachlorobutadiene	500	0	320	ug/L	64		6		52	125	20
2,4,6-Trichlorophenol	500	0	450	ug/L	90		2		78	112	20
2,4,5-Trichlorophenol	500	0	440	ug/L	88		5		71	111	20
2,4-Dinitrotoluene	500	0	380	ug/L	76		0		50	142	20
Hexachlorobenzene	500	0	450	ug/L	90		2		72	115	20
Pentachlorophenol	1000	0	940	ug/L	94		4		25	139	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.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: 8270E **DataFile:** BF141407.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB166426BS	Pyridine	50	39.6	ug/L	79				29	97	
	1,4-Dichlorobenzene	50	45.5	ug/L	91				76	103	
	2-Methylphenol	50	45.9	ug/L	92				69	109	
	3+4-Methylphenols	50	48.4	ug/L	97				67	106	
	Hexachloroethane	50	47.5	ug/L	95				76	118	
	Nitrobenzene	50	44.9	ug/L	90				58	106	
	Hexachlorobutadiene	50	48.0	ug/L	96				69	101	
	2,4,6-Trichlorophenol	50	48.8	ug/L	98				61	110	
	2,4,5-Trichlorophenol	50	47.3	ug/L	95				70	106	
	2,4-Dinitrotoluene	50	50.0	ug/L	100				60	115	
	Hexachlorobenzene	50	48.9	ug/L	98				73	106	
	Pentachlorophenol	100	100	ug/L	100				47	114	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166426BL

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141362.D Lab Sample ID: PB166426BL

Instrument ID: BNA_F Date Extracted: 01/31/2025

Matrix: (soil/water) water Date Analyzed: 02/03/2025

Level: (low/med) LOW Time Analyzed: 11:51

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
JPP-51.2-012925	Q1235-04	BF141378.D	02/03/2025
JPP-16.1-012925	Q1235-08	BF141379.D	02/03/2025
PB166356TB	PB166356TB	BF141406.D	02/04/2025
PB166426BS	PB166426BS	BF141407.D	02/04/2025
BELL-25-002MS	Q1218-02MS	BF141339.D	01/31/2025
BELL-25-002MSD	Q1218-02MSD	BF141340.D	01/31/2025

COMMENTS:

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141289.D DFTPP Injection Date: 01/29/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (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	BF141290.D	01/29/2025	10:30
SSTDICC005	SSTDICC005	BF141291.D	01/29/2025	10:56
SSTDICC010	SSTDICC010	BF141292.D	01/29/2025	11:49
SSTDICC020	SSTDICC020	BF141293.D	01/29/2025	15:17
SSTDICCC040	SSTDICCC040	BF141294.D	01/29/2025	15:45
SSTDICC050	SSTDICC050	BF141295.D	01/29/2025	16:11
SSTDICC060	SSTDICC060	BF141296.D	01/29/2025	16:38
SSTDICC080	SSTDICC080	BF141297.D	01/29/2025	17:05

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141335.D DFTPP Injection Date: 01/31/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.6 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141336.D	01/31/2025	17:19
BELL-25-002MS	Q1218-02MS	BF141339.D	01/31/2025	18:44
BELL-25-002MSD	Q1218-02MSD	BF141340.D	01/31/2025	19:11

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141360.D DFTPP Injection Date: 02/03/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.2
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	47.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	25.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (18.6) 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	BF141361.D	02/03/2025	11:24
PB166426BL	PB166426BL	BF141362.D	02/03/2025	11:51

Raw Data: **BF141372.D**

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141372.D DFTPP Injection Date: 02/03/2025

Instrument ID: BNA_F DFTPP Injection Time: 16:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.1
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	50.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.7 (19.5) 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	BF141373.D	02/03/2025	17:14
JPP-51.2-012925	Q1235-04	BF141378.D	02/03/2025	19:31
JPP-16.1-012925	Q1235-08	BF141379.D	02/03/2025	19:57

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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: BF141397.D DFTPP Injection Date: 02/04/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.3
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	49.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141398.D	02/04/2025	10:42
PB166356TB	PB166356TB	BF141406.D	02/04/2025	14:13
PB166426BS	PB166426BS	BF141407.D	02/04/2025	14:39

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/31/2025

Lab File ID: BF141336.D Time Analyzed: 17:19

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	140033	6.798	558386	8.08	299701	9.84
	UPPER LIMIT	280066	7.298	1116770	8.581	599402	10.339
	LOWER LIMIT	70016.5	6.298	279193	7.581	149851	9.339
	EPA SAMPLE NO.						
01	BELL-25-002MS	131554	6.80	434471	8.08	208861	9.84
02	BELL-25-002MSD	142670	6.80	521314	8.09	271292	9.85

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/31/2025

Lab File ID: BF141336.D Time Analyzed: 17:19

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	493954	11.322	281629	13.968	286623	15.433
	UPPER LIMIT	987908	11.822	563258	14.468	573246	15.933
	LOWER LIMIT	246977	10.822	140815	13.468	143312	14.933
	EPA SAMPLE NO.						
01	BELL-25-002MS	316494	11.32	287072	13.97	323532	15.43
02	BELL-25-002MSD	395783	11.33	279691	13.97	312761	15.42

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141361.D Time Analyzed: 11:24

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	93803	6.798	362783	8.08	198566	9.83
	UPPER LIMIT	187606	7.298	725566	8.581	397132	10.333
	LOWER LIMIT	46901.5	6.298	181392	7.581	99283	9.333
	EPA SAMPLE NO.						
01	PB166426BL	87343	6.79	347606	8.08	191809	9.83

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141361.D Time Analyzed: 11:24

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	334466	11.322	243574	13.968	284769	15.427
	UPPER LIMIT	668932	11.822	487148	14.468	569538	15.927
	LOWER LIMIT	167233	10.822	121787	13.468	142385	14.927
	EPA SAMPLE NO.						
01	PB166426BL	337058	11.32	285942	13.96	281061	15.42

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141373.D Time Analyzed: 17:14

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	104167	6.798	414412	8.08	226326	9.83
	UPPER LIMIT	208334	7.298	828824	8.581	452652	10.333
	LOWER LIMIT	52083.5	6.298	207206	7.581	113163	9.333
	EPA SAMPLE NO.						
01	JPP-51.2-012925	86999	6.79	348940	8.08	188071	9.83
02	JPP-16.1-012925	107174	6.79	436153	8.08	203707	9.83

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/03/2025

Lab File ID: BF141373.D Time Analyzed: 17:14

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	383558	11.322	233911	13.963	231577	15.415
	UPPER LIMIT	767116	11.822	467822	14.463	463154	15.915
	LOWER LIMIT	191779	10.822	116956	13.463	115789	14.915
	EPA SAMPLE NO.						
01	JPP-51.2-012925	314025	11.32	221716	13.96	151667	15.42
02	JPP-16.1-012925	355432	11.32	246834	13.96	169780	15.42

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/04/2025

Lab File ID: BF141398.D Time Analyzed: 10:42

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	87552	6.793	331835	8.08	180473	9.83
	UPPER LIMIT	175104	7.293	663670	8.575	360946	10.328
	LOWER LIMIT	43776	6.293	165918	7.575	90236.5	9.328
	EPA SAMPLE NO.						
01	PB166356TB	94457	6.79	389015	8.07	210477	9.83
02	PB166426BS	82681	6.79	331184	8.08	180993	9.83

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

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

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

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/04/2025

Lab File ID: BF141398.D Time Analyzed: 10:42

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	318826	11.316	235294	13.963	201713	15.421
	UPPER LIMIT	637652	11.816	470588	14.463	403426	15.921
	LOWER LIMIT	159413	10.816	117647	13.463	100857	14.921
	EPA SAMPLE NO.						
01	PB166356TB	363737	11.32	282057	13.96	223254	15.42
02	PB166426BS	312610	11.32	234119	13.96	200536	15.42

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

Raw Data: **BF141406.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PB166356TB	SDG No.:	Q1235
Lab Sample ID:	PB166356TB	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141406.D	1	01/31/25 10:29	02/04/25 14:13	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	126		10 - 139	84%	SPK: 150
13127-88-3	Phenol-d6	123		10 - 134	82%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.5		49 - 133	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.2		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	90%	SPK: 150
1718-51-0	Terphenyl-d14	80.1		48 - 125	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	94500	6.787			
1146-65-2	Naphthalene-d8	389000	8.069			
15067-26-2	Acenaphthene-d10	210000	9.828			
1517-22-2	Phenanthrene-d10	364000	11.316			
1719-03-5	Chrysene-d12	282000	13.957			
1520-96-3	Perylene-d12	223000	15.421			

Raw Data: **BF141406.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/31/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/31/25
Client Sample ID:	PB166356TB	SDG No.:	Q1235
Lab Sample ID:	PB166356TB	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141406.D	1	01/31/25 10:29	02/04/25 14:13	PB166426

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\BF020425\
Data File : BF141406.D
Acq On : 04 Feb 2025 14:13
Operator : RC/JU
Sample : PB166356TB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Quant Time: Feb 04 14:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

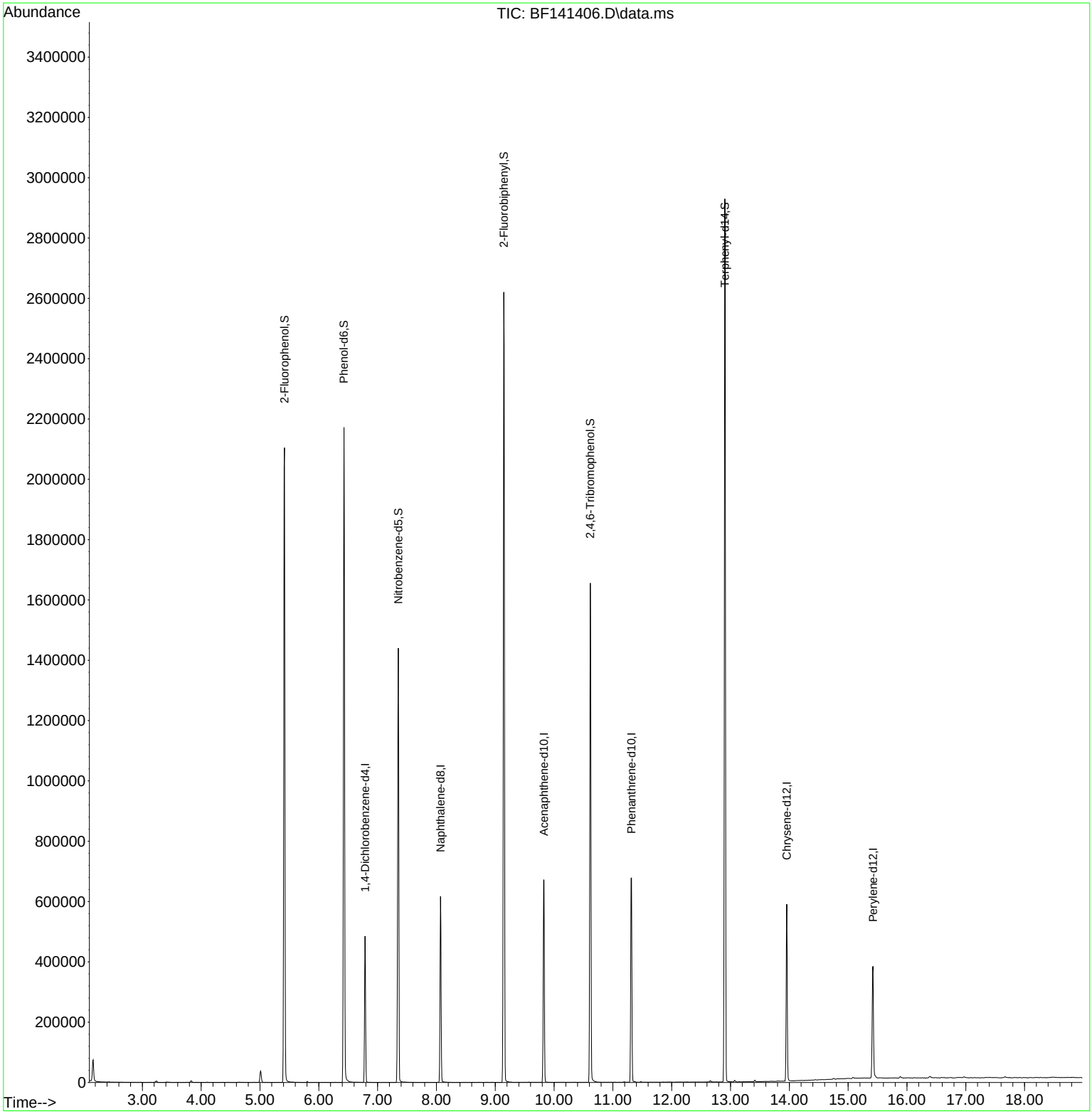
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	94457	20.000	ng	-0.02
21) Naphthalene-d8	8.069	136	389015	20.000	ng	-0.02
39) Acenaphthene-d10	9.828	164	210477	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	363737	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	282057	20.000	ng	-0.02
86) Perylene-d12	15.421	264	223254	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	775752	126.082	ng	0.00
7) Phenol-d6	6.428	99	960023	122.654	ng	-0.01
23) Nitrobenzene-d5	7.351	82	638025	86.461	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	261673	135.611	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1179184	86.232	ng	-0.02
79) Terphenyl-d14	12.904	244	1465153	80.109	ng	-0.01
Target Compounds						Qvalue

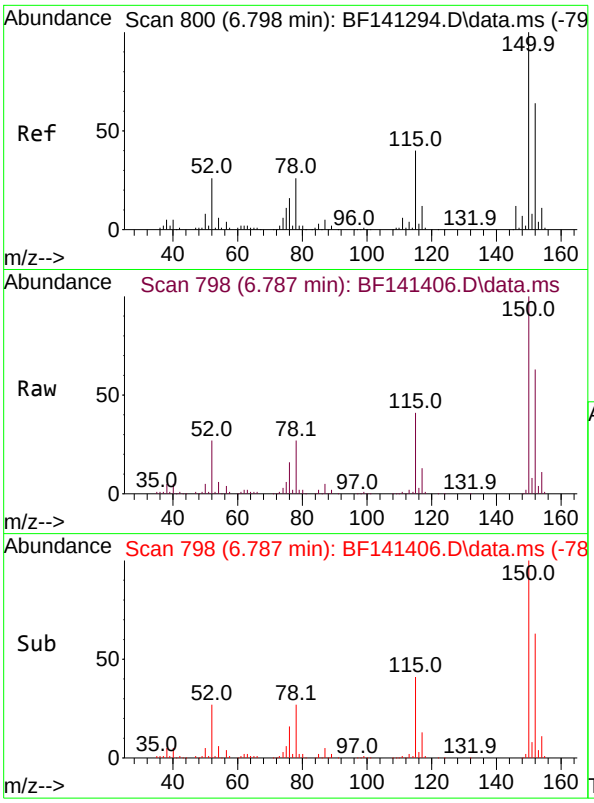
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141406.D
Acq On : 04 Feb 2025 14:13
Operator : RC/JU
Sample : PB166356TB
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Quant Time: Feb 04 14:35:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



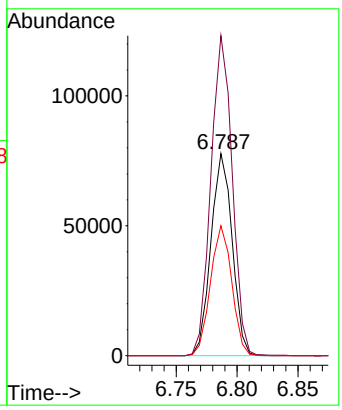


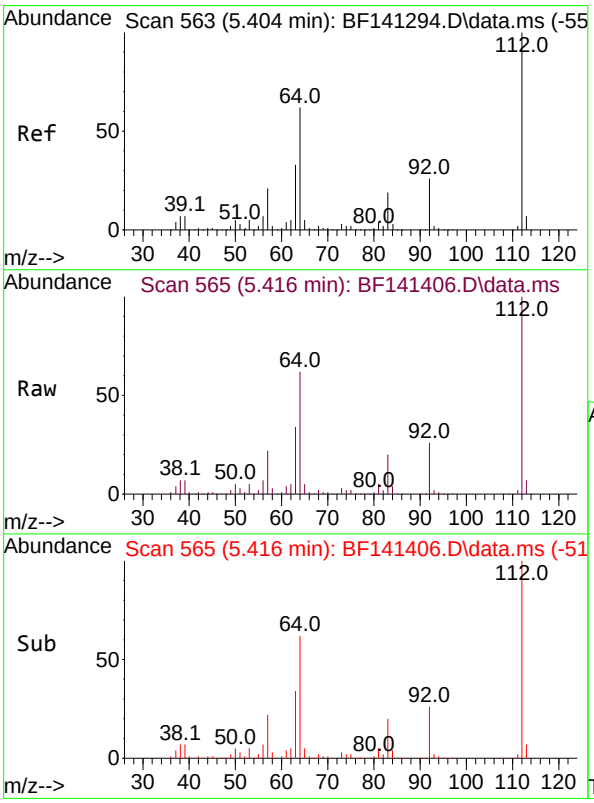
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.017 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion:152 Resp: 94457

Ion	Ratio	Lower	Upper
152	100		
150	158.3	125.9	188.9
115	64.2	49.7	74.5

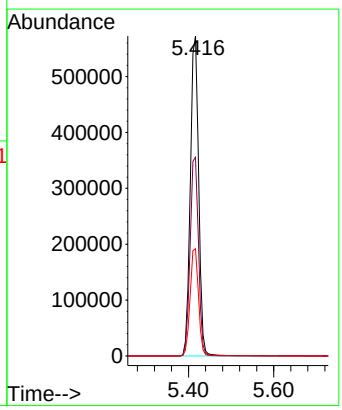


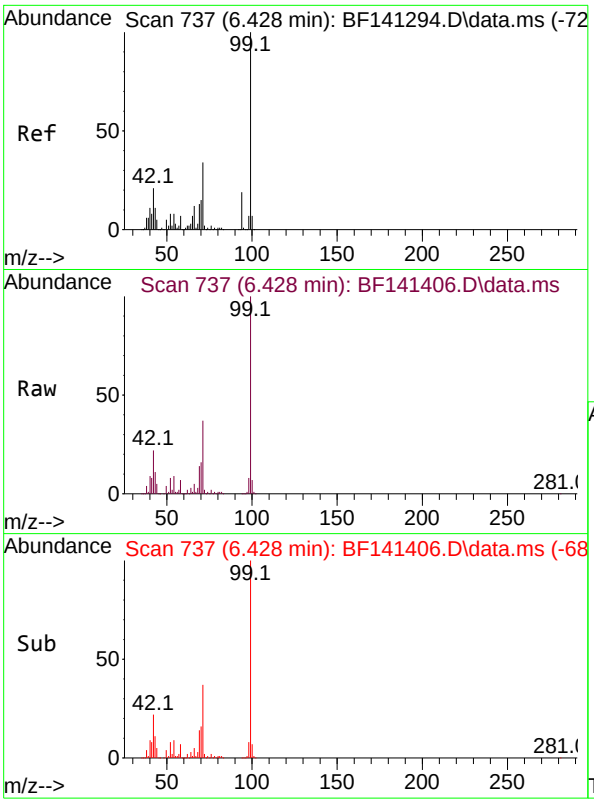


#5
2-Fluorophenol
Concen: 126.082 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:112 Resp: 775752

Ion	Ratio	Lower	Upper
112	100		
64	62.1	49.8	74.8
63	33.5	26.1	39.1



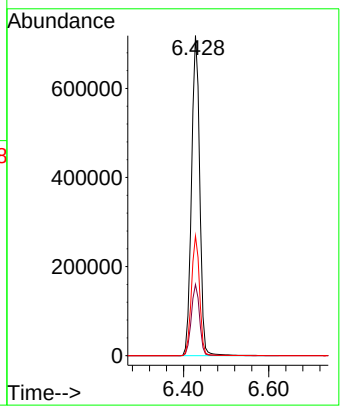


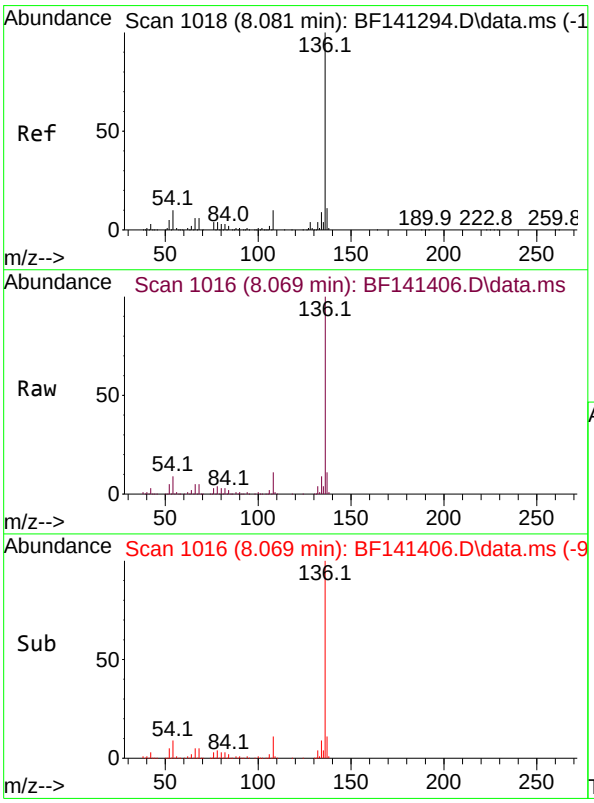
#7
Phenol-d6
Concen: 122.654 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion: 99 Resp: 960023

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.1	25.7
71	37.4	26.9	40.3

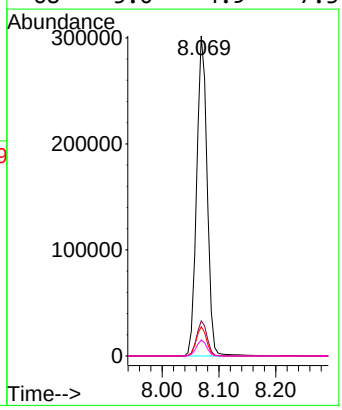


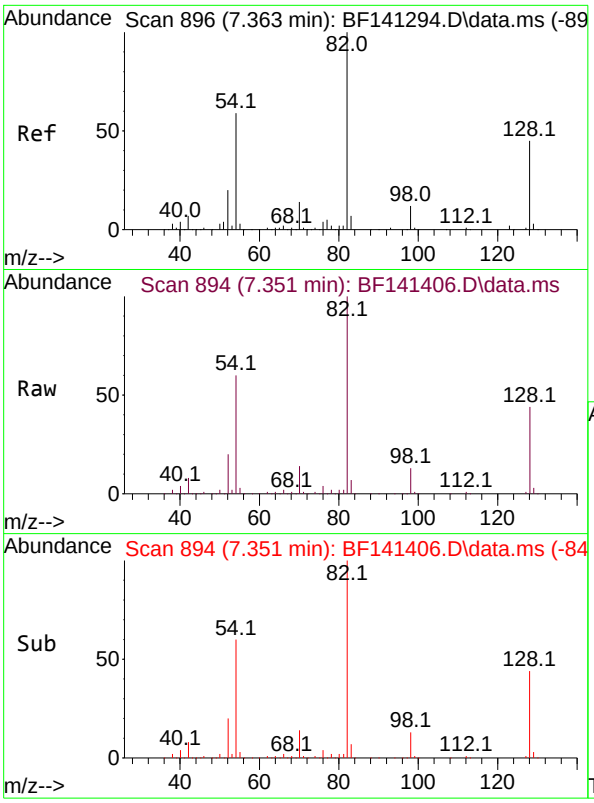


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:136 Resp: 389015

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	9.2	7.8	11.8
68	5.0	4.9	7.3



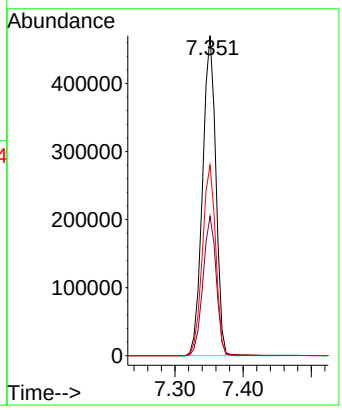


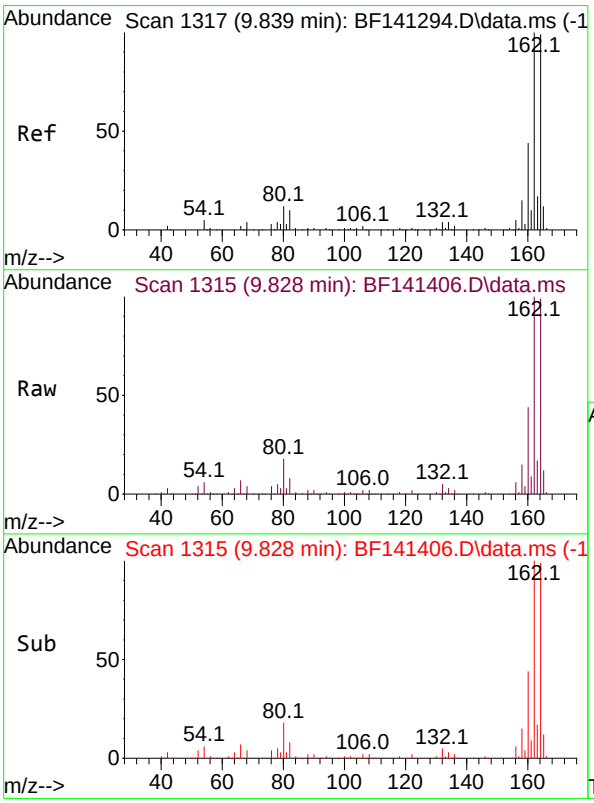
#23
Nitrobenzene-d5
Concen: 86.461 ng
RT: 7.351 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion: 82 Resp: 638025

Ion	Ratio	Lower	Upper
82	100		
128	43.6	35.7	53.5
54	59.5	47.1	70.7

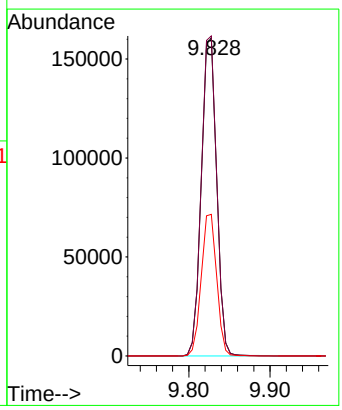


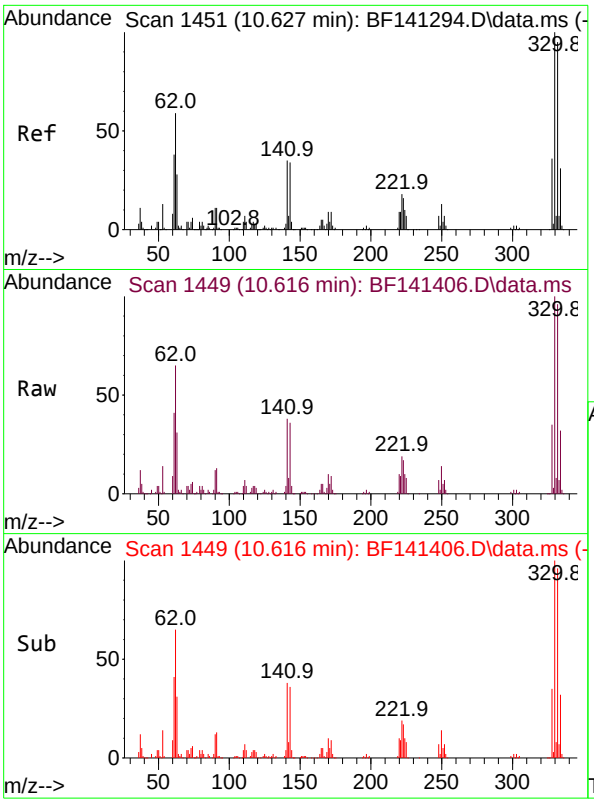


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:164 Resp: 210477

Ion	Ratio	Lower	Upper
164	100		
162	100.7	80.6	121.0
160	44.6	35.8	53.6



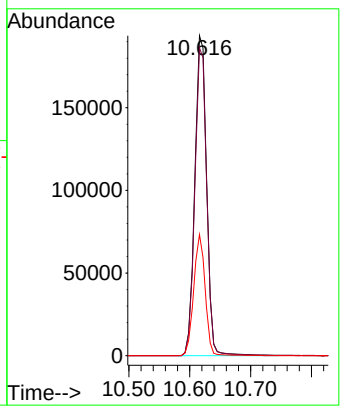


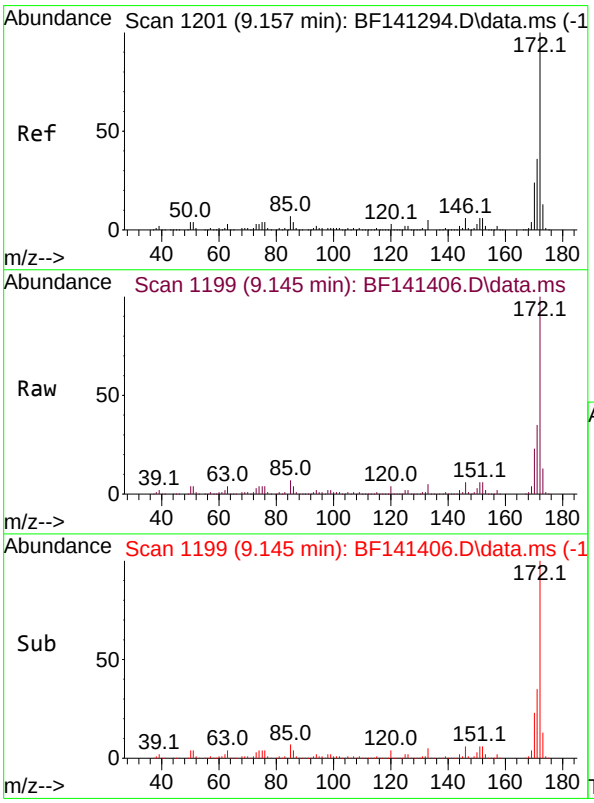
#42
2,4,6-Tribromophenol
Concen: 135.611 ng
RT: 10.616 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion:330 Resp: 261673

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.1	114.1
141	36.7	28.8	43.2

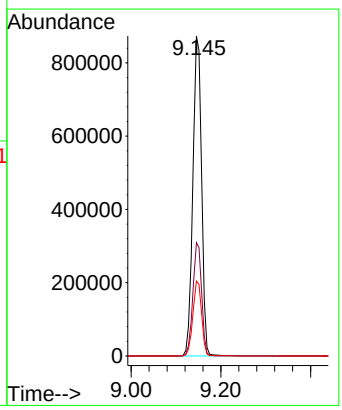


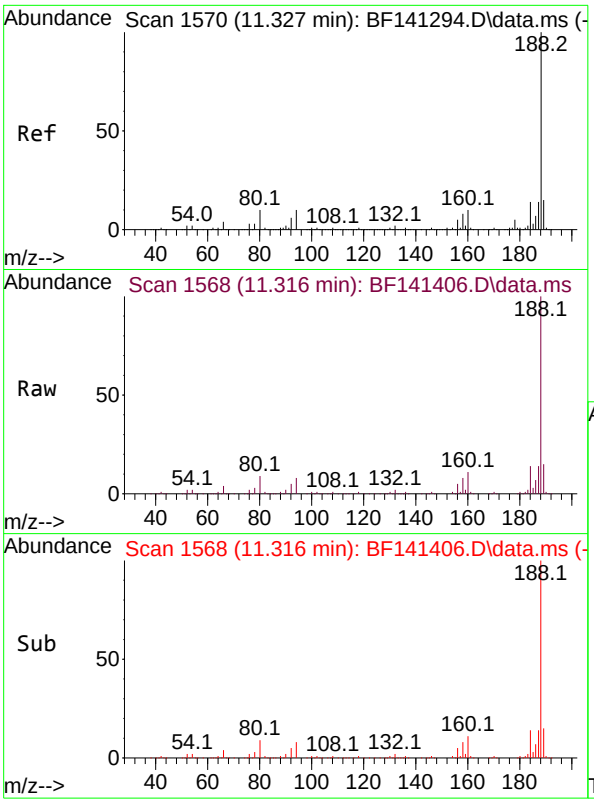


#45
2-Fluorobiphenyl
Concen: 86.232 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:172 Resp: 1179184

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.4	19.0	28.6



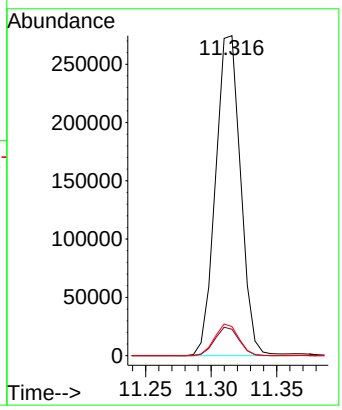


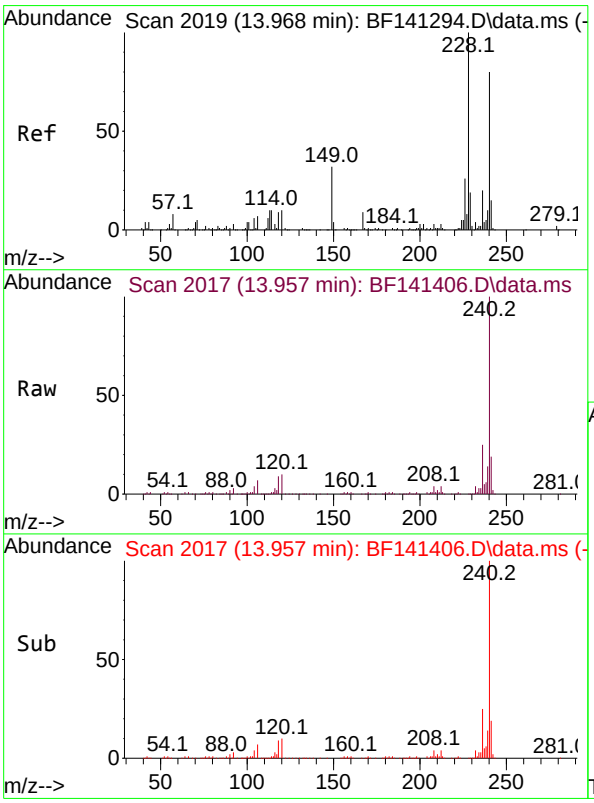
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion:188 Resp: 363737

Ion	Ratio	Lower	Upper
188	100		
94	8.3	7.8	11.6
80	9.1	8.2	12.4

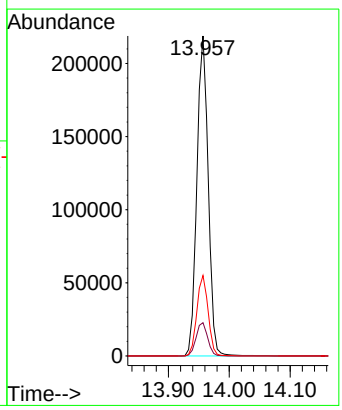


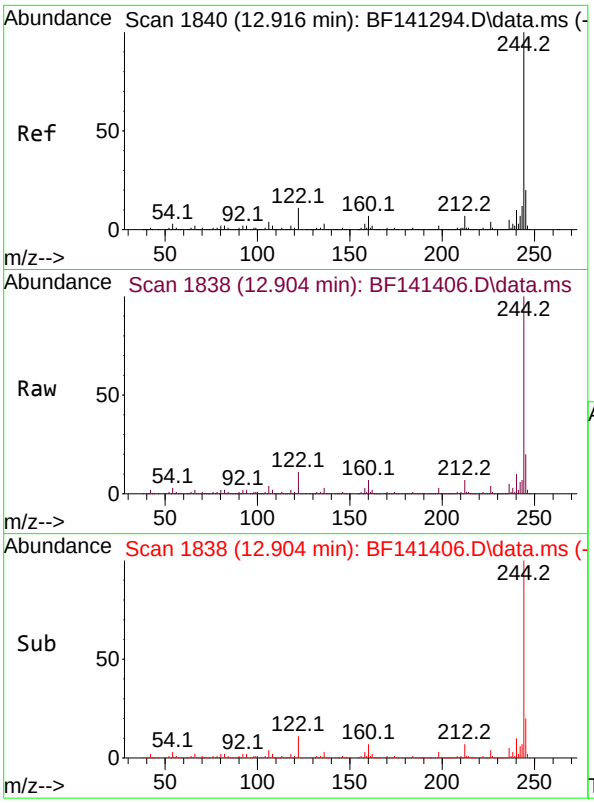


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:240 Resp: 282057

Ion	Ratio	Lower	Upper
240	100		
120	10.4	10.0	15.0
236	25.2	19.7	29.5



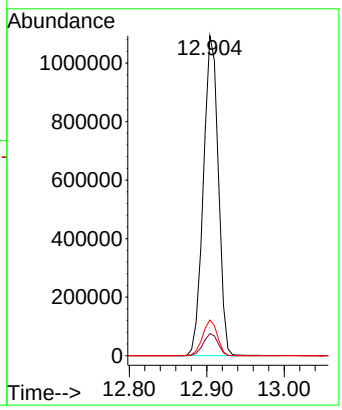


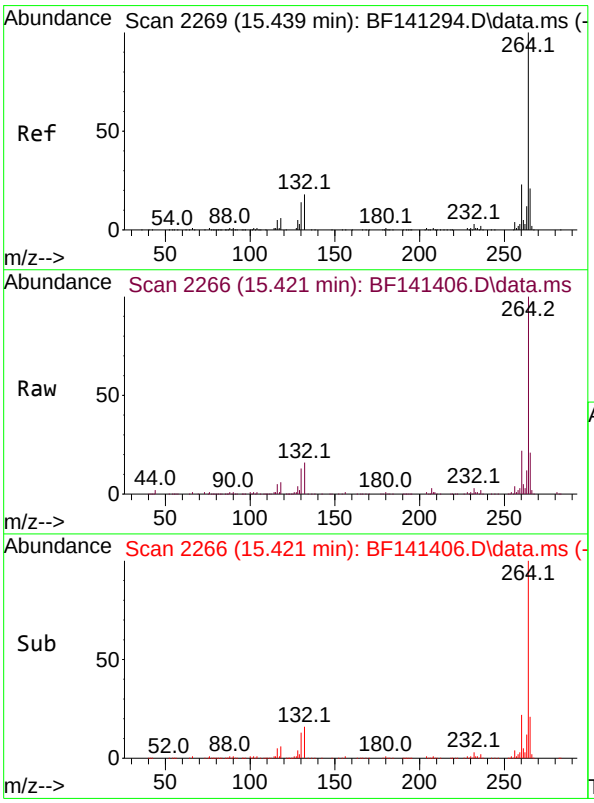
#79
Terphenyl-d14
Concen: 80.109 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Instrument :
BNA_F
ClientSampleId :
PB166356TB

Tgt Ion:244 Resp: 1465153

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	11.2	8.8	13.2

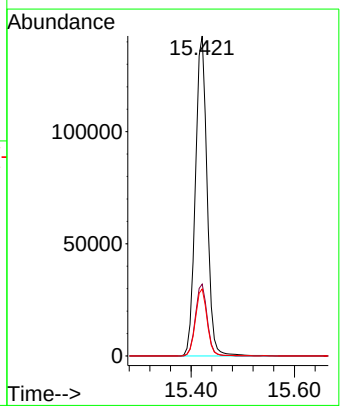




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141406.D
Acq: 04 Feb 2025 14:13

Tgt Ion:264 Resp: 223254

Ion	Ratio	Lower	Upper
264	100		
260	22.4	18.6	27.8
265	21.0	16.7	25.1



Raw Data: **BF141378.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.2-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-04	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141378.D	1	01/31/25 10:29	02/03/25 19:31	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	138		10 - 139	92%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	106		49 - 133	106%	SPK: 100
321-60-8	2-Fluorobiphenyl	102		52 - 132	102%	SPK: 100
118-79-6	2,4,6-Tribromophenol	166		44 - 137	110%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		48 - 125	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	87000	6.793			
1146-65-2	Naphthalene-d8	349000	8.075			
15067-26-2	Acenaphthene-d10	188000	9.828			
1517-22-2	Phenanthrene-d10	314000	11.316			
1719-03-5	Chrysene-d12	222000	13.957			
1520-96-3	Perylene-d12	152000	15.415			

Raw Data: **BF141378.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-51.2-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-04	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141378.D	1	01/31/25 10:29	02/03/25 19:31	PB166426

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\BF020325\
Data File : BF141378.D
Acq On : 03 Feb 2025 19:31
Operator : RC/JU
Sample : Q1235-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Quant Time: Feb 04 00:18:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

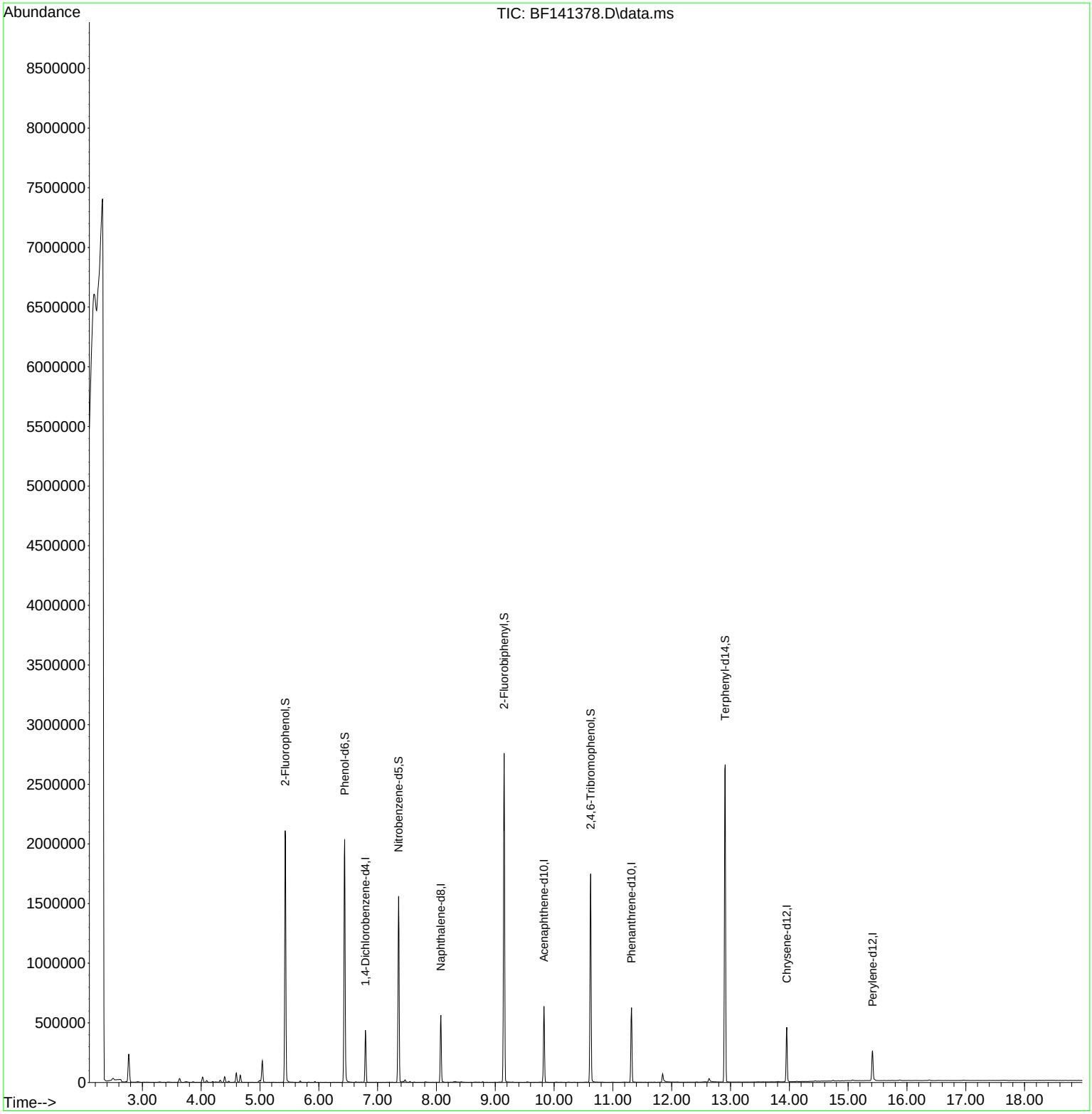
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	86999	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	348940	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	188071	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	314025	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	221716	20.000	ng	#-0.02
86) Perylene-d12	15.415	264	151667	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	782942	138.160	ng	0.02
7) Phenol-d6	6.440	99	936158	129.858	ng	0.00
23) Nitrobenzene-d5	7.357	82	700542	105.835	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	285652	165.674	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1248913	102.212	ng	-0.01
79) Terphenyl-d14	12.910	244	1387124	96.484	ng	0.00
Target Compounds						Qvalue

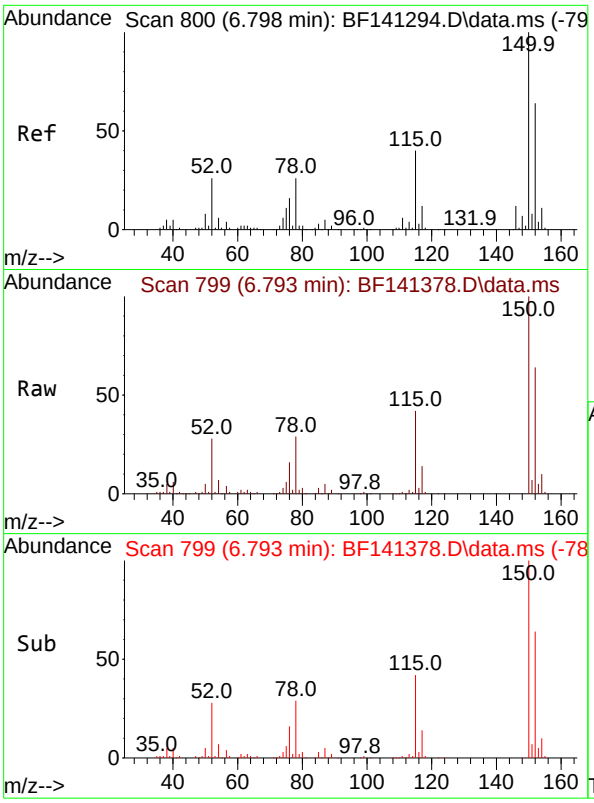
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141378.D
Acq On : 03 Feb 2025 19:31
Operator : RC/JU
Sample : Q1235-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Quant Time: Feb 04 00:18:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



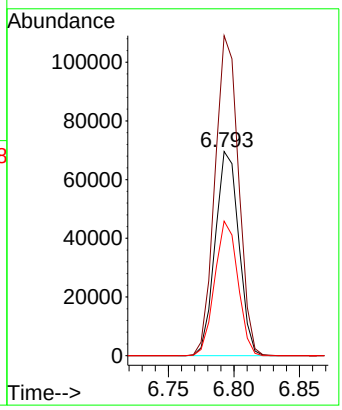


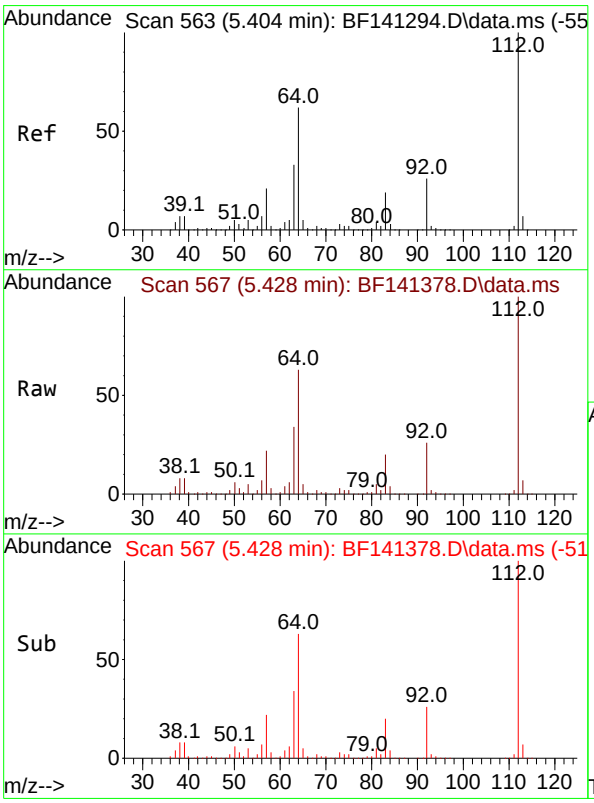
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion:152 Resp: 86999

Ion	Ratio	Lower	Upper
152	100		
150	156.8	125.9	188.9
115	65.9	49.7	74.5

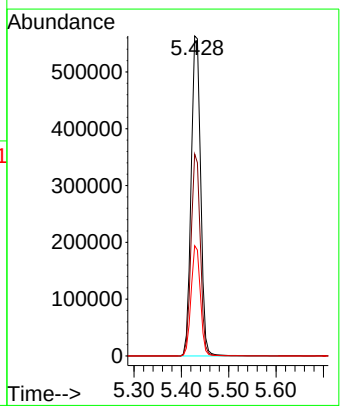


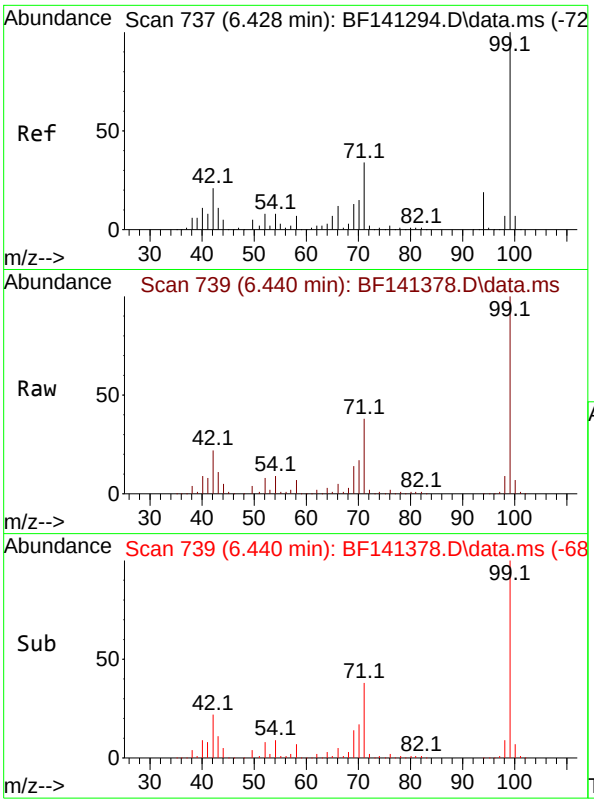


#5
2-Fluorophenol
Concen: 138.160 ng
RT: 5.428 min Scan# 567
Delta R.T. 0.018 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:112 Resp: 782942

Ion	Ratio	Lower	Upper
112	100		
64	63.1	49.8	74.8
63	34.4	26.1	39.1



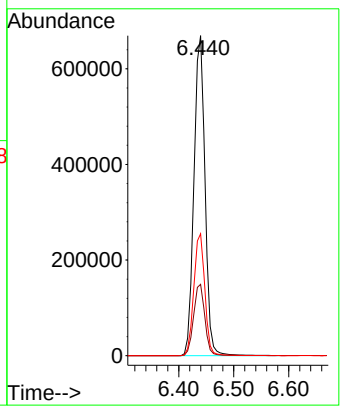


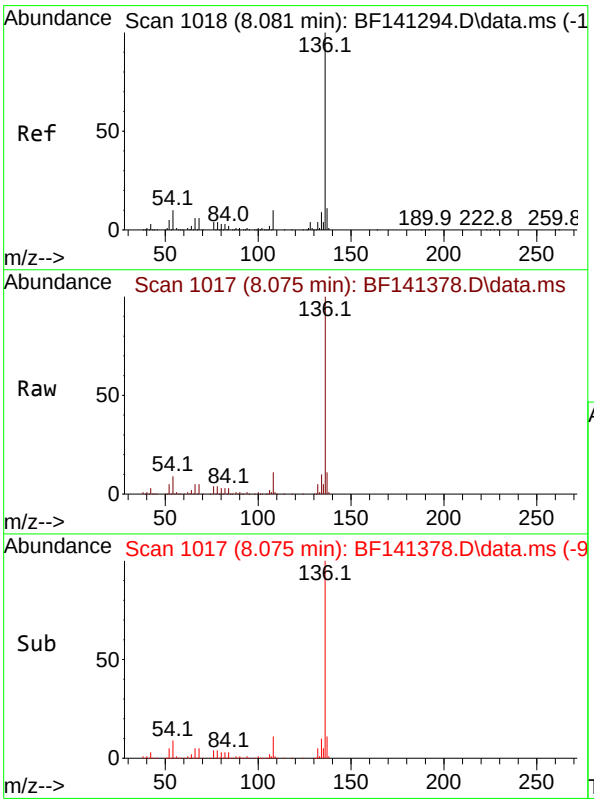
#7
Phenol-d6
Concen: 129.858 ng
RT: 6.440 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion: 99 Resp: 936158

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.1	25.7
71	38.1	26.9	40.3

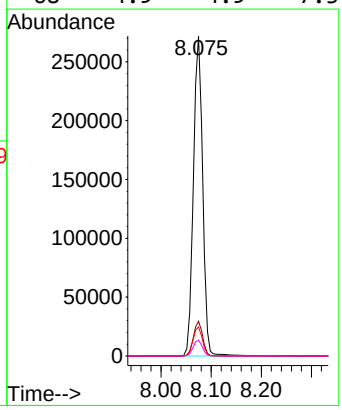


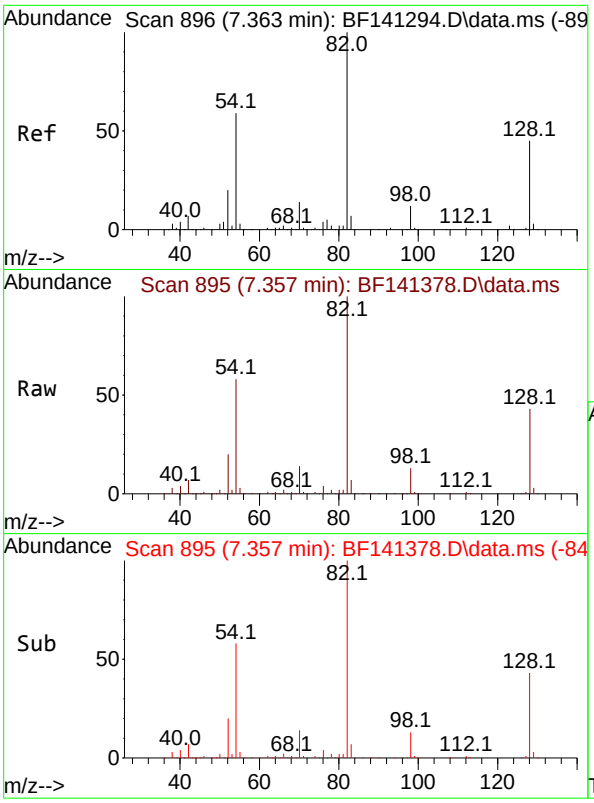


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:136 Resp: 348940

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.1	7.8	11.8
68	4.9	4.9	7.3



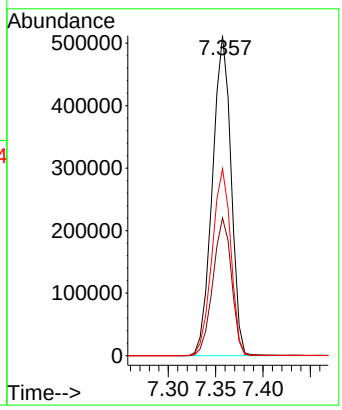


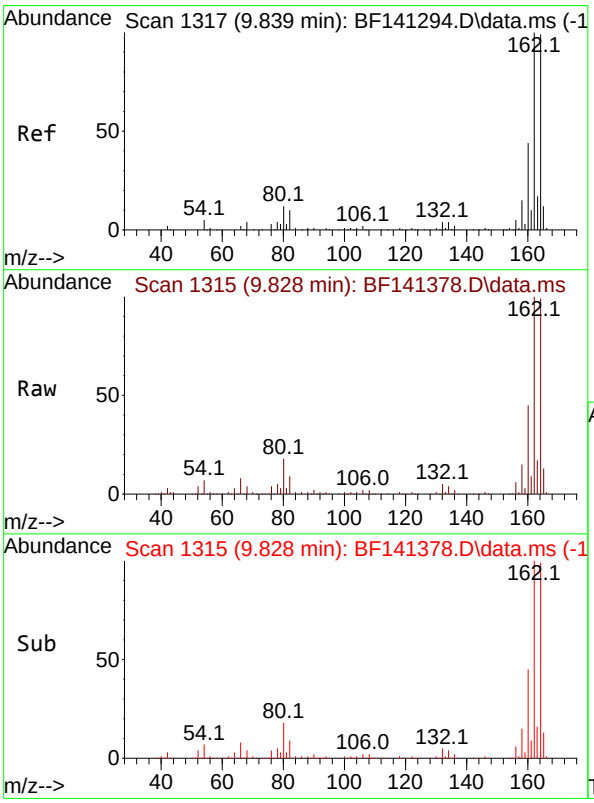
#23
Nitrobenzene-d5
Concen: 105.835 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion: 82 Resp: 700542

Ion	Ratio	Lower	Upper
82	100		
128	43.1	35.7	53.5
54	58.4	47.1	70.7

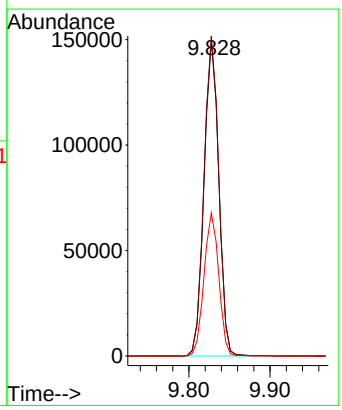


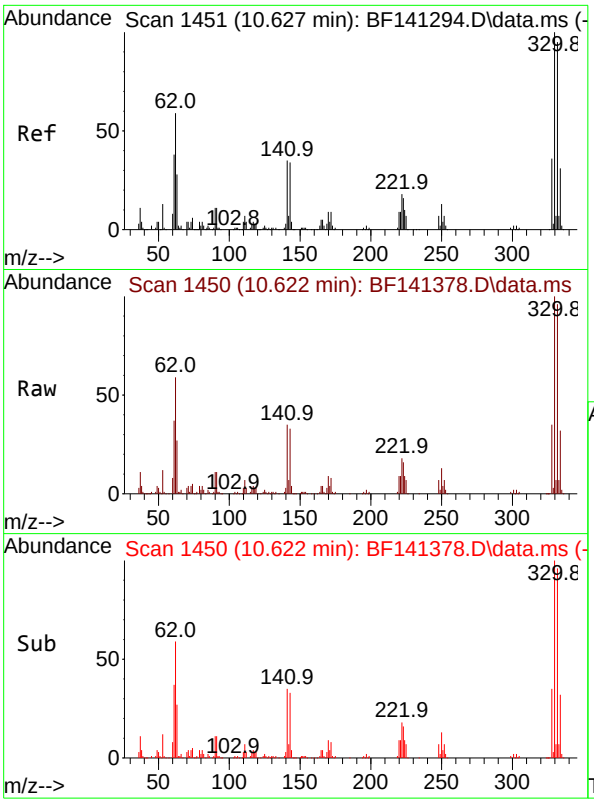


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:164 Resp: 188071

Ion	Ratio	Lower	Upper
164	100		
162	101.5	80.6	121.0
160	45.4	35.8	53.6



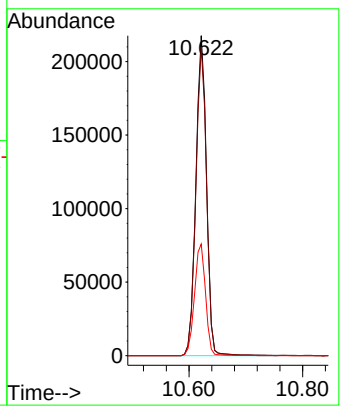


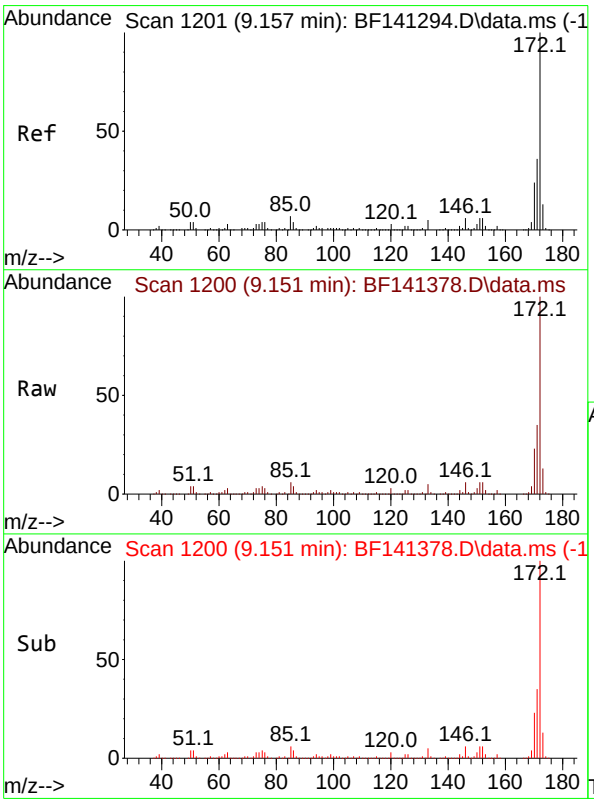
#42
2,4,6-Tribromophenol
Concen: 165.674 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion:330 Resp: 285652

Ion	Ratio	Lower	Upper
330	100		
332	96.5	76.1	114.1
141	36.2	28.8	43.2

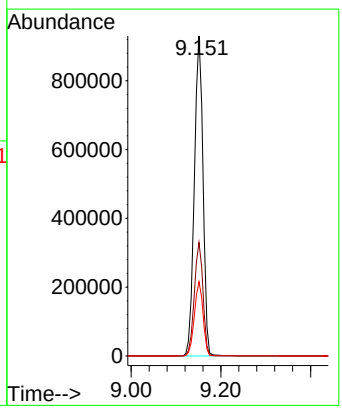


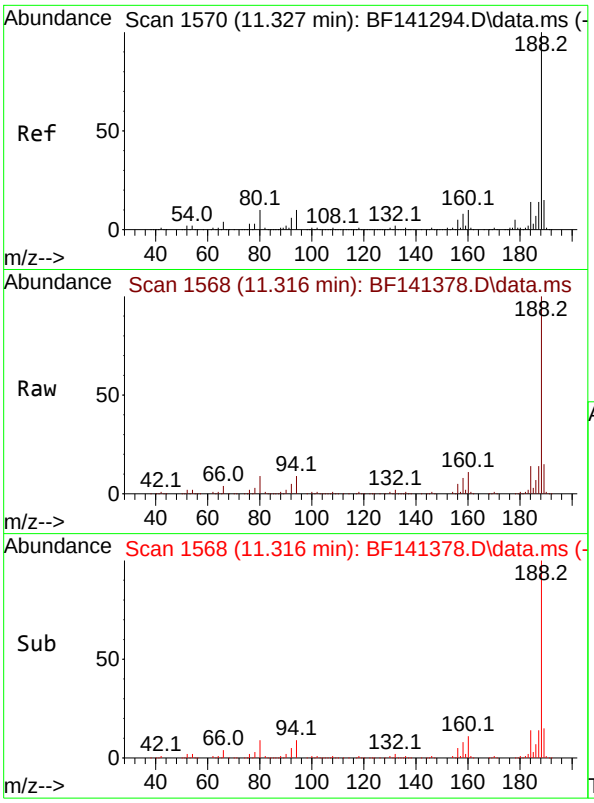


#45
2-Fluorobiphenyl
Concen: 102.212 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:172 Resp: 1248913

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.2	19.0	28.6



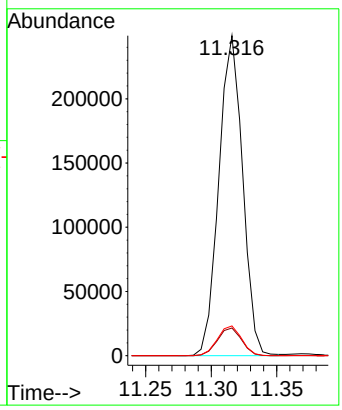


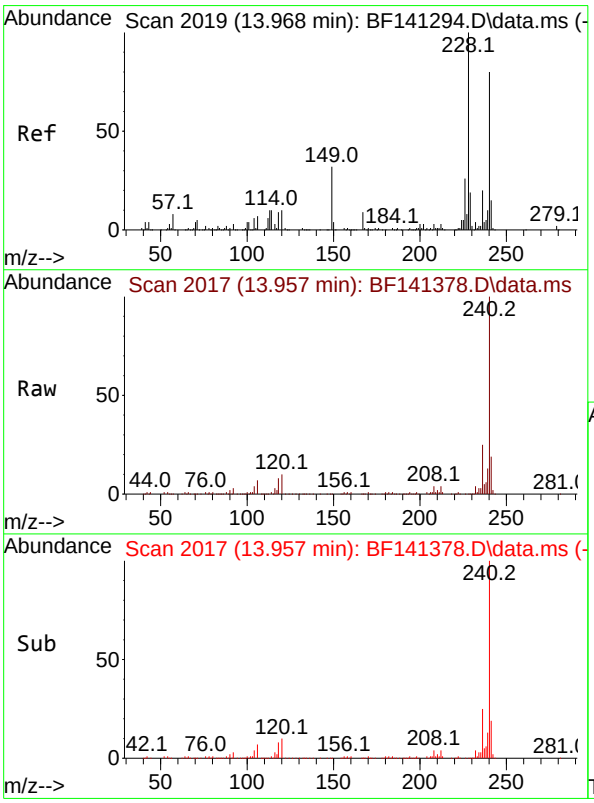
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion:188 Resp: 314025

Ion	Ratio	Lower	Upper
188	100		
94	8.7	7.8	11.6
80	9.3	8.2	12.4

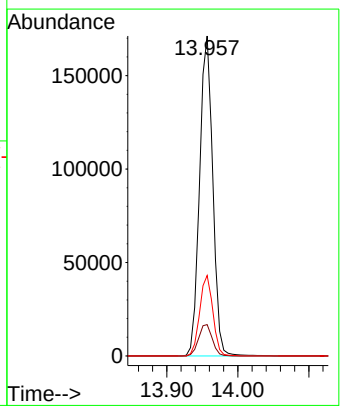


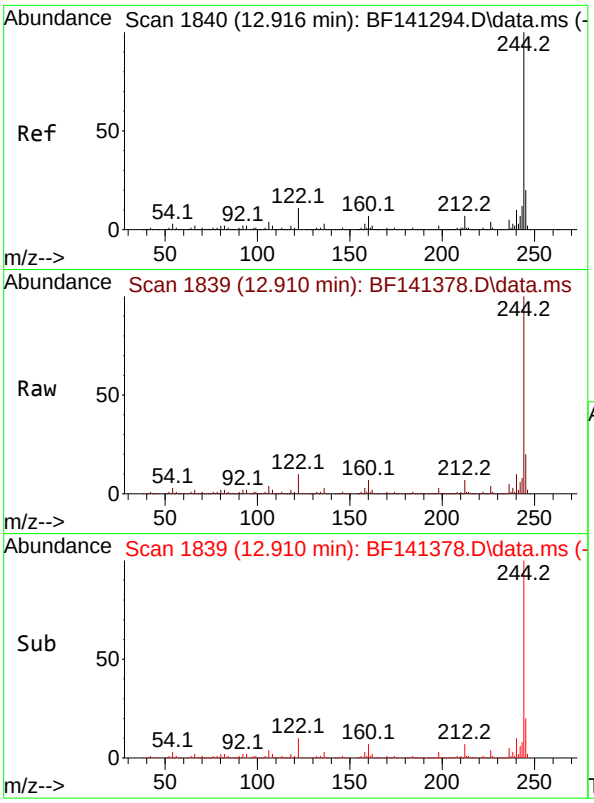


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.018 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:240 Resp: 221716

Ion	Ratio	Lower	Upper
240	100		
120	9.8	10.0	15.0#
236	25.1	19.7	29.5



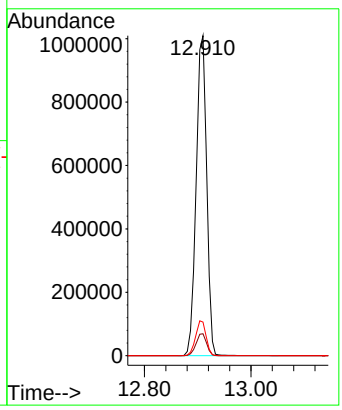


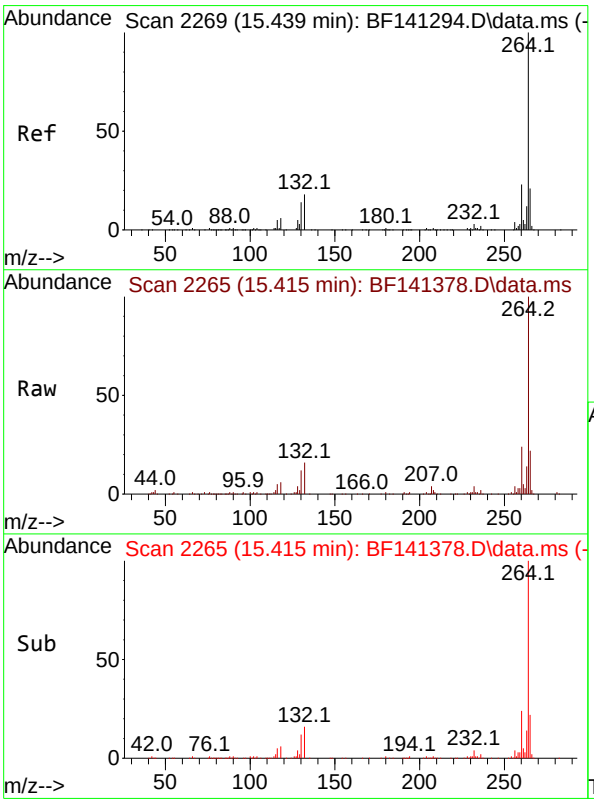
#79
Terphenyl-d14
Concen: 96.484 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Instrument :
BNA_F
ClientSampleId :
JPP-51.2-012925

Tgt Ion:244 Resp: 1387124

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	10.5	8.8	13.2

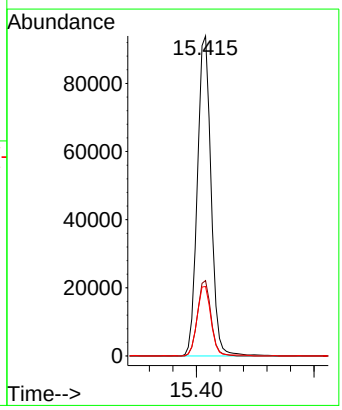




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. -0.024 min
Lab File: BF141378.D
Acq: 03 Feb 2025 19:31

Tgt Ion:264 Resp: 151667

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	27.8
265	21.7	16.7	25.1



Raw Data: **BF141379.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-16.1-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-08	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141379.D	1	01/31/25 10:29	02/03/25 19:57	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		10 - 139	88%	SPK: 150
13127-88-3	Phenol-d6	128		10 - 134	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	101		49 - 133	101%	SPK: 100
321-60-8	2-Fluorobiphenyl	103		52 - 132	103%	SPK: 100
118-79-6	2,4,6-Tribromophenol	168		44 - 137	112%	SPK: 150
1718-51-0	Terphenyl-d14	96.1		48 - 125	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	107000	6.792			
1146-65-2	Naphthalene-d8	436000	8.075			
15067-26-2	Acenaphthene-d10	204000	9.827			
1517-22-2	Phenanthrene-d10	355000	11.316			
1719-03-5	Chrysene-d12	247000	13.957			
1520-96-3	Perylene-d12	170000	15.415			

Raw Data: **BF141379.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/30/25
Client Sample ID:	JPP-16.1-012925	SDG No.:	Q1235
Lab Sample ID:	Q1235-08	Matrix:	TCLP
Analytical Method:	SW8270	% 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
BF141379.D	1	01/31/25 10:29	02/03/25 19:57	PB166426

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\BF020325\
Data File : BF141379.D
Acq On : 03 Feb 2025 19:57
Operator : RC/JU
Sample : Q1235-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Quant Time: Feb 04 00:18:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

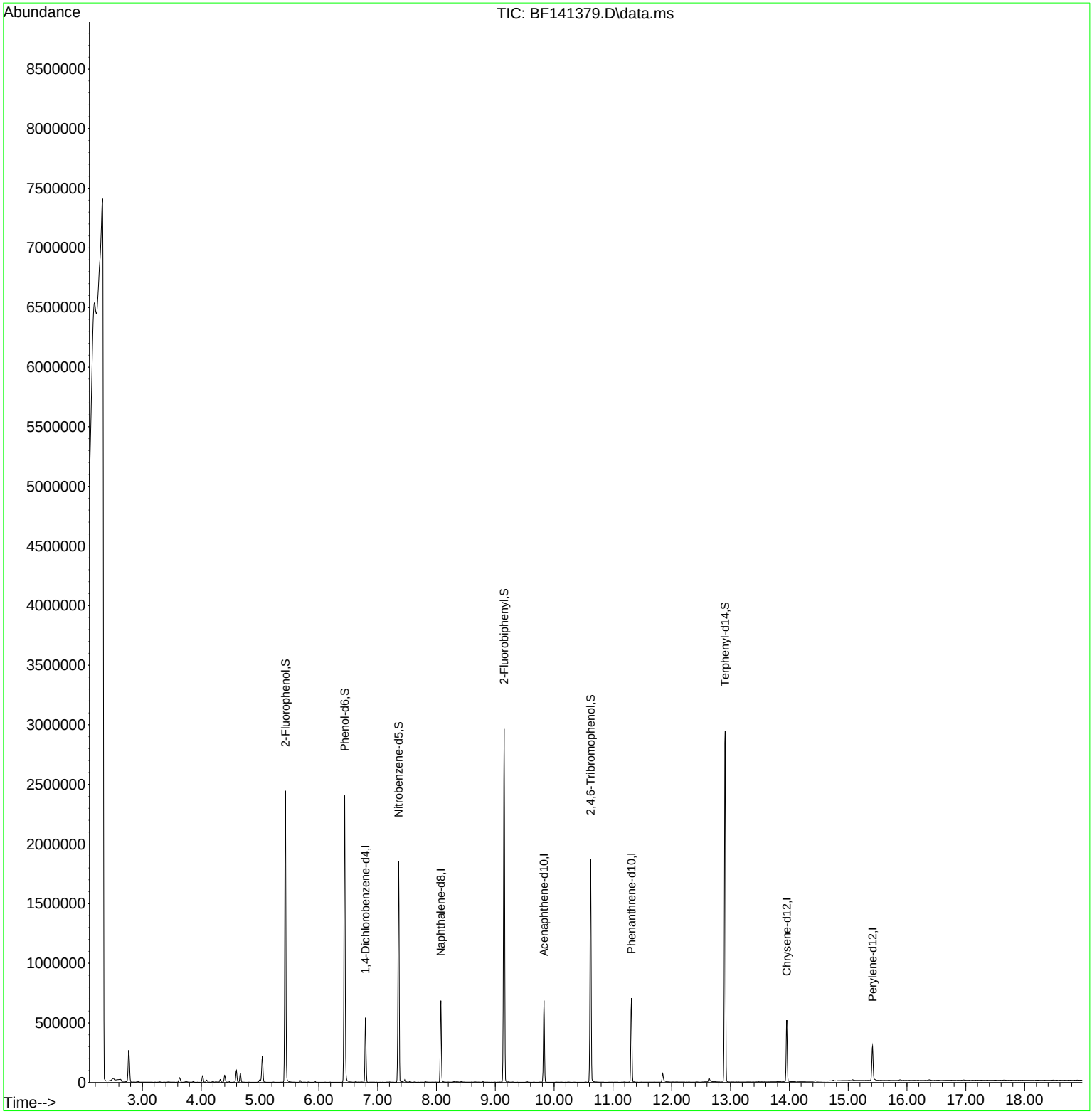
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	107174	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	436153	20.000	ng	-0.01
39) Acenaphthene-d10	9.827	164	203707	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	355432	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	246834	20.000	ng	#-0.02
86) Perylene-d12	15.415	264	169780	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	922971	132.210	ng	0.02
7) Phenol-d6	6.439	99	1138253	128.169	ng	0.00
23) Nitrobenzene-d5	7.357	82	837540	101.231	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	313714	167.984	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1359009	102.685	ng	-0.01
79) Terphenyl-d14	12.910	244	1537853	96.083	ng	0.00
Target Compounds						Qvalue

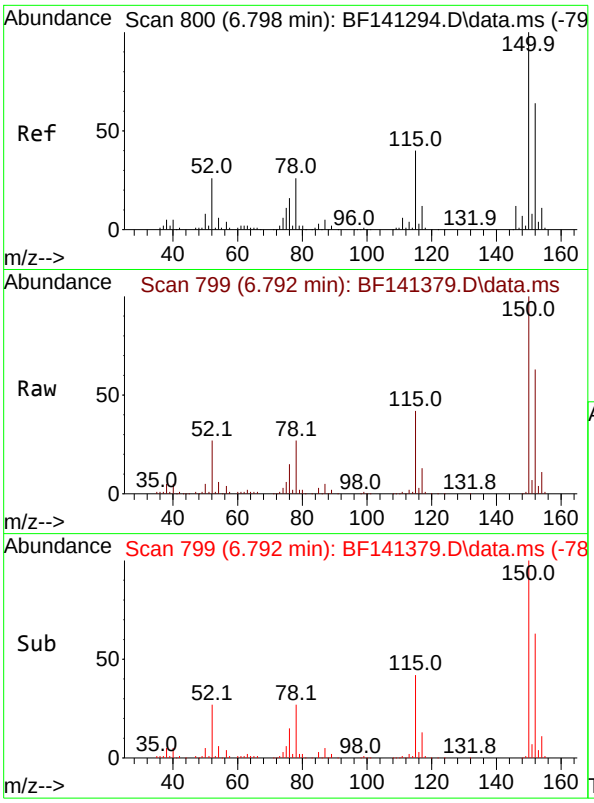
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141379.D
Acq On : 03 Feb 2025 19:57
Operator : RC/JU
Sample : Q1235-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Quant Time: Feb 04 00:18:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



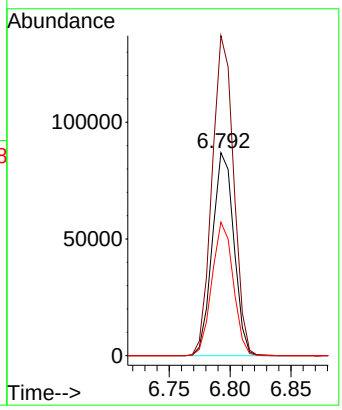


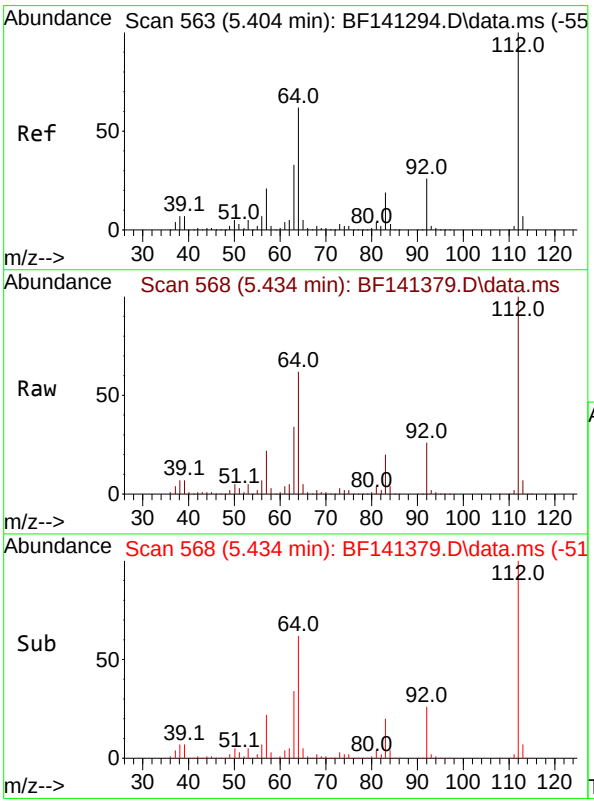
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion:152 Resp: 107174

Ion	Ratio	Lower	Upper
152	100		
150	157.6	125.9	188.9
115	65.7	49.7	74.5

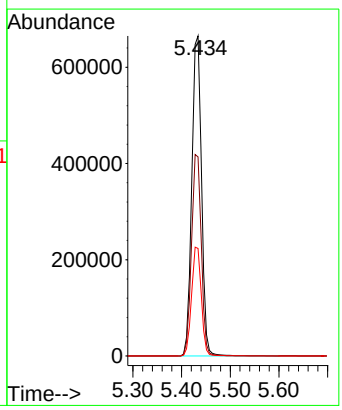


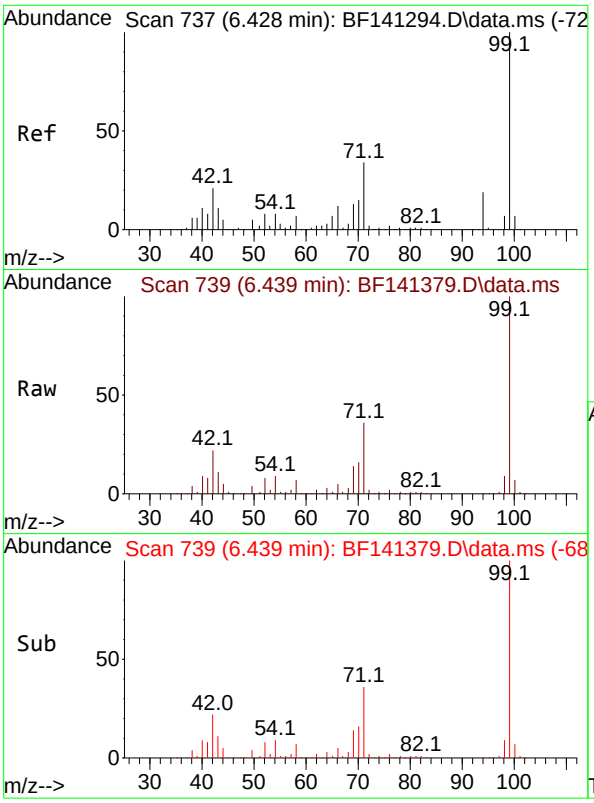


#5
2-Fluorophenol
Concen: 132.210 ng
RT: 5.434 min Scan# 568
Delta R.T. 0.023 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:112 Resp: 922971

Ion	Ratio	Lower	Upper
112	100		
64	62.2	49.8	74.8
63	33.6	26.1	39.1



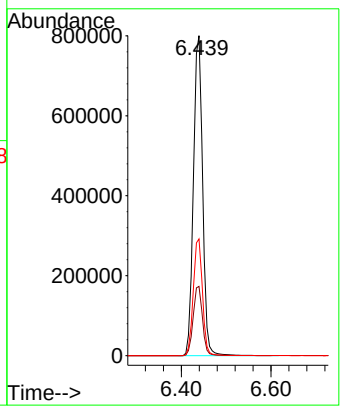


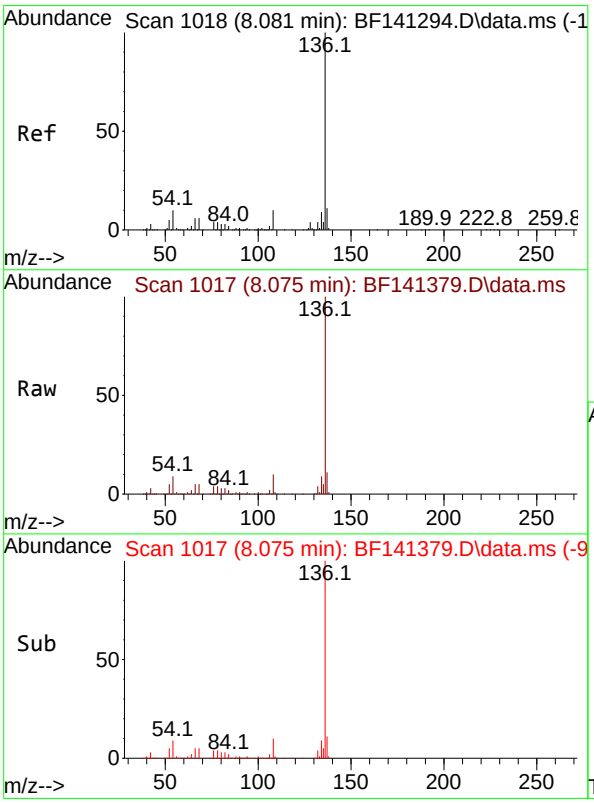
#7
Phenol-d6
Concen: 128.169 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion: 99 Resp: 1138253

Ion	Ratio	Lower	Upper
99	100		
42	21.7	17.1	25.7
71	36.5	26.9	40.3

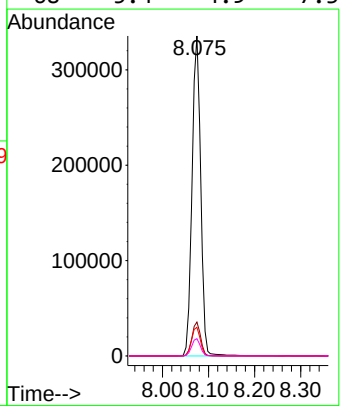


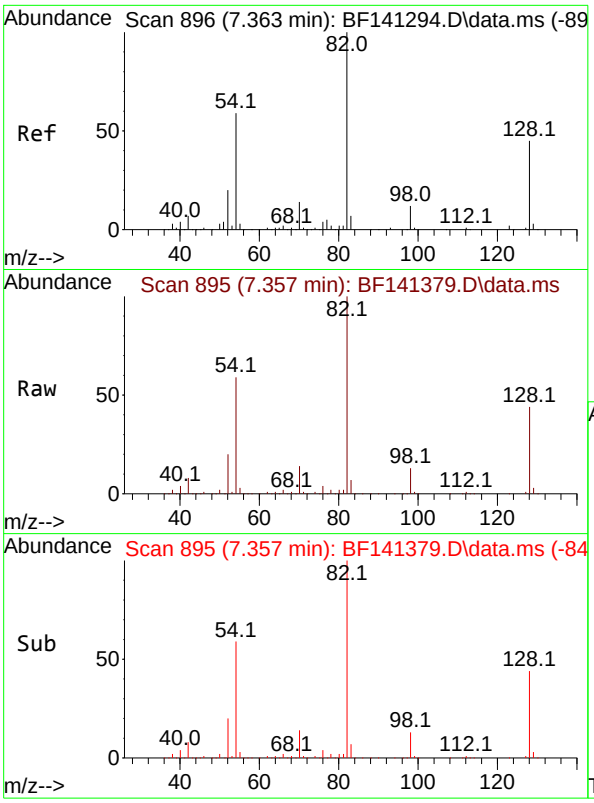


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:136 Resp: 436153

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	9.0	7.8	11.8
68	5.4	4.9	7.3



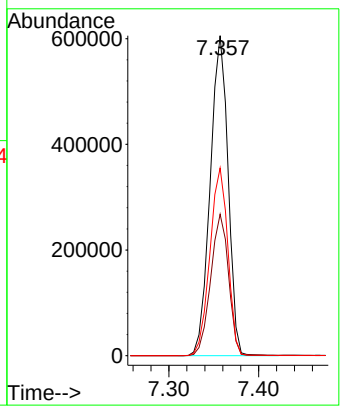


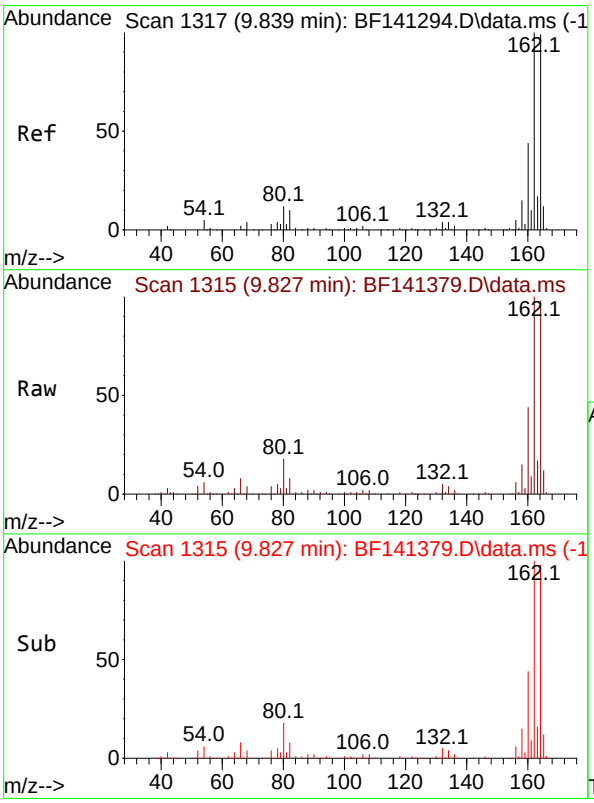
#23
Nitrobenzene-d5
Concen: 101.231 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion: 82 Resp: 837540

Ion	Ratio	Lower	Upper
82	100		
128	44.2	35.7	53.5
54	58.7	47.1	70.7

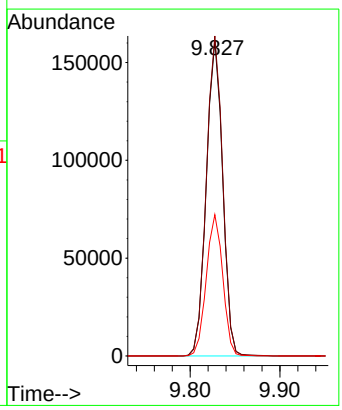


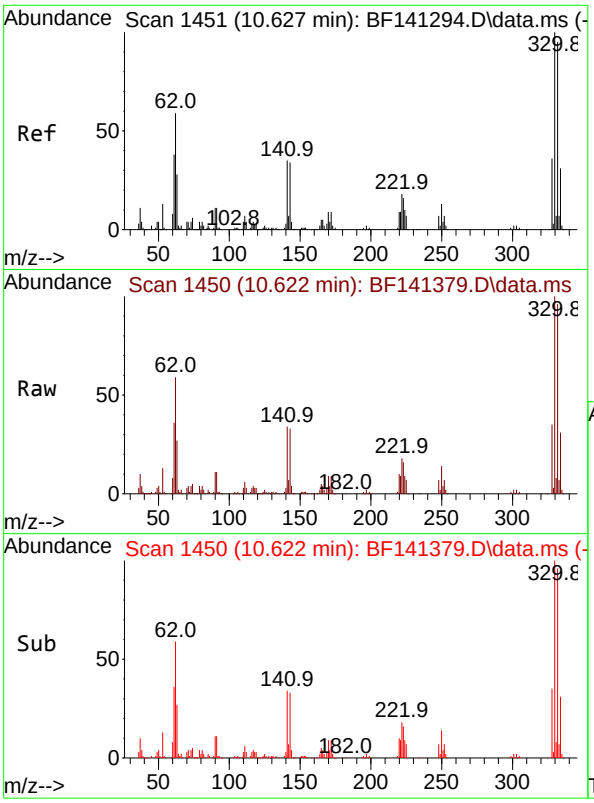


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:164 Resp: 203707

Ion	Ratio	Lower	Upper
164	100		
162	101.6	80.6	121.0
160	44.9	35.8	53.6



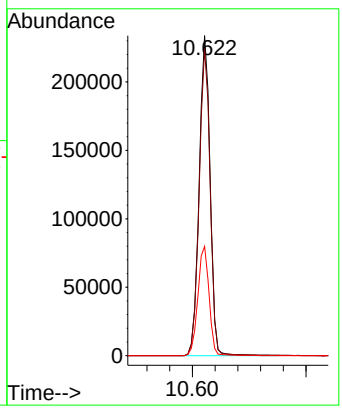


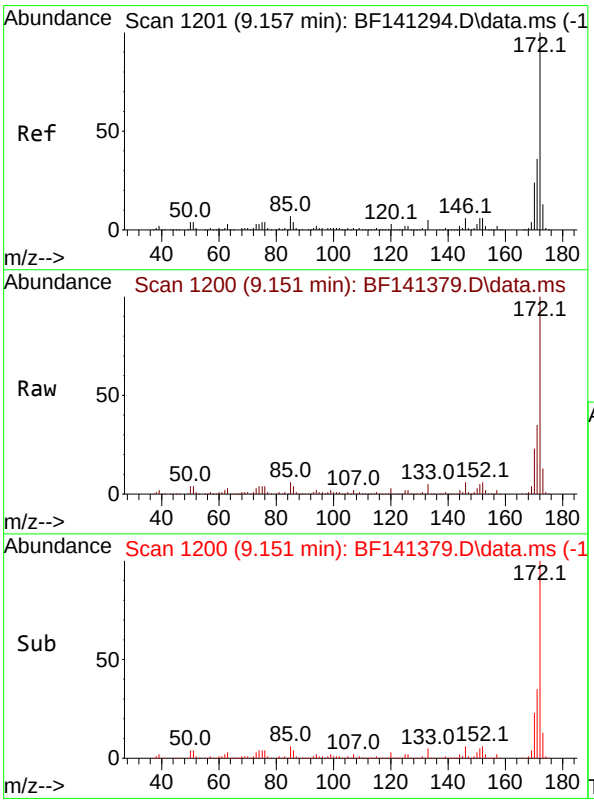
#42
2,4,6-Tribromophenol
Concen: 167.984 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion:330 Resp: 313714

Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.1	114.1
141	35.1	28.8	43.2

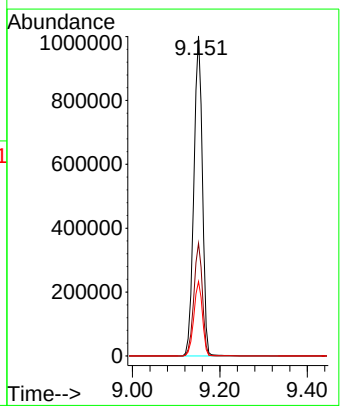


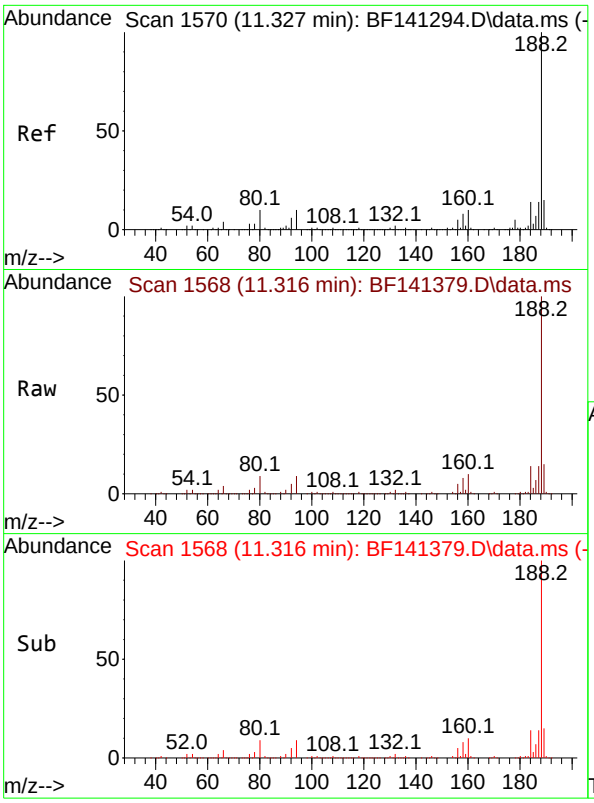


#45
2-Fluorobiphenyl
Concen: 102.685 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:172 Resp: 1359009

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.8	43.2
170	23.3	19.0	28.6



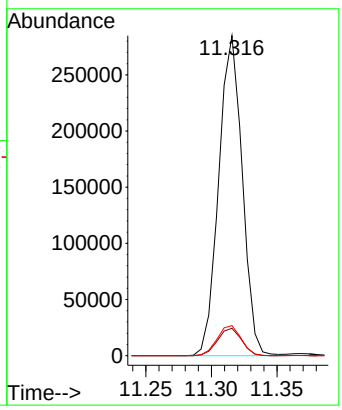


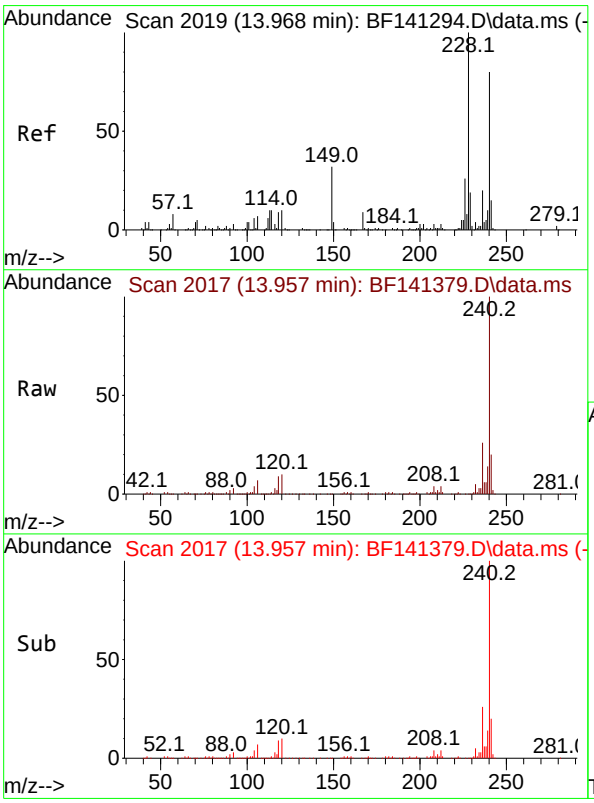
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion:188 Resp: 355432

Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.8	11.6
80	9.4	8.2	12.4

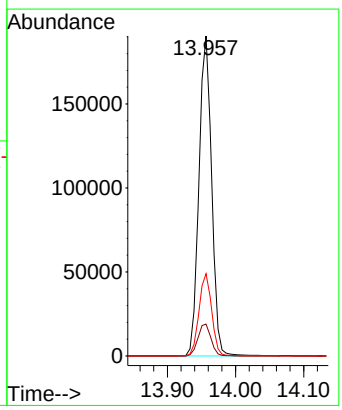


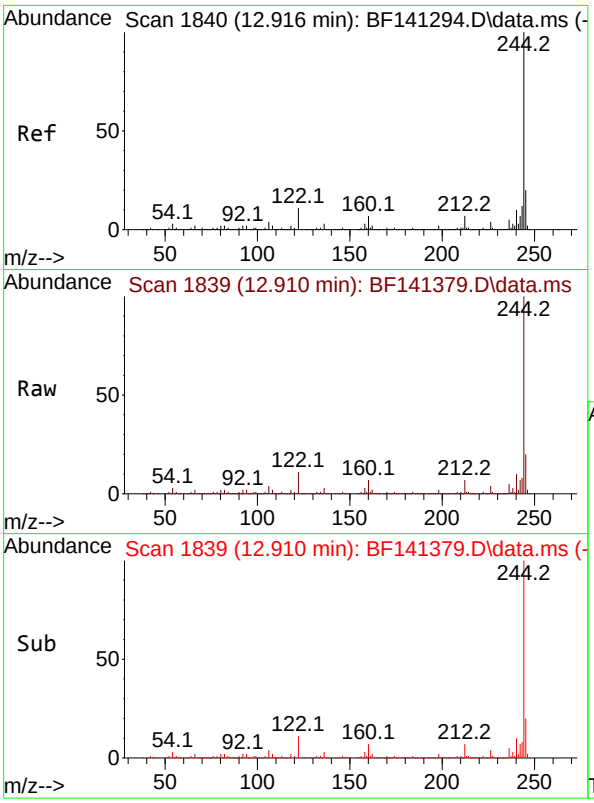


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.018 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:240 Resp: 246834

Ion	Ratio	Lower	Upper
240	100		
120	9.9	10.0	15.0#
236	25.7	19.7	29.5



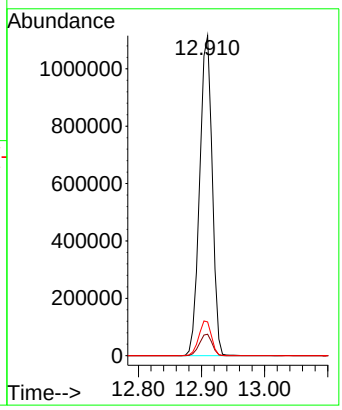


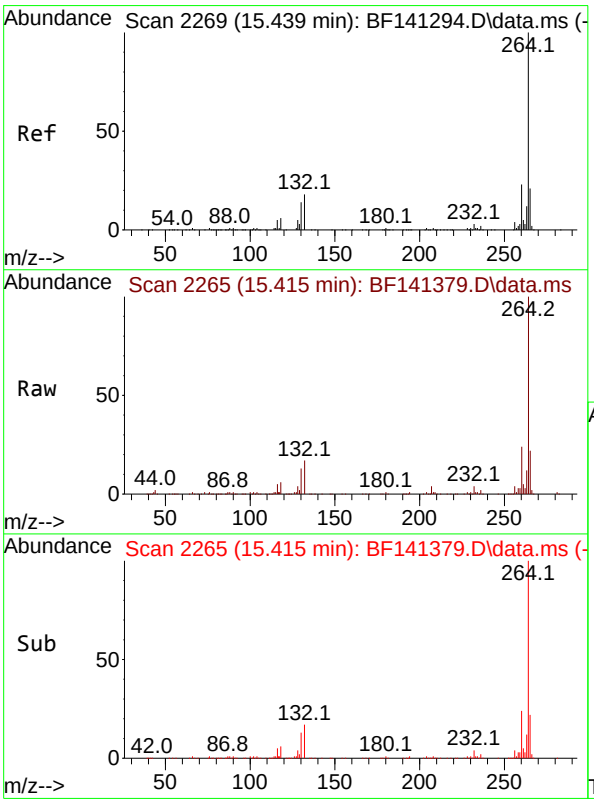
#79
Terphenyl-d14
Concen: 96.083 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Instrument :
BNA_F
ClientSampleId :
JPP-16.1-012925

Tgt Ion:244 Resp: 1537853

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	10.6	8.8	13.2

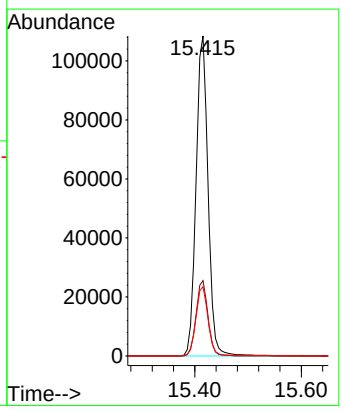




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. -0.024 min
Lab File: BF141379.D
Acq: 03 Feb 2025 19:57

Tgt Ion:264 Resp: 169780

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	27.8
265	21.6	16.7	25.1



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141290.D 5 =BF141291.D 10 =BF141292.D 20 =BF141293.D 40 =BF141294.D 50 =BF141295.D 60 =BF141296.D 80 =BF1412
97.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.600	0.603	0.597	0.538	0.574	0.569	0.530	0.573	5.19
3)		Pyridine		1.364	1.410	1.450	1.320	1.394	1.404	1.322	1.380	3.46
4)		n-Nitrosodimet...		0.770	0.789	0.824	0.751	0.803	0.813	0.771	0.789	3.32
5)	S	2-Fluorophenol		1.428	1.391	1.402	1.201	1.267	1.268	1.163	1.303	8.03
6)		Aniline		1.480	1.511	1.542	1.359	1.404	1.350	1.174	1.403	8.93
7)	S	Phenol-d6		1.841	1.800	1.743	1.520	1.611	1.611	1.475	1.657	8.47
8)		2-Chlorophenol		1.535	1.510	1.487	1.297	1.353	1.355	1.237	1.396	8.24
9)		Benzaldehyde		1.166	1.130	1.104	0.895	0.861	0.837	0.727	0.960	17.81
10)	C	Phenol		1.938	1.879	1.884	1.643	1.696	1.704	1.554	1.757	8.22
11)		bis(2-Chloroet...		1.478	1.413	1.426	1.232	1.299	1.329	1.253	1.347	6.93
12)		1,3-Dichlorobe...		1.697	1.668	1.648	1.429	1.499	1.474	1.362	1.540	8.49
13)	C	1,4-Dichlorobe...		1.719	1.663	1.659	1.432	1.502	1.487	1.365	1.547	8.66
14)		1,2-Dichlorobe...		1.629	1.609	1.565	1.338	1.392	1.366	1.240	1.448	10.46
15)		Benzyl Alcohol		1.138	1.201	1.216	1.082	1.137	1.125	1.028	1.133	5.72
16)		2,2'-oxybis(1-...		2.533	2.484	2.495	2.189	2.296	2.287	2.112	2.342	7.01
17)		2-Methylphenol		1.237	1.175	1.210	1.042	1.107	1.120	1.053	1.135	6.62
18)		Hexachloroethane		0.609	0.612	0.610	0.530	0.560	0.561	0.513	0.571	7.09
19)	P	n-Nitroso-di-n...	1.084	1.052	1.060	1.032	0.895	0.936	0.945	0.874	0.985	8.27
20)		3+4-Methylphenols		1.561	1.564	1.502	1.287	1.331	1.323	1.186	1.393	10.65
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.547	0.523	0.517	0.436	0.449	0.443	0.412	0.475	11.06
23)	S	Nitrobenzene-d5		0.405	0.396	0.406	0.354	0.373	0.373	0.349	0.379	6.14
24)		Nitrobenzene		0.418	0.411	0.420	0.371	0.385	0.389	0.358	0.393	6.14
25)		Isophorone		0.698	0.685	0.694	0.611	0.640	0.648	0.615	0.656	5.62
26)	C	2-Nitrophenol		0.176	0.187	0.199	0.177	0.189	0.191	0.179	0.185	4.66
27)		2,4-Dimethylph...		0.244	0.239	0.249	0.224	0.235	0.238	0.223	0.236	4.12
28)		bis(2-Chloroet...		0.454	0.440	0.445	0.389	0.405	0.411	0.384	0.418	6.70
29)	C	2,4-Dichloroph...		0.307	0.300	0.312	0.271	0.284	0.286	0.262	0.289	6.39
30)		1,2,4-Trichlor...		0.372	0.354	0.354	0.304	0.318	0.316	0.292	0.330	9.11
31)		Naphthalene		1.193	1.145	1.140	0.976	1.020	1.002	0.919	1.057	9.72
32)		Benzoic acid		0.140	0.178	0.238	0.221	0.241	0.259	0.242	0.217	19.59
33)		4-Chloroaniline		0.382	0.378	0.391	0.338	0.351	0.349	0.318	0.358	7.38
34)	C	Hexachlorobuta...		0.209	0.207	0.209	0.179	0.190	0.187	0.174	0.194	7.52
35)		Caprolactam		0.097	0.095	0.102	0.089	0.094	0.096	0.089	0.094	4.89
36)	C	4-Chloro-3-met...		0.328	0.328	0.334	0.287	0.301	0.307	0.283	0.310	6.71
37)		2-Methylnaphth...		0.755	0.732	0.724	0.624	0.643	0.639	0.583	0.672	9.68
38)		1-Methylnaphth...		0.757	0.723	0.711	0.606	0.625	0.623	0.573	0.660	10.56

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.615	0.613	0.603	0.534	0.555	0.551	0.512	0.569	7.25
41)	P	Hexachlorocycl...	0.136	0.157	0.174	0.172	0.182	0.181	0.174	0.168	9.69
42)	S	2,4,6-Tribromo...	0.198	0.198	0.198	0.173	0.175	0.179	0.163	0.183	7.98
43)	C	2,4,6-Trichlor...	0.381	0.380	0.390	0.364	0.375	0.369	0.347	0.372	3.79
44)		2,4,5-Trichlor...	0.429	0.425	0.429	0.377	0.391	0.403	0.383	0.405	5.50
45)	S	2-Fluorobiphenyl	1.597	1.464	1.398	1.184	1.202	1.168	1.083	1.299	14.48
46)		1,1'-Biphenyl	1.810	1.692	1.650	1.454	1.492	1.460	1.360	1.560	10.27
47)		2-Chloronaphth...	1.396	1.310	1.290	1.122	1.159	1.156	1.077	1.216	9.59
48)		2-Nitroaniline	0.386	0.389	0.407	0.364	0.382	0.385	0.364	0.382	3.91
49)		Acenaphthylene	1.921	1.854	1.815	1.595	1.620	1.612	1.495	1.702	9.38
50)		Dimethylphthalate	1.498	1.456	1.445	1.239	1.299	1.296	1.223	1.351	8.34
51)		2,6-Dinitrotol...	0.333	0.331	0.333	0.296	0.304	0.309	0.290	0.314	5.90
52)	C	Acenaphthene	1.361	1.300	1.291	1.128	1.170	1.180	1.079	1.216	8.46
53)		3-Nitroaniline	0.321	0.330	0.341	0.303	0.293	0.298	0.264	0.307	8.44
54)	P	2,4-Dinitrophenol		0.102	0.136	0.147	0.156	0.169	0.164	0.146	16.81
55)		Dibenzofuran	1.869	1.788	1.755	1.518	1.525	1.539	1.398	1.627	10.72
56)	P	4-Nitrophenol	0.187	0.215	0.251	0.224	0.231	0.244	0.222	0.225	9.21
57)		2,4-Dinitrotol...	0.424	0.431	0.443	0.386	0.392	0.404	0.362	0.406	7.03
58)		Fluorene	1.512	1.410	1.353	1.167	1.164	1.172	1.059	1.262	12.96
59)		2,3,4,6-Tetrac...	0.325	0.343	0.341	0.304	0.305	0.324	0.291	0.319	6.11
60)		Diethylphthalate	1.470	1.417	1.412	1.225	1.238	1.260	1.146	1.310	9.32
61)		4-Chlorophenyl...	0.738	0.694	0.659	0.567	0.565	0.571	0.522	0.617	13.04
62)		4-Nitroaniline	0.297	0.312	0.330	0.290	0.294	0.311	0.281	0.302	5.45
63)		Azobenzene	1.464	1.411	1.390	1.224	1.249	1.276	1.162	1.311	8.51
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.105	0.122	0.125	0.131	0.134	0.131	0.118	16.29
66)	c	n-Nitrosodiphe...	0.716	0.684	0.674	0.626	0.622	0.614	0.593	0.647	6.89
67)		4-Bromophenyl-...	0.235	0.234	0.234	0.217	0.218	0.220	0.210	0.224	4.57
68)		Hexachlorobenzene	0.257	0.250	0.248	0.229	0.229	0.232	0.217	0.238	6.07
69)		Atrazine	0.211	0.202	0.213	0.213	0.215	0.235	0.224	0.216	4.86
70)	C	Pentachlorophenol	0.112	0.136	0.146	0.143	0.146	0.149	0.141	0.139	9.08
71)		Phenanthrene	1.233	1.170	1.142	1.025	1.008	1.010	0.937	1.075	9.96
72)		Anthracene	1.179	1.146	1.120	1.009	0.999	0.996	0.924	1.053	9.00
73)		Carbazole	1.019	1.014	1.021	0.899	0.878	0.900	0.807	0.934	9.04
74)		Di-n-butylphth...	1.244	1.239	1.245	1.086	1.051	1.081	0.978	1.132	9.65
75)	C	Fluoranthene	1.195	1.202	1.196	1.013	0.963	0.982	0.880	1.062	12.57
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.882	0.480	0.210	0.730	0.906	0.724	0.556	0.641	38.34
78)		Pyrene	2.178	2.063	2.002	1.754	1.870	1.898	1.674	1.920	9.14
79)	S	Terphenyl-d14	1.543	1.411	1.370	1.183	1.238	1.230	1.103	1.297	11.68
80)		Butylbenzylpht...	0.686	0.690	0.739	0.626	0.657	0.688	0.610	0.671	6.49
81)		Benzo(a)anthra...	1.532	1.410	1.453	1.270	1.375	1.355	1.265	1.380	6.96
82)		3,3'-Dichlorob...	0.412	0.422	0.427	0.418	0.478	0.466	0.449	0.439	5.82
83)		Chrysene	1.332	1.325	1.342	1.136	1.267	1.243	1.210	1.265	5.98
84)		Bis(2-ethylhex...	0.882	0.903	0.956	0.785	0.831	0.834	0.764	0.851	7.93
85)	c	Di-n-octyl pht...	1.194	1.267	1.438	1.230	1.365	1.406	1.352	1.321	6.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.217	1.268	1.337	1.257	1.348	1.322	1.287	1.291	3.67
88)		Benzo(b)fluora...	1.358	1.382	1.328	1.120	1.265	1.218	1.136	1.258	8.33
89)		Benzo(k)fluora...	1.167	1.114	1.274	1.083	1.049	1.060	1.054	1.114	7.32
90)	C	Benzo(a)pyrene	1.118	1.059	1.131	1.011	1.061	1.051	1.010	1.063	4.44
91)		Dibenzo(a,h)an...	0.966	1.001	1.101	1.016	1.087	1.071	1.028	1.039	4.73
92)		Benzo(g,h,i)pe...	1.011	1.075	1.139	1.043	1.123	1.105	1.063	1.080	4.22

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141290.D
Acq On : 29 Jan 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 29 16:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	137039	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	552749	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	301993	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	536934	20.000	ng	0.00
76) Chrysene-d12	13.963	240	311885	20.000	ng	0.00
86) Perylene-d12	15.427	264	276754	20.000	ng	-0.01
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...	7.198	70	18566	2.764	ng	99

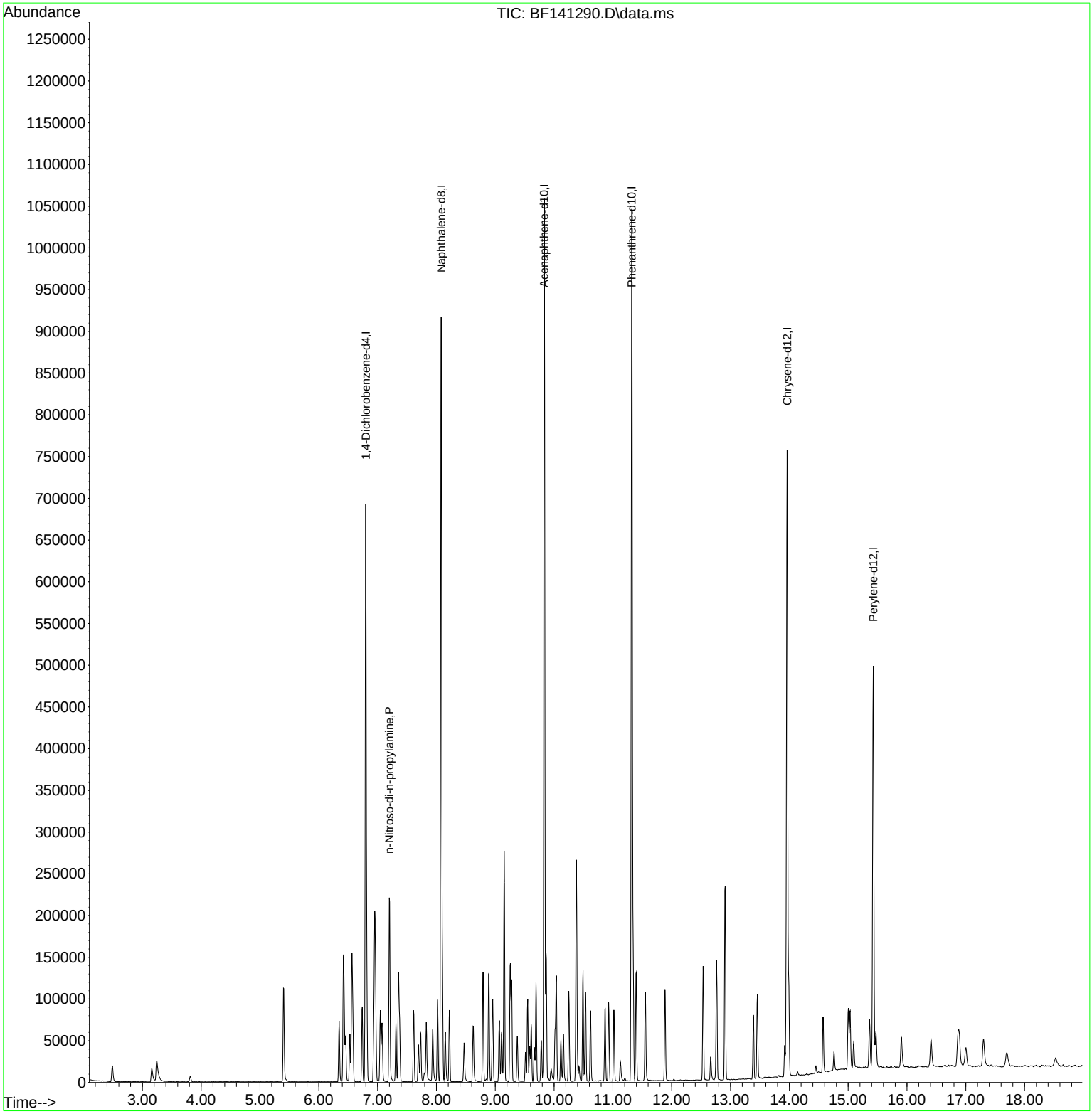
(#) = qualifier out of range (m) = manual integration (+) = signals summed

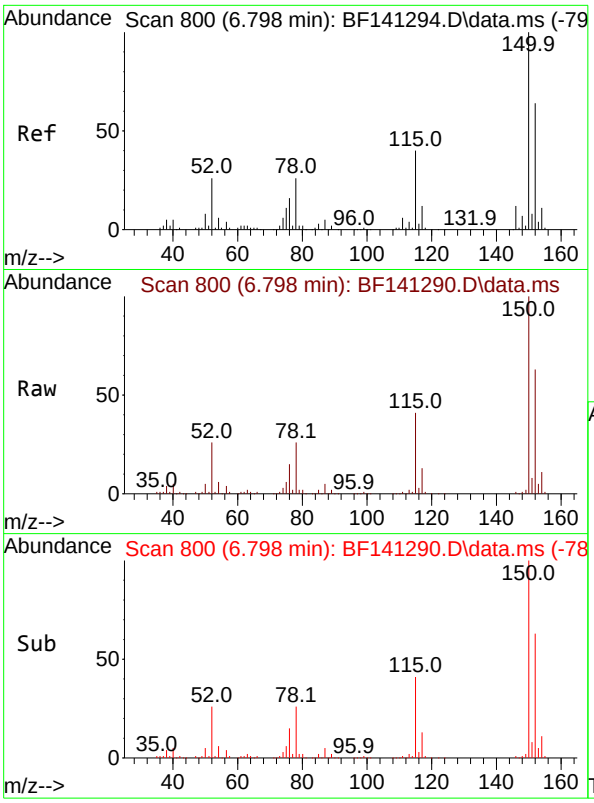
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141290.D
Acq On : 29 Jan 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 29 16:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration



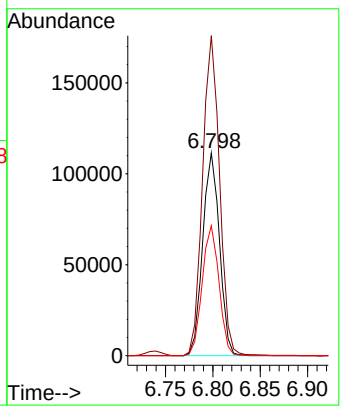


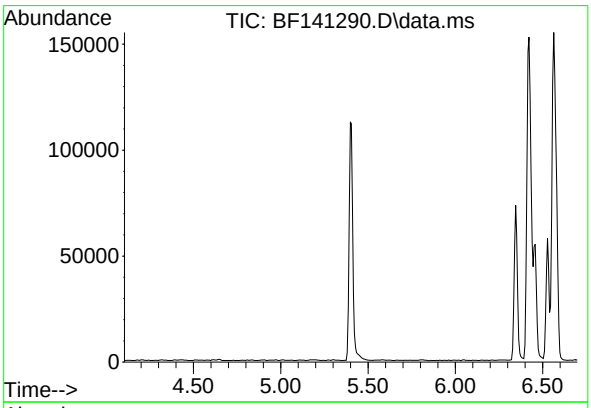
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 137039

Ion	Ratio	Lower	Upper
152	100		
150	157.8	125.9	188.9
115	64.0	49.7	74.5



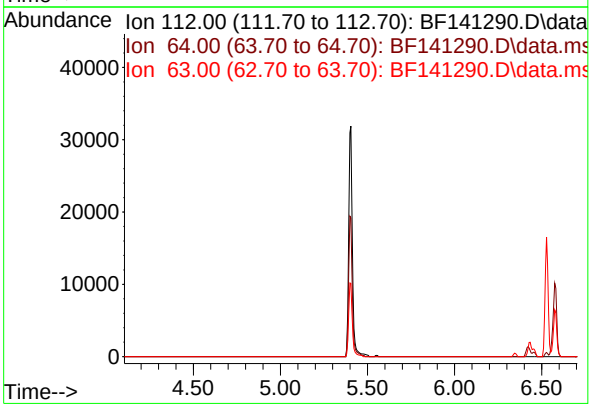


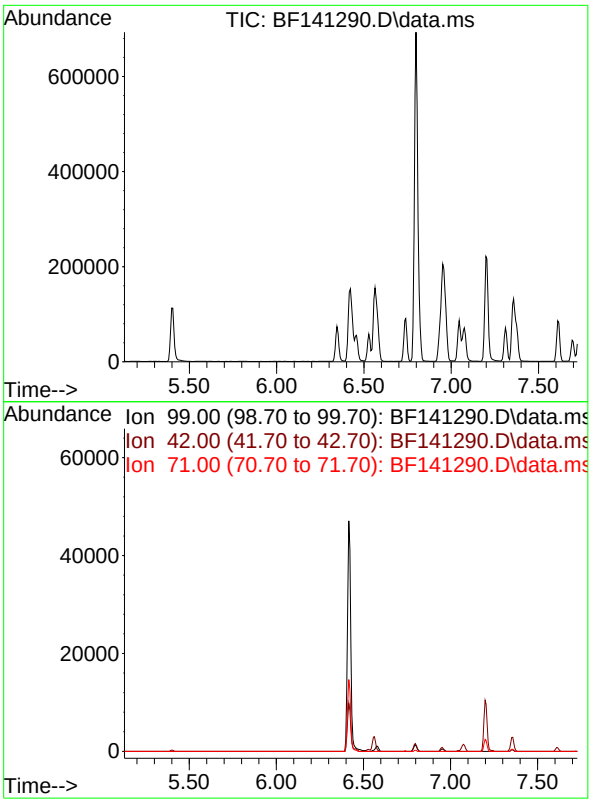
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.40 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	62.3
63	32.6





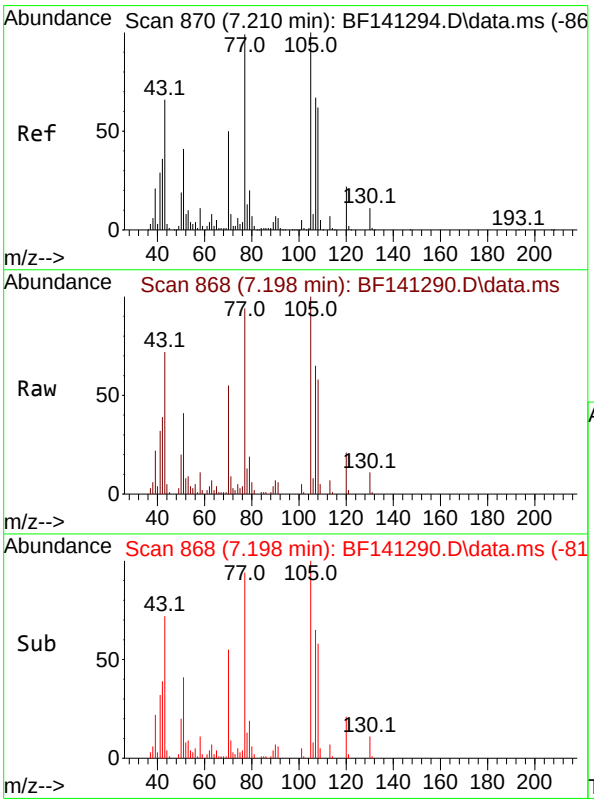
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.43 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

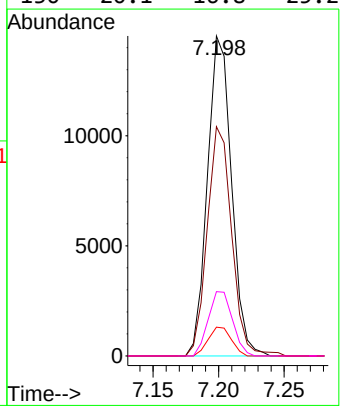
Sig	Exp Ratio
99	100
42	21.4
71	33.6

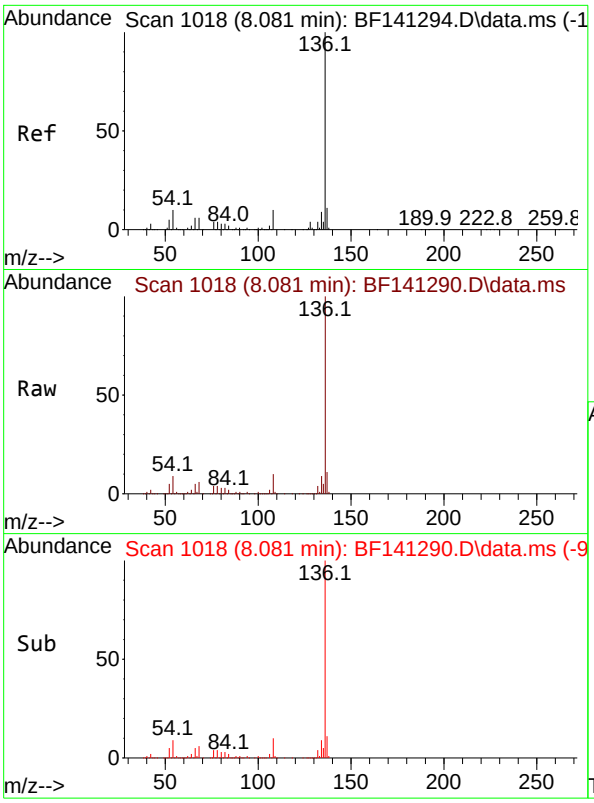


#19
n-Nitroso-di-n-propylamine
Concen: 2.764 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.012 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 70 Resp: 18566

Ion	Ratio	Lower	Upper
70	100		
42	71.6	56.8	85.2
101	9.0	7.7	11.5
130	20.1	16.8	25.2



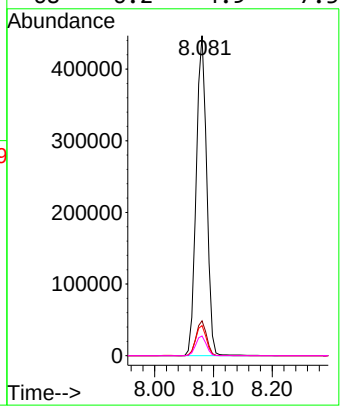


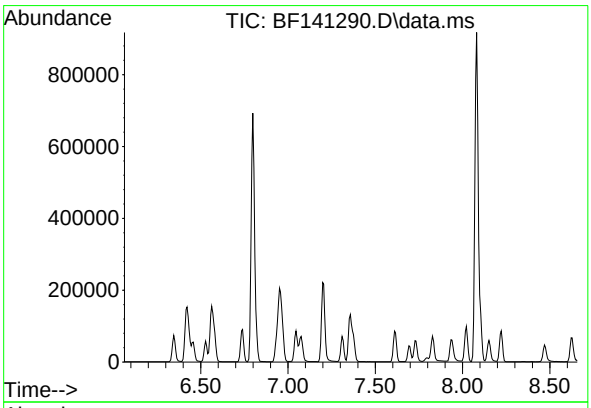
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 552749

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	9.4	7.8	11.8
68	6.2	4.9	7.3



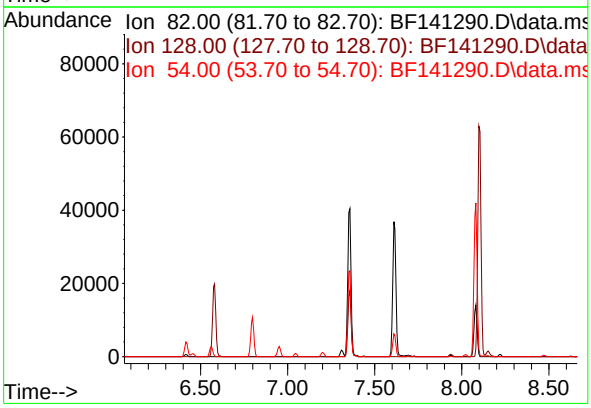


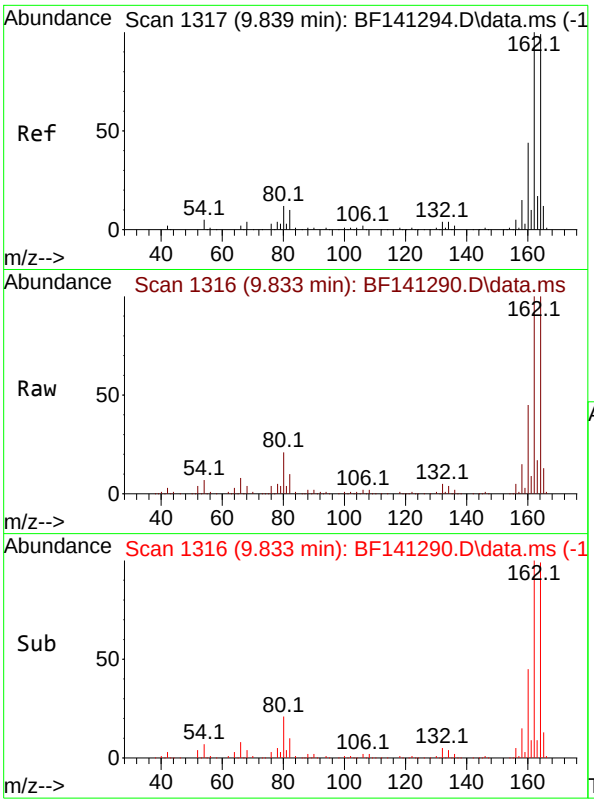
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.36 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	44.6
54	58.9



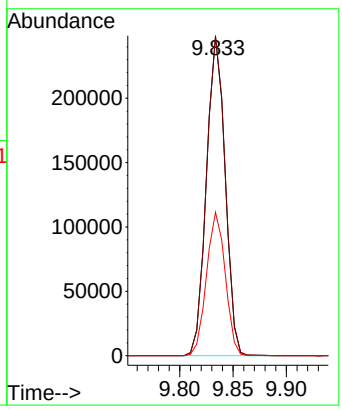


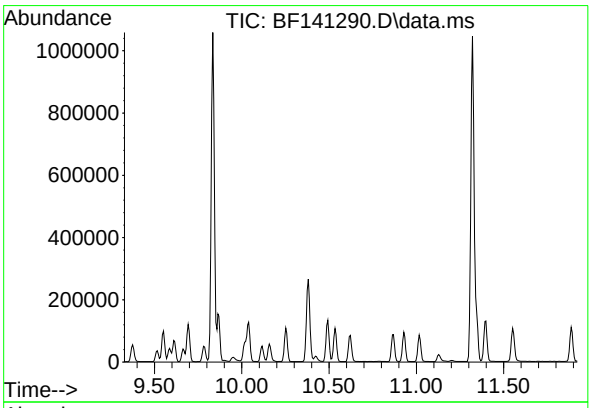
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 301993

Ion	Ratio	Lower	Upper
164	100		
162	100.3	80.6	121.0
160	44.9	35.8	53.6



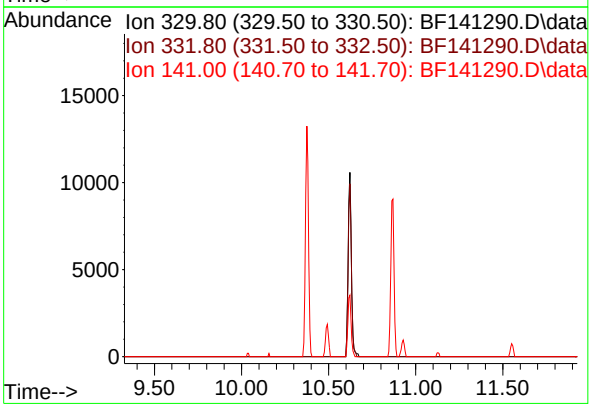


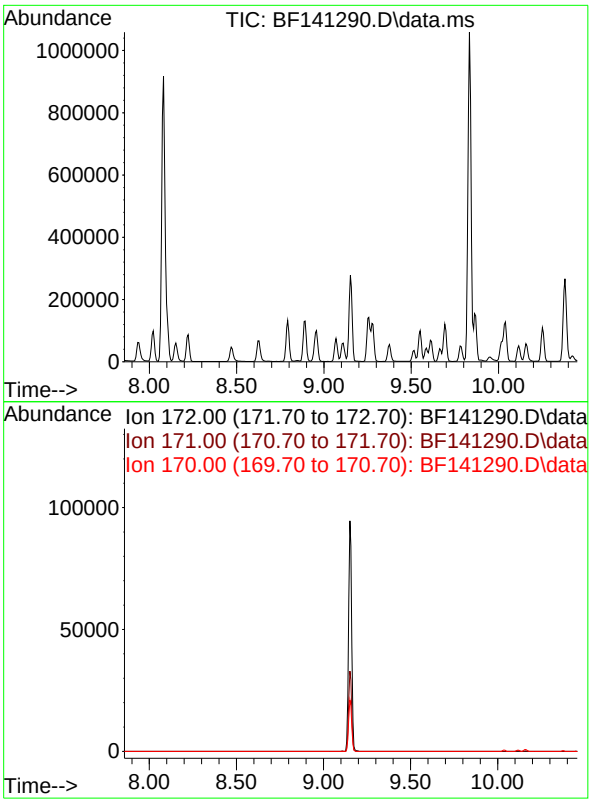
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.63 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	95.1
141	36.0





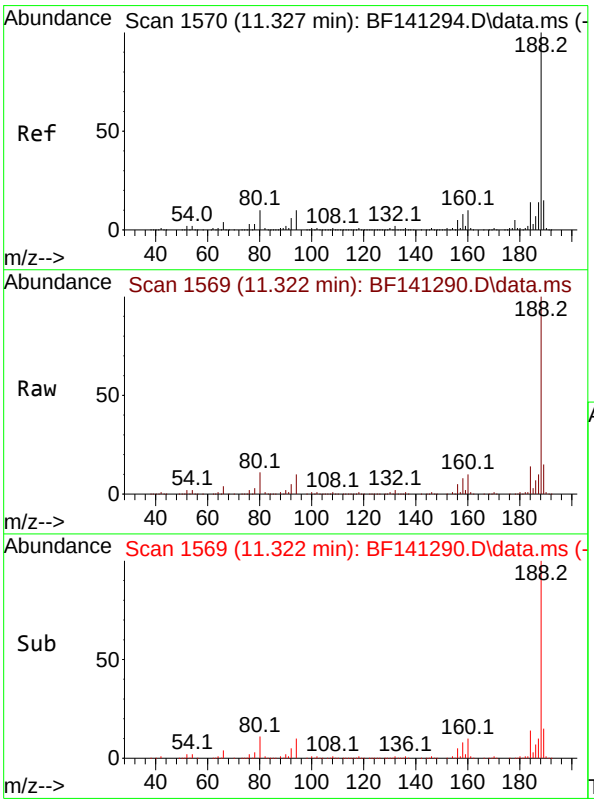
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.16 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

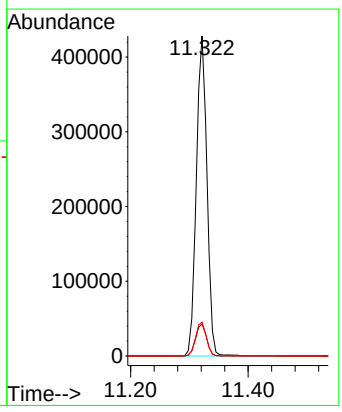
Sig	Exp Ratio
172	100
171	36.0
170	23.8

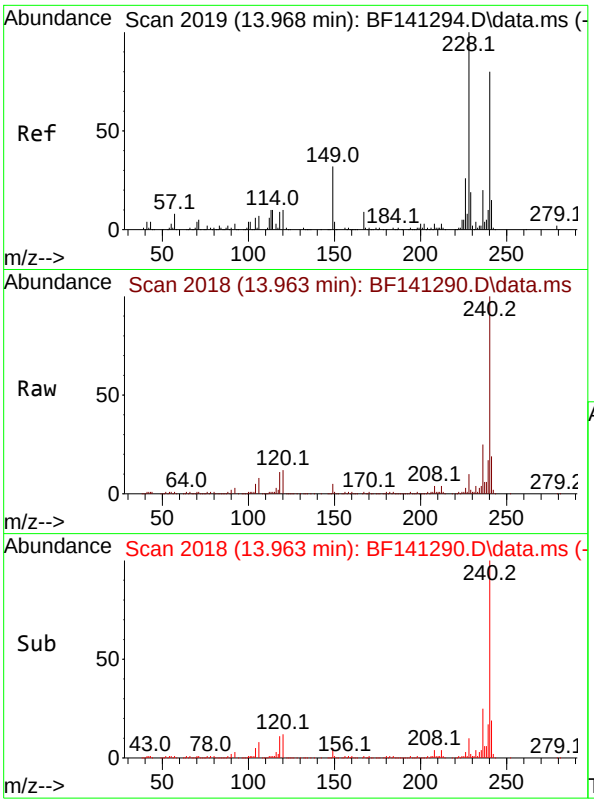


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion:188 Resp: 536934

Ion	Ratio	Lower	Upper
188	100		
94	10.1	7.8	11.6
80	10.6	8.2	12.4



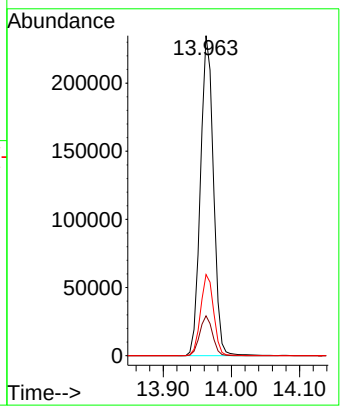


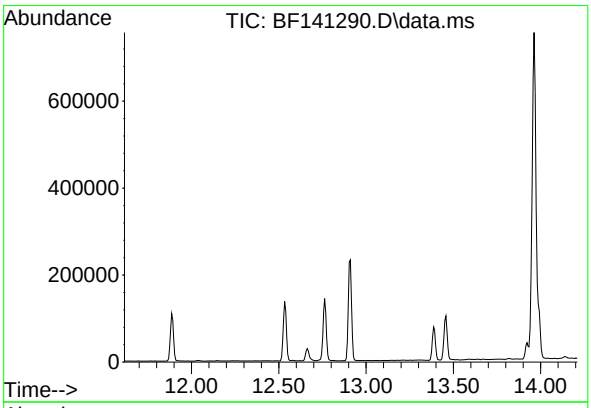
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 311885

Ion	Ratio	Lower	Upper
240	100		
120	12.4	10.0	15.0
236	25.3	19.7	29.5



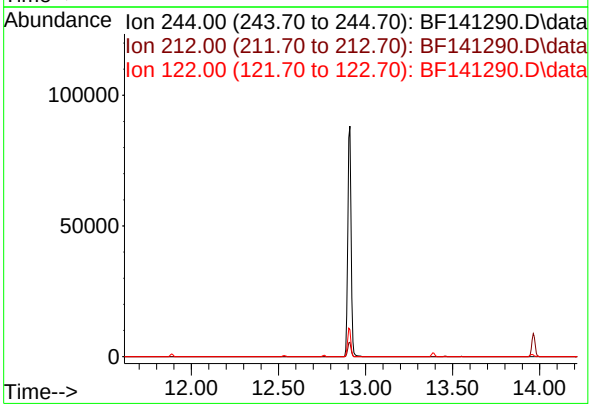


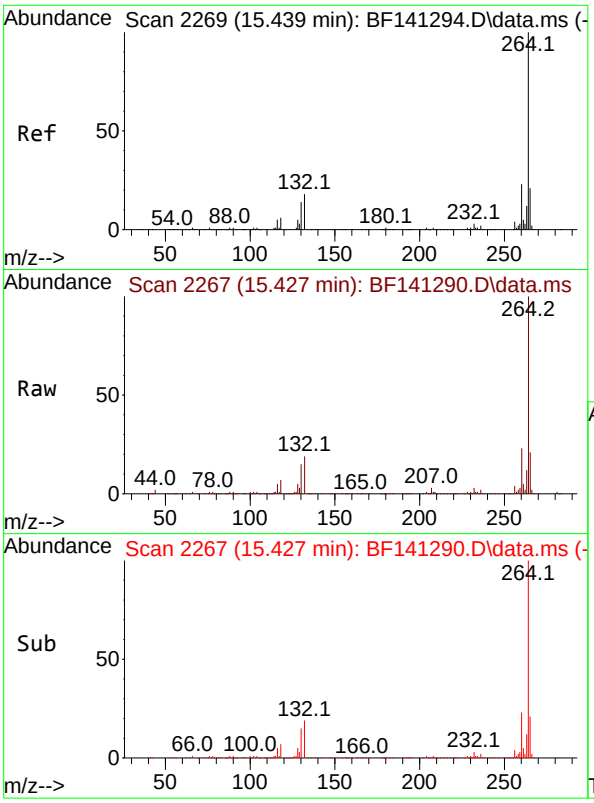
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 12.92 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.7
122	11.0



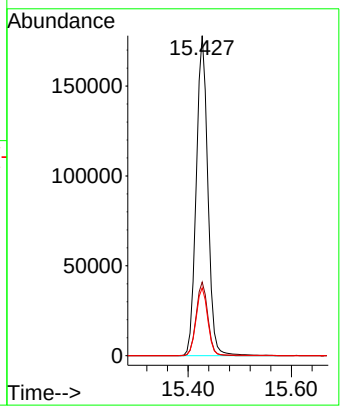


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 276754

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	27.8
265	21.2	16.7	25.1



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141291.D
Acq On : 29 Jan 2025 10:56
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 29 16:26:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.799	152	134200	20.000	ng		0.00
21) Naphthalene-d8	8.081	136	531551	20.000	ng		0.00
39) Acenaphthene-d10	9.834	164	281034	20.000	ng		0.00
64) Phenanthrene-d10	11.322	188	497368	20.000	ng		0.00
76) Chrysene-d12	13.963	240	288657	20.000	ng		0.00
86) Perylene-d12	15.427	264	273117	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	95839	11.044	ng		0.00
7) Phenol-d6	6.416	99	123556	11.172	ng		-0.01
23) Nitrobenzene-d5	7.357	82	107680	10.719	ng		0.00
42) 2,4,6-Tribromophenol	10.622	330	27799	10.855	ng		0.00
45) 2-Fluorobiphenyl	9.151	172	224446	12.320	ng		0.00
79) Terphenyl-d14	12.910	244	222747	11.874	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.487	88	20141	5.229	ng		99
3) Pyridine	3.234	79	45762	4.967	ng		97
4) n-Nitrosodimethylamine	3.158	42	25819	4.894	ng	#	96
6) Aniline	6.457	93	49669	5.373	ng		99
8) 2-Chlorophenol	6.581	128	51505	5.527	ng		96
9) Benzaldehyde	6.346	77	39117	6.090	ng		97
10) Phenol	6.434	94	65035	5.558	ng		93
11) bis(2-Chloroethyl)ether	6.528	93	49579	5.510	ng		98
12) 1,3-Dichlorobenzene	6.740	146	56929	5.539	ng		99
13) 1,4-Dichlorobenzene	6.816	146	57684	5.573	ng		99
14) 1,2-Dichlorobenzene	6.969	146	54653	5.650	ng		98
15) Benzyl Alcohol	6.934	79	38176	5.053	ng		94
16) 2,2'-oxybis(1-Chloropr...	7.075	45	84988	5.436	ng		100
17) 2-Methylphenol	7.046	107	41498	5.500	ng		99
18) Hexachloroethane	7.310	117	20418	5.332	ng		95
19) n-Nitroso-di-n-propyla...	7.198	70	35278	5.363	ng		100
20) 3+4-Methylphenols	7.198	107	52364	5.645	ng	#	90
22) Acetophenone	7.204	105	72756	5.774	ng		98
24) Nitrobenzene	7.375	77	55610	5.337	ng		99
25) Isophorone	7.610	82	92818	5.346	ng		98
26) 2-Nitrophenol	7.693	139	23372	4.789	ng		97
27) 2,4-Dimethylphenol	7.728	122	32462	5.205	ng		99
28) bis(2-Chloroethoxy)met...	7.828	93	60286	5.449	ng		98
29) 2,4-Dichlorophenol	7.934	162	40847	5.360	ng		99
30) 1,2,4-Trichlorobenzene	8.022	180	49479	5.661	ng		96
31) Naphthalene	8.098	128	158560	5.672	ng		99
32) Benzoic acid	7.793	122	18585	3.281	ng		93
33) 4-Chloroaniline	8.151	127	50760	5.405	ng		97
34) Hexachlorobutadiene	8.222	225	27720	5.419	ng		99
35) Caprolactam	8.475	113	12827	5.204	ng		94
36) 4-Chloro-3-methylphenol	8.622	107	43627	5.334	ng		97
37) 2-Methylnaphthalene	8.793	142	100305	5.634	ng		98
38) 1-Methylnaphthalene	8.893	142	100569	5.767	ng		99
40) 1,2,4,5-Tetrachloroben...	8.957	216	43228	5.410	ng		97
41) Hexachlorocyclopentadiene	8.945	237	9555	3.985	ng		98
43) 2,4,6-Trichlorophenol	9.069	196	26790	5.136	ng		97

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141291.D
Acq On : 29 Jan 2025 10:56
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 29 16:26:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

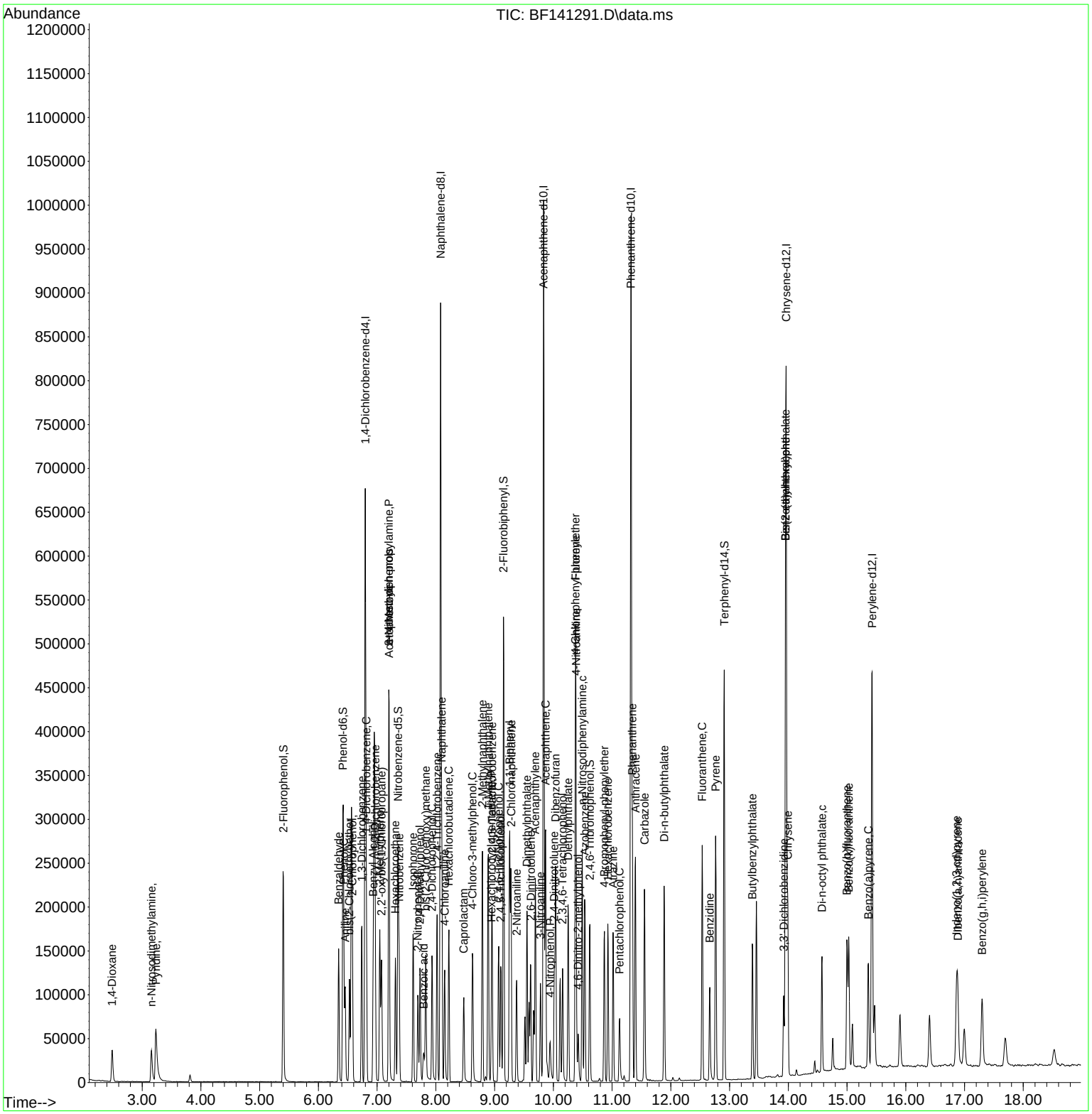
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.104	196	30127	5.309	ng	98
46) 1,1'-Biphenyl	9.257	154	127187	5.801	ng	99
47) 2-Chloronaphthalene	9.281	162	98081	5.760	ng	97
48) 2-Nitroaniline	9.375	65	27154	5.056	ng	99
49) Acenaphthylene	9.692	152	134958	5.643	ng	99
50) Dimethylphthalate	9.551	163	105240	5.584	ng	99
51) 2,6-Dinitrotoluene	9.616	165	23372	5.329	ng	95
52) Acenaphthene	9.869	154	95591	5.617	ng	100
53) 3-Nitroaniline	9.781	138	22582	5.206	ng	91
55) Dibenzofuran	10.039	168	131288	5.769	ng	98
56) 4-Nitrophenol	9.945	139	13160	4.226	ng	89
57) 2,4-Dinitrotoluene	10.016	165	29799	5.268	ng	98
58) Fluorene	10.381	166	106198	6.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	22818	5.090	ng	96
60) Diethylphthalate	10.251	149	103307	5.660	ng	98
61) 4-Chlorophenyl-phenyle...	10.375	204	51875	6.007	ng	98
62) 4-Nitroaniline	10.387	138	20870	5.008	ng	95
63) Azobenzene	10.534	77	102878	5.623	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	9960	3.353	ng	92
66) n-Nitrosodiphenylamine	10.492	169	89060	5.523	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	29160	5.245	ng	94
68) Hexachlorobenzene	10.928	284	31990	5.424	ng	98
69) Atrazine	11.016	200	26258	4.855	ng	97
70) Pentachlorophenol	11.128	266	13924	4.027	ng	96
71) Phenanthrene	11.345	178	153320	5.738	ng	99
72) Anthracene	11.398	178	146593	5.625	ng	99
73) Carbazole	11.551	167	126760	5.491	ng	99
74) Di-n-butylphthalate	11.886	149	154718	5.560	ng	100
75) Fluoranthene	12.533	202	148553	5.696	ng	99
77) Benzidine	12.663	184	63661	7.253	ng	98
78) Pyrene	12.763	202	157175	5.639	ng	99
80) Butylbenzylphthalate	13.386	149	49477	5.140	ng	99
81) Benzo(a)anthracene	13.951	228	110559	5.588	ng	99
82) 3,3'-Dichlorobenzidine	13.922	252	29754	4.803	ng	100
83) Chrysene	13.992	228	96099	5.238	ng	99
84) Bis(2-ethylhexyl)phtha...	13.951	149	63638	5.269	ng	98
85) Di-n-octyl phthalate	14.574	149	86163	4.560	ng	98
87) Indeno(1,2,3-cd)pyrene	16.863	276	83074	4.657	ng	99
88) Benzo(b)fluoranthene	14.998	252	92690	5.465	ng	99
89) Benzo(k)fluoranthene	15.027	252	79701	5.247	ng	99
90) Benzo(a)pyrene	15.363	252	76368	5.268	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	65991	4.615	ng	99
92) Benzo(g,h,i)perylene	17.298	276	69049	4.591	ng	97

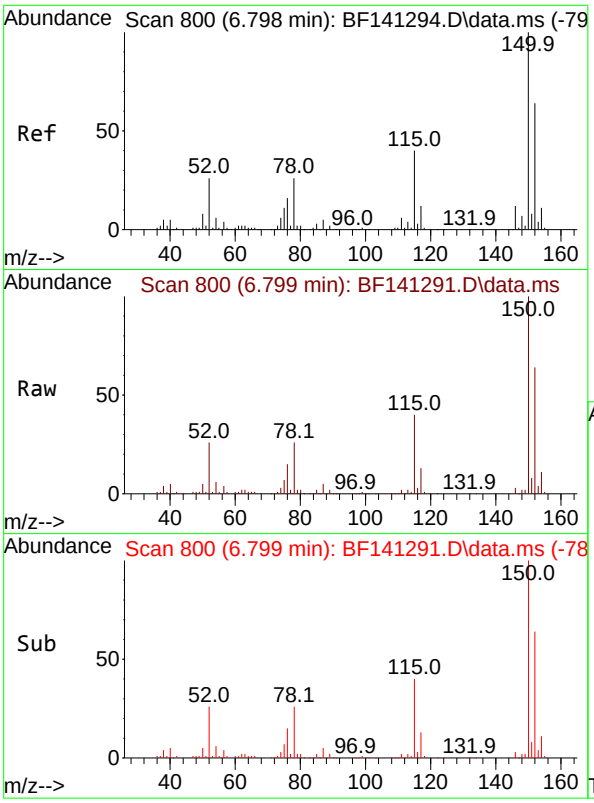
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141291.D
Acq On : 29 Jan 2025 10:56
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Jan 29 16:26:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration



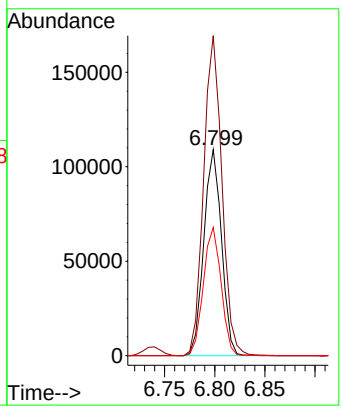


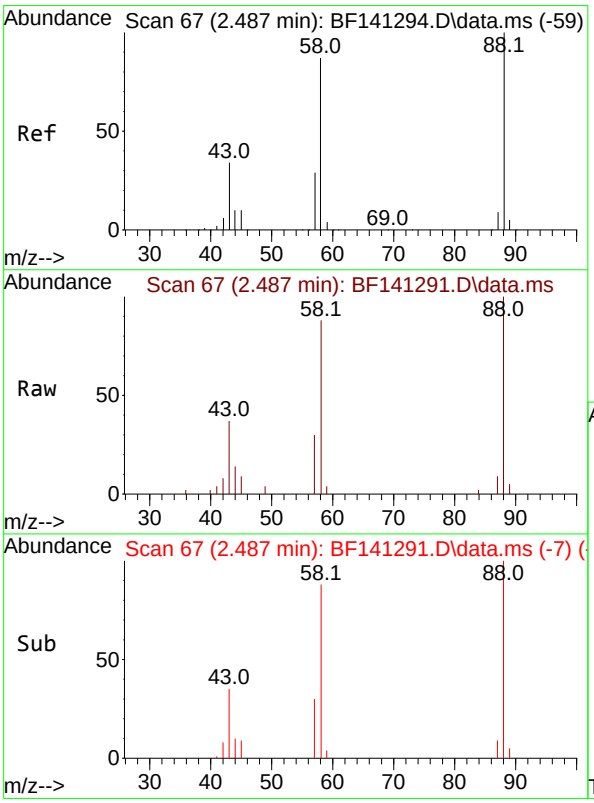
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.799 min Scan# 8
Delta R.T. 0.001 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 134200

Ion	Ratio	Lower	Upper
152	100		
150	155.3	125.9	188.9
115	62.2	49.7	74.5

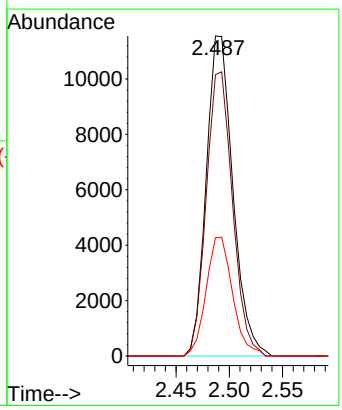


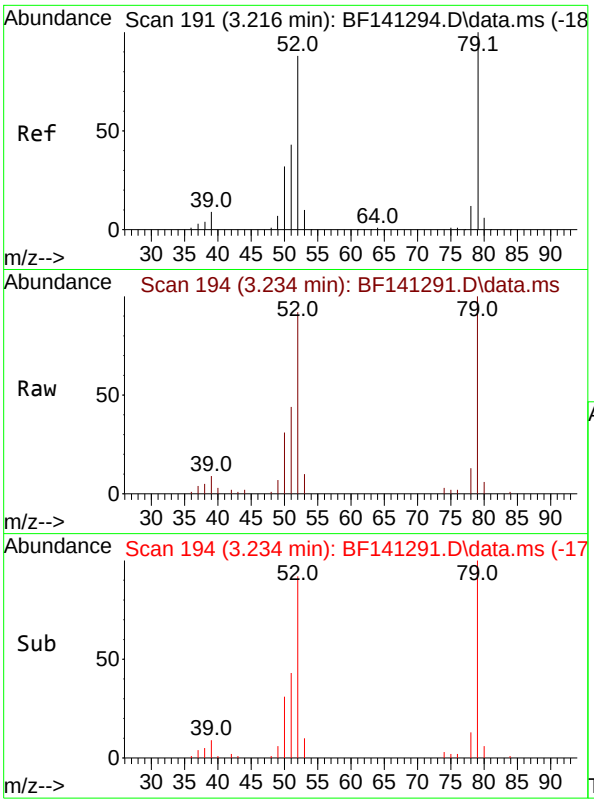


#2
1,4-Dioxane
Concen: 5.229 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 88 Resp: 20141

Ion	Ratio	Lower	Upper
88	100		
58	87.4	70.2	105.4
43	36.8	27.6	41.4



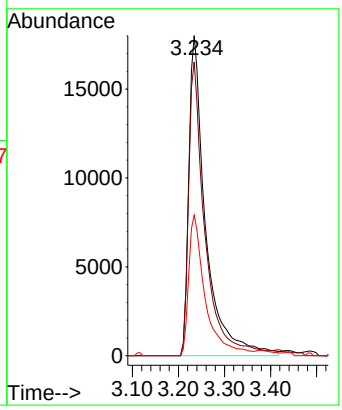


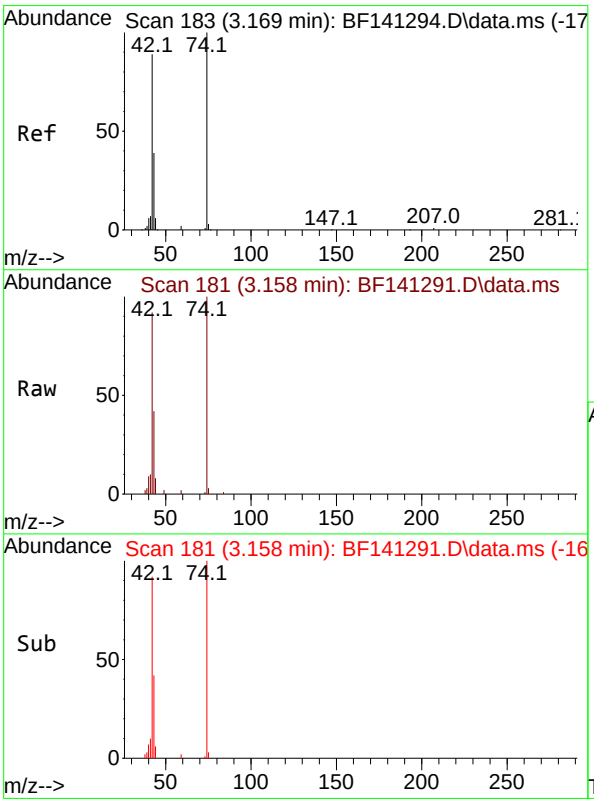
#3
Pyridine
Concen: 4.967 ng
RT: 3.234 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 45762

Ion	Ratio	Lower	Upper
79	100		
52	91.8	70.3	105.5
51	43.9	34.3	51.5

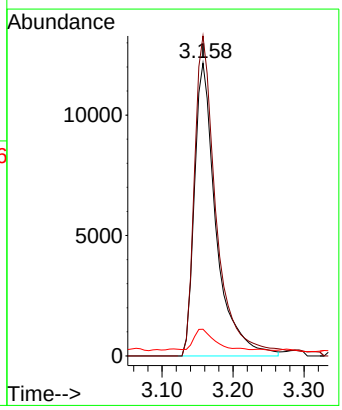


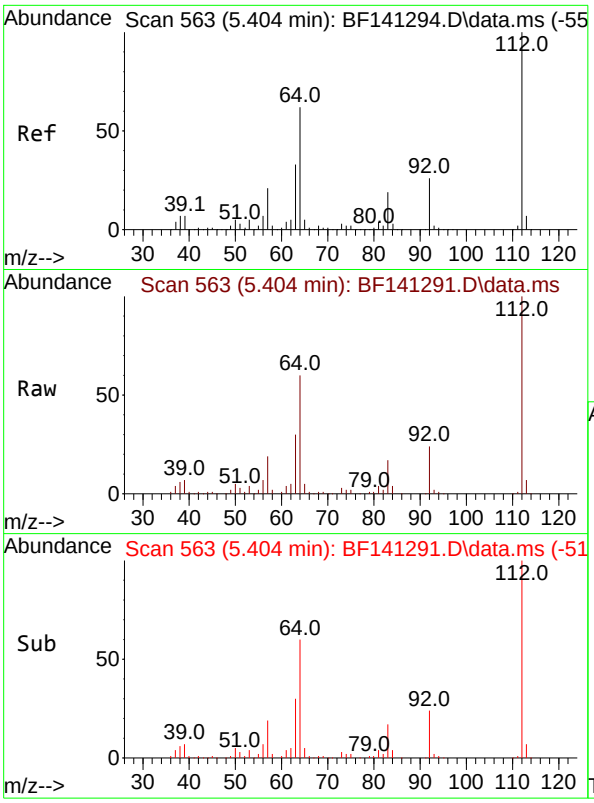


#4
n-Nitrosodimethylamine
Concen: 4.894 ng
RT: 3.158 min Scan# 181
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 42 Resp: 25819

Ion	Ratio	Lower	Upper
42	100		
74	109.3	90.3	135.5
44	9.1	5.7	8.5#



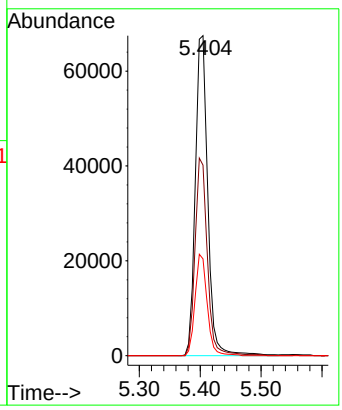


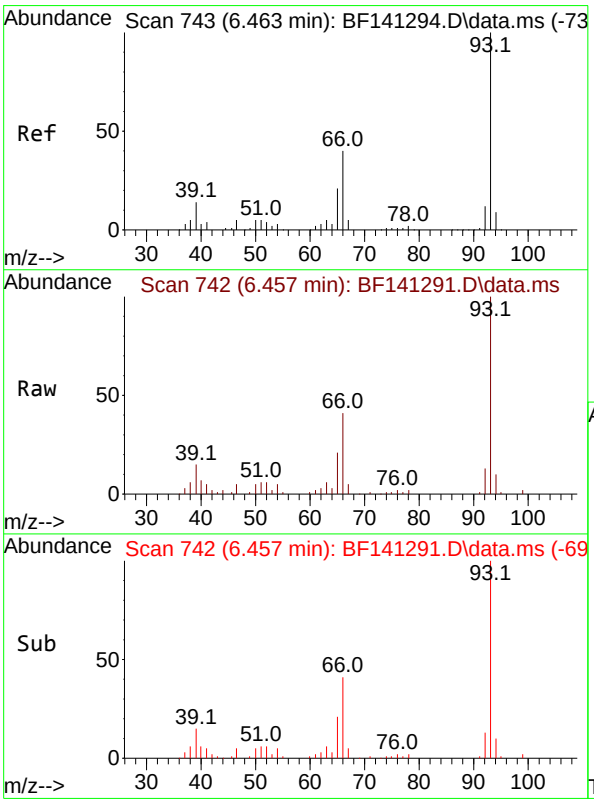
#5
2-Fluorophenol
Concen: 11.044 ng
RT: 5.404 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 95839

Ion	Ratio	Lower	Upper
112	100		
64	59.5	49.8	74.8
63	30.2	26.1	39.1

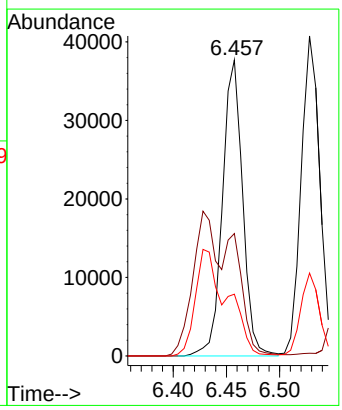


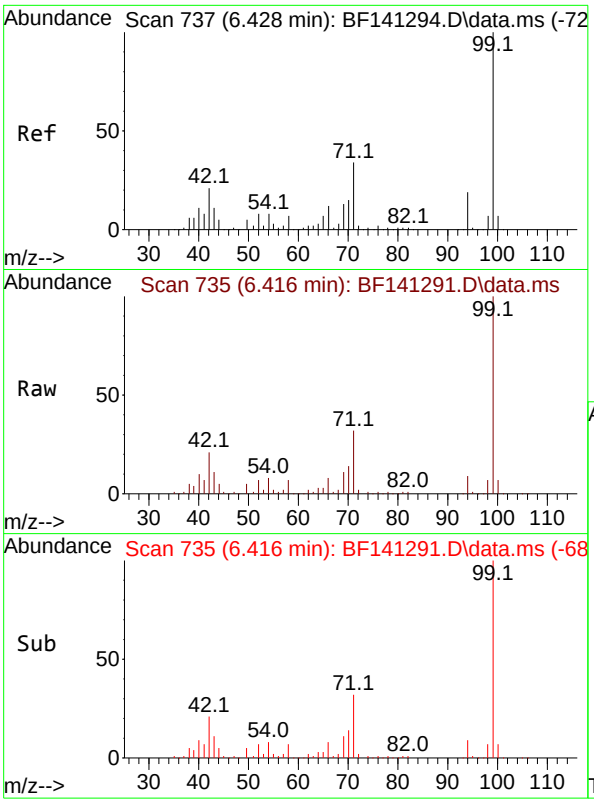


#6
Aniline
Concen: 5.373 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 93 Resp: 49669

Ion	Ratio	Lower	Upper
93	100		
66	41.4	32.5	48.7
65	20.9	17.0	25.6



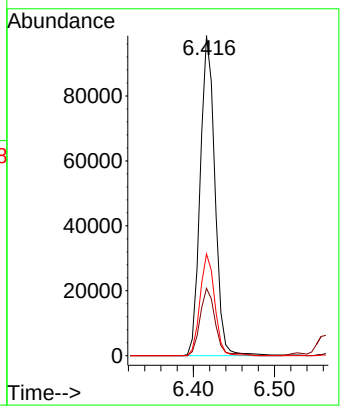


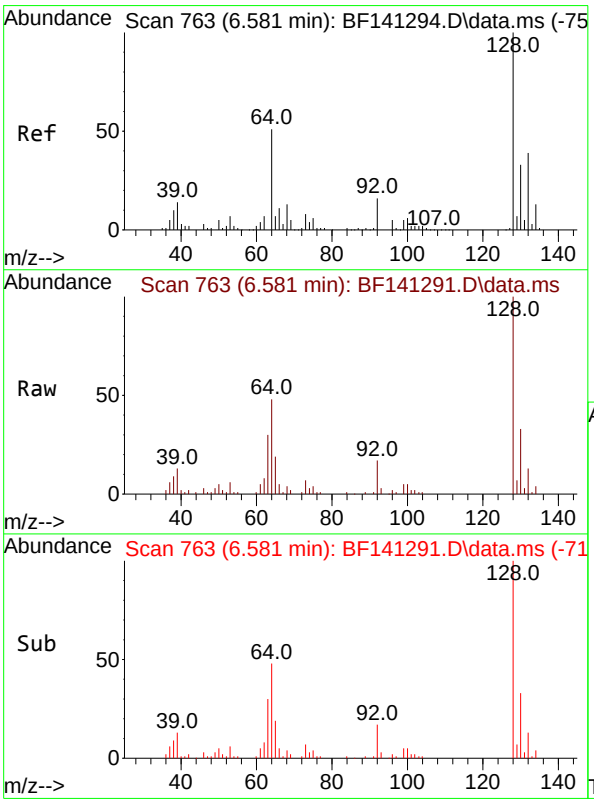
#7
Phenol-d6
Concen: 11.172 ng
RT: 6.416 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 123556

Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.1	25.7
71	31.8	26.9	40.3

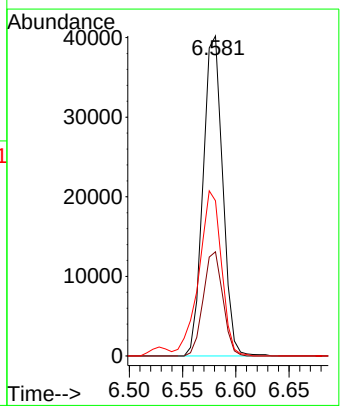


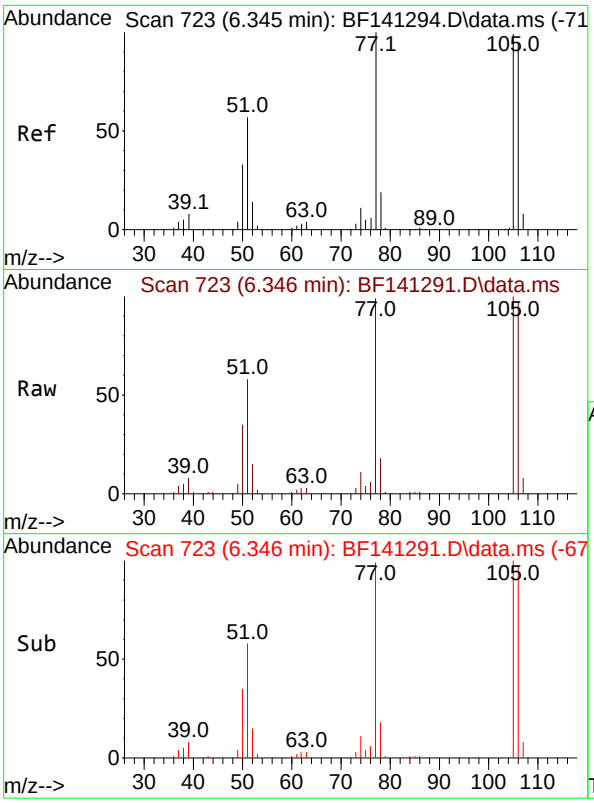


#8
2-Chlorophenol
Concen: 5.527 ng
RT: 6.581 min Scan# 763
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:128 Resp: 51505

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.5	52.5
64	48.5	32.9	72.9



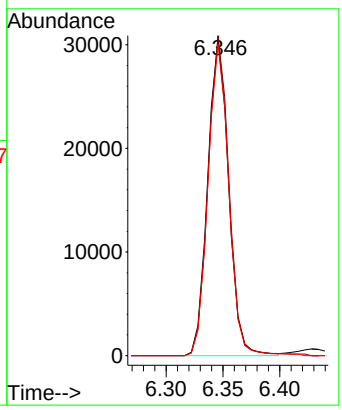


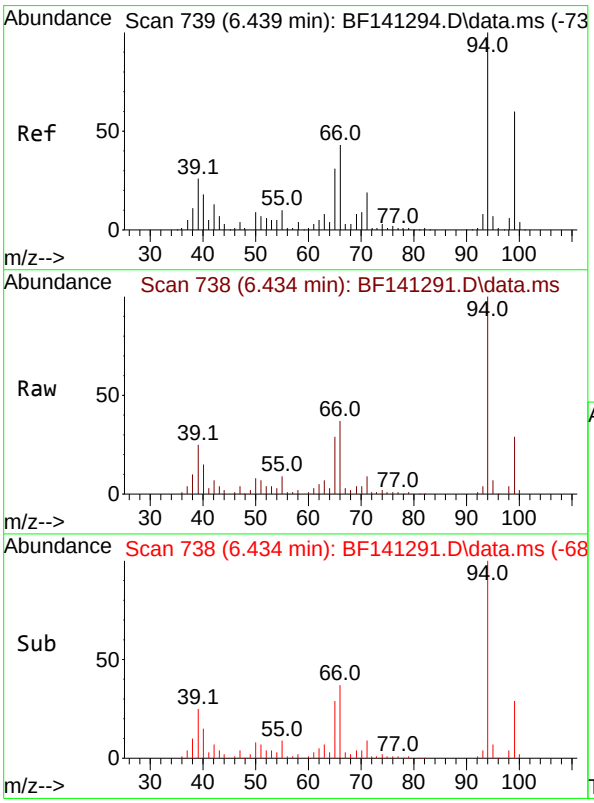
#9
Benzaldehyde
Concen: 6.090 ng
RT: 6.346 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 39117

Ion	Ratio	Lower	Upper
77	100		
105	100.9	79.4	119.4
106	98.1	74.6	114.6

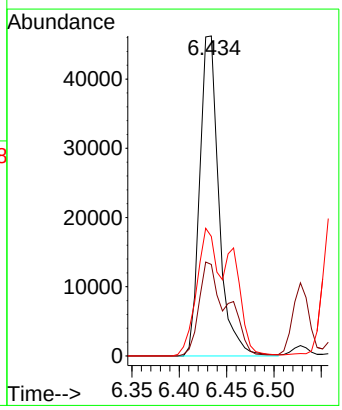


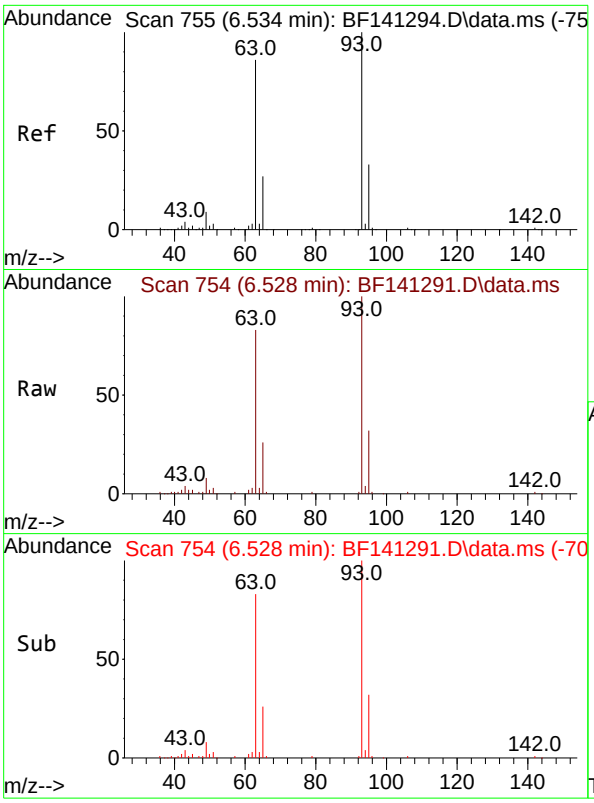


#10
Phenol
Concen: 5.558 ng
RT: 6.434 min Scan# 738
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 94 Resp: 65035

Ion	Ratio	Lower	Upper
94	100		
65	28.6	10.8	50.8
66	37.4	23.3	63.3



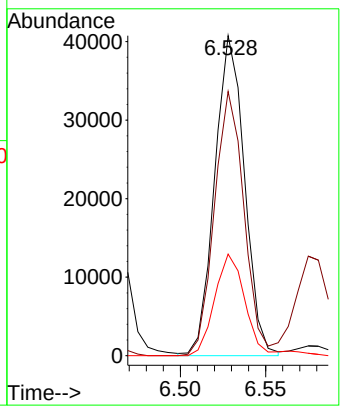


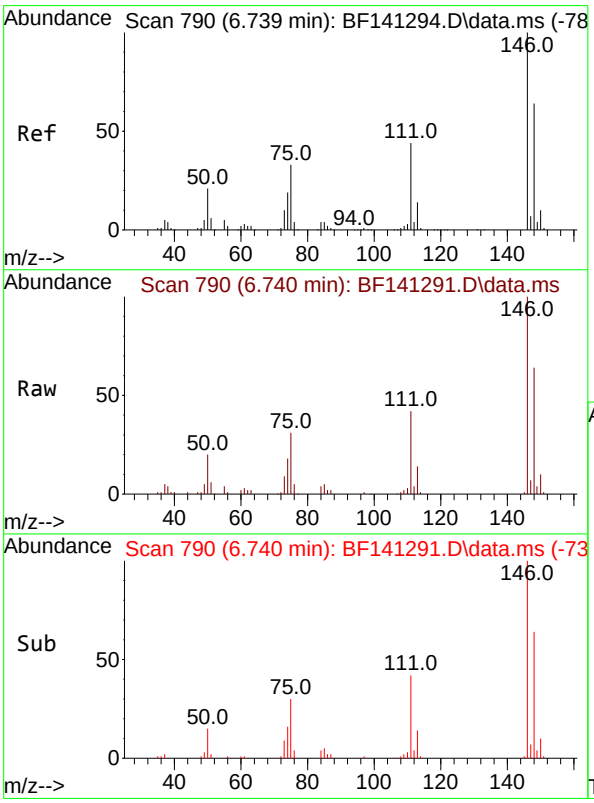
#11
bis(2-Chloroethyl)ether
Concen: 5.510 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 49579

Ion	Ratio	Lower	Upper
93	100		
63	82.6	65.0	105.0
95	31.7	12.4	52.4

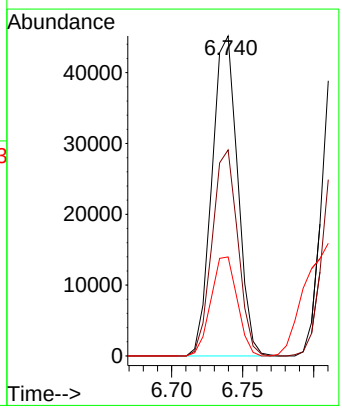


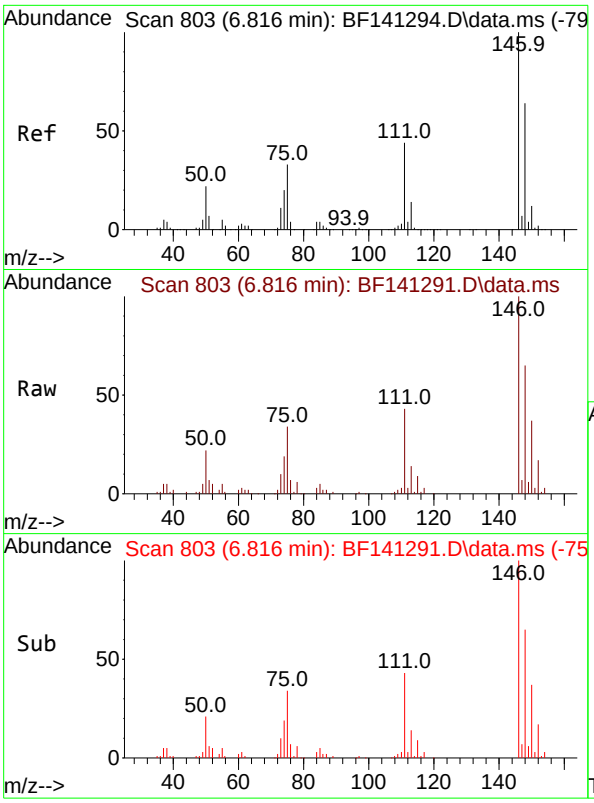


#12
1,3-Dichlorobenzene
Concen: 5.539 ng
RT: 6.740 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:146 Resp: 56929

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
75	30.9	26.2	39.4



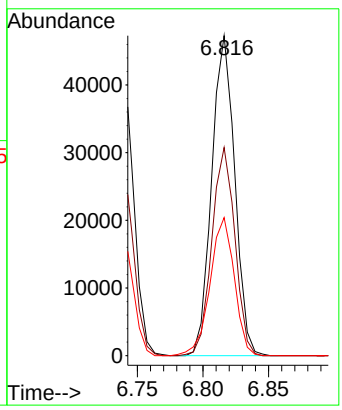


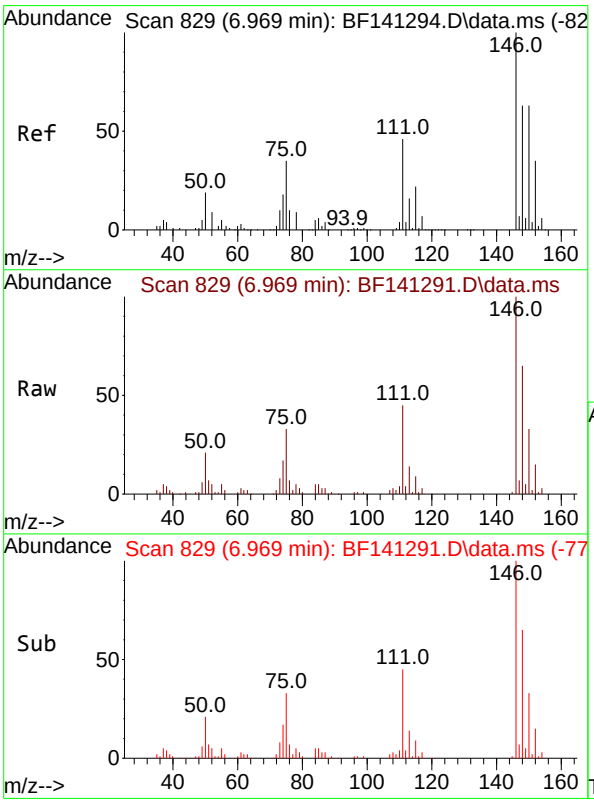
#13
1,4-Dichlorobenzene
Concen: 5.573 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 57684

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.2	76.8
111	43.2	35.0	52.4

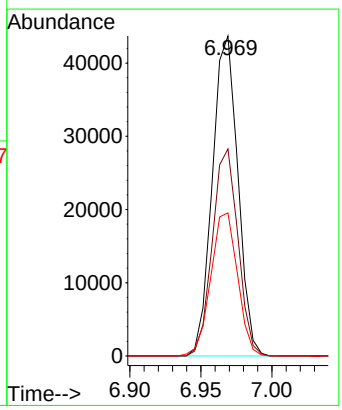


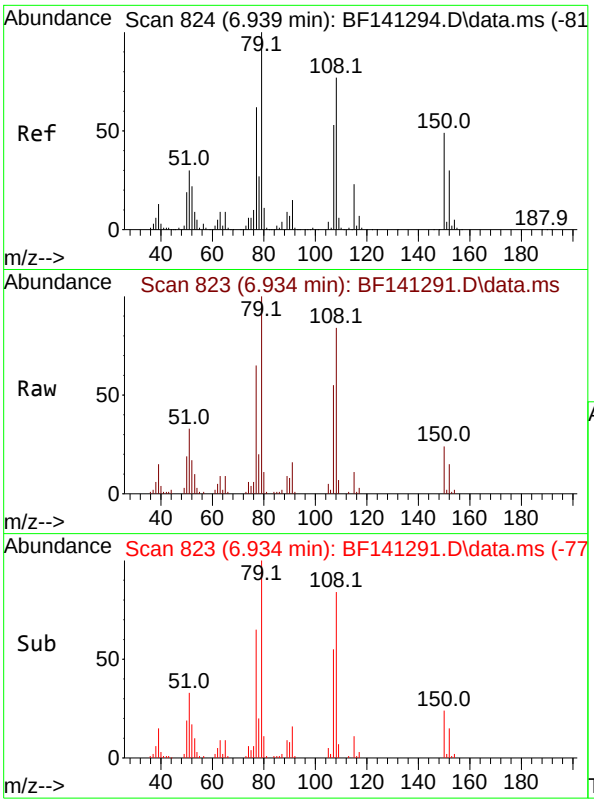


#14
1,2-Dichlorobenzene
Concen: 5.650 ng
RT: 6.969 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:146 Resp: 54653

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.5	75.7
111	44.7	36.6	55.0



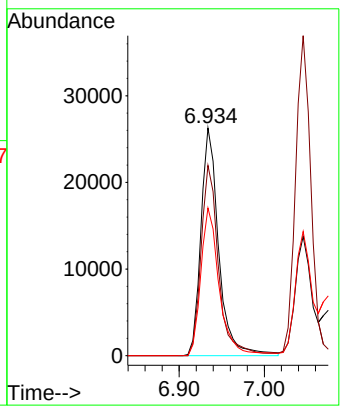


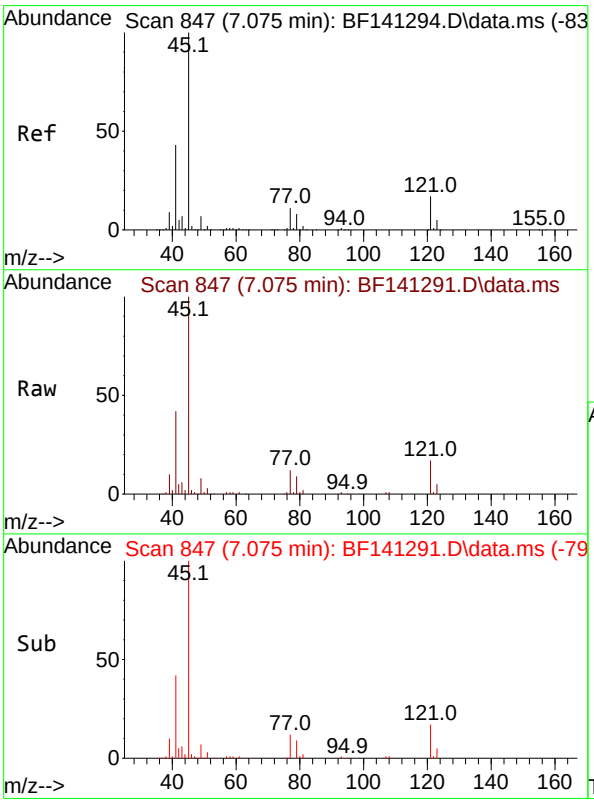
#15
Benzyl Alcohol
Concen: 5.053 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 38176

Ion	Ratio	Lower	Upper
79	100		
108	83.6	61.4	92.0
77	64.8	49.9	74.9

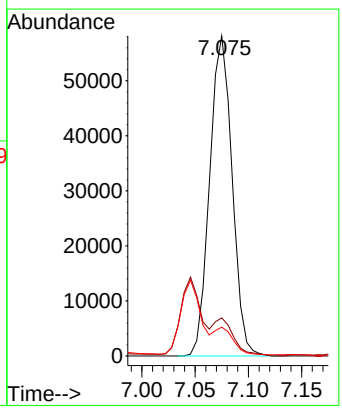


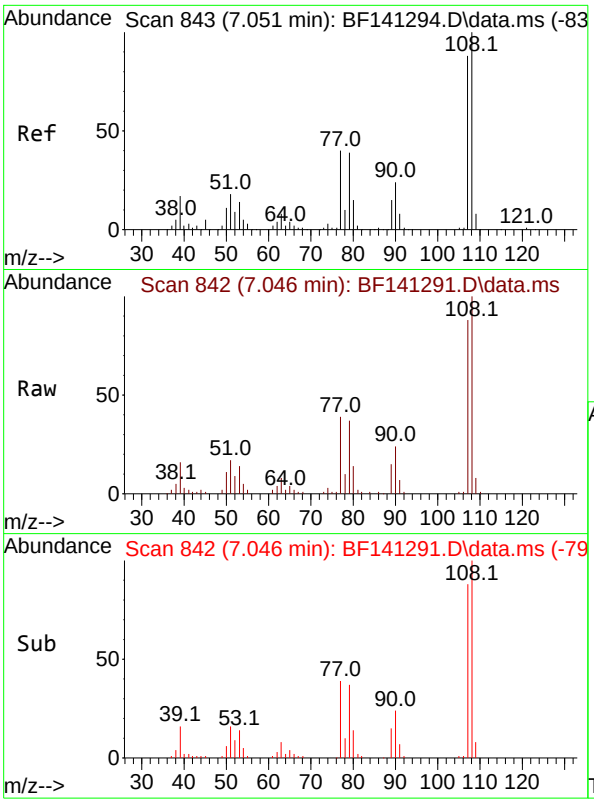


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.436 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 45 Resp: 84988

Ion	Ratio	Lower	Upper
45	100		
77	11.9	0.0	31.8
79	9.0	0.0	29.1



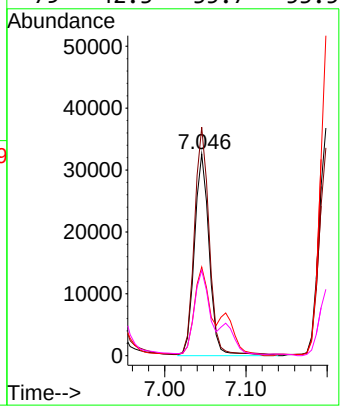


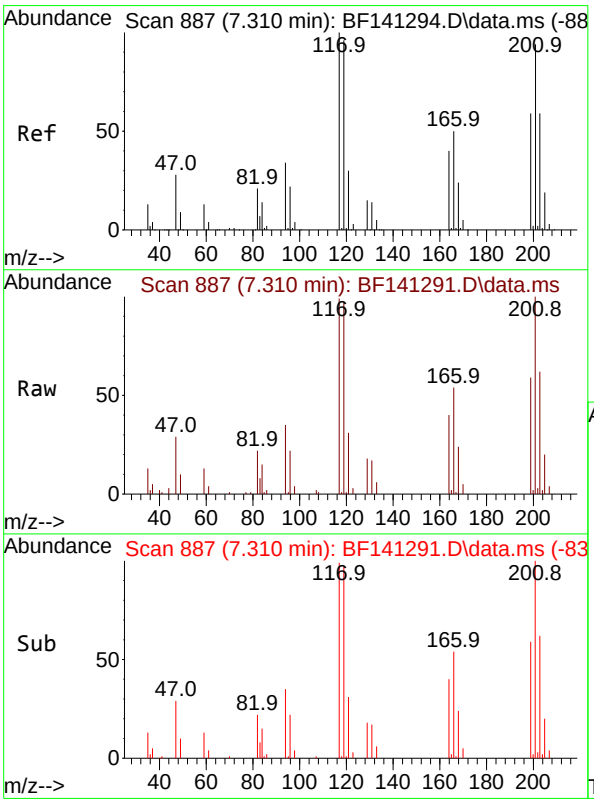
#17
2-Methylphenol
Concen: 5.500 ng
RT: 7.046 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 41498

Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.8	136.2
77	44.0	36.2	54.4
79	42.3	35.7	53.5

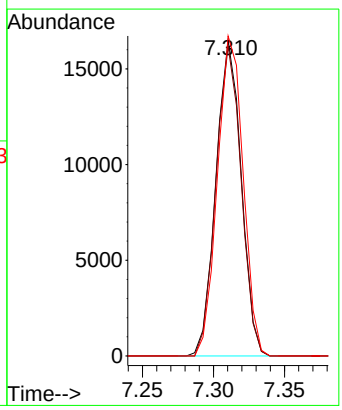


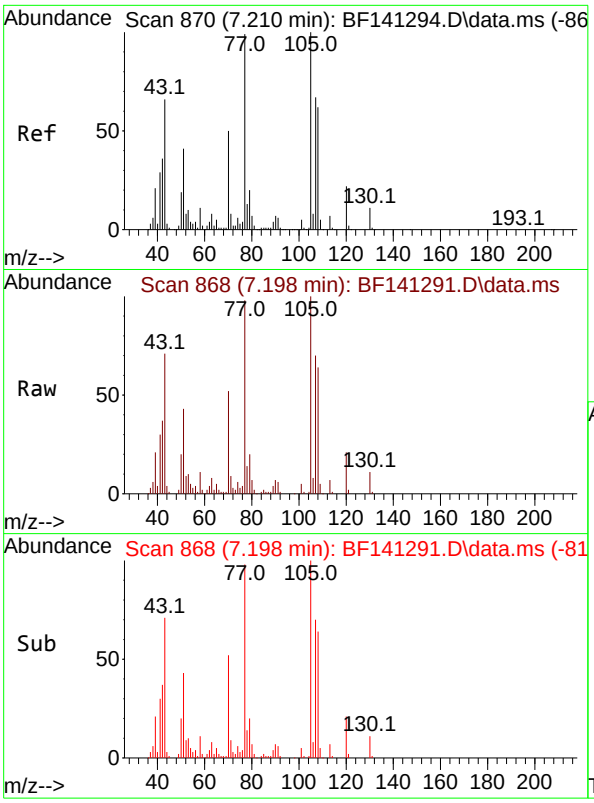


#18
Hexachloroethane
Concen: 5.332 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:117 Resp: 20418

Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.6	114.8
201	101.4	74.8	112.2



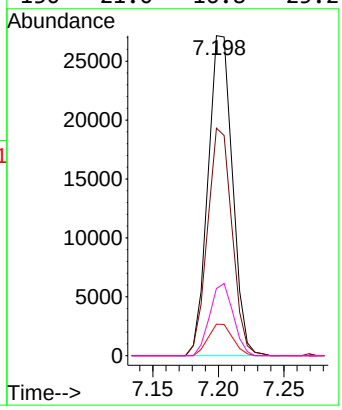


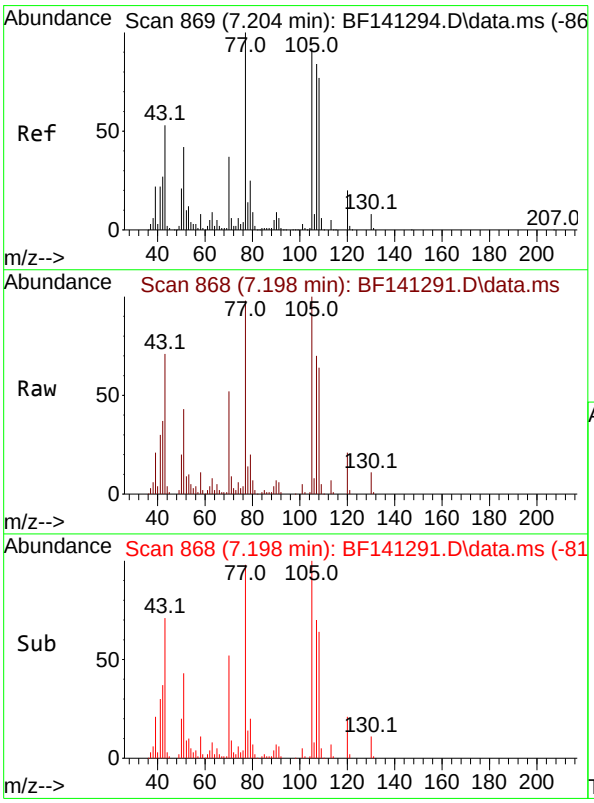
#19
n-Nitroso-di-n-propylamine
Concen: 5.363 ng
RT: 7.198 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 35278

Ion	Ratio	Lower	Upper
70	100		
42	71.1	56.8	85.2
101	9.9	7.7	11.5
130	21.0	16.8	25.2

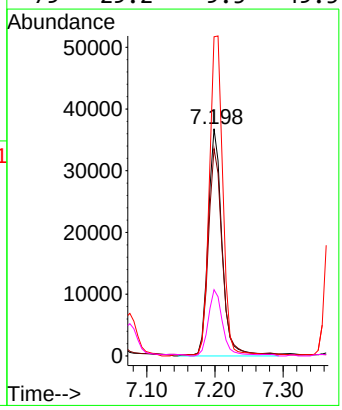


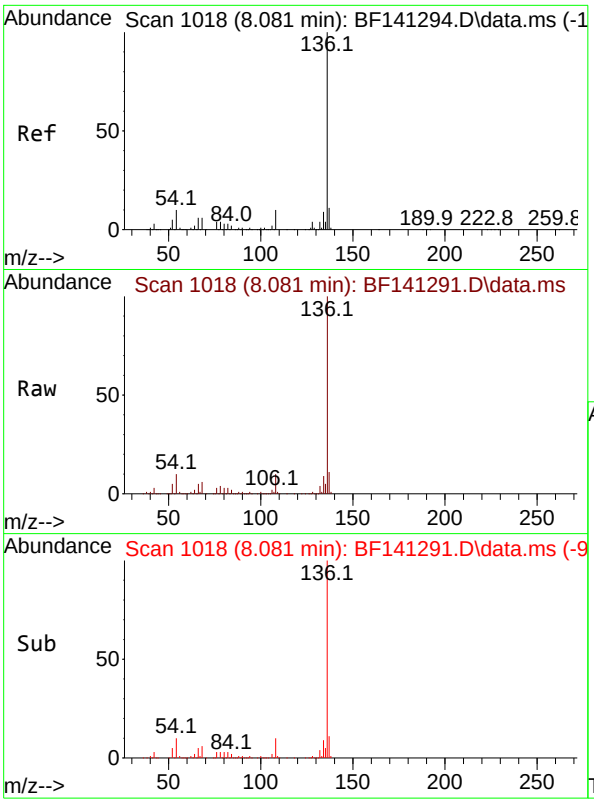


#20
3+4-Methylphenols
Concen: 5.645 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:107 Resp: 52364

Ion	Ratio	Lower	Upper
107	100		
108	91.3	70.9	110.9
77	140.5	98.5	138.5#
79	29.2	9.5	49.5



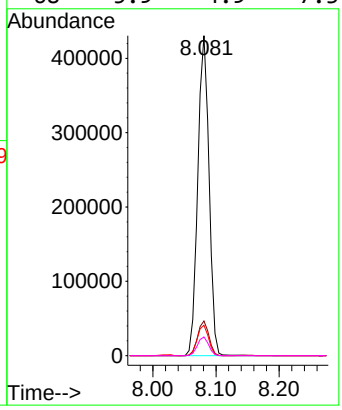


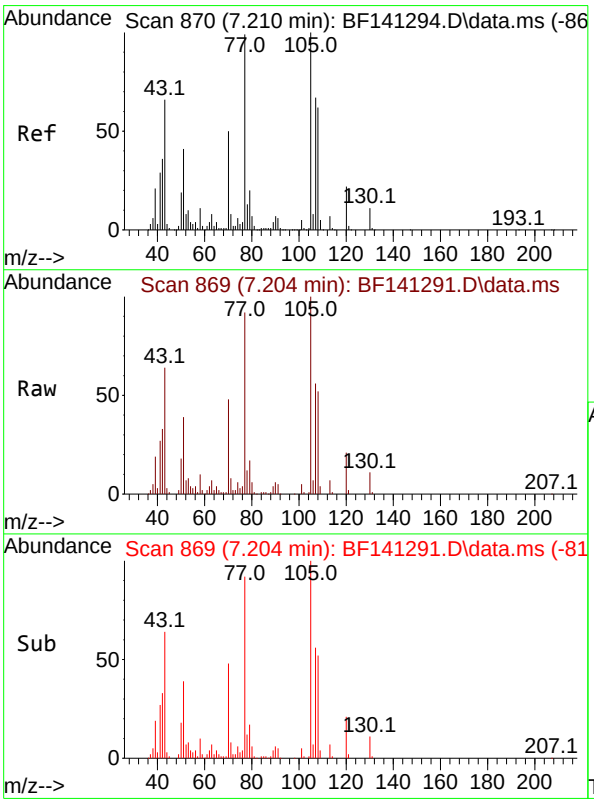
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 531551

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	9.5	7.8	11.8
68	5.9	4.9	7.3

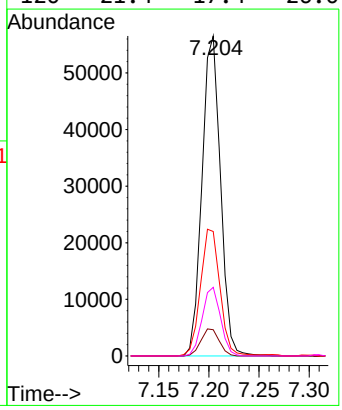


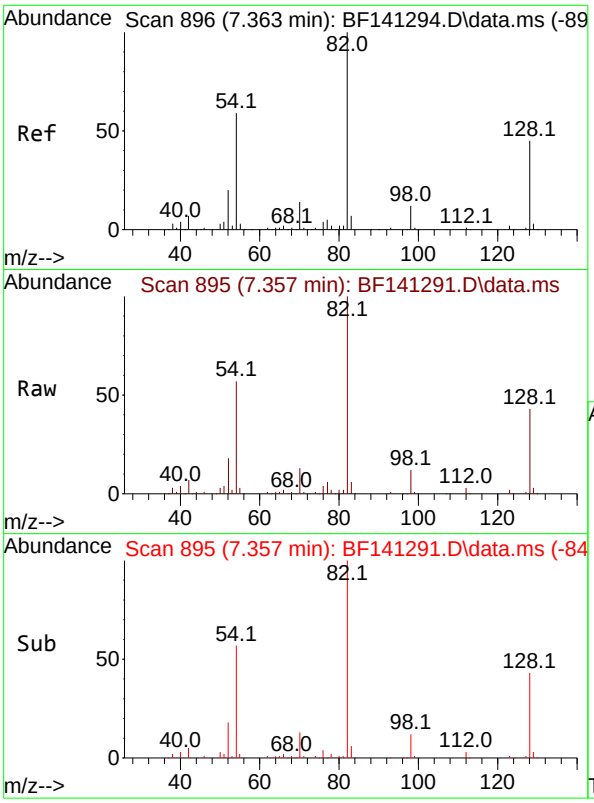


#22
Acetophenone
Concen: 5.774 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:105 Resp: 72756

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.8	10.2
51	38.9	32.6	49.0
120	21.4	17.4	26.0



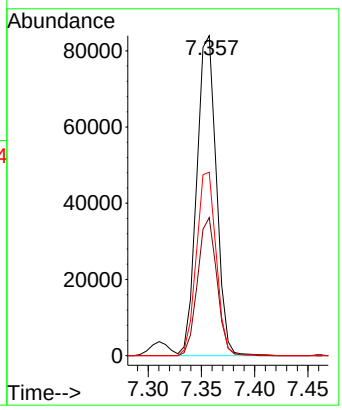


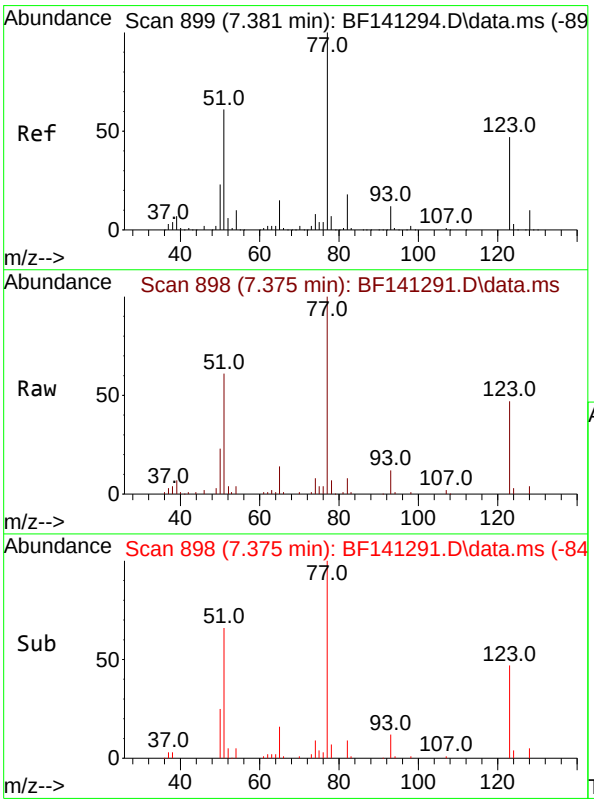
#23
Nitrobenzene-d5
Concen: 10.719 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 107680

Ion	Ratio	Lower	Upper
82	100		
128	43.2	35.7	53.5
54	57.4	47.1	70.7

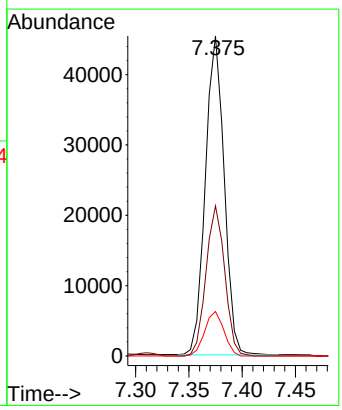


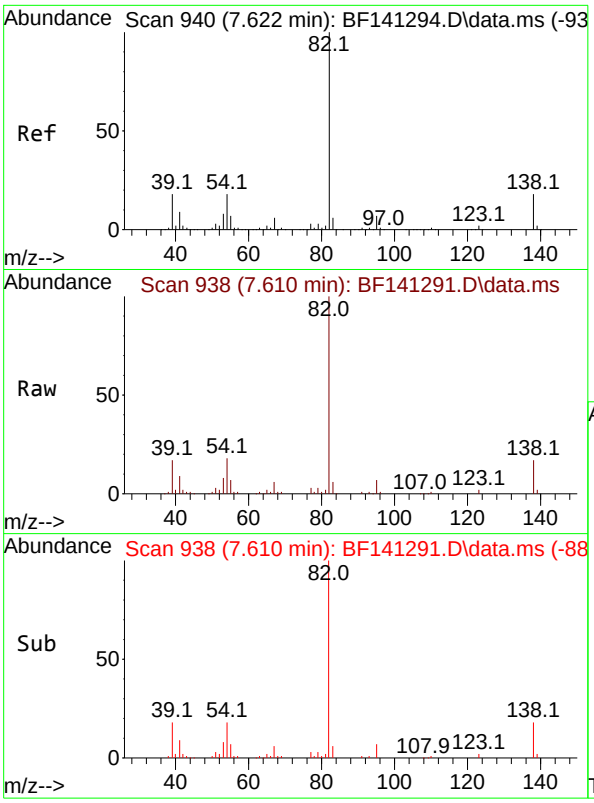


#24
Nitrobenzene
Concen: 5.337 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 77 Resp: 55610

Ion	Ratio	Lower	Upper
77	100		
123	46.9	37.3	55.9
65	13.9	11.8	17.6



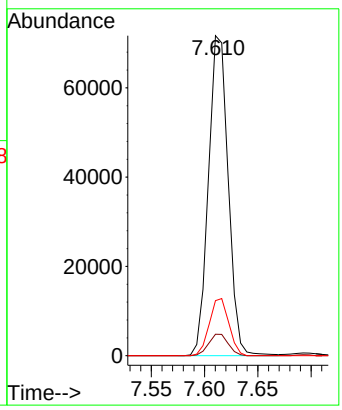


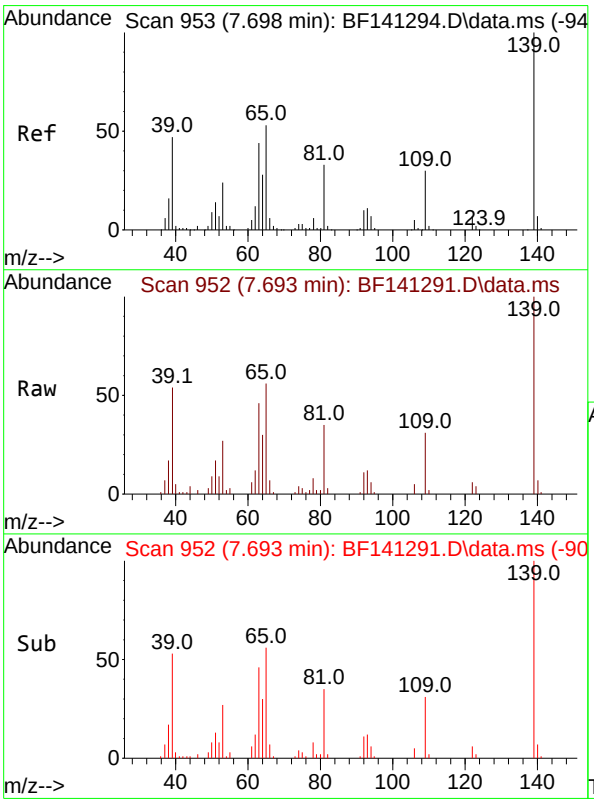
#25
Isophorone
Concen: 5.346 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 92818

Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.8	8.6
138	17.2	14.7	22.1

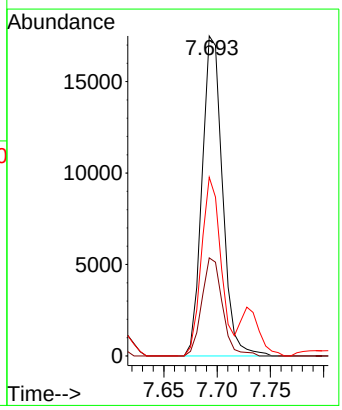


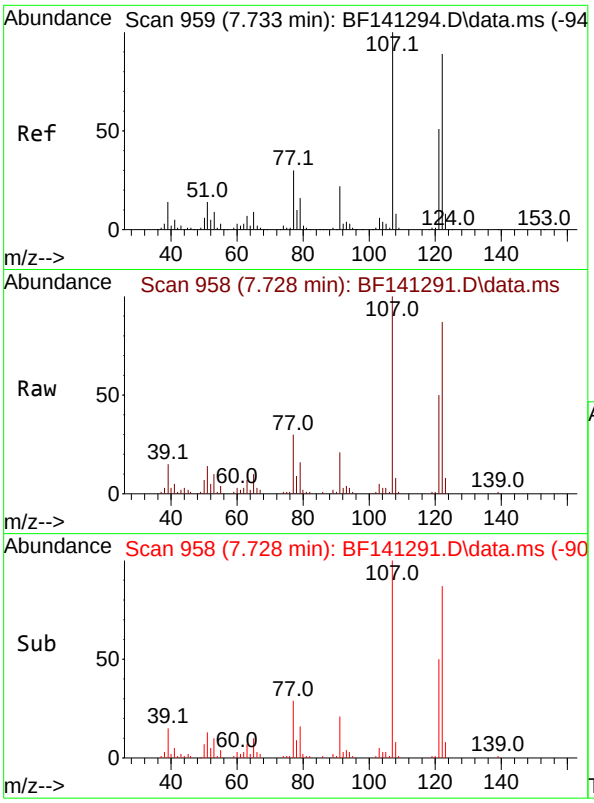


#26
2-Nitrophenol
Concen: 4.789 ng
RT: 7.693 min Scan# 952
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:139 Resp: 23372

Ion	Ratio	Lower	Upper
139	100		
109	30.7	23.8	35.6
65	55.8	42.2	63.4



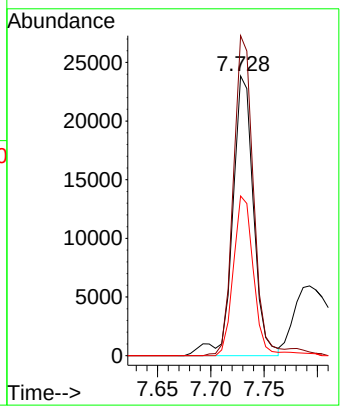


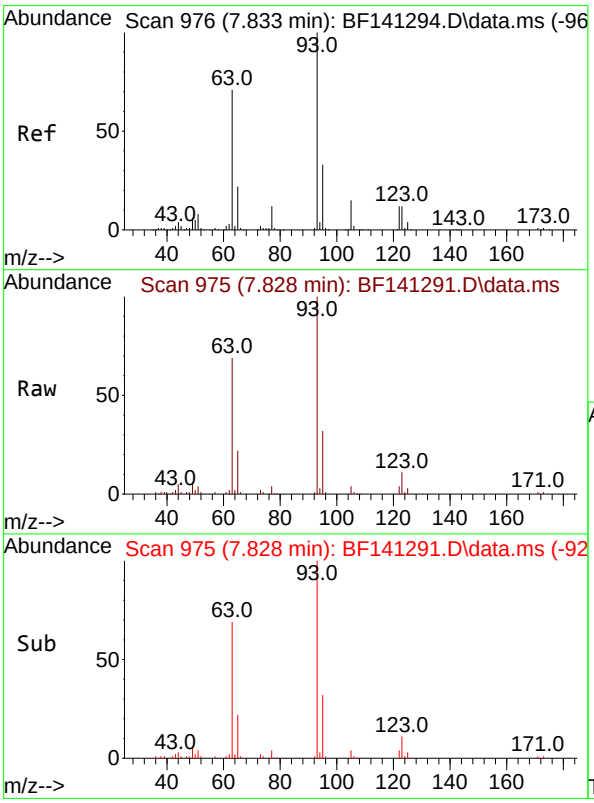
#27
2,4-Dimethylphenol
Concen: 5.205 ng
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 32462

Ion	Ratio	Lower	Upper
122	100		
107	114.4	89.9	134.9
121	57.1	46.1	69.1

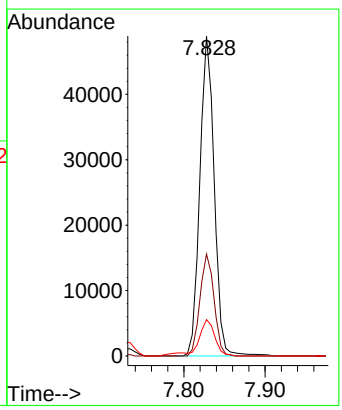


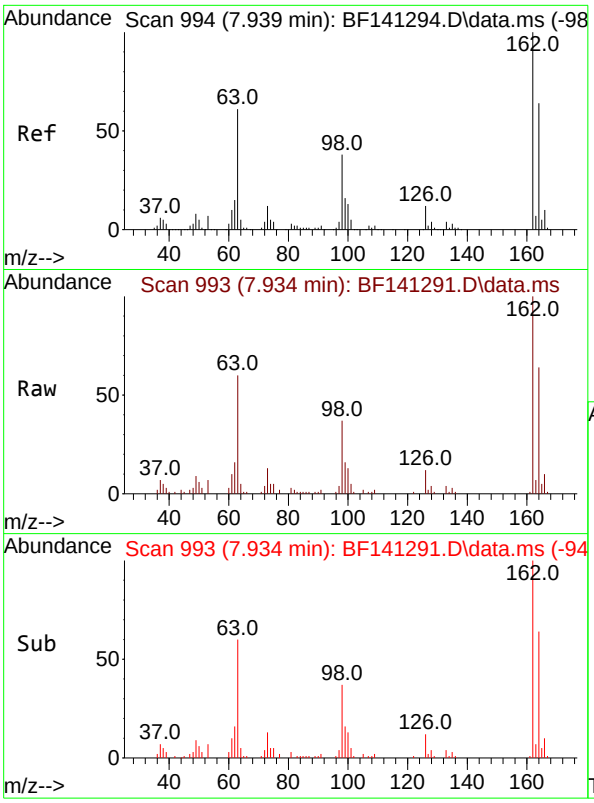


#28
bis(2-Chloroethoxy)methane
Concen: 5.449 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 93 Resp: 60286

Ion	Ratio	Lower	Upper
93	100		
95	31.9	26.2	39.2
123	11.3	10.2	15.4



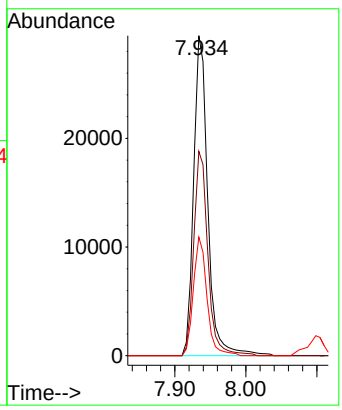


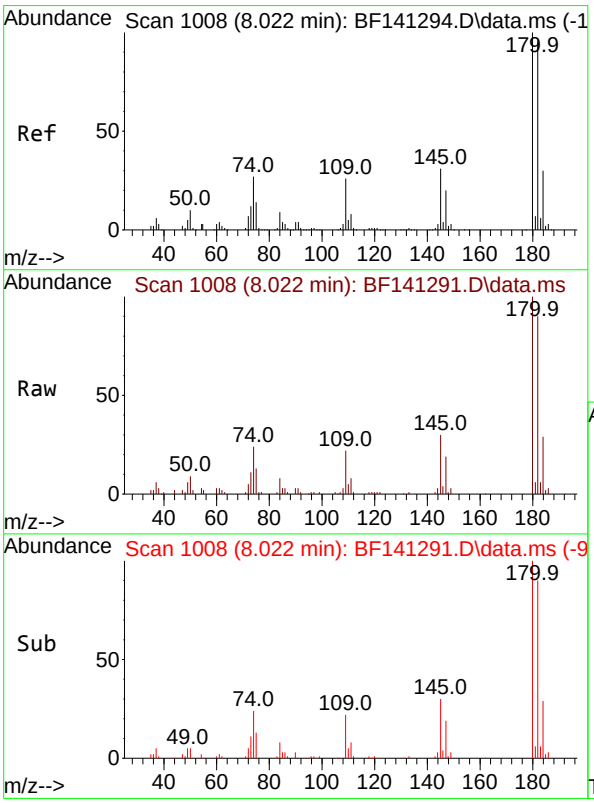
#29
2,4-Dichlorophenol
Concen: 5.360 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 40847

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.2	84.2
98	37.0	18.2	58.2

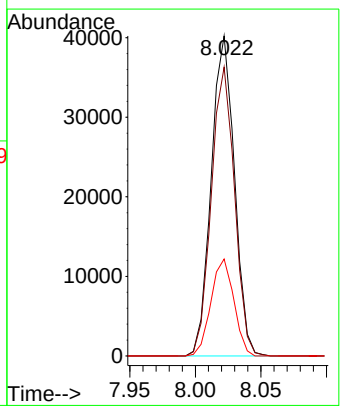


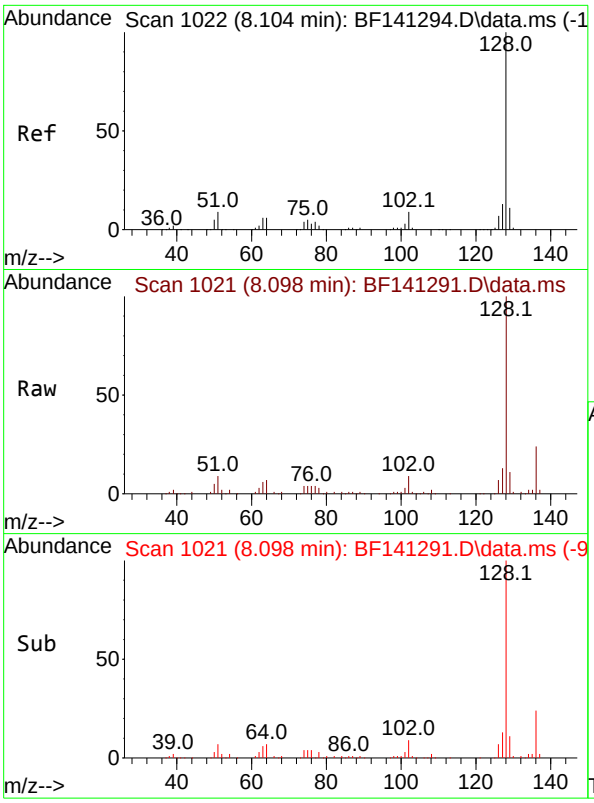


#30
1,2,4-Trichlorobenzene
Concen: 5.661 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:180 Resp: 49479

Ion	Ratio	Lower	Upper
180	100		
182	90.2	76.4	114.6
145	30.3	24.9	37.3



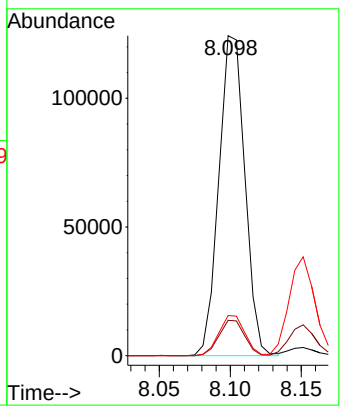


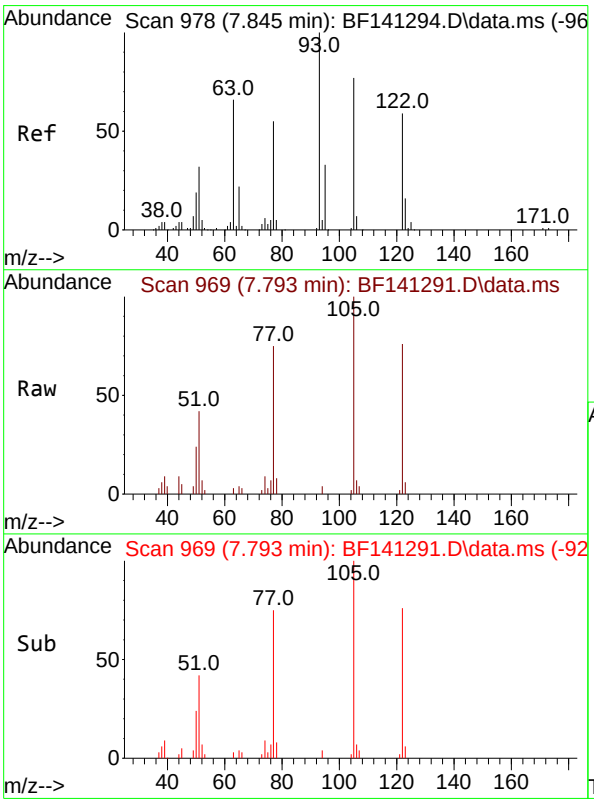
#31
Naphthalene
Concen: 5.672 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 158560

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	12.6	10.6	15.8

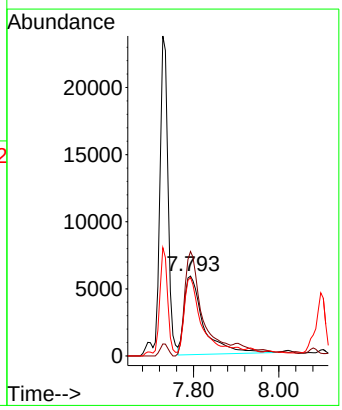


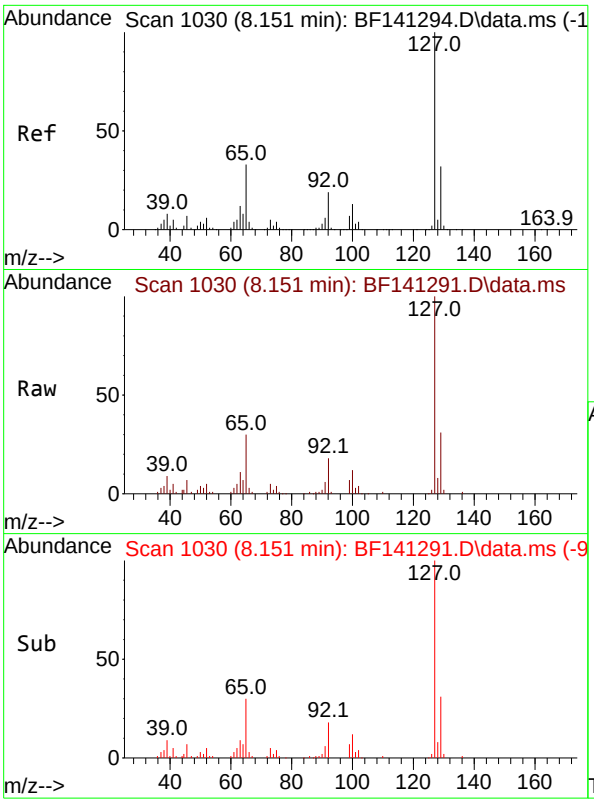


#32
Benzoic acid
Concen: 3.281 ng
RT: 7.793 min Scan# 969
Delta R.T. -0.053 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:122 Resp: 18585

Ion	Ratio	Lower	Upper
122	100		
105	130.7	103.4	143.4
77	98.2	70.9	110.9



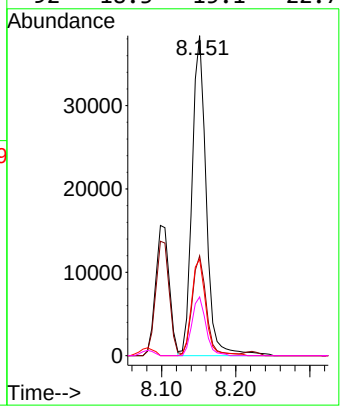


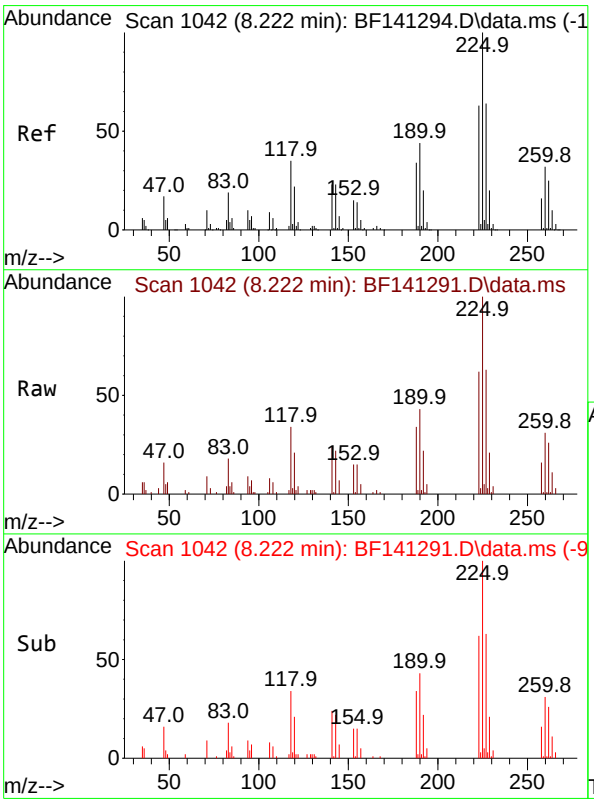
#33
4-Chloroaniline
Concen: 5.405 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 50760

Ion	Ratio	Lower	Upper
127	100		
129	31.2	25.7	38.5
65	30.1	26.4	39.6
92	18.3	15.1	22.7

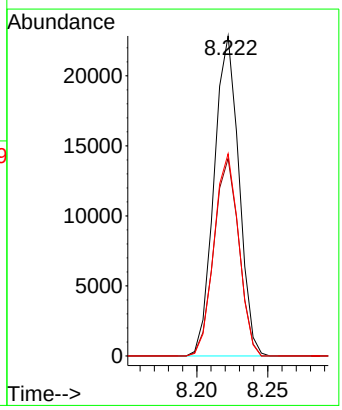


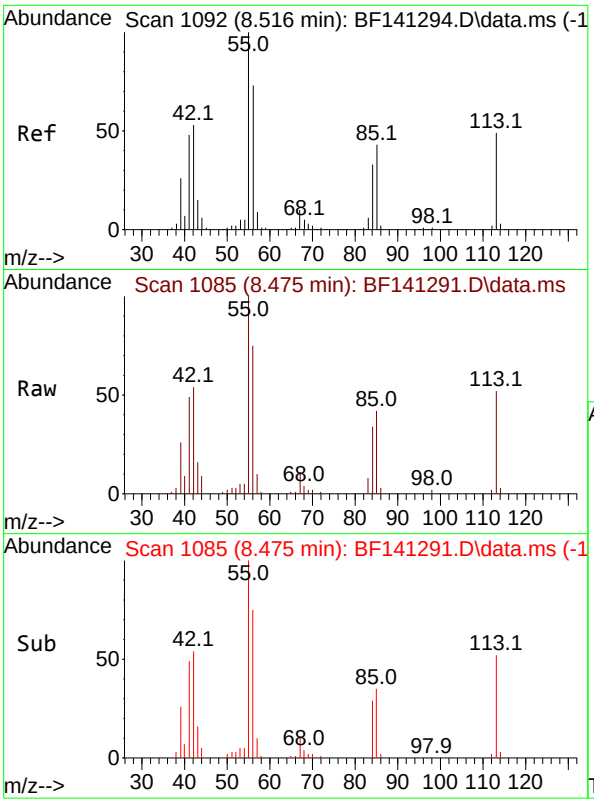


#34
Hexachlorobutadiene
Concen: 5.419 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:225 Resp: 27720

Ion	Ratio	Lower	Upper
225	100		
223	61.7	50.4	75.6
227	63.2	51.3	76.9



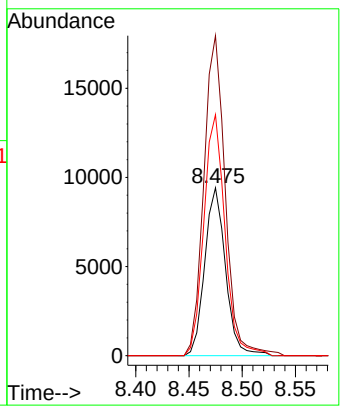


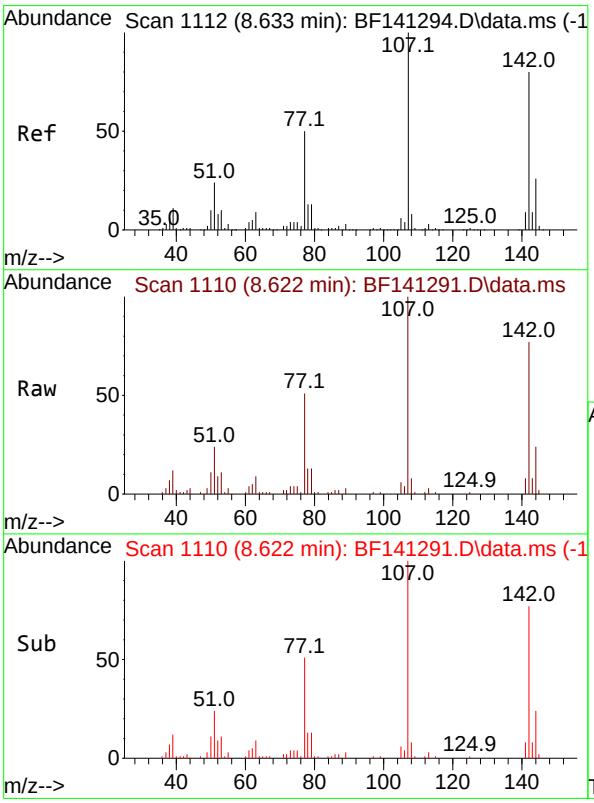
#35
Caprolactam
Concen: 5.204 ng
RT: 8.475 min Scan# 1
Delta R.T. -0.041 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 12827

Ion	Ratio	Lower	Upper
113	100		
55	190.7	182.9	222.9
56	143.6	127.9	167.9

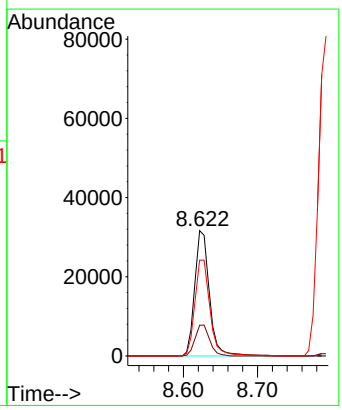


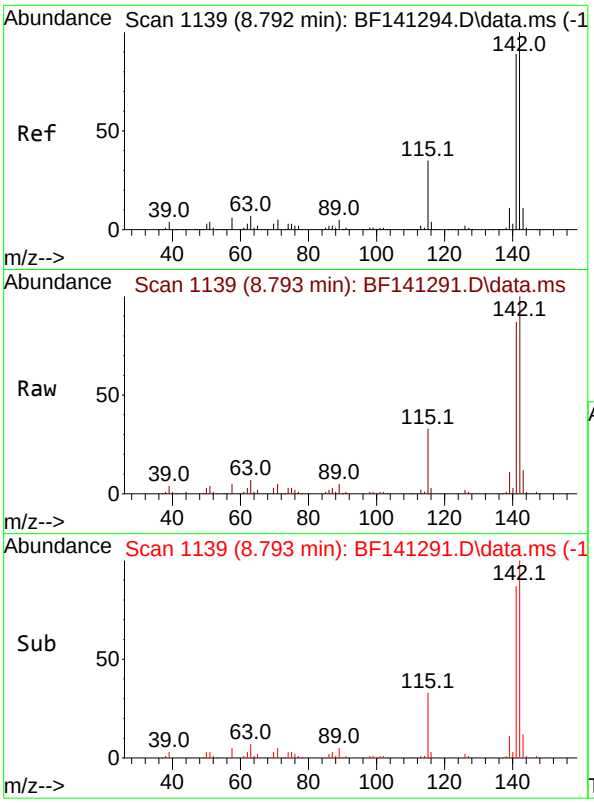


#36
4-Chloro-3-methylphenol
Concen: 5.334 ng
RT: 8.622 min Scan# 1110
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:107 Resp: 43627

Ion	Ratio	Lower	Upper
107	100		
144	24.5	20.7	31.1
142	76.6	63.8	95.8



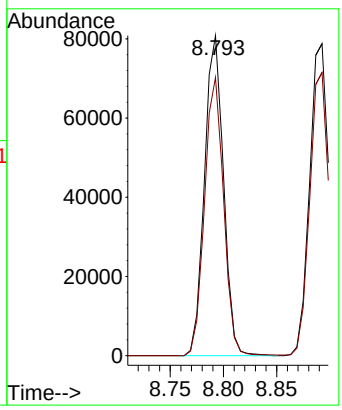


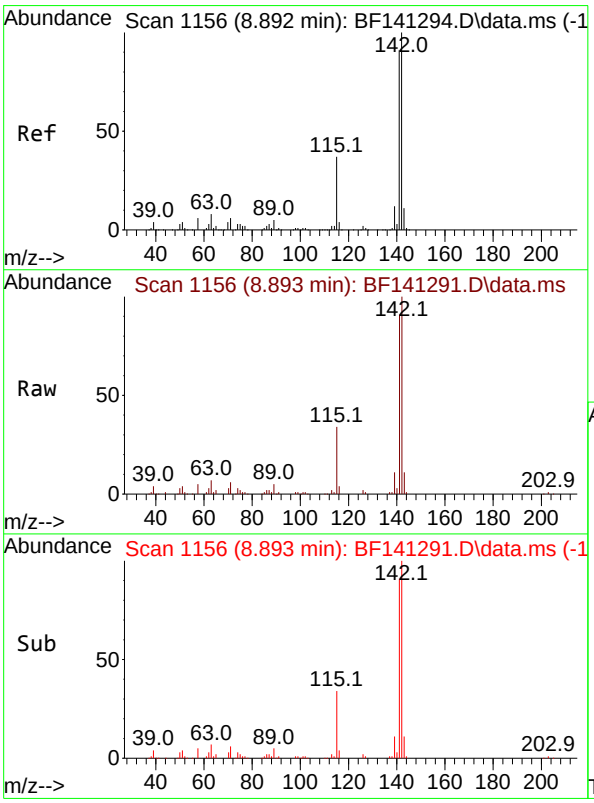
#37
2-Methylnaphthalene
Concen: 5.634 ng
RT: 8.793 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 100305

Ion	Ratio	Lower	Upper
142	100		
141	86.9	71.3	106.9

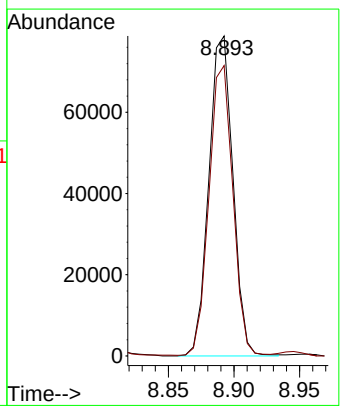


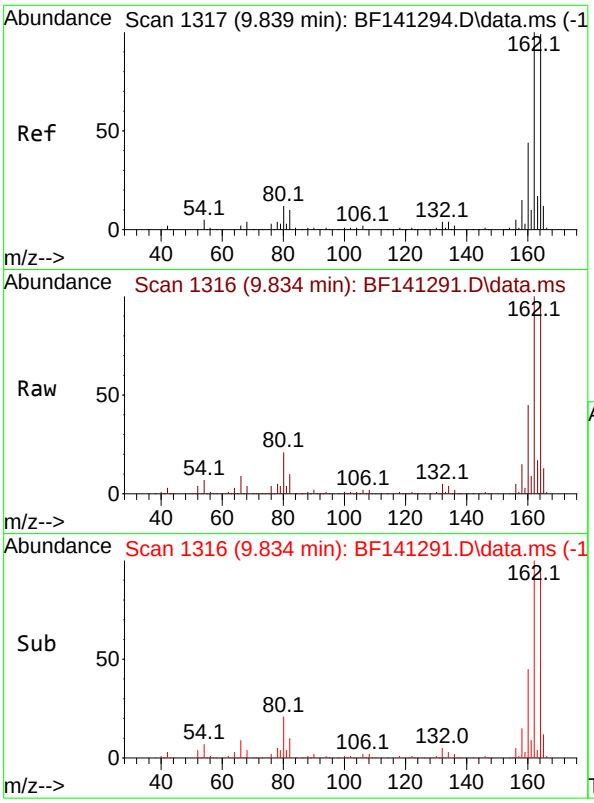


#38
1-Methylnaphthalene
Concen: 5.767 ng
RT: 8.893 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:142 Resp: 100569

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.2	109.8



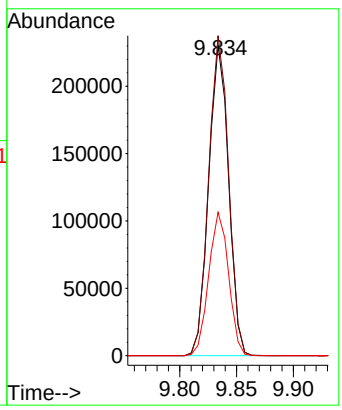


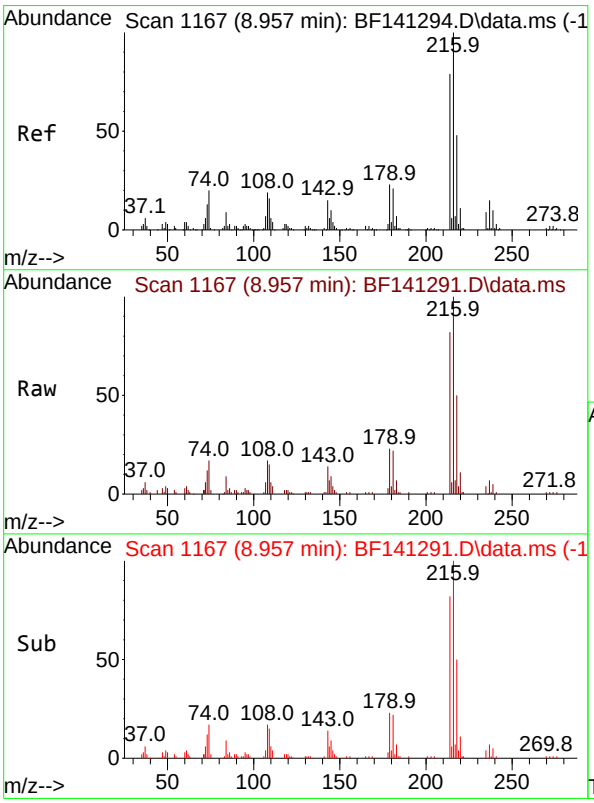
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 281034

Ion	Ratio	Lower	Upper
164	100		
162	103.1	80.6	121.0
160	46.2	35.8	53.6

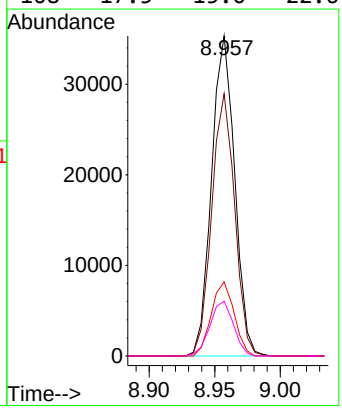


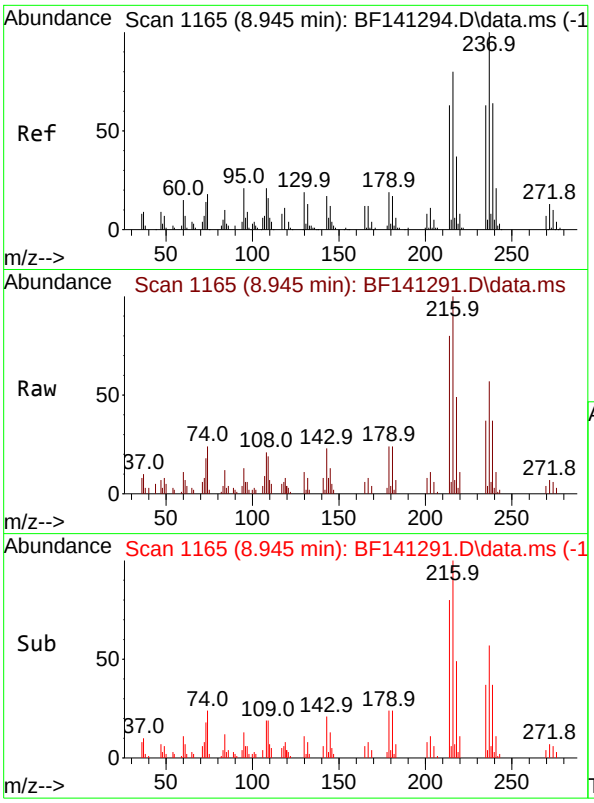


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.410 ng
RT: 8.957 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:216 Resp: 43228

Ion	Ratio	Lower	Upper
216	100		
214	81.4	63.2	94.8
179	22.9	17.8	26.8
108	17.5	15.0	22.6



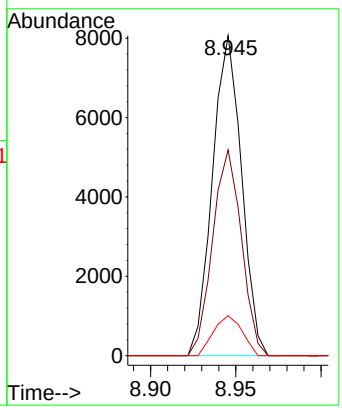


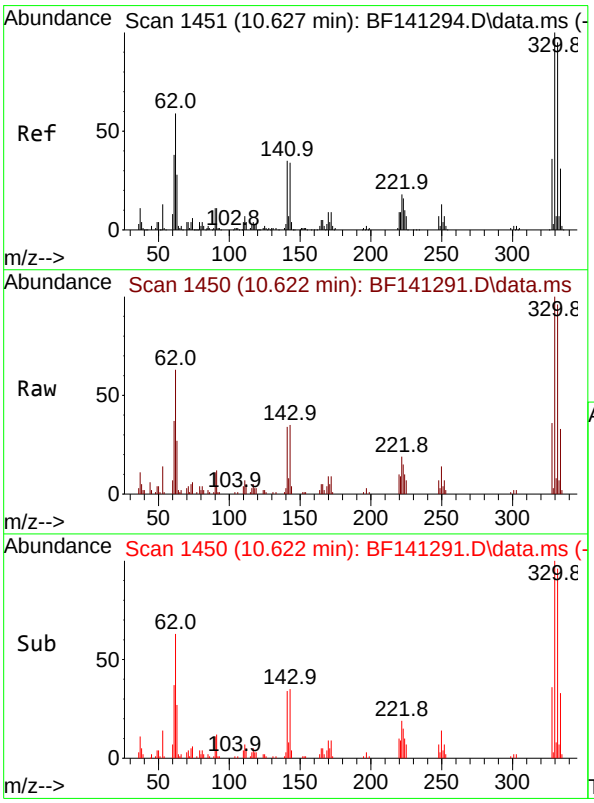
#41
Hexachlorocyclopentadiene
Concen: 3.985 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 9555

Ion	Ratio	Lower	Upper
237	100		
235	64.3	42.9	82.9
272	12.5	0.0	32.8

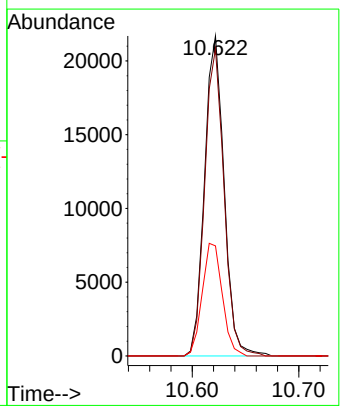


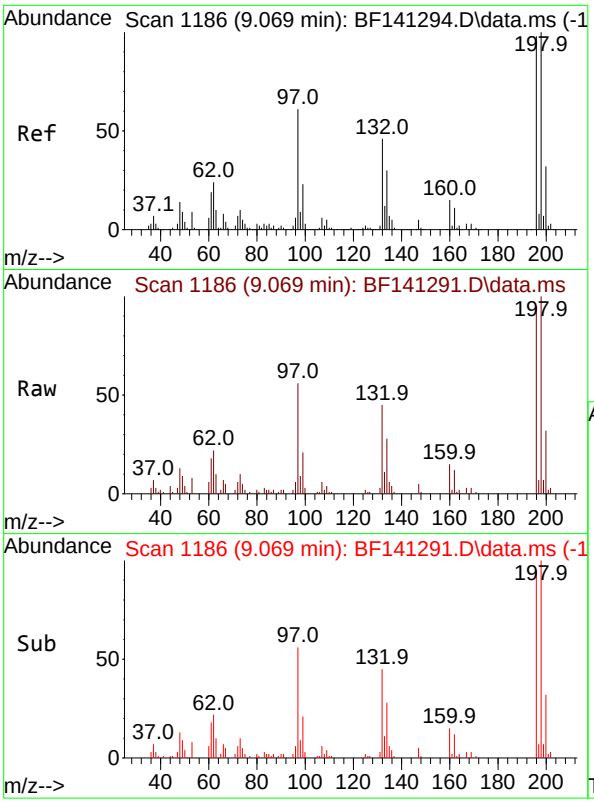


#42
2,4,6-Tribromophenol
Concen: 10.855 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:330 Resp: 27799

Ion	Ratio	Lower	Upper
330	100		
332	94.8	76.1	114.1
141	36.2	28.8	43.2



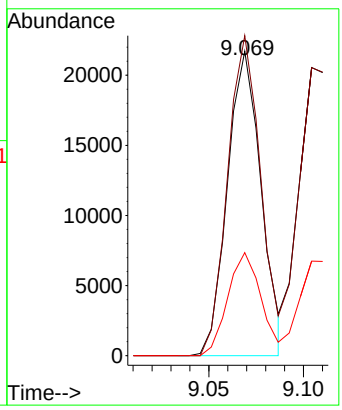


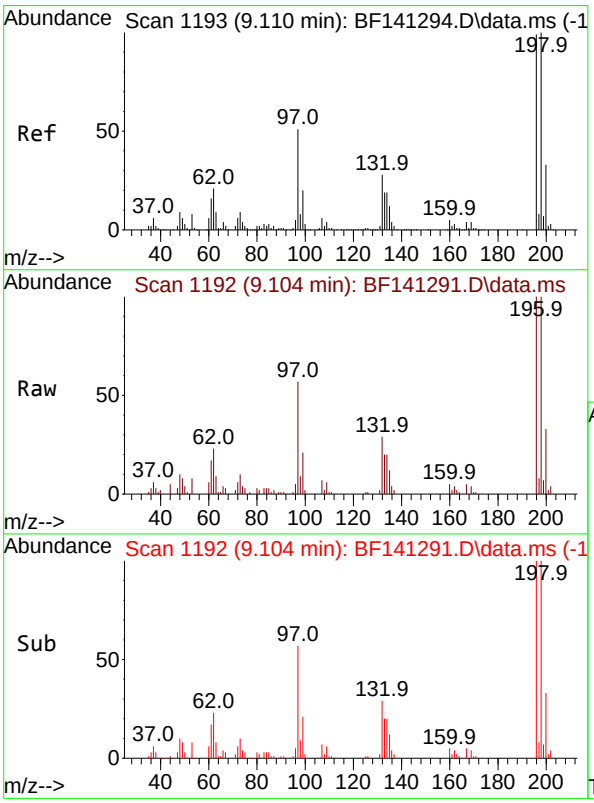
#43
2,4,6-Trichlorophenol
Concen: 5.136 ng
RT: 9.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 26790

Ion	Ratio	Lower	Upper
196	100		
198	105.1	81.8	122.6
200	33.8	26.3	39.5

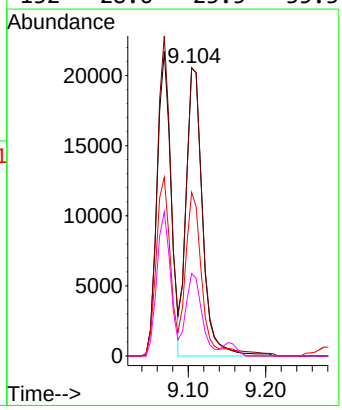


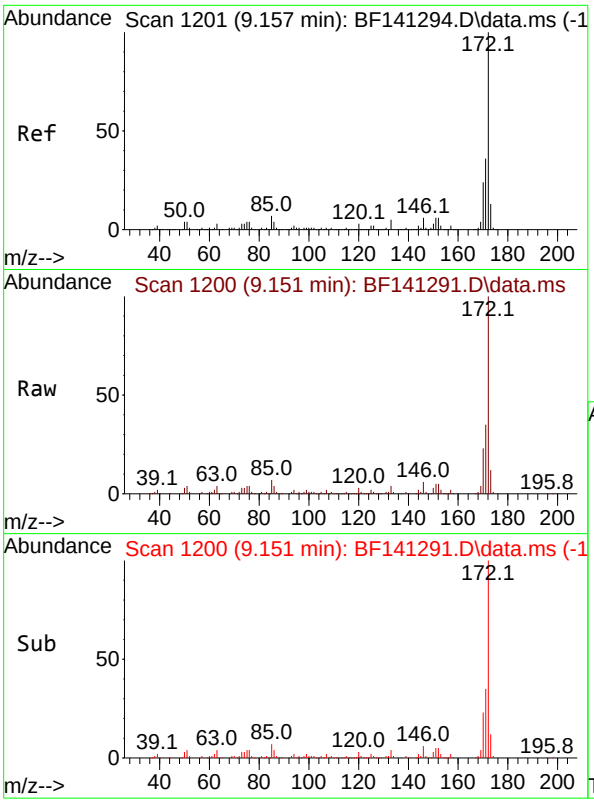


#44
2,4,5-Trichlorophenol
Concen: 5.309 ng
RT: 9.104 min Scan# 1192
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:196 Resp: 30127

Ion	Ratio	Lower	Upper
196	100		
198	100.0	80.5	120.7
97	56.8	42.8	64.2
132	28.6	23.5	35.3



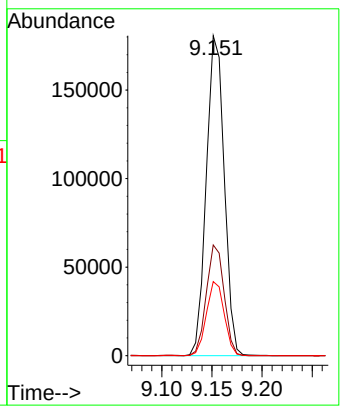


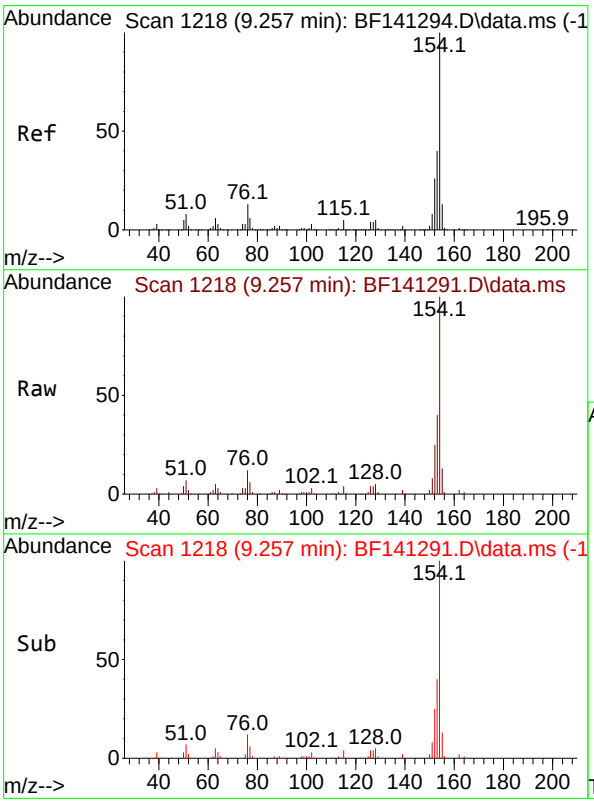
#45
2-Fluorobiphenyl
Concen: 12.320 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 224446

Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.8	43.2
170	23.1	19.0	28.6

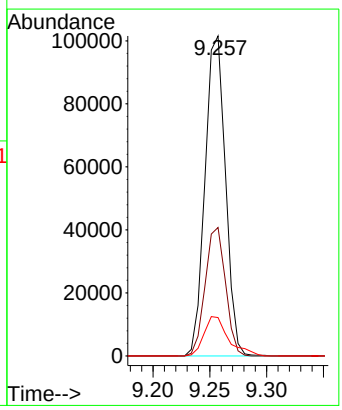


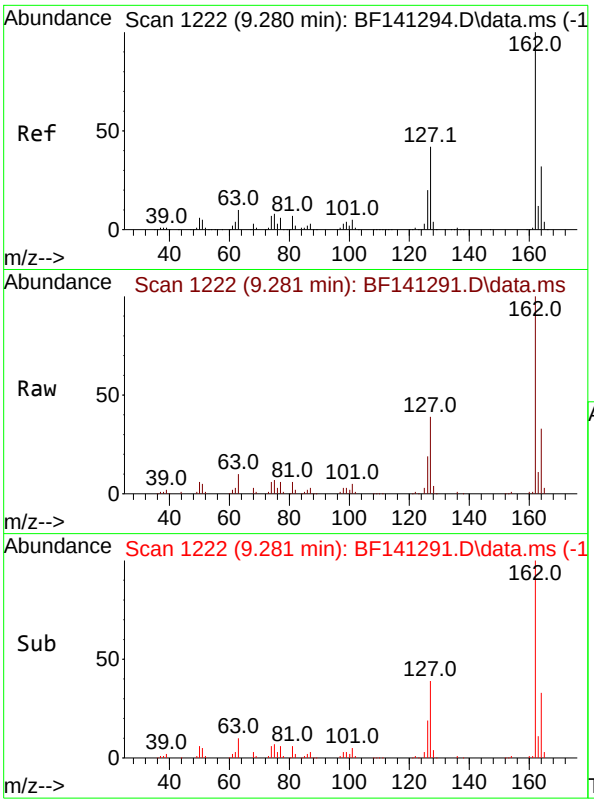


#46
1,1'-Biphenyl
Concen: 5.801 ng
RT: 9.257 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:154 Resp: 127187

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.0	60.0
76	12.0	0.0	32.8



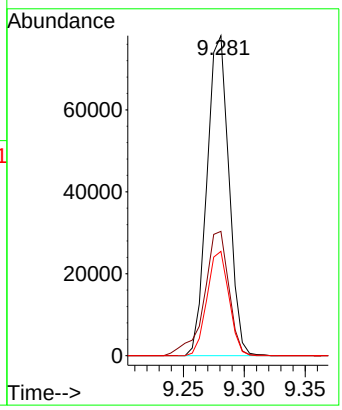


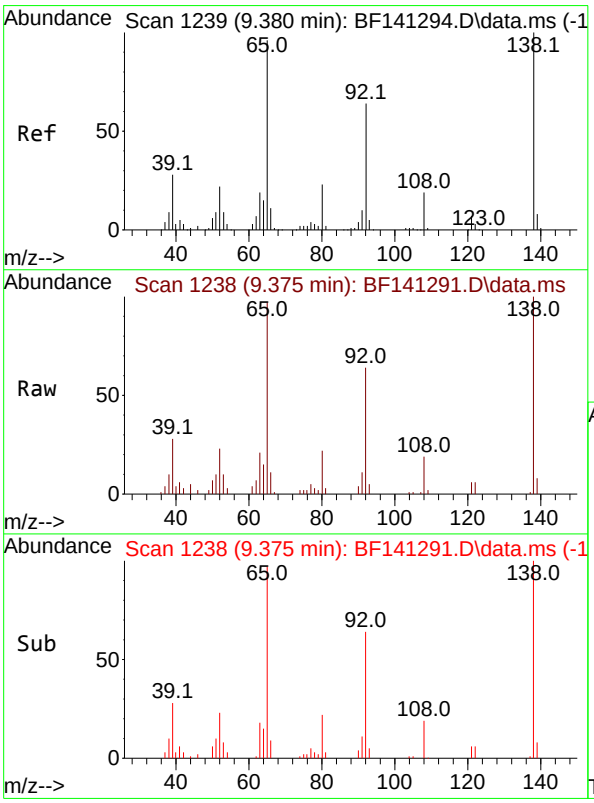
#47
2-Chloronaphthalene
Concen: 5.760 ng
RT: 9.281 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 98081

Ion	Ratio	Lower	Upper
162	100		
127	38.8	33.7	50.5
164	32.6	25.9	38.9

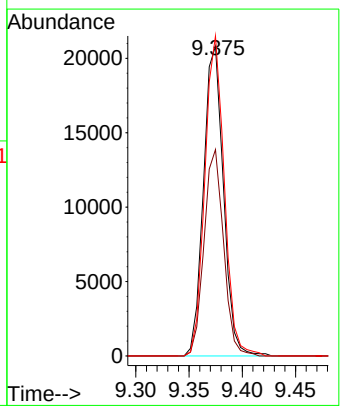


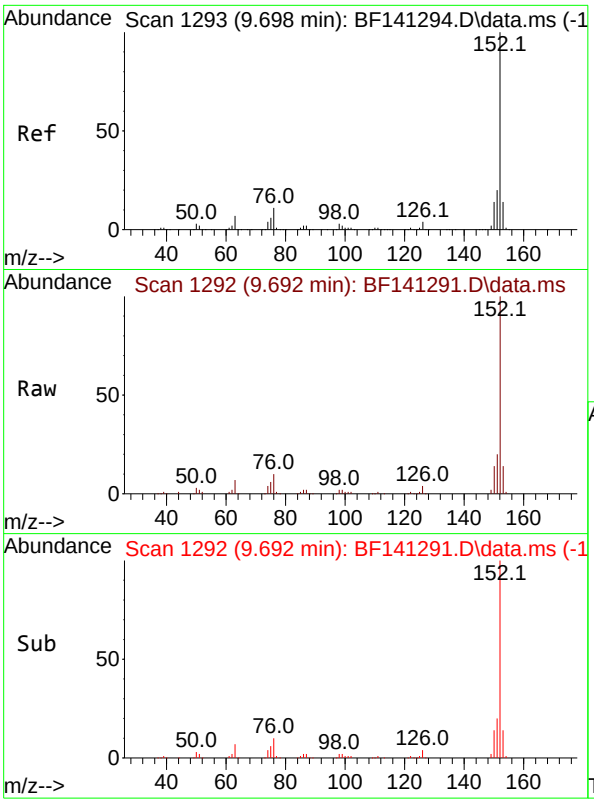


#48
2-Nitroaniline
Concen: 5.056 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 65 Resp: 27154

Ion	Ratio	Lower	Upper
65	100		
92	66.6	53.3	79.9
138	103.3	83.6	125.4



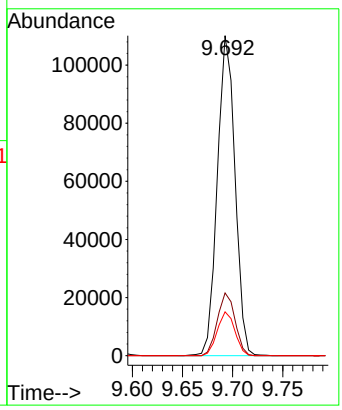


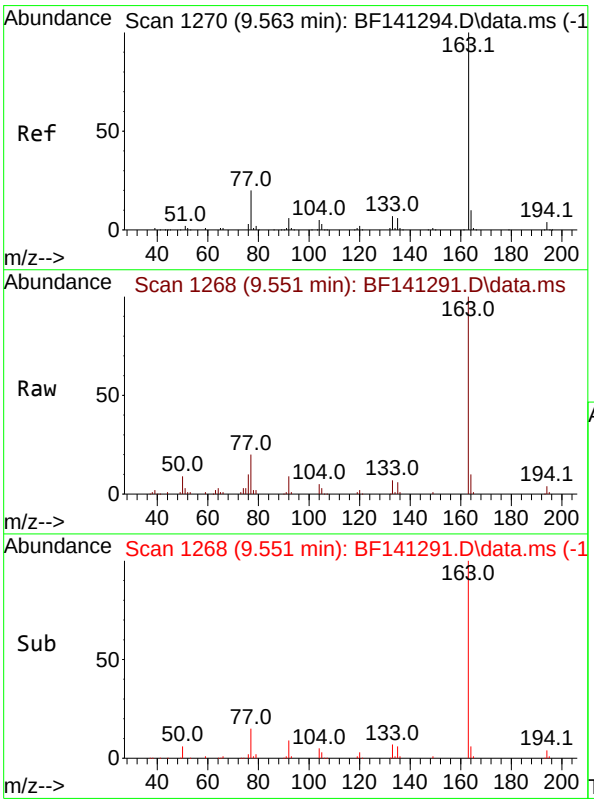
#49
Acenaphthylene
Concen: 5.643 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 134958

Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.2	24.2
153	13.7	11.0	16.6

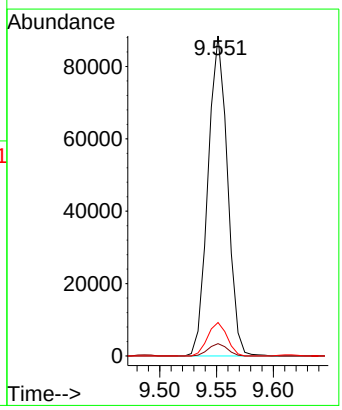


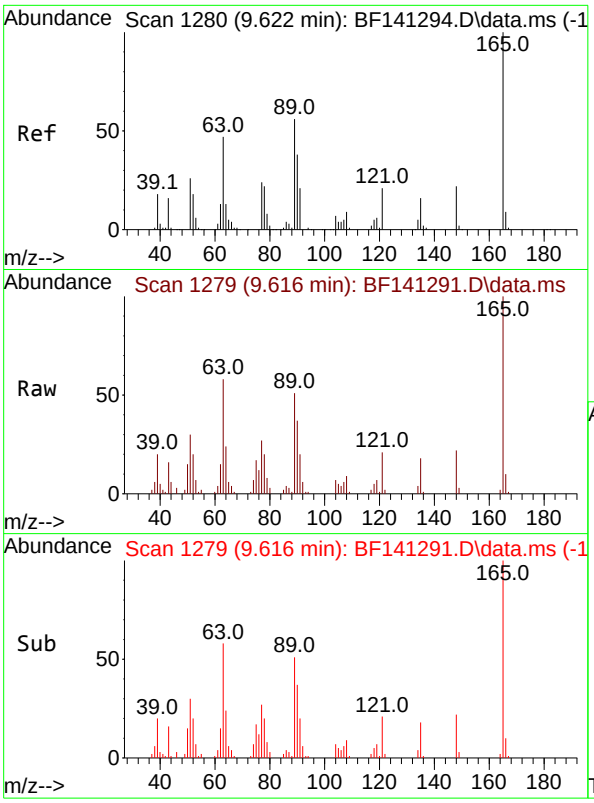


#50
Dimethylphthalate
Concen: 5.584 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:163 Resp: 105240

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.5	8.0	12.0



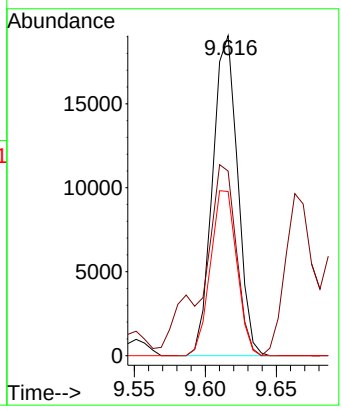


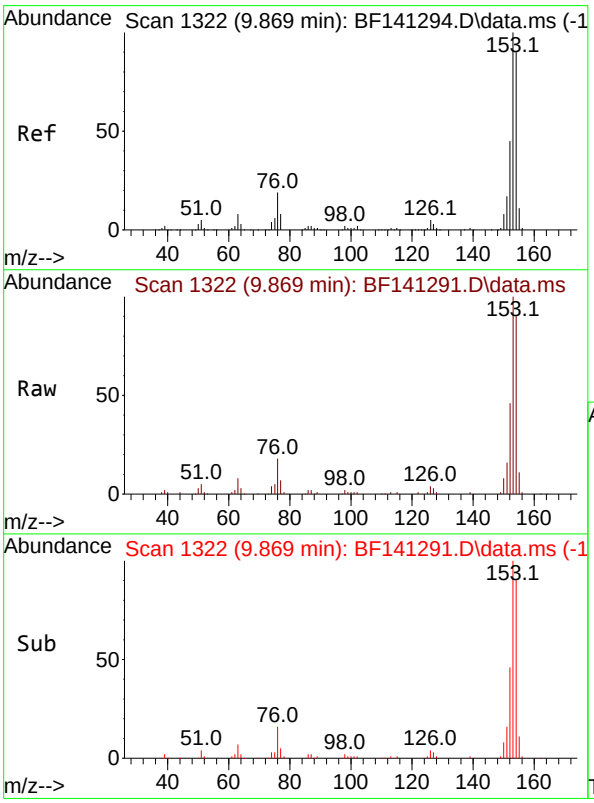
#51
2,6-Dinitrotoluene
Concen: 5.329 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 23372

Ion	Ratio	Lower	Upper
165	100		
63	57.7	48.1	72.1
89	51.3	44.9	67.3

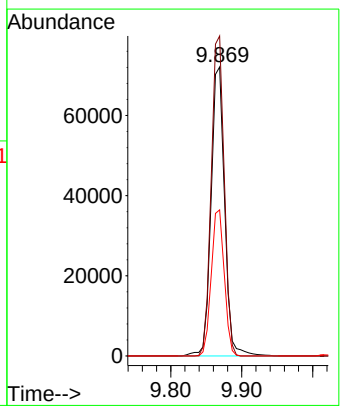


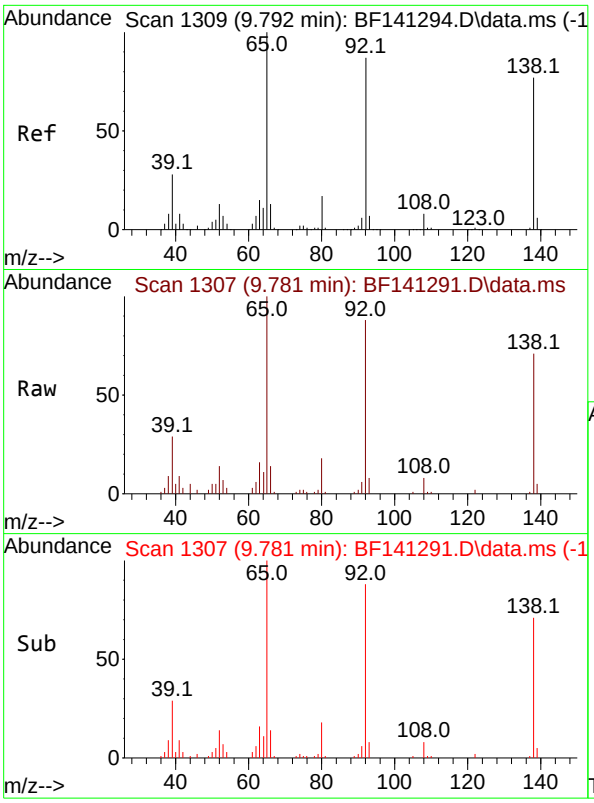


#52
Acenaphthene
Concen: 5.617 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:154 Resp: 95591

Ion	Ratio	Lower	Upper
154	100		
153	110.8	89.0	133.4
152	50.6	40.2	60.4



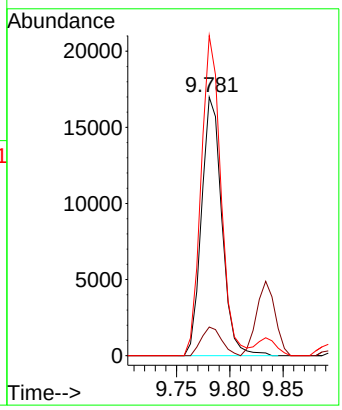


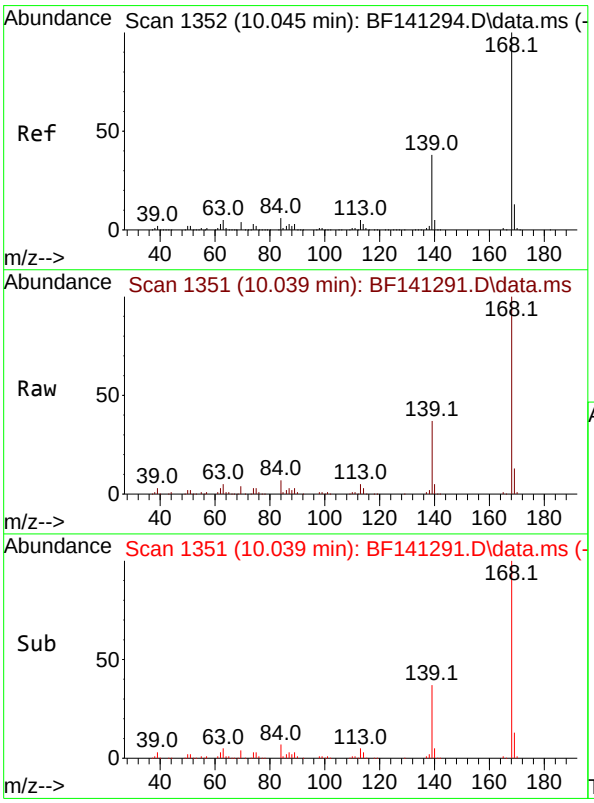
#53
3-Nitroaniline
Concen: 5.206 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 22582

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.6	12.8
92	123.7	91.0	136.6

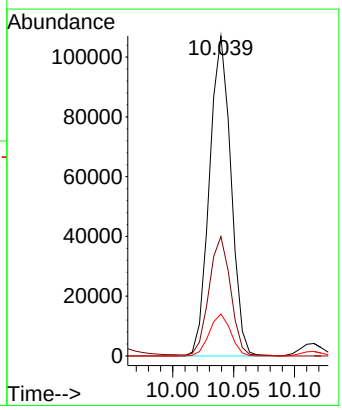


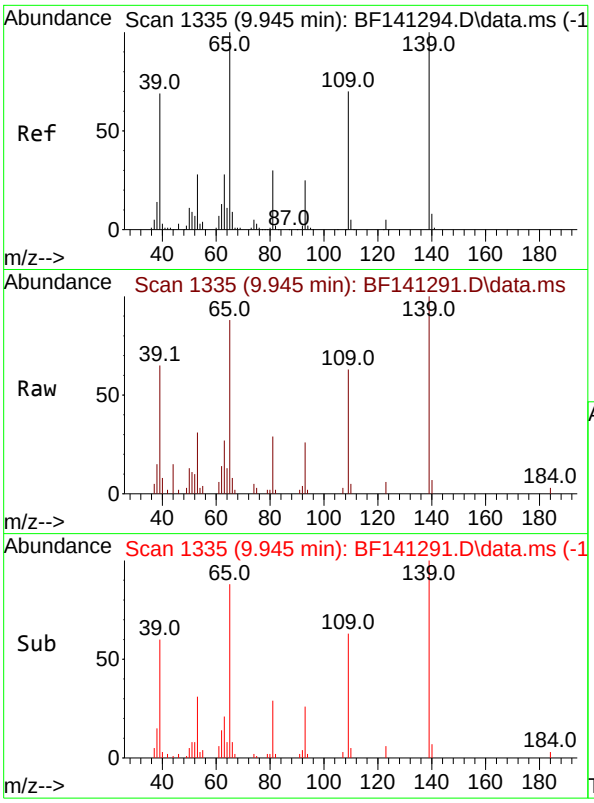


#55
Dibenzofuran
Concen: 5.769 ng
RT: 10.039 min Scan# 1351
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:168 Resp: 131288

Ion	Ratio	Lower	Upper
168	100		
139	37.3	30.6	46.0
169	13.1	10.8	16.2



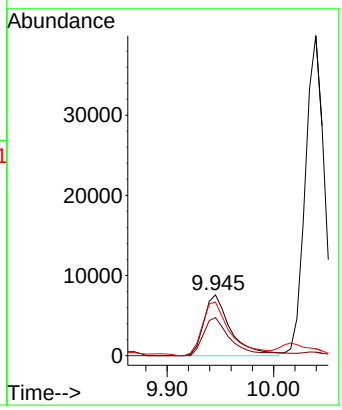


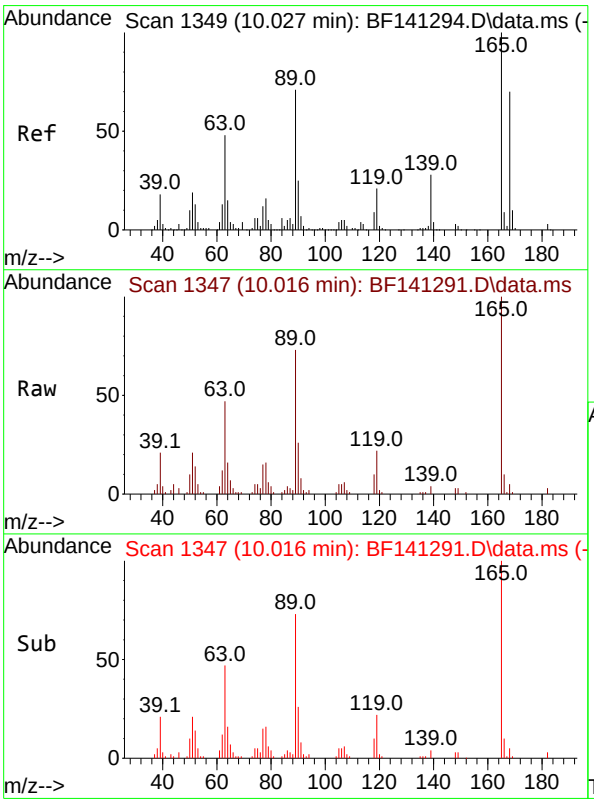
#56
4-Nitrophenol
Concen: 4.226 ng
RT: 9.945 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:139 Resp: 13160

Ion	Ratio	Lower	Upper
139	100		
109	62.7	50.2	90.2
65	88.2	80.6	120.6

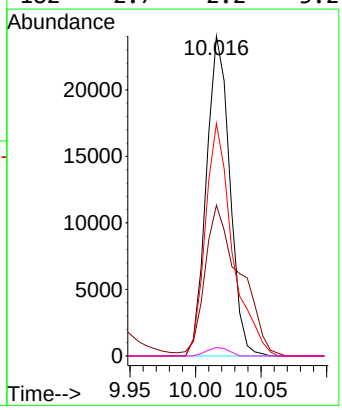


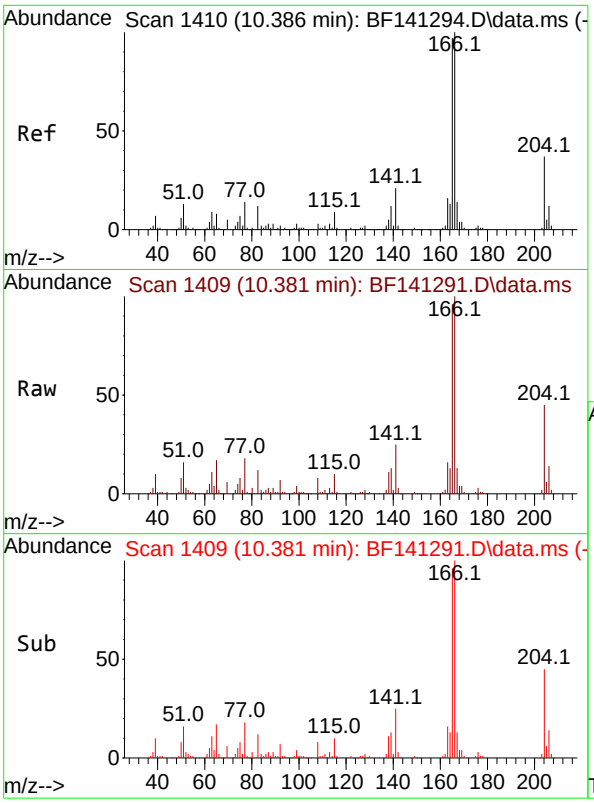


#57
2,4-Dinitrotoluene
Concen: 5.268 ng
RT: 10.016 min Scan# 1347
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:165 Resp: 29799

Ion	Ratio	Lower	Upper
165	100		
63	47.1	39.2	58.8
89	72.7	56.9	85.3
182	2.7	2.2	3.2



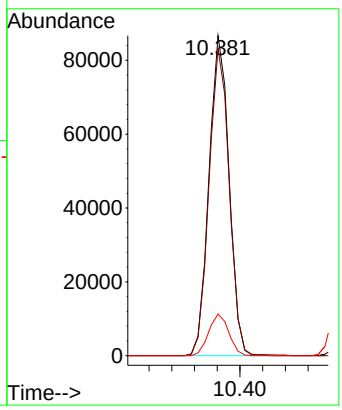


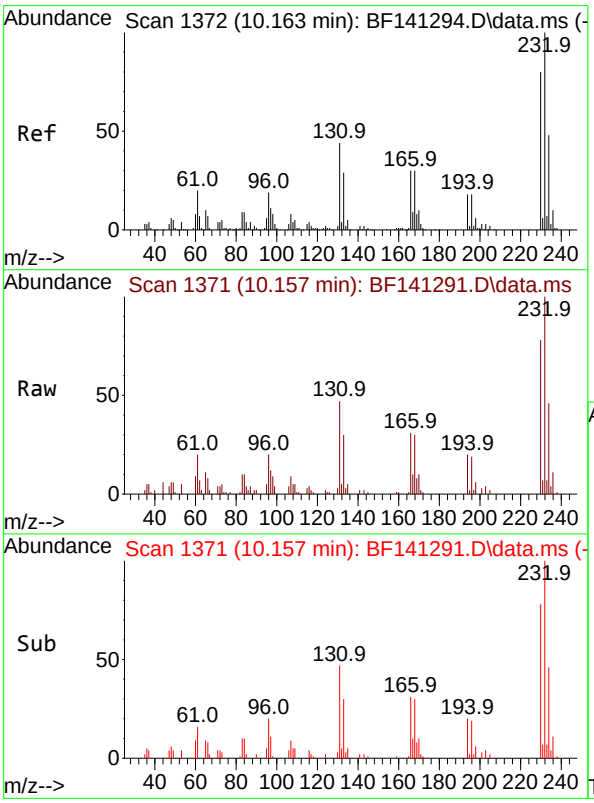
#58
Fluorene
Concen: 6.002 ng
RT: 10.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 106198

Ion	Ratio	Lower	Upper
166	100		
165	96.0	77.5	116.3
167	13.0	10.9	16.3

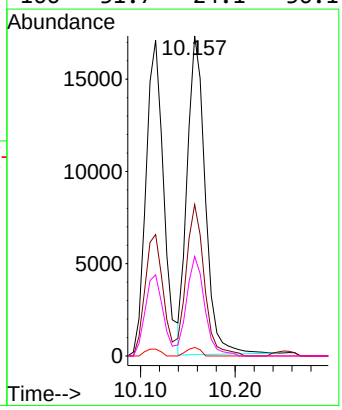


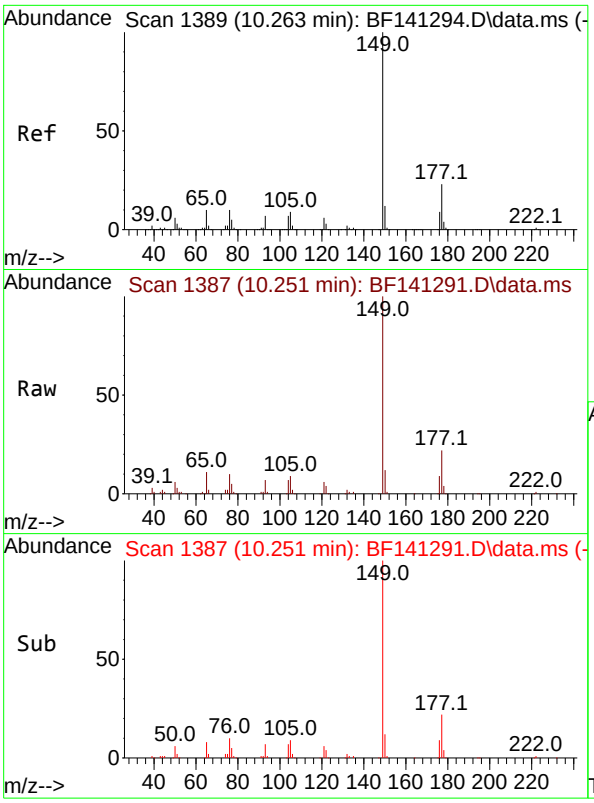


#59
2,3,4,6-Tetrachlorophenol
Concen: 5.090 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:232 Resp: 22818

Ion	Ratio	Lower	Upper
232	100		
131	48.3	36.4	54.6
130	2.1	1.9	2.9
166	31.7	24.1	36.1



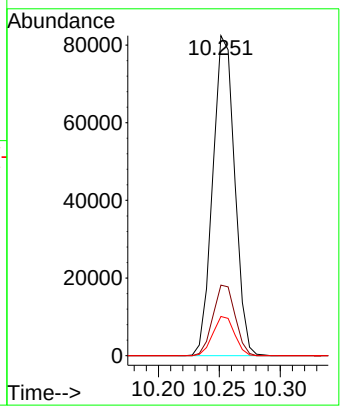


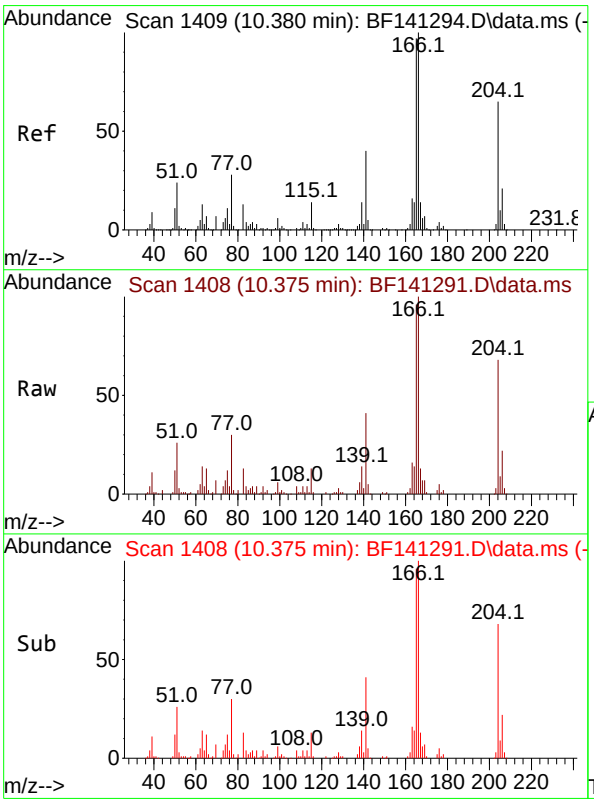
#60
Diethylphthalate
Concen: 5.660 ng
RT: 10.251 min Scan# 1
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 103307

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.5	27.7
150	12.3	10.0	15.0

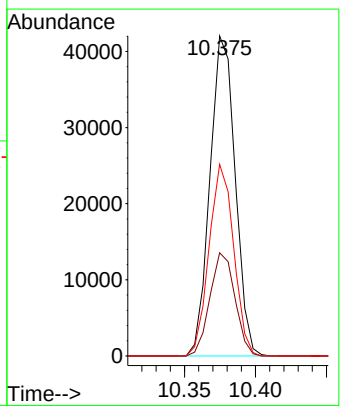


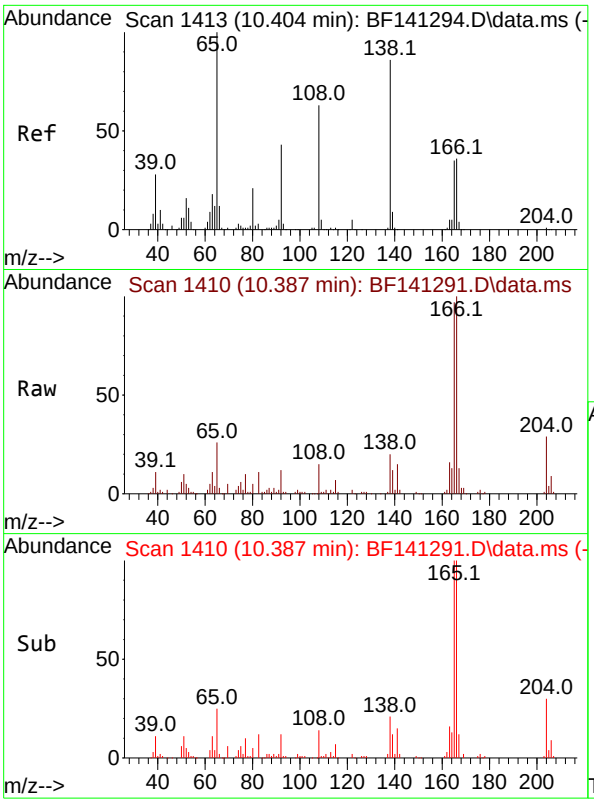


#61
4-Chlorophenyl-phenylether
Concen: 6.007 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:204 Resp: 51875

Ion	Ratio	Lower	Upper
204	100		
206	32.3	25.9	38.9
141	59.9	49.5	74.3



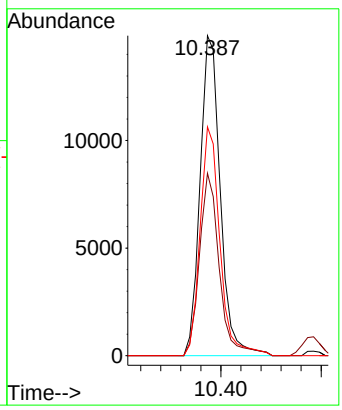


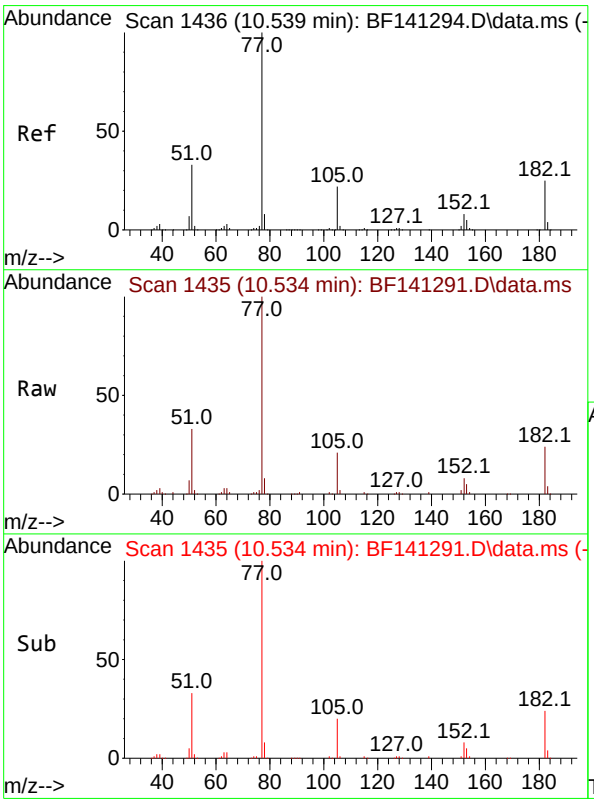
#62
4-Nitroaniline
Concen: 5.008 ng
RT: 10.387 min Scan# 14
Delta R.T. -0.017 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 20870

Ion	Ratio	Lower	Upper
138	100		
92	57.0	30.1	70.1
108	71.5	53.1	93.1

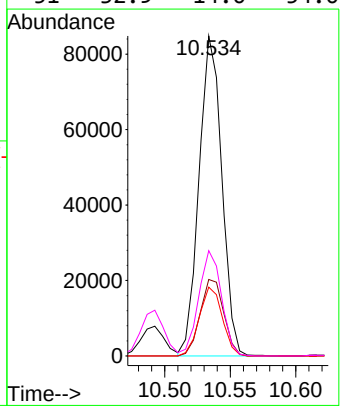


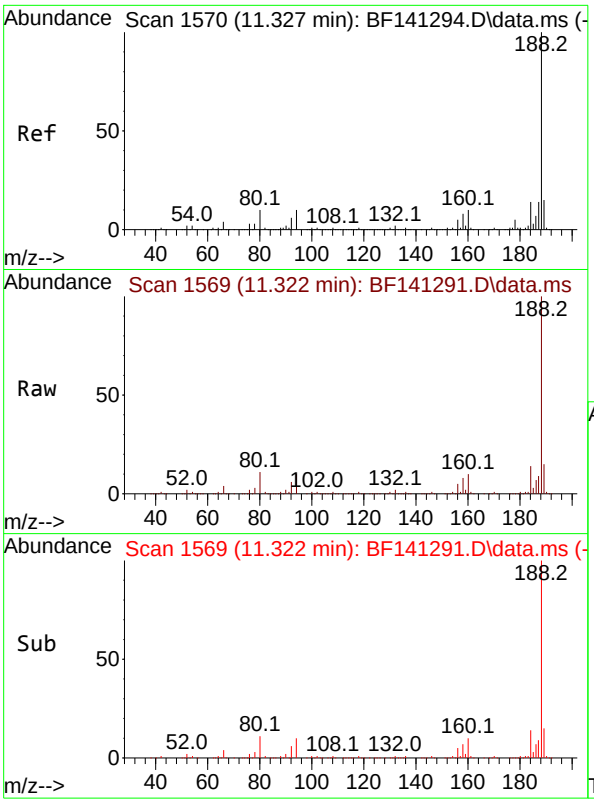


#63
Azobenzene
Concen: 5.623 ng
RT: 10.534 min Scan# 1435
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 77 Resp: 102878

Ion	Ratio	Lower	Upper
77	100		
182	23.9	5.1	45.1
105	21.5	1.8	41.8
51	32.9	14.0	54.0



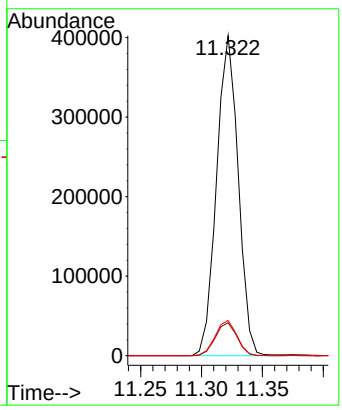


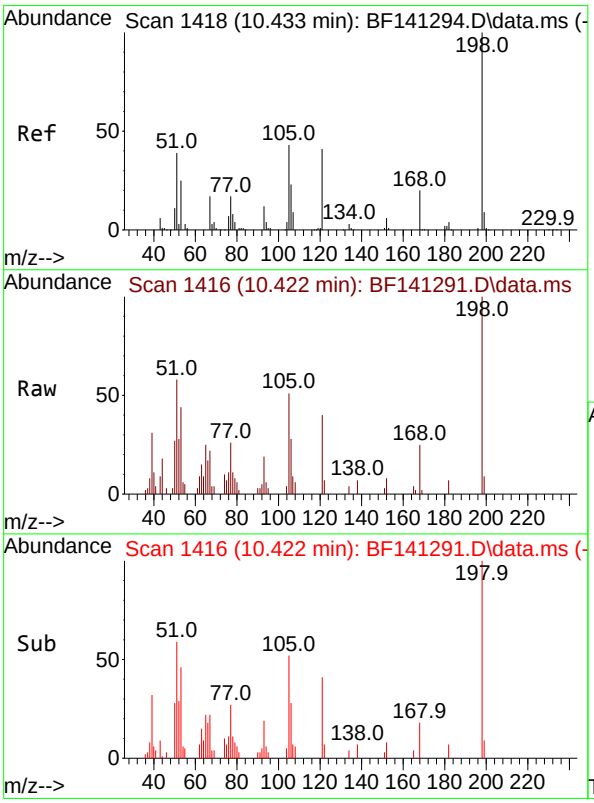
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 497368

Ion	Ratio	Lower	Upper
188	100		
94	10.3	7.8	11.6
80	11.0	8.2	12.4

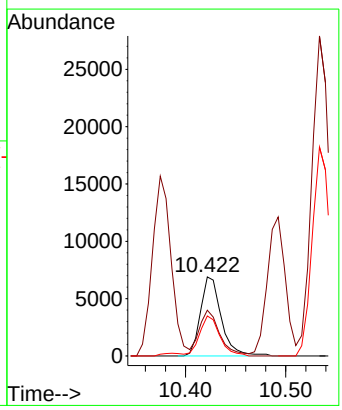


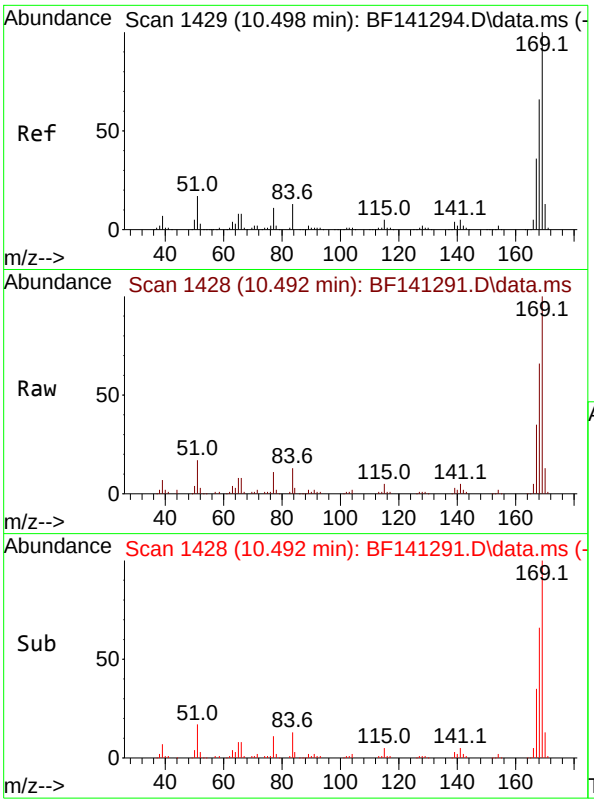


#65
4,6-Dinitro-2-methylphenol
Concen: 3.353 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:198 Resp: 9960

Ion	Ratio	Lower	Upper
198	100		
51	57.8	33.4	73.4
105	50.6	24.4	64.4



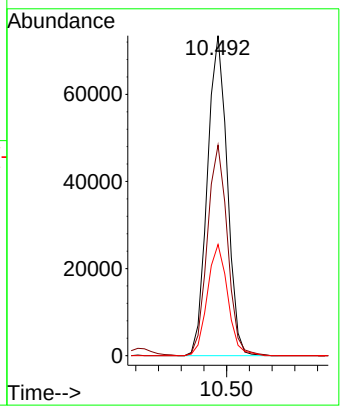


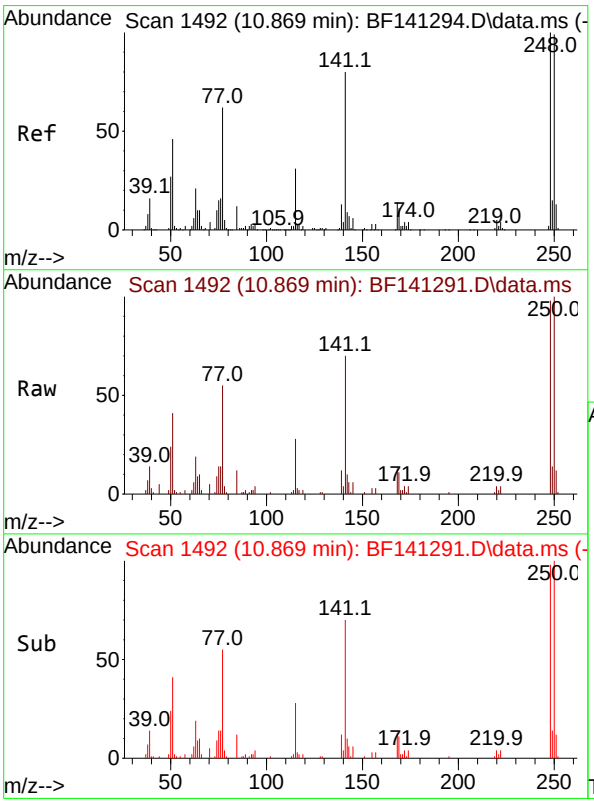
#66
n-Nitrosodiphenylamine
Concen: 5.523 ng
RT: 10.492 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:169 Resp: 89060

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.0	79.4
167	34.7	28.8	43.2

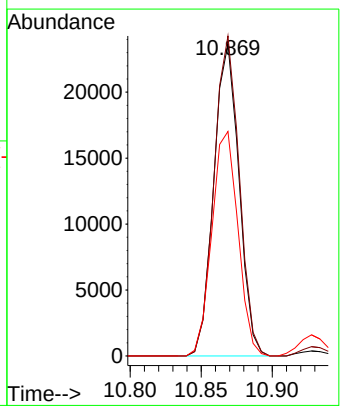


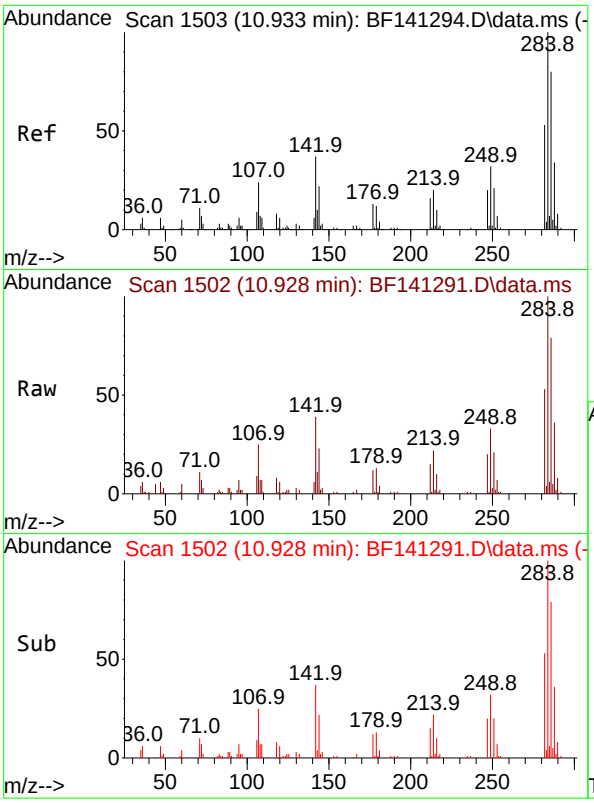


#67
4-Bromophenyl-phenylether
Concen: 5.245 ng
RT: 10.869 min Scan# 1492
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:248 Resp: 29160

Ion	Ratio	Lower	Upper
248	100		
250	102.5	79.0	118.4
141	71.9	63.7	95.5



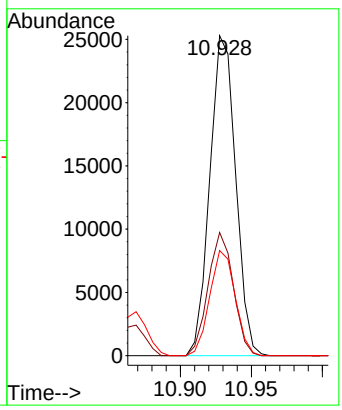


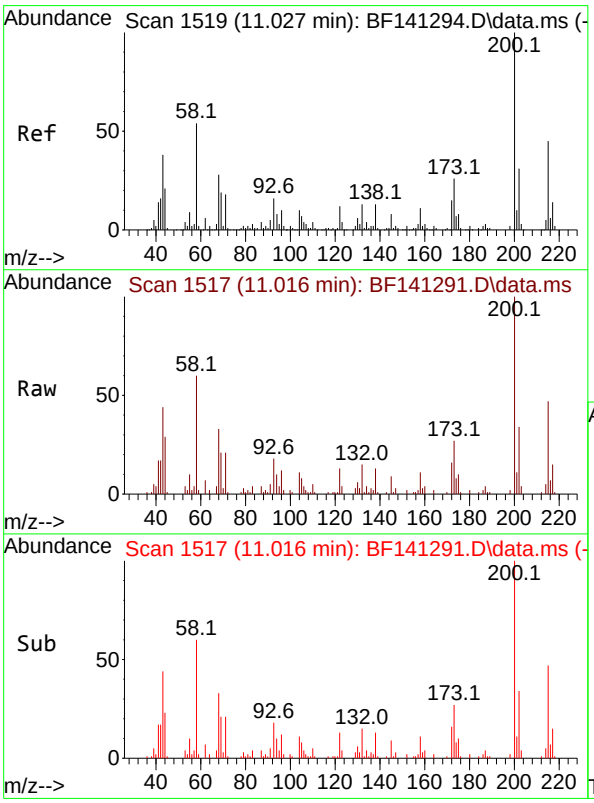
#68
Hexachlorobenzene
Concen: 5.424 ng
RT: 10.928 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:284 Resp: 31990

Ion	Ratio	Lower	Upper
284	100		
142	38.5	29.5	44.3
249	32.8	25.4	38.2

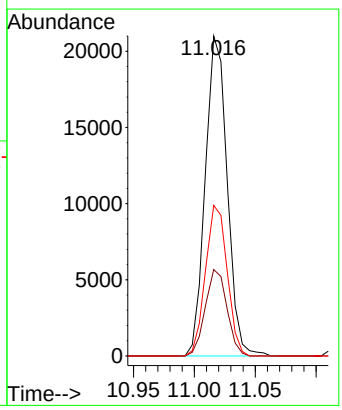


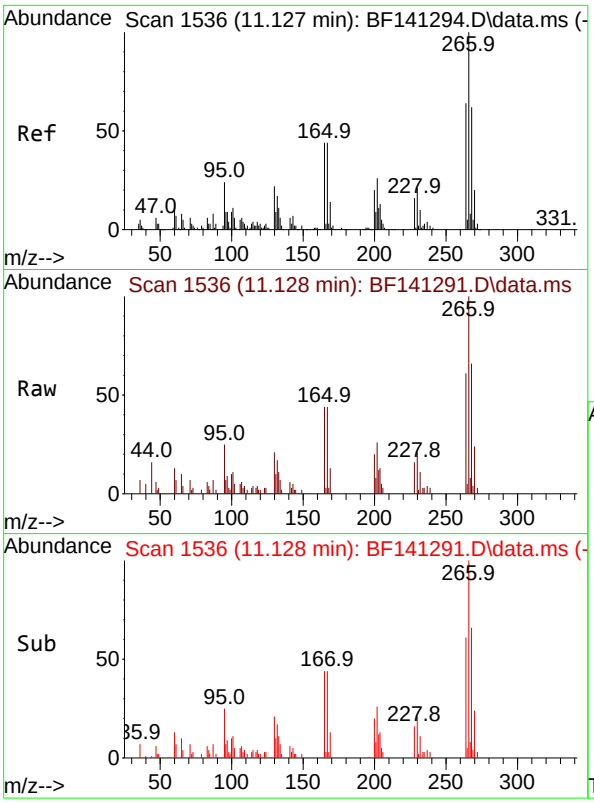


#69
Atrazine
Concen: 4.855 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:200 Resp: 26258

Ion	Ratio	Lower	Upper
200	100		
173	27.0	5.9	45.9
215	47.0	25.2	65.2



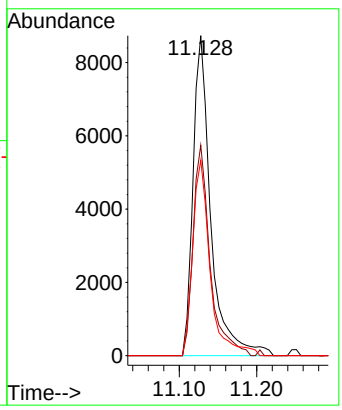


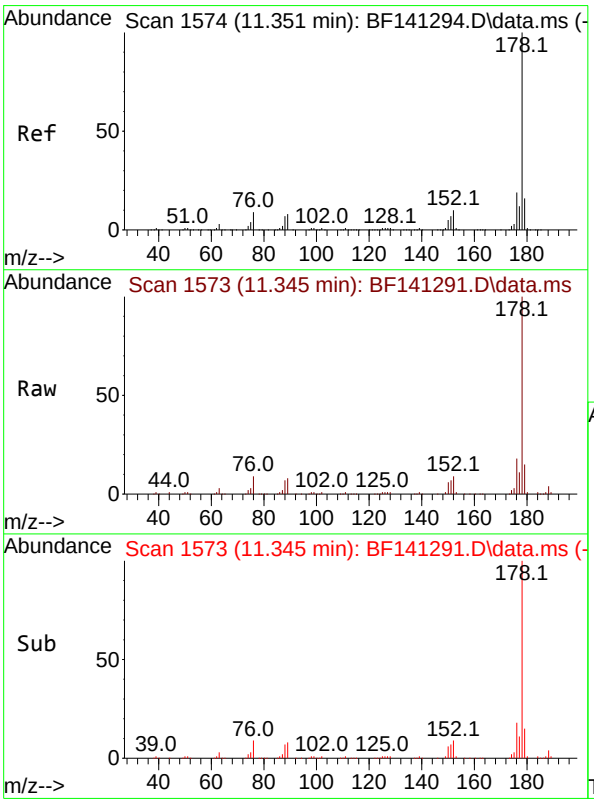
#70
Pentachlorophenol
Concen: 4.027 ng
RT: 11.128 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:266 Resp: 13924

Ion	Ratio	Lower	Upper
266	100		
268	65.7	49.9	74.9
264	61.1	51.0	76.4

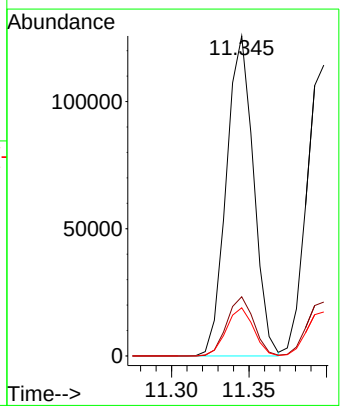


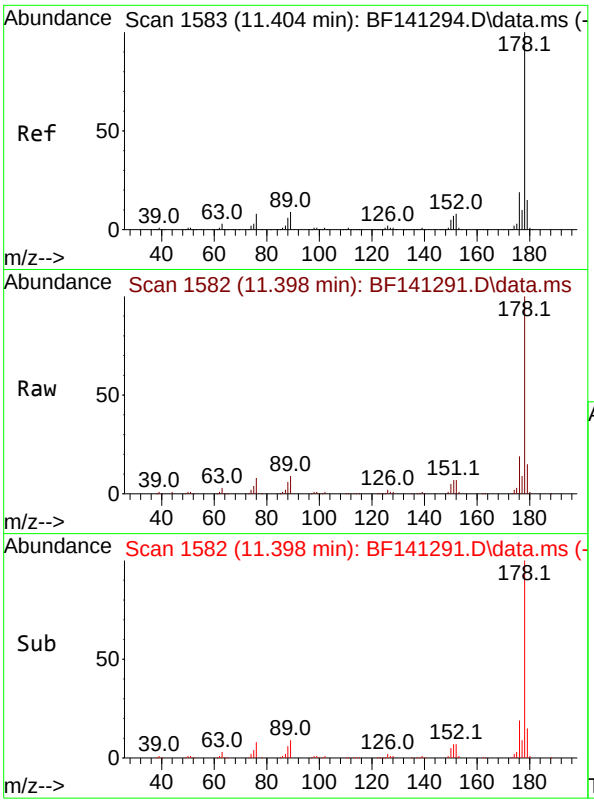


#71
Phenanthrene
Concen: 5.738 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:178 Resp: 153320

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.3	22.9
179	15.0	12.5	18.7



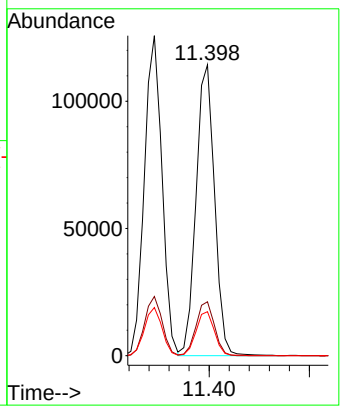


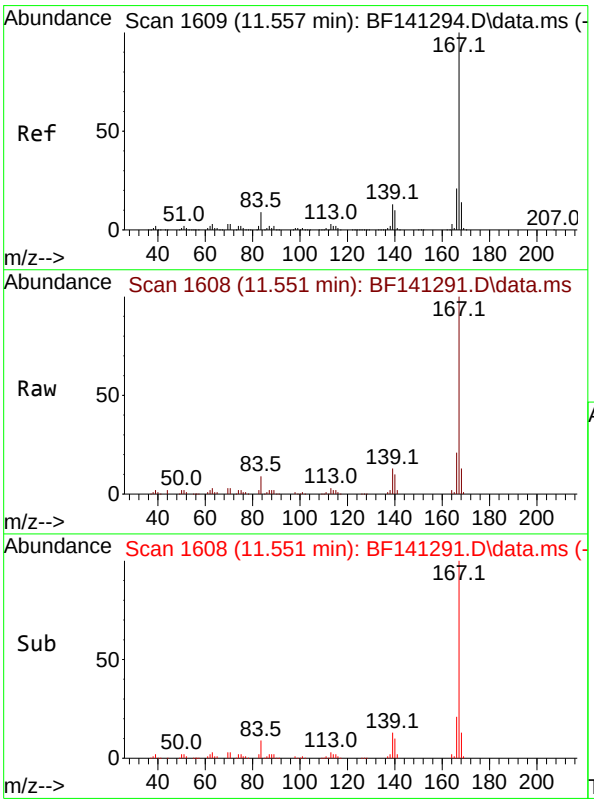
#72
Anthracene
Concen: 5.625 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 146593

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.1	12.3	18.5

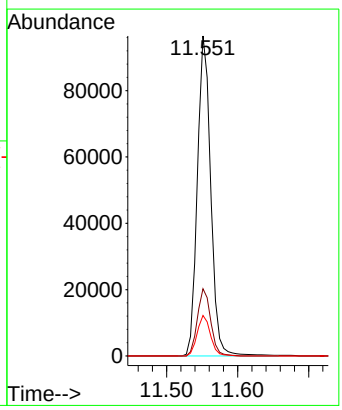


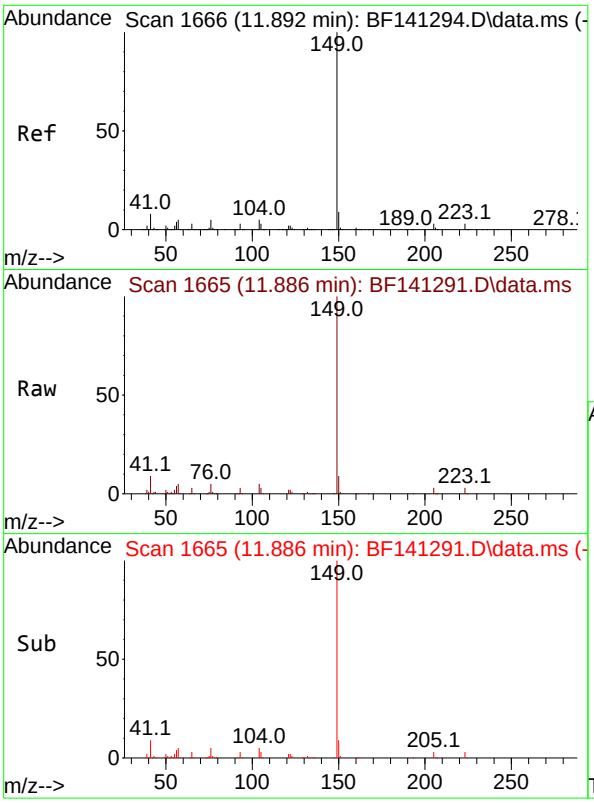


#73
Carbazole
Concen: 5.491 ng
RT: 11.551 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:167 Resp: 126760

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	12.6	10.6	16.0



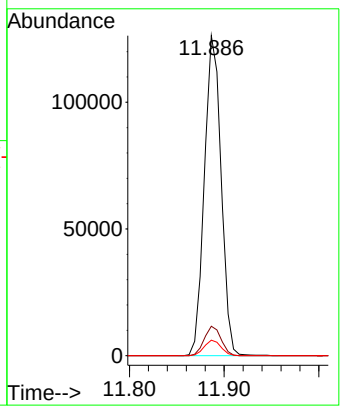


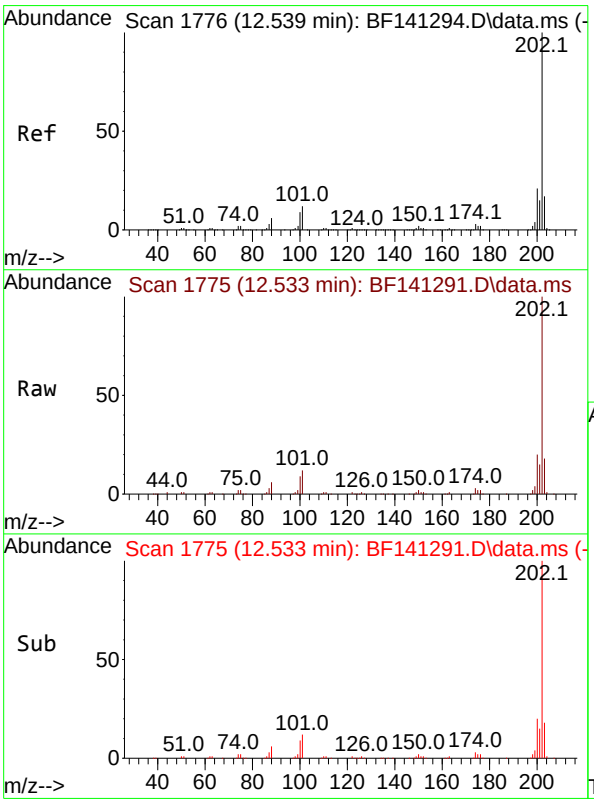
#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.886 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 154718

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.9	3.9	5.9

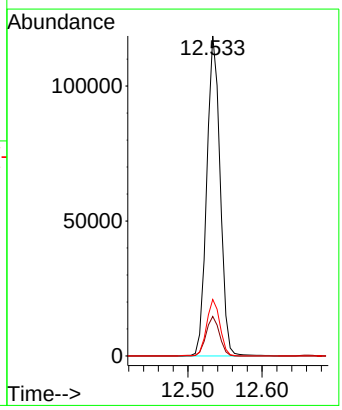


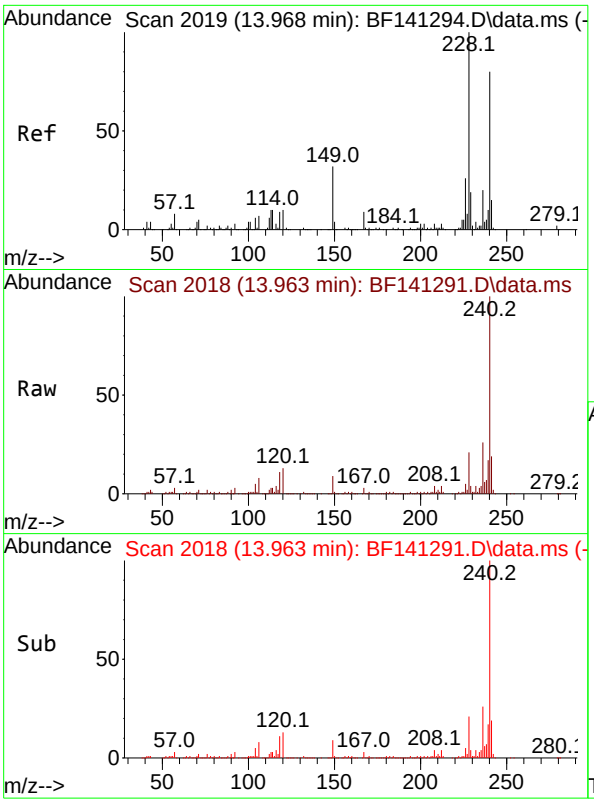


#75
Fluoranthene
Concen: 5.696 ng
RT: 12.533 min Scan# 1775
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:202 Resp: 148553

Ion	Ratio	Lower	Upper
202	100		
101	12.4	0.0	31.7
203	17.6	0.0	37.5



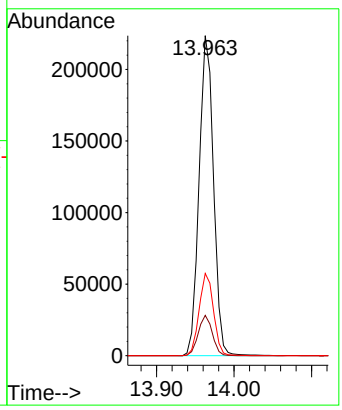


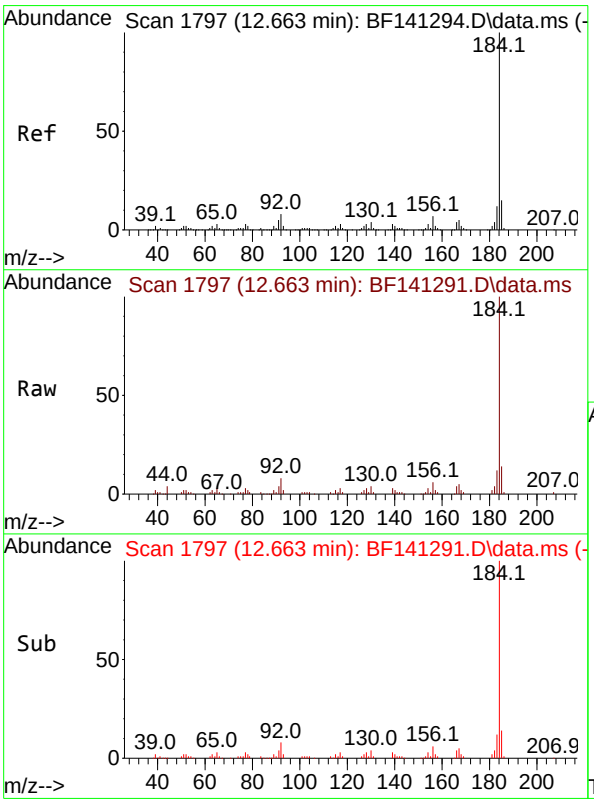
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:240 Resp: 288657

Ion	Ratio	Lower	Upper
240	100		
120	12.6	10.0	15.0
236	25.7	19.7	29.5

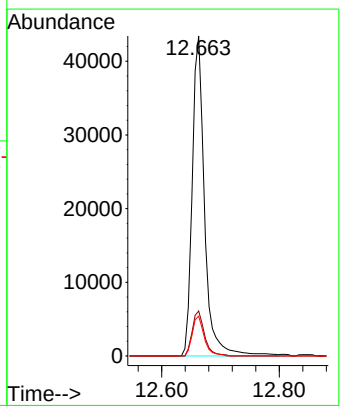


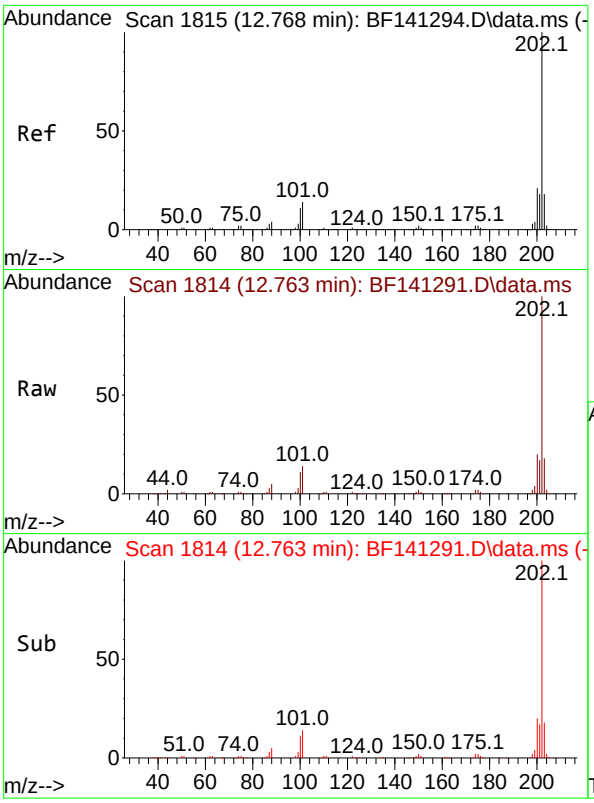


#77
Benzidine
Concen: 7.253 ng
RT: 12.663 min Scan# 1797
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:184 Resp: 63661

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.9	17.9
183	12.4	9.5	14.3



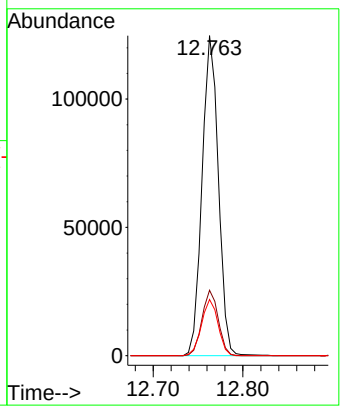


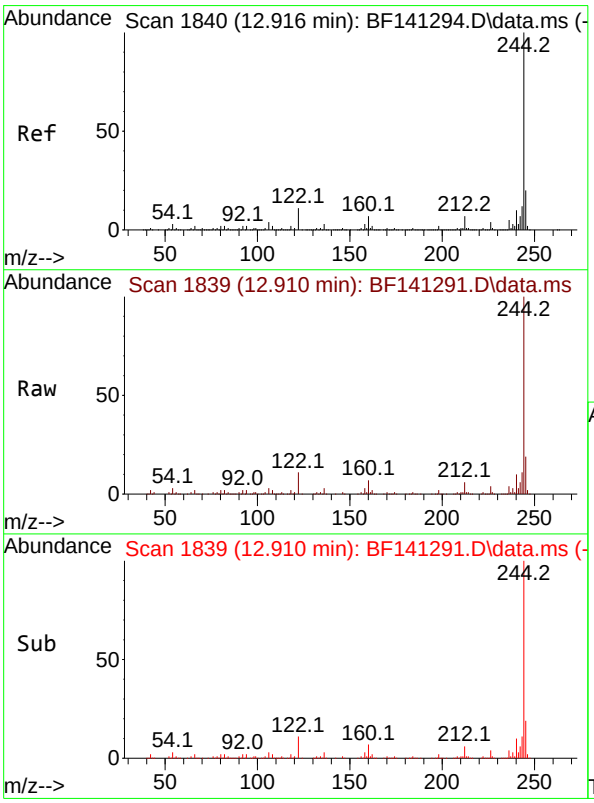
#78
Pyrene
Concen: 5.639 ng
RT: 12.763 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 157175

Ion	Ratio	Lower	Upper
202	100		
200	20.4	17.0	25.4
203	17.6	14.3	21.5

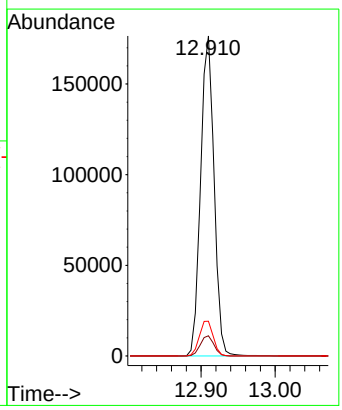


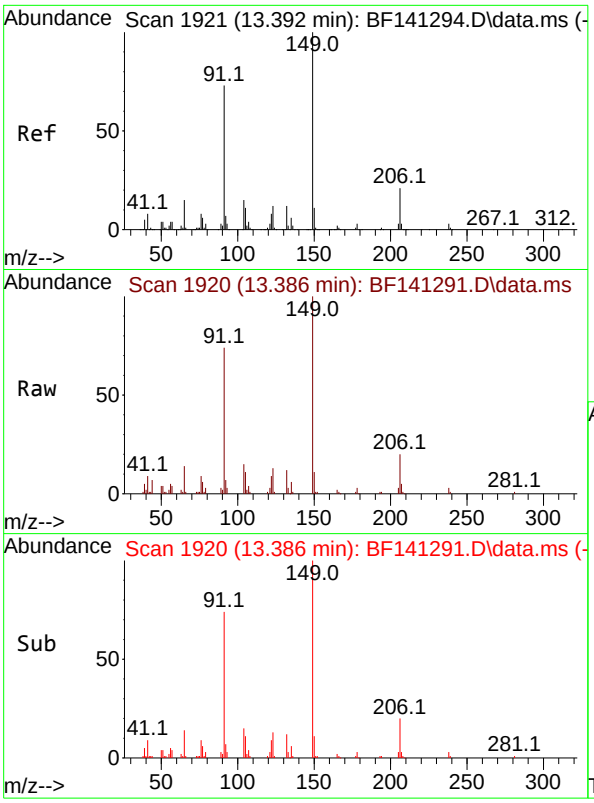


#79
Terphenyl-d14
Concen: 11.874 ng
RT: 12.910 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:244 Resp: 222747

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	10.9	8.8	13.2



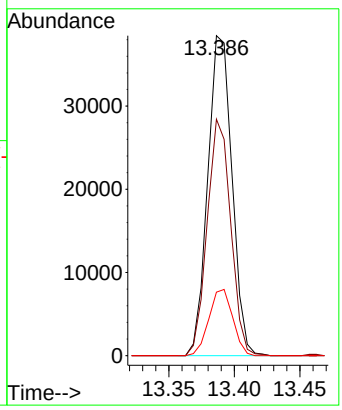


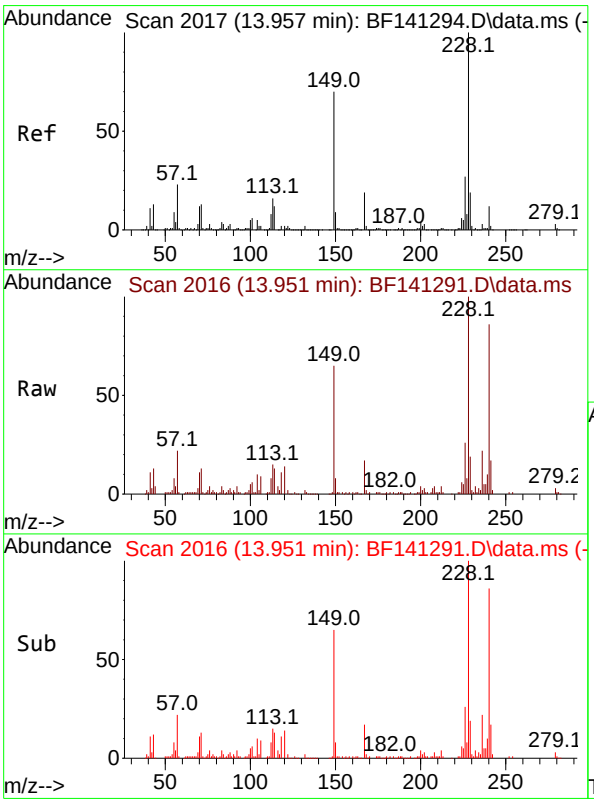
#80
Butylbenzylphthalate
Concen: 5.140 ng
RT: 13.386 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 49477

Ion	Ratio	Lower	Upper
149	100		
91	73.9	58.6	87.8
206	19.9	16.7	25.1

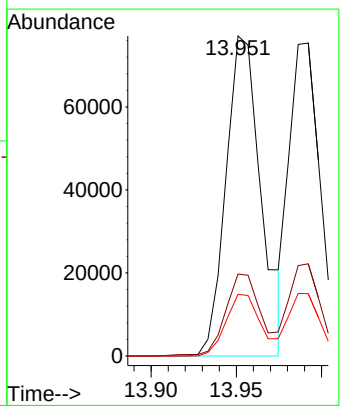


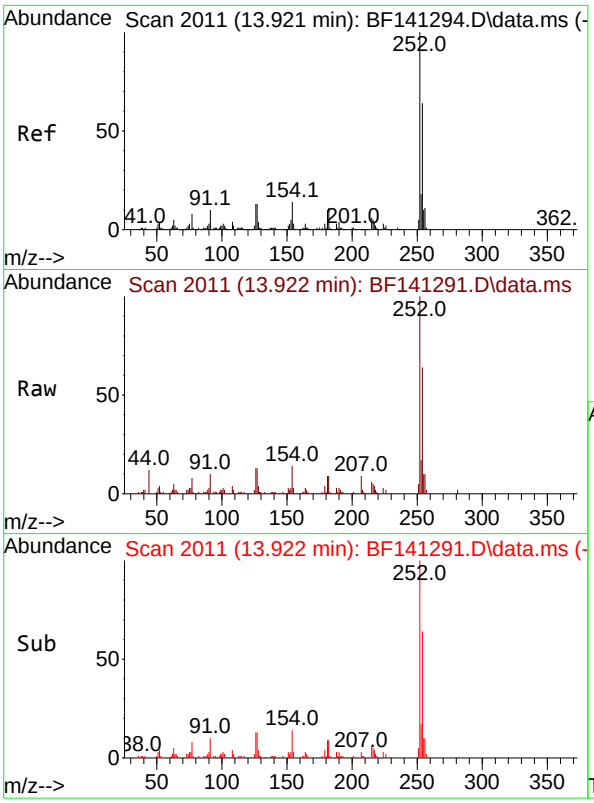


#81
Benzo(a)anthracene
Concen: 5.588 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:228 Resp: 110559

Ion	Ratio	Lower	Upper
228	100		
226	25.6	21.4	32.2
229	19.3	15.5	23.3



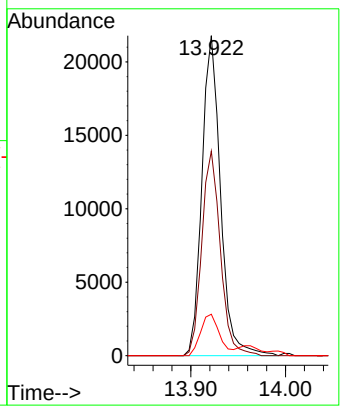


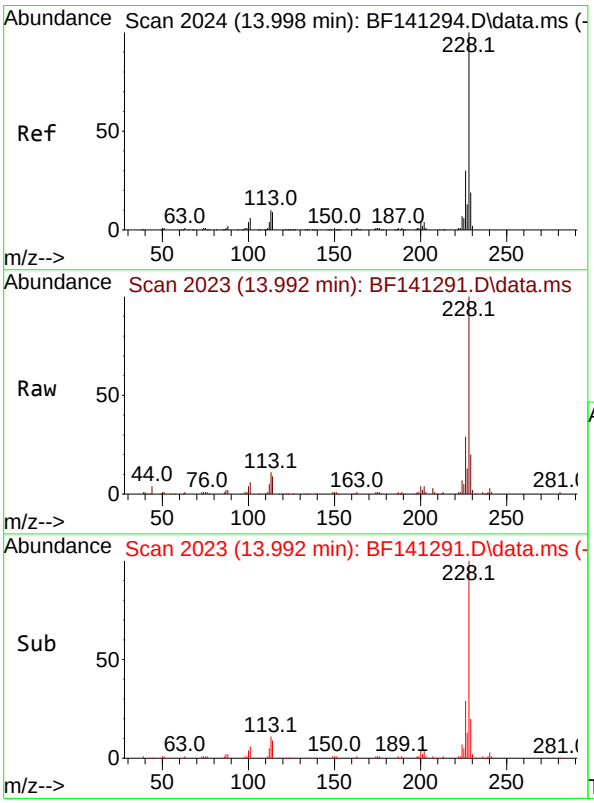
#82
3,3'-Dichlorobenzidine
Concen: 4.803 ng
RT: 13.922 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 29754

Ion	Ratio	Lower	Upper
252	100		
254	63.9	51.3	76.9
126	13.0	10.0	15.0

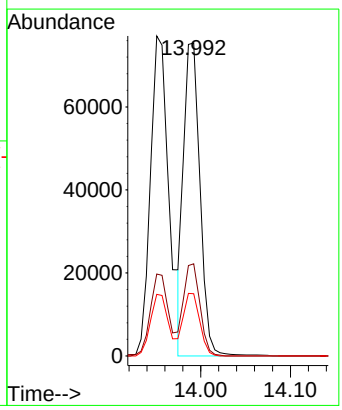


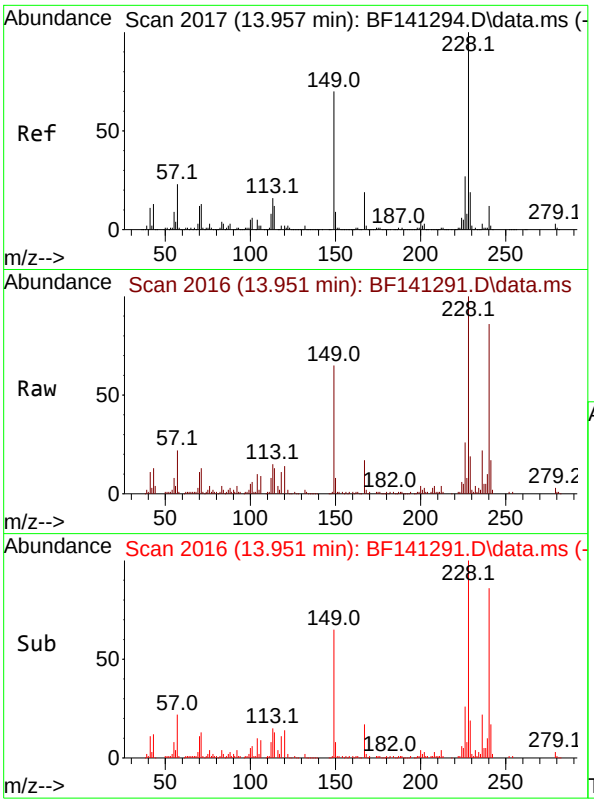


#83
Chrysene
Concen: 5.238 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:228 Resp: 96099

Ion	Ratio	Lower	Upper
228	100		
226	29.5	24.1	36.1
229	19.9	15.6	23.4



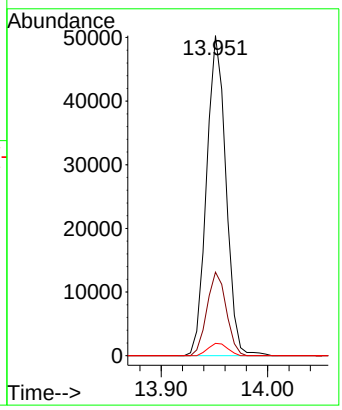


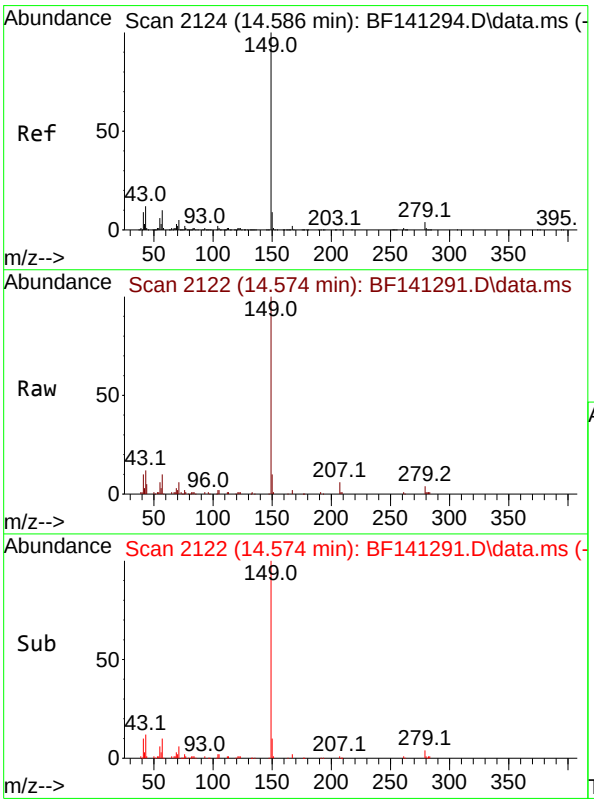
#84
Bis(2-ethylhexyl)phthalate
Concen: 5.269 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 63638

Ion	Ratio	Lower	Upper
149	100		
167	26.1	21.8	32.8
279	3.9	3.3	4.9

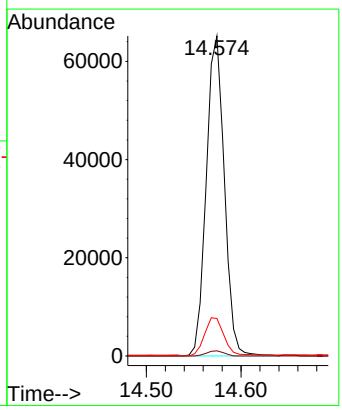


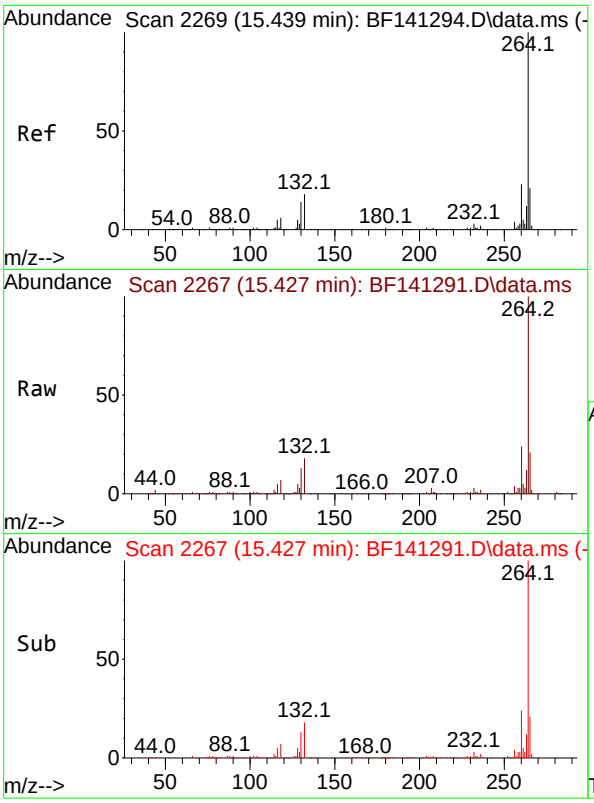


#85
Di-n-octyl phthalate
Concen: 4.560 ng
RT: 14.574 min Scan# 2122
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:149 Resp: 86163

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	13.3	9.8	14.8



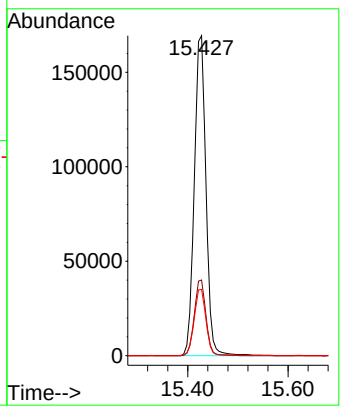


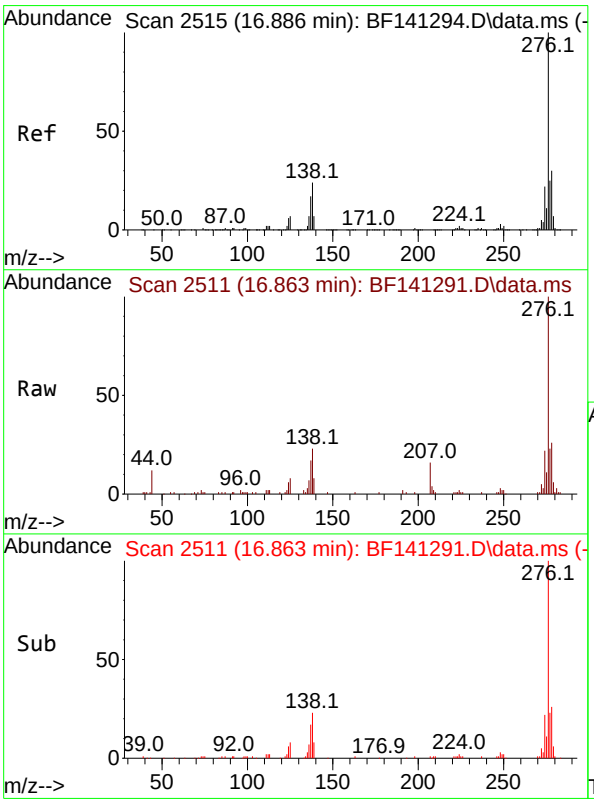
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:264 Resp: 273117

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	27.8
265	20.7	16.7	25.1

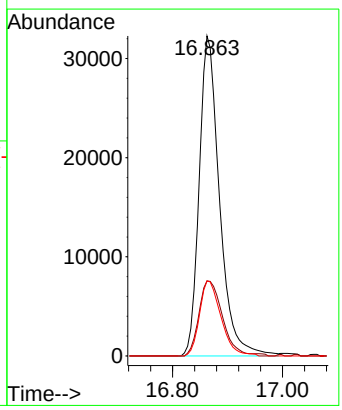


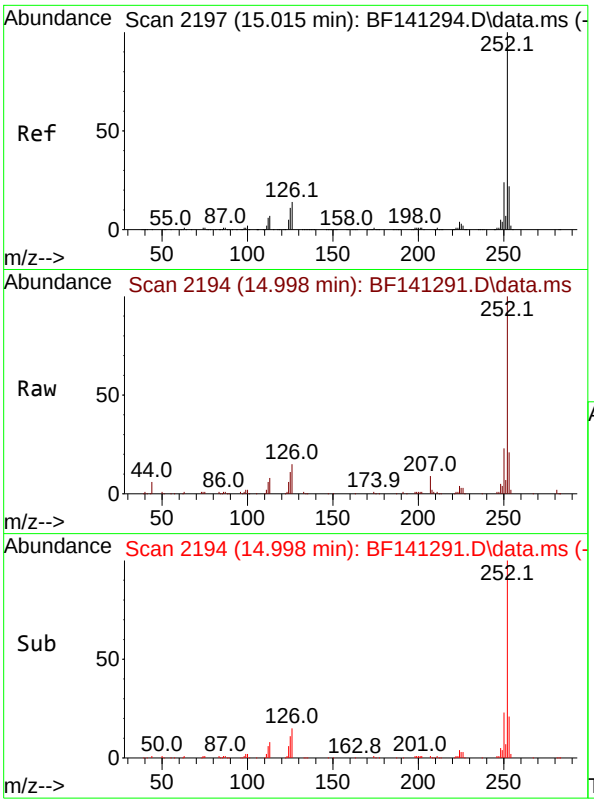


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.657 ng
RT: 16.863 min Scan# 2511
Delta R.T. -0.023 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:276 Resp: 83074

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.7	32.5
277	24.7	20.3	30.5



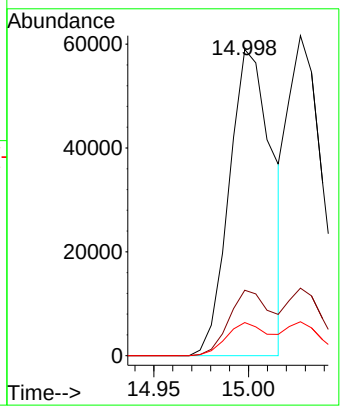


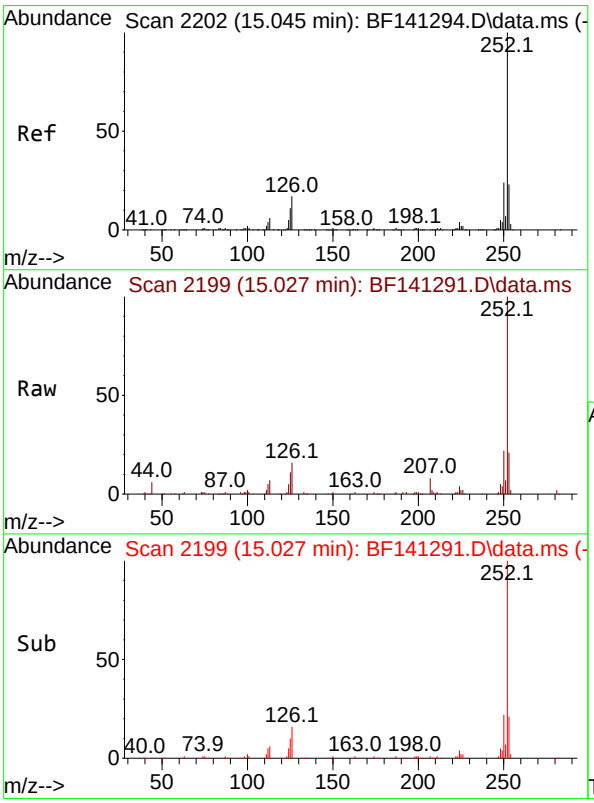
#88
Benzo(b)fluoranthene
Concen: 5.465 ng
RT: 14.998 min Scan# 21
Delta R.T. -0.017 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 92690

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.2
125	10.8	8.6	12.8

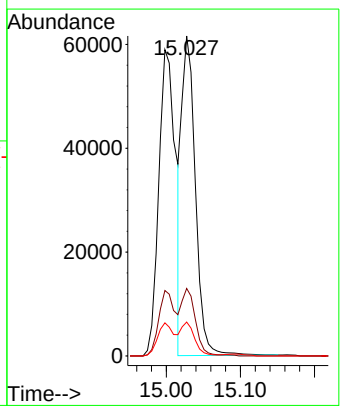


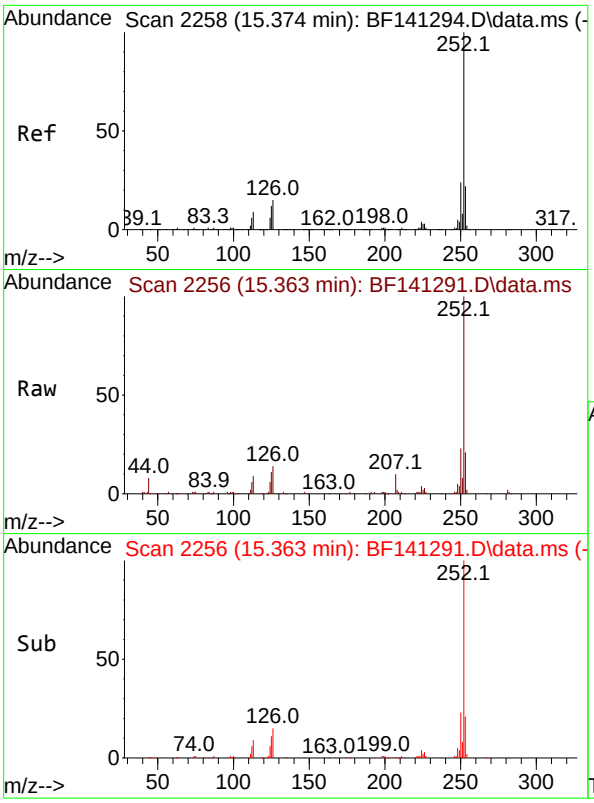


#89
Benzo(k)fluoranthene
Concen: 5.247 ng
RT: 15.027 min Scan# 2199
Delta R.T. -0.017 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:252 Resp: 79701

Ion	Ratio	Lower	Upper
252	100		
253	21.1	17.6	26.4
125	10.6	8.4	12.6



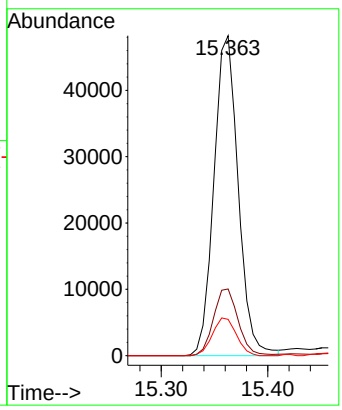


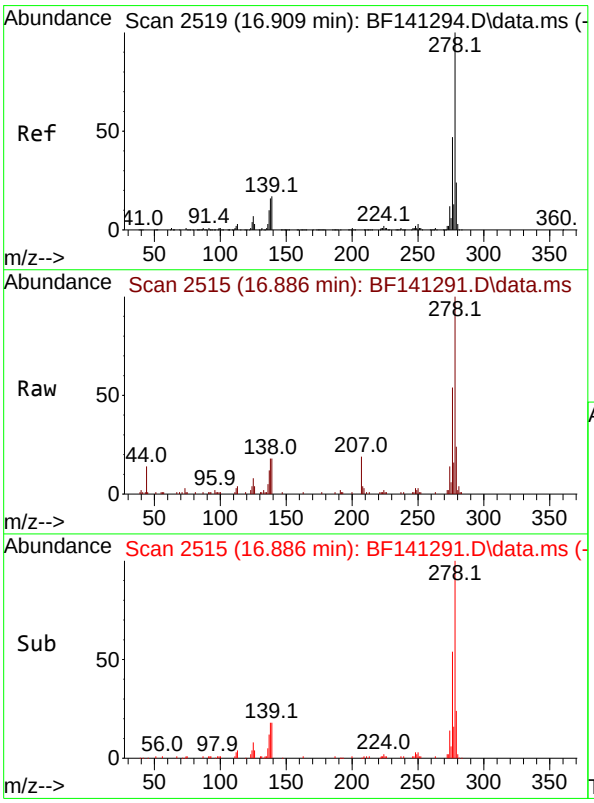
#90
Benzo(a)pyrene
Concen: 5.268 ng
RT: 15.363 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 76368

Ion	Ratio	Lower	Upper
252	100		
253	20.9	17.2	25.8
125	11.3	9.4	14.2

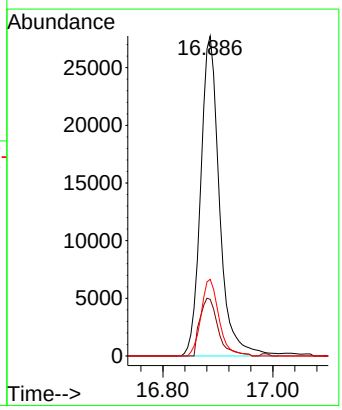


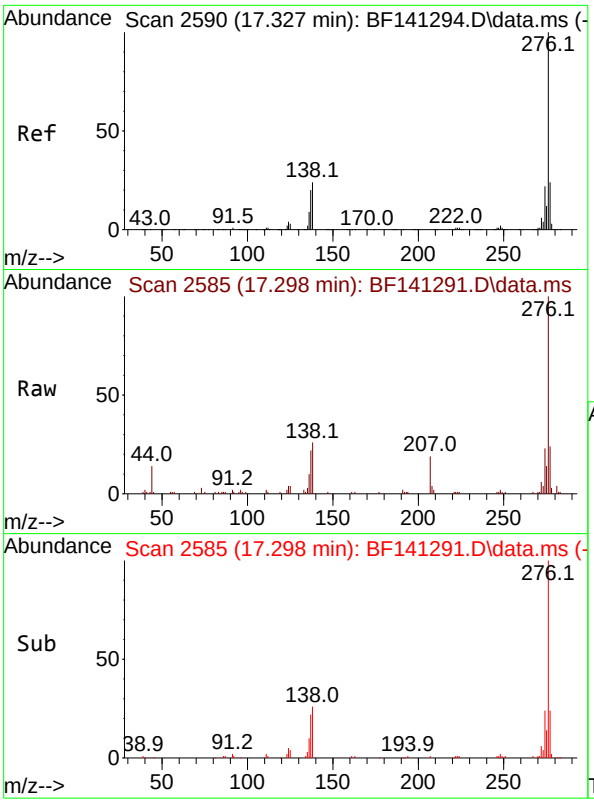


#91
Dibenzo(a,h)anthracene
Concen: 4.615 ng
RT: 16.886 min Scan# 2515
Delta R.T. -0.023 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:278 Resp: 65991

Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.9	20.9
279	24.0	18.8	28.2



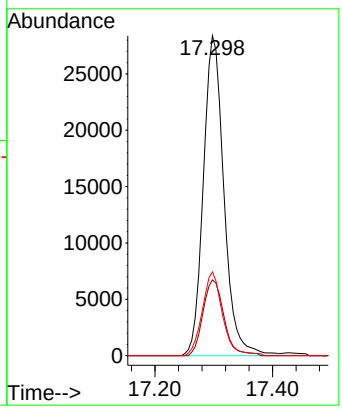


#92
Benzo(g,h,i)perylene
Concen: 4.591 ng
RT: 17.298 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 69049

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	26.2	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141292.D
Acq On : 29 Jan 2025 11:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	132200	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	533326	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	289559	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	510795	20.000	ng	0.00
76) Chrysene-d12	13.969	240	308114	20.000	ng	0.00
86) Perylene-d12	15.433	264	280028	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.399	112	183846	21.507	ng	0.00
7) Phenol-d6	6.416	99	237908	21.836	ng	-0.01
23) Nitrobenzene-d5	7.357	82	211040	20.937	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	57417	21.761	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	423852	22.581	ng	0.00
79) Terphenyl-d14	12.910	244	434781	21.713	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.487	88	39830	10.497	ng	98
3) Pyridine	3.222	79	93176	10.267	ng	99
4) n-Nitrosodimethylamine	3.152	42	52157	10.036	ng	98
6) Aniline	6.457	93	99872	10.968	ng	99
8) 2-Chlorophenol	6.581	128	99805	10.871	ng	95
9) Benzaldehyde	6.346	77	74679	11.803	ng	99
10) Phenol	6.434	94	124196	10.775	ng	96
11) bis(2-Chloroethyl)ether	6.528	93	93367	10.533	ng	99
12) 1,3-Dichlorobenzene	6.740	146	110278	10.891	ng	98
13) 1,4-Dichlorobenzene	6.816	146	109956	10.784	ng	99
14) 1,2-Dichlorobenzene	6.969	146	106335	11.160	ng	98
15) Benzyl Alcohol	6.934	79	79378	10.665	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.075	45	164185	10.661	ng	99
17) 2-Methylphenol	7.045	107	77643	10.446	ng	98
18) Hexachloroethane	7.310	117	40445	10.721	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	70075	10.815	ng	99
20) 3+4-Methylphenols	7.198	107	103360	11.310	ng	95
22) Acetophenone	7.204	105	139527	11.036	ng	98
24) Nitrobenzene	7.375	77	109497	10.474	ng	99
25) Isophorone	7.616	82	182564	10.480	ng	100
26) 2-Nitrophenol	7.692	139	49783	10.167	ng	98
27) 2,4-Dimethylphenol	7.728	122	63681m	10.177	ng	
28) bis(2-Chloroethoxy)met...	7.828	93	117232	10.561	ng	98
29) 2,4-Dichlorophenol	7.934	162	79949	10.457	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	94419	10.767	ng	98
31) Naphthalene	8.098	128	305386	10.887	ng	99
32) Benzoic acid	7.798	122	47549	8.367	ng	99
33) 4-Chloroaniline	8.151	127	100852	10.703	ng	98
34) Hexachlorobutadiene	8.222	225	55103	10.736	ng	99
35) Caprolactam	8.481	113	25363	10.256	ng	100
36) 4-Chloro-3-methylphenol	8.622	107	87592	10.674	ng	98
37) 2-Methylnaphthalene	8.792	142	195160	10.925	ng	99
38) 1-Methylnaphthalene	8.892	142	192861	11.022	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	88710	10.775	ng	99
41) Hexachlorocyclopentadiene	8.945	237	22759	9.212	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	55036	10.241	ng	99

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141292.D
Acq On : 29 Jan 2025 11:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.104	196	61493	10.518	ng	100
46) 1,1'-Biphenyl	9.257	154	245028	10.847	ng	99
47) 2-Chloronaphthalene	9.281	162	189709	10.812	ng	98
48) 2-Nitroaniline	9.375	65	56247	10.164	ng	99
49) Acenaphthylene	9.692	152	268471	10.895	ng	99
50) Dimethylphthalate	9.551	163	210816	10.857	ng	100
51) 2,6-Dinitrotoluene	9.616	165	47955	10.613	ng	97
52) Acenaphthene	9.869	154	188283	10.738	ng	100
53) 3-Nitroaniline	9.781	138	47818	10.699	ng	95
54) 2,4-Dinitrophenol	9.892	184	14749	6.925	ng	98
55) Dibenzofuran	10.039	168	258832	11.038	ng	99
56) 4-Nitrophenol	9.939	139	31196	9.722	ng	98
57) 2,4-Dinitrotoluene	10.016	165	62418	10.710	ng	99
58) Fluorene	10.381	166	204141	11.197	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	49596	10.737	ng	100
60) Diethylphthalate	10.257	149	205131	10.908	ng	99
61) 4-Chlorophenyl-phenyle...	10.375	204	100485	11.294	ng	100
62) 4-Nitroaniline	10.392	138	45222	10.533	ng	99
63) Azobenzene	10.534	77	204300	10.839	ng	99
65) 4,6-Dinitro-2-methylph...	10.422	198	26939	8.831	ng	91
66) n-Nitrosodiphenylamine	10.492	169	174617	10.544	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	59770	10.468	ng	96
68) Hexachlorobenzene	10.928	284	63908	10.551	ng	100
69) Atrazine	11.016	200	51633	9.295	ng	99
70) Pentachlorophenol	11.128	266	34788	9.796	ng	99
71) Phenanthrene	11.345	178	298892	10.893	ng	99
72) Anthracene	11.398	178	292813	10.940	ng	99
73) Carbazole	11.551	167	258853	10.919	ng	99
74) Di-n-butylphthalate	11.886	149	316336	11.070	ng	99
75) Fluoranthene	12.533	202	306969	11.462	ng	99
77) Benzidine	12.657	184	73918	7.890	ng	98
78) Pyrene	12.763	202	317744	10.681	ng	99
80) Butylbenzylphthalate	13.386	149	106335	10.349	ng	99
81) Benzo(a)anthracene	13.957	228	217291	10.289	ng	99
82) 3,3'-Dichlorobenzidine	13.922	252	65021	9.833	ng	99
83) Chrysene	13.992	228	204080	10.421	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	139099	10.789	ng	99
85) Di-n-octyl phthalate	14.580	149	195129	9.676	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	177554	9.708	ng	100
88) Benzo(b)fluoranthene	15.010	252	193558	11.130	ng	99
89) Benzo(k)fluoranthene	15.039	252	155925	10.012	ng	99
90) Benzo(a)pyrene	15.374	252	148214	9.972	ng	100
91) Dibenzo(a,h)anthracene	16.898	278	140143	9.559	ng	99
92) Benzo(g,h,i)perylene	17.315	276	150453	9.756	ng	99

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

ICAL Form

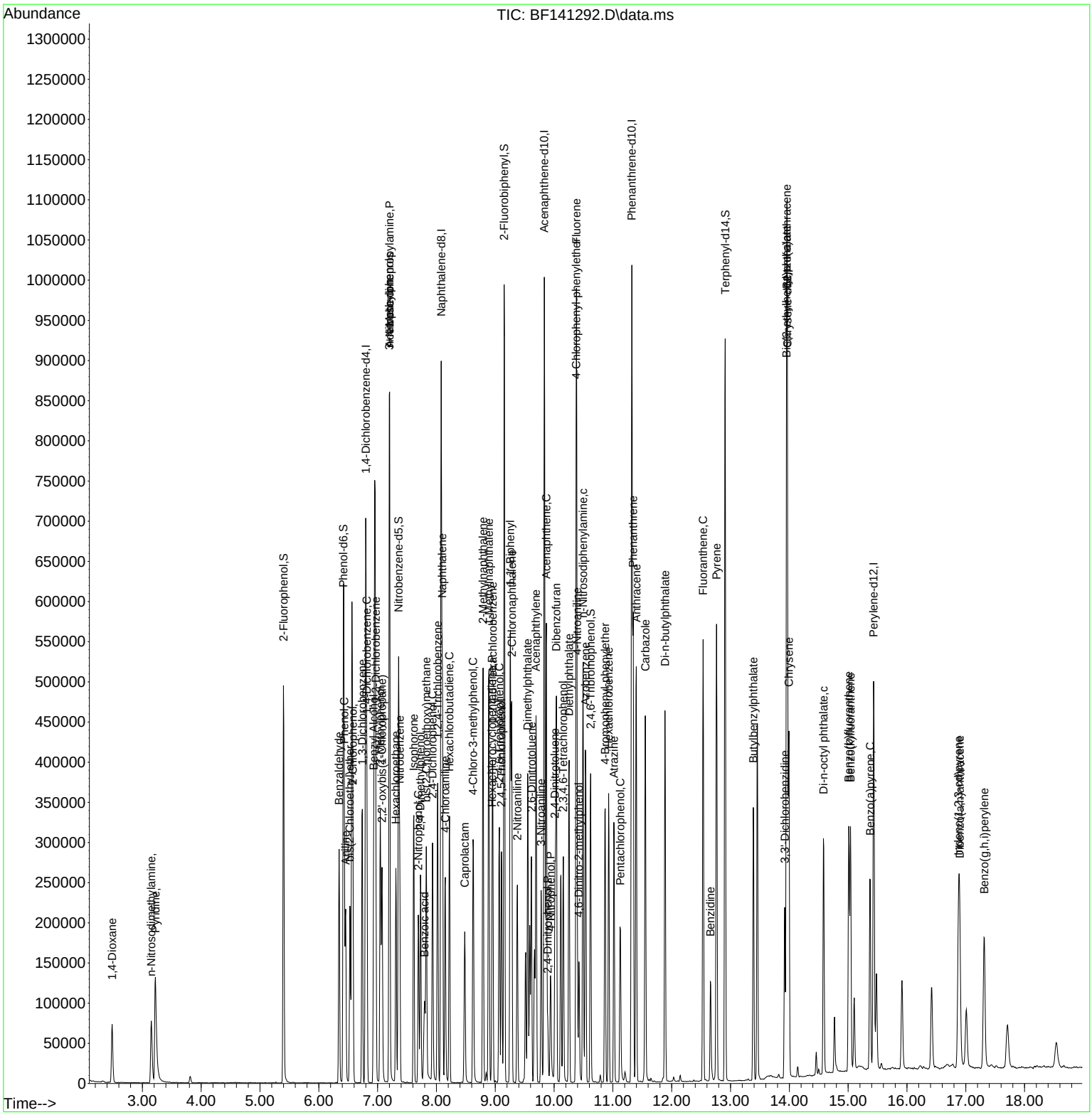
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141292.D
Acq On : 29 Jan 2025 11:49
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

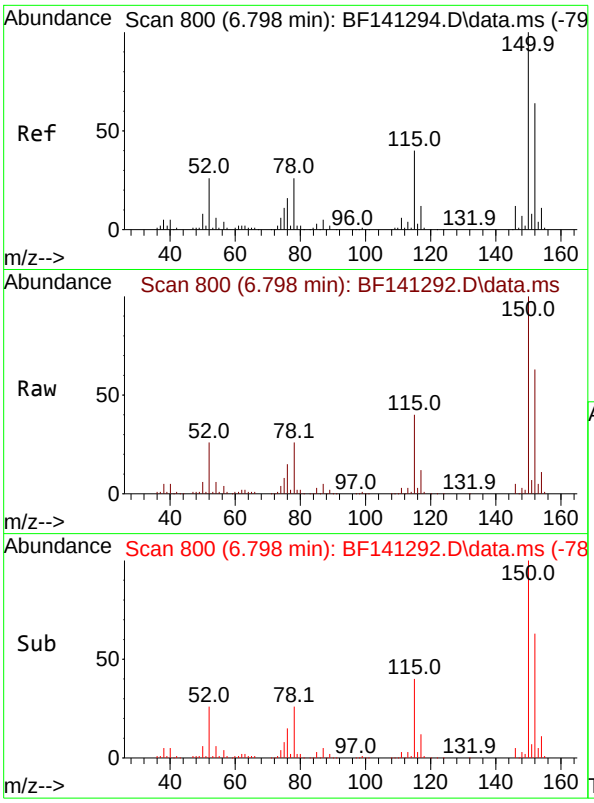
Quant Time: Jan 29 16:29:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

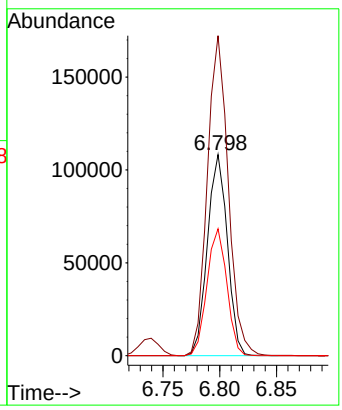




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8(
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:152 Resp: 13220(

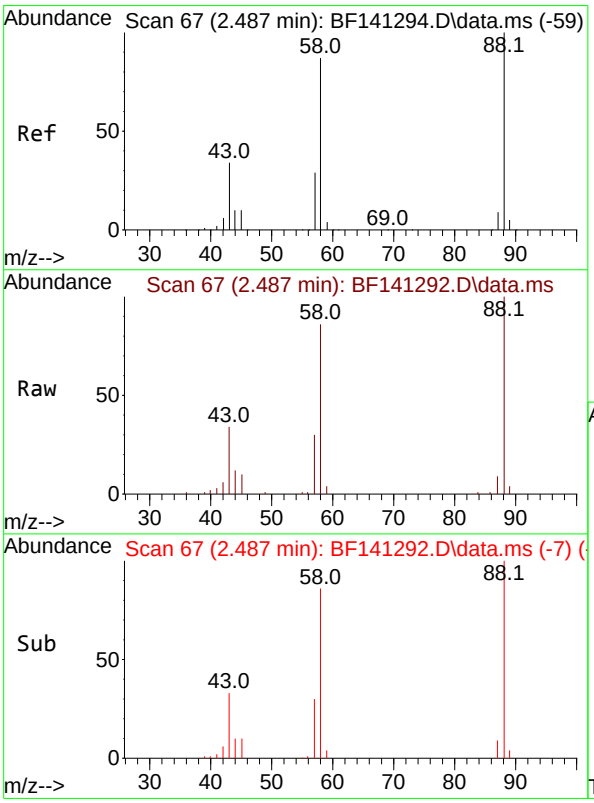
Ion	Ratio	Lower	Upper
152	100		
150	159.1	125.9	188.9
115	63.1	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

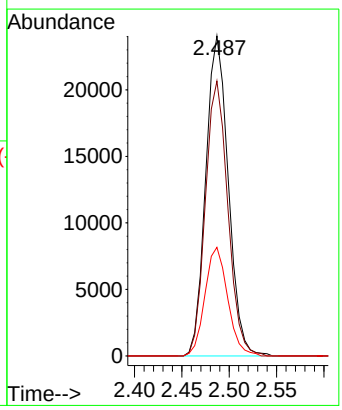
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

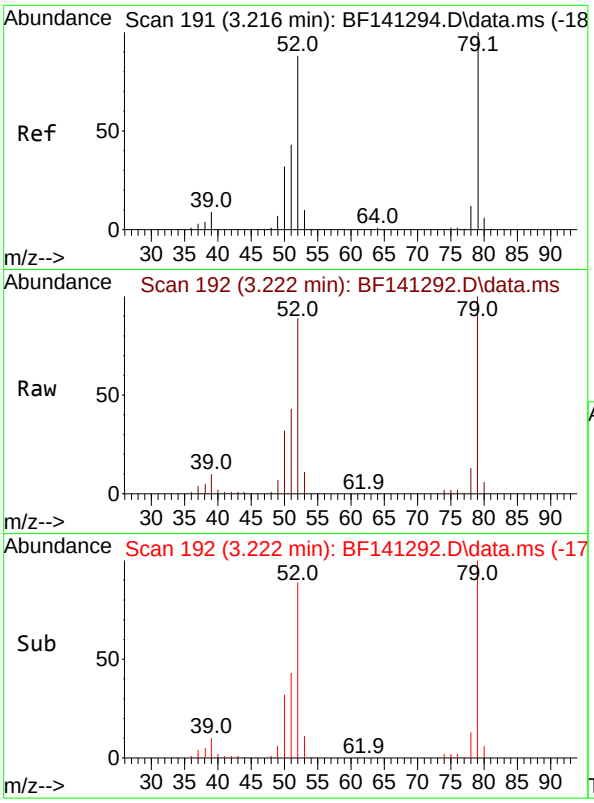


#2
1,4-Dioxane
Concen: 10.497 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 88 Resp: 39830

Ion	Ratio	Lower	Upper
88	100		
58	85.5	70.2	105.4
43	34.3	27.6	41.4

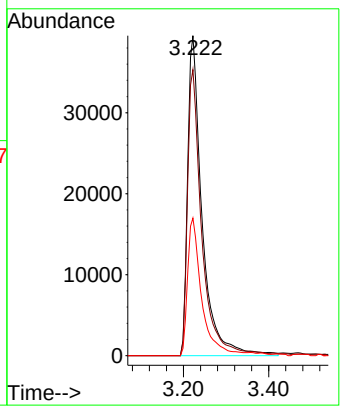




#3
Pyridine
Concen: 10.267 ng
RT: 3.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 79 Resp: 9317

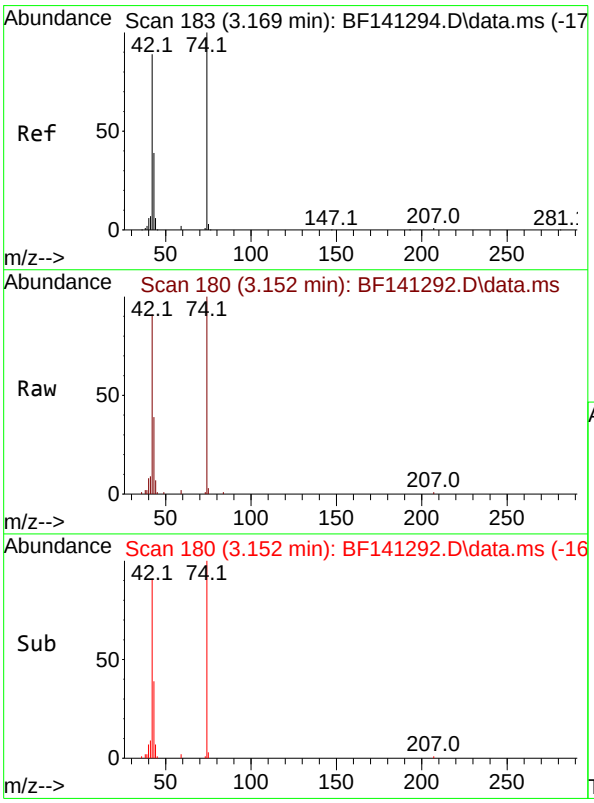
Ion	Ratio	Lower	Upper
79	100		
52	89.4	70.3	105.5
51	43.0	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

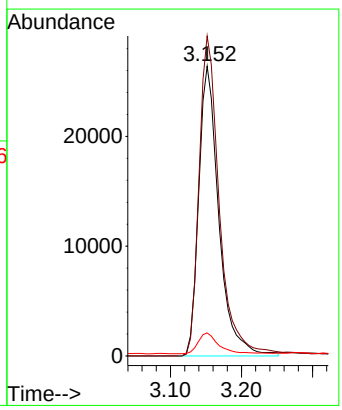
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

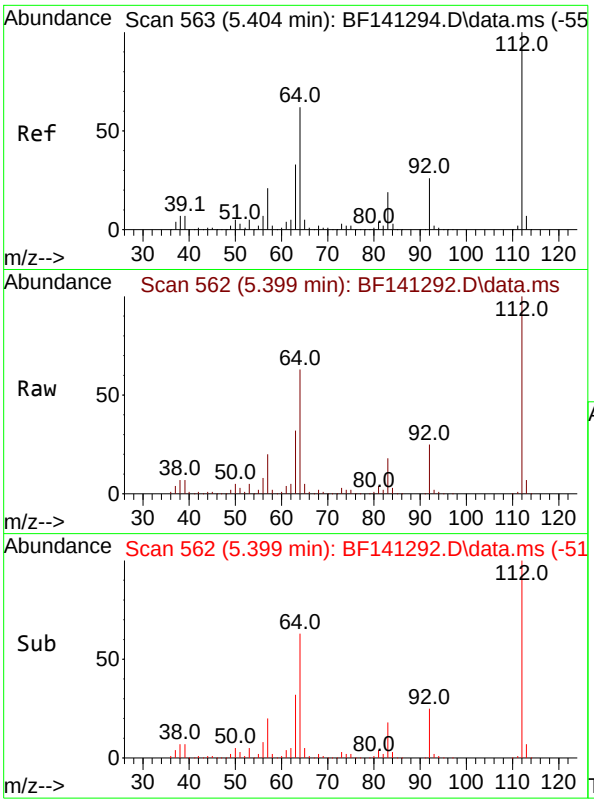


#4
n-Nitrosodimethylamine
Concen: 10.036 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.017 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 42 Resp: 52157

Ion	Ratio	Lower	Upper
42	100		
74	110.5	90.3	135.5
44	8.0	5.7	8.5

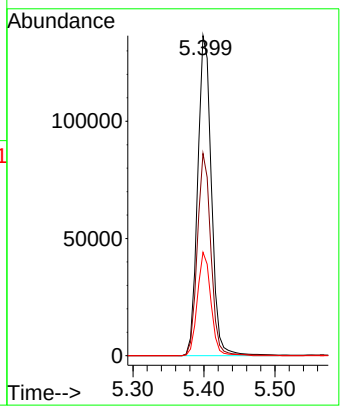




#5
2-Fluorophenol
Concen: 21.507 ng
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:112 Resp: 18384

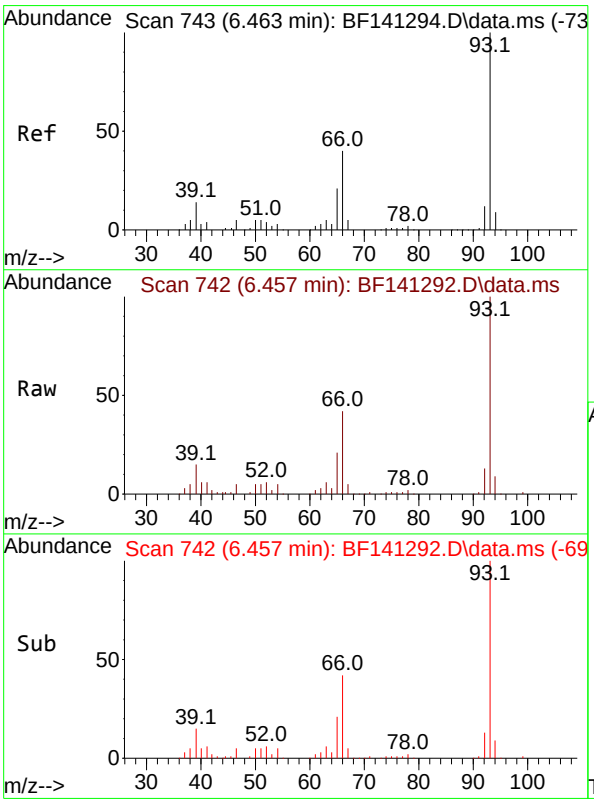
Ion	Ratio	Lower	Upper
112	100		
64	63.2	49.8	74.8
63	32.3	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

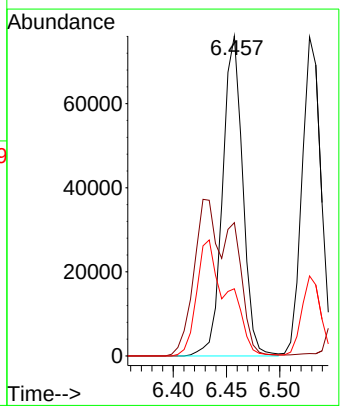
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

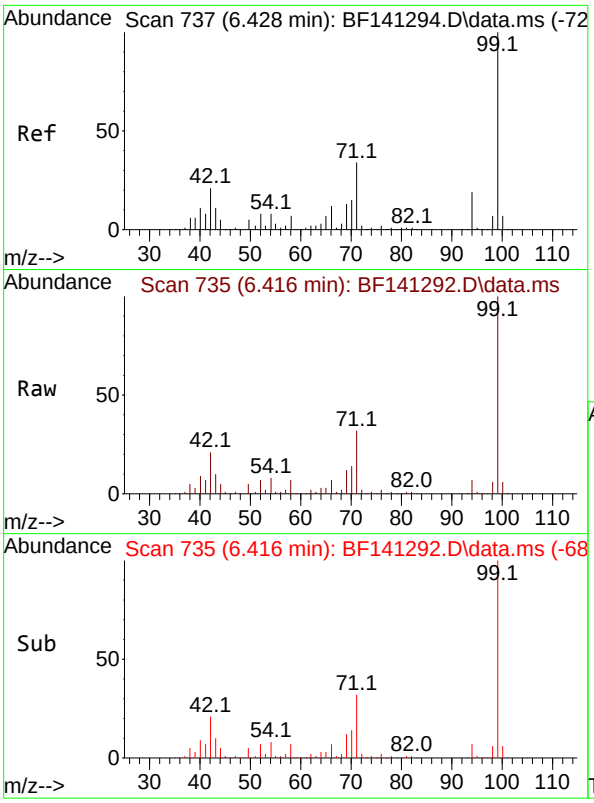


#6
Aniline
Concen: 10.968 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 93 Resp: 99872

Ion	Ratio	Lower	Upper
93	100		
66	41.7	32.5	48.7
65	21.0	17.0	25.6

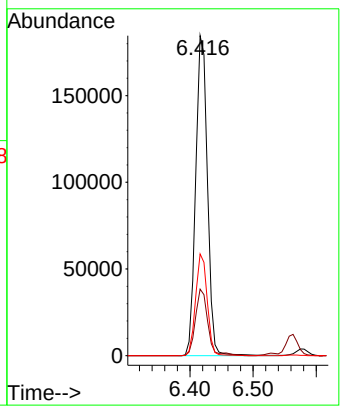




#7
Phenol-d6
Concen: 21.836 ng
RT: 6.416 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 99 Resp: 23790

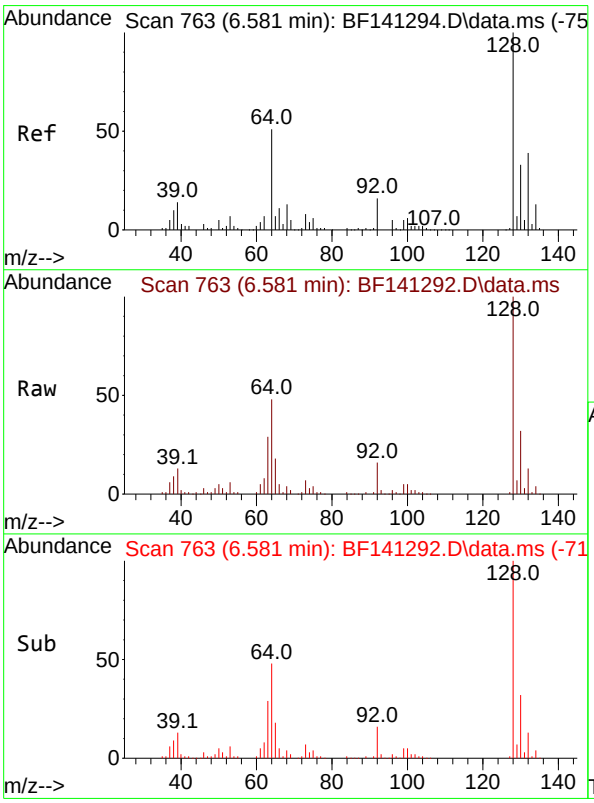
Ion	Ratio	Lower	Upper
99	100		
42	20.8	17.1	25.7
71	31.8	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

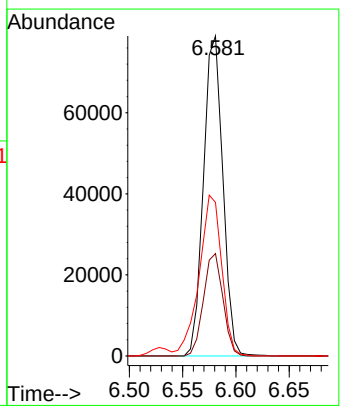
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

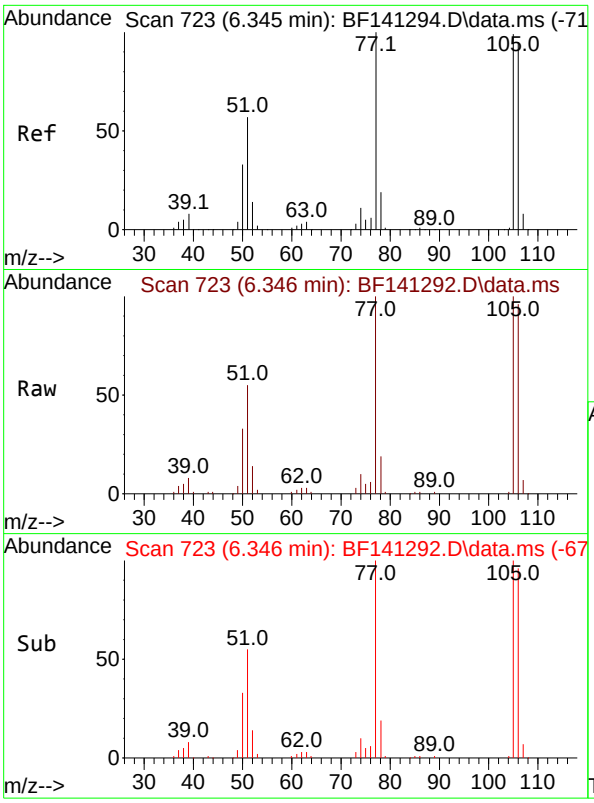


#8
2-Chlorophenol
Concen: 10.871 ng
RT: 6.581 min Scan# 763
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:128 Resp: 99805

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.5	52.5
64	48.0	32.9	72.9

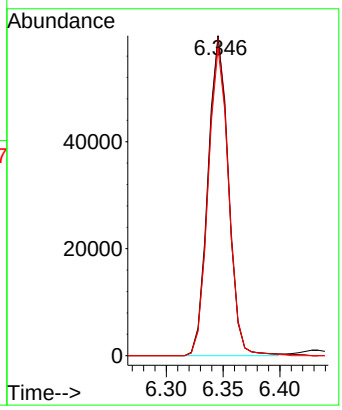




#9
Benzaldehyde
Concen: 11.803 ng
RT: 6.346 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 77 Resp: 7467

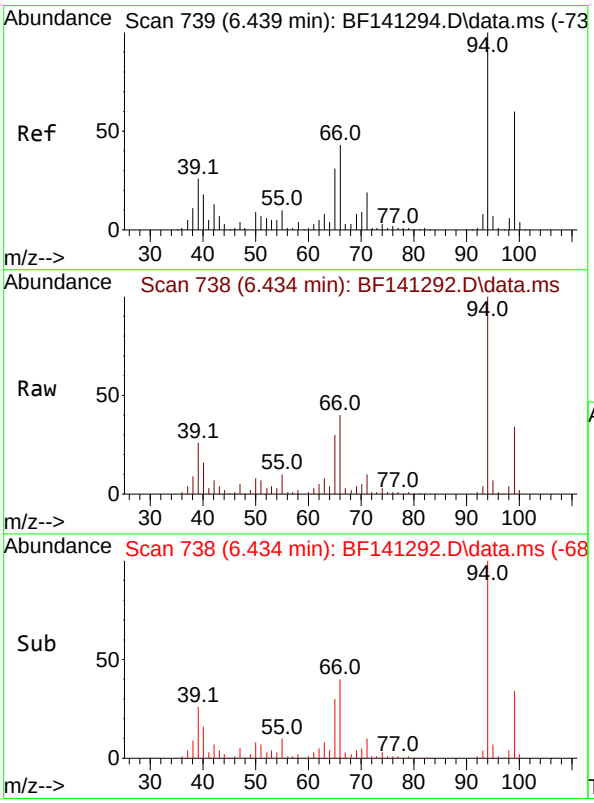
Ion	Ratio	Lower	Upper
77	100		
105	99.6	79.4	119.4
106	96.1	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

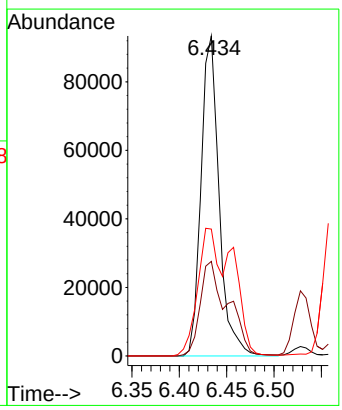
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

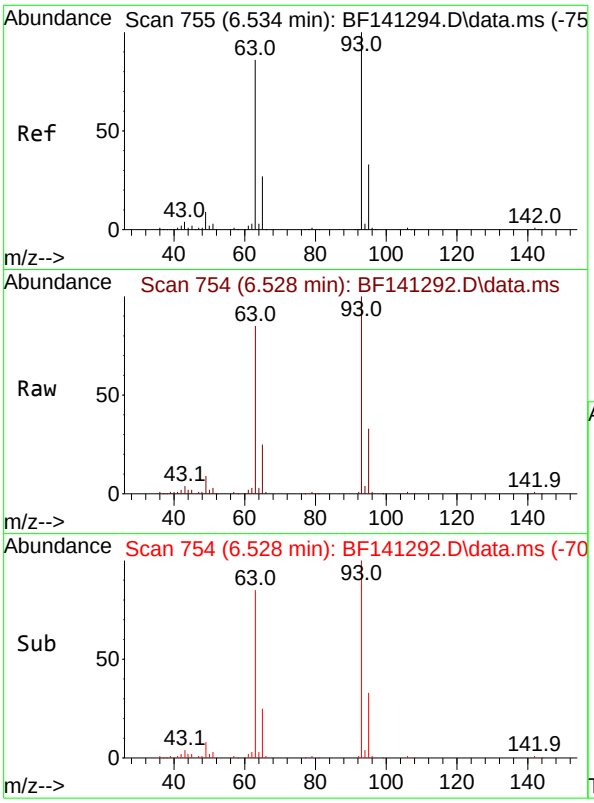


#10
Phenol
Concen: 10.775 ng
RT: 6.434 min Scan# 738
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 94 Resp: 124196

Ion	Ratio	Lower	Upper
94	100		
65	29.5	10.8	50.8
66	39.7	23.3	63.3

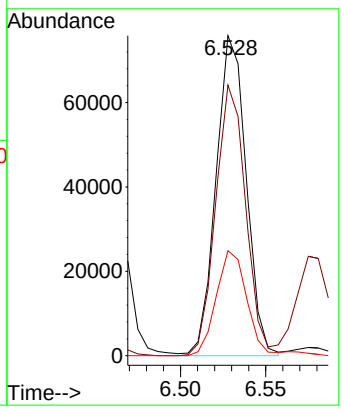




#11
bis(2-Chloroethyl)ether
Concen: 10.533 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 93 Resp: 9336

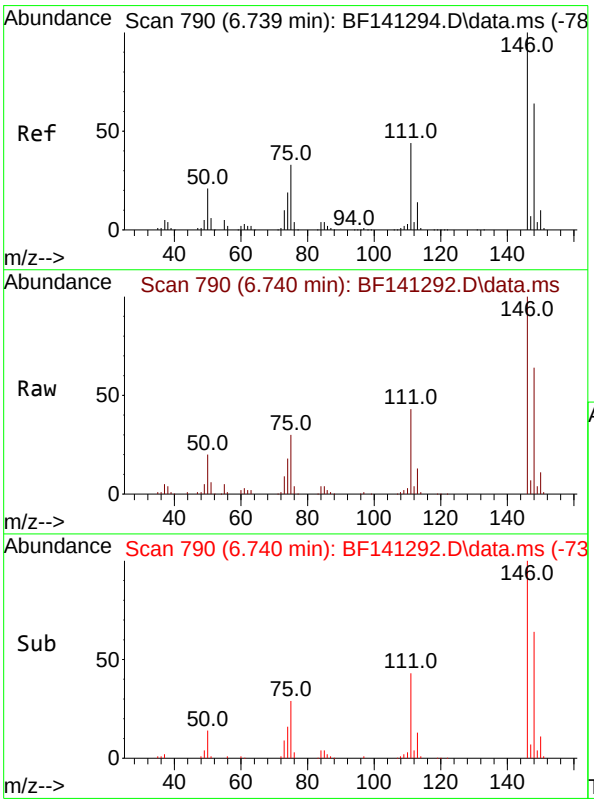
Ion	Ratio	Lower	Upper
93	100		
63	84.6	65.0	105.0
95	32.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

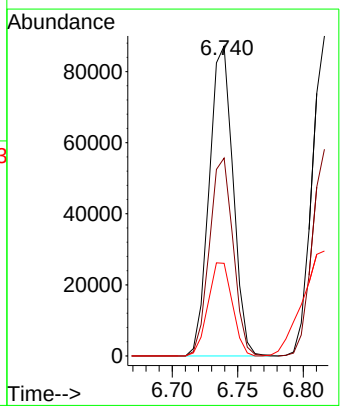
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

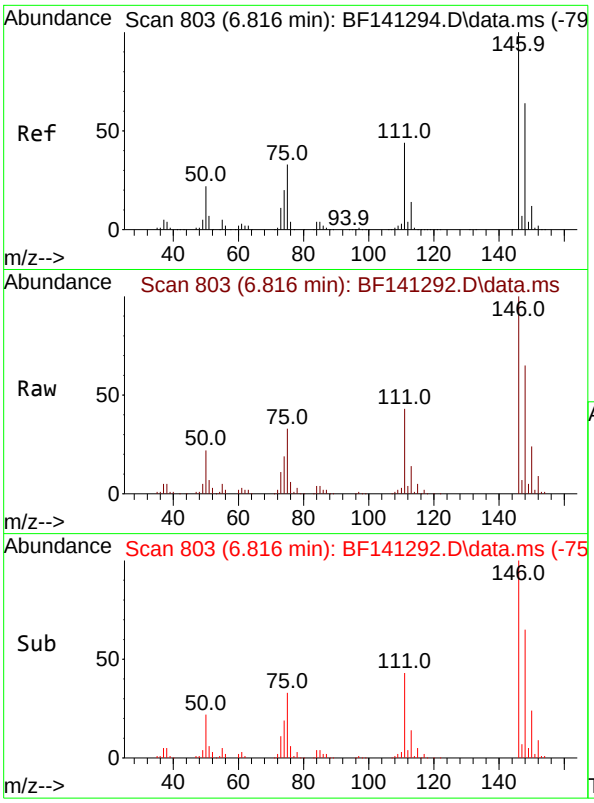


#12
1,3-Dichlorobenzene
Concen: 10.891 ng
RT: 6.740 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:146 Resp: 110278

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
75	29.9	26.2	39.4

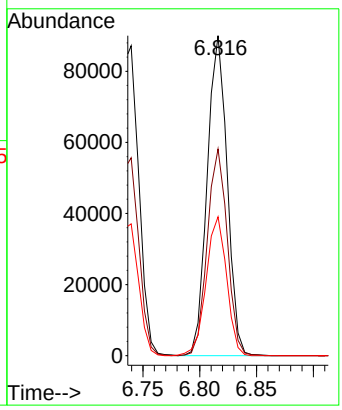




#13
1,4-Dichlorobenzene
Concen: 10.784 ng
RT: 6.816 min Scan# 8(
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:146 Resp: 10995(

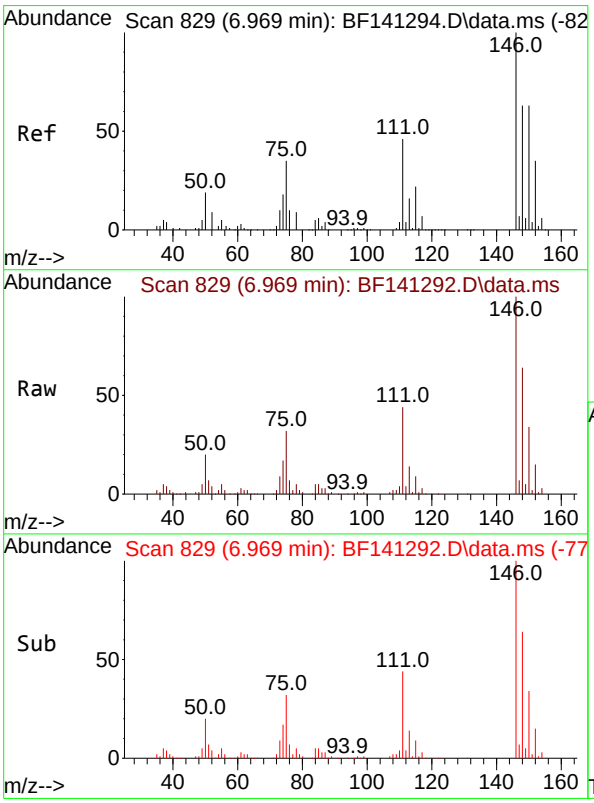
Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.2	76.8
111	43.4	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

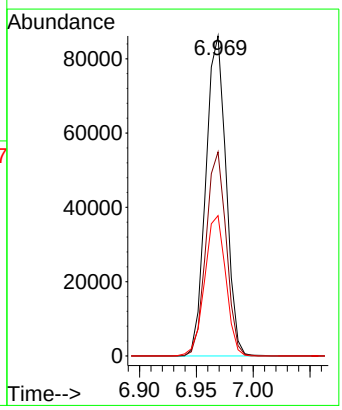
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

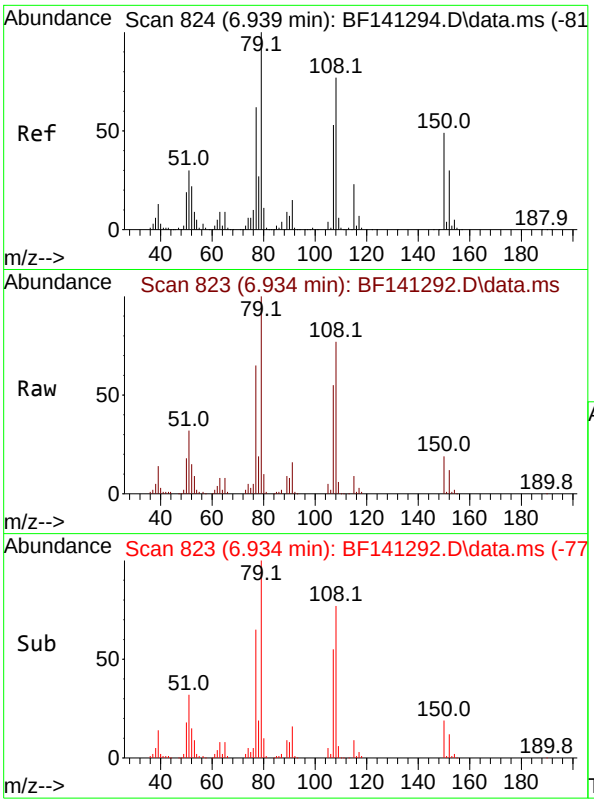


#14
1,2-Dichlorobenzene
Concen: 11.160 ng
RT: 6.969 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:146 Resp: 106335

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.5	75.7
111	43.8	36.6	55.0





#15
Benzyl Alcohol
Concen: 10.665 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

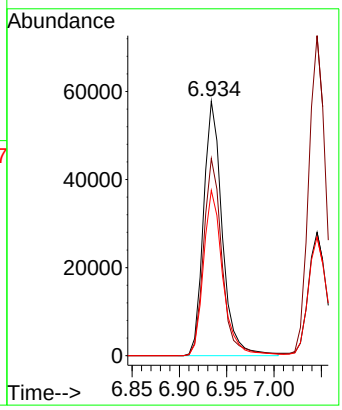
Tgt Ion: 79 Resp: 7937

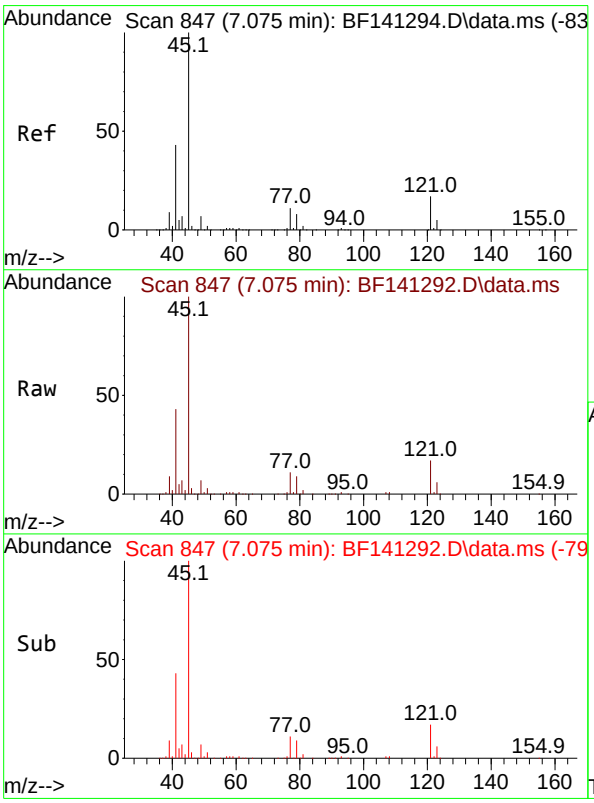
Ion	Ratio	Lower	Upper
79	100		
108	77.5	61.4	92.0
77	65.0	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

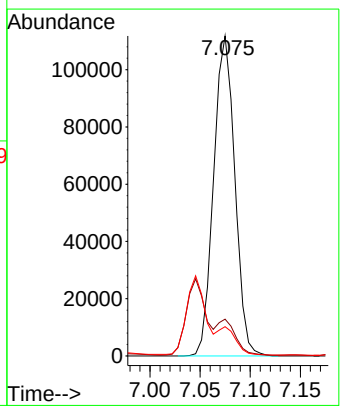


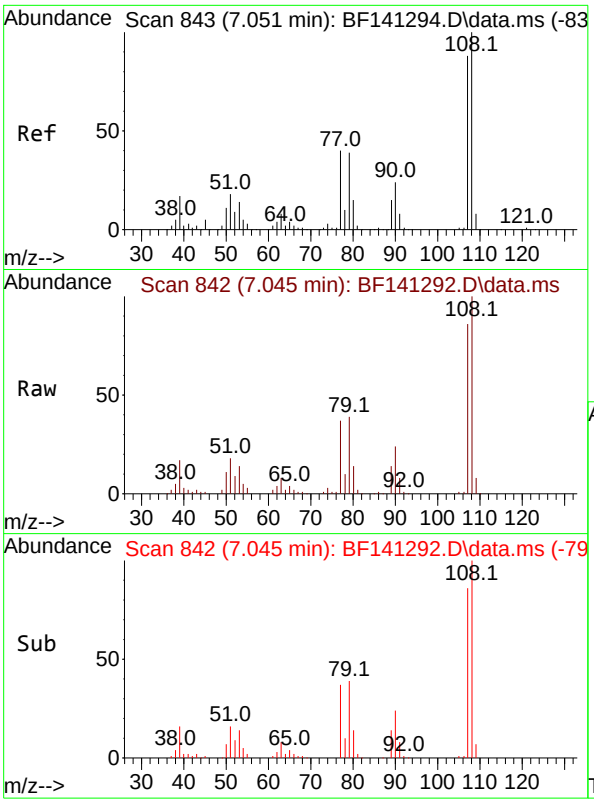


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.661 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 45 Resp: 164185

Ion	Ratio	Lower	Upper
45	100		
77	11.5	0.0	31.8
79	9.2	0.0	29.1

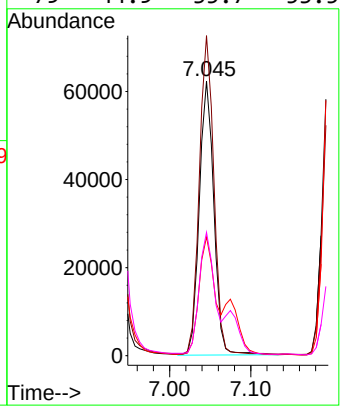




#17
2-Methylphenol
Concen: 10.446 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:107 Resp: 7764

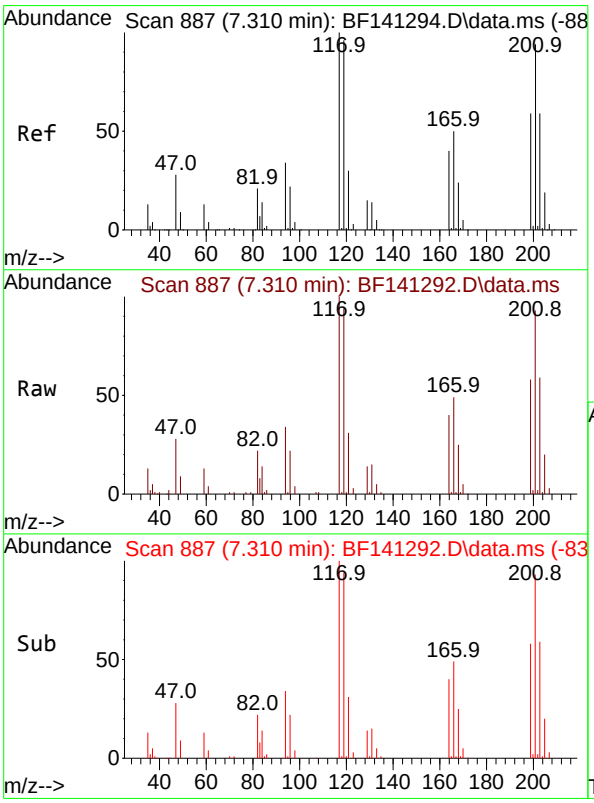
Ion	Ratio	Lower	Upper
107	100		
108	116.6	90.8	136.2
77	43.3	36.2	54.4
79	44.9	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

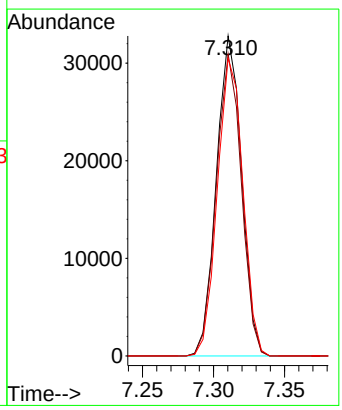
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

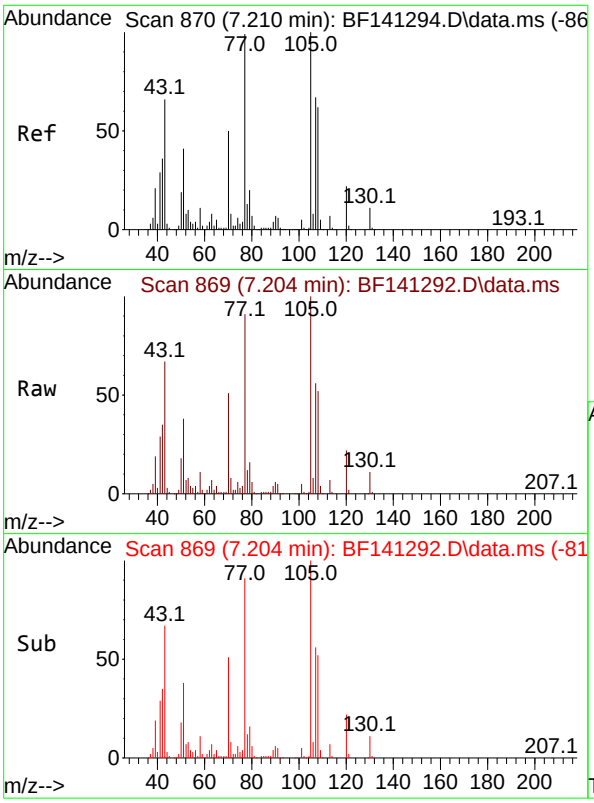


#18
Hexachloroethane
Concen: 10.721 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:117 Resp: 40445

Ion	Ratio	Lower	Upper
117	100		
119	94.3	76.6	114.8
201	93.1	74.8	112.2

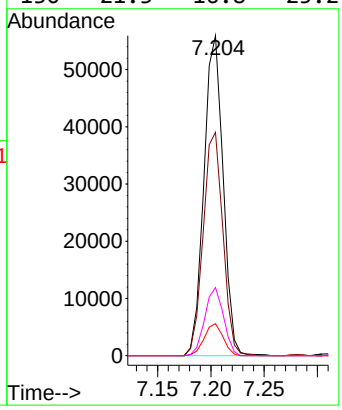




#19
n-Nitroso-di-n-propylamine
Concen: 10.815 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 70 Resp: 7007

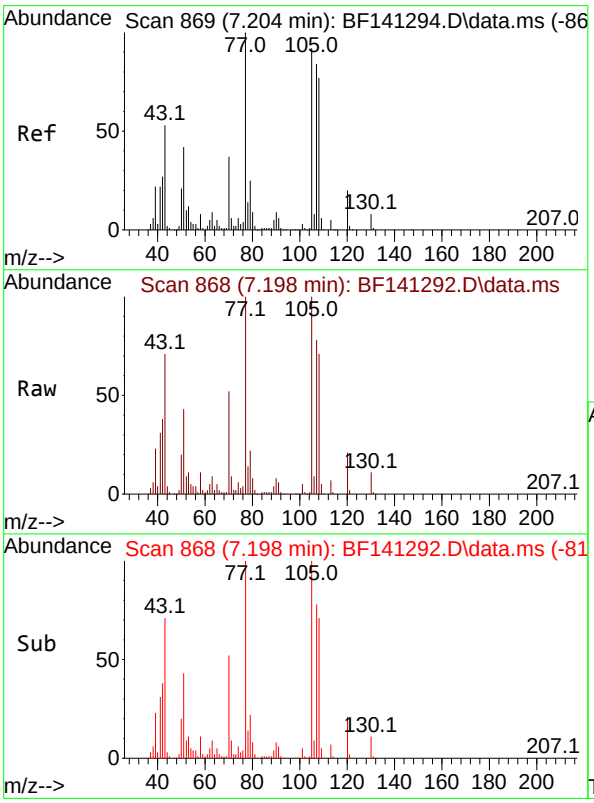
Ion	Ratio	Lower	Upper
70	100		
42	69.8	56.8	85.2
101	10.0	7.7	11.5
130	21.3	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

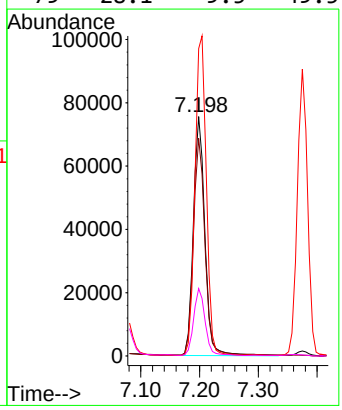
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

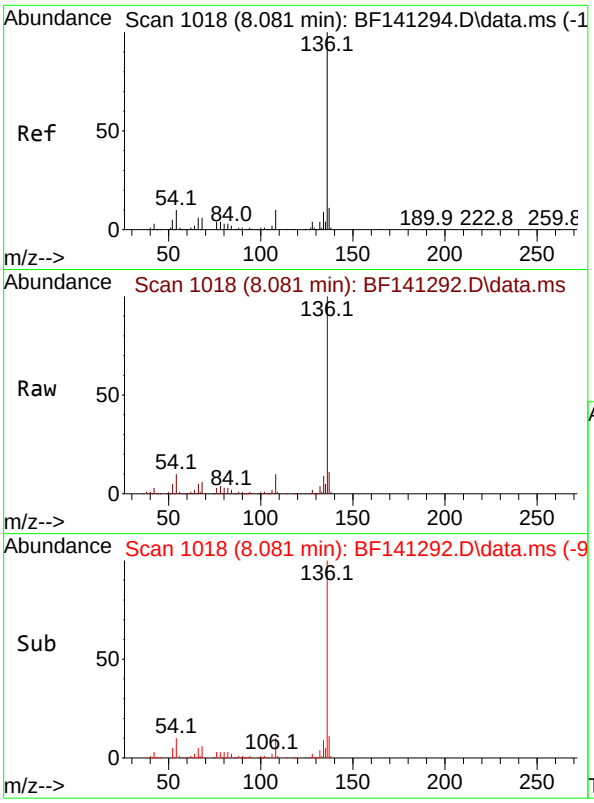


#20
3+4-Methylphenols
Concen: 11.310 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:107 Resp: 103360

Ion	Ratio	Lower	Upper
107	100		
108	91.0	70.9	110.9
77	128.4	98.5	138.5
79	28.1	9.5	49.5

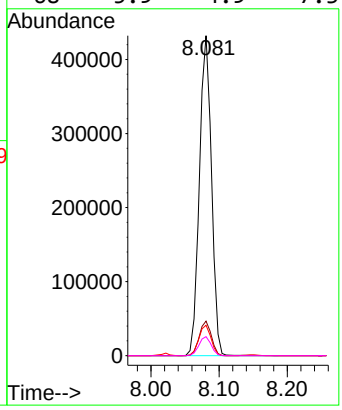




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:136 Resp: 53332(

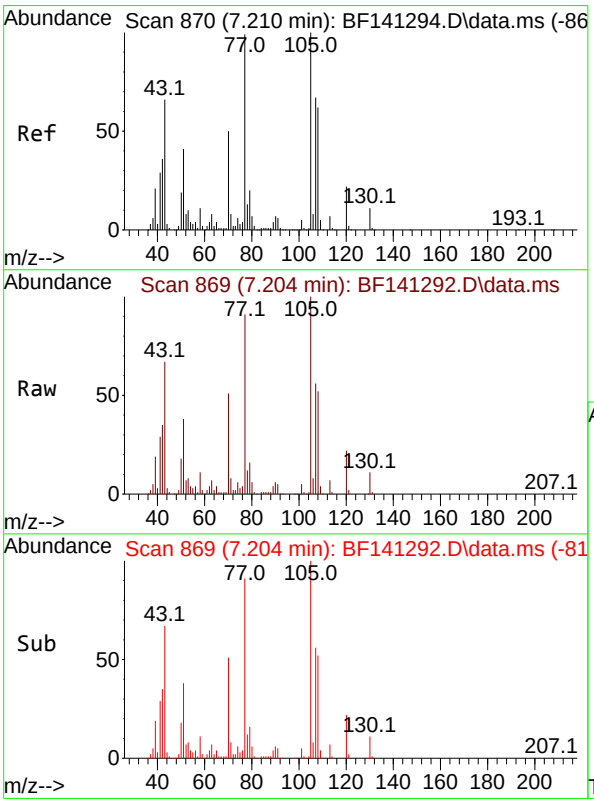
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.5	7.8	11.8
68	5.9	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

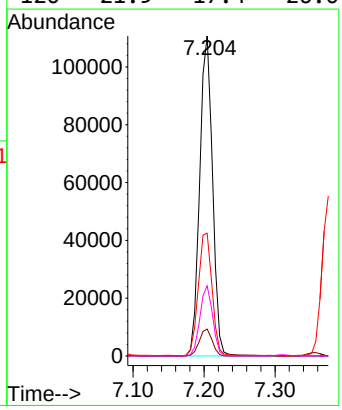
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

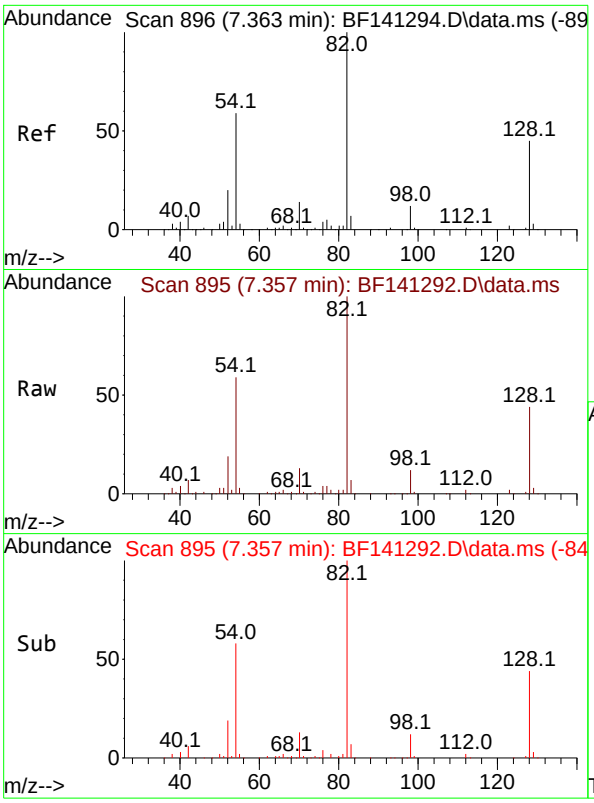


#22
Acetophenone
Concen: 11.036 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:105 Resp: 139527

Ion	Ratio	Lower	Upper
105	100		
71	8.4	6.8	10.2
51	38.3	32.6	49.0
120	21.9	17.4	26.0





#23
Nitrobenzene-d5
Concen: 20.937 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

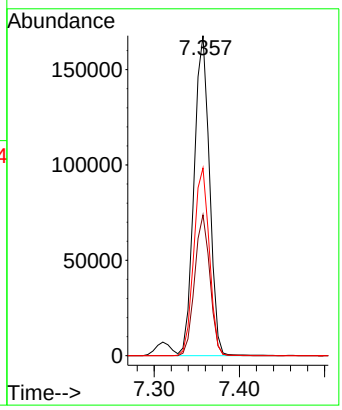
Tgt Ion: 82 Resp: 21104

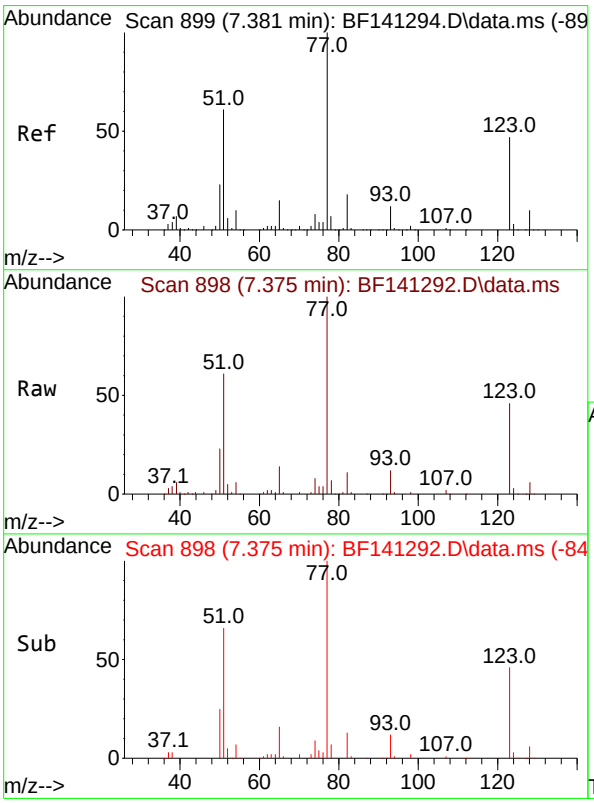
Ion	Ratio	Lower	Upper
82	100		
128	44.0	35.7	53.5
54	58.7	47.1	70.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

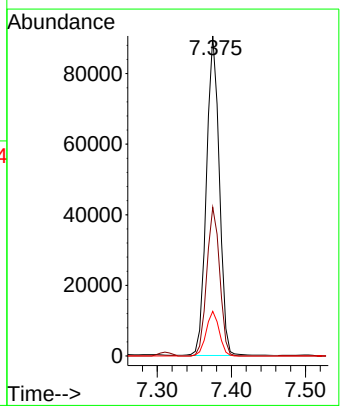


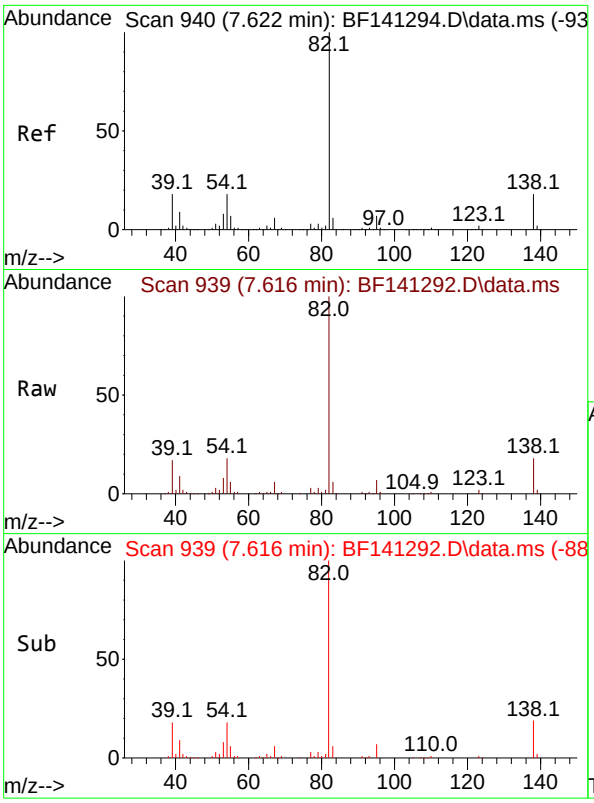


#24
Nitrobenzene
Concen: 10.474 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 77 Resp: 109497

Ion	Ratio	Lower	Upper
77	100		
123	46.5	37.3	55.9
65	14.0	11.8	17.6

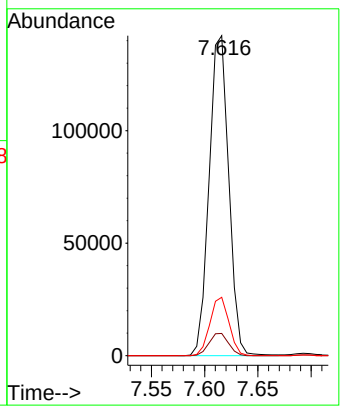




#25
Isophorone
Concen: 10.480 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 82 Resp: 18256

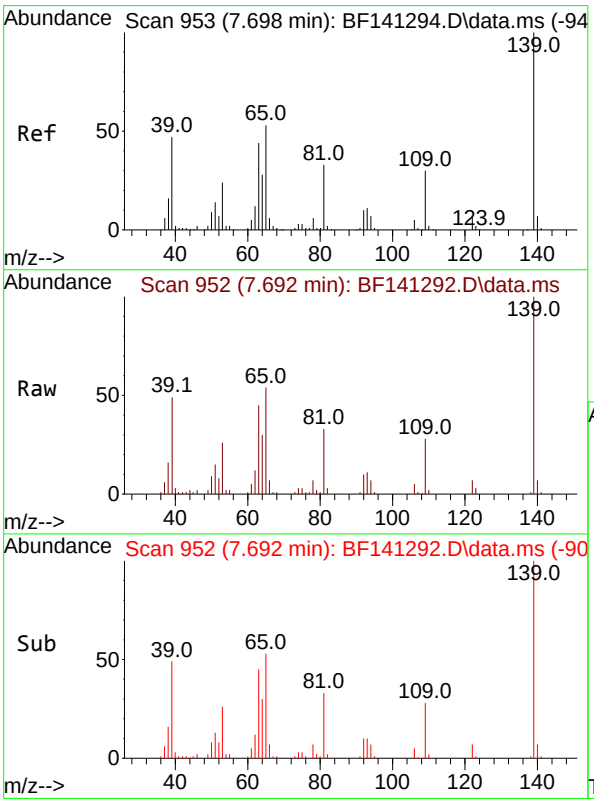
Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.8	8.6
138	18.2	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

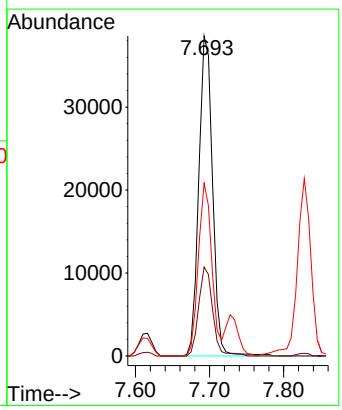
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

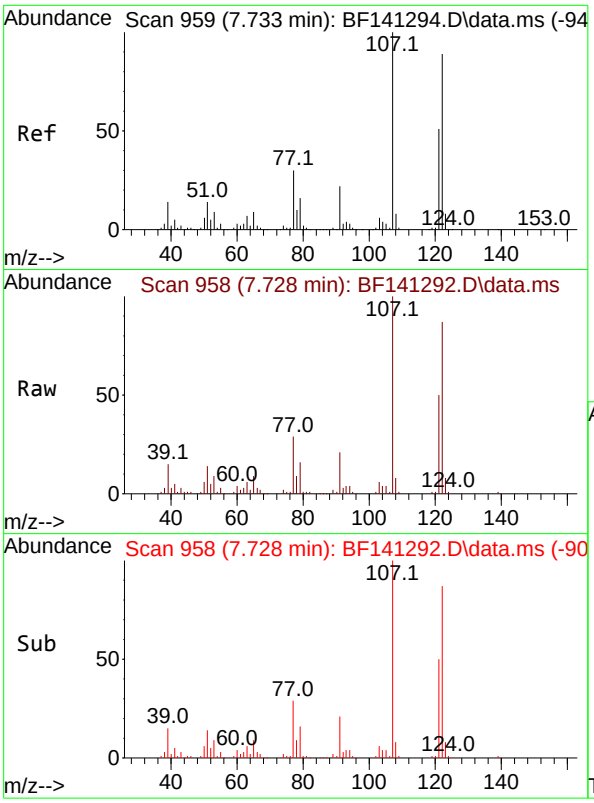


#26
2-Nitrophenol
Concen: 10.167 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:139 Resp: 49783

Ion	Ratio	Lower	Upper
139	100		
109	27.8	23.8	35.6
65	54.0	42.2	63.4

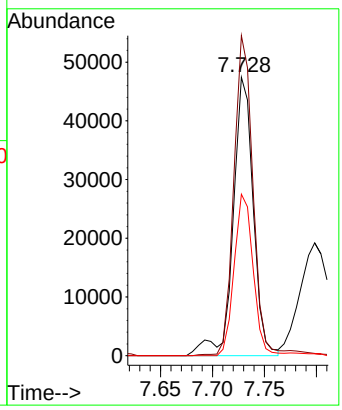




#27
2,4-Dimethylphenol
Concen: 10.177 ng m
RT: 7.728 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:122 Resp: 6368

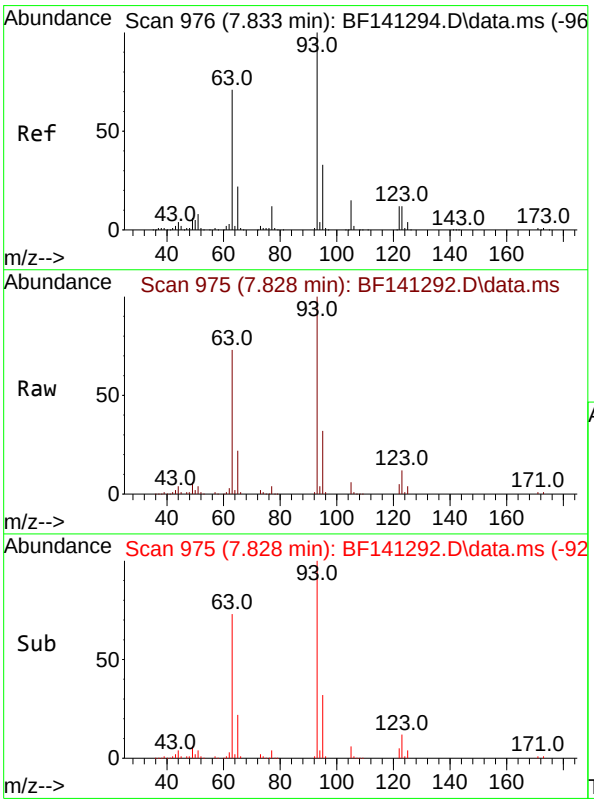
Ion	Ratio	Lower	Upper
122	100		
107	114.9	89.9	134.9
121	58.0	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

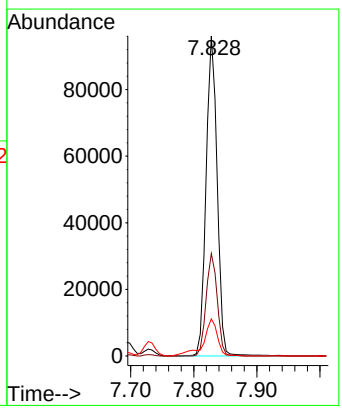
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

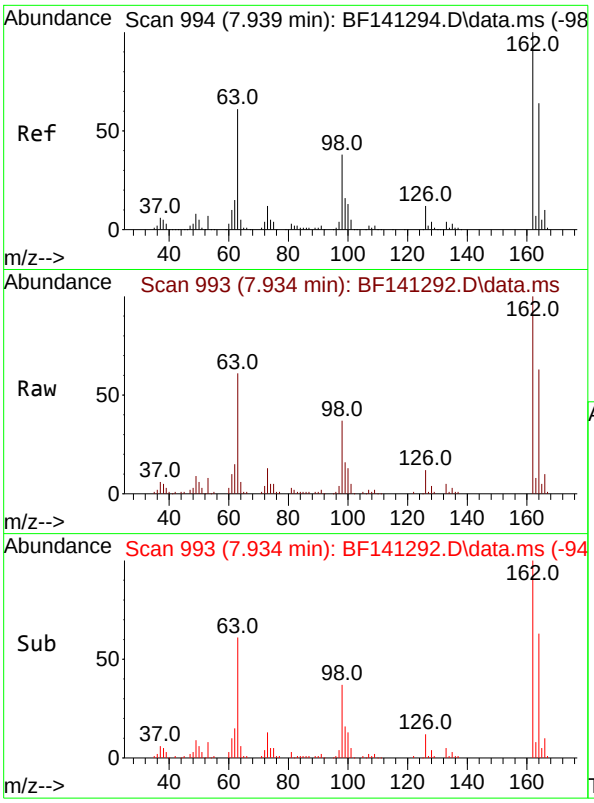


#28
bis(2-Chloroethoxy)methane
Concen: 10.561 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 93 Resp: 117232

Ion	Ratio	Lower	Upper
93	100		
95	32.0	26.2	39.2
123	11.6	10.2	15.4

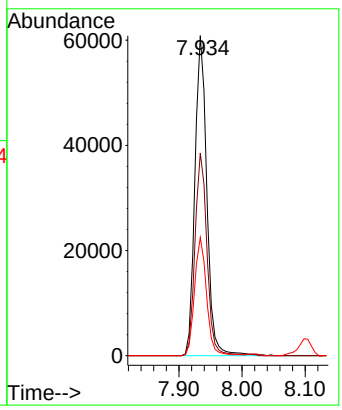




#29
2,4-Dichlorophenol
Concen: 10.457 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:162 Resp: 7994

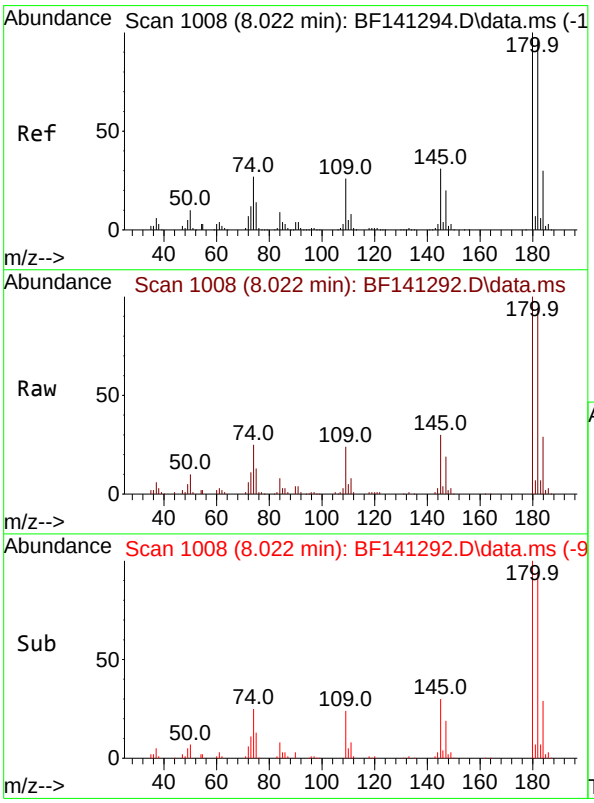
Ion	Ratio	Lower	Upper
162	100		
164	63.4	44.2	84.2
98	36.9	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

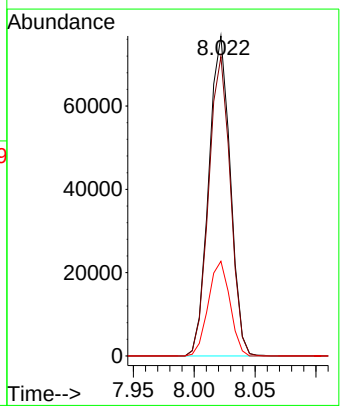
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

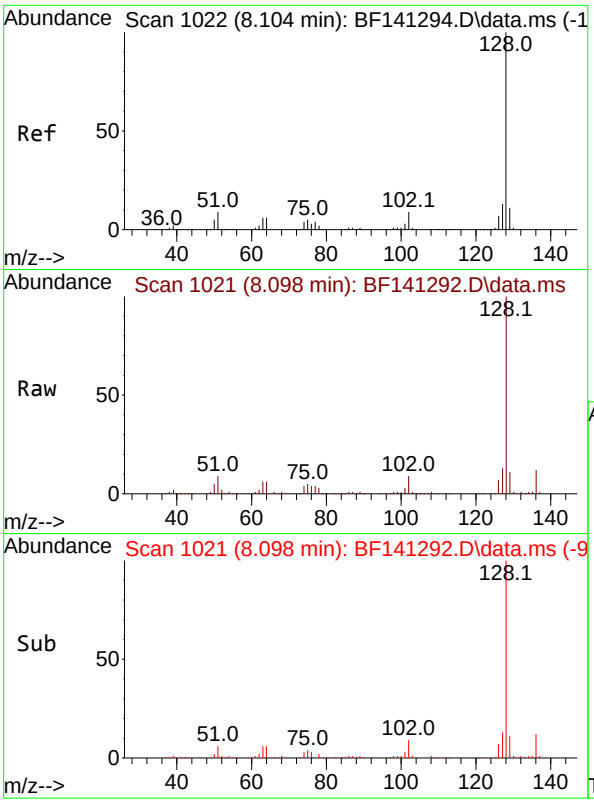


#30
1,2,4-Trichlorobenzene
Concen: 10.767 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:180 Resp: 94419

Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.4	114.6
145	29.6	24.9	37.3





#31
Naphthalene
Concen: 10.887 ng
RT: 8.098 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

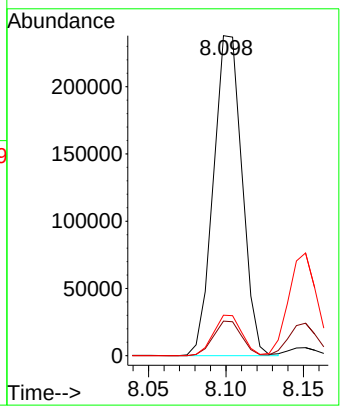
Tgt Ion:128 Resp: 30538(

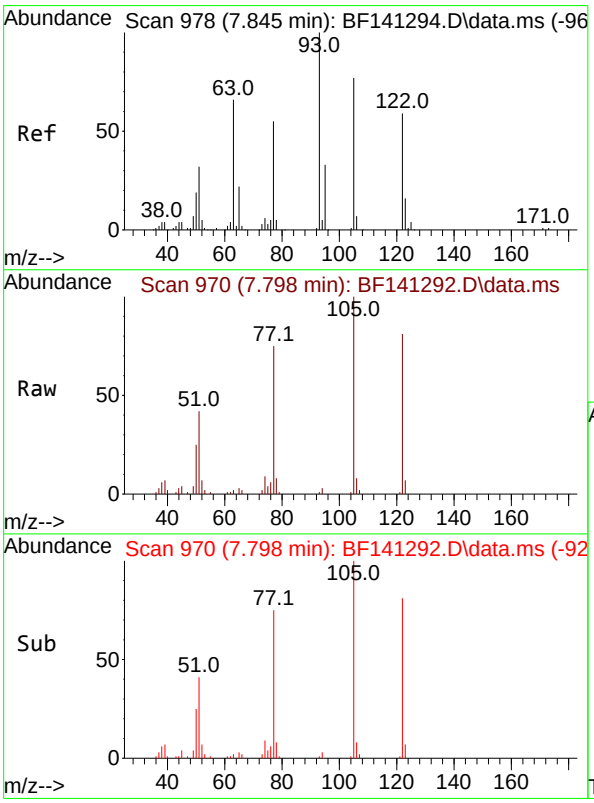
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.9	13.3
127	12.7	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

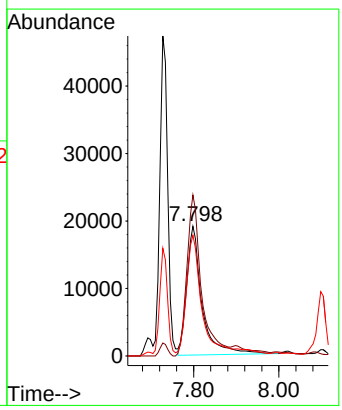


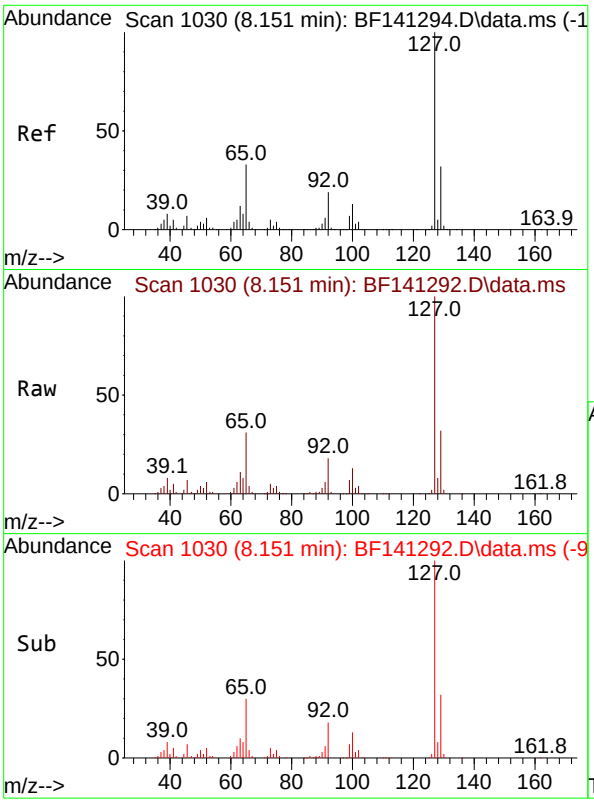


#32
Benzoic acid
Concen: 8.367 ng
RT: 7.798 min Scan# 970
Delta R.T. -0.047 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:122 Resp: 47549

Ion	Ratio	Lower	Upper
122	100		
105	124.1	103.4	143.4
77	93.0	70.9	110.9

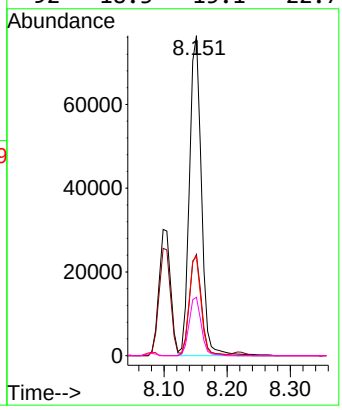




#33
4-Chloroaniline
Concen: 10.703 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:127 Resp: 10085

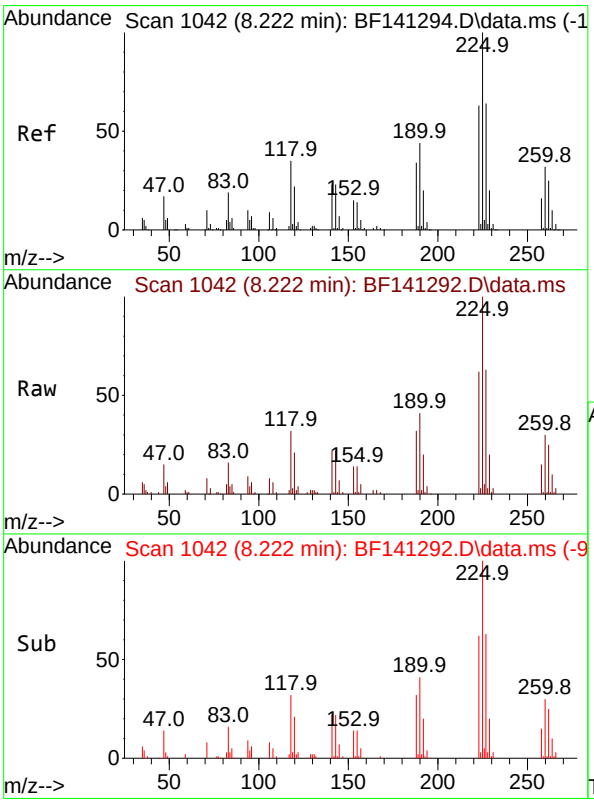
Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.7	38.5
65	30.9	26.4	39.6
92	18.3	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

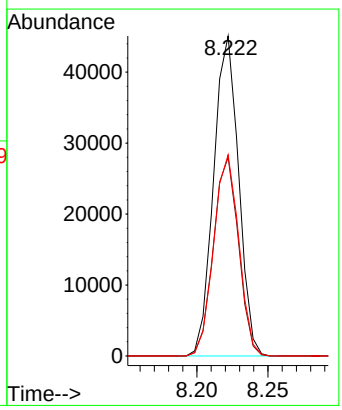
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

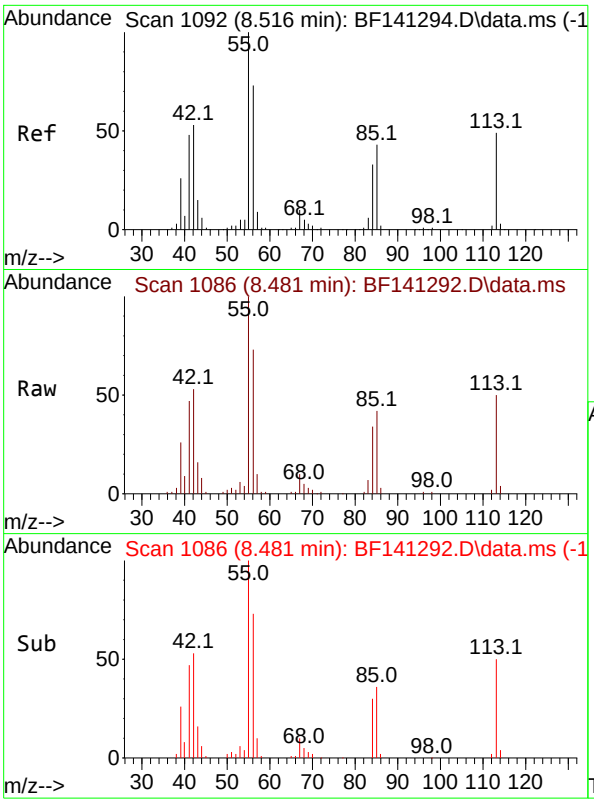


#34
Hexachlorobutadiene
Concen: 10.736 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:225 Resp: 55103

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.4	75.6
227	62.9	51.3	76.9





#35
Caprolactam
Concen: 10.256 ng
RT: 8.481 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

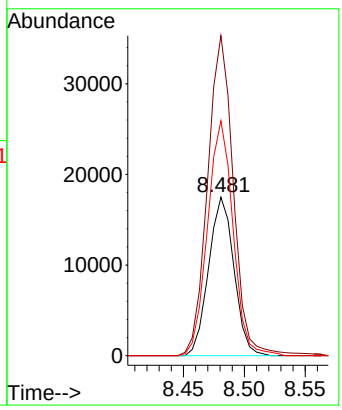
Tgt Ion:113 Resp: 2536

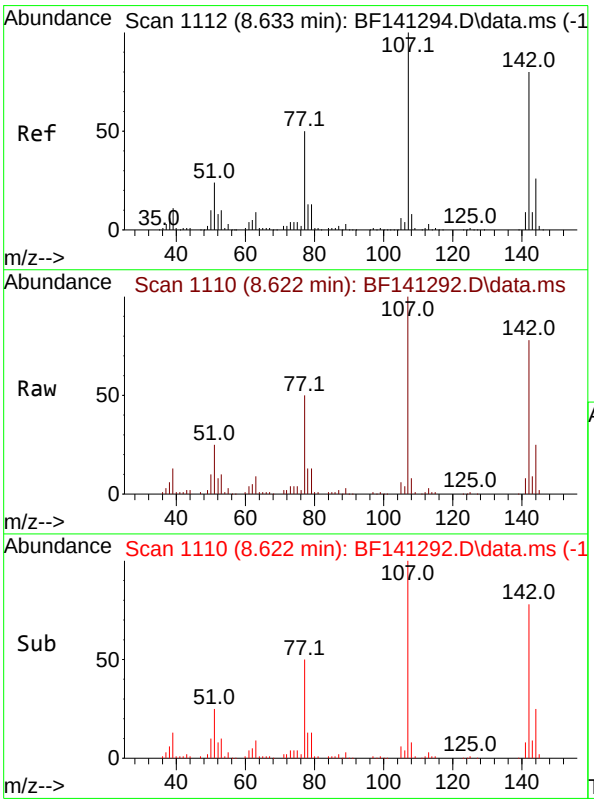
Ion	Ratio	Lower	Upper
113	100		
55	201.9	182.9	222.9
56	148.2	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

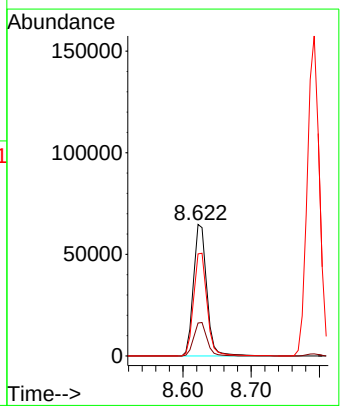


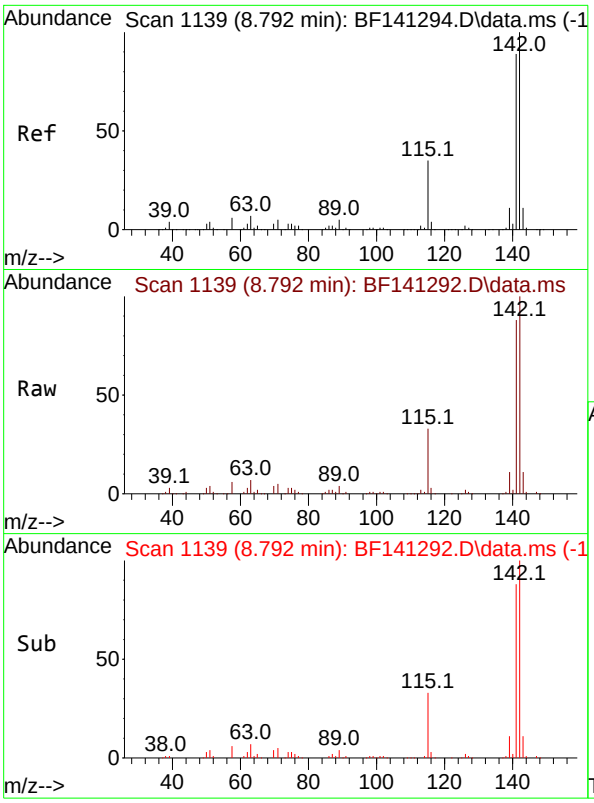


#36
4-Chloro-3-methylphenol
Concen: 10.674 ng
RT: 8.622 min Scan# 1110
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:107 Resp: 87592

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.7	31.1
142	77.6	63.8	95.8





#37
2-Methylnaphthalene
Concen: 10.925 ng
RT: 8.792 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

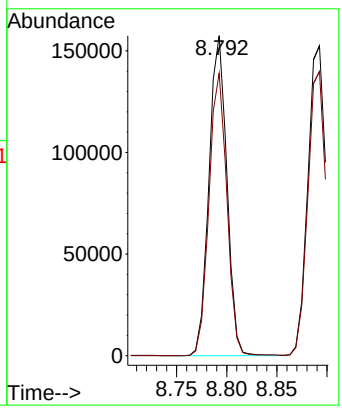
Tgt Ion:142 Resp: 19516

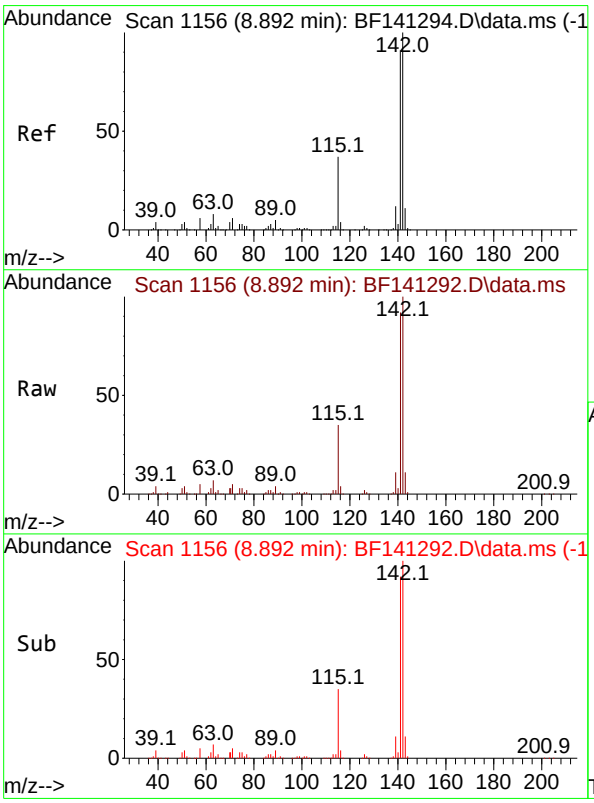
Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

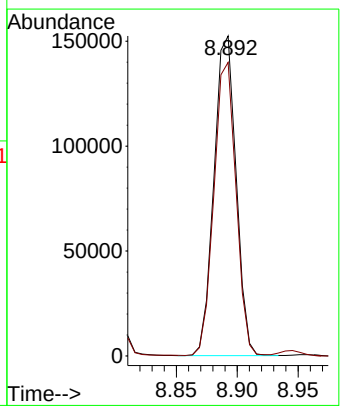


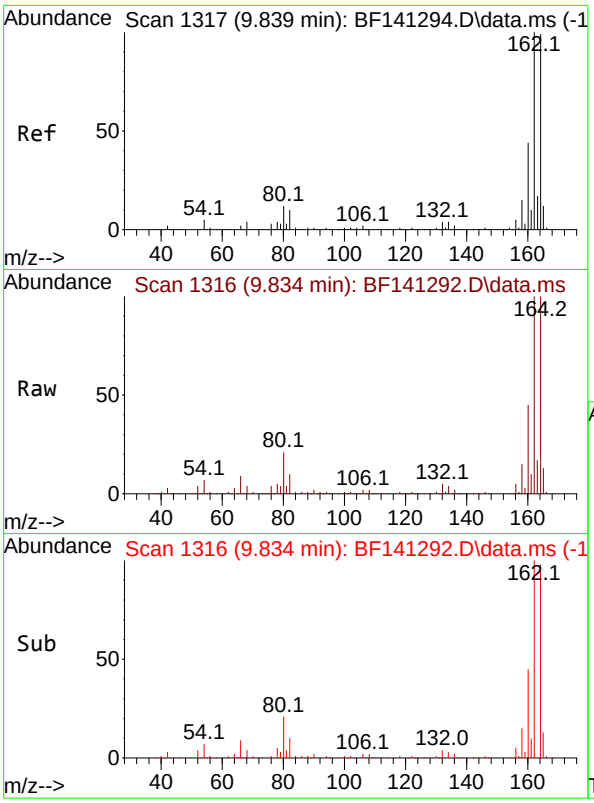


#38
1-Methylnaphthalene
Concen: 11.022 ng
RT: 8.892 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:142 Resp: 192861

Ion	Ratio	Lower	Upper
142	100		
141	91.7	73.2	109.8

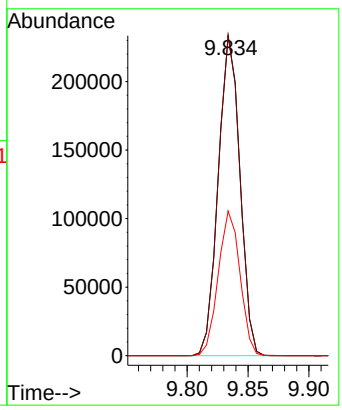




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.834 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:164 Resp: 28955

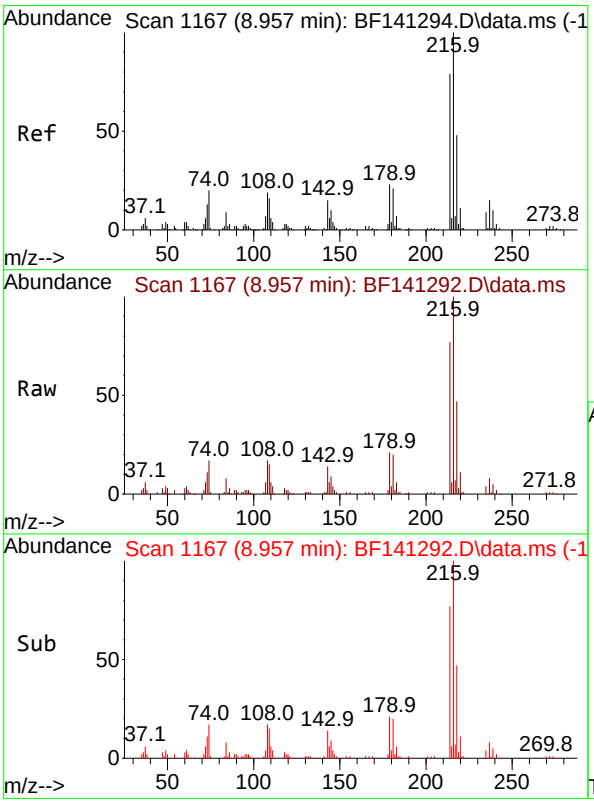
Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.6	121.0
160	45.2	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

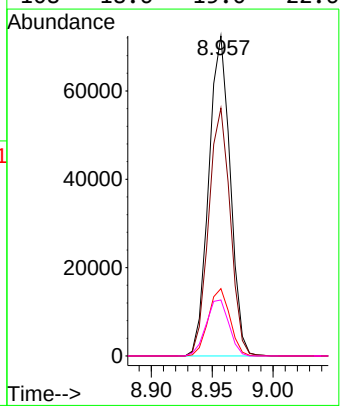
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

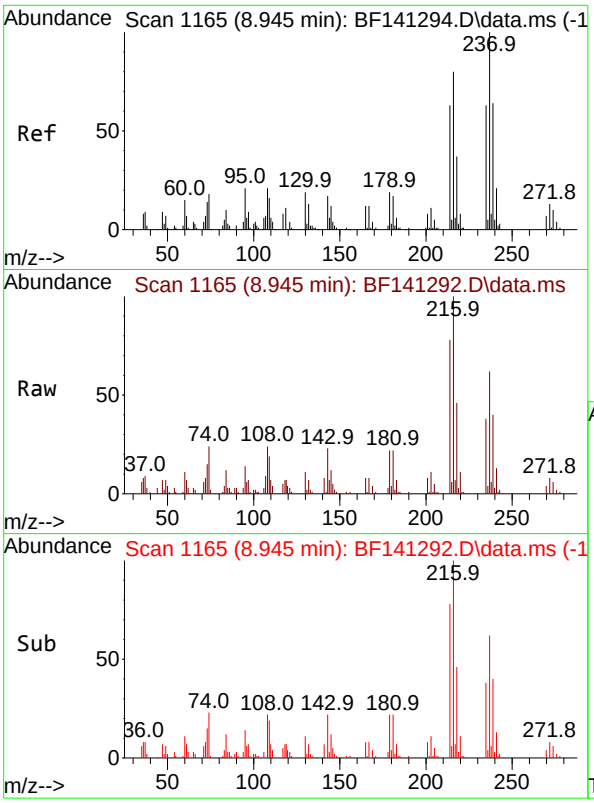


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.775 ng
RT: 8.957 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:216 Resp: 88710

Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.2	94.8
179	21.1	17.8	26.8
108	18.6	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 9.212 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

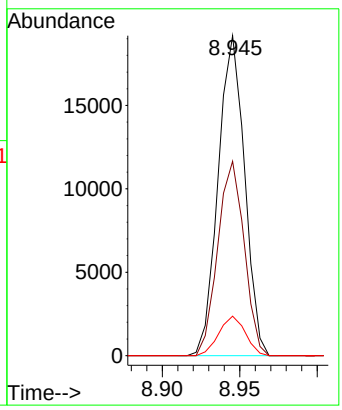
Tgt Ion:237 Resp: 2275

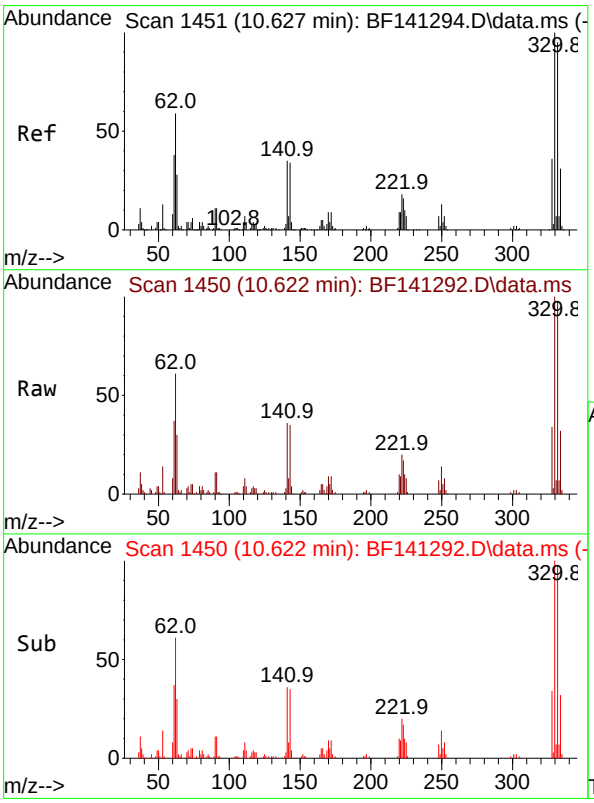
Ion	Ratio	Lower	Upper
237	100		
235	60.8	42.9	82.9
272	12.3	0.0	32.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

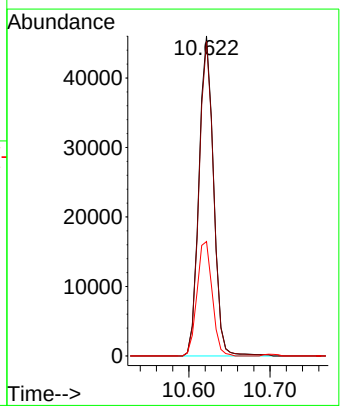


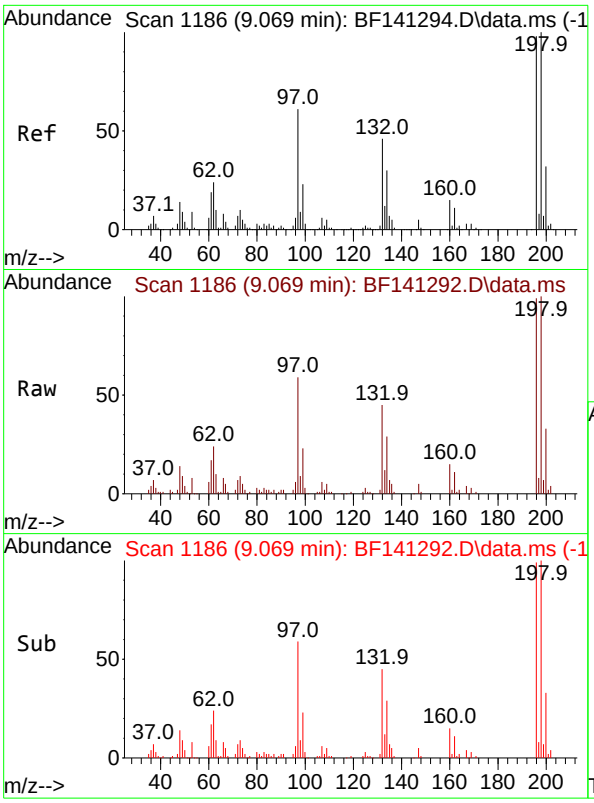


#42
2,4,6-Tribromophenol
Concen: 21.761 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:330 Resp: 57417

Ion	Ratio	Lower	Upper
330	100		
332	98.0	76.1	114.1
141	37.3	28.8	43.2

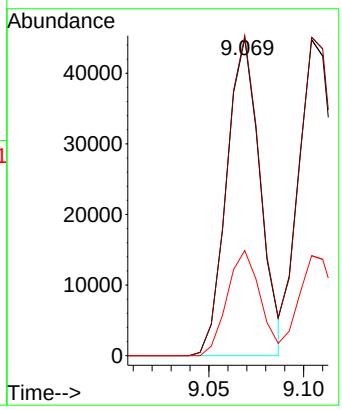




#43
2,4,6-Trichlorophenol
Concen: 10.241 ng
RT: 9.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:196 Resp: 5503

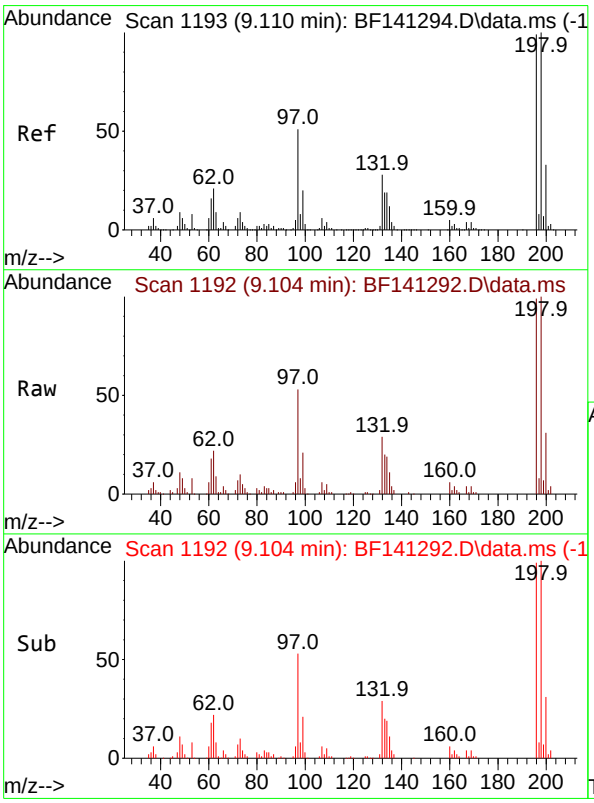
Ion	Ratio	Lower	Upper
196	100		
198	101.0	81.8	122.6
200	33.2	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

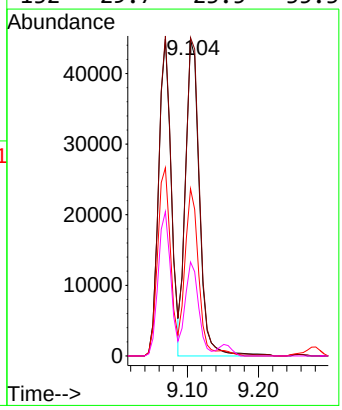
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

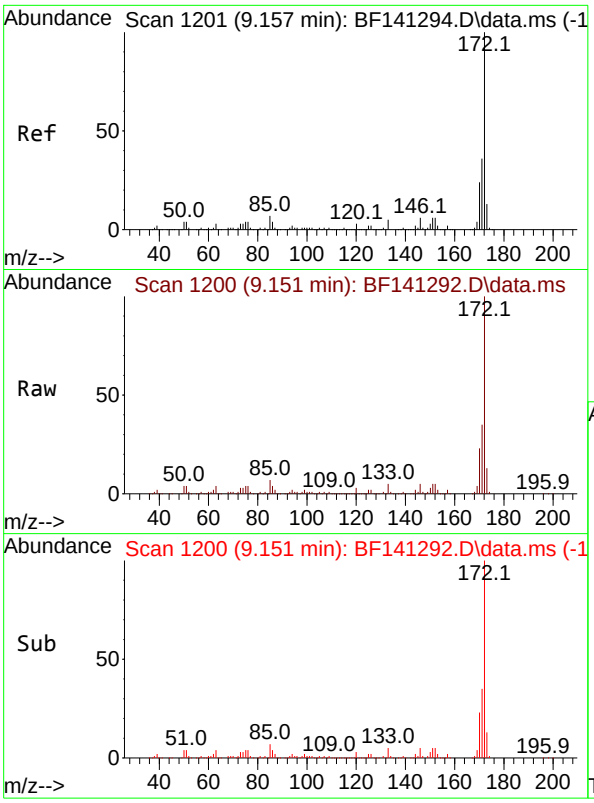


#44
2,4,5-Trichlorophenol
Concen: 10.518 ng
RT: 9.104 min Scan# 1192
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:196 Resp: 61493

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.5	120.7
97	52.9	42.8	64.2
132	29.7	23.5	35.3

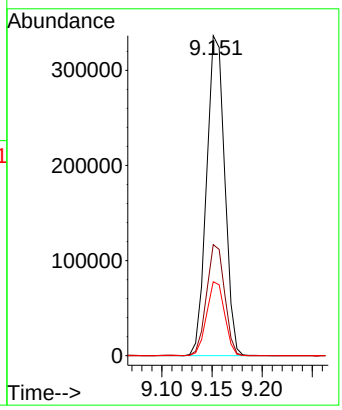




#45
2-Fluorobiphenyl
Concen: 22.581 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:172 Resp: 42385

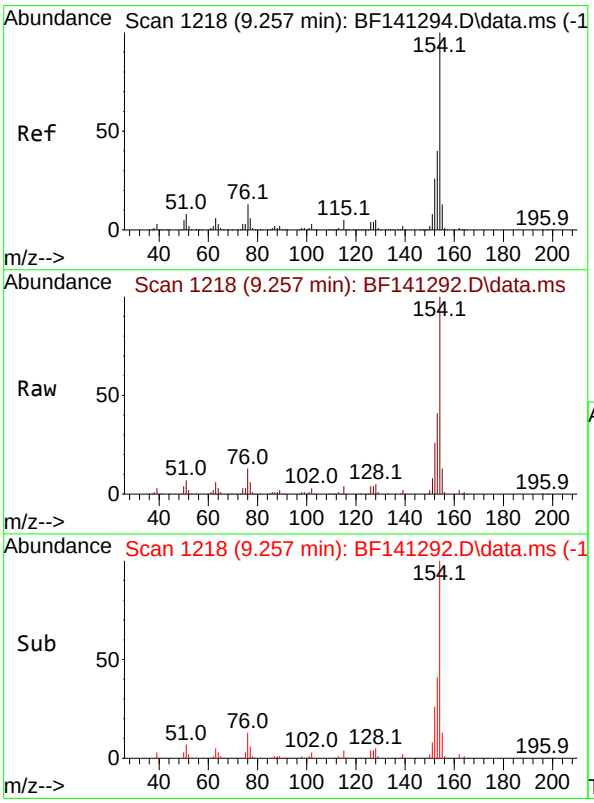
Ion	Ratio	Lower	Upper
172	100		
171	34.7	28.8	43.2
170	23.1	19.0	28.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

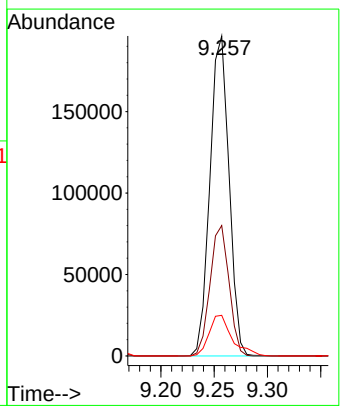
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

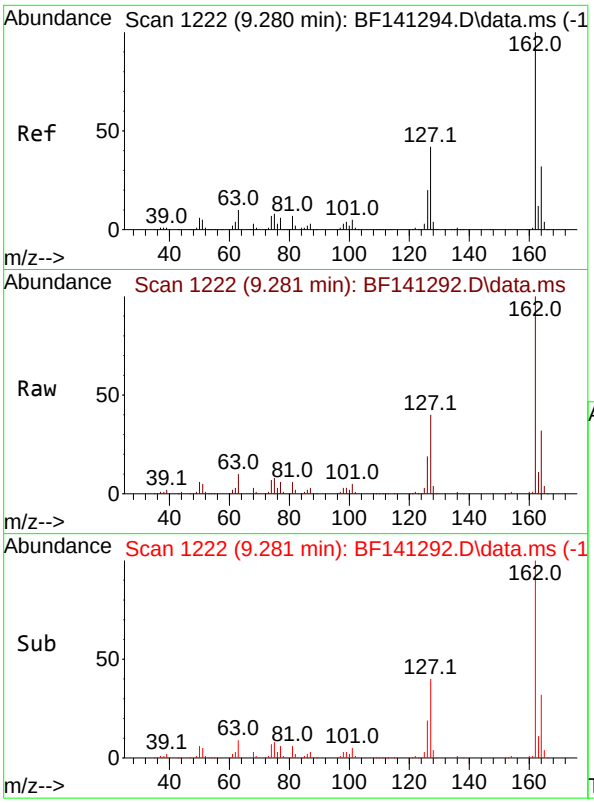


#46
1,1'-Biphenyl
Concen: 10.847 ng
RT: 9.257 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:154 Resp: 245028

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.0	60.0
76	12.7	0.0	32.8

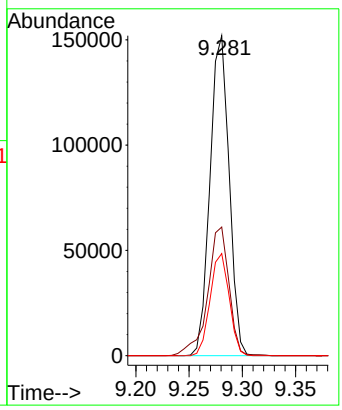




#47
2-Chloronaphthalene
Concen: 10.812 ng
RT: 9.281 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:162 Resp: 189709

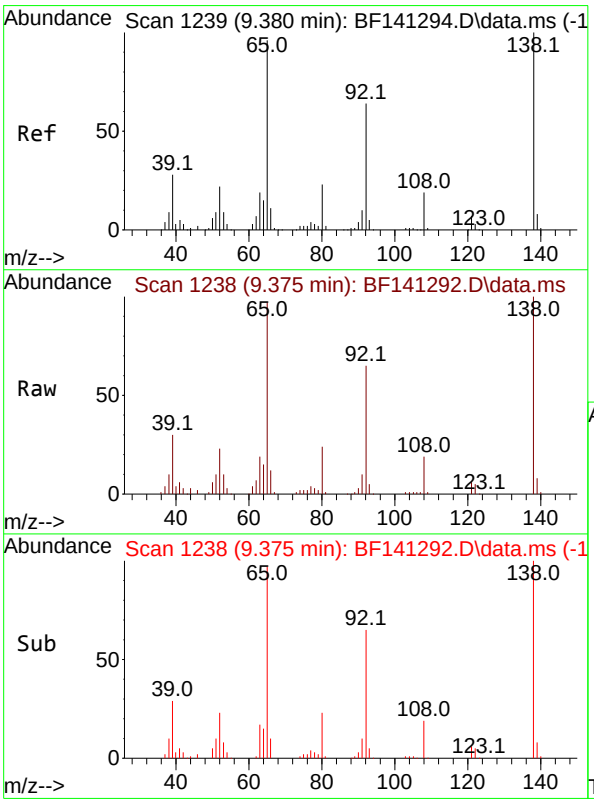
Ion	Ratio	Lower	Upper
162	100		
127	40.2	33.7	50.5
164	31.9	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

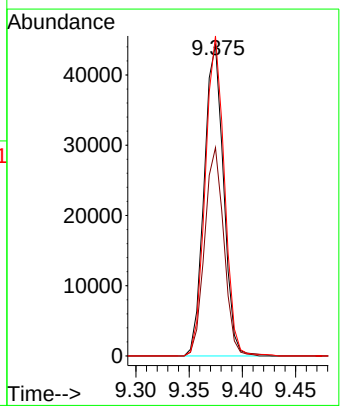
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

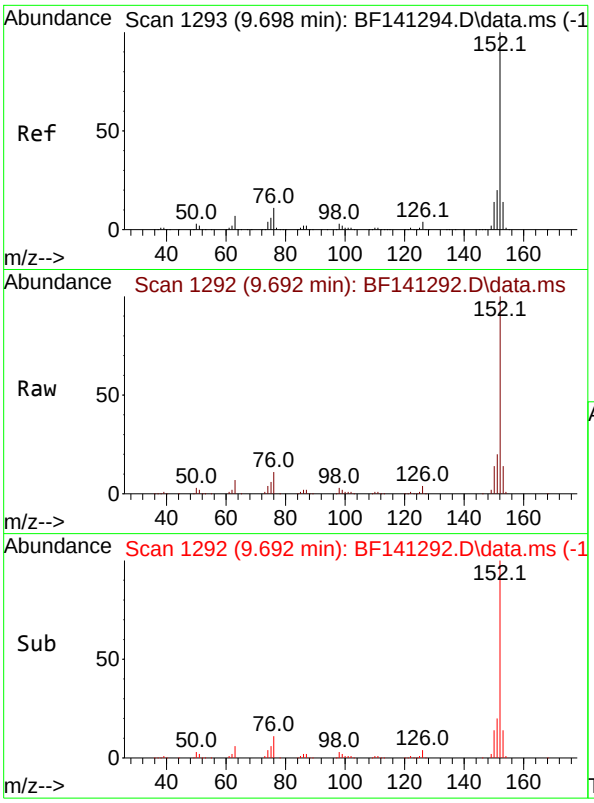


#48
2-Nitroaniline
Concen: 10.164 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 65 Resp: 56247

Ion	Ratio	Lower	Upper
65	100		
92	67.0	53.3	79.9
138	102.9	83.6	125.4

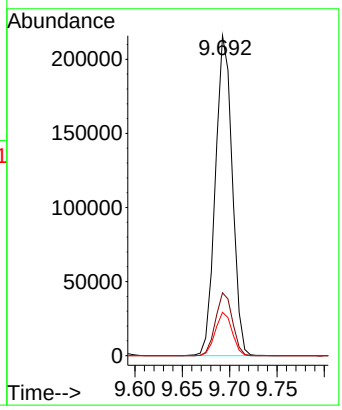




#49
Acenaphthylene
Concen: 10.895 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:152 Resp: 26847

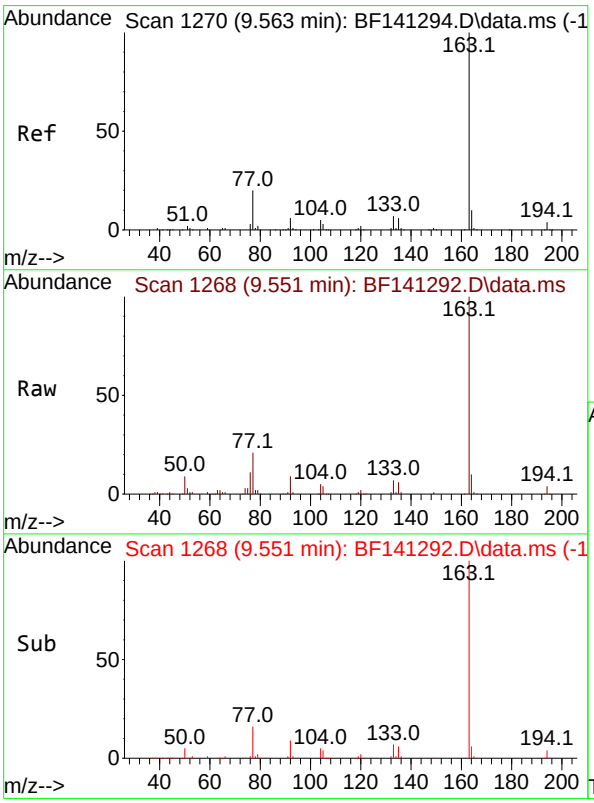
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.2	24.2
153	13.6	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

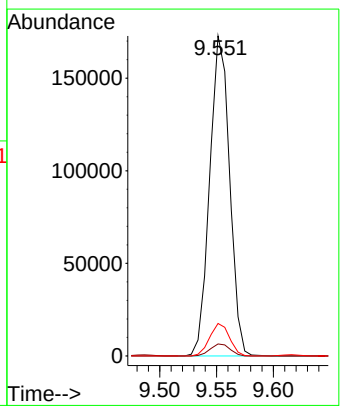
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

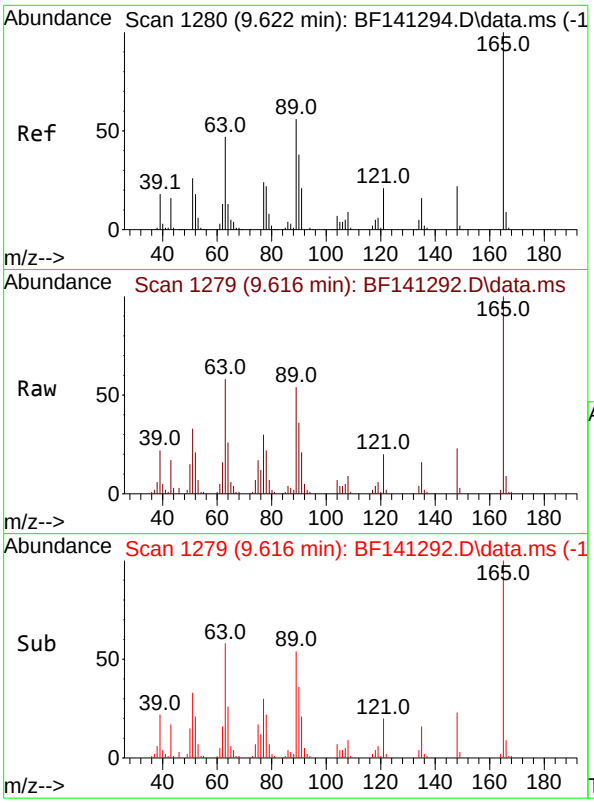


#50
Dimethylphthalate
Concen: 10.857 ng
RT: 9.551 min Scan# 1268
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:163 Resp: 210816

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.2	8.0	12.0





#51
2,6-Dinitrotoluene
Concen: 10.613 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

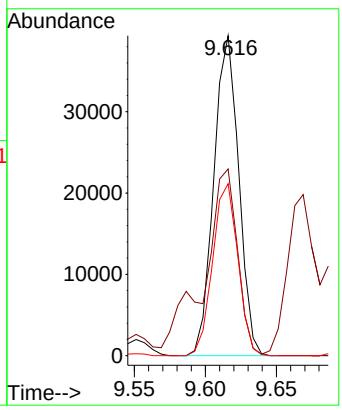
Tgt Ion:165 Resp: 4795

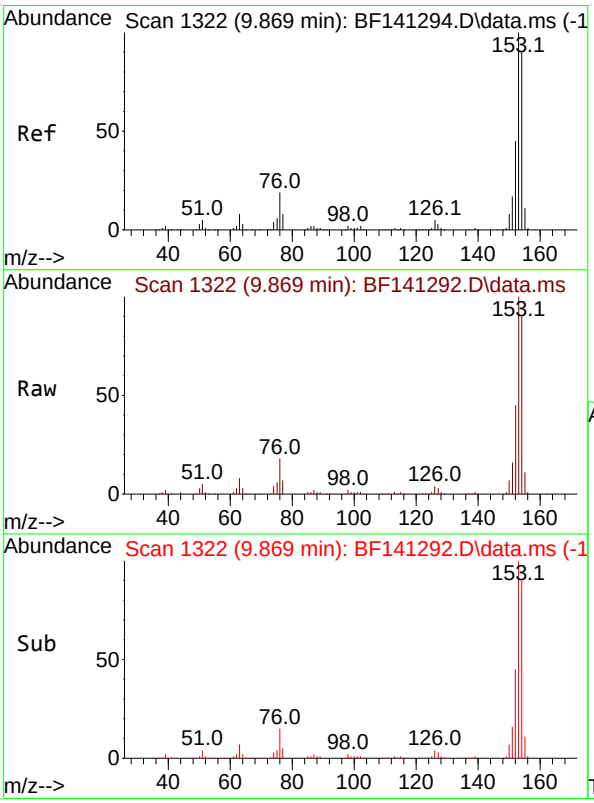
Ion	Ratio	Lower	Upper
165	100		
63	58.3	48.1	72.1
89	53.7	44.9	67.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

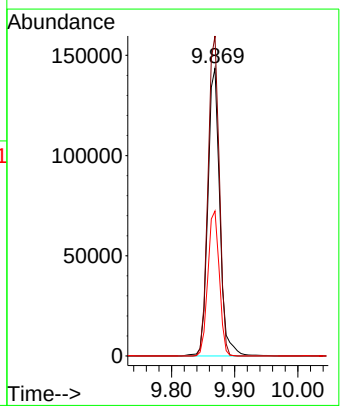


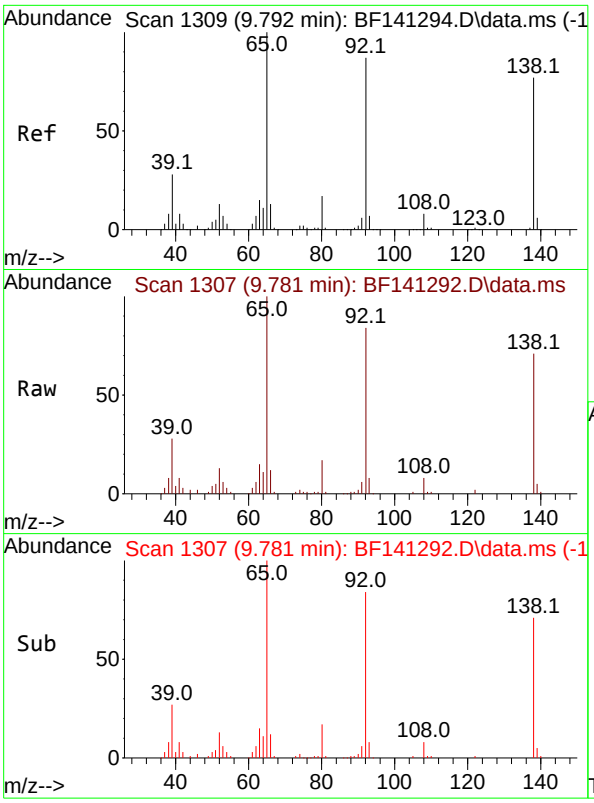


#52
Acenaphthene
Concen: 10.738 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:154 Resp: 188283

Ion	Ratio	Lower	Upper
154	100		
153	111.2	89.0	133.4
152	50.4	40.2	60.4





#53
3-Nitroaniline
Concen: 10.699 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

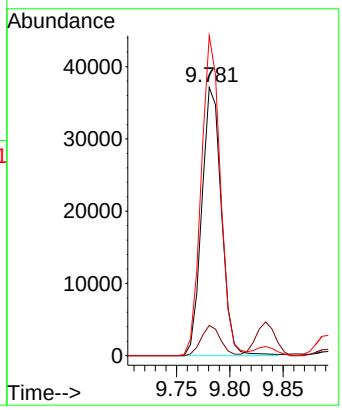
Tgt Ion:138 Resp: 4781

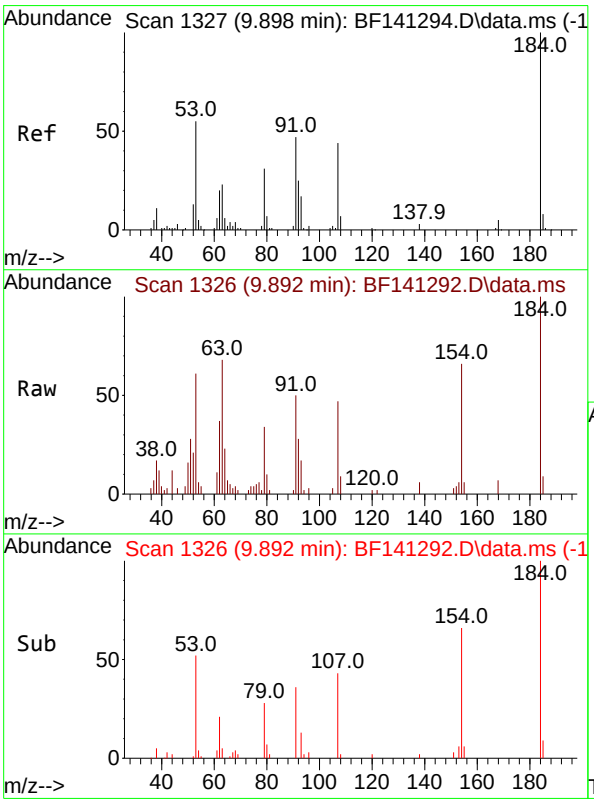
Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.6	12.8
92	119.2	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

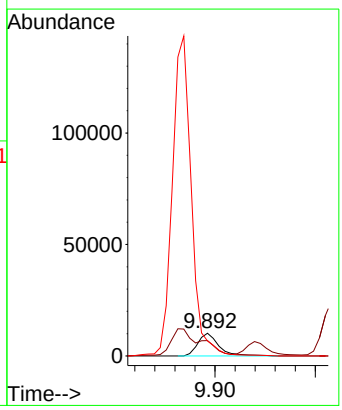


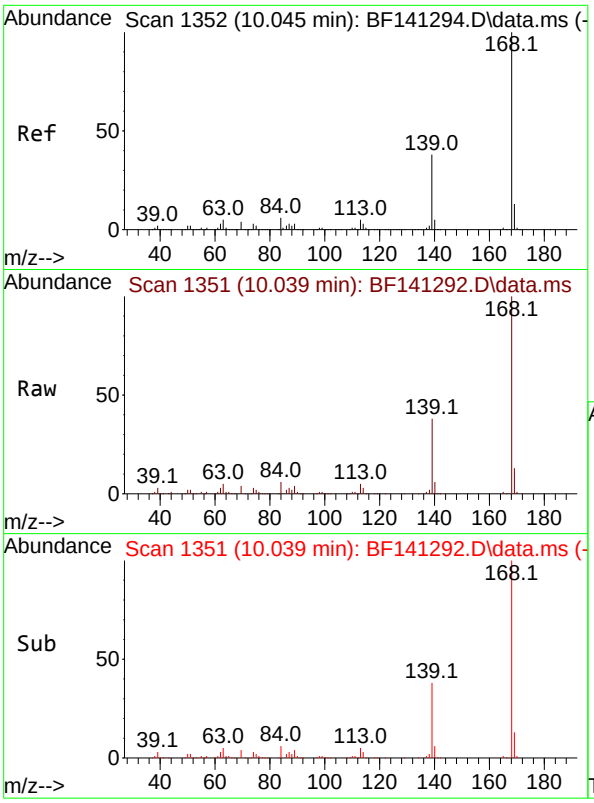


#54
2,4-Dinitrophenol
Concen: 6.925 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:184 Resp: 14749

Ion	Ratio	Lower	Upper
184	100		
63	67.9	54.1	81.1
154	66.2	50.7	76.1

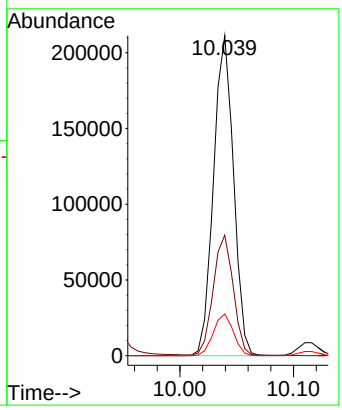




#55
Dibenzofuran
Concen: 11.038 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:168 Resp: 25883

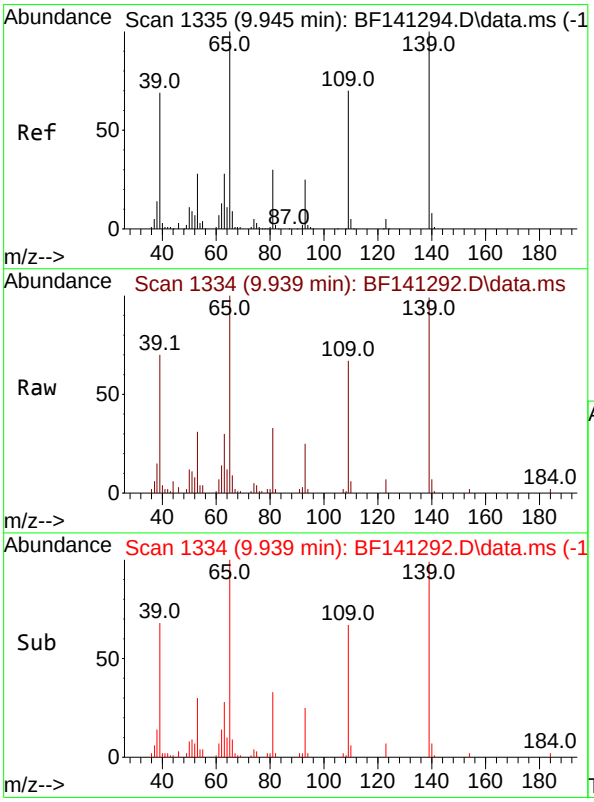
Ion	Ratio	Lower	Upper
168	100		
139	37.7	30.6	46.0
169	13.1	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

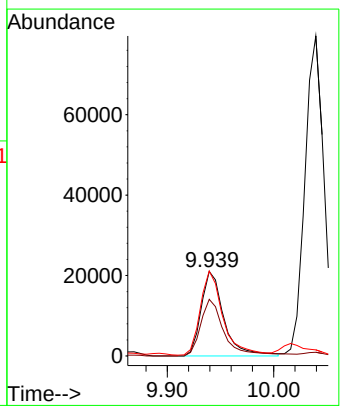
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

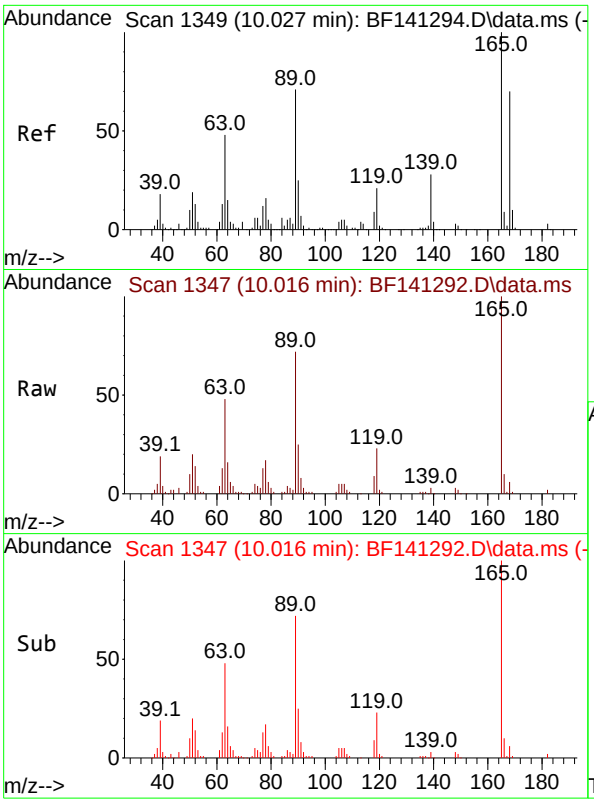


#56
4-Nitrophenol
Concen: 9.722 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:139 Resp: 31196

Ion	Ratio	Lower	Upper
139	100		
109	67.1	50.2	90.2
65	100.6	80.6	120.6

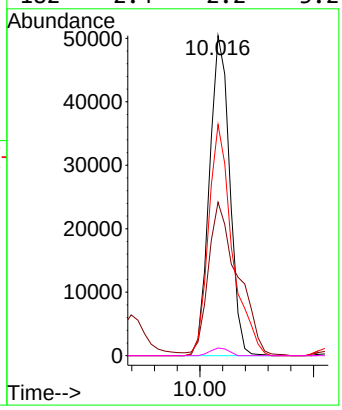




#57
2,4-Dinitrotoluene
Concen: 10.710 ng
RT: 10.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:165 Resp: 6241

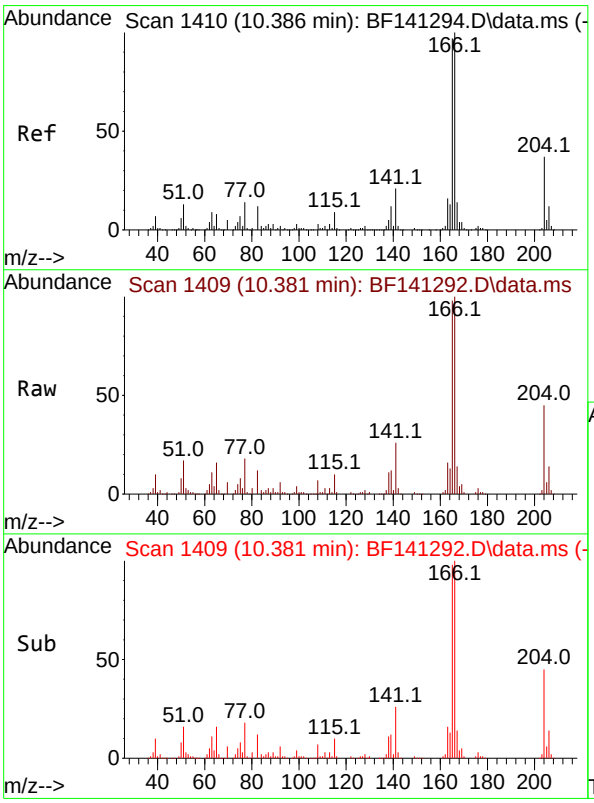
Ion	Ratio	Lower	Upper
165	100		
63	48.0	39.2	58.8
89	72.2	56.9	85.3
182	2.4	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

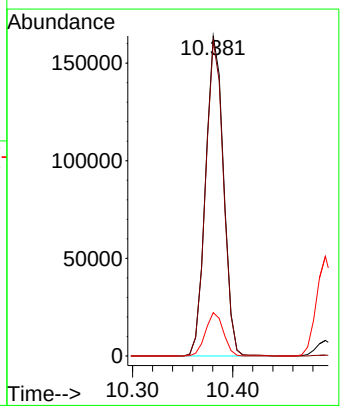
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

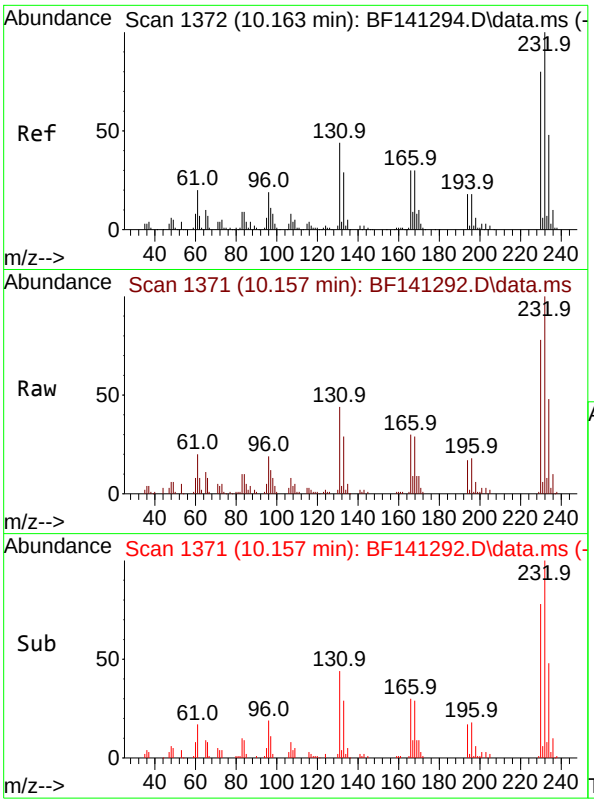


#58
Fluorene
Concen: 11.197 ng
RT: 10.381 min Scan# 1409
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:166 Resp: 204141

Ion	Ratio	Lower	Upper
166	100		
165	98.4	77.5	116.3
167	13.6	10.9	16.3

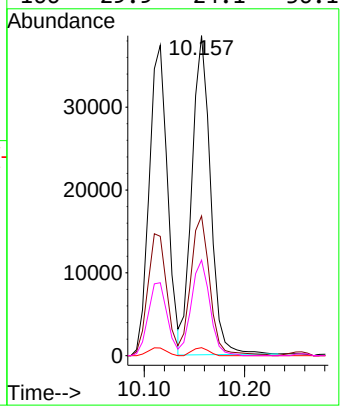




#59
2,3,4,6-Tetrachlorophenol
Concen: 10.737 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:232 Resp: 4959

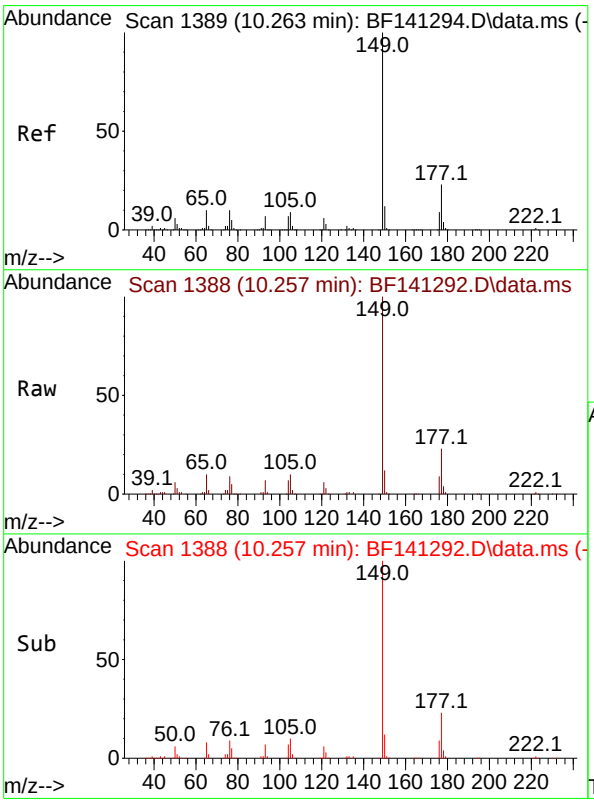
Ion	Ratio	Lower	Upper
232	100		
131	45.2	36.4	54.6
130	2.2	1.9	2.9
166	29.9	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

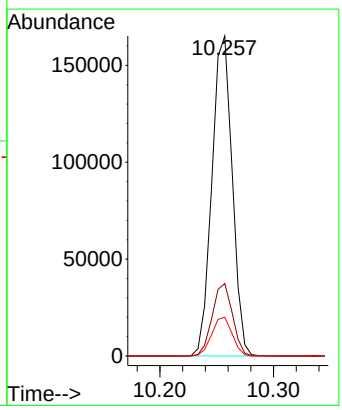
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

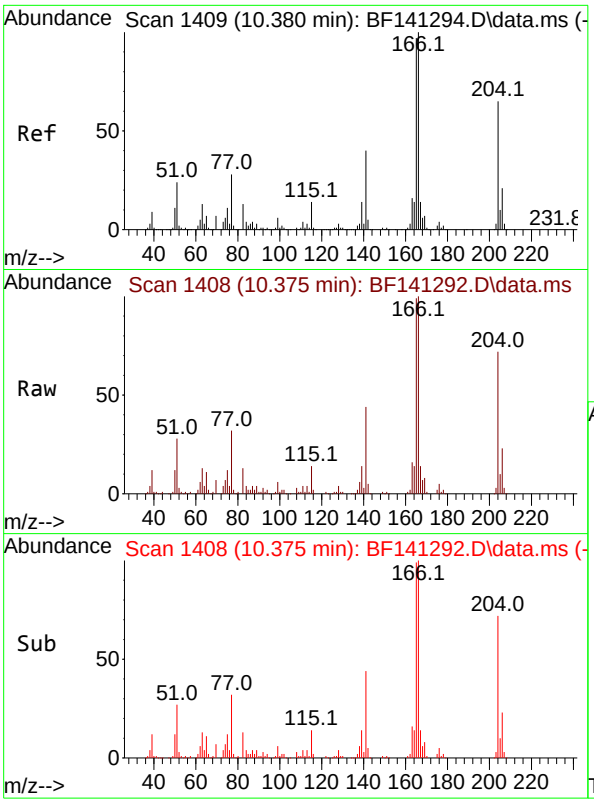


#60
Diethylphthalate
Concen: 10.908 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:149 Resp: 205131

Ion	Ratio	Lower	Upper
149	100		
177	22.7	18.5	27.7
150	12.1	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 11.294 ng
RT: 10.375 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

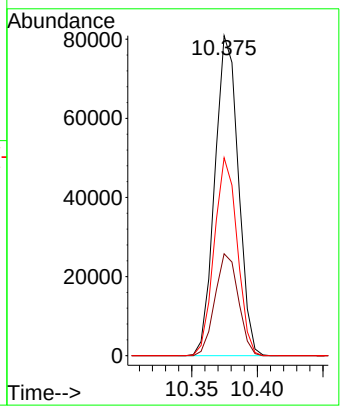
Tgt Ion:204 Resp: 10048

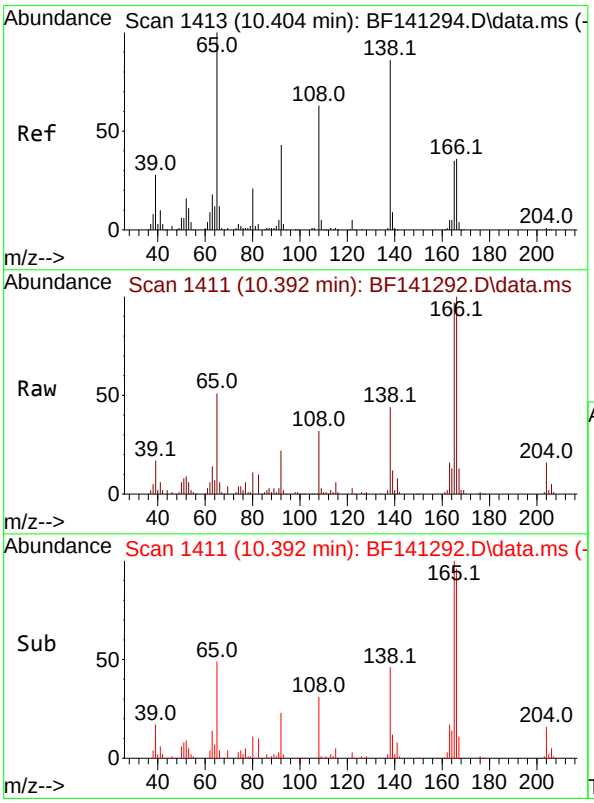
Ion	Ratio	Lower	Upper
204	100		
206	31.9	25.9	38.9
141	61.8	49.5	74.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

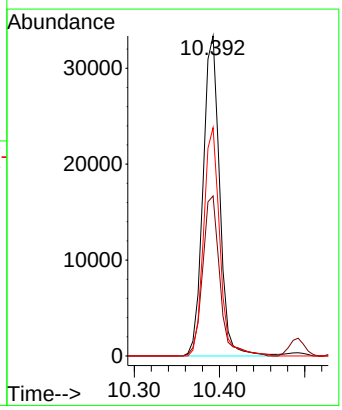


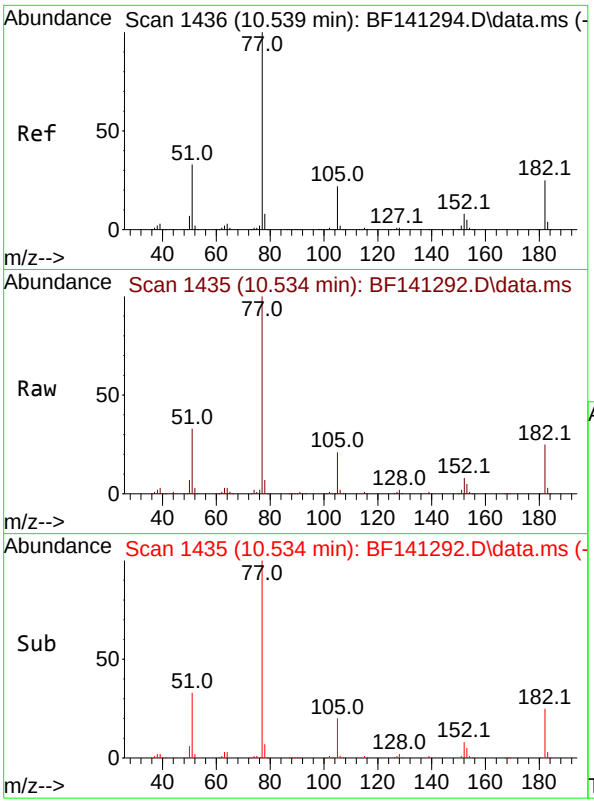


#62
4-Nitroaniline
Concen: 10.533 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:138 Resp: 45222

Ion	Ratio	Lower	Upper
138	100		
92	50.0	30.1	70.1
108	71.3	53.1	93.1

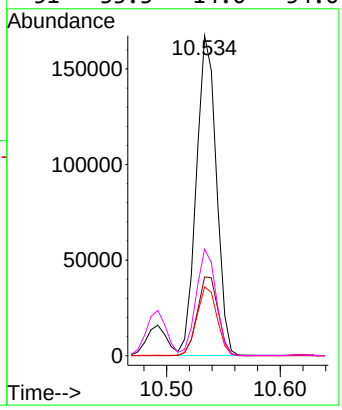




#63
Azobenzene
Concen: 10.839 ng
RT: 10.534 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 77 Resp: 20430

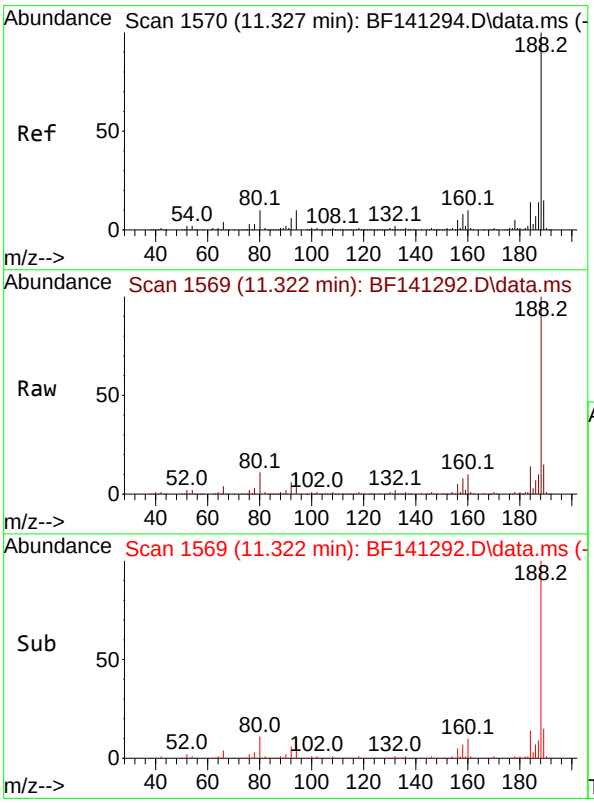
Ion	Ratio	Lower	Upper
77	100		
182	24.6	5.1	45.1
105	21.5	1.8	41.8
51	33.3	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

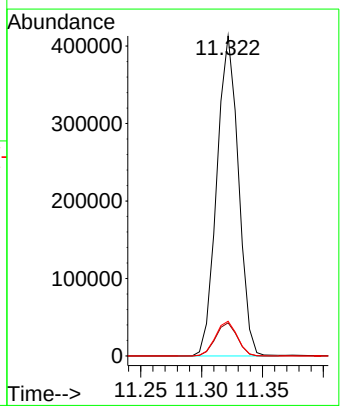
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

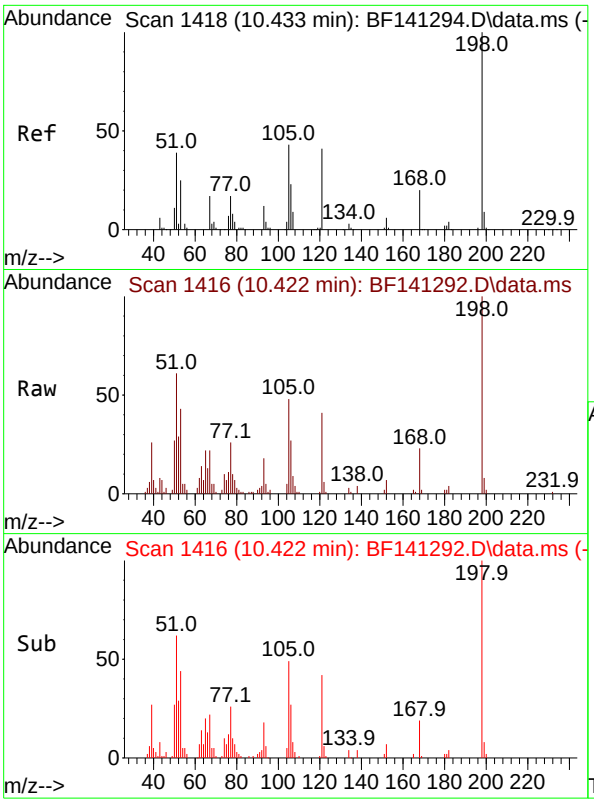


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:188 Resp: 510795

Ion	Ratio	Lower	Upper
188	100		
94	10.3	7.8	11.6
80	10.9	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 8.831 ng
RT: 10.422 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

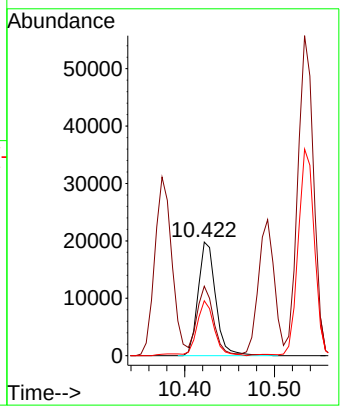
Tgt Ion:198 Resp: 2693

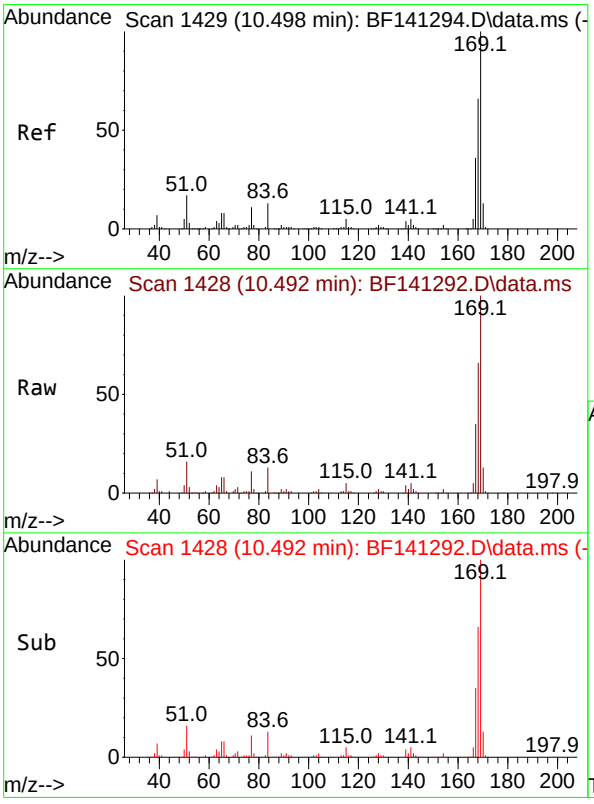
Ion	Ratio	Lower	Upper
198	100		
51	61.2	33.4	73.4
105	48.3	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

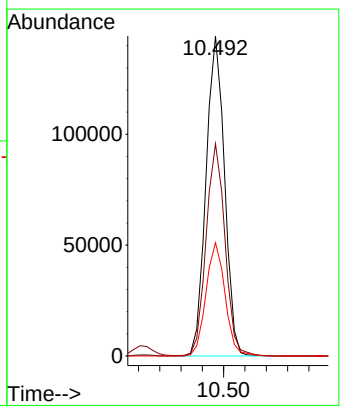


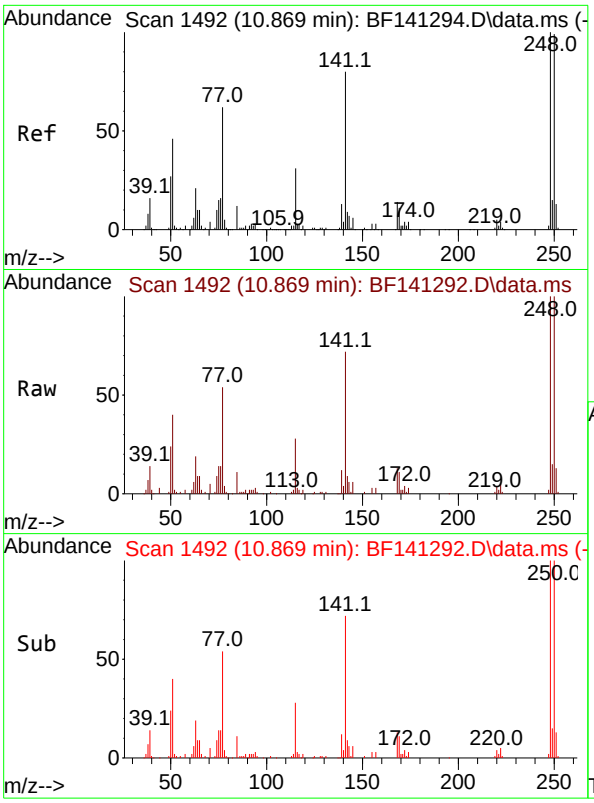


#66
n-Nitrosodiphenylamine
Concen: 10.544 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:169 Resp: 174617

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.4
167	35.4	28.8	43.2

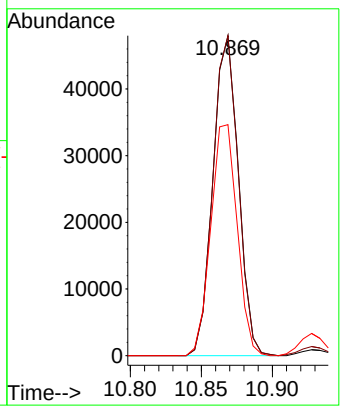




#67
4-Bromophenyl-phenylether
Concen: 10.468 ng
RT: 10.869 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:248 Resp: 5977

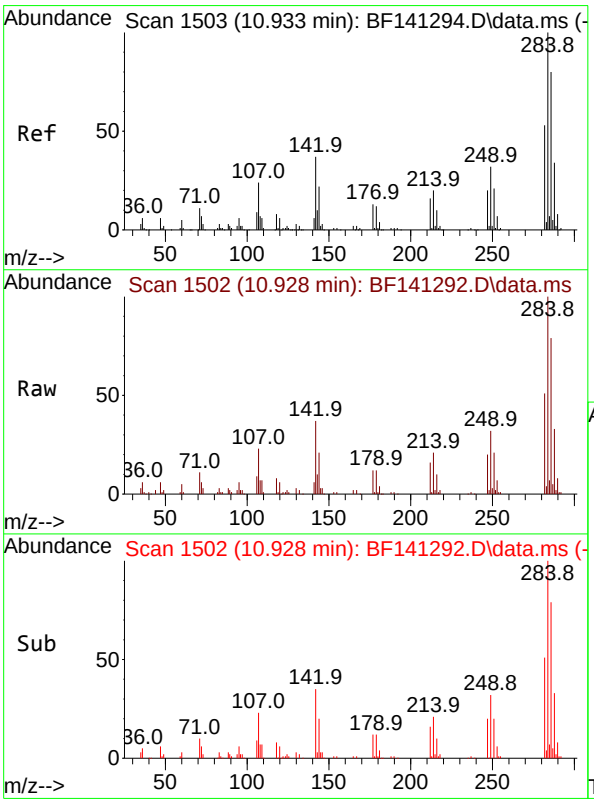
Ion	Ratio	Lower	Upper
248	100		
250	100.0	79.0	118.4
141	72.2	63.7	95.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

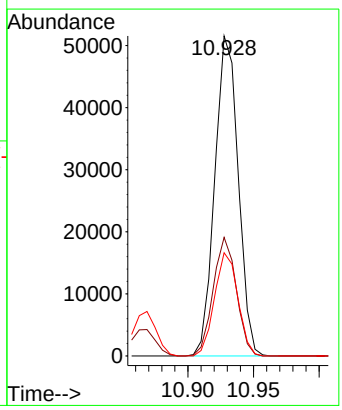
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

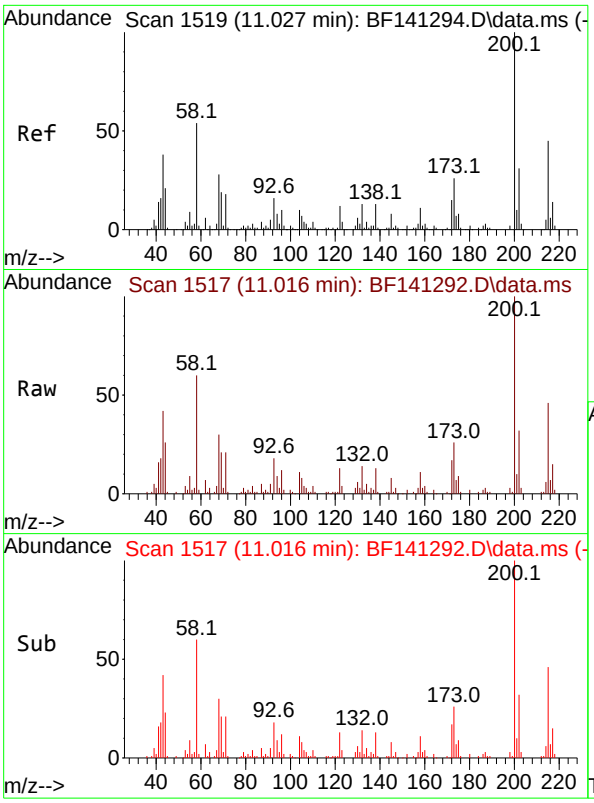


#68
Hexachlorobenzene
Concen: 10.551 ng
RT: 10.928 min Scan# 1502
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:284 Resp: 63908

Ion	Ratio	Lower	Upper
284	100		
142	37.0	29.5	44.3
249	32.2	25.4	38.2





#69
Atrazine
Concen: 9.295 ng
RT: 11.016 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

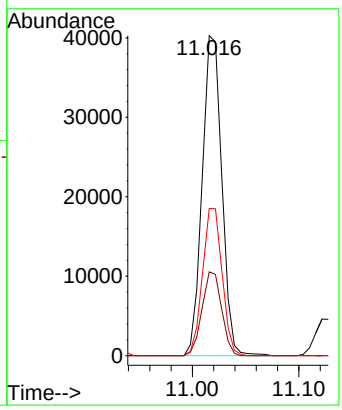
Instrument :
BNA_F
ClientSampleId :
SSTDICC010

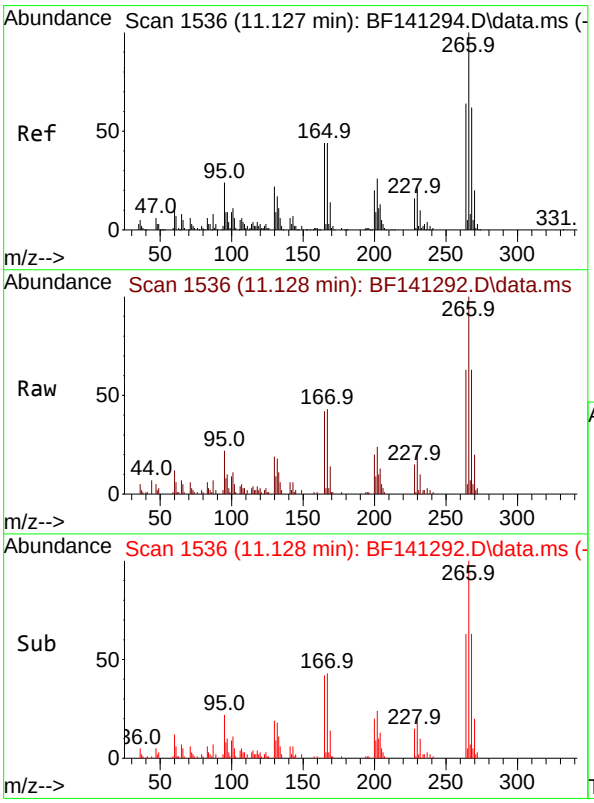
Tgt Ion:200 Resp: 5163

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.9	45.9
215	46.0	25.2	65.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

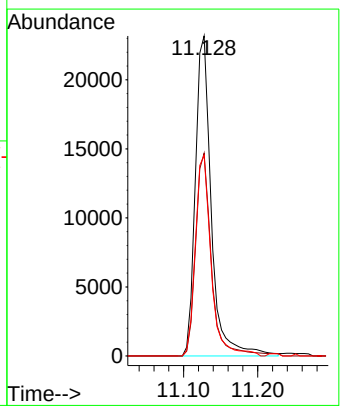


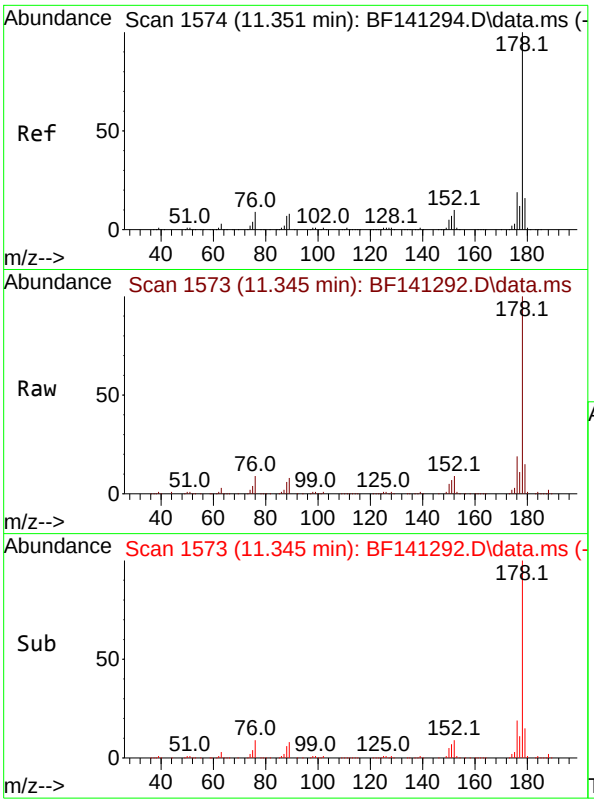


#70
Pentachlorophenol
Concen: 9.796 ng
RT: 11.128 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:266 Resp: 34788

Ion	Ratio	Lower	Upper
266	100		
268	63.4	49.9	74.9
264	62.7	51.0	76.4

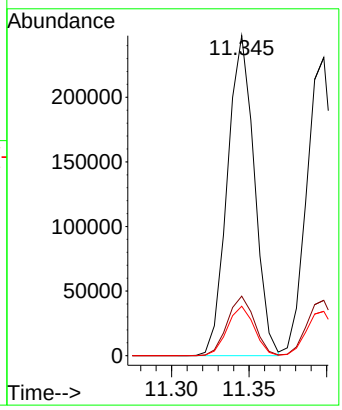




#71
Phenanthrene
Concen: 10.893 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:178 Resp: 29889

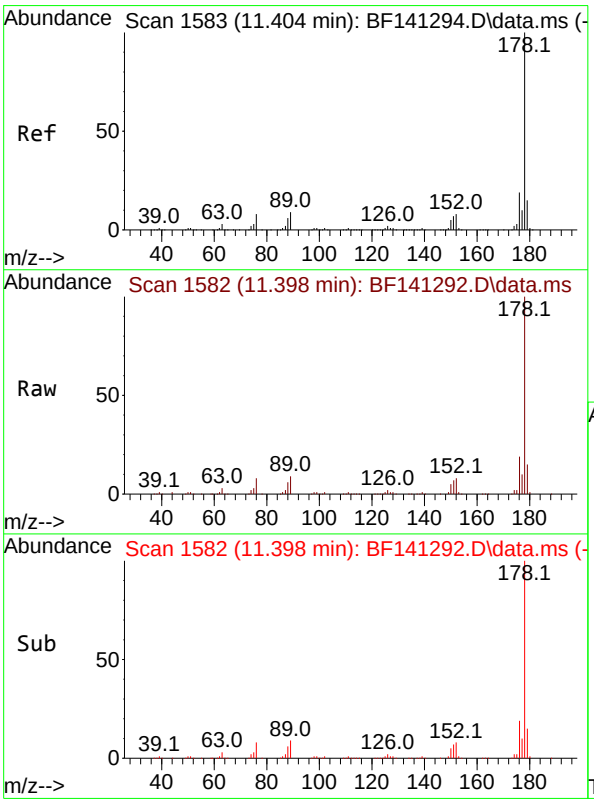
Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.3	22.9
179	15.4	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

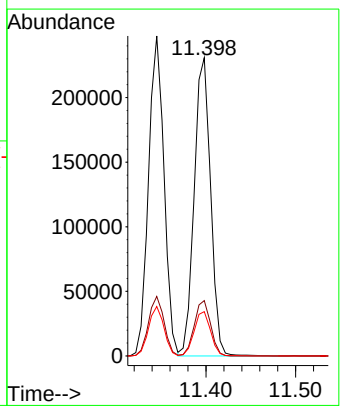
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

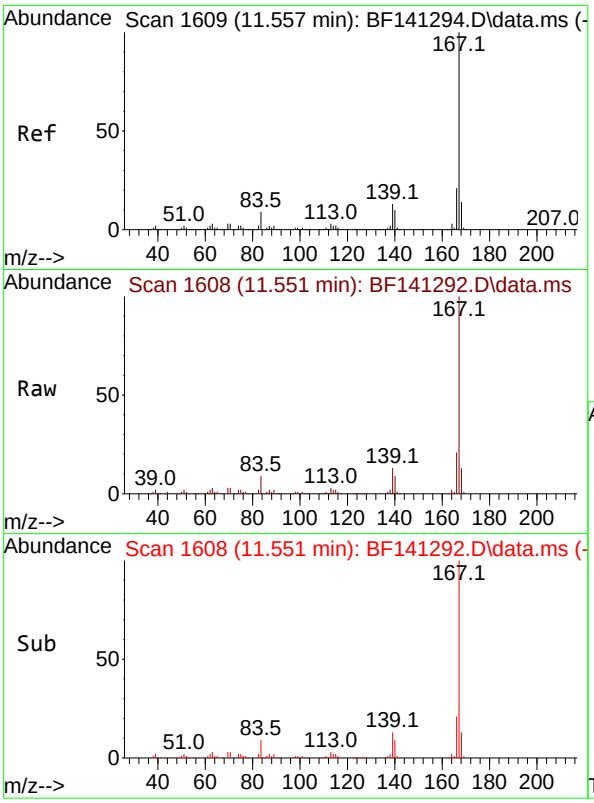


#72
Anthracene
Concen: 10.940 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:178 Resp: 292813

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	14.9	12.3	18.5

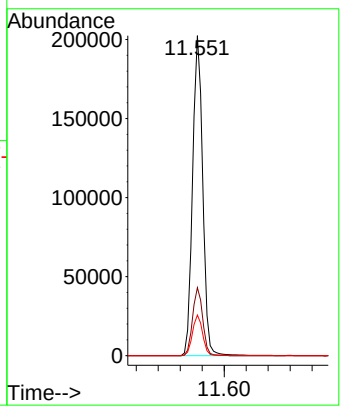




#73
Carbazole
Concen: 10.919 ng
RT: 11.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:167 Resp: 25885

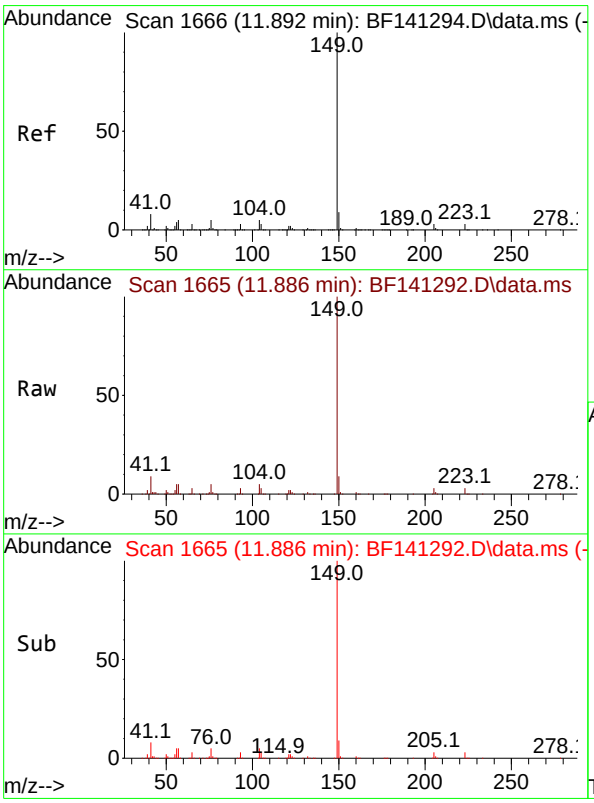
Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.6
139	12.7	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

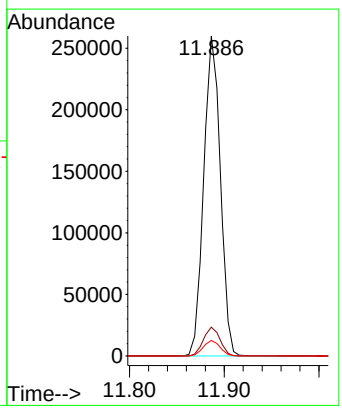
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

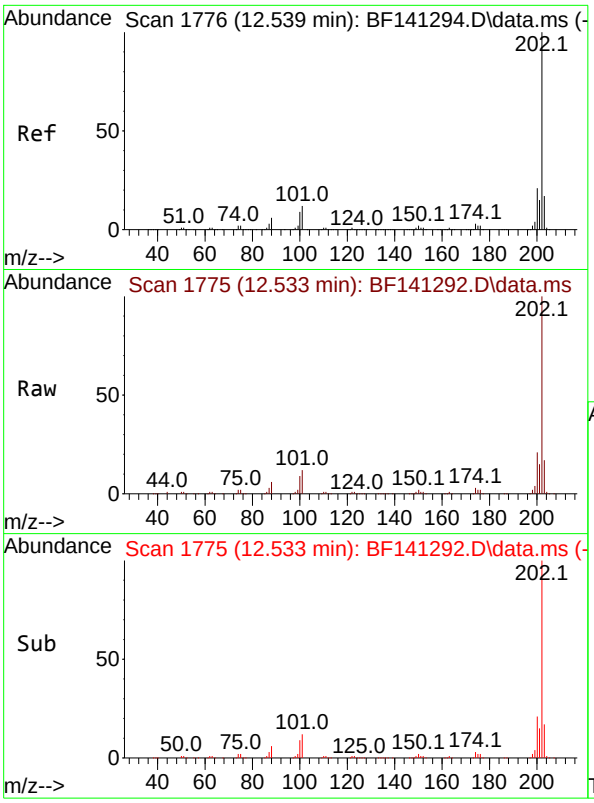


#74
Di-n-butylphthalate
Concen: 11.070 ng
RT: 11.886 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:149 Resp: 316336

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.4	11.2
104	4.9	3.9	5.9





#75
Fluoranthene
Concen: 11.462 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

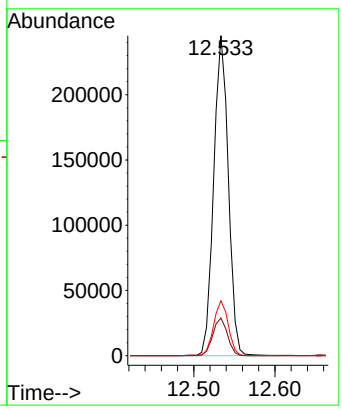
Tgt Ion:202 Resp: 30696

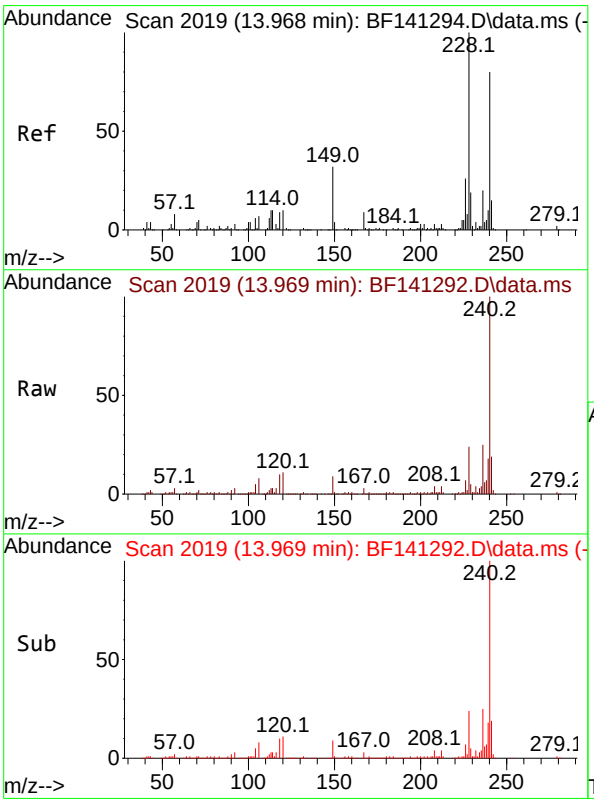
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.7
203	17.1	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

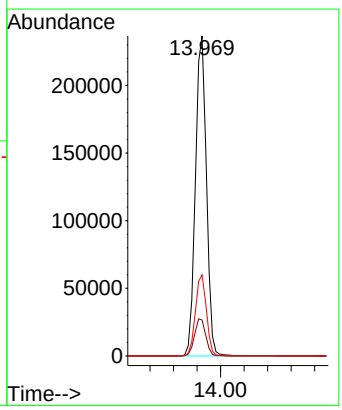


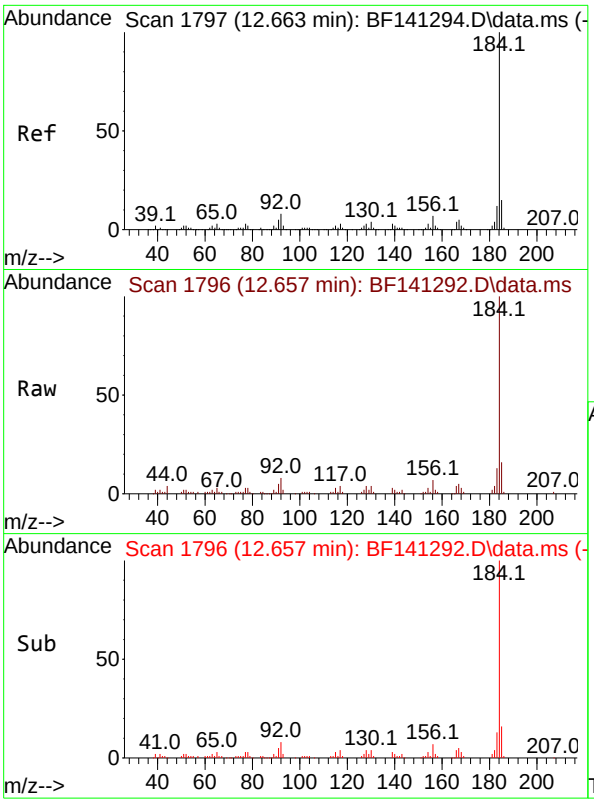


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:240 Resp: 308114

Ion	Ratio	Lower	Upper
240	100		
120	11.2	10.0	15.0
236	25.4	19.7	29.5

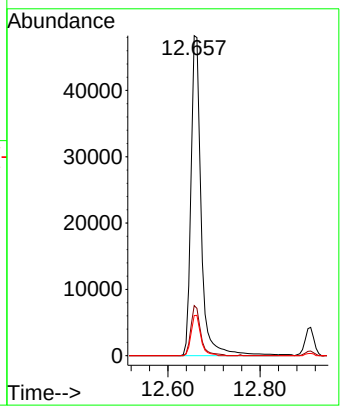




#77
Benzidine
Concen: 7.890 ng
RT: 12.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:184 Resp: 7391

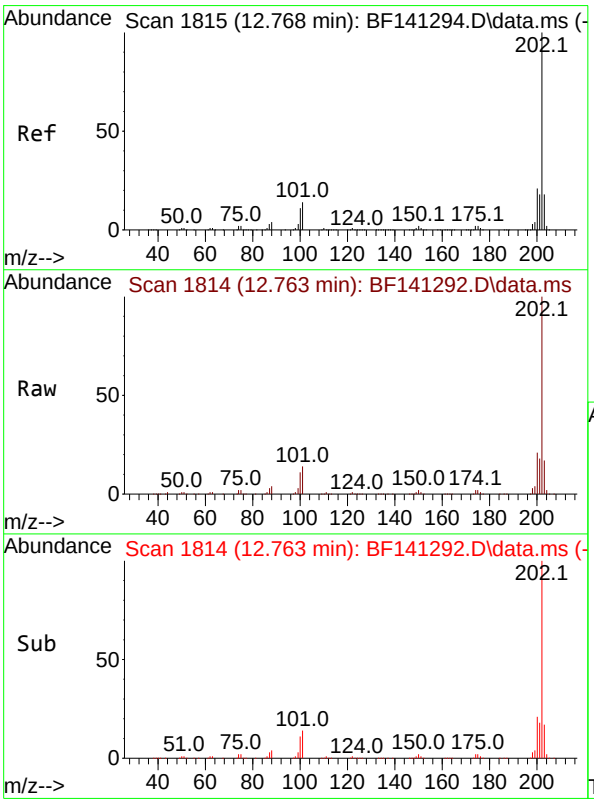
Ion	Ratio	Lower	Upper
184	100		
185	15.6	11.9	17.9
183	12.6	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

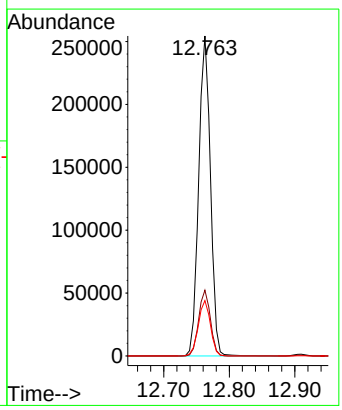
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

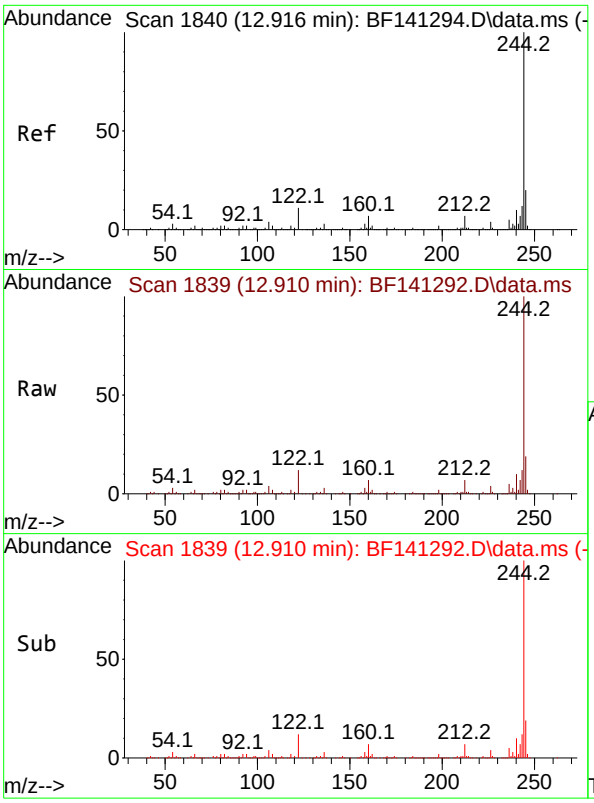


#78
Pyrene
Concen: 10.681 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:202 Resp: 317744

Ion	Ratio	Lower	Upper
202	100		
200	20.5	17.0	25.4
203	17.3	14.3	21.5

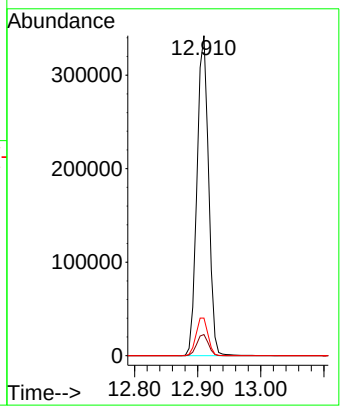




#79
Terphenyl-d14
Concen: 21.713 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:244 Resp: 43478

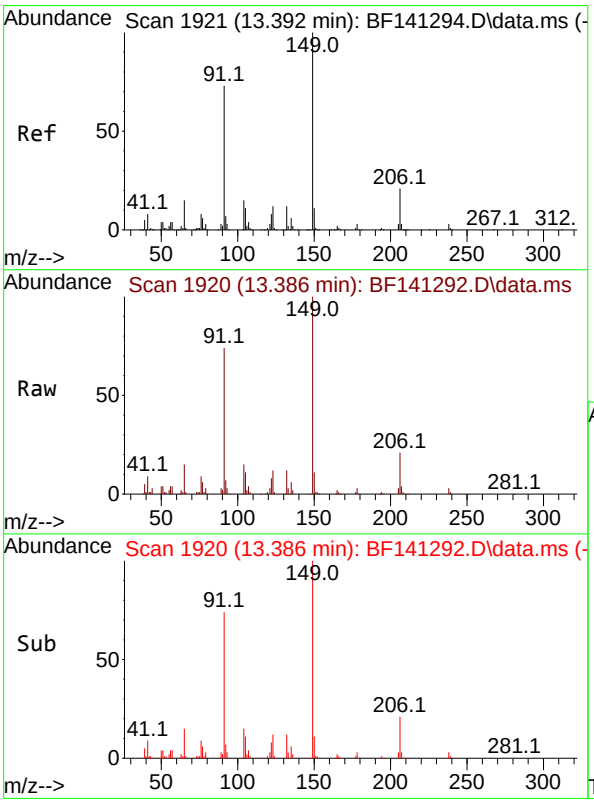
Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	11.7	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

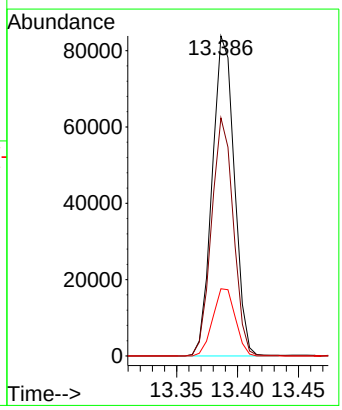
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

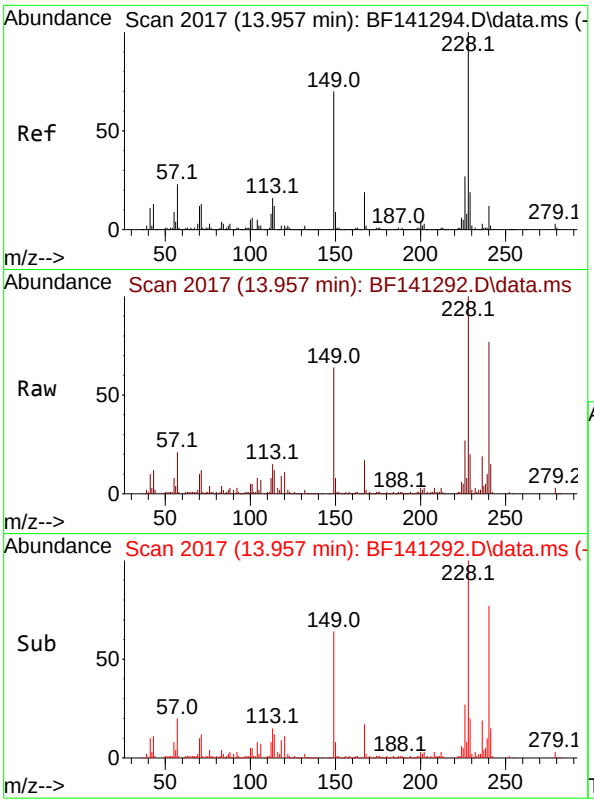


#80
Butylbenzylphthalate
Concen: 10.349 ng
RT: 13.386 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:149 Resp: 106335

Ion	Ratio	Lower	Upper
149	100		
91	74.4	58.6	87.8
206	21.0	16.7	25.1

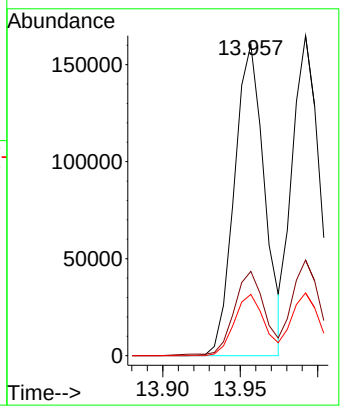




#81
Benzo(a)anthracene
Concen: 10.289 ng
RT: 13.957 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:228 Resp: 21729

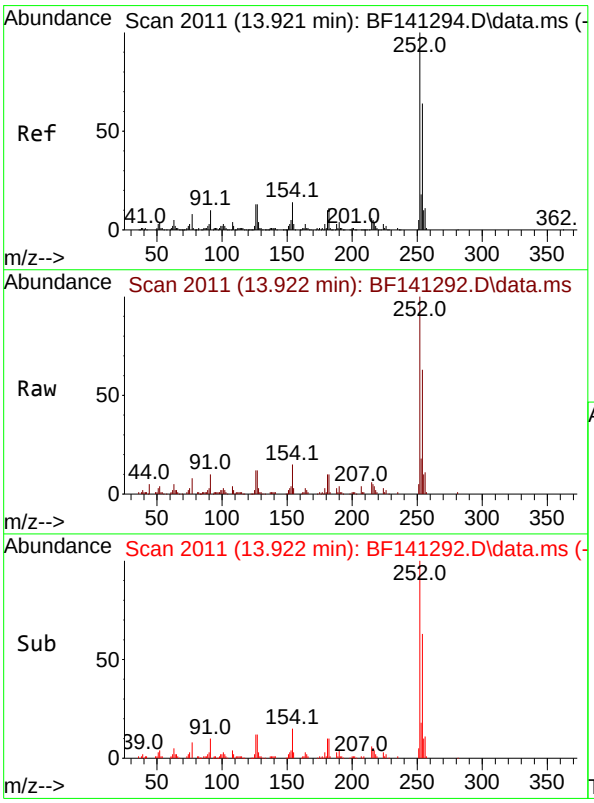
Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.2
229	19.7	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

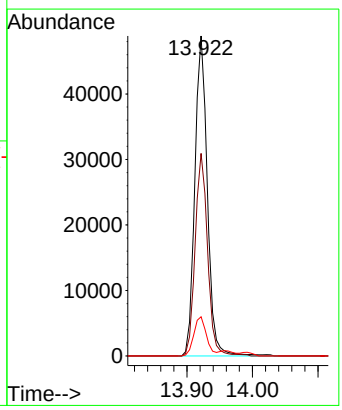
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

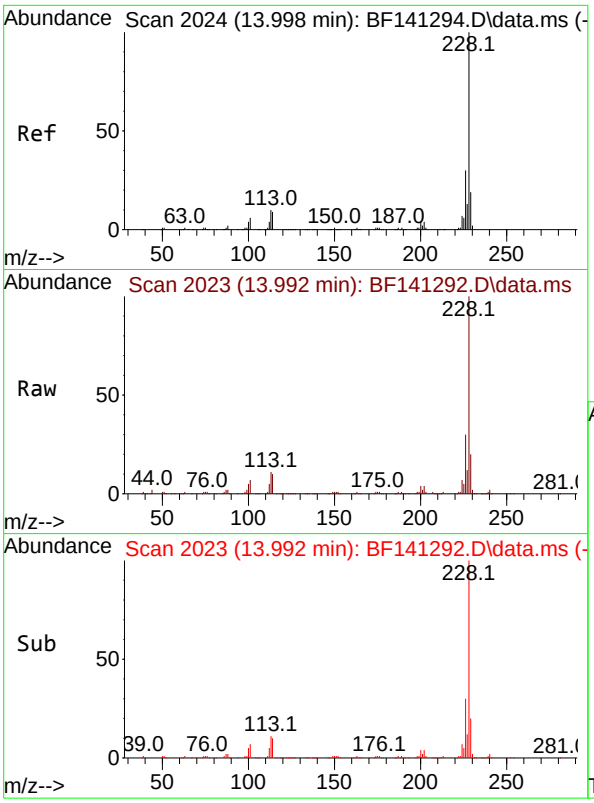


#82
3,3'-Dichlorobenzidine
Concen: 9.833 ng
RT: 13.922 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:252 Resp: 65021

Ion	Ratio	Lower	Upper
252	100		
254	63.3	51.3	76.9
126	12.2	10.0	15.0

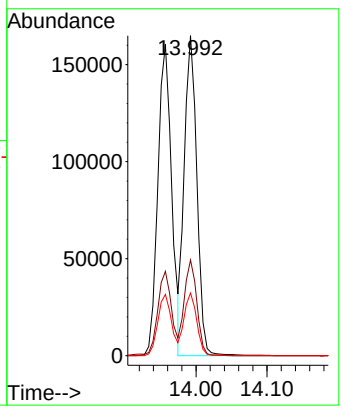




#83
Chrysene
Concen: 10.421 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:228 Resp: 20408

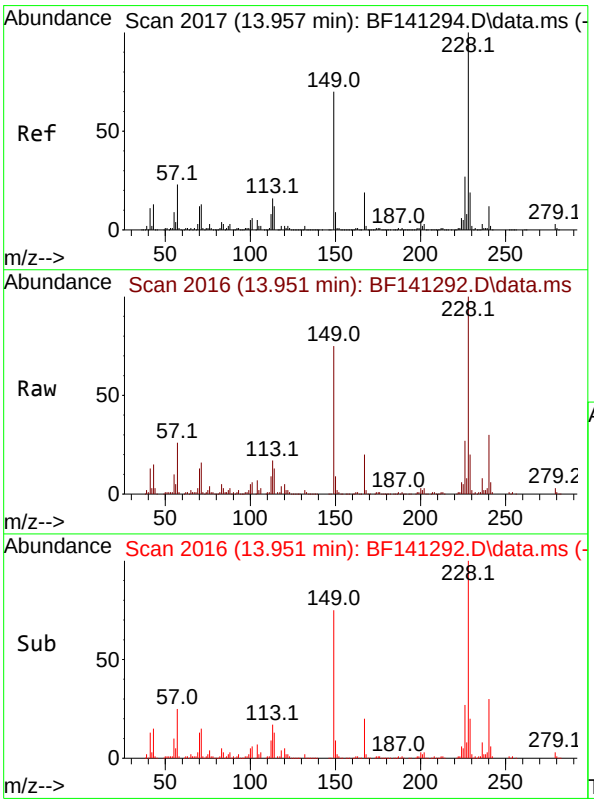
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.6	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

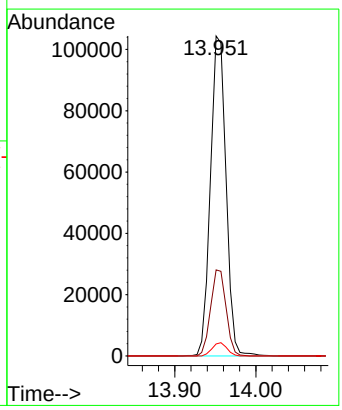
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

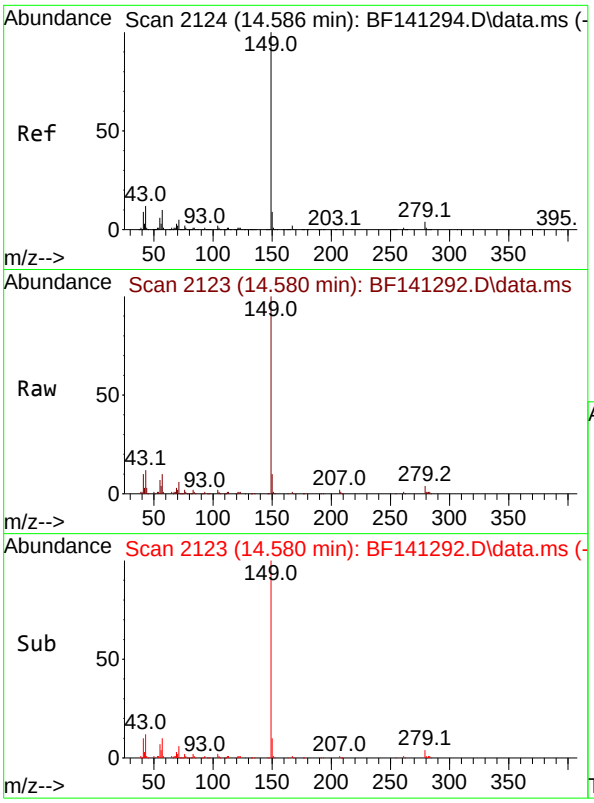


#84
Bis(2-ethylhexyl)phthalate
Concen: 10.789 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:149 Resp: 139099

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	3.8	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 9.676 ng
RT: 14.580 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

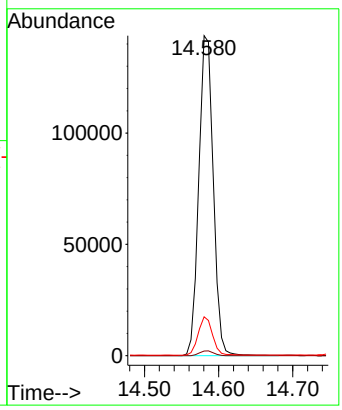
Tgt Ion:149 Resp: 19512

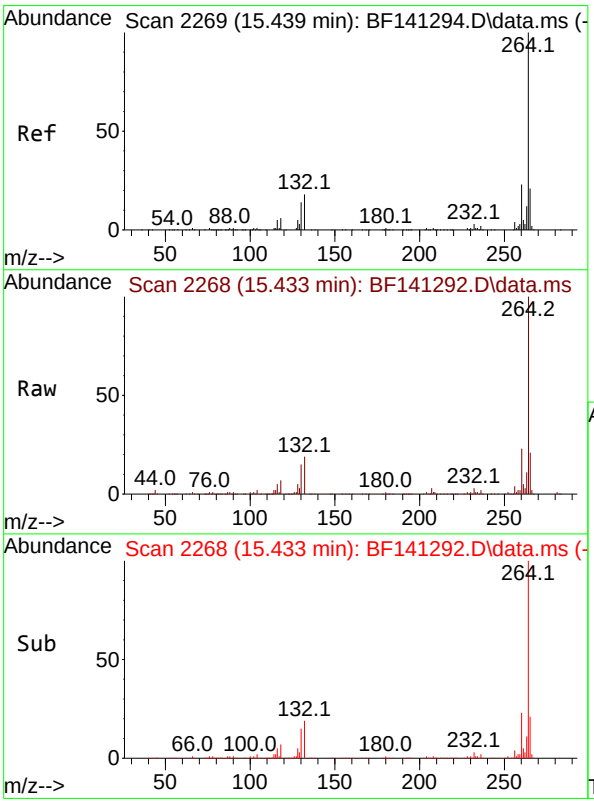
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	11.8	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

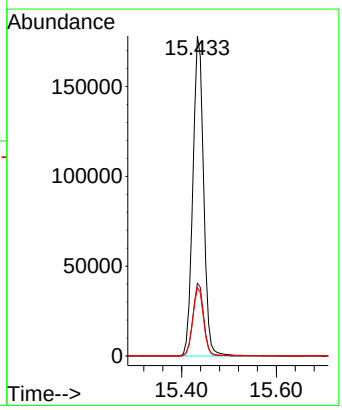


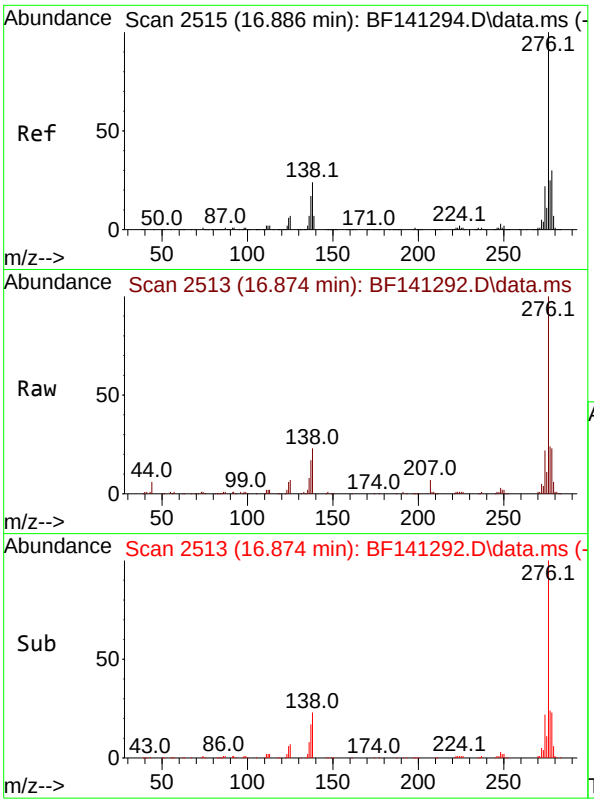


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:264 Resp: 280028

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	27.8
265	21.3	16.7	25.1

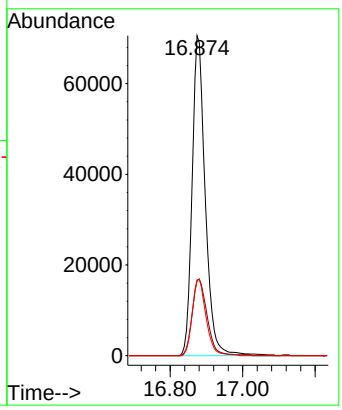




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.708 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:276 Resp: 17755

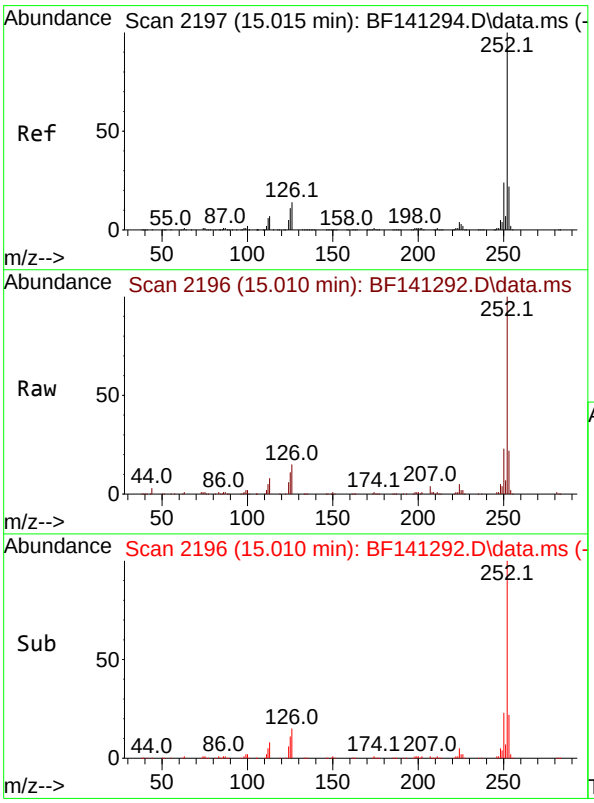
Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.7	32.5
277	25.1	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

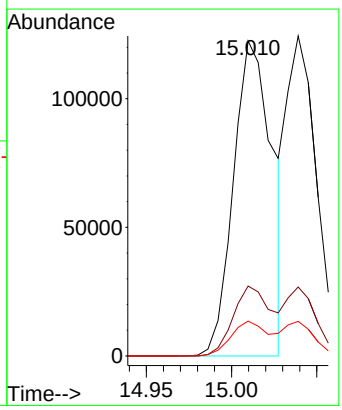
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

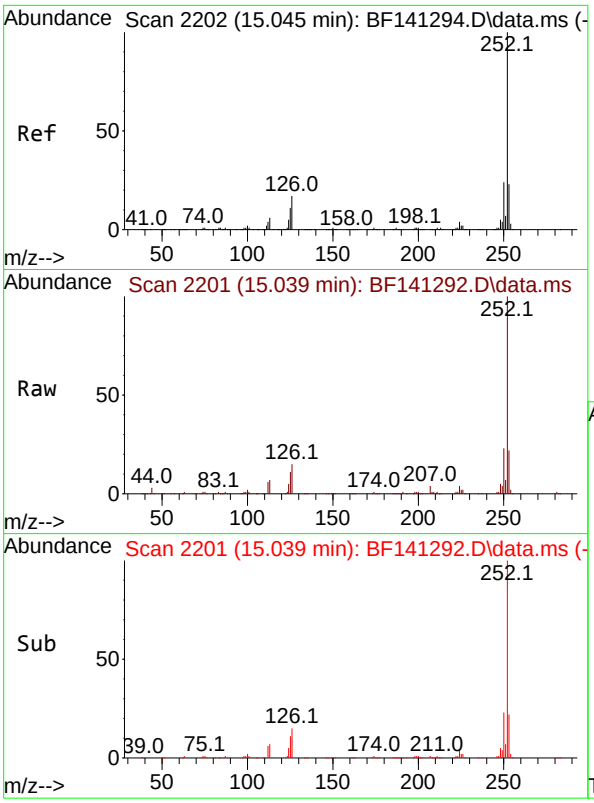


#88
Benzo(b)fluoranthene
Concen: 11.130 ng
RT: 15.010 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:252 Resp: 193558

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	11.1	8.6	12.8

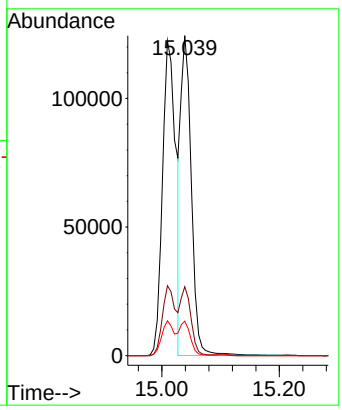




#89
Benzo(k)fluoranthene
Concen: 10.012 ng
RT: 15.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:252 Resp: 15592

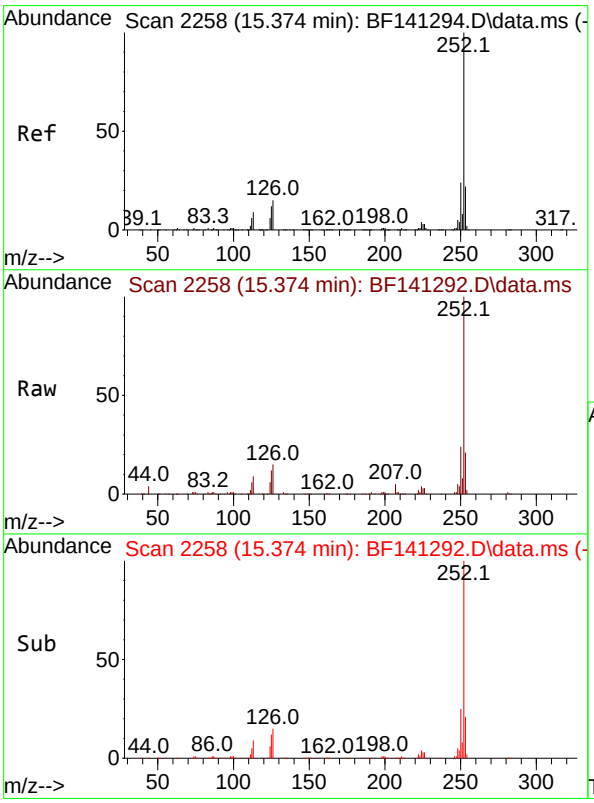
Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.6	26.4
125	10.8	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

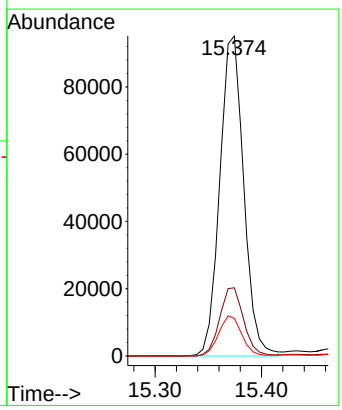
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

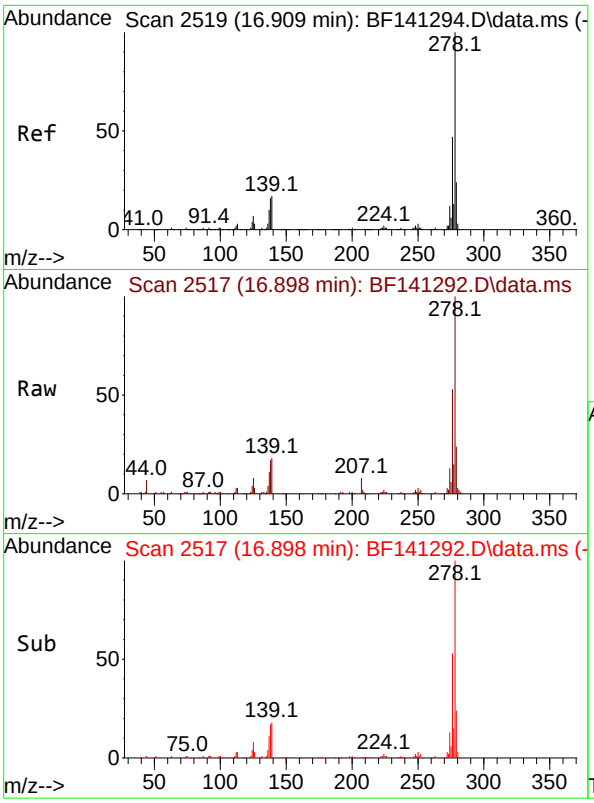


#90
Benzo(a)pyrene
Concen: 9.972 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:252 Resp: 148214

Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.2	25.8
125	11.7	9.4	14.2

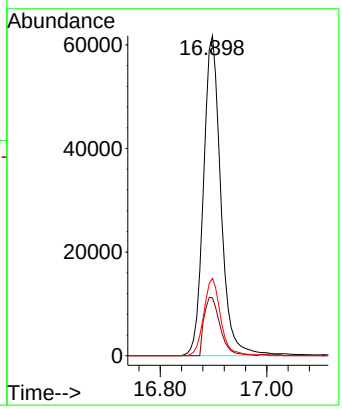




#91
Dibenzo(a,h)anthracene
Concen: 9.559 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:278 Resp: 14014

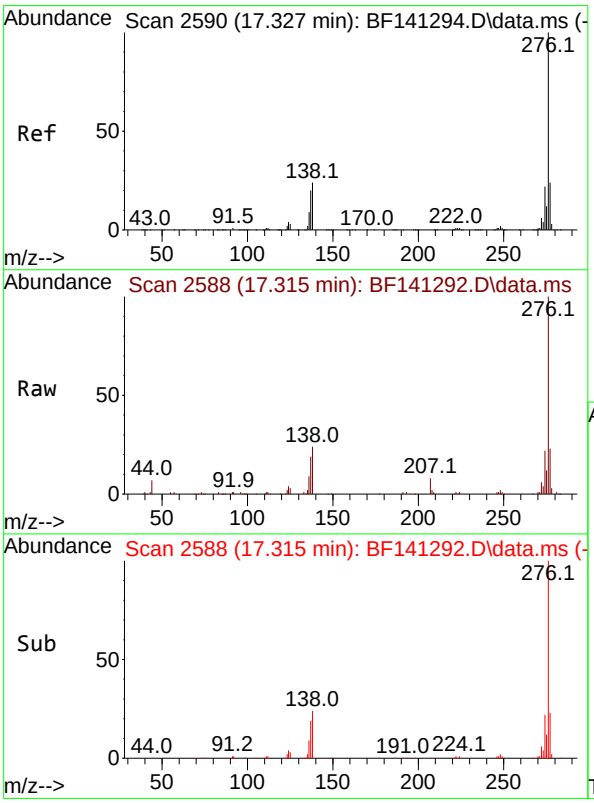
Ion	Ratio	Lower	Upper
278	100		
139	18.1	13.9	20.9
279	24.2	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

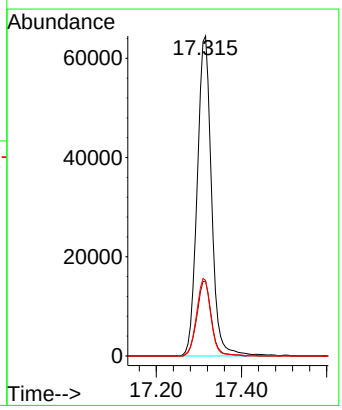
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 9.756 ng
RT: 17.315 min Scan# 2588
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:276 Resp: 150453

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.2	28.8
138	23.6	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141293.D
Acq On : 29 Jan 2025 15:17
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	136491	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	532862	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	293084	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	511320	20.000	ng	0.00
76) Chrysene-d12	13.974	240	314234	20.000	ng	0.00
86) Perylene-d12	15.457	264	289582	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	382610	43.351	ng	0.00
7) Phenol-d6	6.422	99	475876	42.305	ng	0.00
23) Nitrobenzene-d5	7.357	82	432160	42.912	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	116167	43.498	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	819371	43.127	ng	0.00
79) Terphenyl-d14	12.916	244	860956	42.159	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.481	88	81467	20.794	ng	98
3) Pyridine	3.210	79	197852	21.116	ng	99
4) n-Nitrosodimethylamine	3.152	42	112451	20.957	ng	98
6) Aniline	6.457	93	210459	22.385	ng	99
8) 2-Chlorophenol	6.581	128	203008	21.418	ng	96
9) Benzaldehyde	6.345	77	150675	23.065	ng	100
10) Phenol	6.434	94	257179	21.611	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	194572	21.260	ng	98
12) 1,3-Dichlorobenzene	6.739	146	224880	21.512	ng	99
13) 1,4-Dichlorobenzene	6.816	146	226376	21.503	ng	99
14) 1,2-Dichlorobenzene	6.969	146	213616	21.714	ng	99
15) Benzyl Alcohol	6.934	79	166008	21.602	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.075	45	340590	21.420	ng	100
17) 2-Methylphenol	7.045	107	165188	21.525	ng	99
18) Hexachloroethane	7.310	117	83193	21.359	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	140874	21.058	ng	99
20) 3+4-Methylphenols	7.198	107	205070	21.734	ng	96
22) Acetophenone	7.204	105	275680	21.825	ng	100
24) Nitrobenzene	7.381	77	224061	21.451	ng	98
25) Isophorone	7.616	82	369998	21.259	ng	99
26) 2-Nitrophenol	7.698	139	106287	21.725	ng	98
27) 2,4-Dimethylphenol	7.734	122	132748m	21.233	ng	
28) bis(2-Chloroethoxy)met...	7.828	93	237369	21.403	ng	98
29) 2,4-Dichlorophenol	7.934	162	166153	21.750	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	188468	21.511	ng	99
31) Naphthalene	8.104	128	607622	21.681	ng	100
32) Benzoic acid	7.816	122	126734	22.321	ng	99
33) 4-Chloroaniline	8.151	127	208531	22.151	ng	99
34) Hexachlorobutadiene	8.222	225	111274	21.699	ng	97
35) Caprolactam	8.498	113	54280	21.968	ng	99
36) 4-Chloro-3-methylphenol	8.628	107	177981	21.708	ng	99
37) 2-Methylnaphthalene	8.792	142	386035	21.630	ng	100
38) 1-Methylnaphthalene	8.892	142	378878	21.671	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	176736	21.209	ng	99
41) Hexachlorocyclopentadiene	8.945	237	51112	20.438	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	114390	21.029	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141293.D
Acq On : 29 Jan 2025 15:17
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	125725	21.245	ng		98
46) 1,1'-Biphenyl	9.257	154	483479	21.145	ng		100
47) 2-Chloronaphthalene	9.281	162	377946	21.282	ng		99
48) 2-Nitroaniline	9.375	65	119359	21.310	ng		98
49) Acenaphthylene	9.698	152	531957	21.328	ng		99
50) Dimethylphthalate	9.557	163	423377	21.542	ng		100
51) 2,6-Dinitrotoluene	9.622	165	97622	21.345	ng		96
52) Acenaphthene	9.869	154	378511	21.328	ng		99
53) 3-Nitroaniline	9.786	138	100085	22.123	ng		98
54) 2,4-Dinitrophenol	9.892	184	40003	18.557	ng	#	86
55) Dibenzofuran	10.039	168	514223	21.665	ng		100
56) 4-Nitrophenol	9.945	139	73425	22.607	ng		97
57) 2,4-Dinitrotoluene	10.022	165	129942	22.027	ng		98
58) Fluorene	10.386	166	396520	21.488	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.157	232	99841	21.354	ng		99
60) Diethylphthalate	10.257	149	413889	21.745	ng		99
61) 4-Chlorophenyl-phenyle...	10.380	204	193134	21.446	ng		99
62) 4-Nitroaniline	10.398	138	96692	22.250	ng		98
63) Azobenzene	10.539	77	407492	21.358	ng		99
65) 4,6-Dinitro-2-methylph...	10.427	198	62572	20.492	ng		97
66) n-Nitrosodiphenylamine	10.498	169	344387	20.773	ng		100
67) 4-Bromophenyl-phenylether	10.869	248	119844	20.967	ng		98
68) Hexachlorobenzene	10.933	284	126823	20.917	ng		99
69) Atrazine	11.022	200	109133	19.627	ng		99
70) Pentachlorophenol	11.127	266	74508	20.958	ng		98
71) Phenanthrene	11.351	178	584027	21.262	ng		100
72) Anthracene	11.398	178	572743	21.377	ng		100
73) Carbazole	11.557	167	522100	22.000	ng		99
74) Di-n-butylphthalate	11.892	149	636521	22.251	ng		100
75) Fluoranthene	12.539	202	611492	22.808	ng		100
77) Benzidine	12.663	184	65963	6.904	ng		99
78) Pyrene	12.769	202	629228	20.739	ng		99
80) Butylbenzylphthalate	13.392	149	232095	22.149	ng		99
81) Benzo(a)anthracene	13.968	228	456535	21.197	ng		99
82) 3,3'-Dichlorobenzidine	13.927	252	134298	19.914	ng		99
83) Chrysene	14.004	228	421849	21.122	ng		99
84) Bis(2-ethylhexyl)phtha...	13.963	149	300546	22.857	ng		99
85) Di-n-octyl phthalate	14.604	149	451748	21.964	ng		100
87) Indeno(1,2,3-cd)pyrene	16.909	276	387089	20.466	ng		99
88) Benzo(b)fluoranthene	15.033	252	384557	21.383	ng		99
89) Benzo(k)fluoranthene	15.062	252	368801	22.900	ng		99
90) Benzo(a)pyrene	15.392	252	327630	21.317	ng		99
91) Dibenzo(a,h)anthracene	16.927	278	318776	21.026	ng		100
92) Benzo(g,h,i)perylene	17.345	276	329876	20.684	ng		100

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

ICAL Form

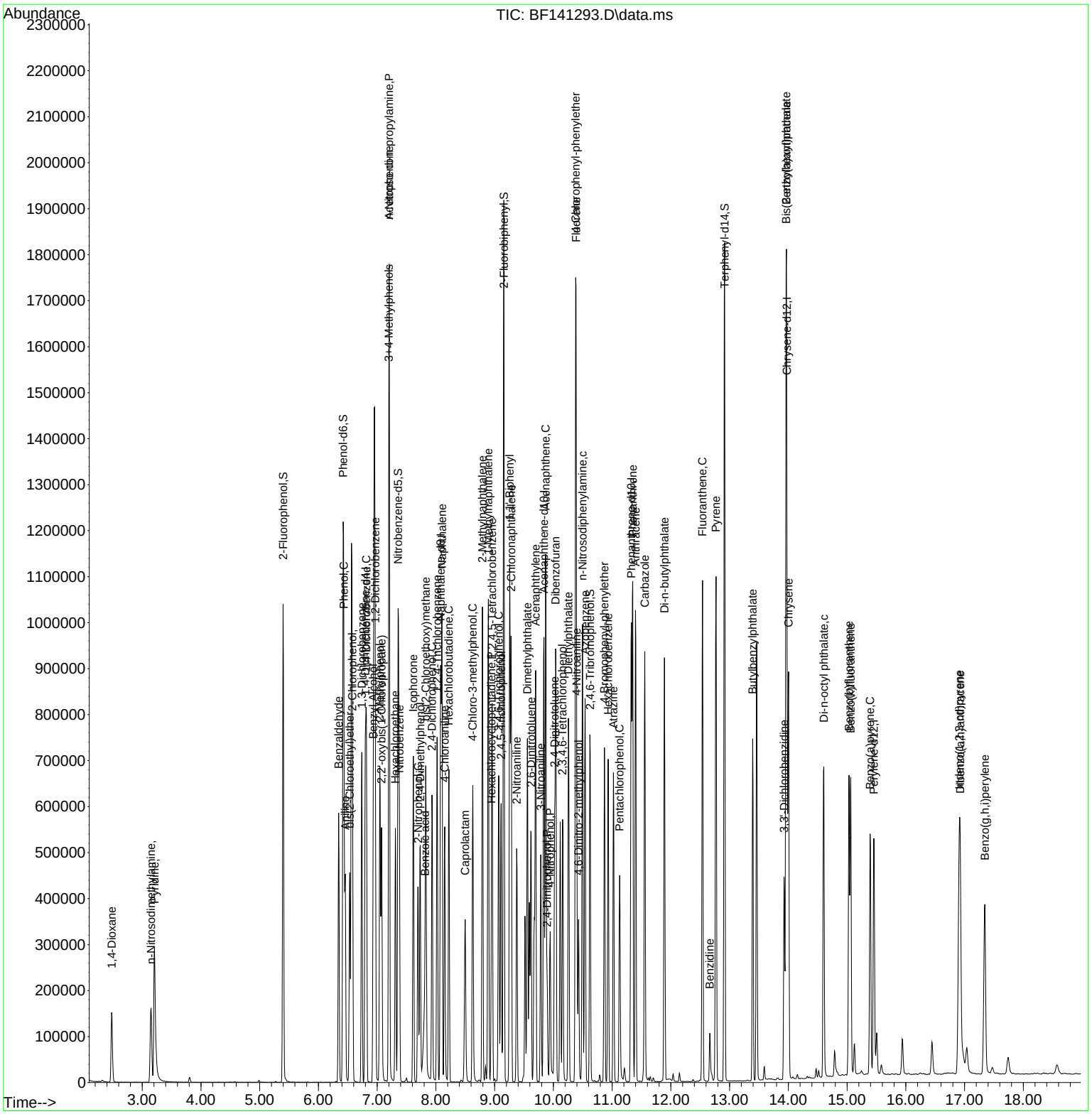
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141293.D
Acq On : 29 Jan 2025 15:17
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

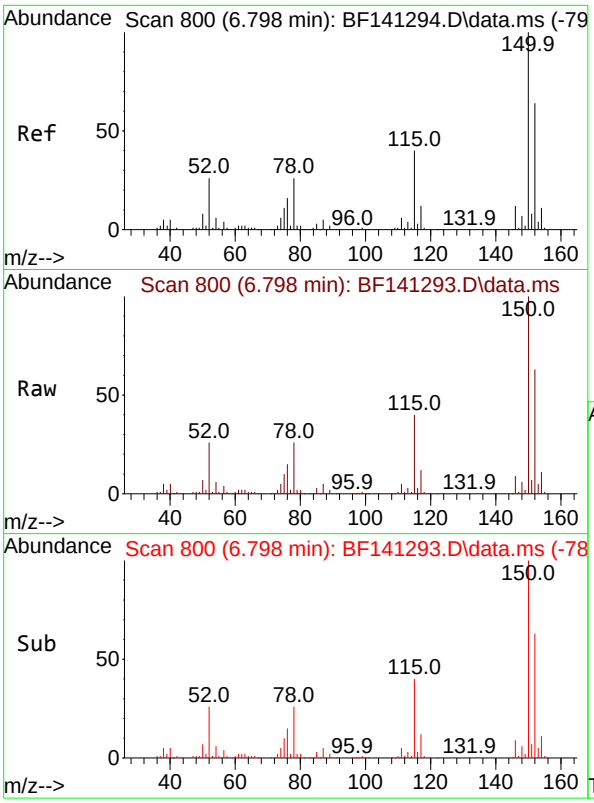
Quant Time: Jan 29 16:29:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

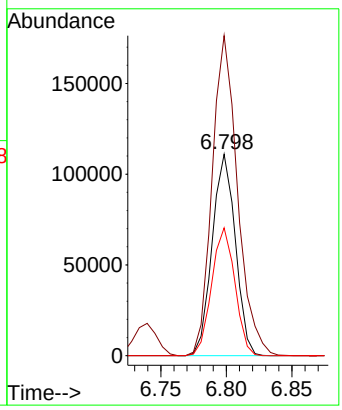




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:152 Resp: 13649

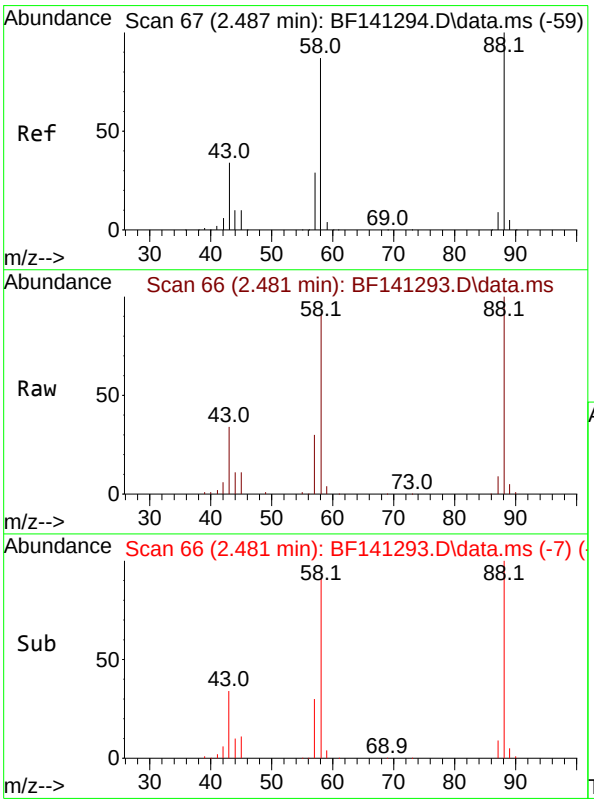
Ion	Ratio	Lower	Upper
152	100		
150	158.9	125.9	188.9
115	63.5	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

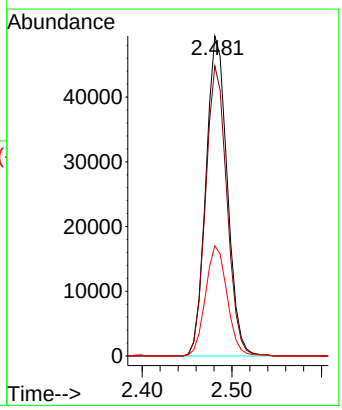
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

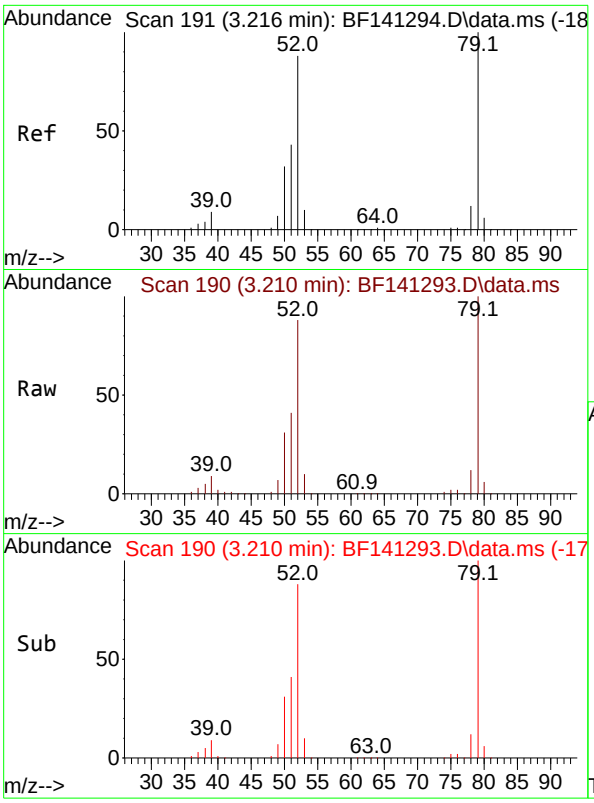


#2
1,4-Dioxane
Concen: 20.794 ng
RT: 2.481 min Scan# 66
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 88 Resp: 81467

Ion	Ratio	Lower	Upper
88	100		
58	90.4	70.2	105.4
43	35.0	27.6	41.4

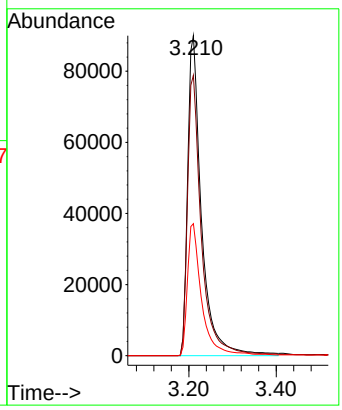




#3
Pyridine
Concen: 21.116 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 79 Resp: 19785

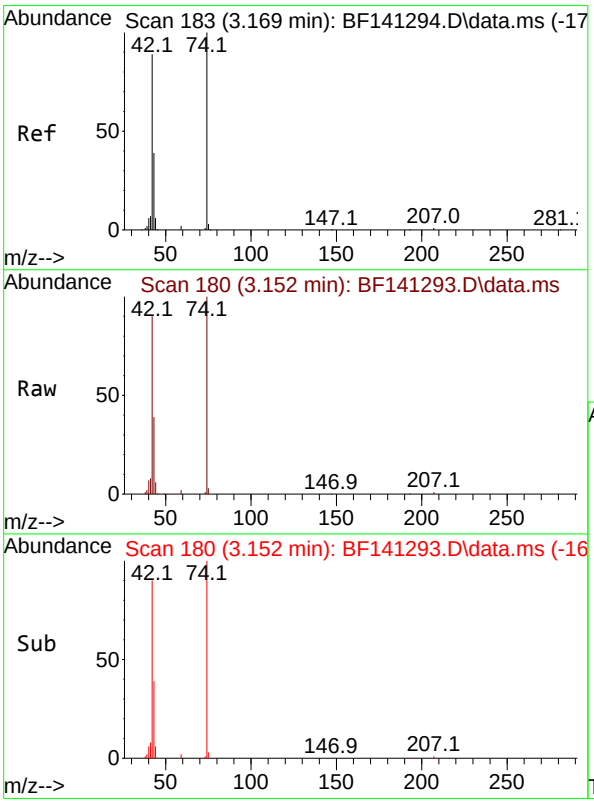
Ion	Ratio	Lower	Upper
79	100		
52	87.6	70.3	105.5
51	41.2	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

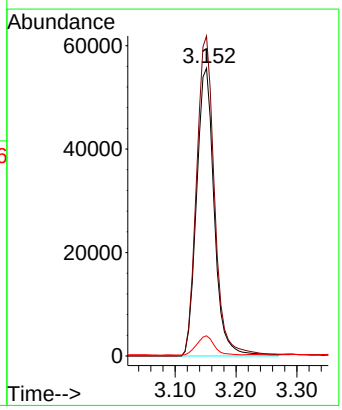
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

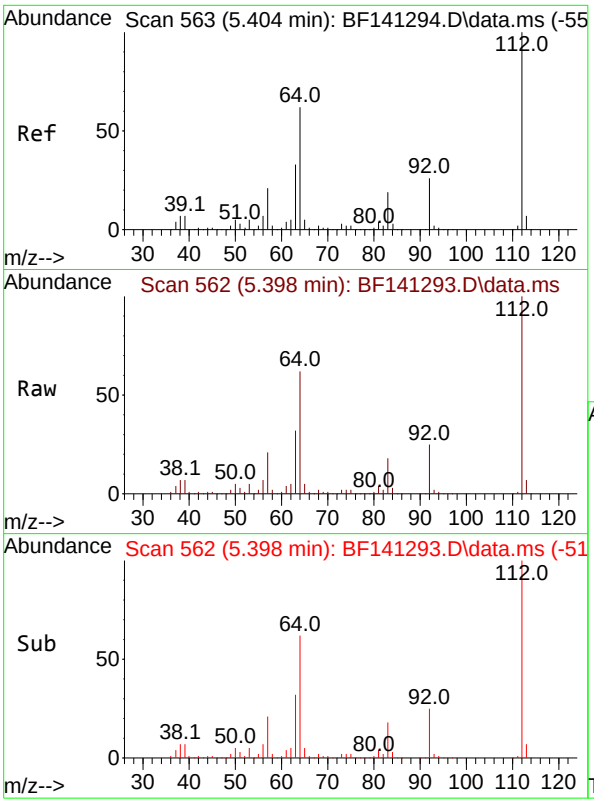


#4
n-Nitrosodimethylamine
Concen: 20.957 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 42 Resp: 112451

Ion	Ratio	Lower	Upper
42	100		
74	111.2	90.3	135.5
44	7.0	5.7	8.5

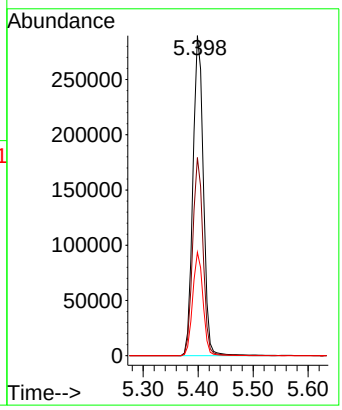




#5
2-Fluorophenol
Concen: 43.351 ng
RT: 5.398 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:112 Resp: 38261

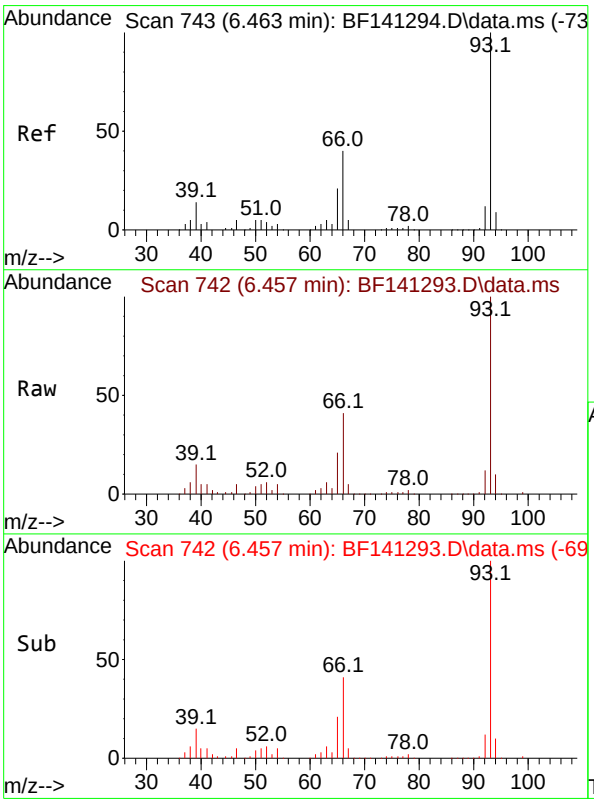
Ion	Ratio	Lower	Upper
112	100		
64	61.9	49.8	74.8
63	32.3	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

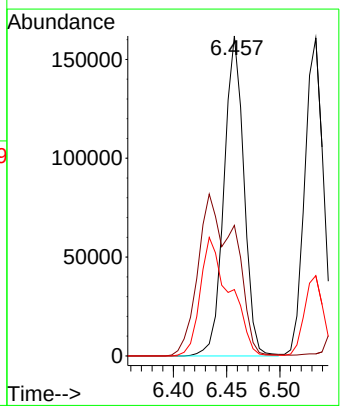
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

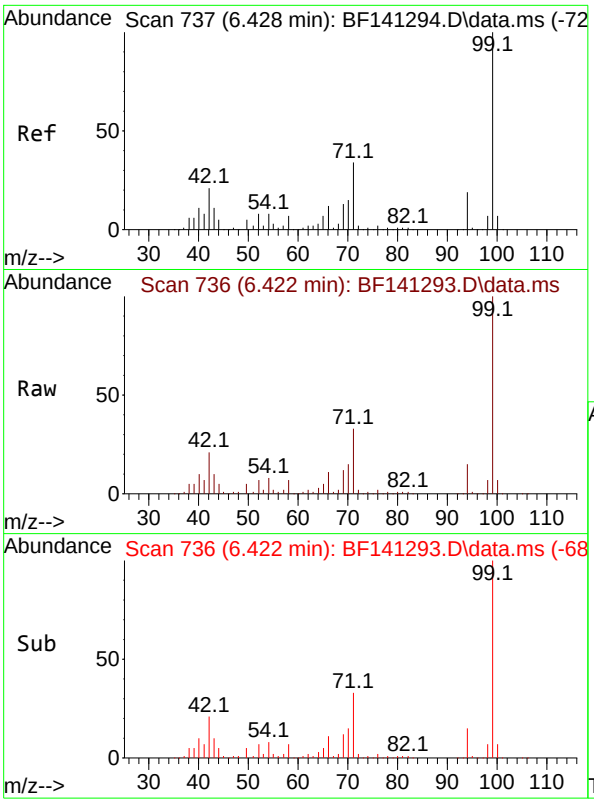


#6
Aniline
Concen: 22.385 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 93 Resp: 210459

Ion	Ratio	Lower	Upper
93	100		
66	40.8	32.5	48.7
65	20.7	17.0	25.6

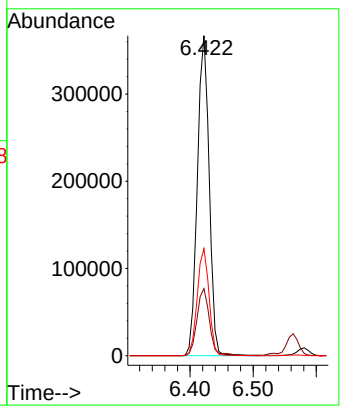




#7
Phenol-d6
Concen: 42.305 ng
RT: 6.422 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 99 Resp: 47587

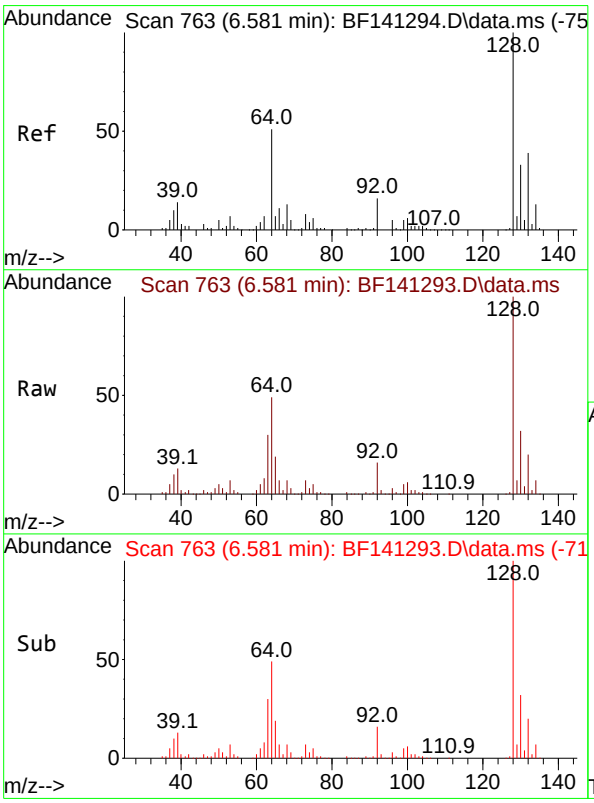
Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.1	25.7
71	33.5	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

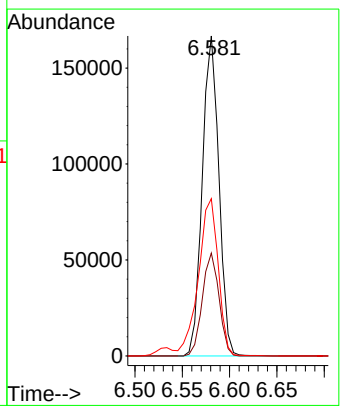
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

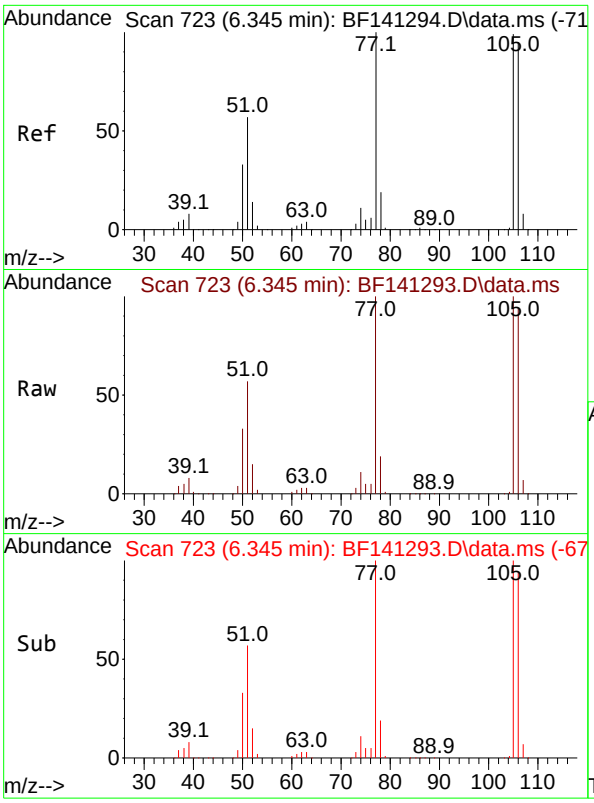


#8
2-Chlorophenol
Concen: 21.418 ng
RT: 6.581 min Scan# 763
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:128 Resp: 203008

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.5	52.5
64	49.1	32.9	72.9

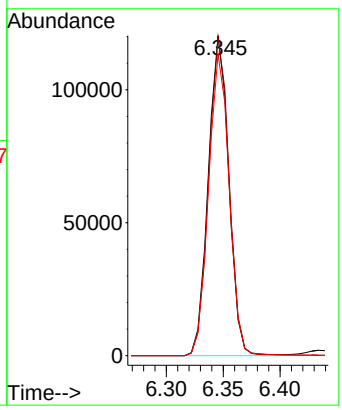




#9
Benzaldehyde
Concen: 23.065 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 77 Resp: 15067

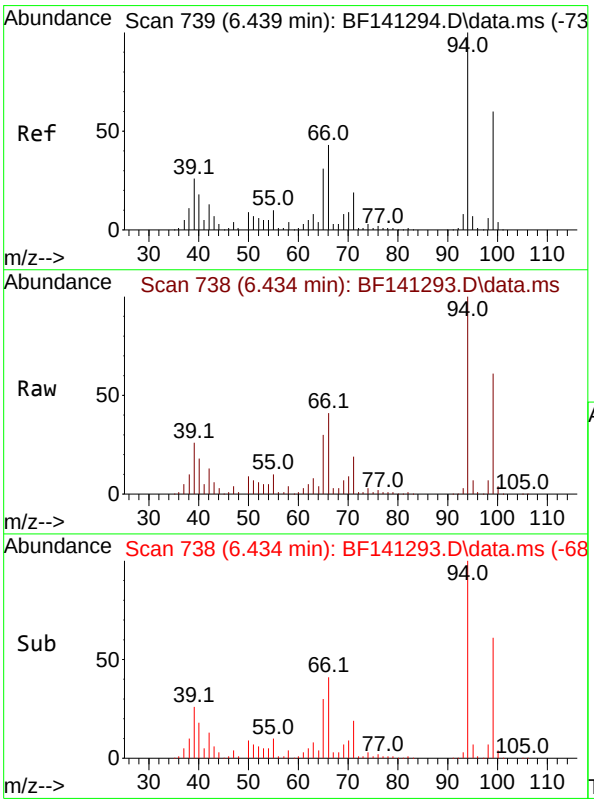
Ion	Ratio	Lower	Upper
77	100		
105	99.7	79.4	119.4
106	94.2	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

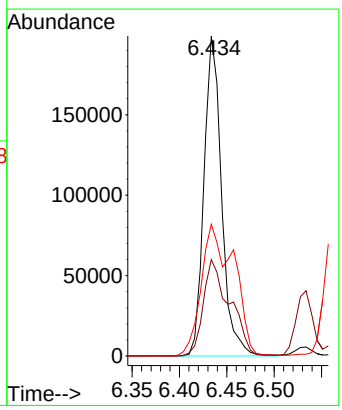
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

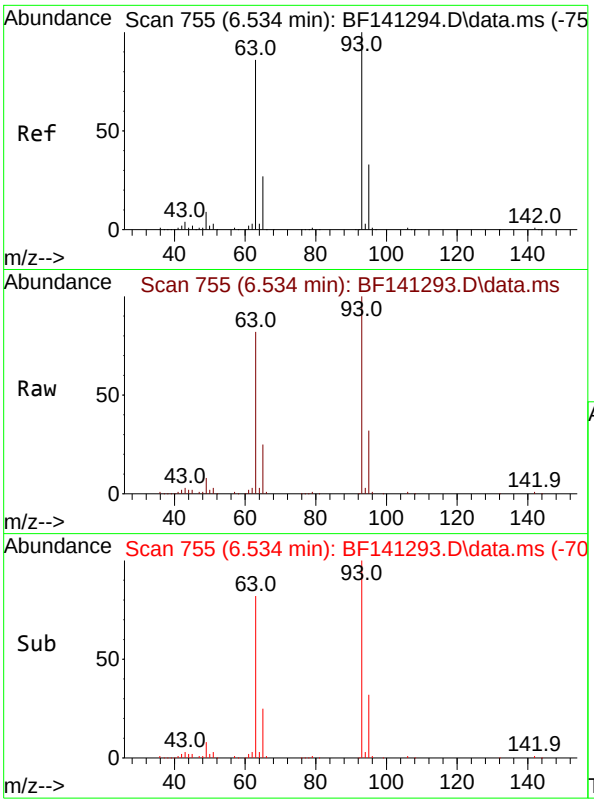


#10
Phenol
Concen: 21.611 ng
RT: 6.434 min Scan# 738
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 94 Resp: 257179

Ion	Ratio	Lower	Upper
94	100		
65	30.1	10.8	50.8
66	41.1	23.3	63.3

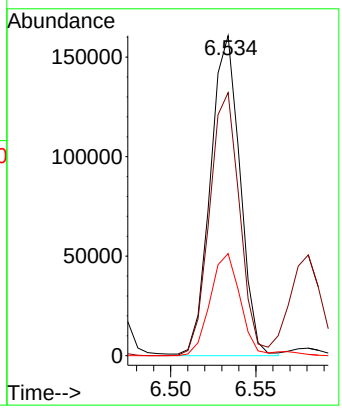




#11
bis(2-Chloroethyl)ether
Concen: 21.260 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 93 Resp: 19457

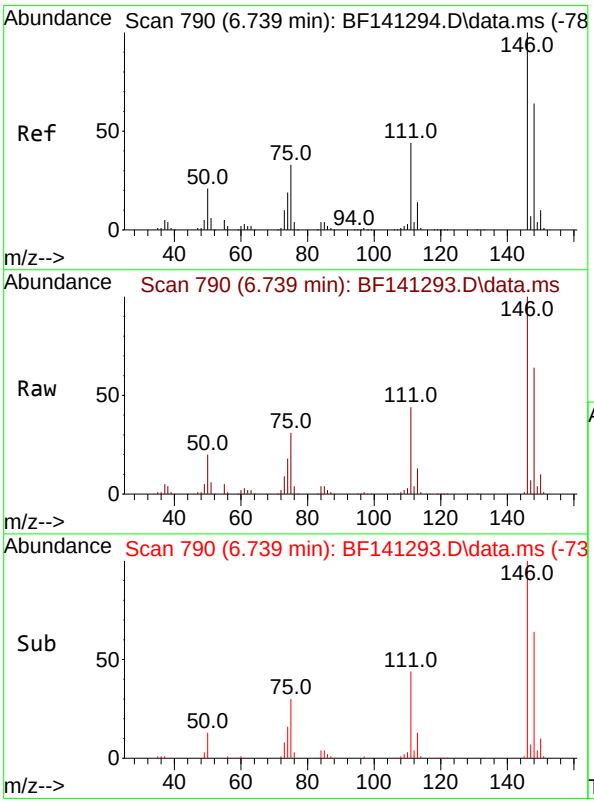
Ion	Ratio	Lower	Upper
93	100		
63	82.2	65.0	105.0
95	31.9	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

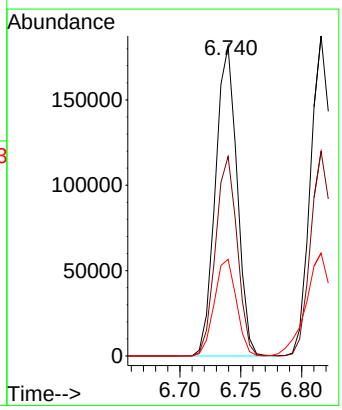
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

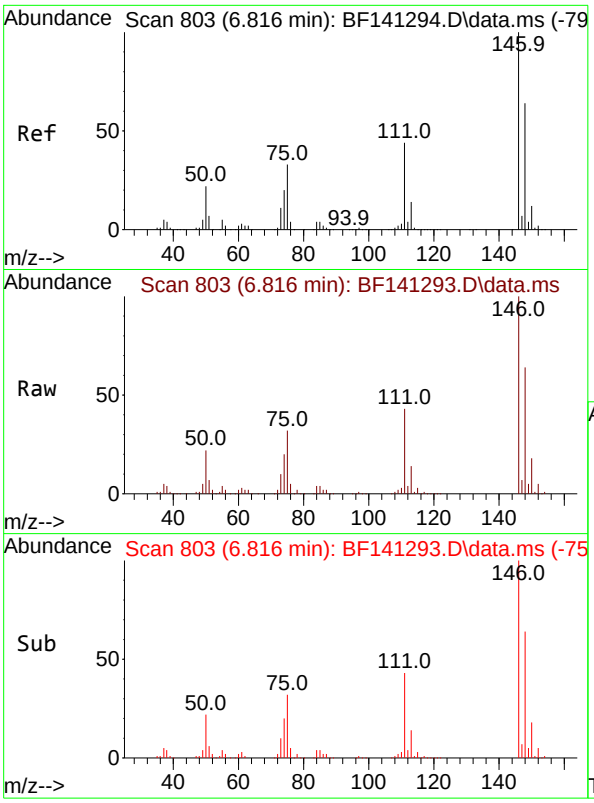


#12
1,3-Dichlorobenzene
Concen: 21.512 ng
RT: 6.739 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:146 Resp: 224880

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
75	31.2	26.2	39.4

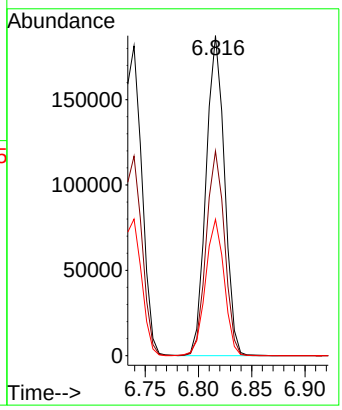




#13
1,4-Dichlorobenzene
Concen: 21.503 ng
RT: 6.816 min Scan# 8(
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:146 Resp: 22637(

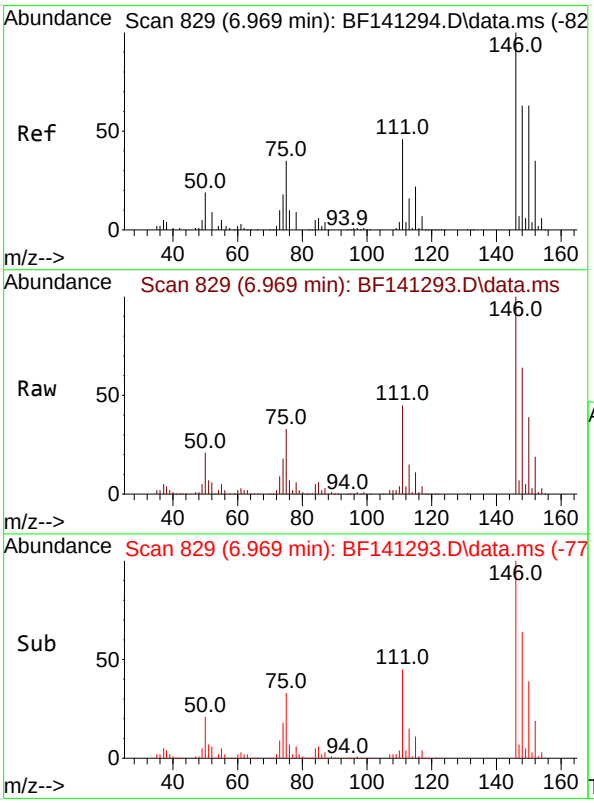
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.2	76.8
111	42.6	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

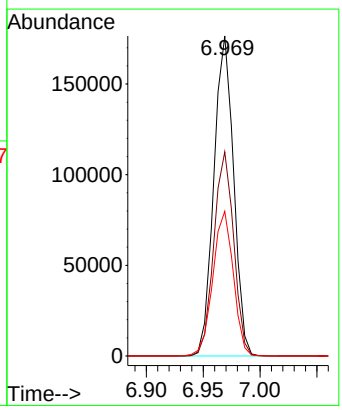
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

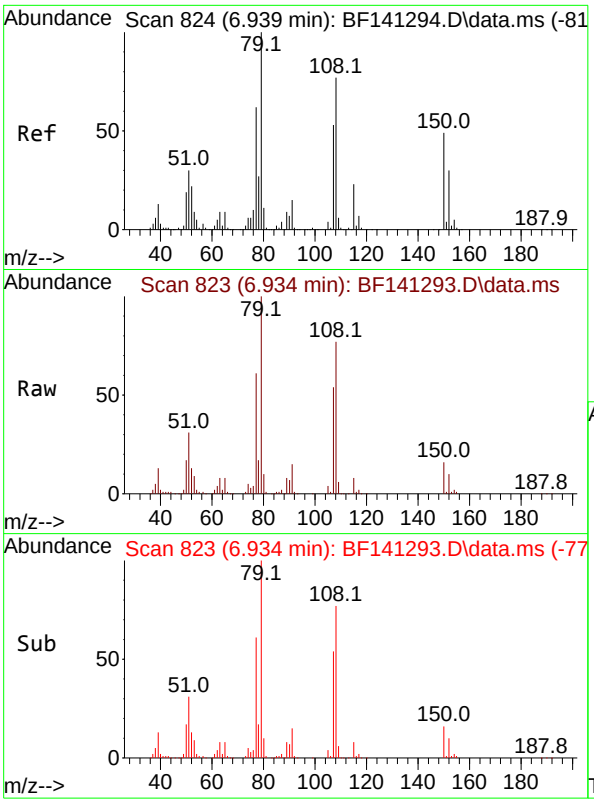


#14
1,2-Dichlorobenzene
Concen: 21.714 ng
RT: 6.969 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:146 Resp: 213616

Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.5	75.7
111	45.2	36.6	55.0

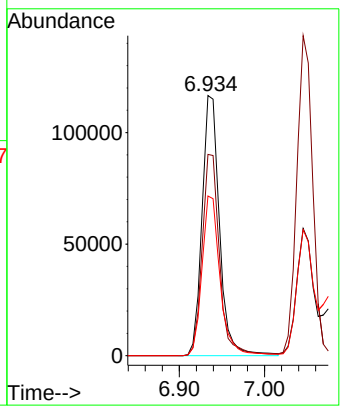




#15
Benzyl Alcohol
Concen: 21.602 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 79 Resp: 16600

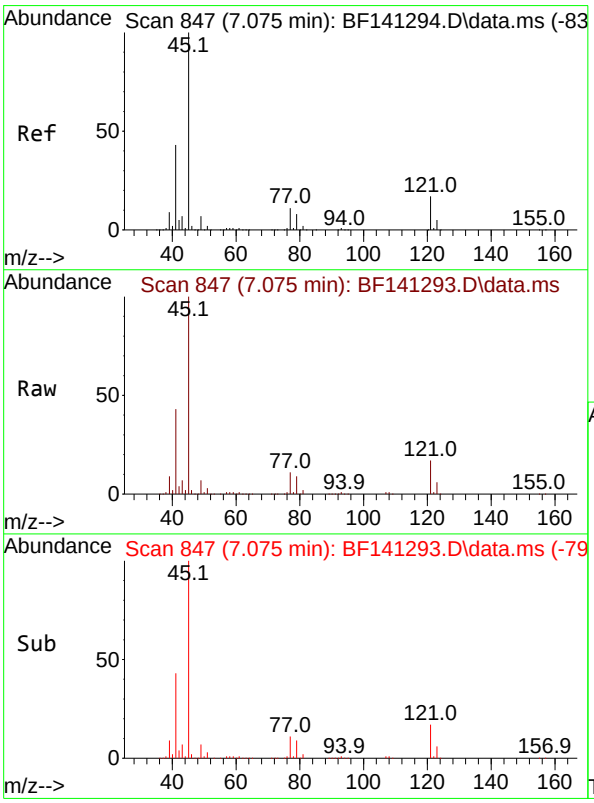
Ion	Ratio	Lower	Upper
79	100		
108	77.4	61.4	92.0
77	61.4	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

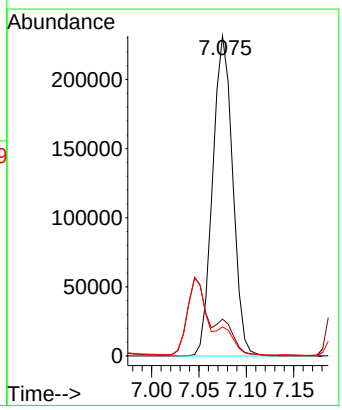
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

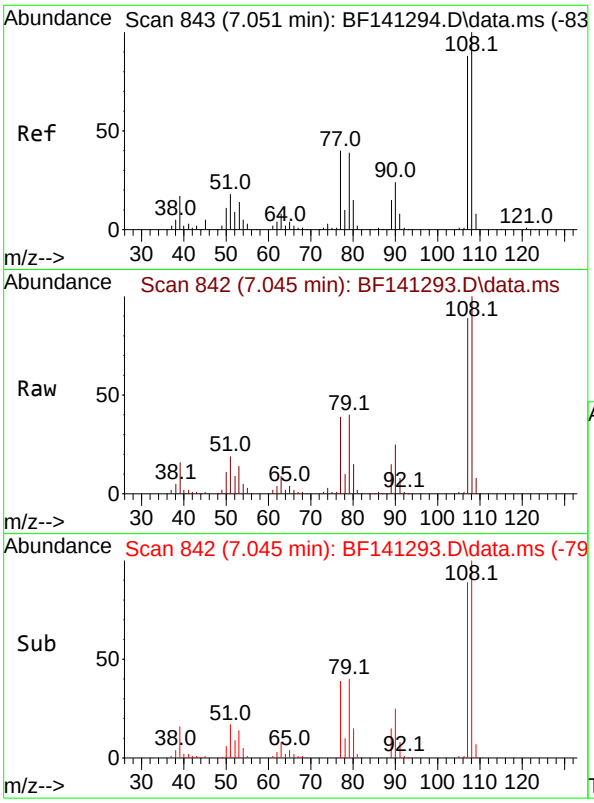


#16
2,2'-oxybis(1-Chloropropane)
Concen: 21.420 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 45 Resp: 340590

Ion	Ratio	Lower	Upper
45	100		
77	11.5	0.0	31.8
79	9.1	0.0	29.1

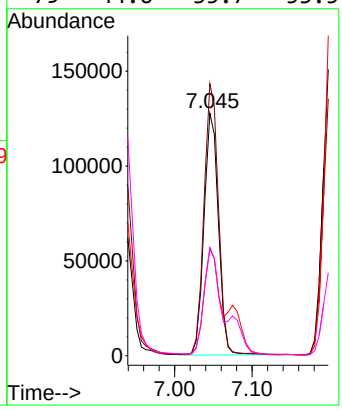




#17
2-Methylphenol
Concen: 21.525 ng
RT: 7.045 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:107 Resp: 16518

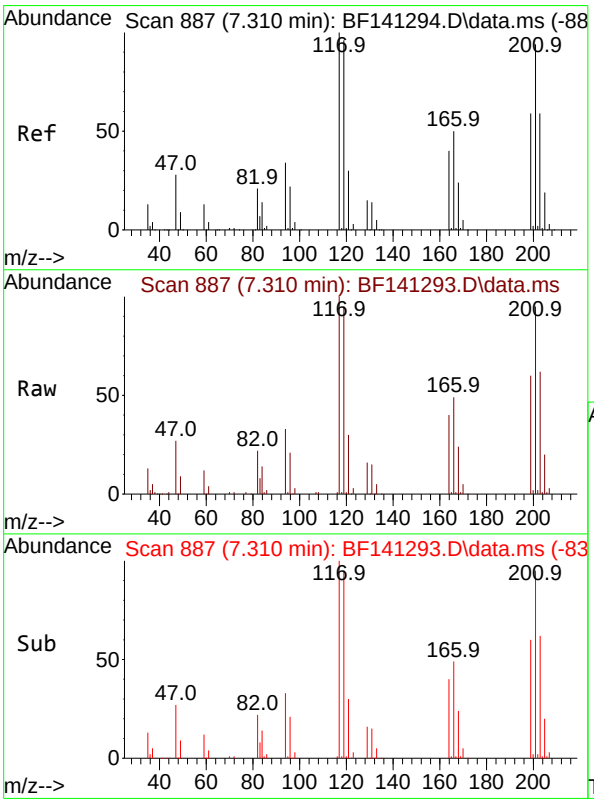
Ion	Ratio	Lower	Upper
107	100		
108	112.2	90.8	136.2
77	44.2	36.2	54.4
79	44.6	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

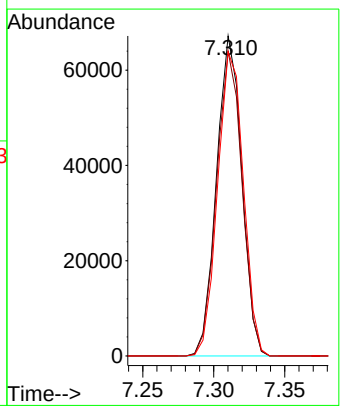
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

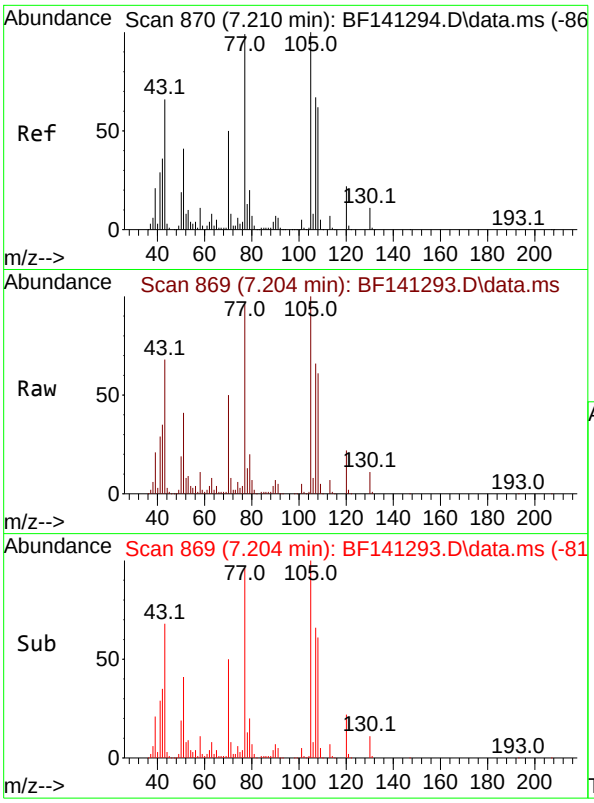


#18
Hexachloroethane
Concen: 21.359 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:117 Resp: 83193

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.6	114.8
201	95.1	74.8	112.2

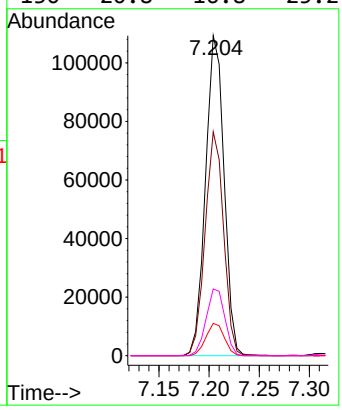




#19
n-Nitroso-di-n-propylamine
Concen: 21.058 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 70 Resp: 14087

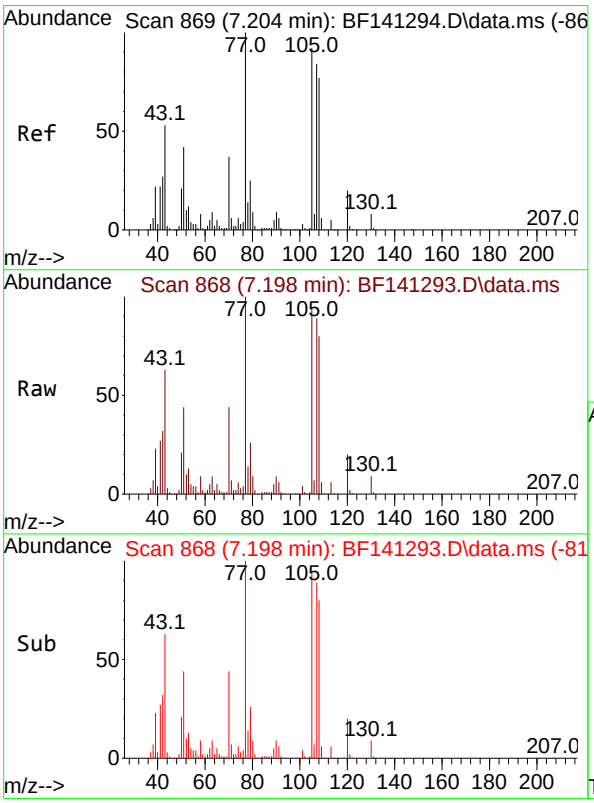
Ion	Ratio	Lower	Upper
70	100		
42	69.9	56.8	85.2
101	10.1	7.7	11.5
130	20.8	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

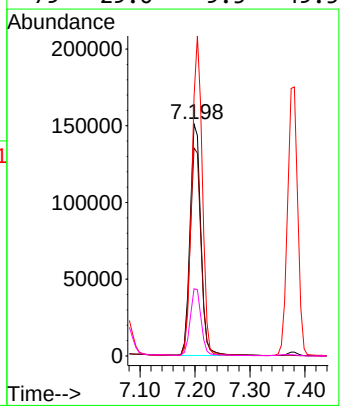
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

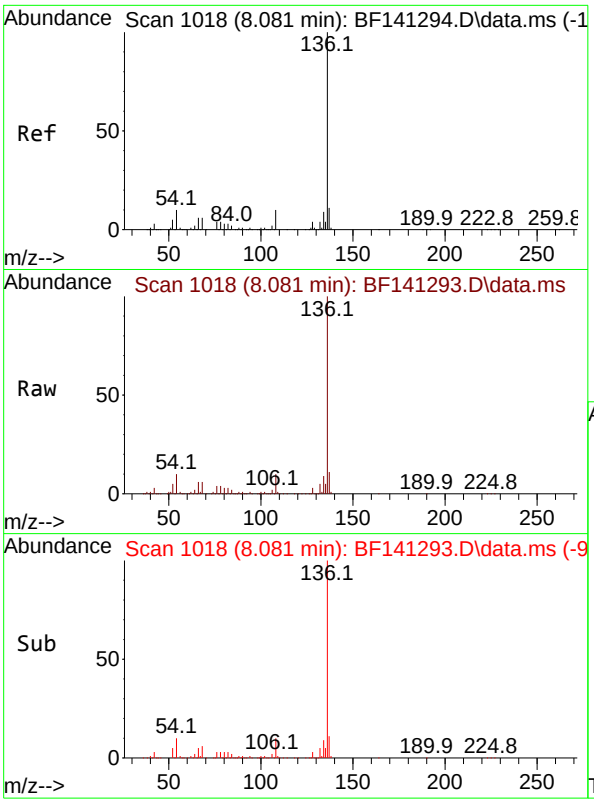


#20
3+4-Methylphenols
Concen: 21.734 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:107 Resp: 205070

Ion	Ratio	Lower	Upper
107	100		
108	89.7	70.9	110.9
77	111.7	98.5	138.5
79	29.0	9.5	49.5

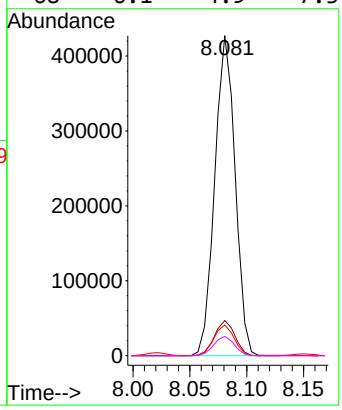




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:136 Resp: 53286

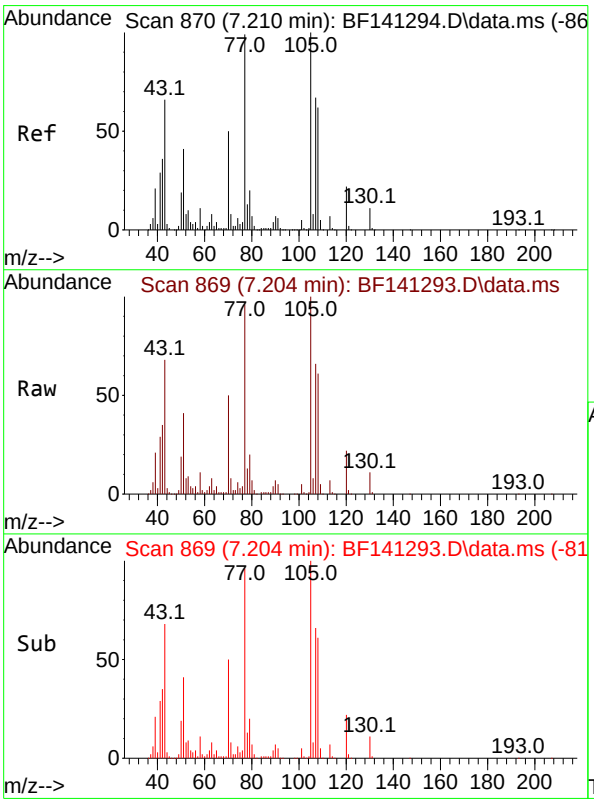
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	9.6	7.8	11.8
68	6.1	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

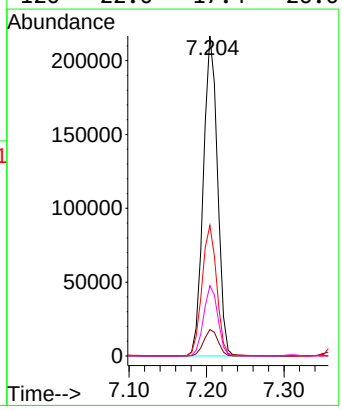
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

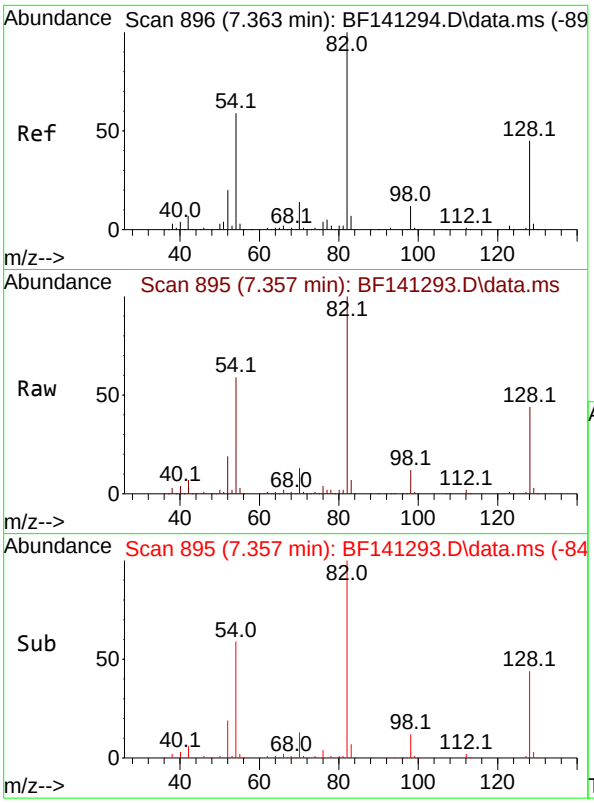


#22
Acetophenone
Concen: 21.825 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:105 Resp: 275680

Ion	Ratio	Lower	Upper
105	100		
71	8.2	6.8	10.2
51	40.8	32.6	49.0
120	22.0	17.4	26.0

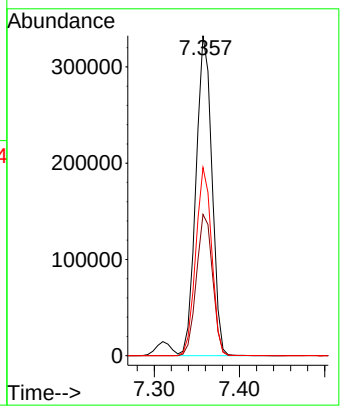




#23
Nitrobenzene-d5
Concen: 42.912 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 82 Resp: 43216

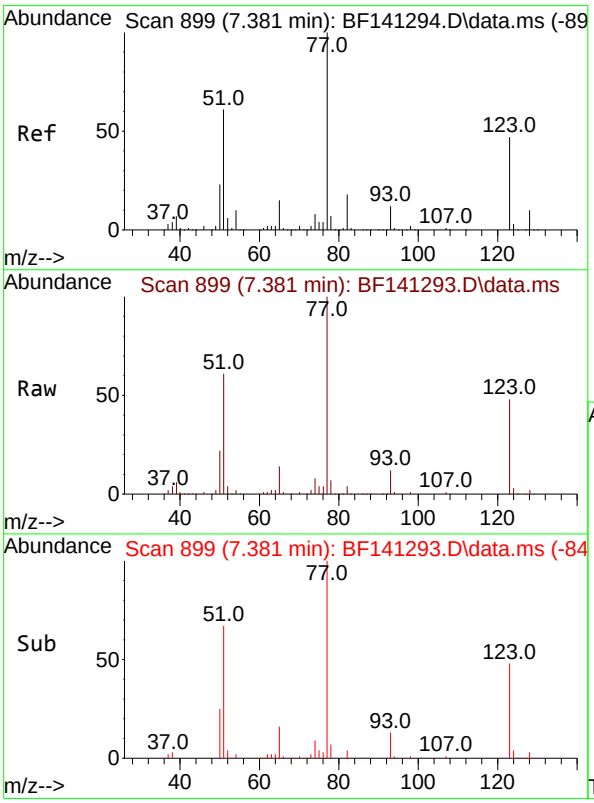
Ion	Ratio	Lower	Upper
82	100		
128	44.2	35.7	53.5
54	58.8	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

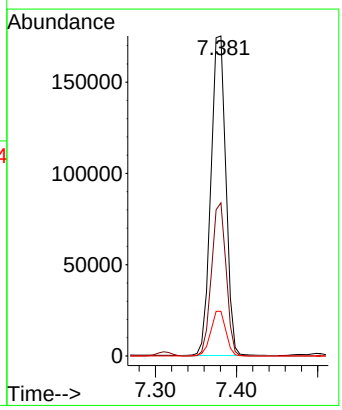
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

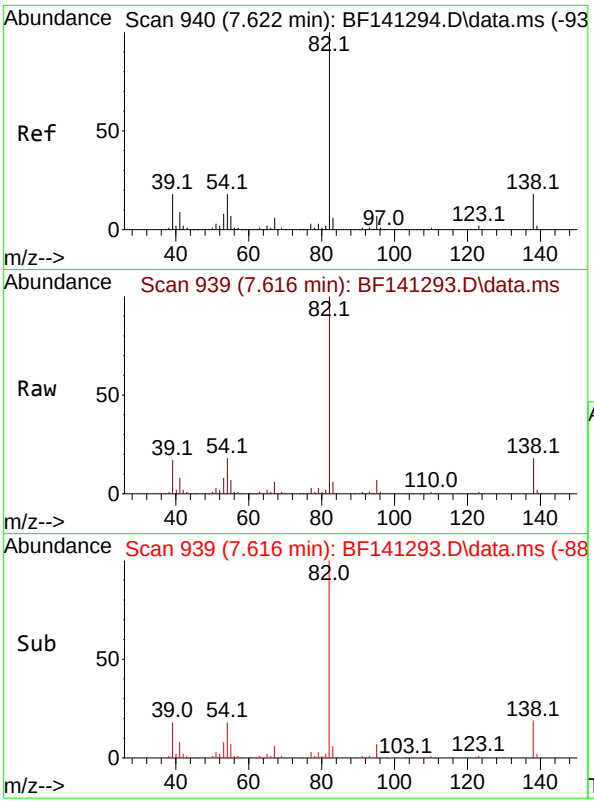


#24
Nitrobenzene
Concen: 21.451 ng
RT: 7.381 min Scan# 899
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 77 Resp: 224061

Ion	Ratio	Lower	Upper
77	100		
123	47.8	37.3	55.9
65	13.9	11.8	17.6

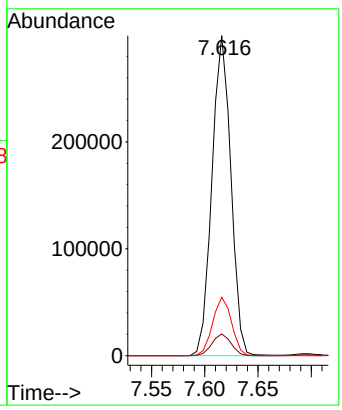




#25
Isophorone
Concen: 21.259 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 82 Resp: 36999

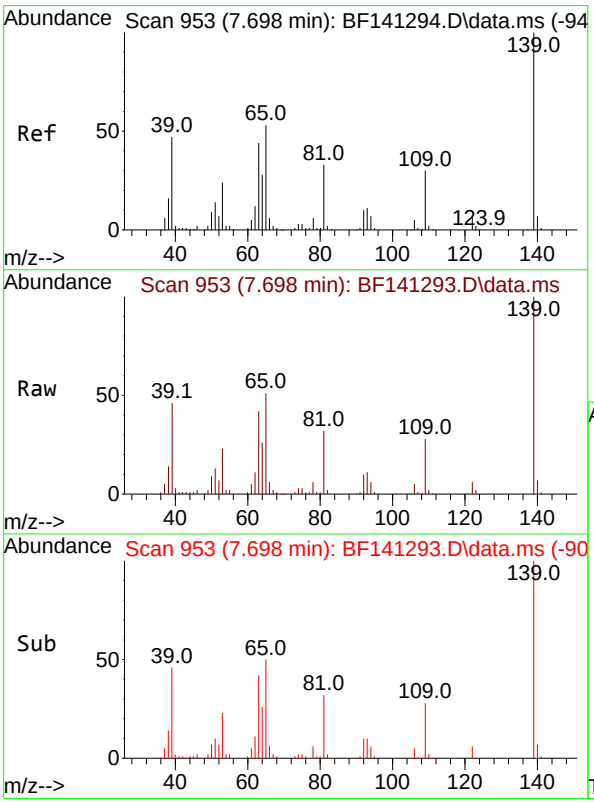
Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.8	8.6
138	18.2	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

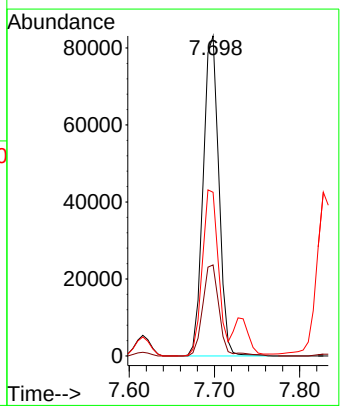
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

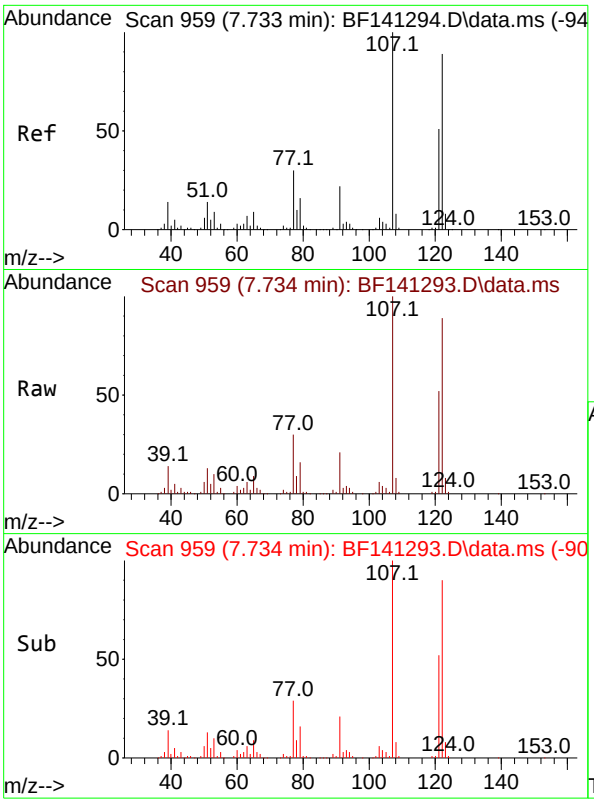


#26
2-Nitrophenol
Concen: 21.725 ng
RT: 7.698 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:139 Resp: 106287

Ion	Ratio	Lower	Upper
139	100		
109	28.5	23.8	35.6
65	51.2	42.2	63.4

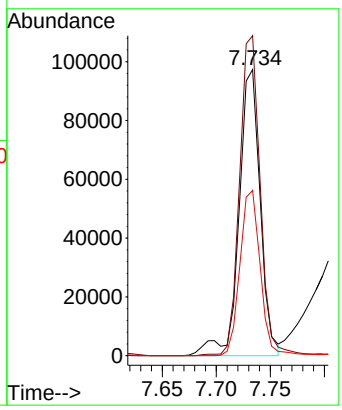




#27
2,4-Dimethylphenol
Concen: 21.233 ng m
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:122 Resp: 13274

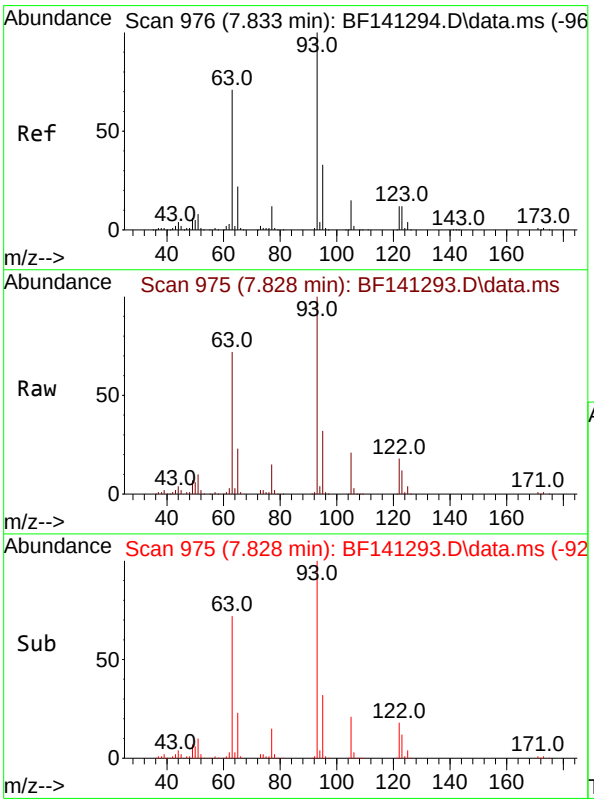
Ion	Ratio	Lower	Upper
122	100		
107	111.9	89.9	134.9
121	57.8	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

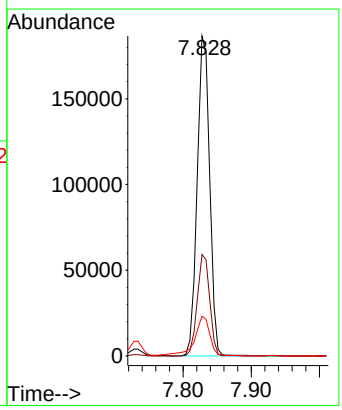
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

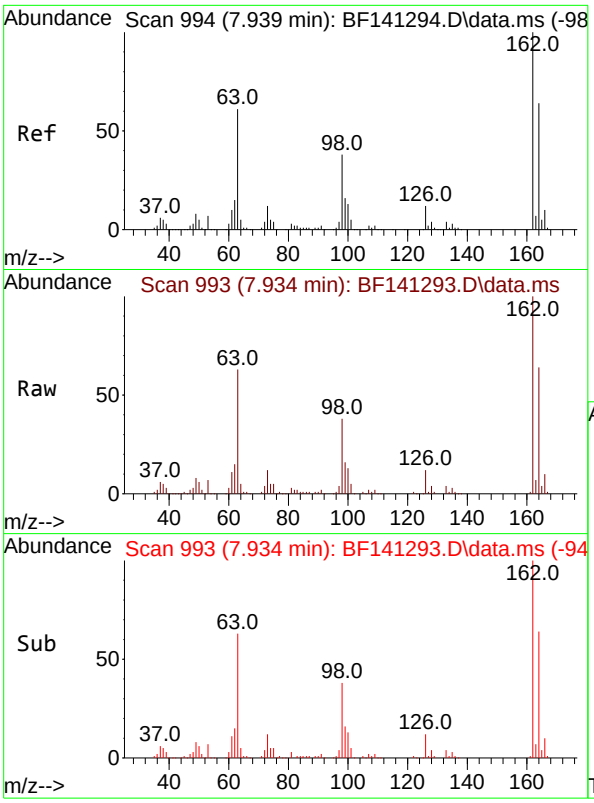


#28
bis(2-Chloroethoxy)methane
Concen: 21.403 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 93 Resp: 237369

Ion	Ratio	Lower	Upper
93	100		
95	31.7	26.2	39.2
123	12.5	10.2	15.4

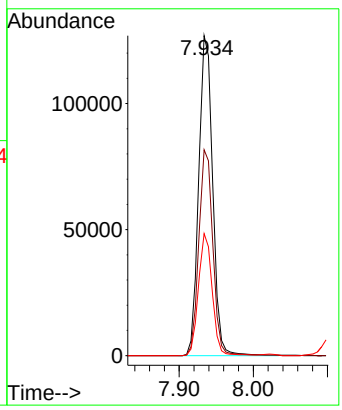




#29
2,4-Dichlorophenol
Concen: 21.750 ng
RT: 7.934 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:162 Resp: 16615

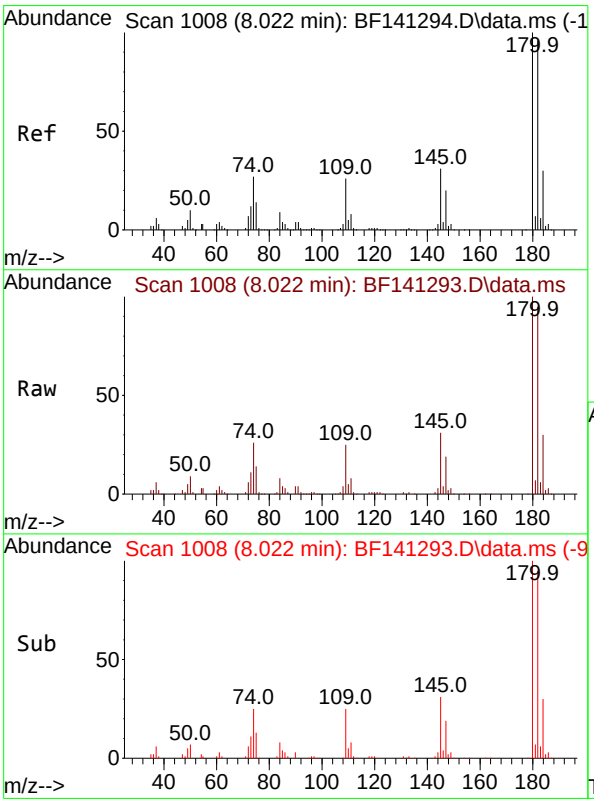
Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.2	84.2
98	38.1	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

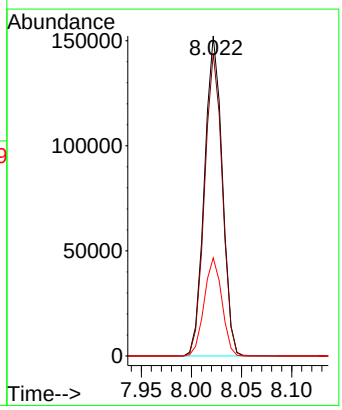
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

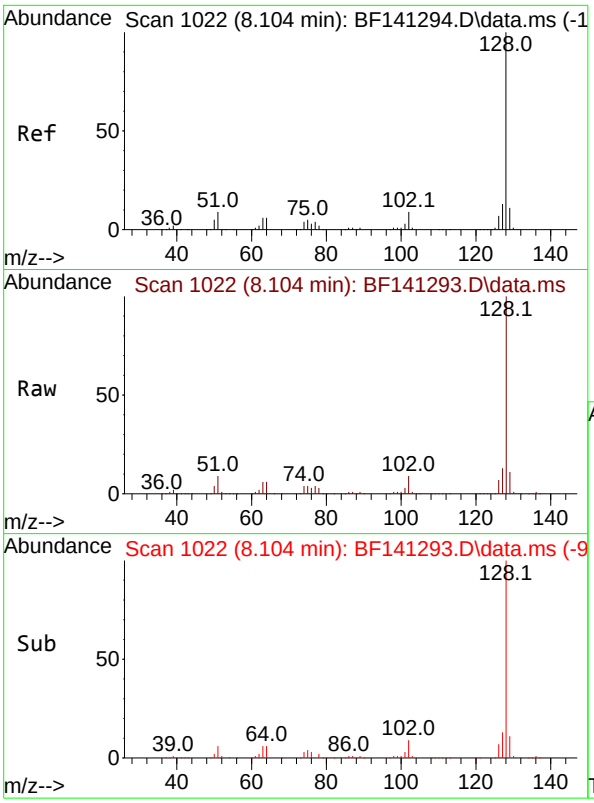


#30
1,2,4-Trichlorobenzene
Concen: 21.511 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:180 Resp: 188468

Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.4	114.6
145	30.6	24.9	37.3

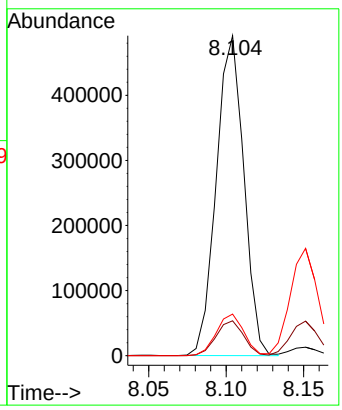




#31
Naphthalene
Concen: 21.681 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:128 Resp: 60762

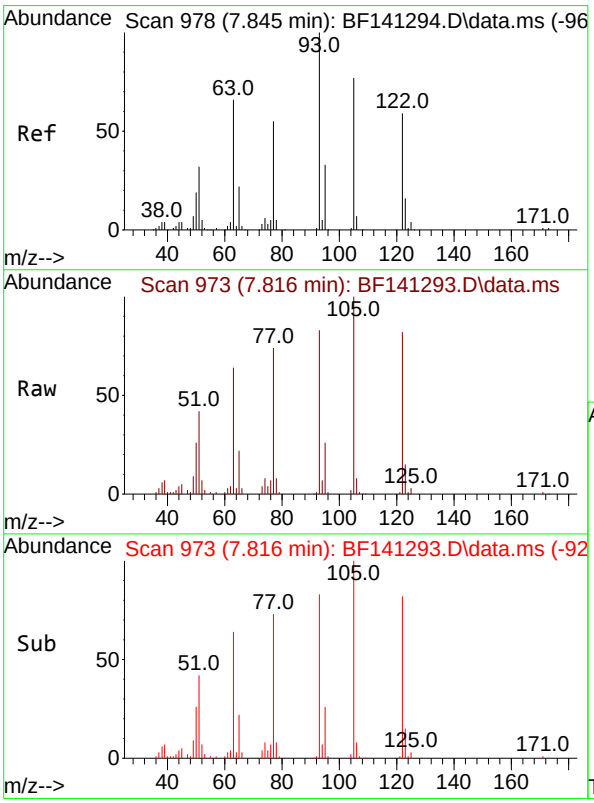
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.0	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

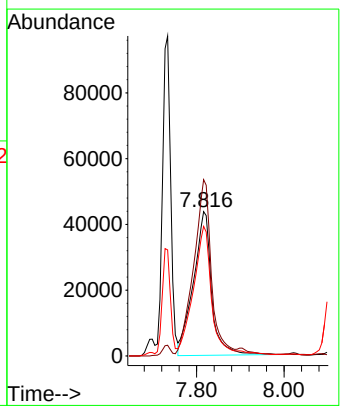
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

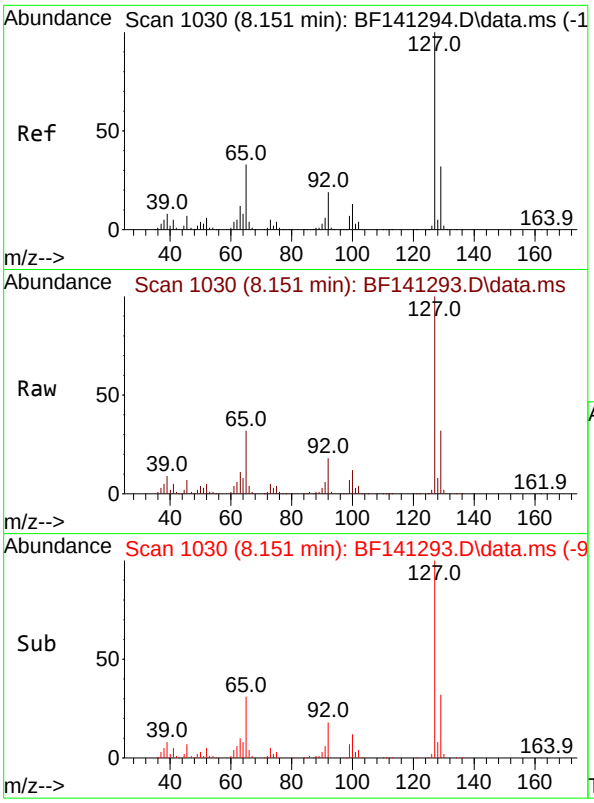


#32
Benzoic acid
Concen: 22.321 ng
RT: 7.816 min Scan# 973
Delta R.T. -0.029 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:122 Resp: 126734

Ion	Ratio	Lower	Upper
122	100		
105	122.2	103.4	143.4
77	89.9	70.9	110.9

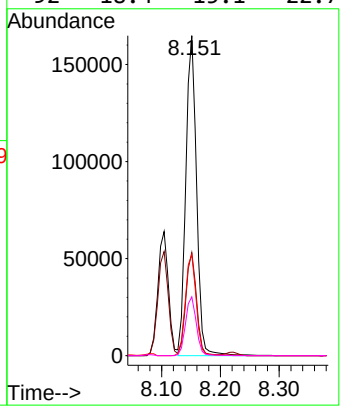




#33
4-Chloroaniline
Concen: 22.151 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:127 Resp: 20853

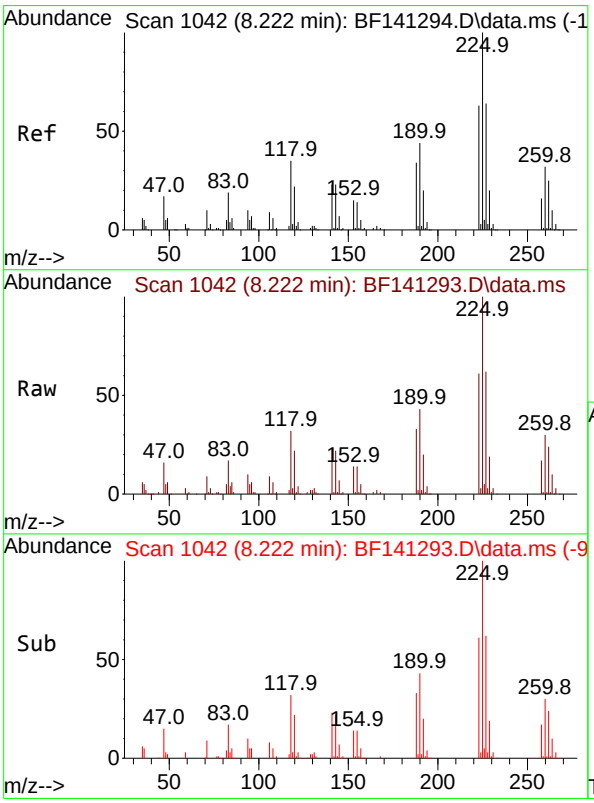
Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.7	38.5
65	31.6	26.4	39.6
92	18.4	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

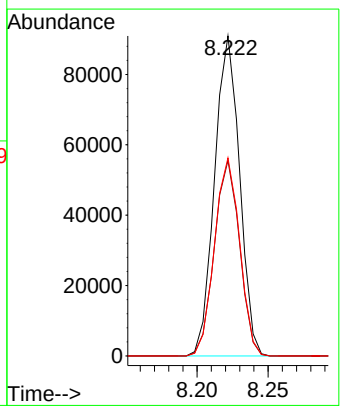
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

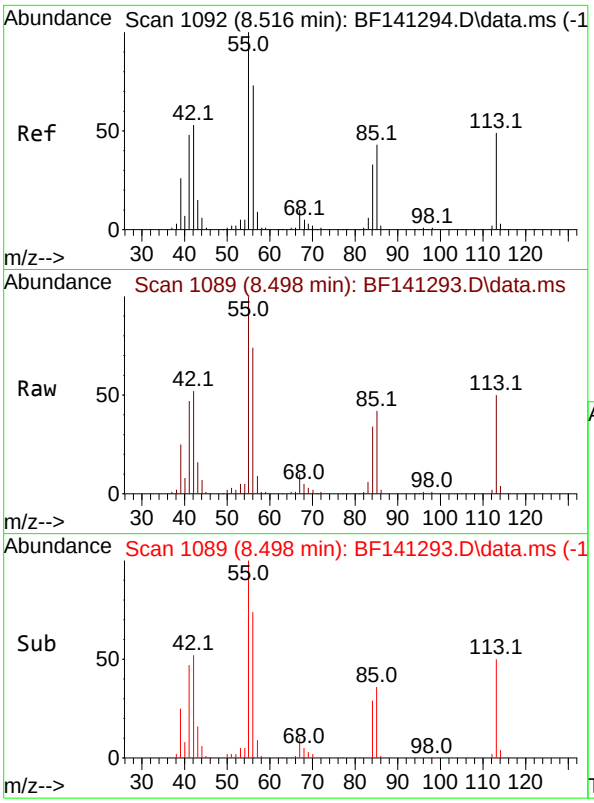


#34
Hexachlorobutadiene
Concen: 21.699 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:225 Resp: 111274

Ion	Ratio	Lower	Upper
225	100		
223	61.0	50.4	75.6
227	61.9	51.3	76.9





#35
Caprolactam
Concen: 21.968 ng
RT: 8.498 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

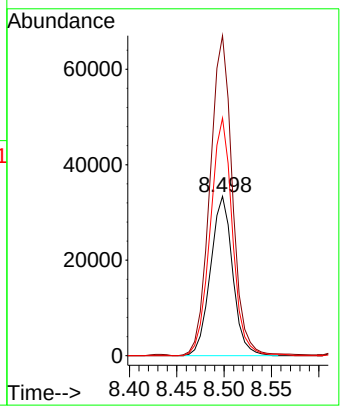
Tgt Ion:113 Resp: 5428

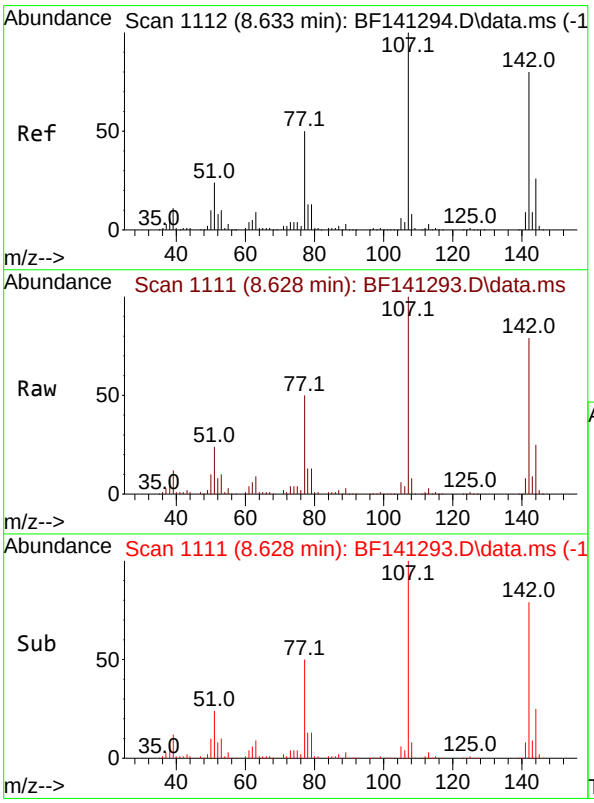
Ion	Ratio	Lower	Upper
113	100		
55	200.9	182.9	222.9
56	149.2	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

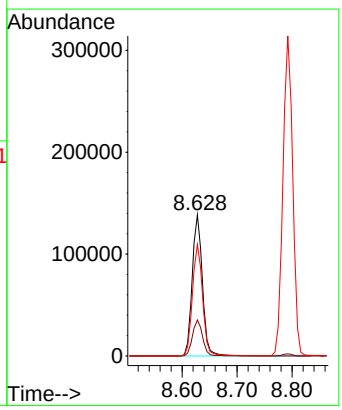


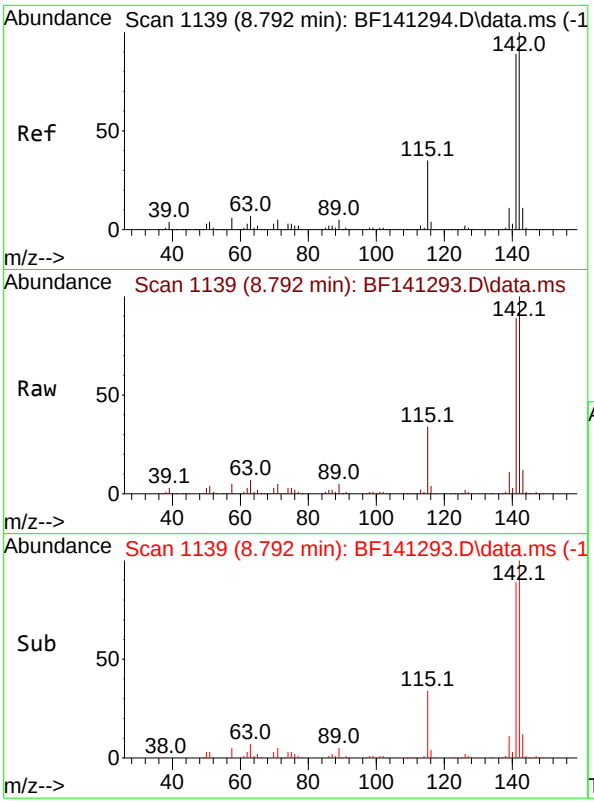


#36
4-Chloro-3-methylphenol
Concen: 21.708 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:107 Resp: 177981

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.7	31.1
142	79.0	63.8	95.8





#37
2-Methylnaphthalene
Concen: 21.630 ng
RT: 8.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

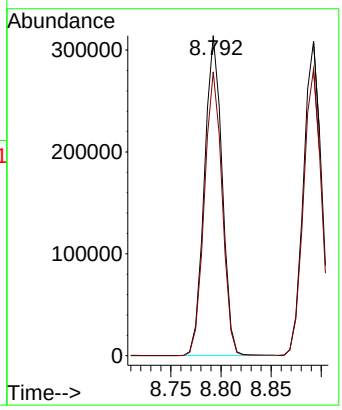
Tgt Ion:142 Resp: 38603

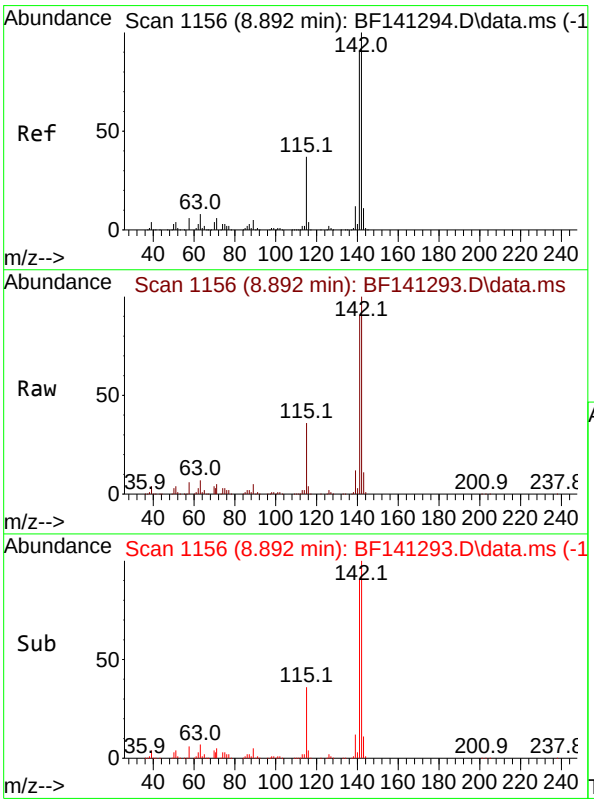
Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

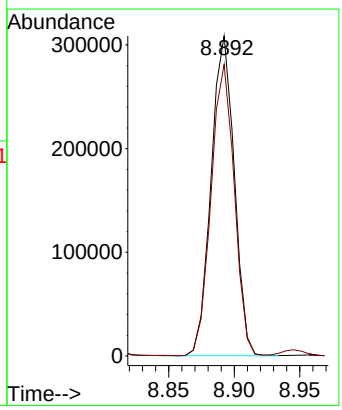


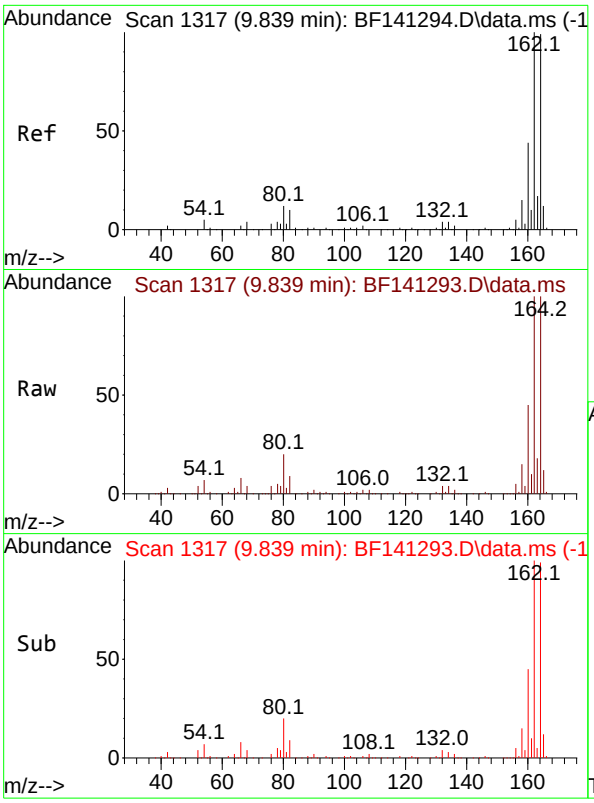


#38
1-Methylnaphthalene
Concen: 21.671 ng
RT: 8.892 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:142 Resp: 378878

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.2	109.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

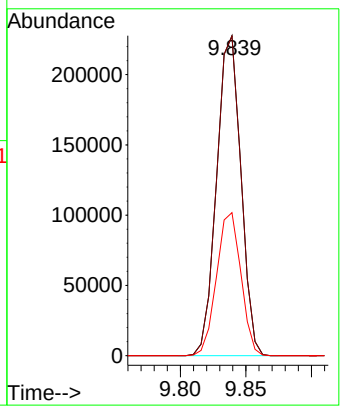
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

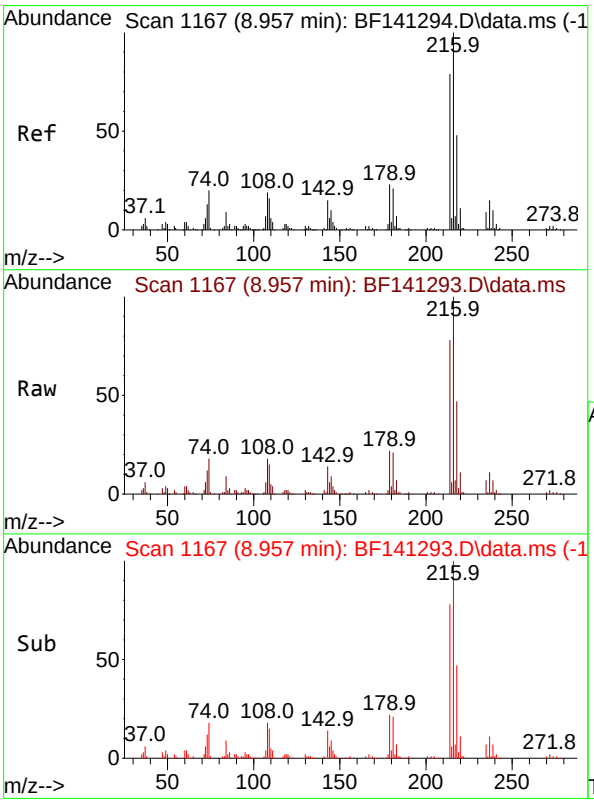
Tgt Ion:164 Resp: 29308

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.6	121.0
160	44.7	35.8	53.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

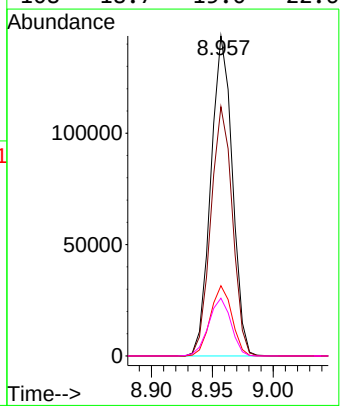


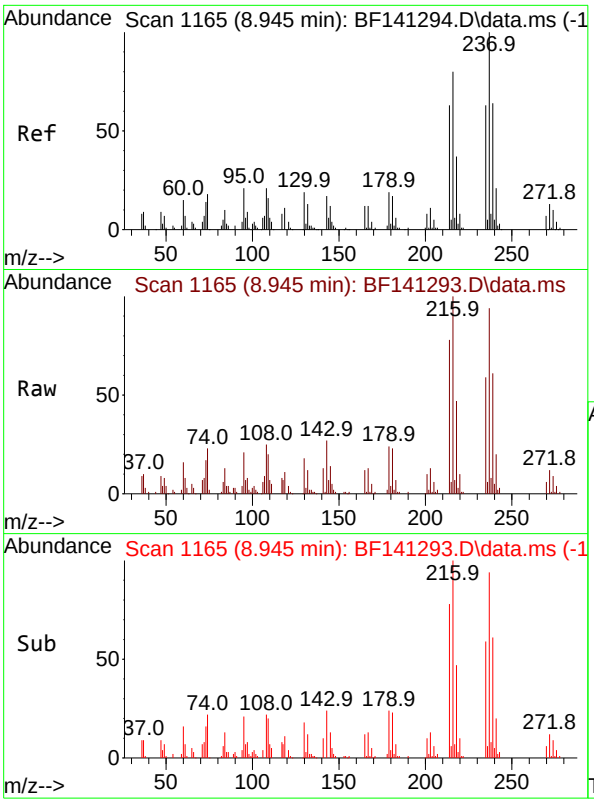


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.209 ng
RT: 8.957 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:216 Resp: 176736

Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.2	94.8
179	21.9	17.8	26.8
108	18.7	15.0	22.6

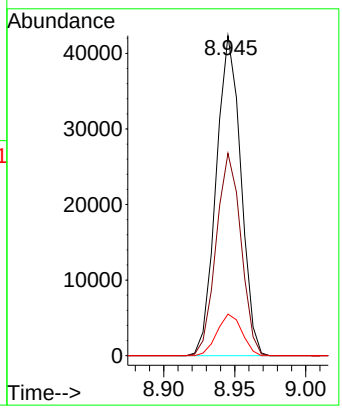




#41
Hexachlorocyclopentadiene
Concen: 20.438 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:237 Resp: 5111

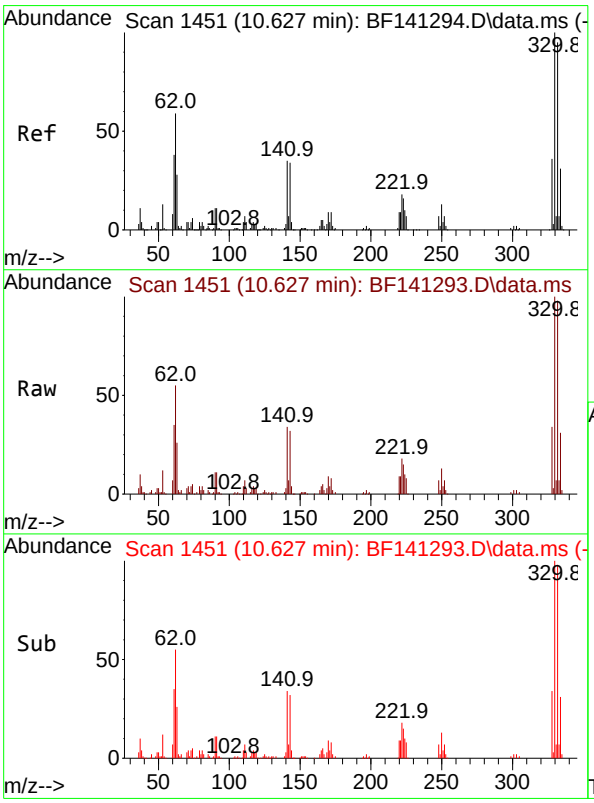
Ion	Ratio	Lower	Upper
237	100		
235	63.3	42.9	82.9
272	13.0	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

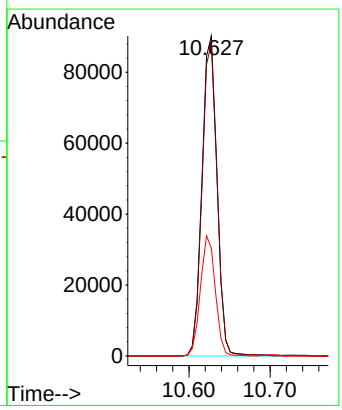
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

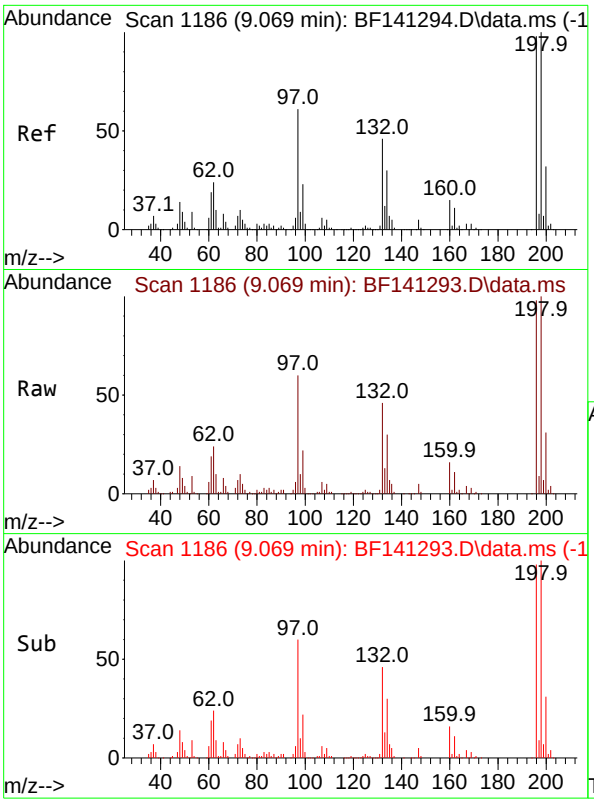


#42
2,4,6-Tribromophenol
Concen: 43.498 ng
RT: 10.627 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:330 Resp: 116167

Ion	Ratio	Lower	Upper
330	100		
332	97.4	76.1	114.1
141	37.2	28.8	43.2

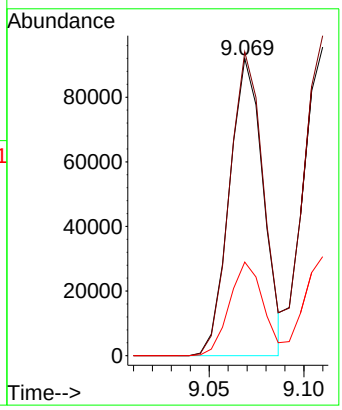




#43
2,4,6-Trichlorophenol
Concen: 21.029 ng
RT: 9.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:196 Resp: 11439

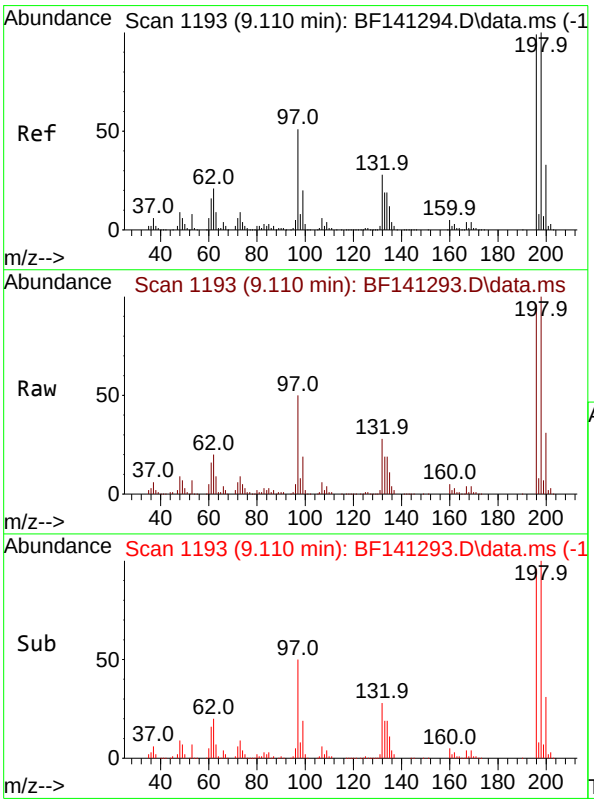
Ion	Ratio	Lower	Upper
196	100		
198	102.3	81.8	122.6
200	31.5	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

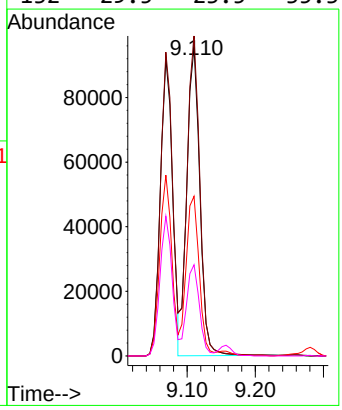
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

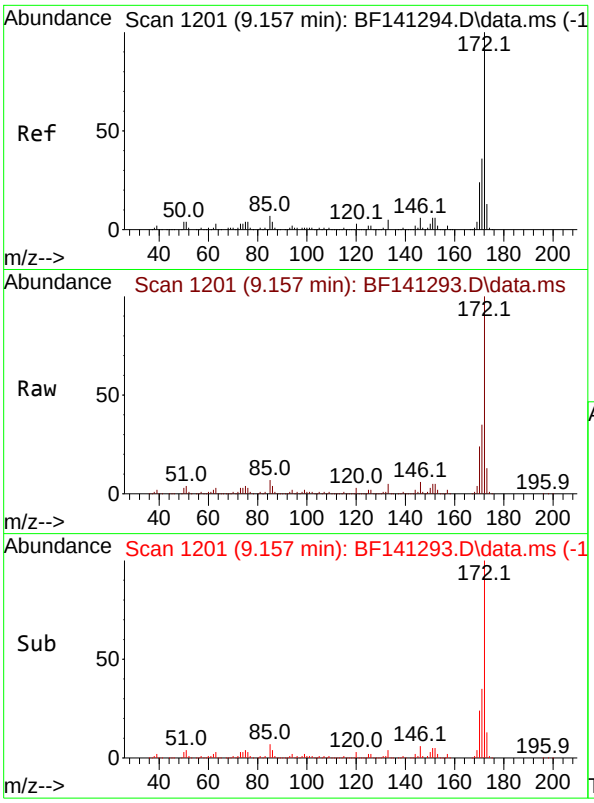


#44
2,4,5-Trichlorophenol
Concen: 21.245 ng
RT: 9.110 min Scan# 1193
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:196 Resp: 125725

Ion	Ratio	Lower	Upper
196	100		
198	103.7	80.5	120.7
97	51.8	42.8	64.2
132	29.5	23.5	35.3





#45
2-Fluorobiphenyl
Concen: 43.127 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

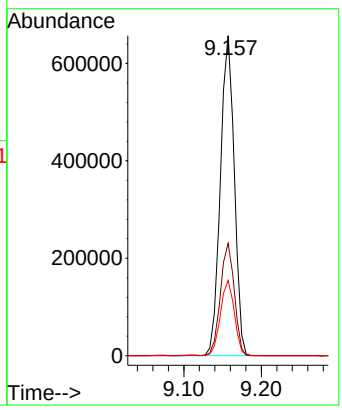
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

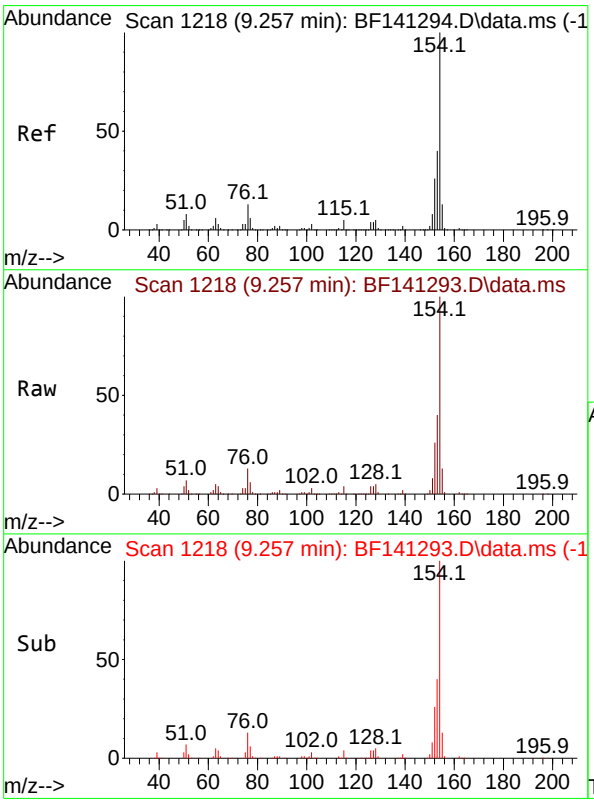
Tgt Ion:172 Resp: 81937

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.8	43.2
170	23.5	19.0	28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

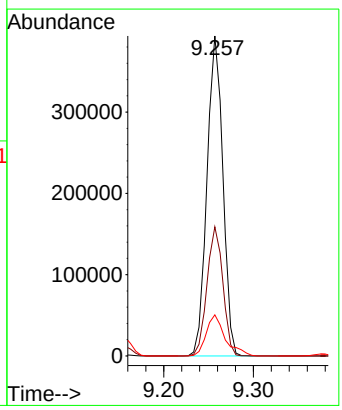


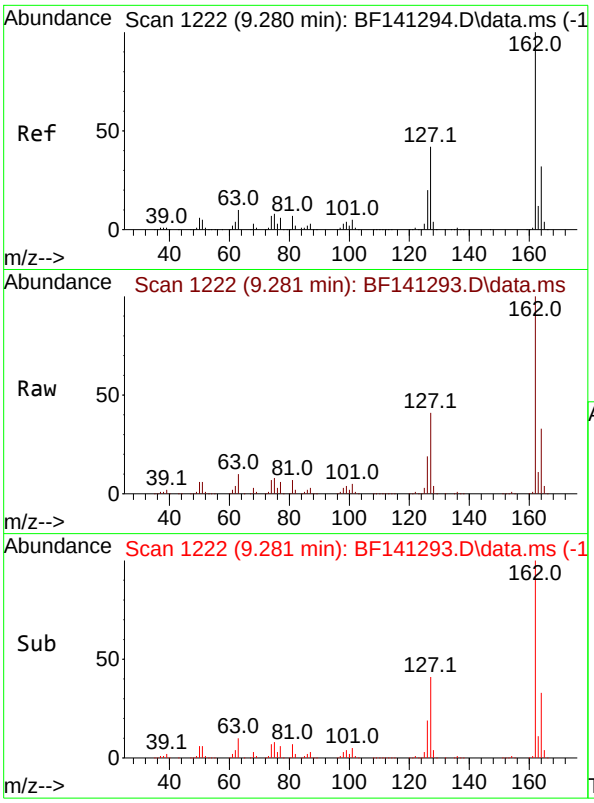


#46
1,1'-Biphenyl
Concen: 21.145 ng
RT: 9.257 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:154 Resp: 483479

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	12.8	0.0	32.8

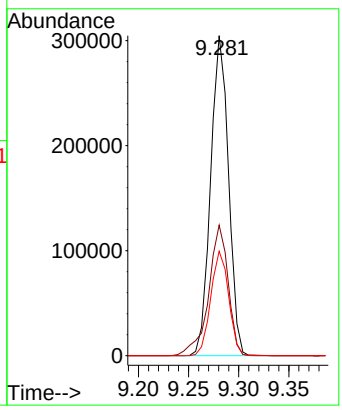




#47
2-Chloronaphthalene
Concen: 21.282 ng
RT: 9.281 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:162 Resp: 37794

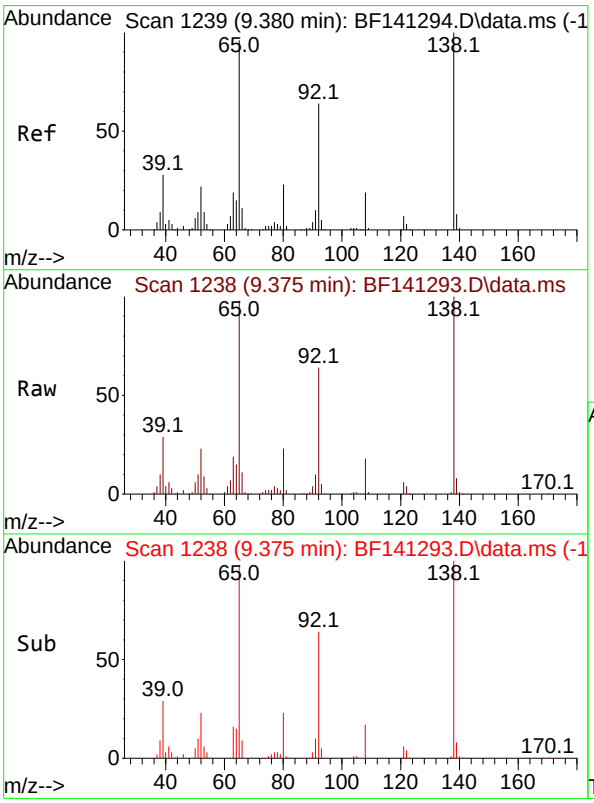
Ion	Ratio	Lower	Upper
162	100		
127	40.8	33.7	50.5
164	32.7	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

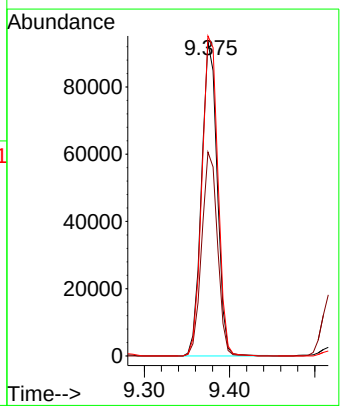
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

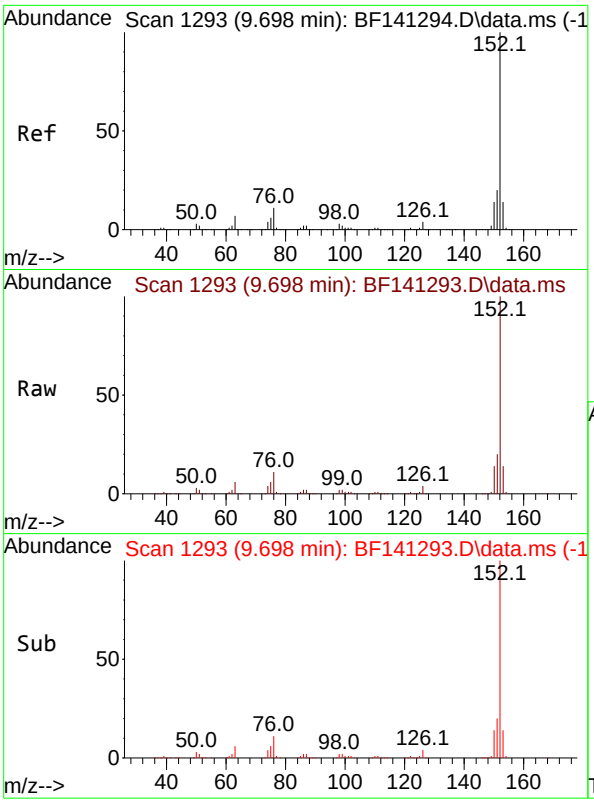


#48
2-Nitroaniline
Concen: 21.310 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 65 Resp: 119359

Ion	Ratio	Lower	Upper
65	100		
92	64.9	53.3	79.9
138	102.0	83.6	125.4

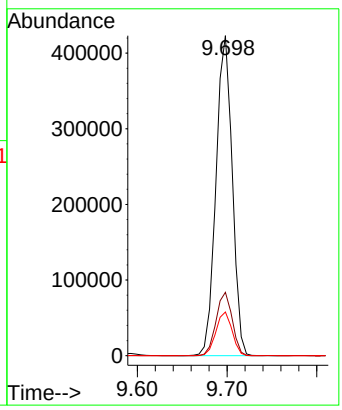




#49
Acenaphthylene
Concen: 21.328 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:152 Resp: 53195

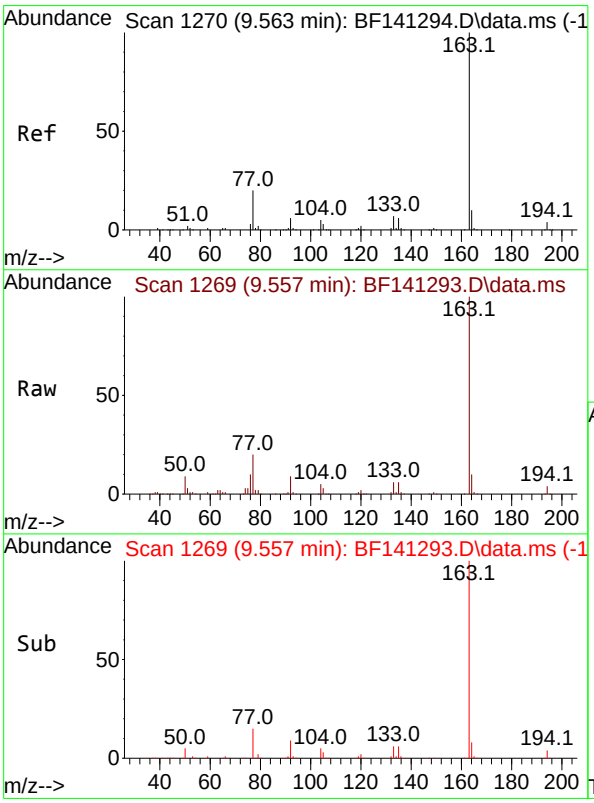
Ion	Ratio	Lower	Upper
152	100		
151	19.8	16.2	24.2
153	13.7	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

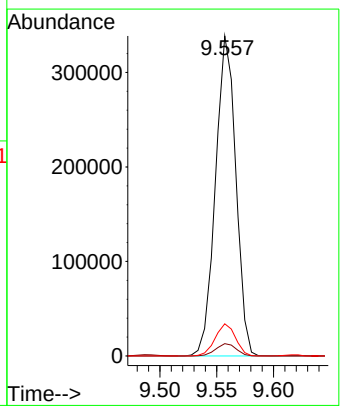
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

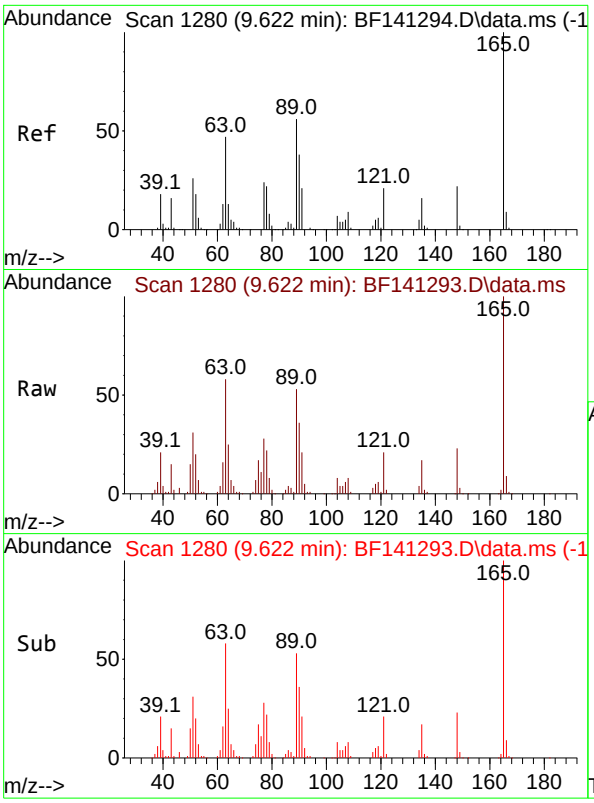


#50
Dimethylphthalate
Concen: 21.542 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:163 Resp: 423377

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.0	8.0	12.0

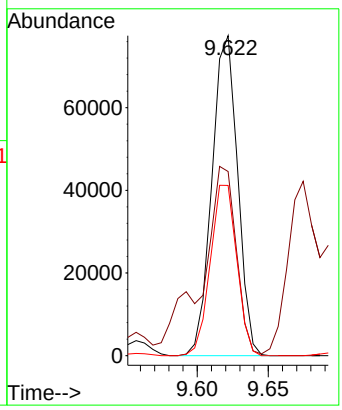




#51
2,6-Dinitrotoluene
Concen: 21.345 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:165 Resp: 9762

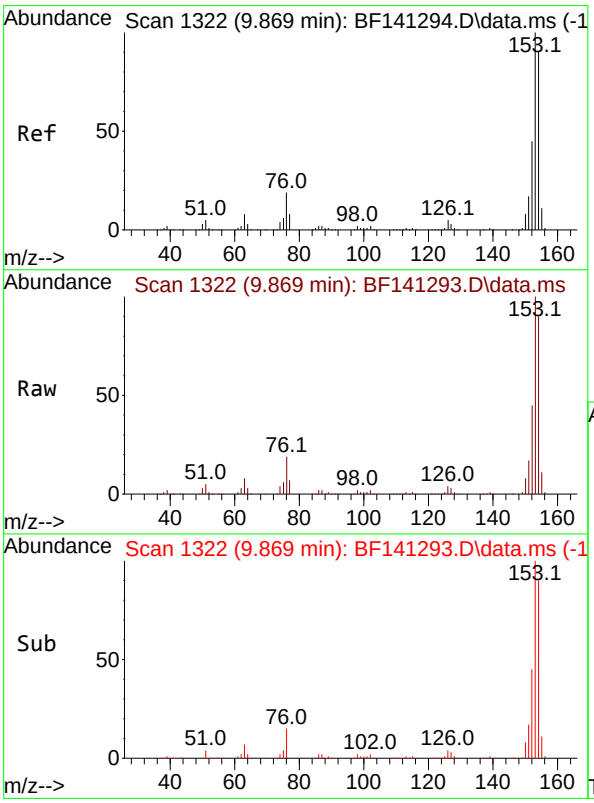
Ion	Ratio	Lower	Upper
165	100		
63	57.6	48.1	72.1
89	53.2	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

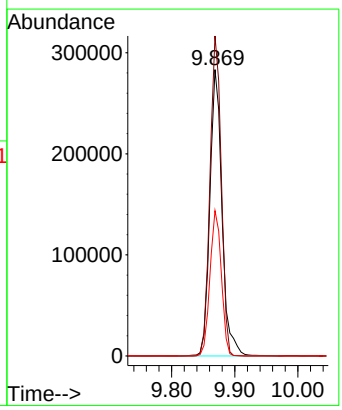
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

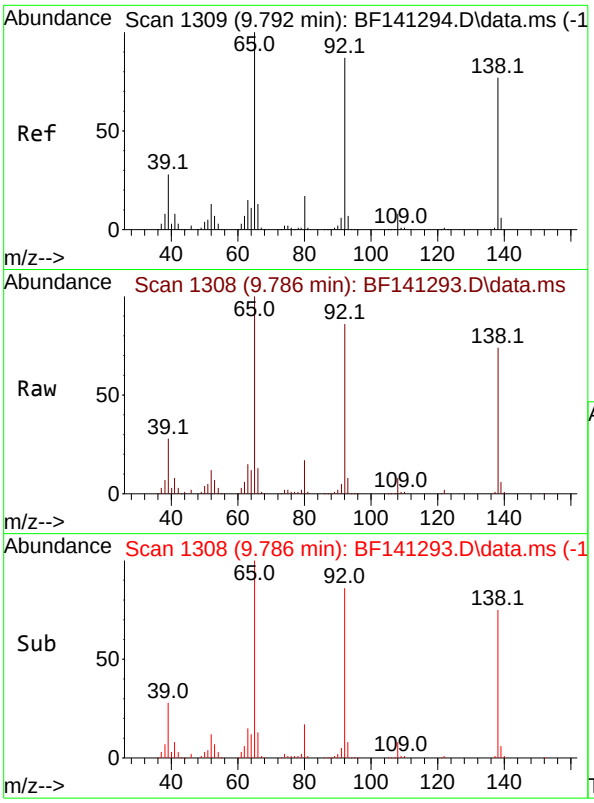


#52
Acenaphthene
Concen: 21.328 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:154 Resp: 378511

Ion	Ratio	Lower	Upper
154	100		
153	111.7	89.0	133.4
152	50.7	40.2	60.4





#53
3-Nitroaniline
Concen: 22.123 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

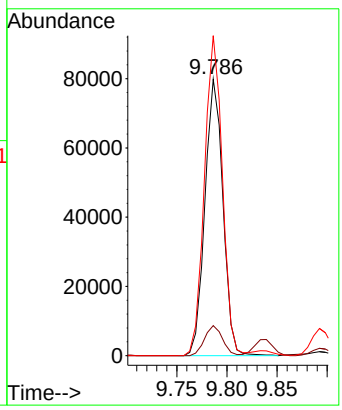
Tgt Ion:138 Resp: 10008

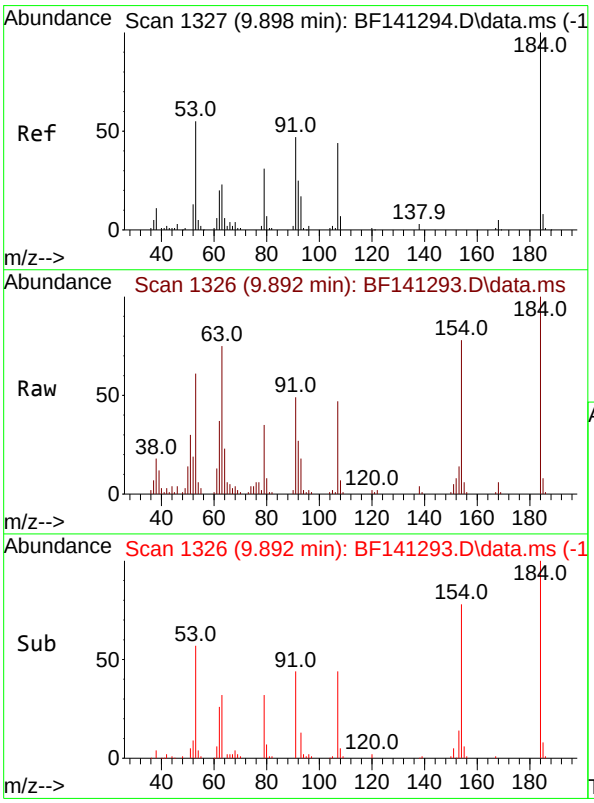
Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.6	12.8
92	115.8	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

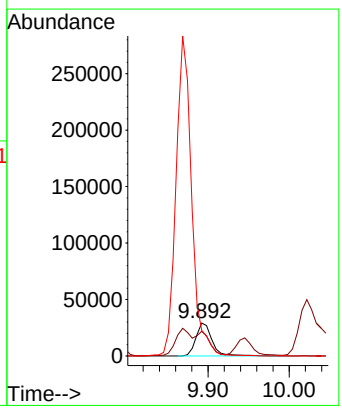


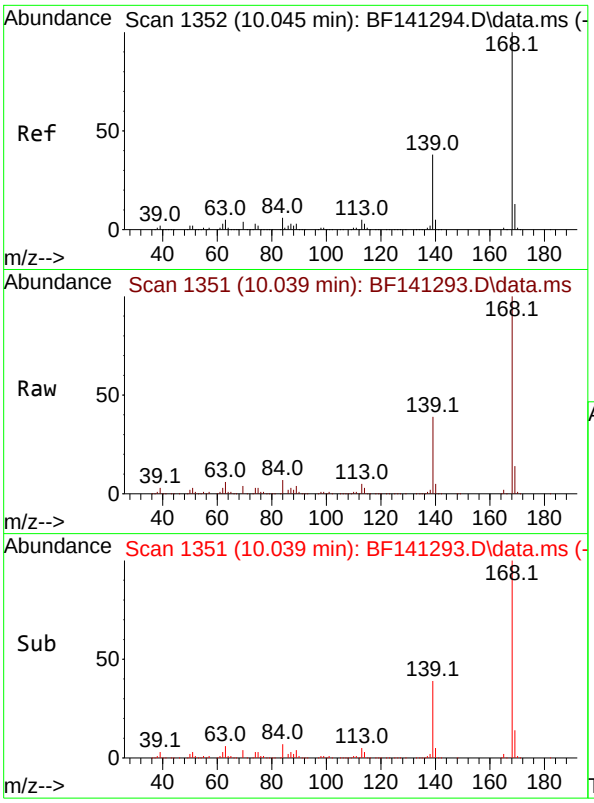


#54
2,4-Dinitrophenol
Concen: 18.557 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:184 Resp: 40003

Ion	Ratio	Lower	Upper
184	100		
63	75.1	54.1	81.1
154	78.0	50.7	76.1#

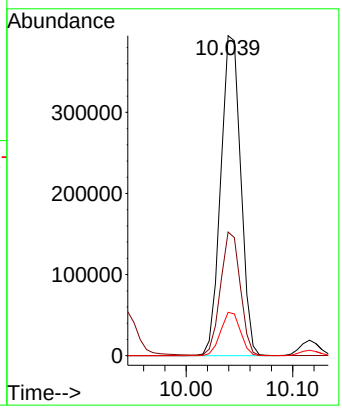




#55
Dibenzofuran
Concen: 21.665 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:168 Resp: 51422

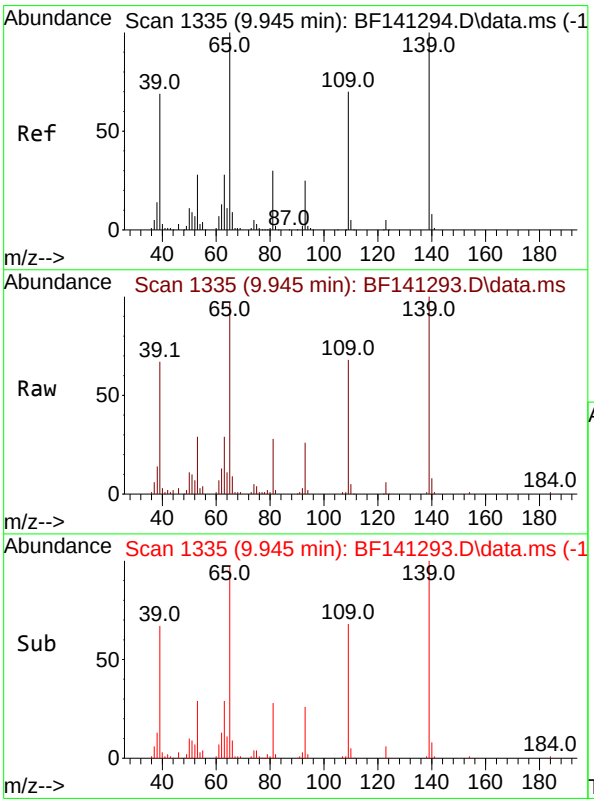
Ion	Ratio	Lower	Upper
168	100		
139	38.7	30.6	46.0
169	13.5	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

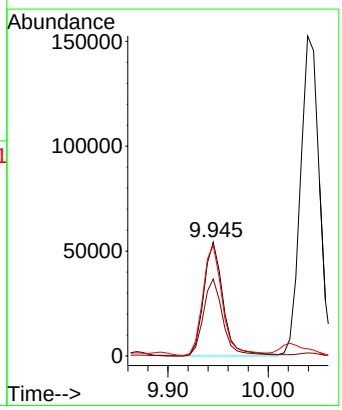
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

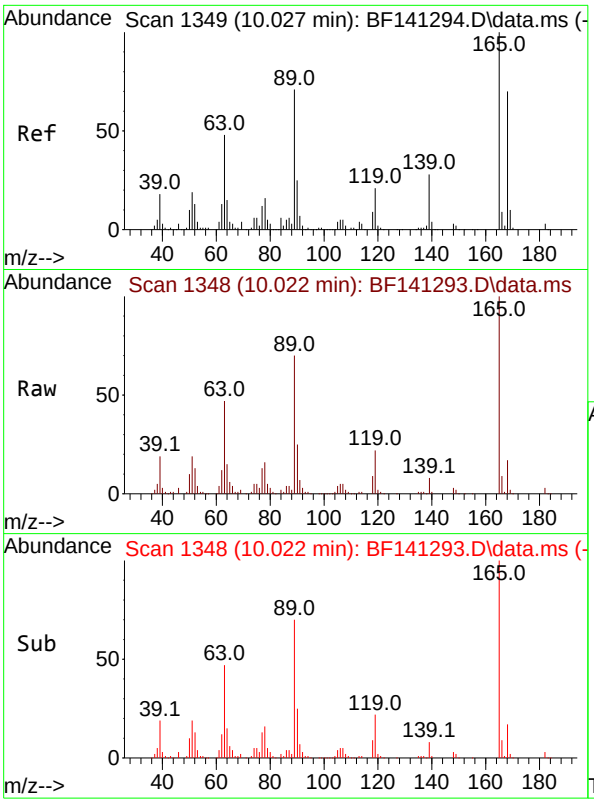


#56
4-Nitrophenol
Concen: 22.607 ng
RT: 9.945 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:139 Resp: 73425

Ion	Ratio	Lower	Upper
139	100		
109	67.7	50.2	90.2
65	97.5	80.6	120.6

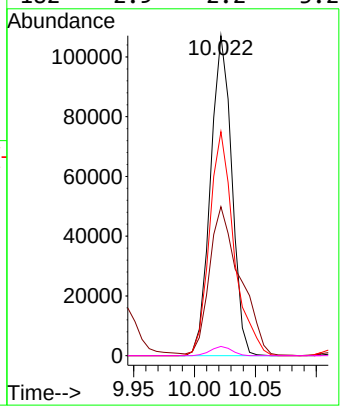




#57
2,4-Dinitrotoluene
Concen: 22.027 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:165 Resp: 12994

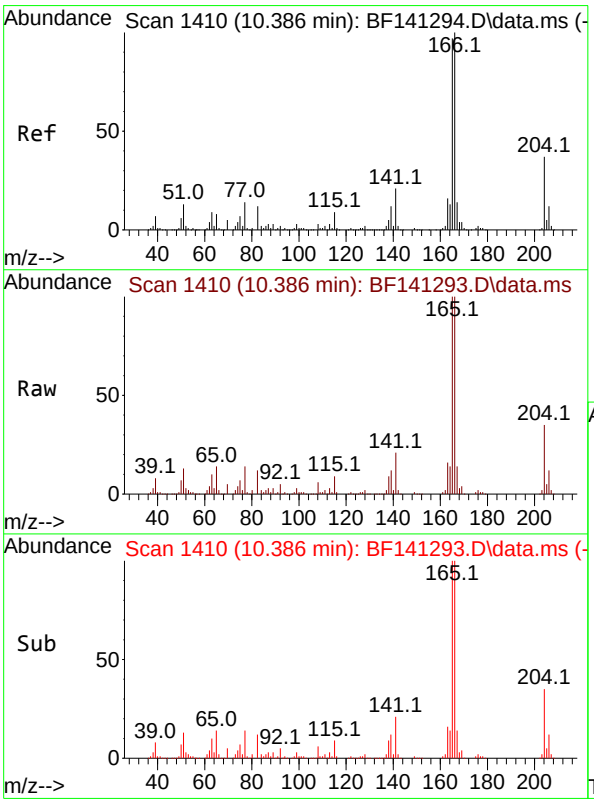
Ion	Ratio	Lower	Upper
165	100		
63	46.6	39.2	58.8
89	70.0	56.9	85.3
182	2.9	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

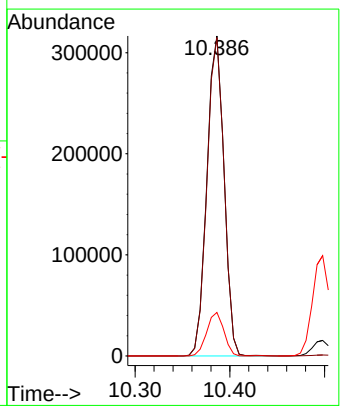
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

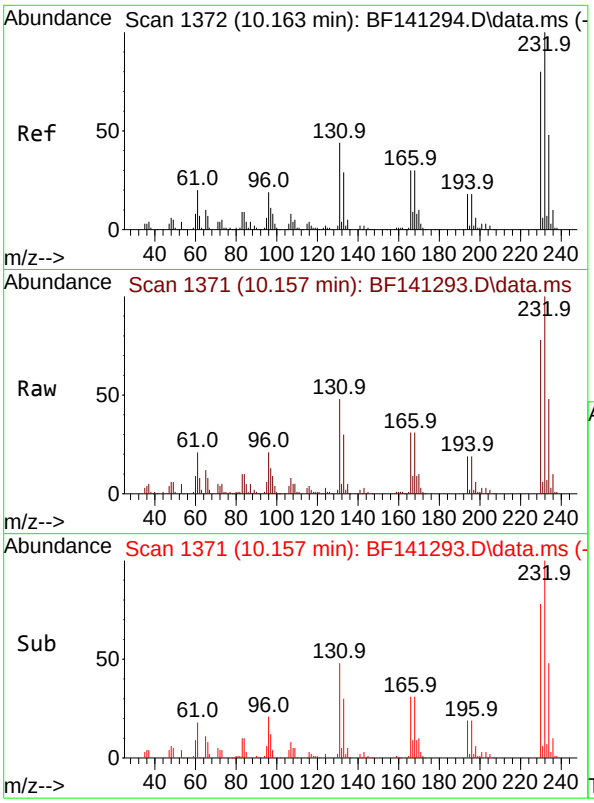


#58
Fluorene
Concen: 21.488 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:166 Resp: 396520

Ion	Ratio	Lower	Upper
166	100		
165	99.5	77.5	116.3
167	13.6	10.9	16.3

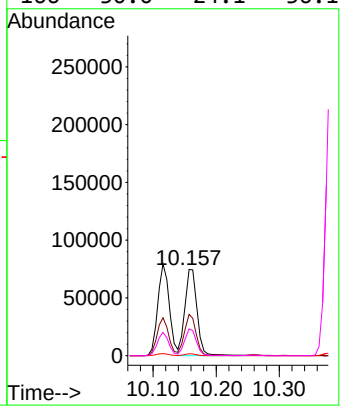




#59
2,3,4,6-Tetrachlorophenol
Concen: 21.354 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:232 Resp: 9984

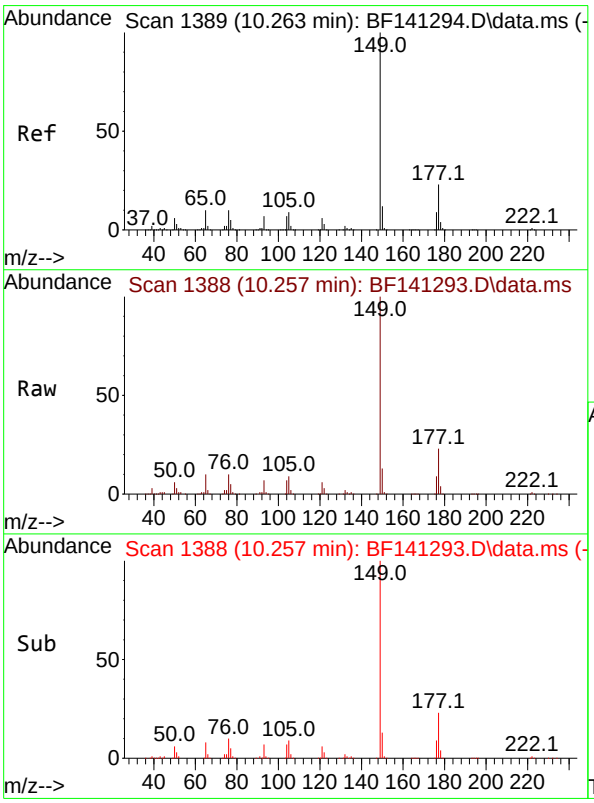
Ion	Ratio	Lower	Upper
232	100		
131	46.1	36.4	54.6
130	2.0	1.9	2.9
166	30.0	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

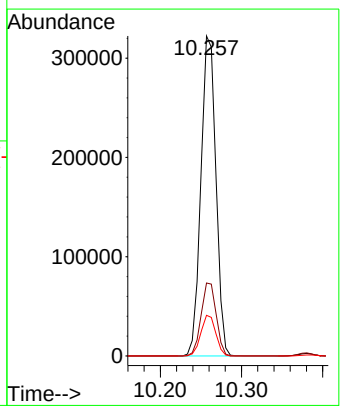
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

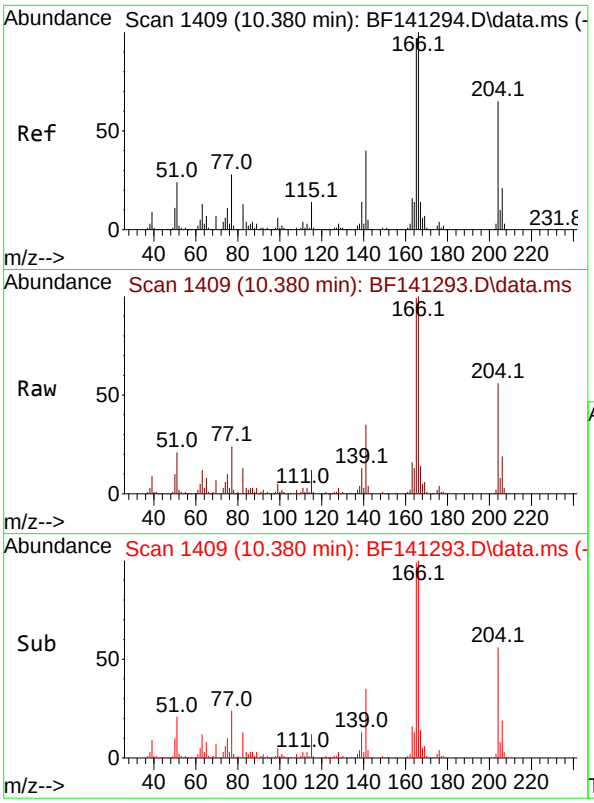


#60
Diethylphthalate
Concen: 21.745 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:149 Resp: 413889

Ion	Ratio	Lower	Upper
149	100		
177	22.8	18.5	27.7
150	12.7	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 21.446 ng
RT: 10.380 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

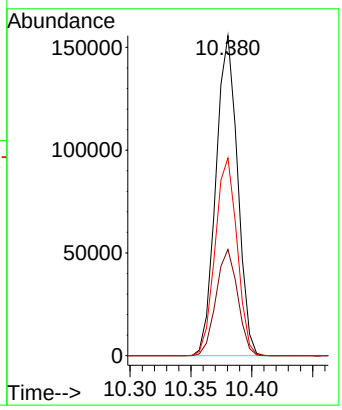
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

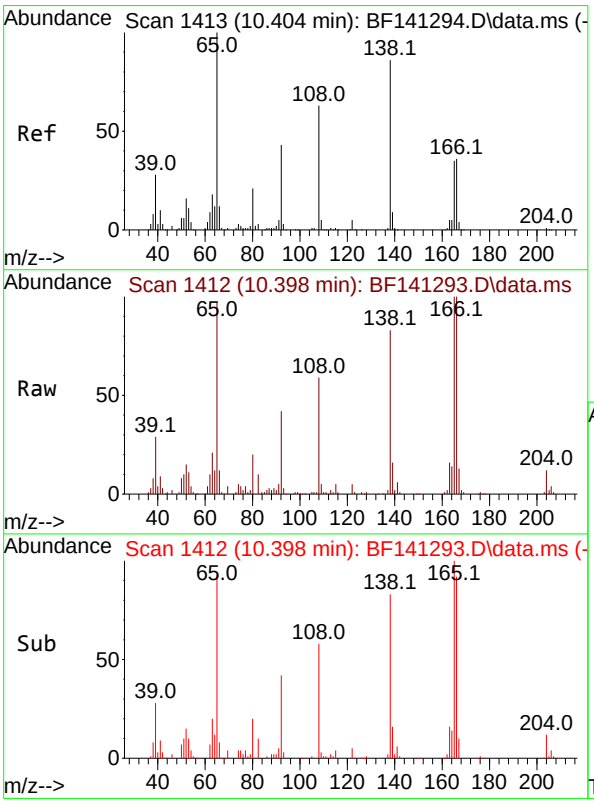
Tgt Ion:204 Resp: 19313

Ion	Ratio	Lower	Upper
204	100		
206	33.2	25.9	38.9
141	61.8	49.5	74.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

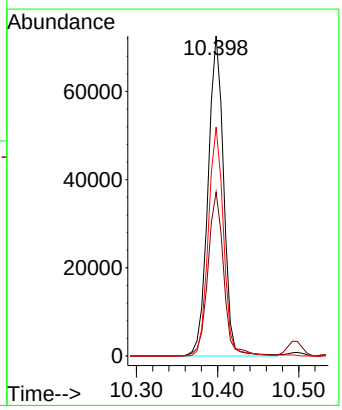


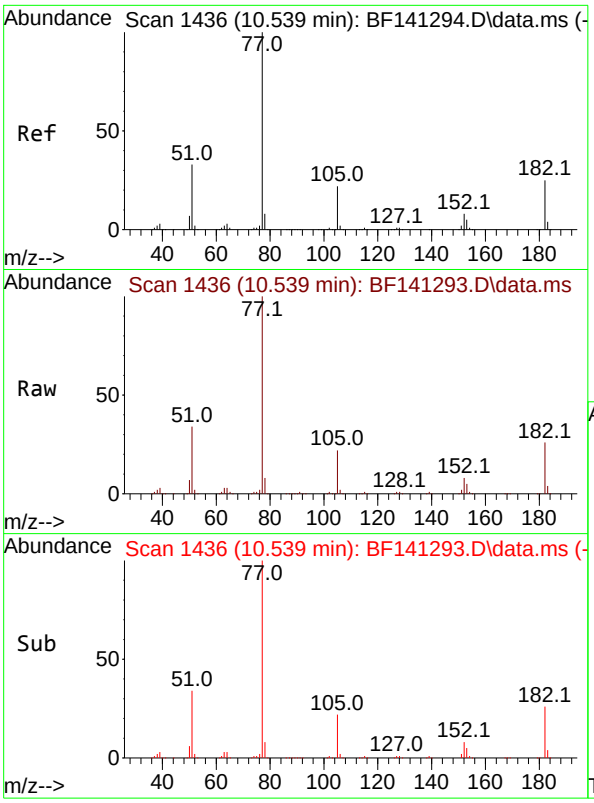


#62
4-Nitroaniline
Concen: 22.250 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:138 Resp: 96692

Ion	Ratio	Lower	Upper
138	100		
92	51.2	30.1	70.1
108	71.5	53.1	93.1





#63
Azobenzene
Concen: 21.358 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

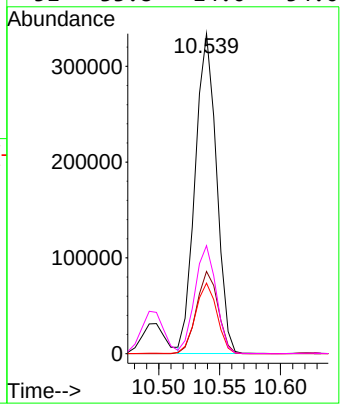
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

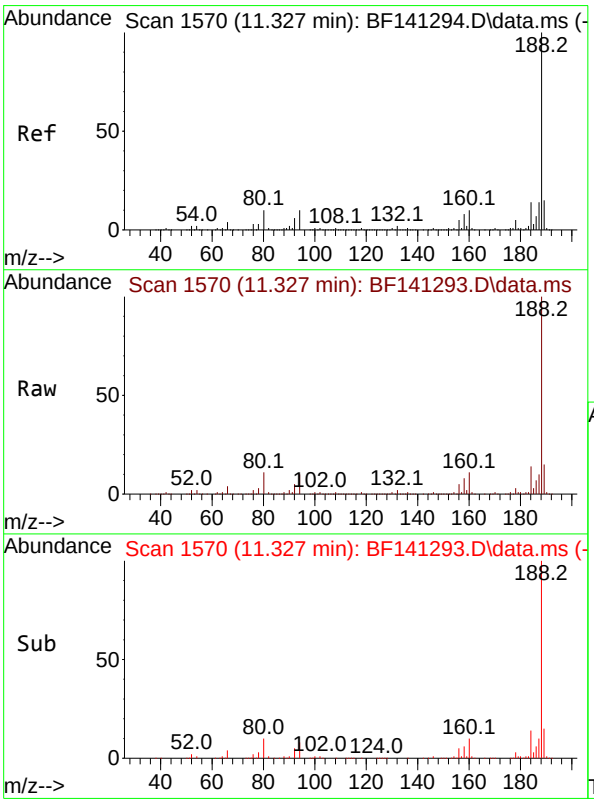
Tgt Ion: 77 Resp: 40749

Ion	Ratio	Lower	Upper
77	100		
182	25.7	5.1	45.1
105	22.1	1.8	41.8
51	33.8	14.0	54.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

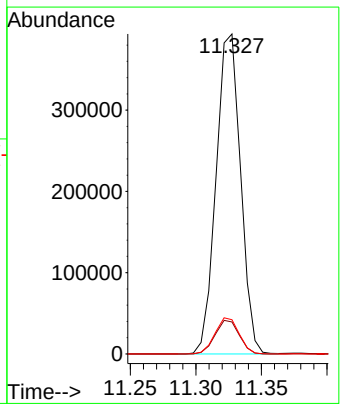


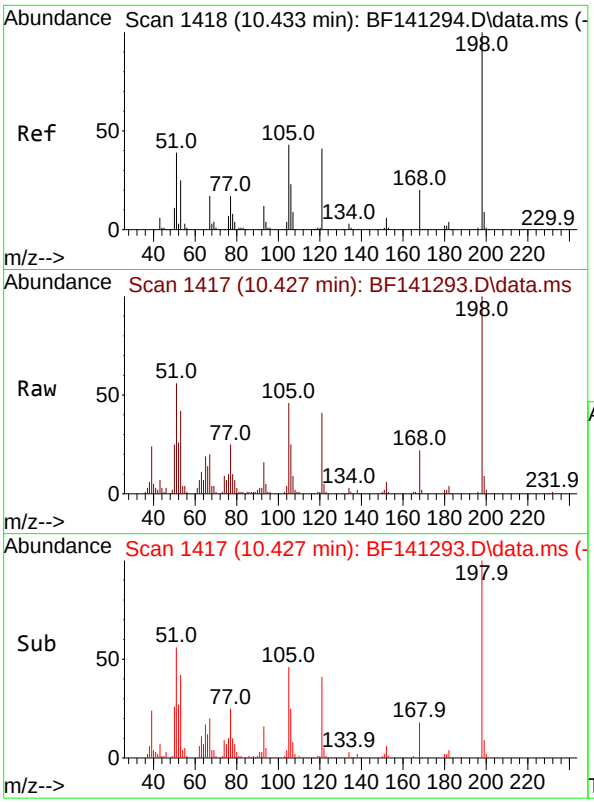


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:188 Resp: 511320

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.8	11.6
80	10.7	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 20.492 ng
RT: 10.427 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

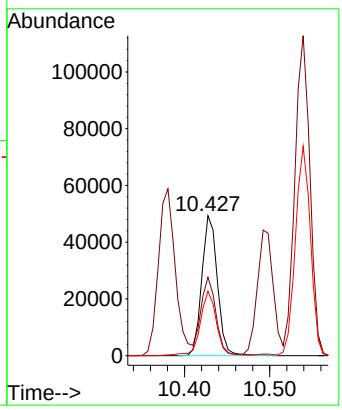
Tgt Ion:198 Resp: 6257

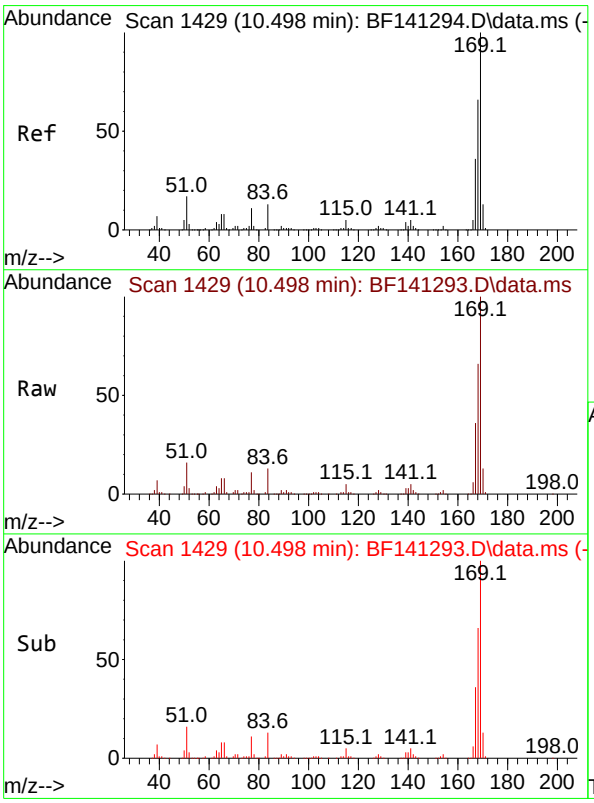
Ion	Ratio	Lower	Upper
198	100		
51	56.0	33.4	73.4
105	45.9	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

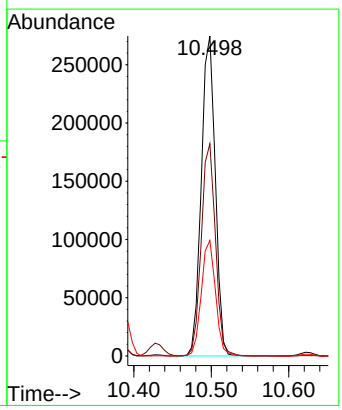


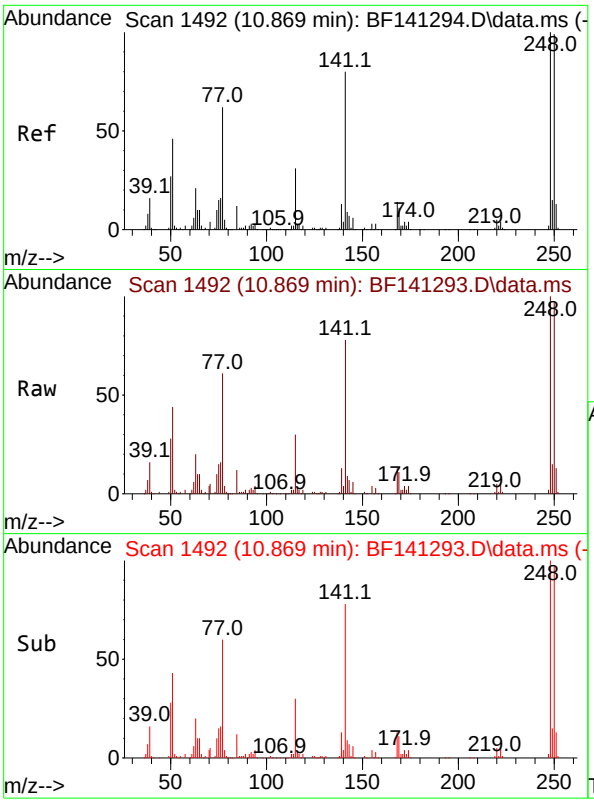


#66
n-Nitrosodiphenylamine
Concen: 20.773 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:169 Resp: 344387

Ion	Ratio	Lower	Upper
169	100		
168	66.3	53.0	79.4
167	36.1	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 20.967 ng
RT: 10.869 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

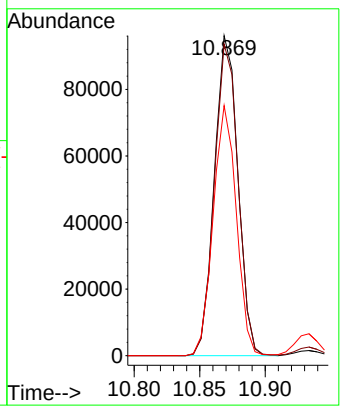
Instrument :
BNA_F
ClientSampleId :
SSTDICC020

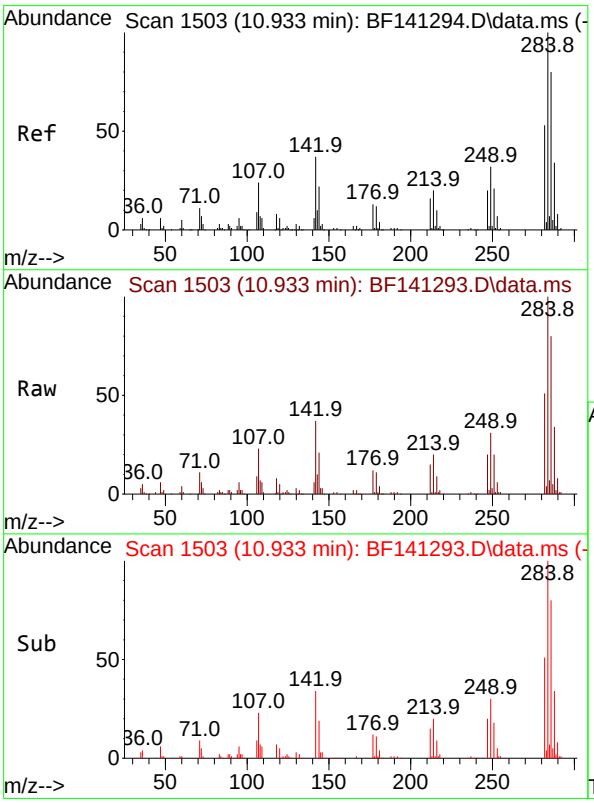
Tgt Ion:248 Resp: 11984

Ion	Ratio	Lower	Upper
248	100		
250	97.3	79.0	118.4
141	78.1	63.7	95.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

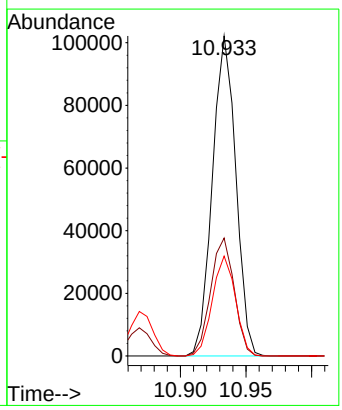


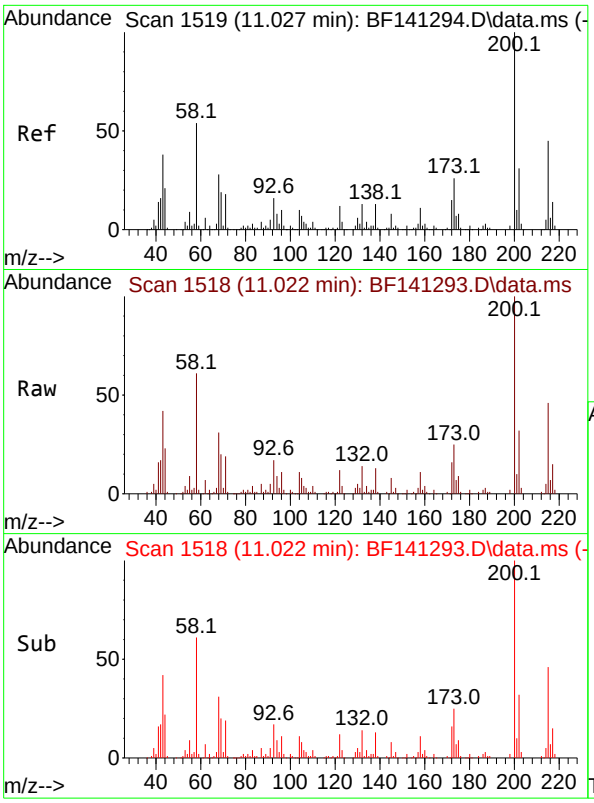


#68
Hexachlorobenzene
Concen: 20.917 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:284 Resp: 126823

Ion	Ratio	Lower	Upper
284	100		
142	36.8	29.5	44.3
249	31.2	25.4	38.2

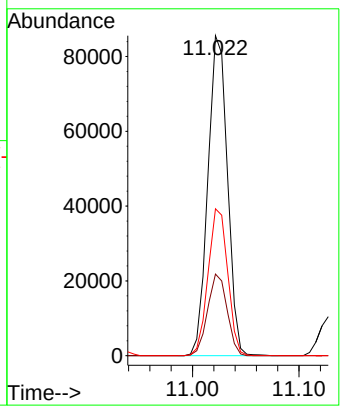




#69
Atrazine
Concen: 19.627 ng
RT: 11.022 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:200 Resp: 10913

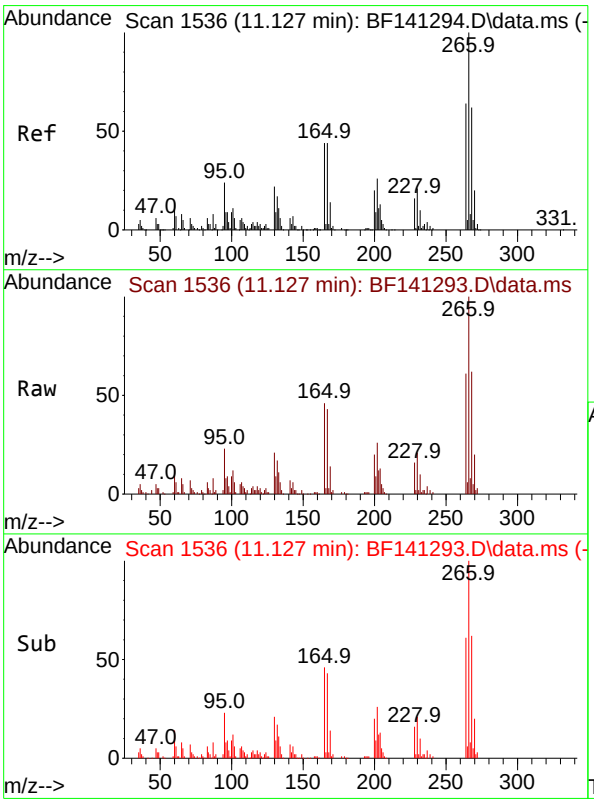
Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.9	45.9
215	45.9	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

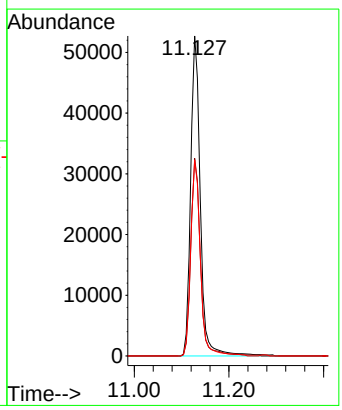
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

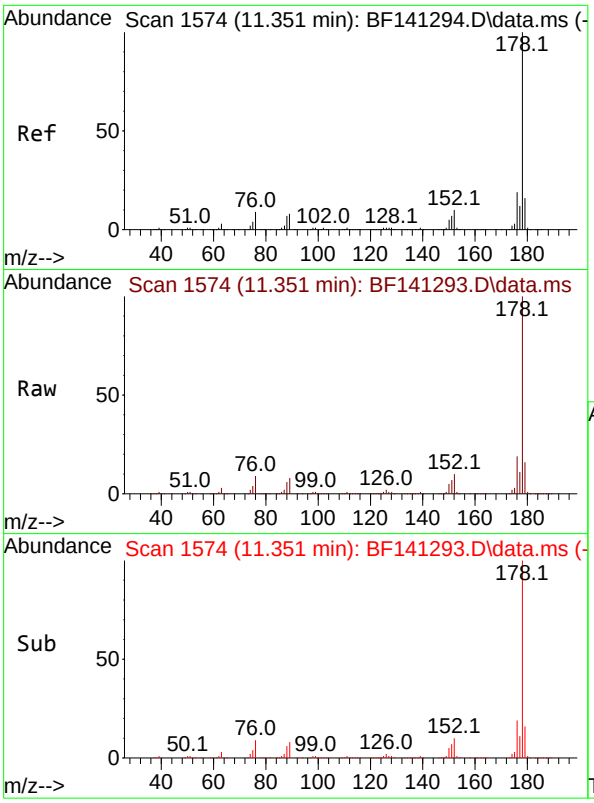


#70
Pentachlorophenol
Concen: 20.958 ng
RT: 11.127 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:266 Resp: 74508

Ion	Ratio	Lower	Upper
266	100		
268	61.8	49.9	74.9
264	61.2	51.0	76.4

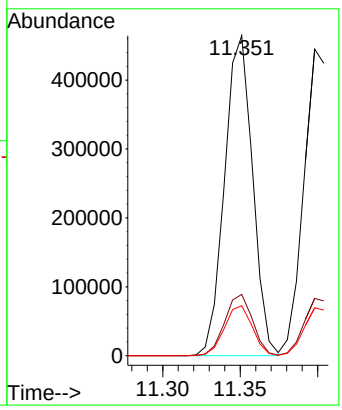




#71
Phenanthrene
Concen: 21.262 ng
RT: 11.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:178 Resp: 58402

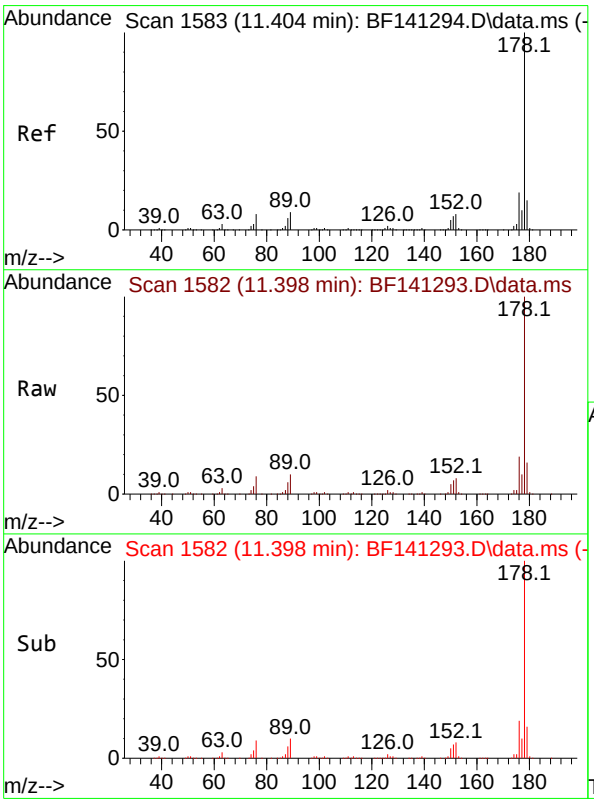
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

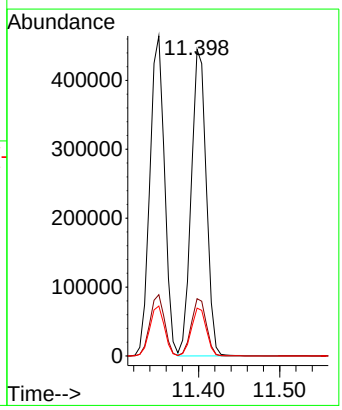
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

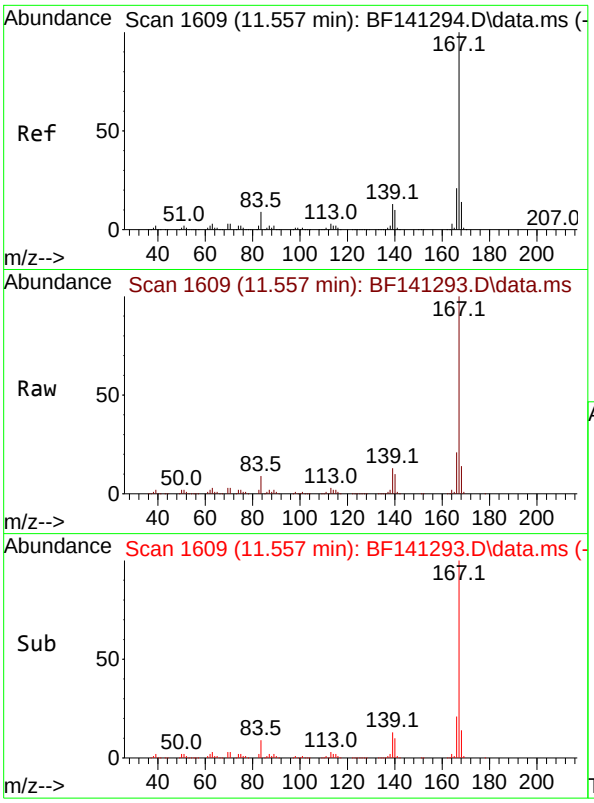


#72
Anthracene
Concen: 21.377 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:178 Resp: 572743

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.6	12.3	18.5

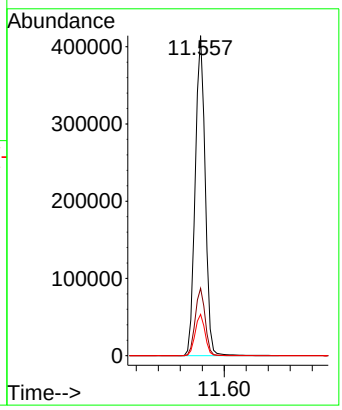




#73
Carbazole
Concen: 22.000 ng
RT: 11.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:167 Resp: 52210

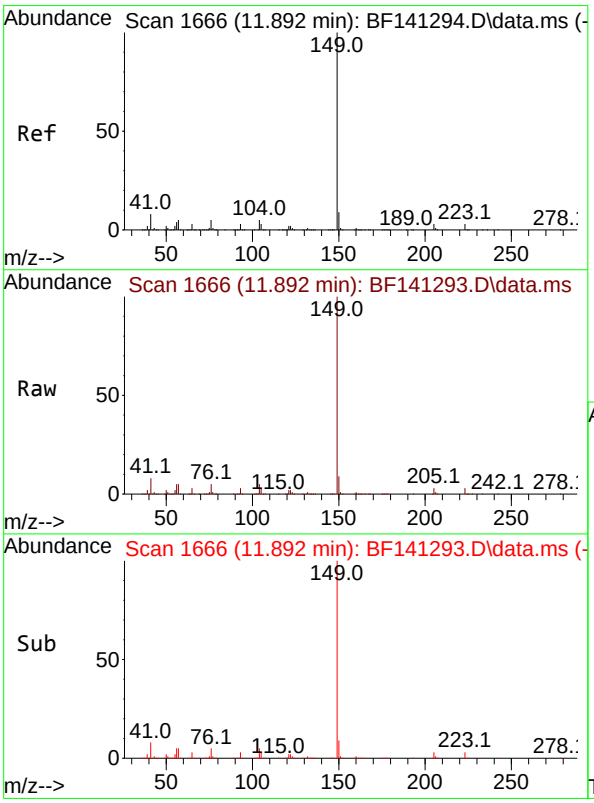
Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.6
139	12.9	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

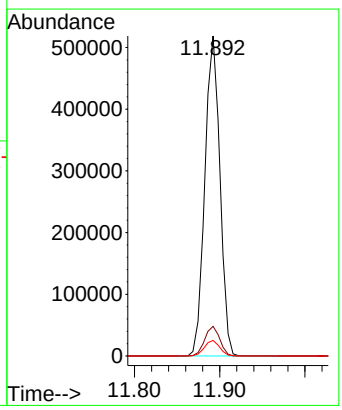
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

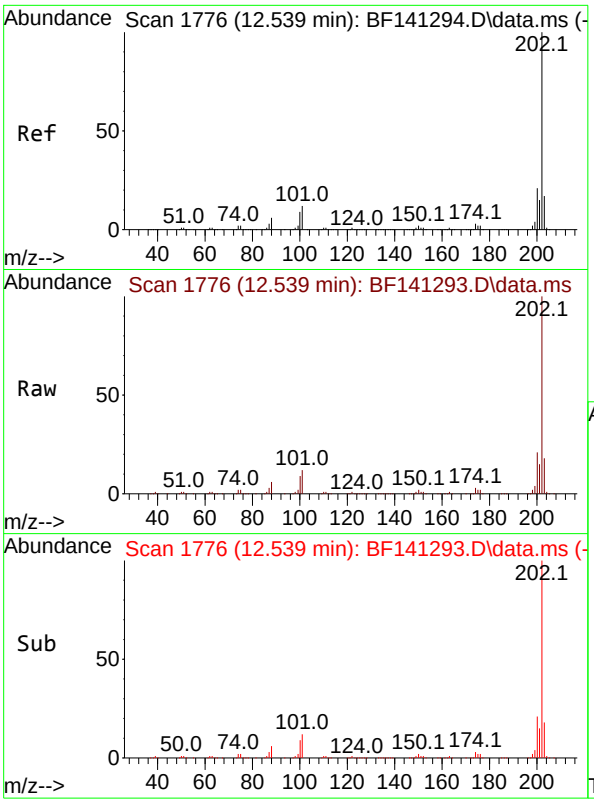


#74
Di-n-butylphthalate
Concen: 22.251 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:149 Resp: 636521

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.8	3.9	5.9

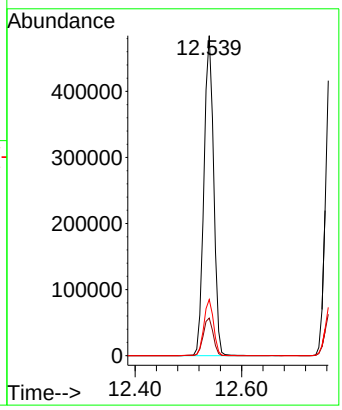




#75
Fluoranthene
Concen: 22.808 ng
RT: 12.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:202 Resp: 61149

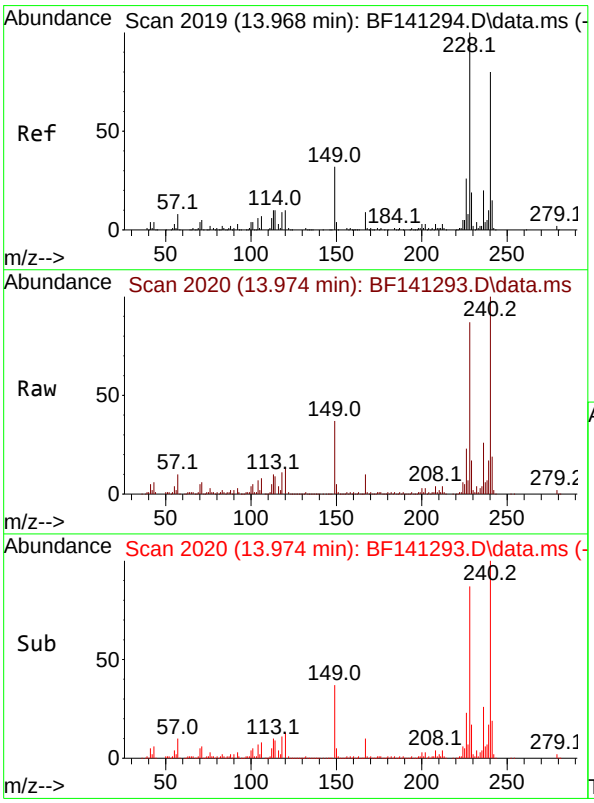
Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.7
203	17.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

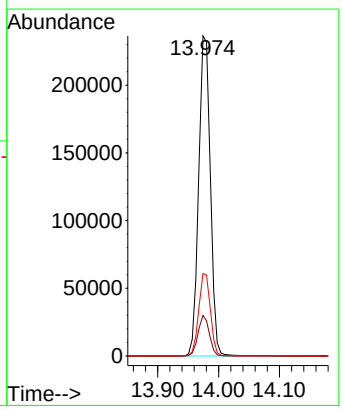
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

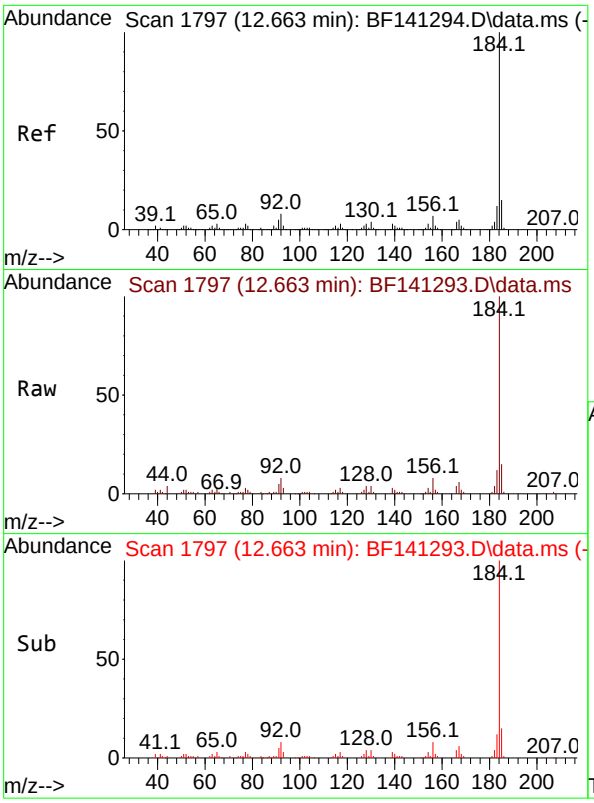


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:240 Resp: 314234

Ion	Ratio	Lower	Upper
240	100		
120	12.7	10.0	15.0
236	25.8	19.7	29.5

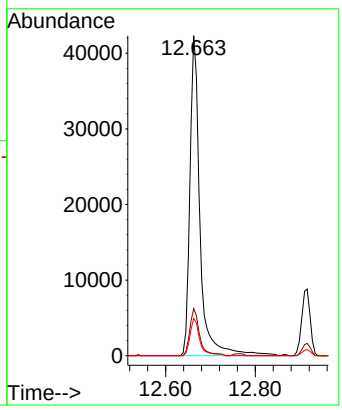




#77
Benzidine
Concen: 6.904 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:184 Resp: 6596

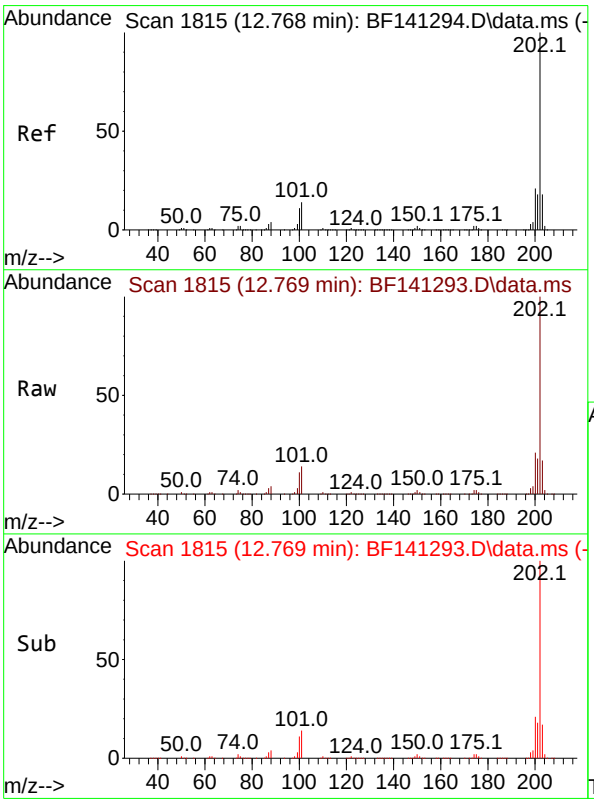
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.9	17.9
183	11.7	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

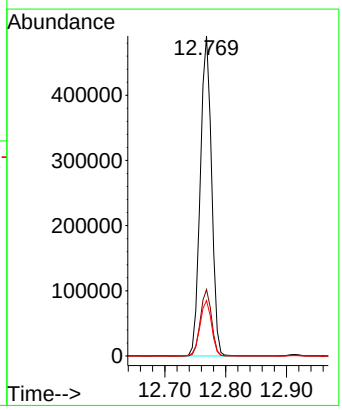
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

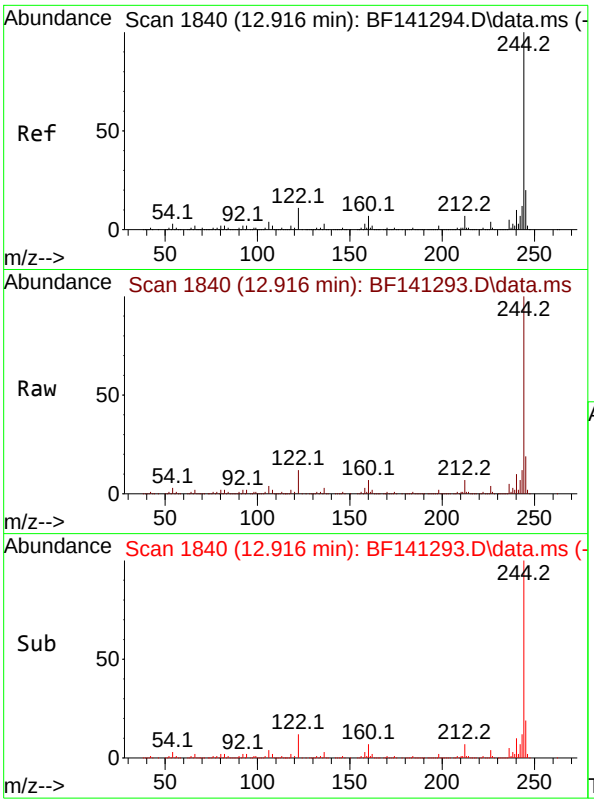


#78
Pyrene
Concen: 20.739 ng
RT: 12.769 min Scan# 1815
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:202 Resp: 629228

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.3	14.3	21.5

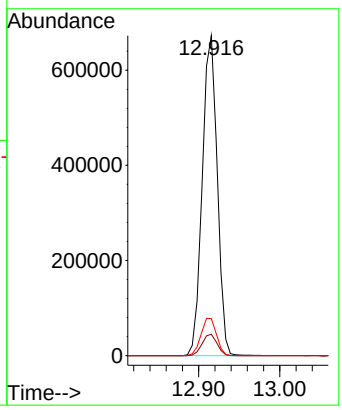




#79
Terphenyl-d14
Concen: 42.159 ng
RT: 12.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:244 Resp: 86095

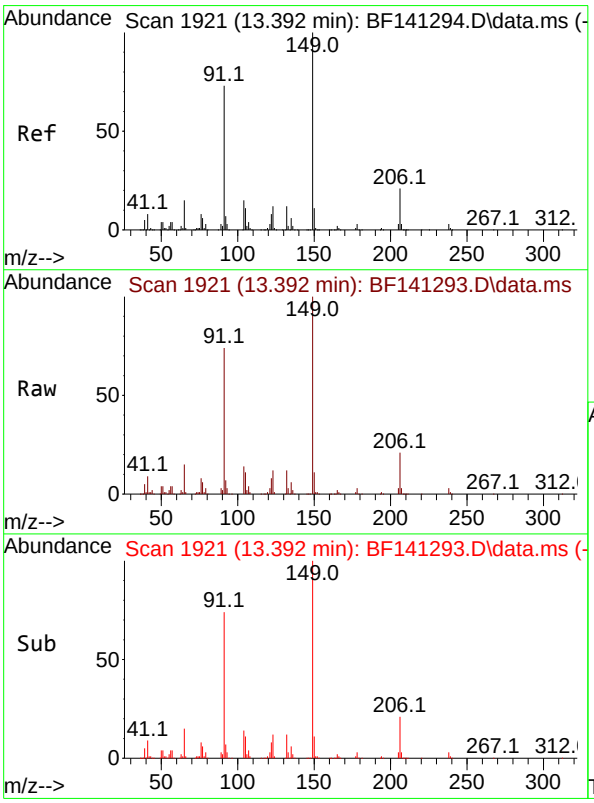
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.6	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

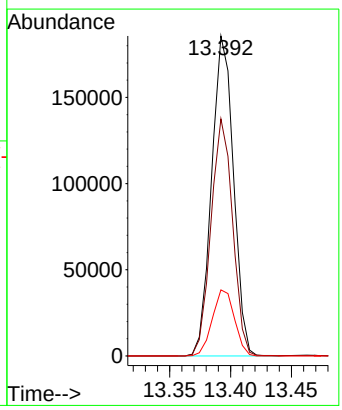
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

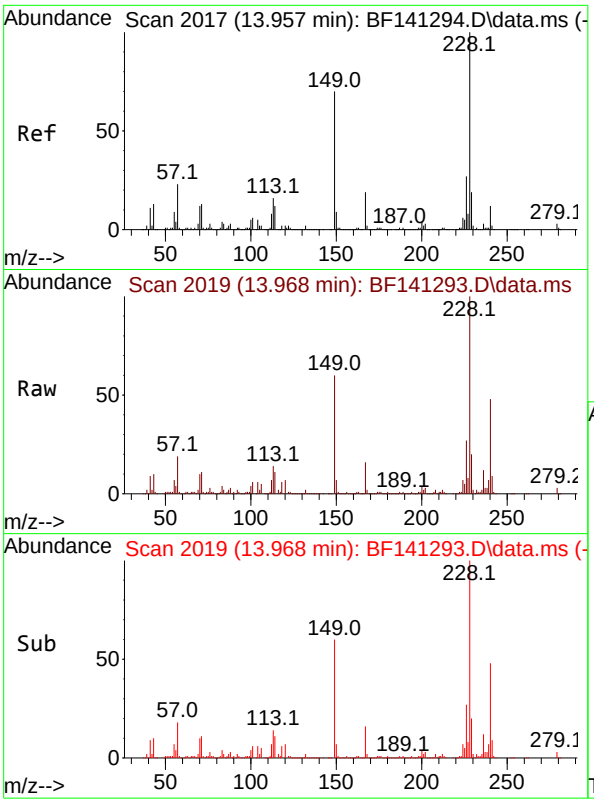


#80
Butylbenzylphthalate
Concen: 22.149 ng
RT: 13.392 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:149 Resp: 232095

Ion	Ratio	Lower	Upper
149	100		
91	74.1	58.6	87.8
206	20.7	16.7	25.1

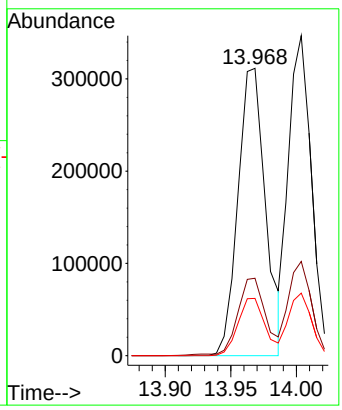




#81
Benzo(a)anthracene
Concen: 21.197 ng
RT: 13.968 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:228 Resp: 45653

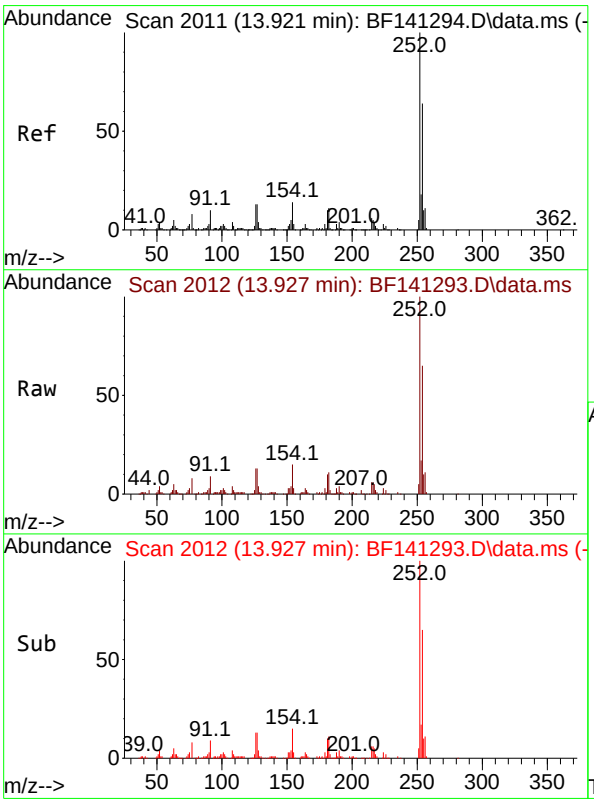
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.2
229	19.9	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

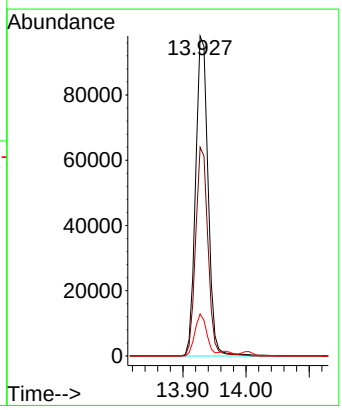
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

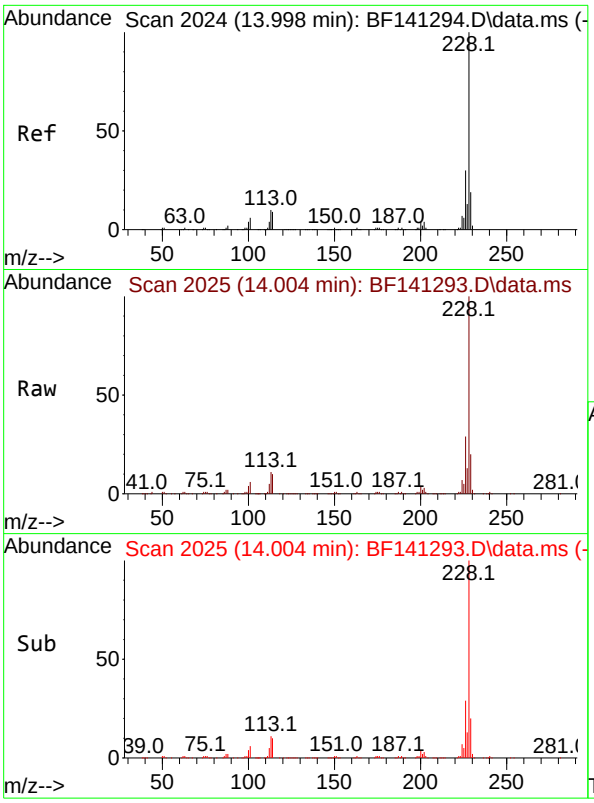


#82
3,3'-Dichlorobenzidine
Concen: 19.914 ng
RT: 13.927 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:252 Resp: 134298

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.3	76.9
126	13.2	10.0	15.0





#83
Chrysene
Concen: 21.122 ng
RT: 14.004 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

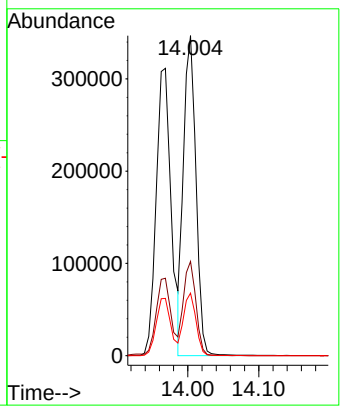
Tgt Ion:228 Resp: 42184(

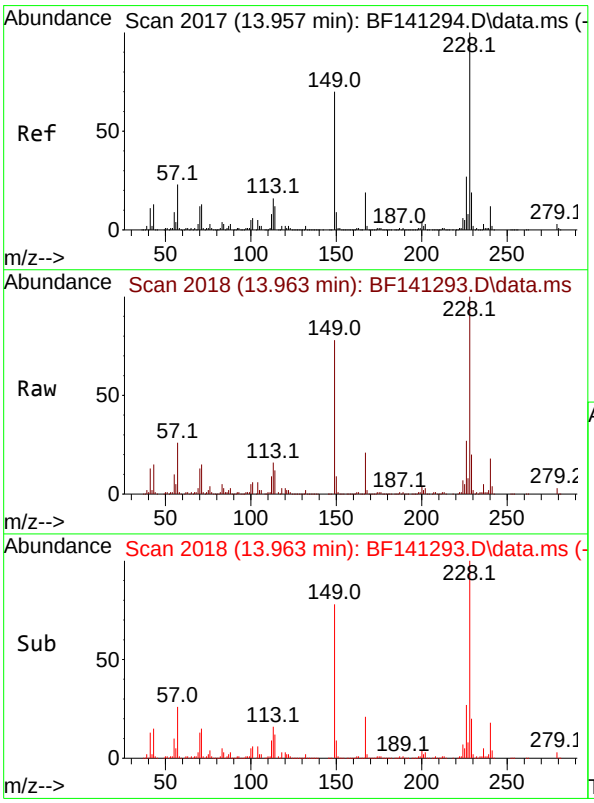
Ion	Ratio	Lower	Upper
228	100		
226	29.4	24.1	36.1
229	19.5	15.6	23.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

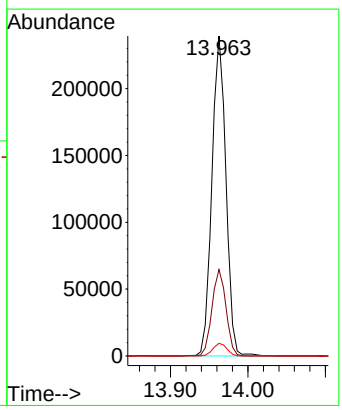


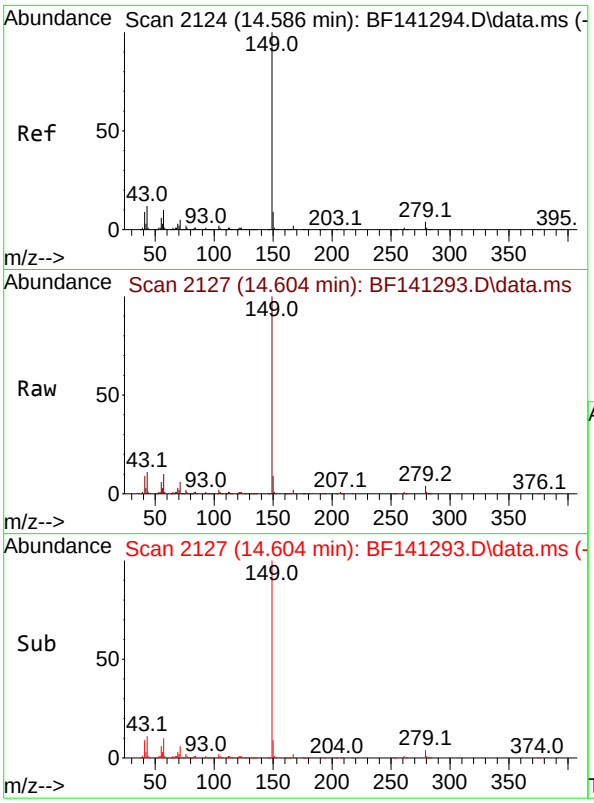


#84
Bis(2-ethylhexyl)phthalate
Concen: 22.857 ng
RT: 13.963 min Scan# 2018
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:149 Resp: 300546

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.8	32.8
279	3.9	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 21.964 ng
RT: 14.604 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

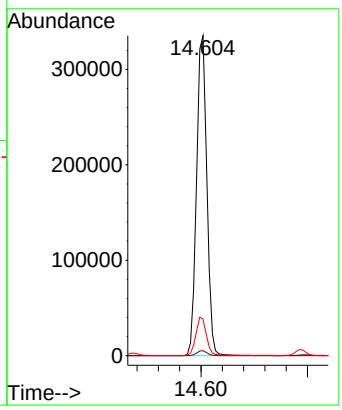
Tgt Ion:149 Resp: 45174

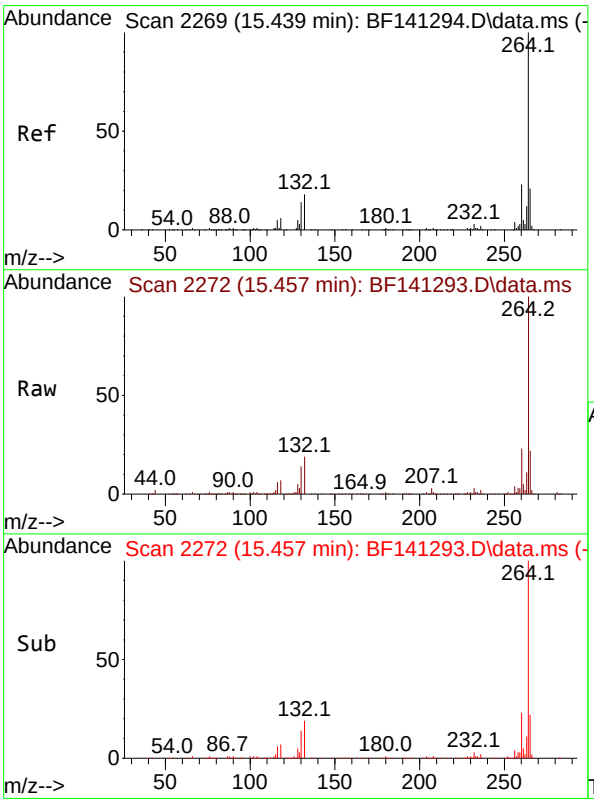
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.4	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

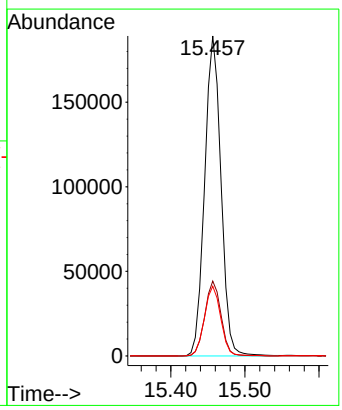


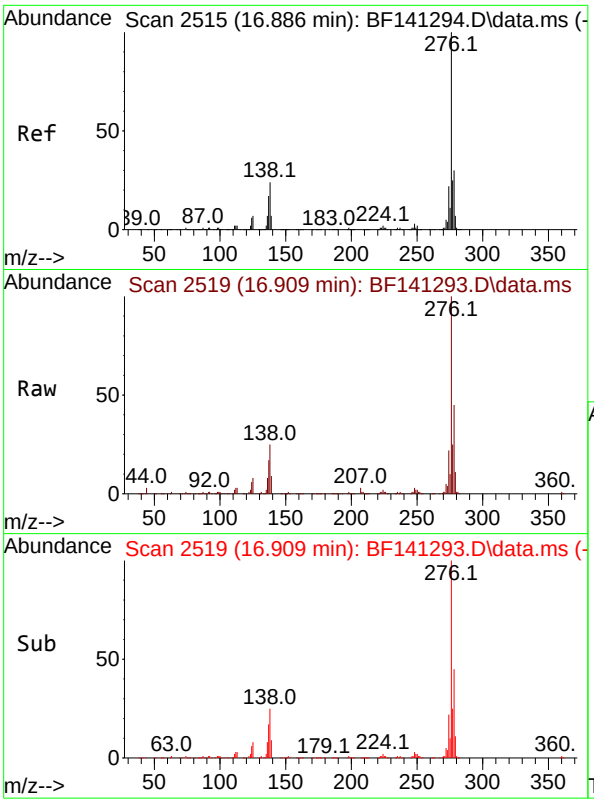


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:264 Resp: 289582

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.6	27.8
265	21.8	16.7	25.1

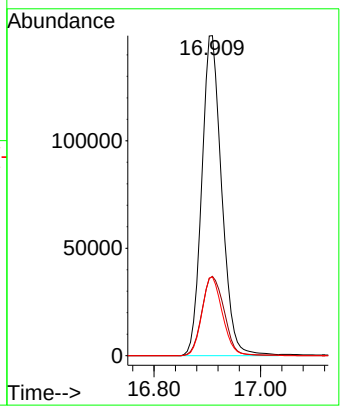




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.466 ng
RT: 16.909 min Scan# 2
Delta R.T. 0.024 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:276 Resp: 38708

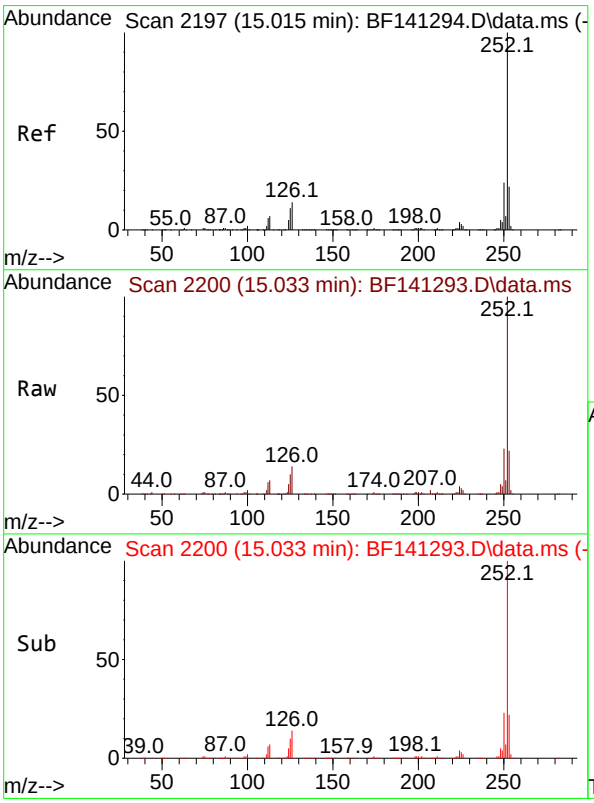
Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.7	32.5
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

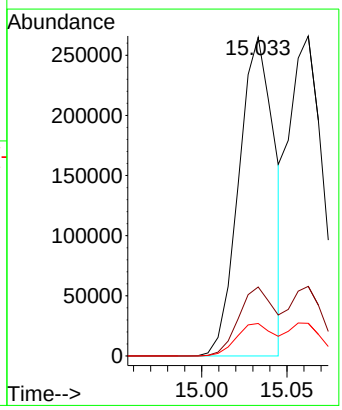
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

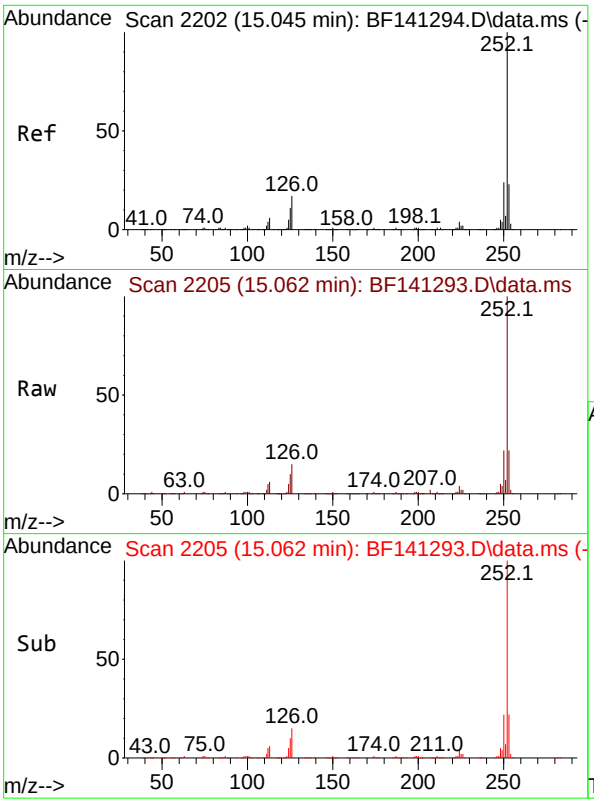


#88
Benzo(b)fluoranthene
Concen: 21.383 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:252 Resp: 384557

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.4	26.2
125	10.2	8.6	12.8





#89
Benzo(k)fluoranthene
Concen: 22.900 ng
RT: 15.062 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

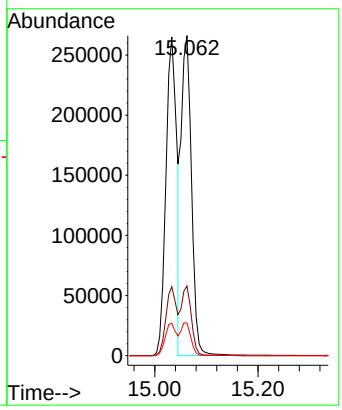
Tgt Ion:252 Resp: 36880

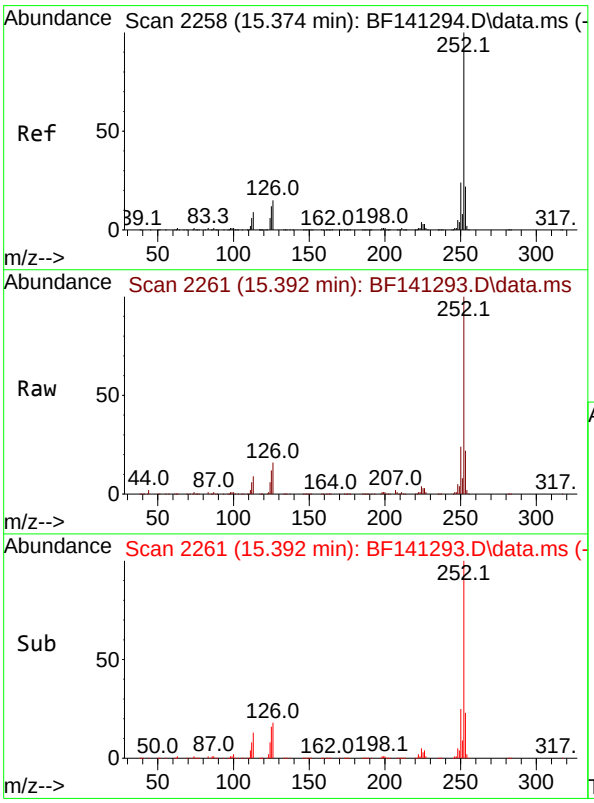
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	10.2	8.4	12.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

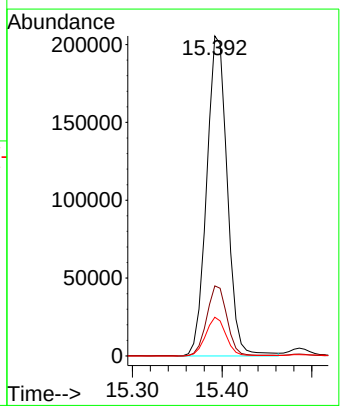


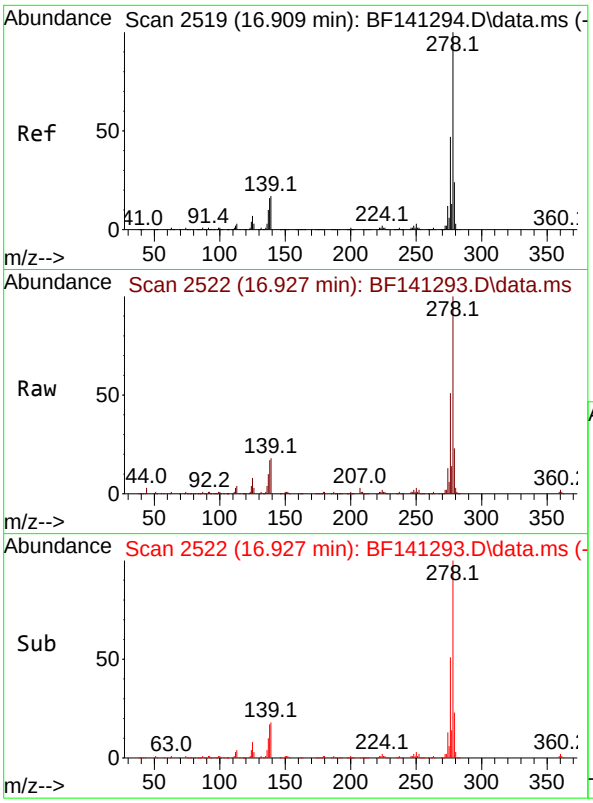


#90
Benzo(a)pyrene
Concen: 21.317 ng
RT: 15.392 min Scan# 2261
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:252 Resp: 327630

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.2	25.8
125	12.1	9.4	14.2

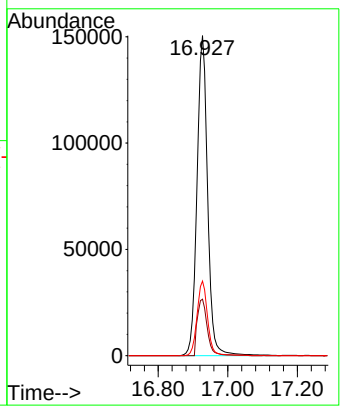




#91
Dibenzo(a,h)anthracene
Concen: 21.026 ng
RT: 16.927 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:278 Resp: 31877

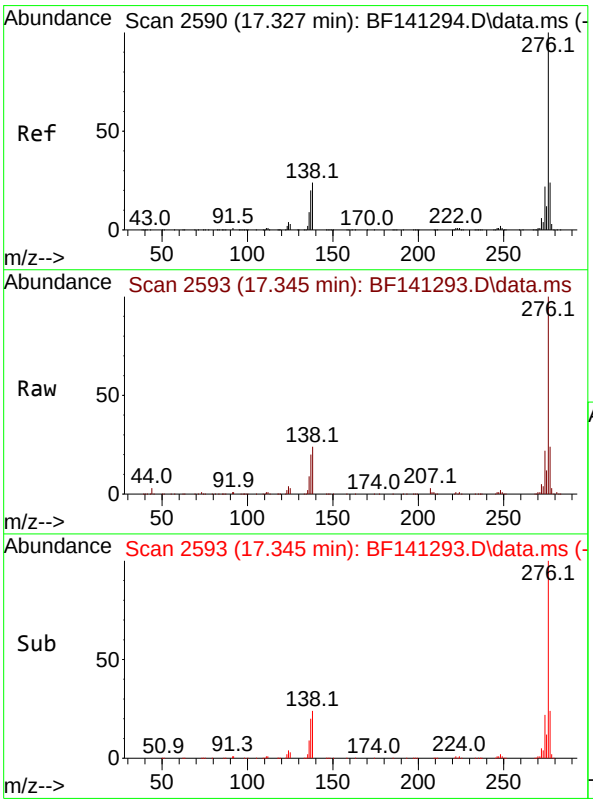
Ion	Ratio	Lower	Upper
278	100		
139	17.7	13.9	20.9
279	23.3	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

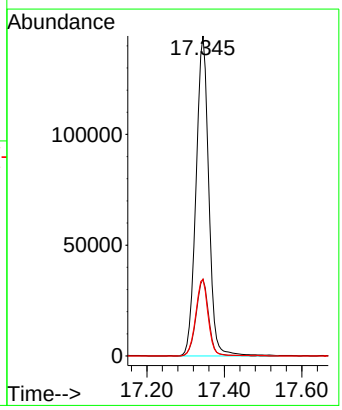
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 20.684 ng
RT: 17.345 min Scan# 2593
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:276 Resp: 329876

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	23.9	19.0	28.4



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141294.D
Acq On : 29 Jan 2025 15:45
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 29 16:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	136511	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	533326	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	282995	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	458392	20.000	ng	0.00
76) Chrysene-d12	13.968	240	260600	20.000	ng	0.00
86) Perylene-d12	15.439	264	279417	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	655671	74.279	ng	0.00
7) Phenol-d6	6.428	99	829746	73.753	ng	0.00
23) Nitrobenzene-d5	7.363	82	755539	74.958	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	195693	75.888	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1339709	73.029	ng	0.00
79) Terphenyl-d14	12.916	244	1232977	72.802	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.487	88	146751	37.453	ng	100
3) Pyridine	3.216	79	360381	38.457	ng	100
4) n-Nitrosodimethylamine	3.169	42	205026	38.203	ng	100
6) Aniline	6.463	93	371145	39.471	ng	100
8) 2-Chlorophenol	6.581	128	354141	37.357	ng	100
9) Benzaldehyde	6.345	77	244365	37.402	ng	100
10) Phenol	6.439	94	448441	37.678	ng	100
11) bis(2-Chloroethyl)ether	6.534	93	336429	36.754	ng	100
12) 1,3-Dichlorobenzene	6.739	146	390276	37.328	ng	100
13) 1,4-Dichlorobenzene	6.816	146	390834	37.119	ng	100
14) 1,2-Dichlorobenzene	6.969	146	365173	37.114	ng	100
15) Benzyl Alcohol	6.939	79	295478	38.445	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	597590	37.578	ng	100
17) 2-Methylphenol	7.051	107	284578	37.077	ng	100
18) Hexachloroethane	7.310	117	144619	37.124	ng	100
19) n-Nitroso-di-n-propyla...	7.210	70	244379	36.524	ng	100
20) 3+4-Methylphenols	7.204	107	351248	37.222	ng	100
22) Acetophenone	7.210	105	465165	36.793	ng	100
24) Nitrobenzene	7.381	77	396149	37.893	ng	100
25) Isophorone	7.622	82	651994	37.429	ng	100
26) 2-Nitrophenol	7.698	139	188435	38.483	ng	100
27) 2,4-Dimethylphenol	7.733	122	239376	38.255	ng	100
28) bis(2-Chloroethoxy)met...	7.833	93	414781	37.367	ng	100
29) 2,4-Dichlorophenol	7.939	162	288763	37.768	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	323865	36.932	ng	100
31) Naphthalene	8.104	128	1041107	37.116	ng	100
32) Benzoic acid	7.845	122	235596	41.459	ng	100
33) 4-Chloroaniline	8.151	127	361001	38.313	ng	100
34) Hexachlorobutadiene	8.222	225	190772	37.169	ng	100
35) Caprolactam	8.516	113	94819	38.342	ng	100
36) 4-Chloro-3-methylphenol	8.633	107	305768	37.262	ng	100
37) 2-Methylnaphthalene	8.792	142	666038	37.286	ng	100
38) 1-Methylnaphthalene	8.892	142	646346	36.938	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	302471	37.591	ng	100
41) Hexachlorocyclopentadiene	8.945	237	97299	40.295	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	205797	39.181	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141294.D
Acq On : 29 Jan 2025 15:45
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 29 16:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

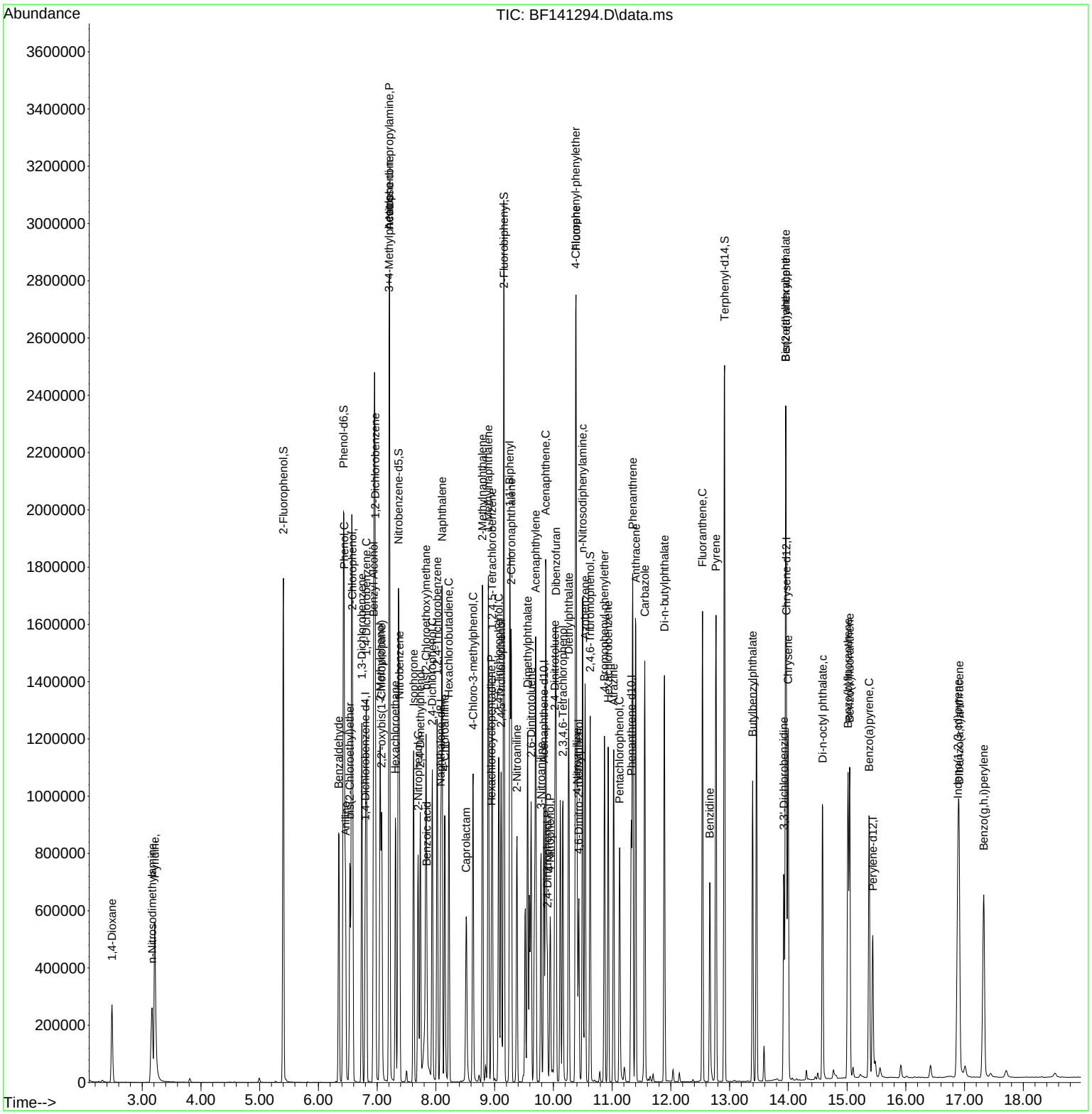
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	213401	37.346	ng	100
46) 1,1'-Biphenyl	9.257	154	823004	37.278	ng	100
47) 2-Chloronaphthalene	9.280	162	634814	37.020	ng	100
48) 2-Nitroaniline	9.380	65	205997	38.089	ng	100
49) Acenaphthylene	9.698	152	902715	37.483	ng	100
50) Dimethylphthalate	9.563	163	701107	36.945	ng	100
51) 2,6-Dinitrotoluene	9.622	165	167409	37.909	ng	100
52) Acenaphthene	9.869	154	638597	37.266	ng	100
53) 3-Nitroaniline	9.792	138	171409	39.240	ng	100
54) 2,4-Dinitrophenol	9.898	184	83282	40.011	ng	100
55) Dibenzofuran	10.045	168	859175	37.490	ng	100
56) 4-Nitrophenol	9.945	139	126536	40.349	ng	100
57) 2,4-Dinitrotoluene	10.027	165	218627	38.382	ng	100
58) Fluorene	10.386	166	660612	37.076	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	172174	38.138	ng	100
60) Diethylphthalate	10.263	149	693066	37.710	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	321112	36.929	ng	100
62) 4-Nitroaniline	10.404	138	164154	39.120	ng	100
63) Azobenzene	10.539	77	693050	37.621	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	114735	41.914	ng	100
66) n-Nitrosodiphenylamine	10.498	169	573712	38.602	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	198895	38.815	ng	100
68) Hexachlorobenzene	10.933	284	209735	38.586	ng	100
69) Atrazine	11.027	200	195062	39.131	ng	100
70) Pentachlorophenol	11.127	266	131295	41.196	ng	100
71) Phenanthrene	11.351	178	940021	38.175	ng	100
72) Anthracene	11.404	178	925244	38.521	ng	100
73) Carbazole	11.557	167	824095	38.735	ng	100
74) Di-n-butylphthalate	11.892	149	995172	38.805	ng	100
75) Fluoranthene	12.539	202	928946	38.650	ng	100
77) Benzidine	12.663	184	380623	48.034	ng	100
78) Pyrene	12.768	202	914205	36.333	ng	100
80) Butylbenzylphthalate	13.392	149	326158	37.532	ng	100
81) Benzo(a)anthracene	13.957	228	661997	37.062	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	217856	38.953	ng	100
83) Chrysene	13.998	228	591939	35.738	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	409365	37.540	ng	100
85) Di-n-octyl phthalate	14.586	149	640977	37.578	ng	100
87) Indeno(1,2,3-cd)pyrene	16.886	276	702692	38.503	ng	100
88) Benzo(b)fluoranthene	15.015	252	625758	36.061	ng	100
89) Benzo(k)fluoranthene	15.045	252	605401	38.959	ng	100
90) Benzo(a)pyrene	15.374	252	564975	38.096	ng	100
91) Dibenzo(a,h)anthracene	16.909	278	567762	38.812	ng	100
92) Benzo(g,h,i)perylene	17.327	276	582768	37.870	ng	100

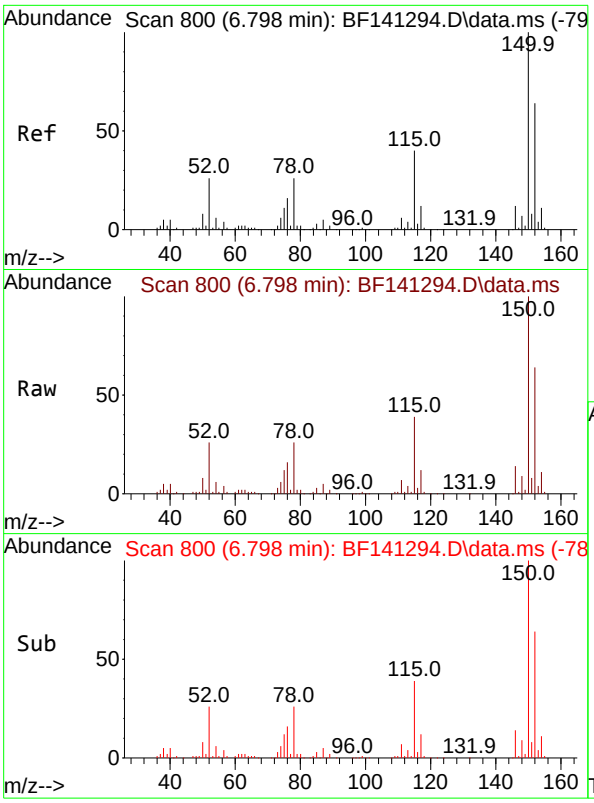
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141294.D
Acq On : 29 Jan 2025 15:45
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 29 16:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration



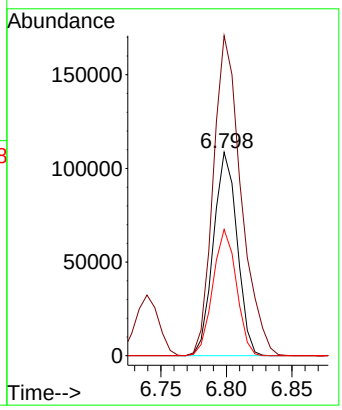


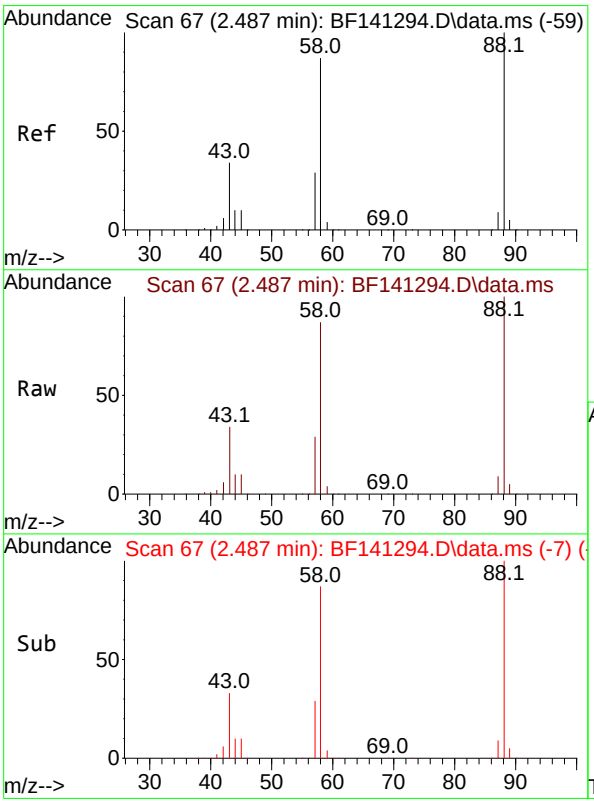
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 136511

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.9	188.9
115	62.1	49.7	74.5

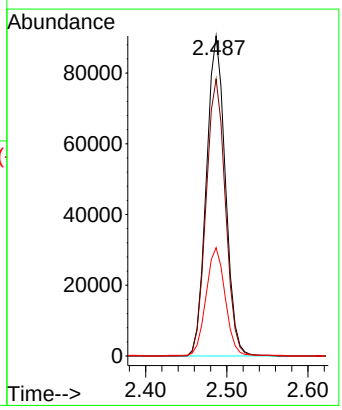


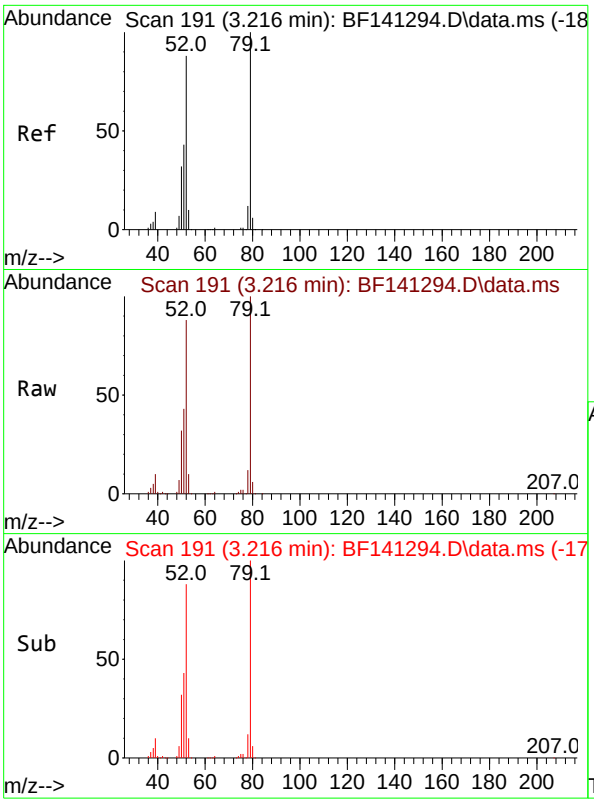


#2
1,4-Dioxane
Concen: 37.453 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 88 Resp: 146751

Ion	Ratio	Lower	Upper
88	100		
58	87.8	70.2	105.4
43	34.5	27.6	41.4



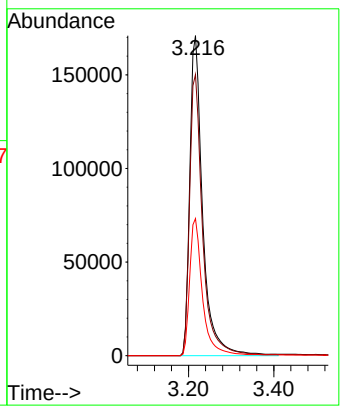


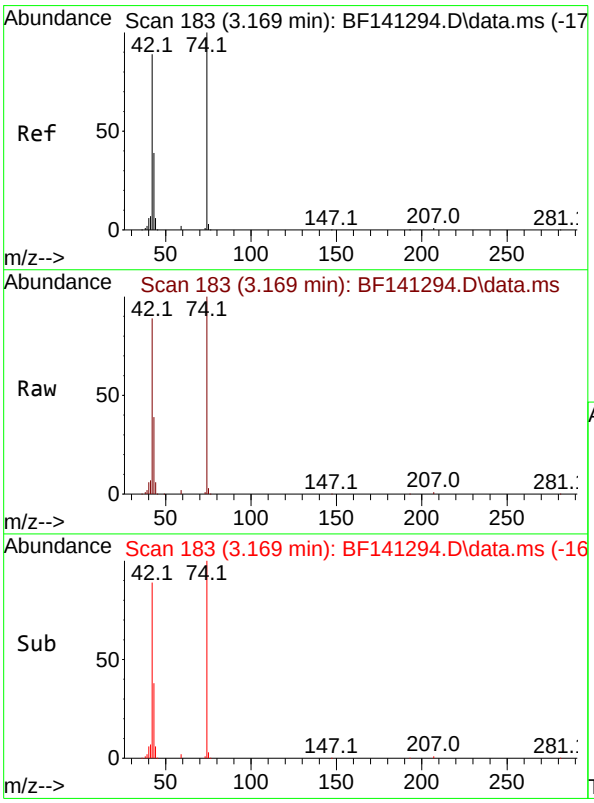
#3
Pyridine
Concen: 38.457 ng
RT: 3.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 360381

Ion	Ratio	Lower	Upper
79	100		
52	87.9	70.3	105.5
51	42.9	34.3	51.5

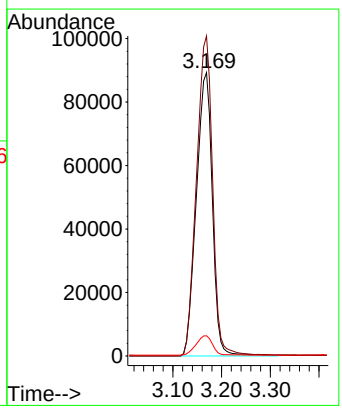


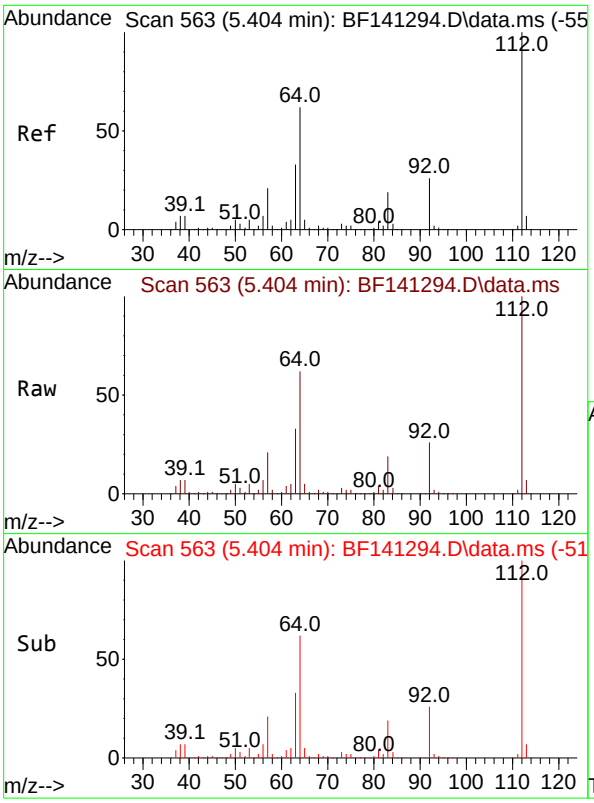


#4
n-Nitrosodimethylamine
Concen: 38.203 ng
RT: 3.169 min Scan# 183
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 42 Resp: 205026

Ion	Ratio	Lower	Upper
42	100		
74	112.9	90.3	135.5
44	7.1	5.7	8.5



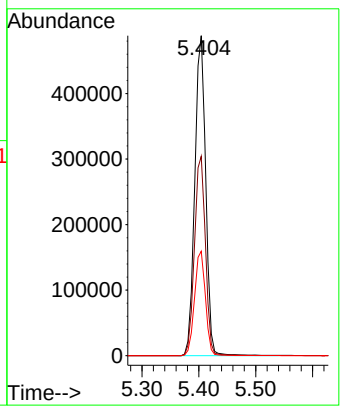


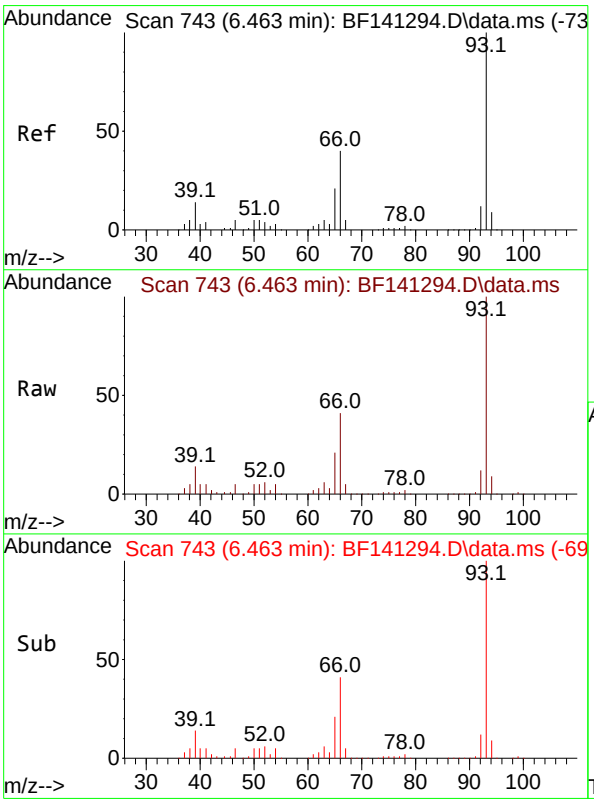
#5
2-Fluorophenol
Concen: 74.279 ng
RT: 5.404 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 655671

Ion	Ratio	Lower	Upper
112	100		
64	62.3	49.8	74.8
63	32.6	26.1	39.1

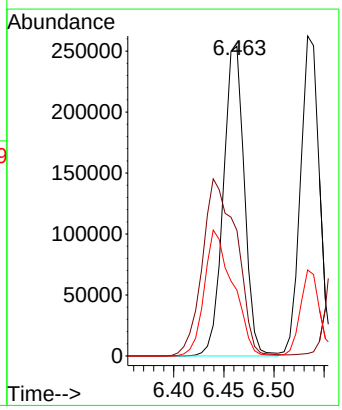


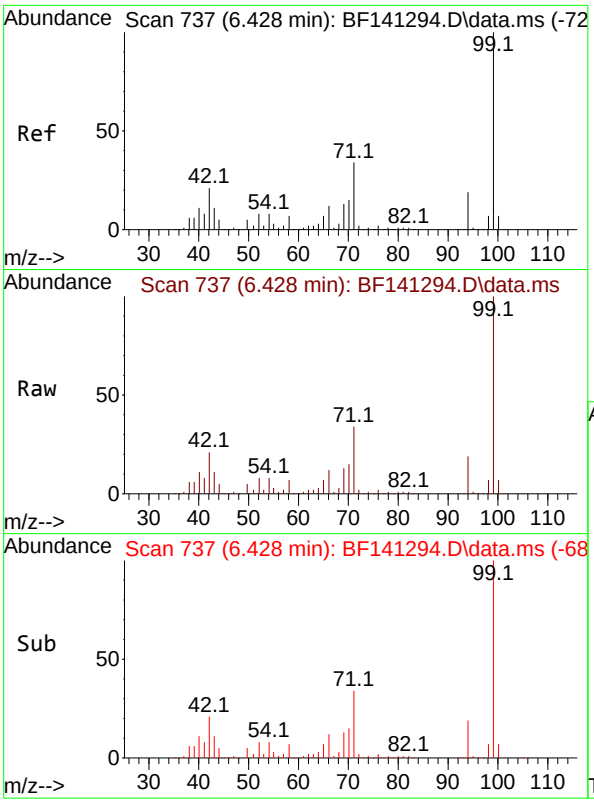


#6
Aniline
Concen: 39.471 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 93 Resp: 371145

Ion	Ratio	Lower	Upper
93	100		
66	40.6	32.5	48.7
65	21.3	17.0	25.6



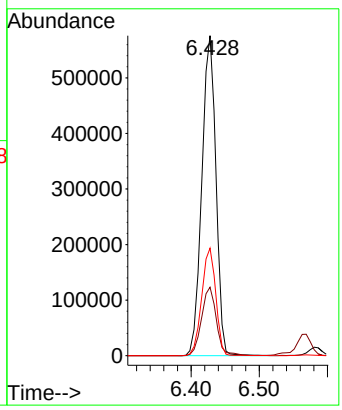


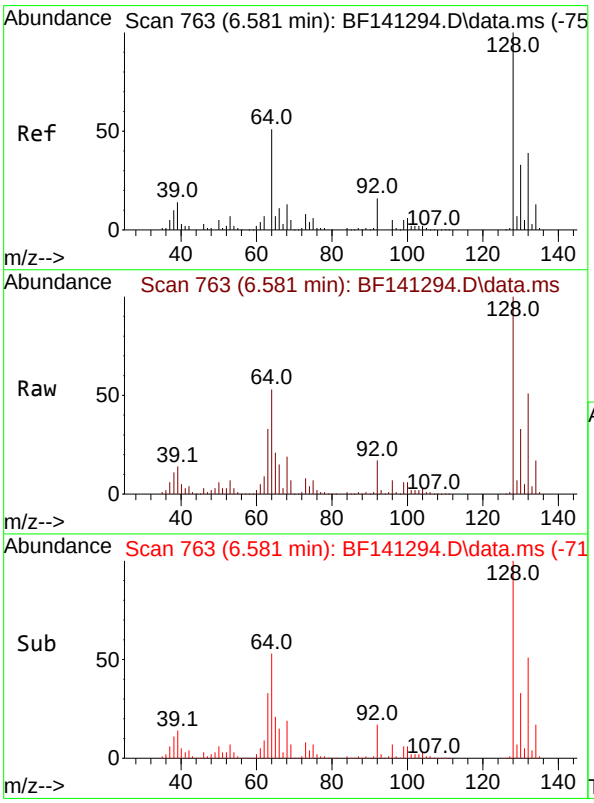
#7
Phenol-d6
Concen: 73.753 ng
RT: 6.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 829746

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.1	25.7
71	33.6	26.9	40.3

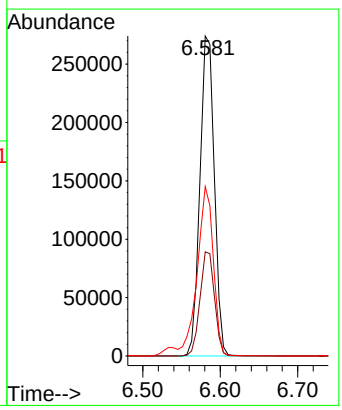


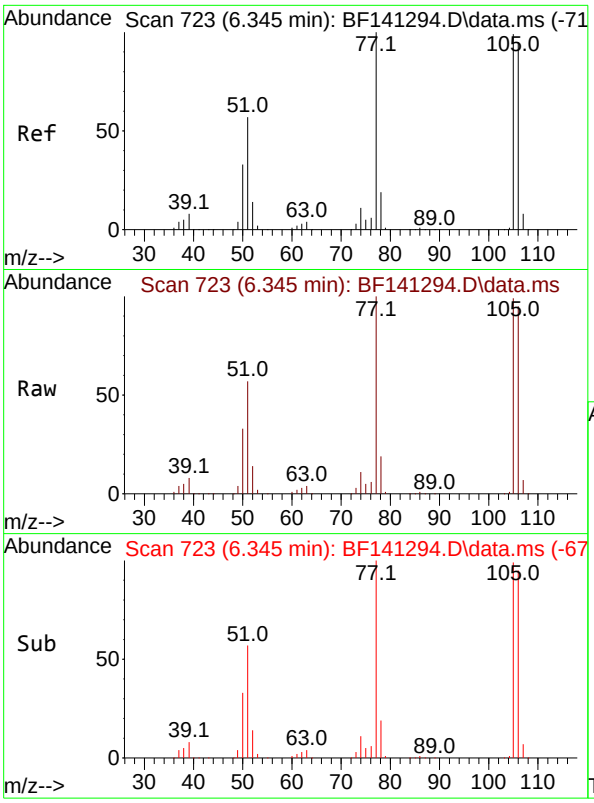


#8
2-Chlorophenol
Concen: 37.357 ng
RT: 6.581 min Scan# 763
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:128 Resp: 354141

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.5	52.5
64	52.9	32.9	72.9



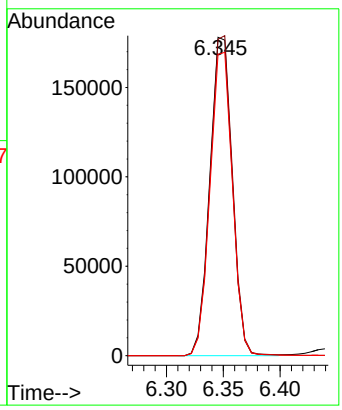


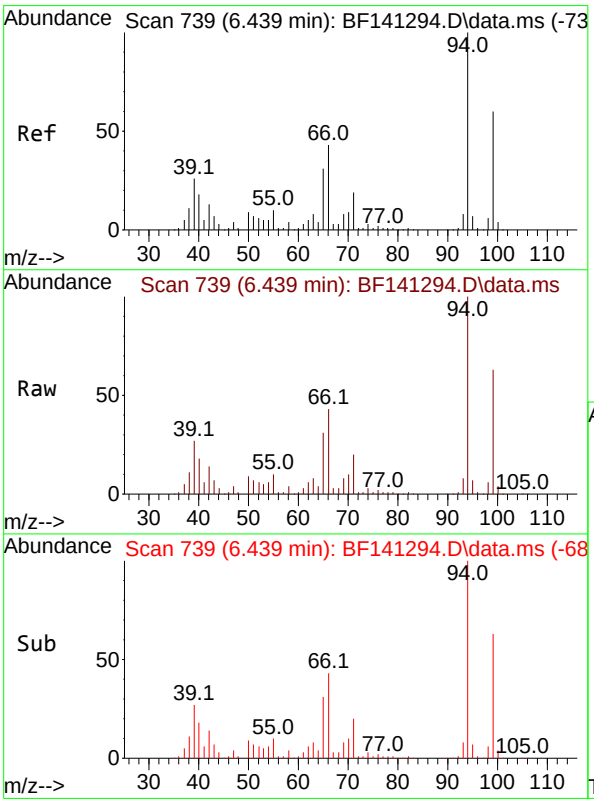
#9
Benzaldehyde
Concen: 37.402 ng
RT: 6.345 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 244365

Ion	Ratio	Lower	Upper
77	100		
105	99.4	79.4	119.4
106	94.6	74.6	114.6

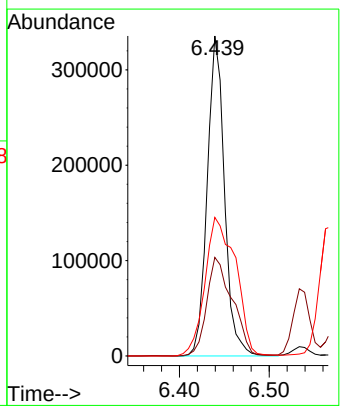


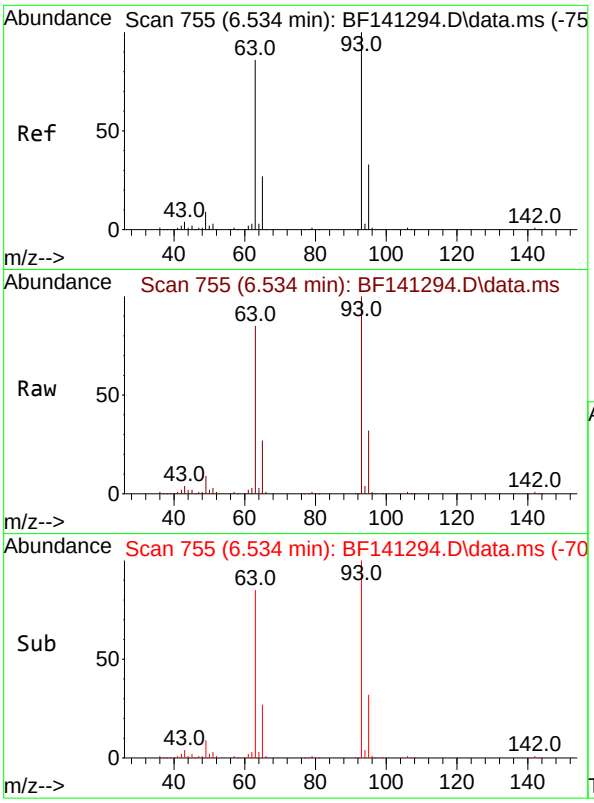


#10
Phenol
Concen: 37.678 ng
RT: 6.439 min Scan# 739
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 94 Resp: 448441

Ion	Ratio	Lower	Upper
94	100		
65	30.8	10.8	50.8
66	43.3	23.3	63.3



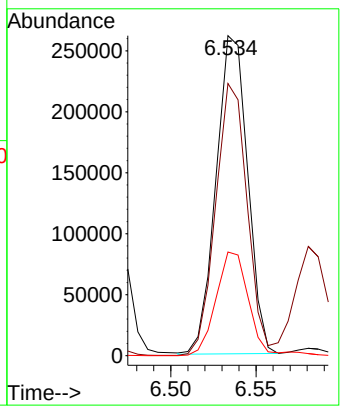


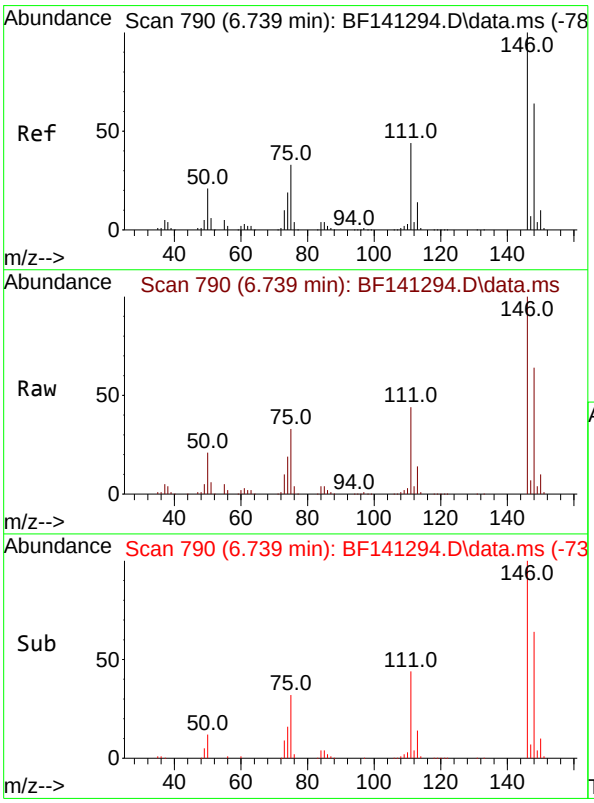
#11
bis(2-Chloroethyl)ether
Concen: 36.754 ng
RT: 6.534 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 336429

Ion	Ratio	Lower	Upper
93	100		
63	85.0	65.0	105.0
95	32.4	12.4	52.4

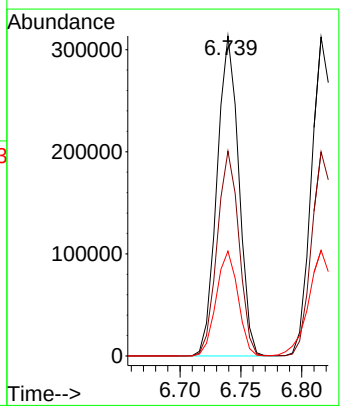


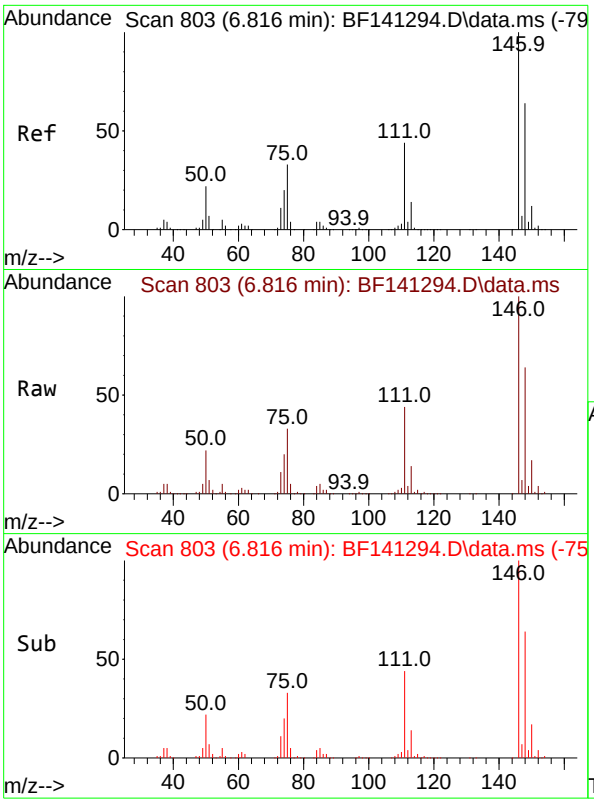


#12
1,3-Dichlorobenzene
Concen: 37.328 ng
RT: 6.739 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:146 Resp: 390276

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
75	32.8	26.2	39.4



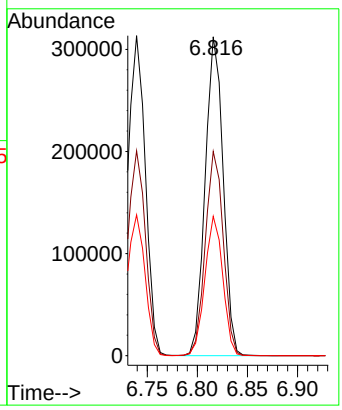


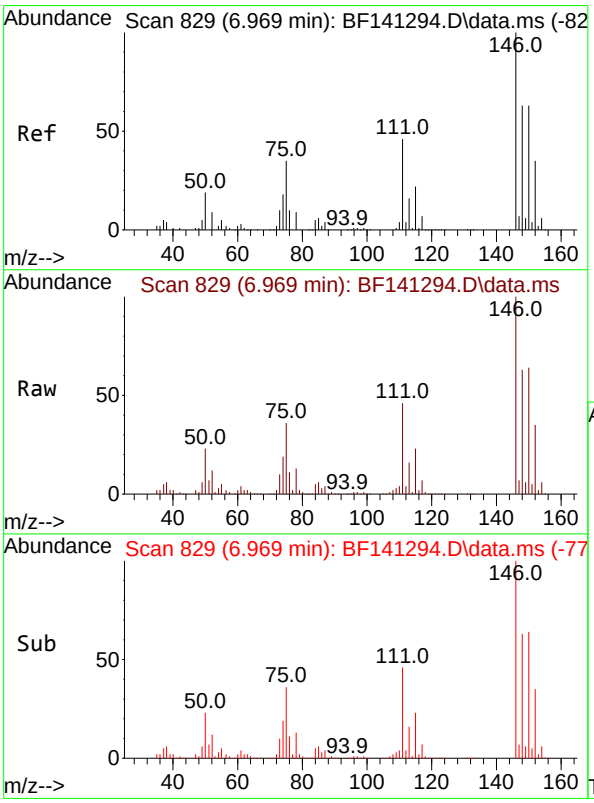
#13
1,4-Dichlorobenzene
Concen: 37.119 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 390834

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
111	43.7	35.0	52.4

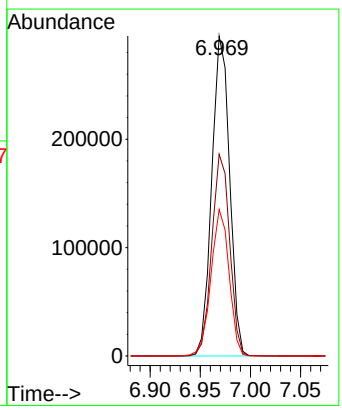


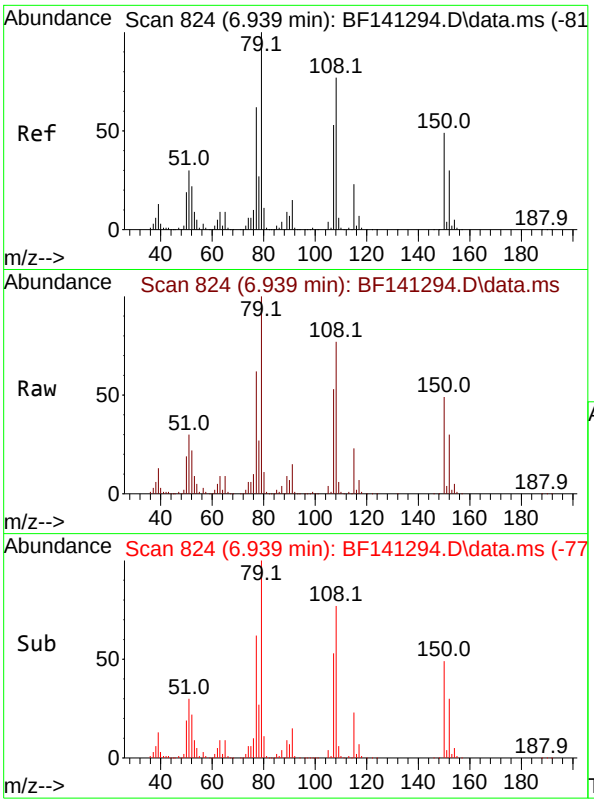


#14
1,2-Dichlorobenzene
Concen: 37.114 ng
RT: 6.969 min Scan# 829
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:146 Resp: 365173

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.5	75.7
111	45.8	36.6	55.0



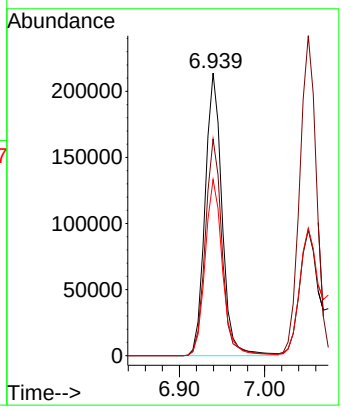


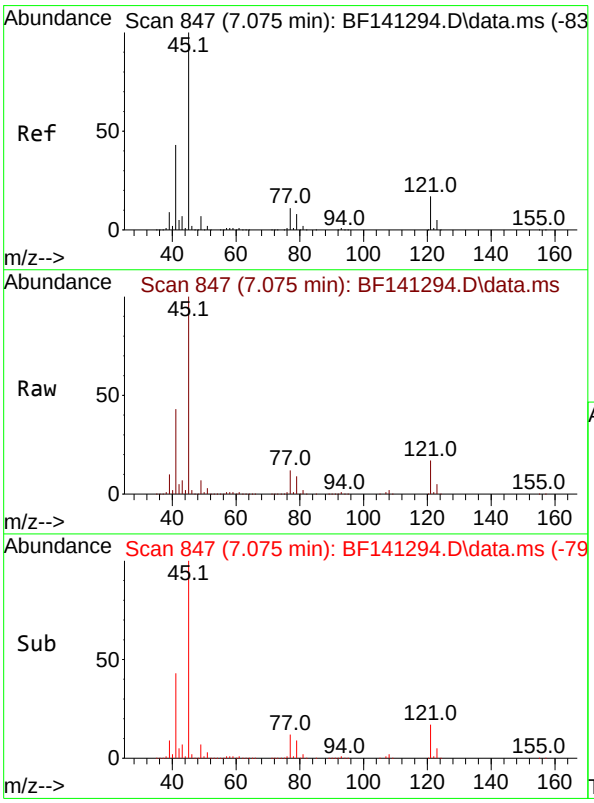
#15
Benzyl Alcohol
Concen: 38.445 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 295478

Ion	Ratio	Lower	Upper
79	100		
108	76.7	61.4	92.0
77	62.4	49.9	74.9

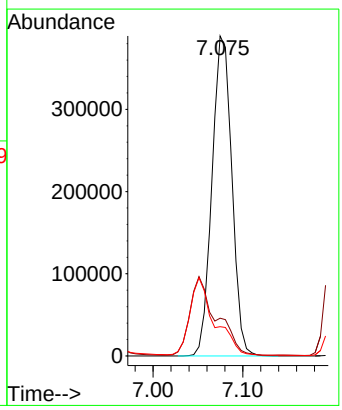


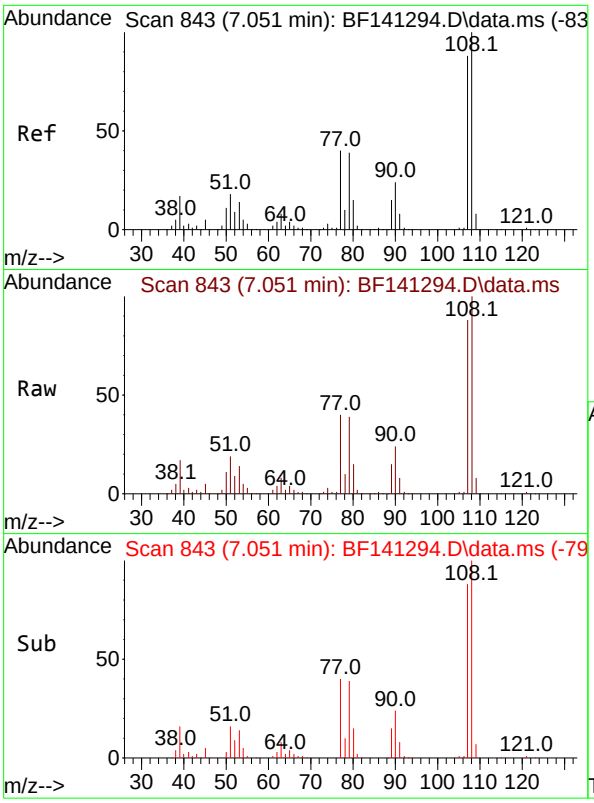


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.578 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 45 Resp: 597590

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	31.8
79	9.1	0.0	29.1



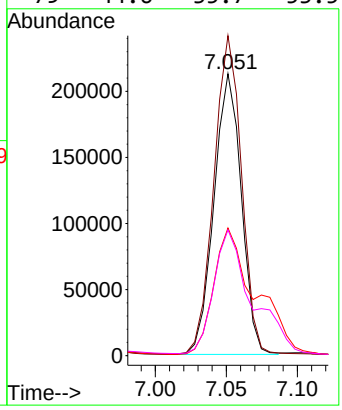


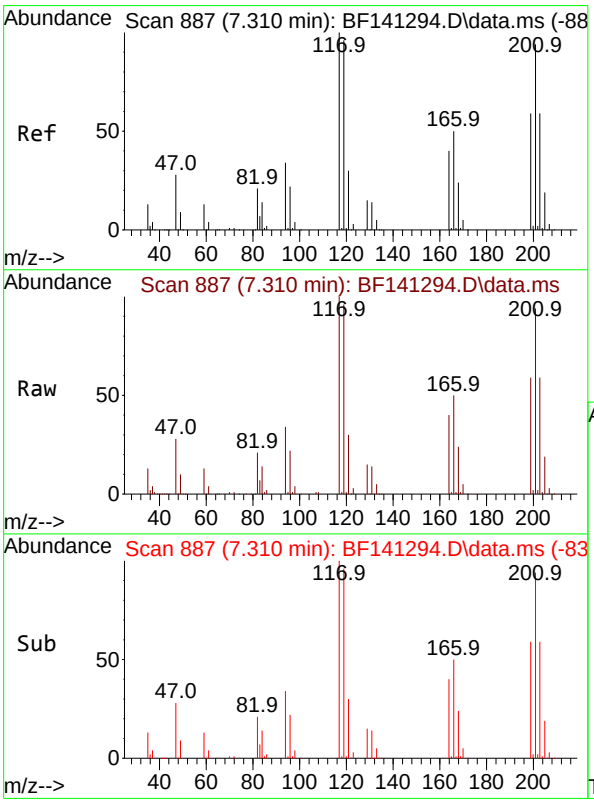
#17
2-Methylphenol
Concen: 37.077 ng
RT: 7.051 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 284578

Ion	Ratio	Lower	Upper
107	100		
108	113.5	90.8	136.2
77	45.3	36.2	54.4
79	44.6	35.7	53.5

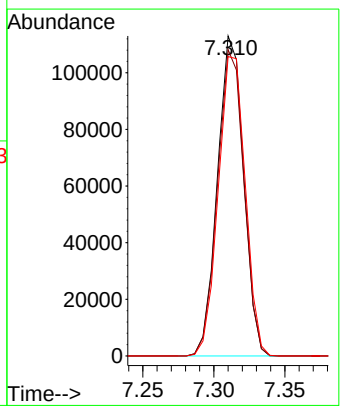


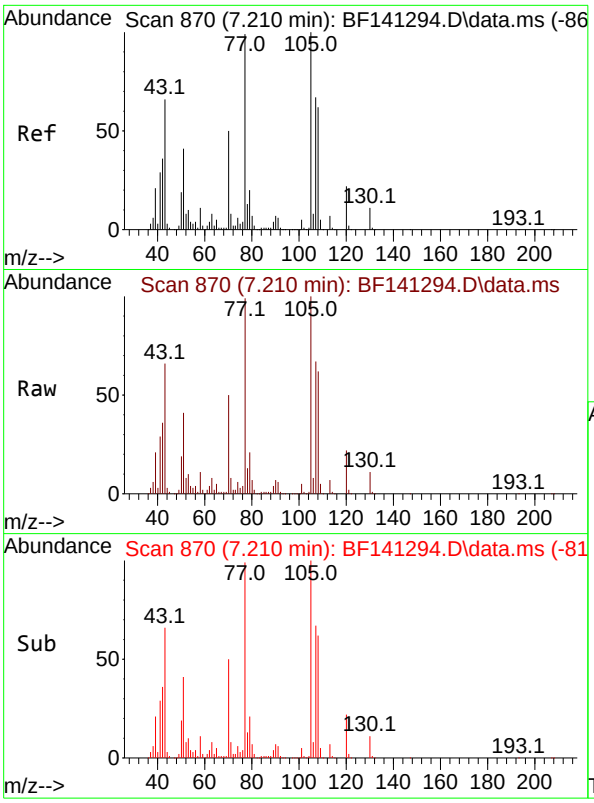


#18
Hexachloroethane
Concen: 37.124 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:117 Resp: 144619

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.6	114.8
201	93.5	74.8	112.2



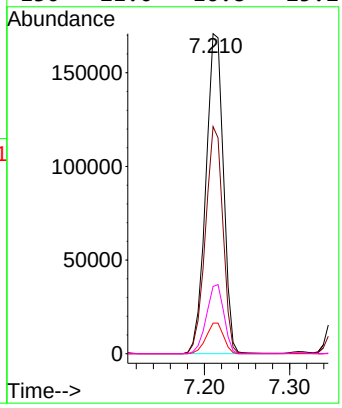


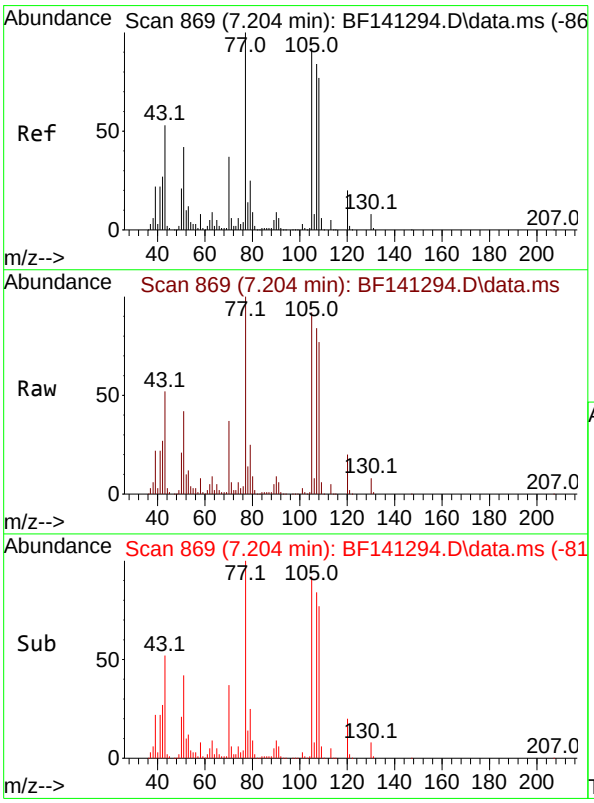
#19
n-Nitroso-di-n-propylamine
Concen: 36.524 ng
RT: 7.210 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 244379

Ion	Ratio	Lower	Upper
70	100		
42	71.0	56.8	85.2
101	9.6	7.7	11.5
130	21.0	16.8	25.2

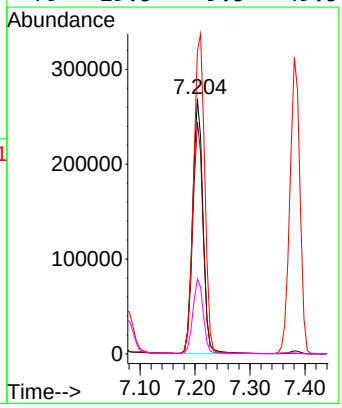


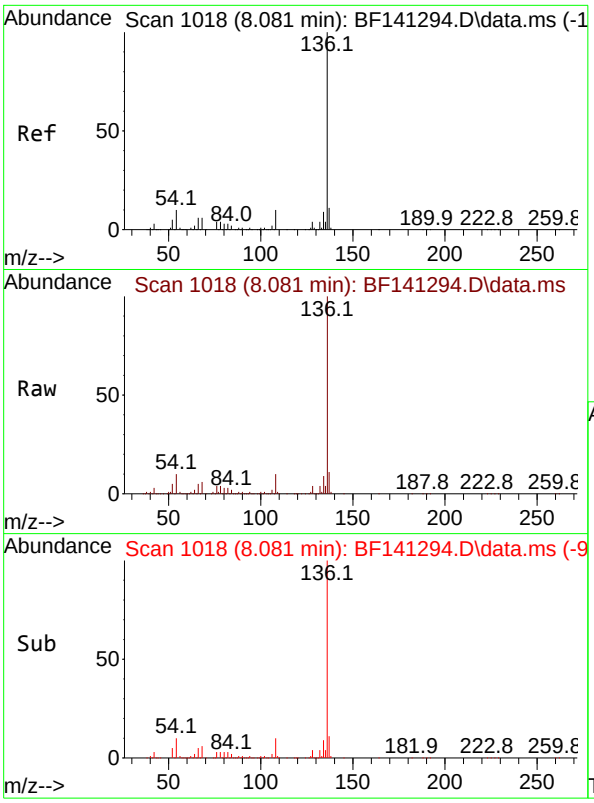


#20
3+4-Methylphenols
Concen: 37.222 ng
RT: 7.204 min Scan# 869
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:107 Resp: 351248

Ion	Ratio	Lower	Upper
107	100		
108	90.9	70.9	110.9
77	118.5	98.5	138.5
79	29.5	9.5	49.5



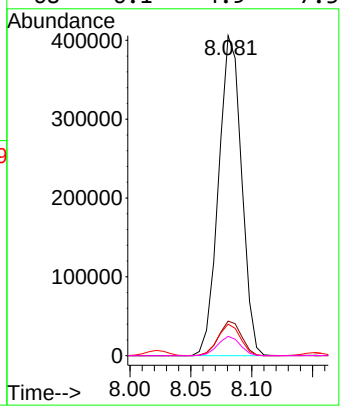


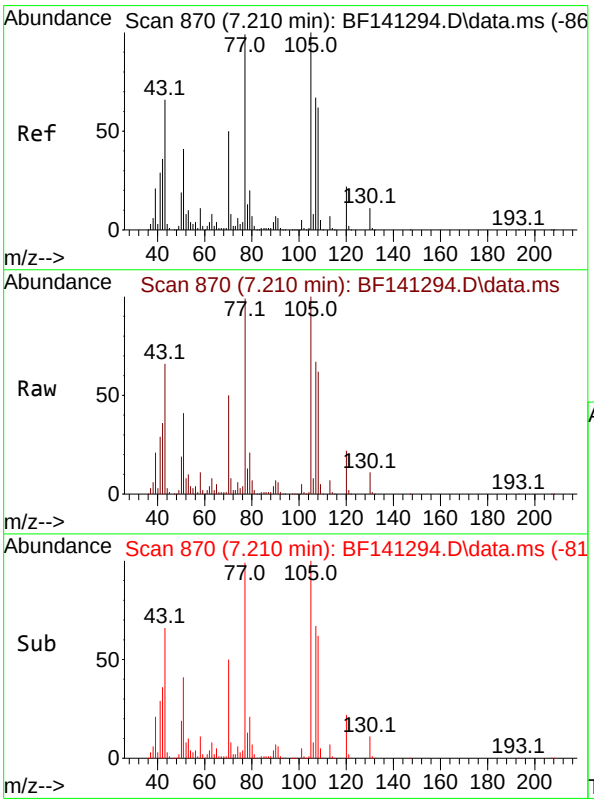
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 533326

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.8	7.8	11.8
68	6.1	4.9	7.3

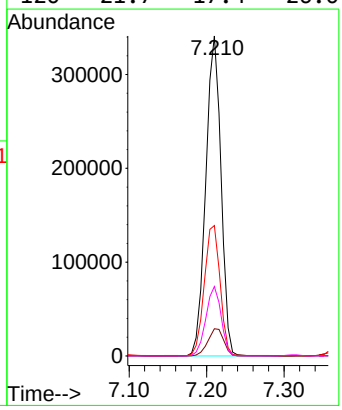


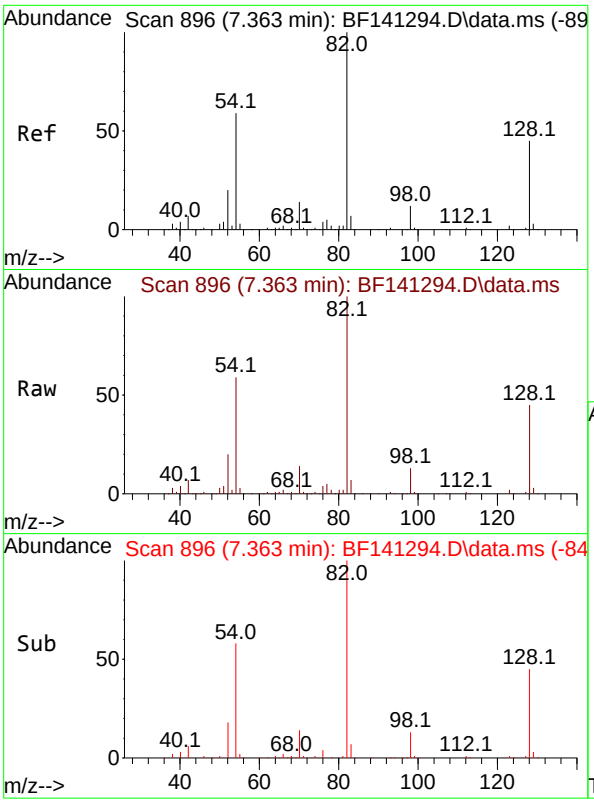


#22
Acetophenone
Concen: 36.793 ng
RT: 7.210 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:105 Resp: 465165

Ion	Ratio	Lower	Upper
105	100		
71	8.5	6.8	10.2
51	40.8	32.6	49.0
120	21.7	17.4	26.0



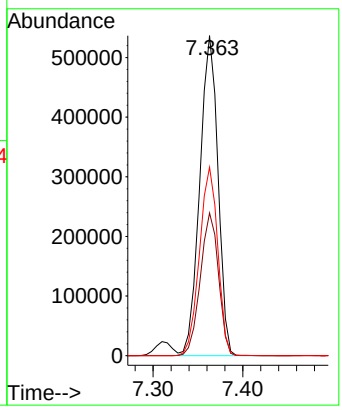


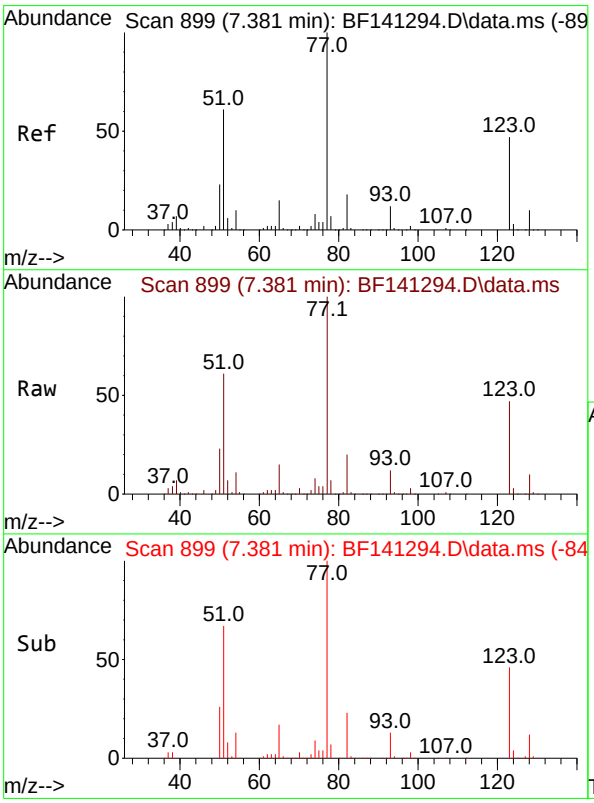
#23
Nitrobenzene-d5
Concen: 74.958 ng
RT: 7.363 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 755539

Ion	Ratio	Lower	Upper
82	100		
128	44.6	35.7	53.5
54	58.9	47.1	70.7

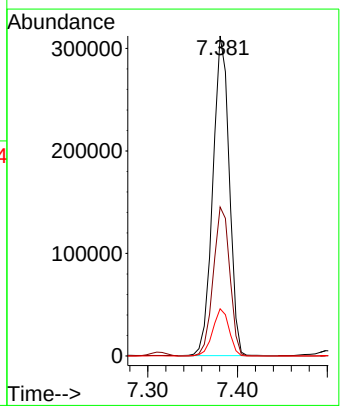


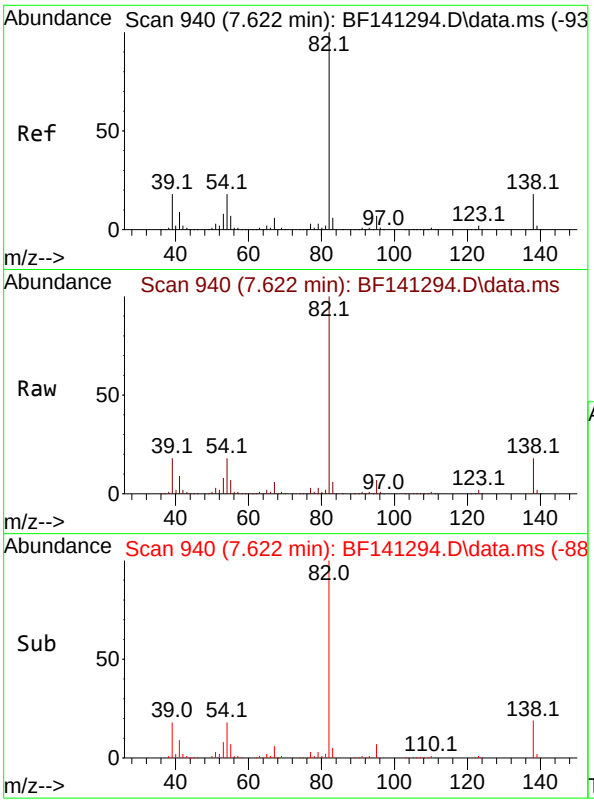


#24
Nitrobenzene
Concen: 37.893 ng
RT: 7.381 min Scan# 899
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 77 Resp: 396149

Ion	Ratio	Lower	Upper
77	100		
123	46.6	37.3	55.9
65	14.7	11.8	17.6



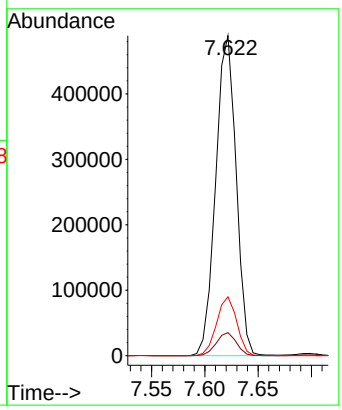


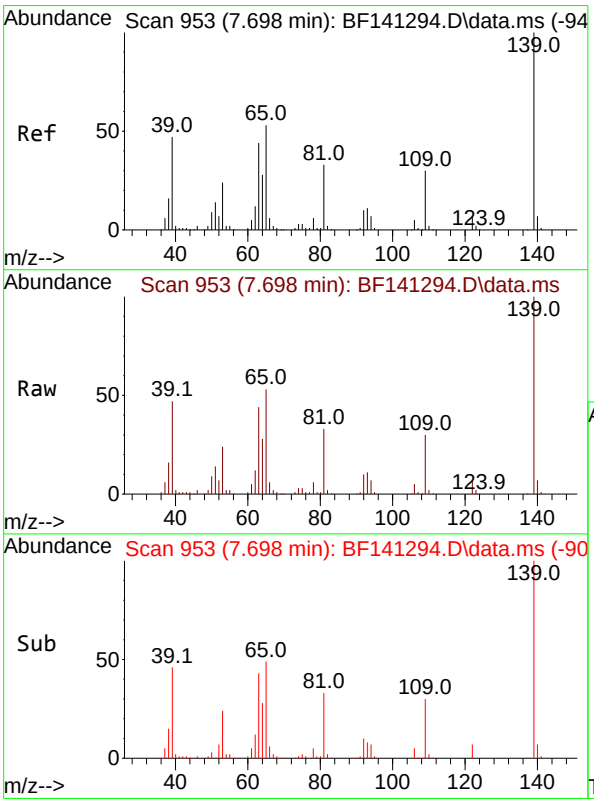
#25
Isophorone
Concen: 37.429 ng
RT: 7.622 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 651994

Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.6
138	18.4	14.7	22.1

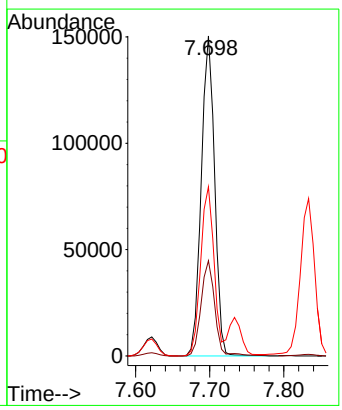


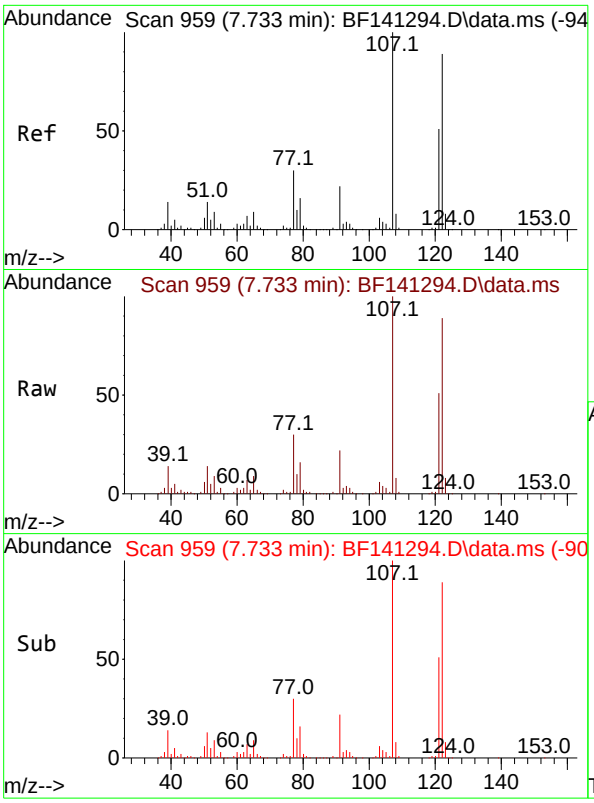


#26
2-Nitrophenol
Concen: 38.483 ng
RT: 7.698 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:139 Resp: 188435

Ion	Ratio	Lower	Upper
139	100		
109	29.7	23.8	35.6
65	52.8	42.2	63.4



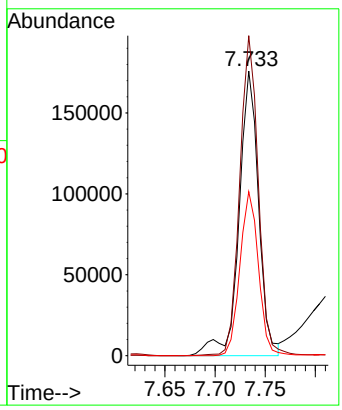


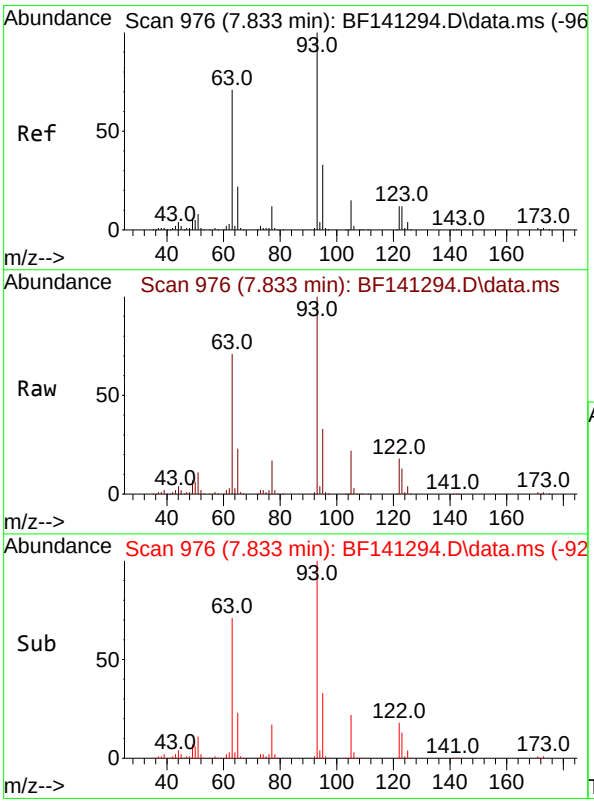
#27
2,4-Dimethylphenol
Concen: 38.255 ng
RT: 7.733 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 239376

Ion	Ratio	Lower	Upper
122	100		
107	112.4	89.9	134.9
121	57.6	46.1	69.1

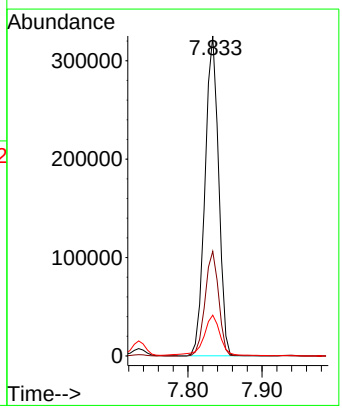


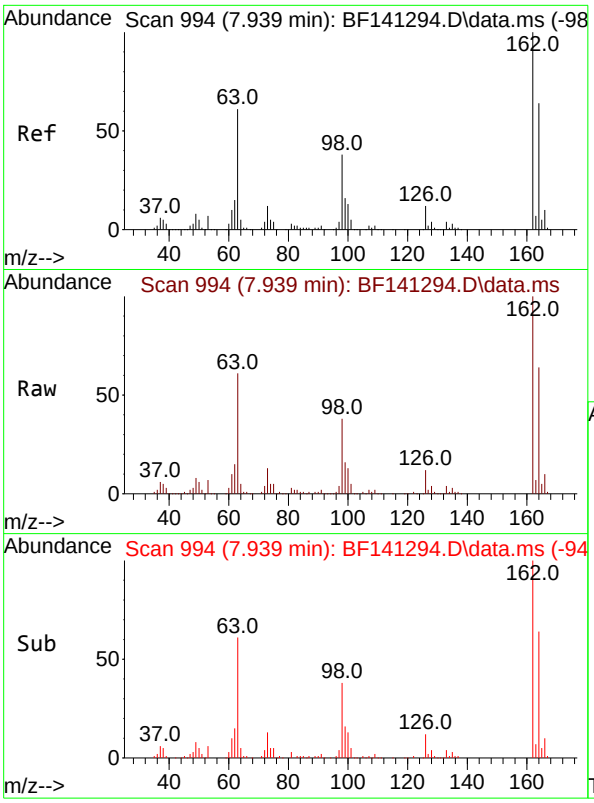


#28
bis(2-Chloroethoxy)methane
Concen: 37.367 ng
RT: 7.833 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 93 Resp: 414781

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.2
123	12.8	10.2	15.4



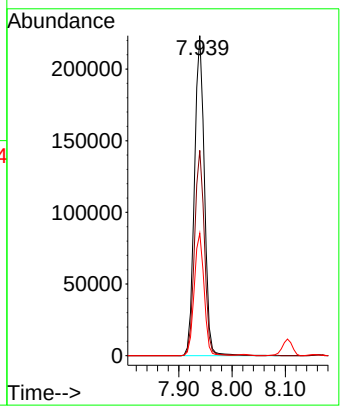


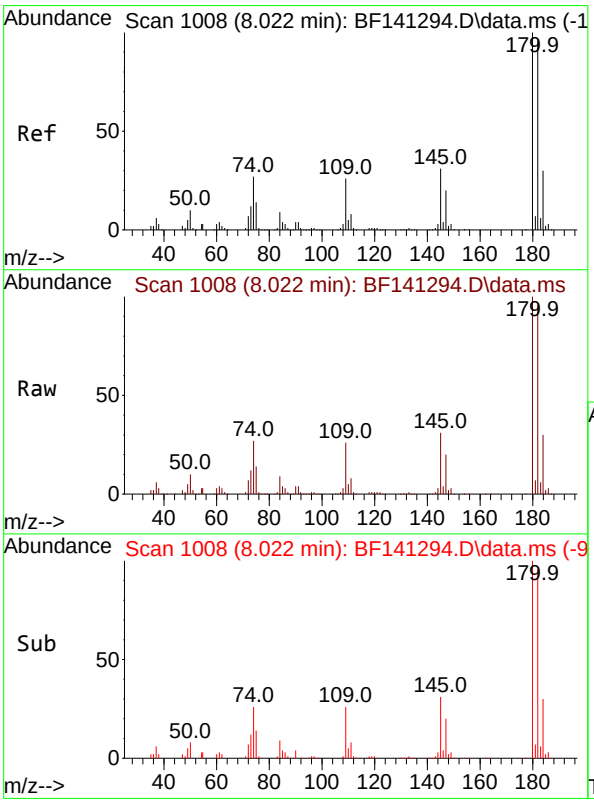
#29
2,4-Dichlorophenol
Concen: 37.768 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 288763

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.2	84.2
98	38.2	18.2	58.2

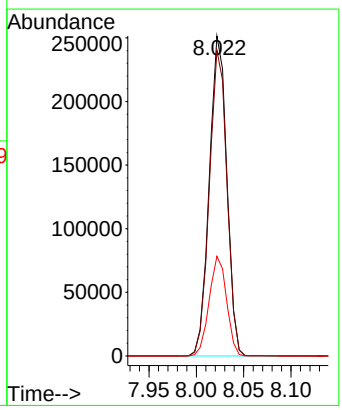


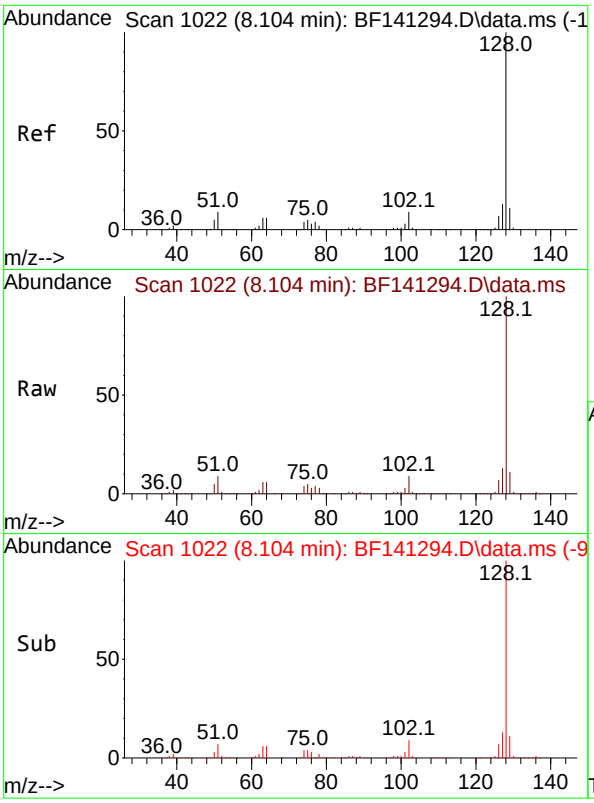


#30
1,2,4-Trichlorobenzene
Concen: 36.932 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:180 Resp: 323865

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
145	31.1	24.9	37.3



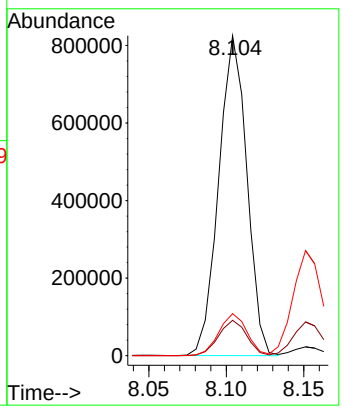


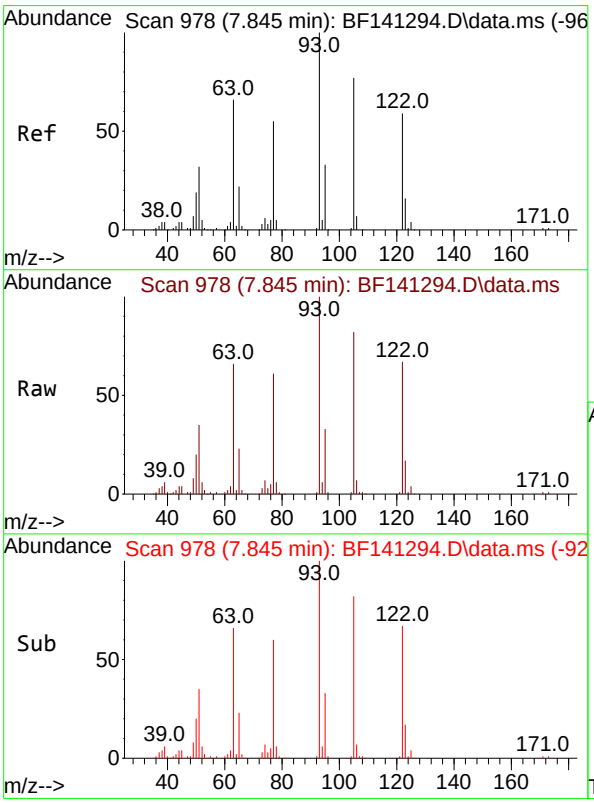
#31
Naphthalene
Concen: 37.116 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1041107

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

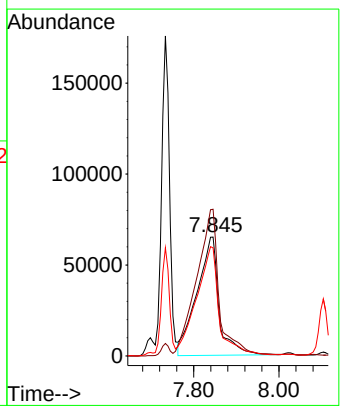


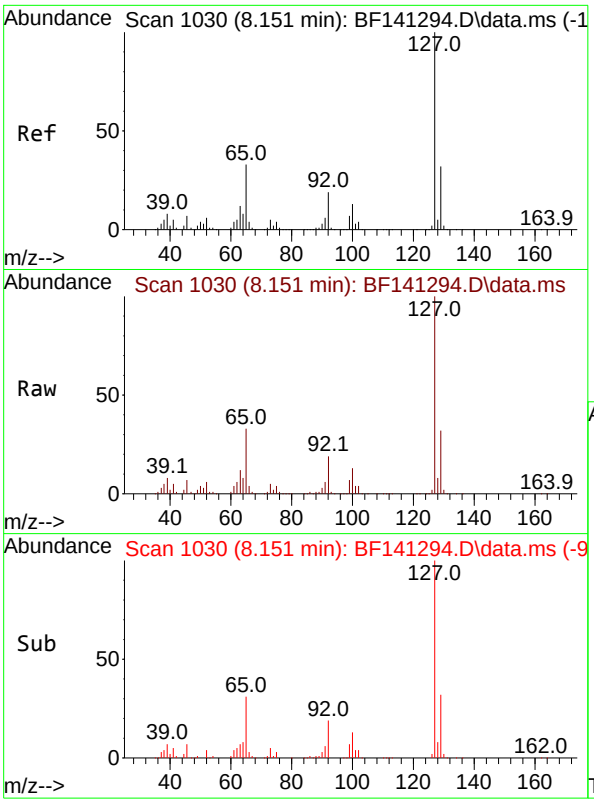


#32
Benzoic acid
Concen: 41.459 ng
RT: 7.845 min Scan# 978
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:122 Resp: 235596

Ion	Ratio	Lower	Upper
122	100		
105	123.4	103.4	143.4
77	90.9	70.9	110.9



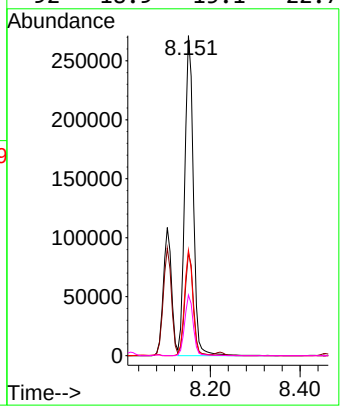


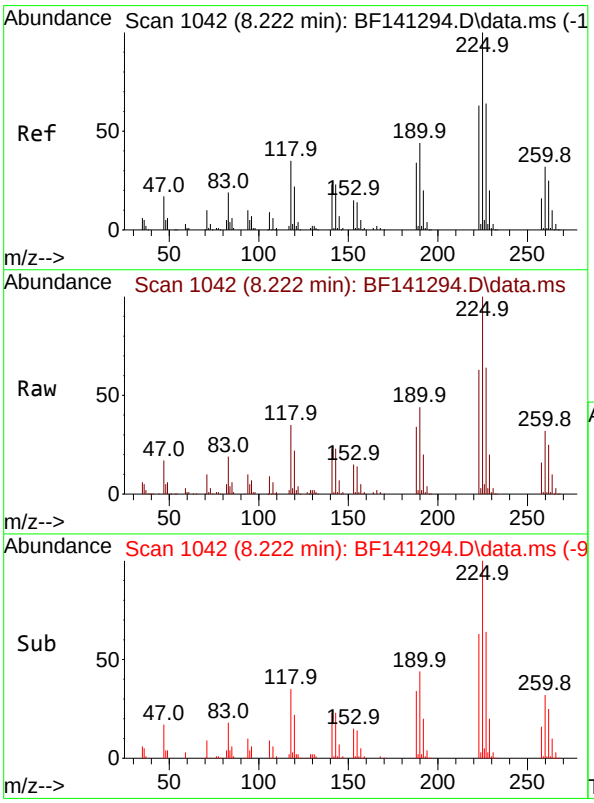
#33
4-Chloroaniline
Concen: 38.313 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 361001

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.7	38.5
65	33.0	26.4	39.6
92	18.9	15.1	22.7

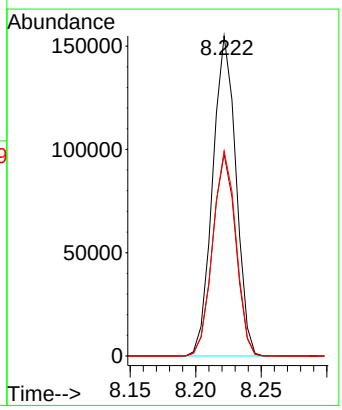


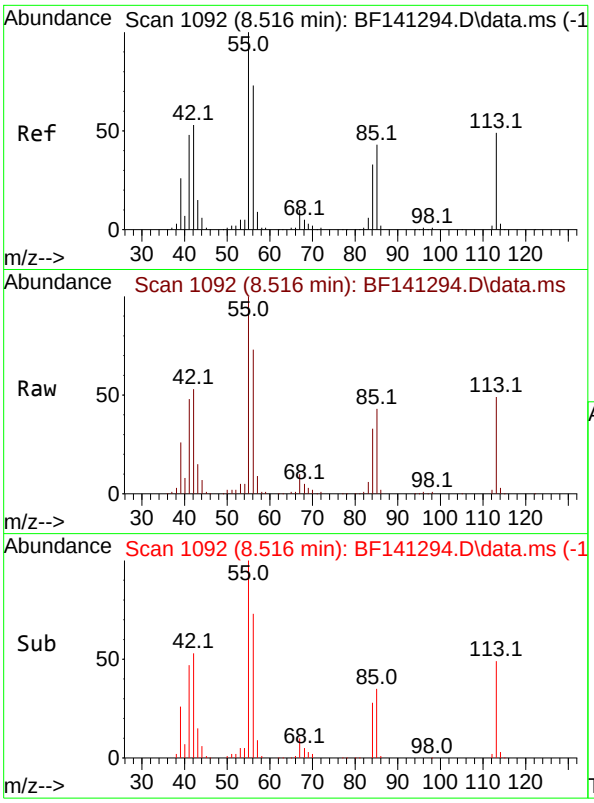


#34
Hexachlorobutadiene
Concen: 37.169 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:225 Resp: 190772

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6
227	64.1	51.3	76.9



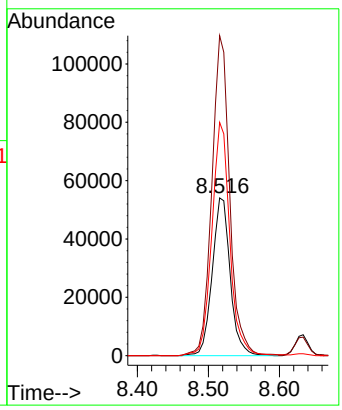


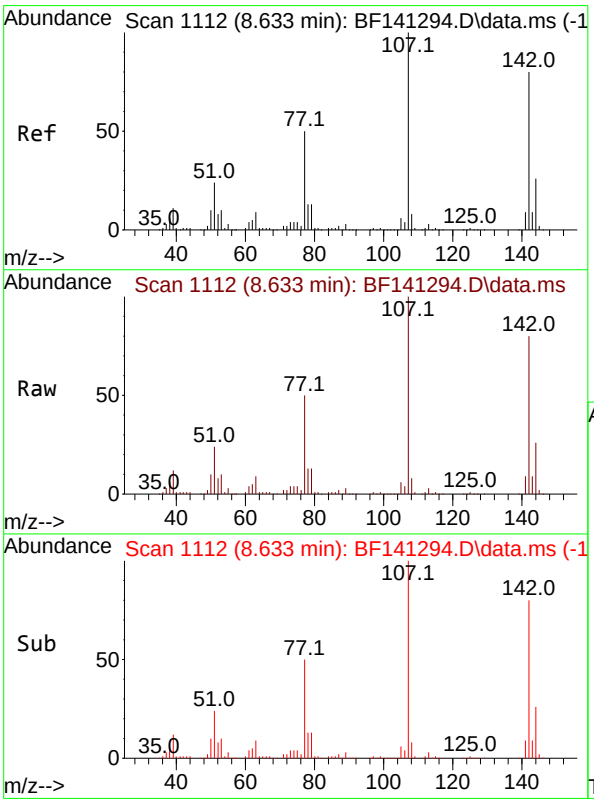
#35
Caprolactam
Concen: 38.342 ng
RT: 8.516 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 94819

Ion	Ratio	Lower	Upper
113	100		
55	202.9	182.9	222.9
56	147.9	127.9	167.9

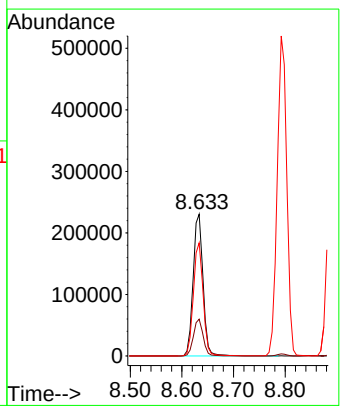


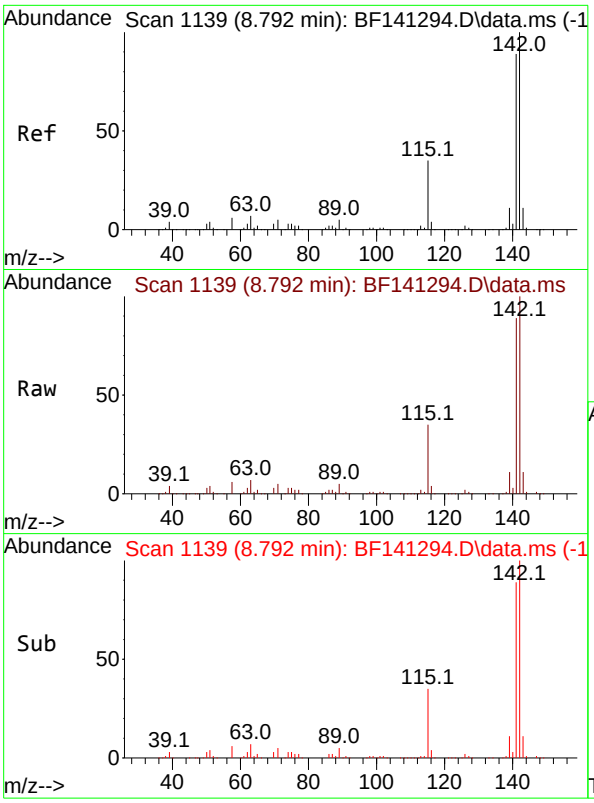


#36
4-Chloro-3-methylphenol
Concen: 37.262 ng
RT: 8.633 min Scan# 1112
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:107 Resp: 305768

Ion	Ratio	Lower	Upper
107	100		
144	25.9	20.7	31.1
142	79.8	63.8	95.8



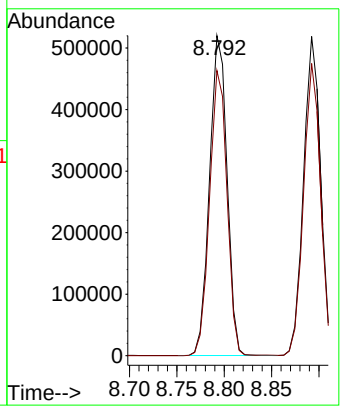


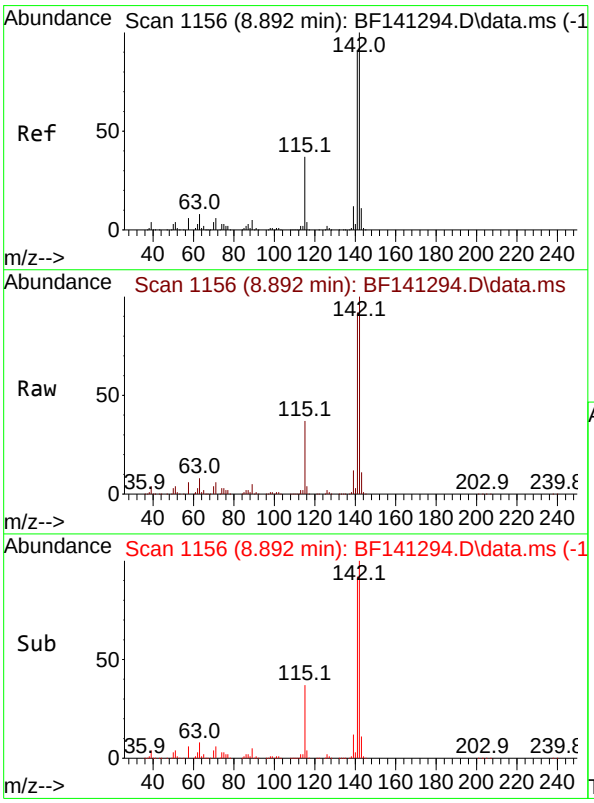
#37
2-Methylnaphthalene
Concen: 37.286 ng
RT: 8.792 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 666038

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.3	106.9

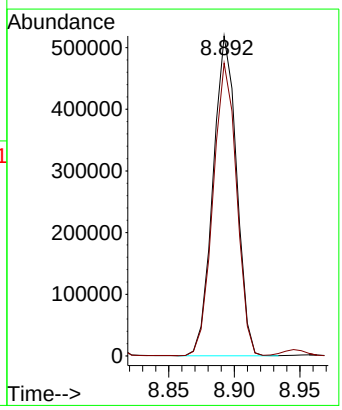


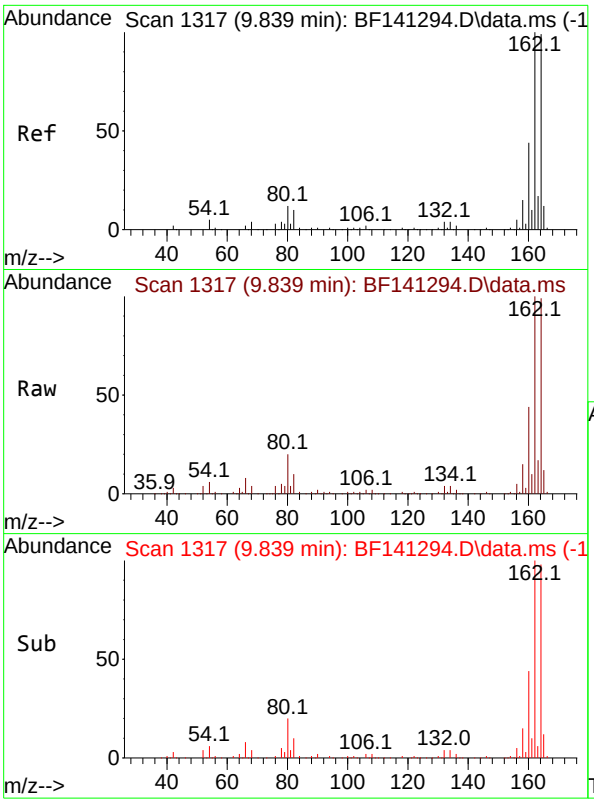


#38
1-Methylnaphthalene
Concen: 36.938 ng
RT: 8.892 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:142 Resp: 646346

Ion	Ratio	Lower	Upper
142	100		
141	91.5	73.2	109.8



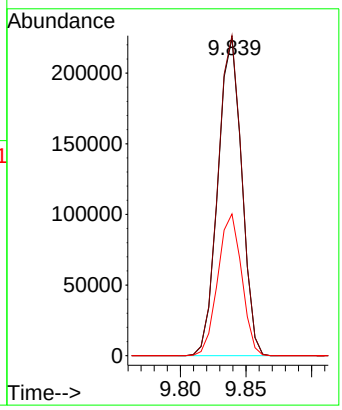


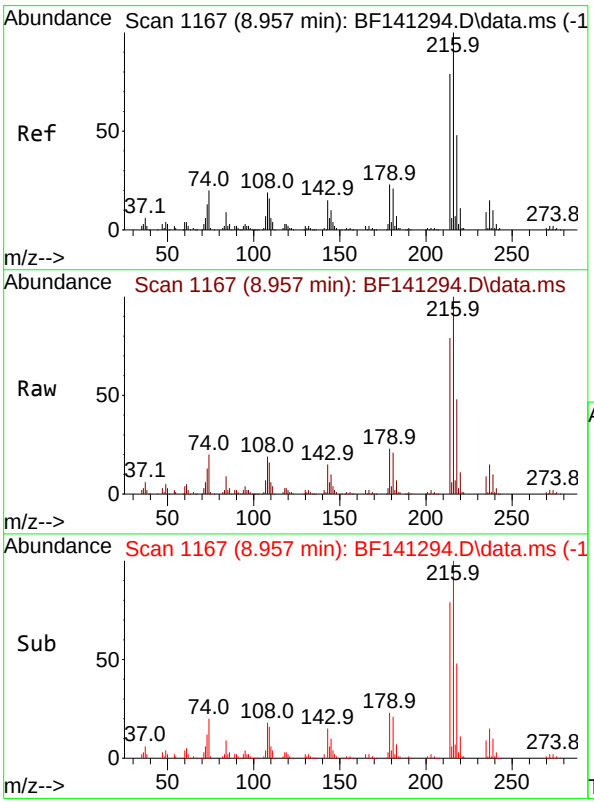
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 282995

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.6	121.0
160	44.7	35.8	53.6

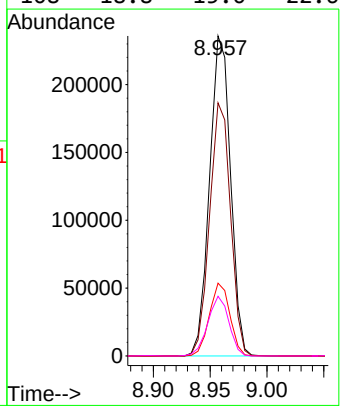


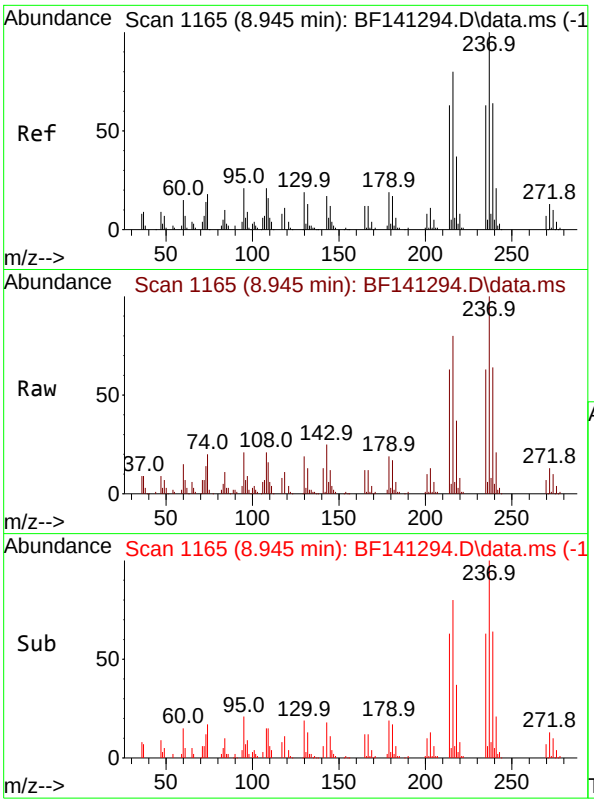


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.591 ng
RT: 8.957 min Scan# 1167
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:216 Resp: 302471

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.2	94.8
179	22.3	17.8	26.8
108	18.8	15.0	22.6



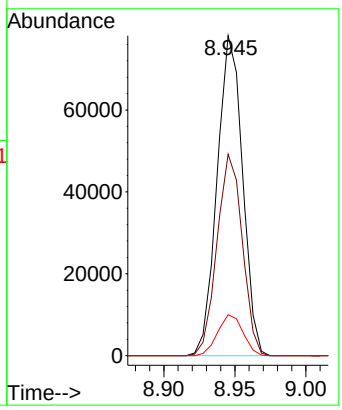


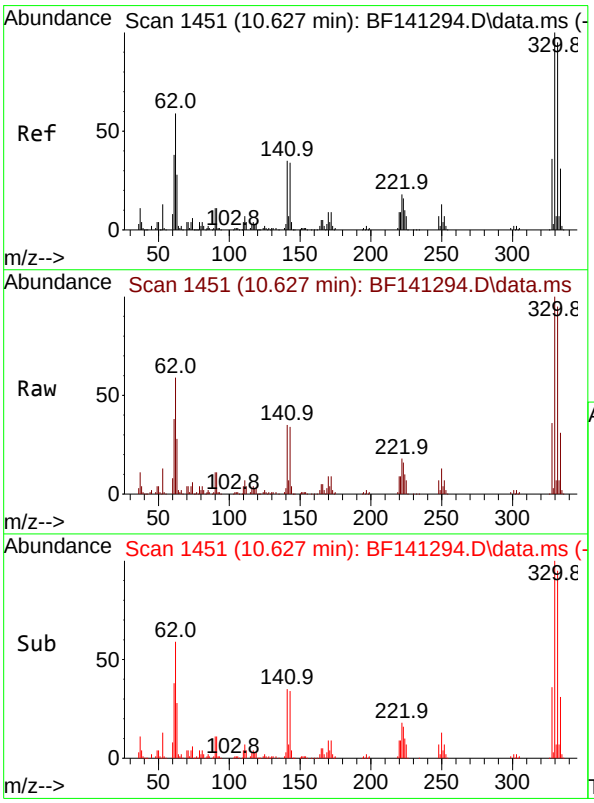
#41
Hexachlorocyclopentadiene
Concen: 40.295 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 97299

Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	12.8	0.0	32.8

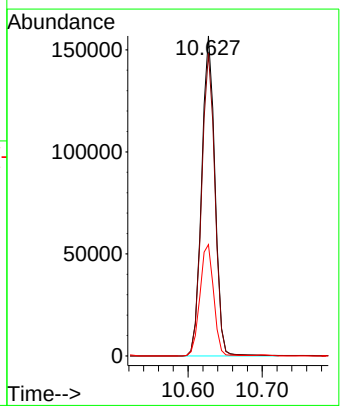


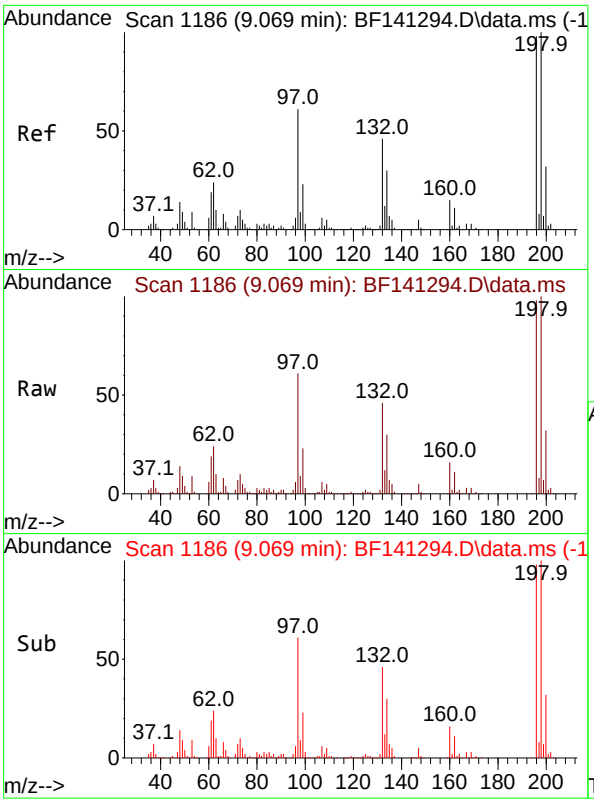


#42
2,4,6-Tribromophenol
Concen: 75.888 ng
RT: 10.627 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:330 Resp: 195693

Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.1	114.1
141	36.0	28.8	43.2



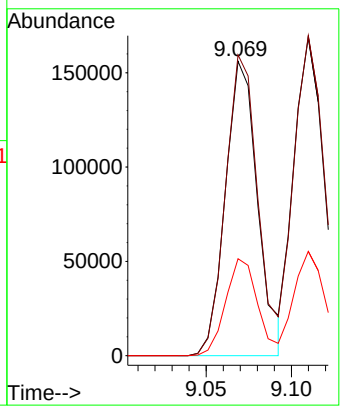


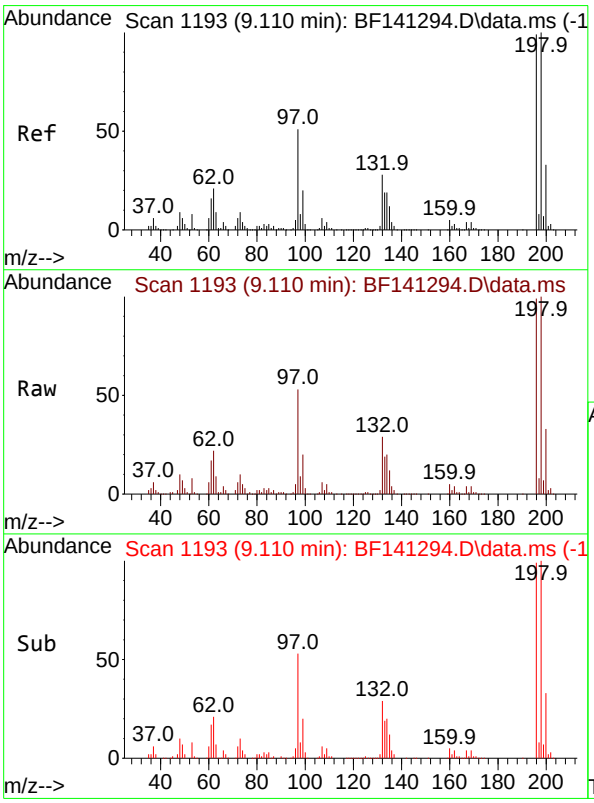
#43
2,4,6-Trichlorophenol
Concen: 39.181 ng
RT: 9.069 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 205797

Ion	Ratio	Lower	Upper
196	100		
198	102.2	81.8	122.6
200	32.9	26.3	39.5

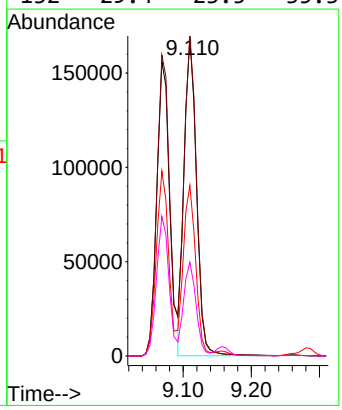


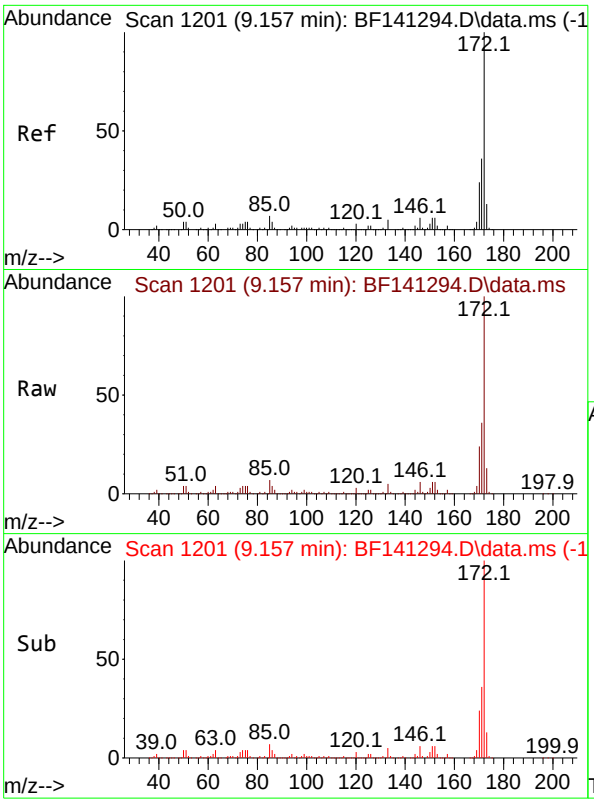


#44
2,4,5-Trichlorophenol
Concen: 37.346 ng
RT: 9.110 min Scan# 1193
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:196 Resp: 213401

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.5	120.7
97	53.5	42.8	64.2
132	29.4	23.5	35.3



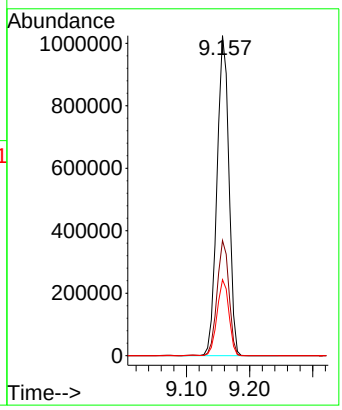


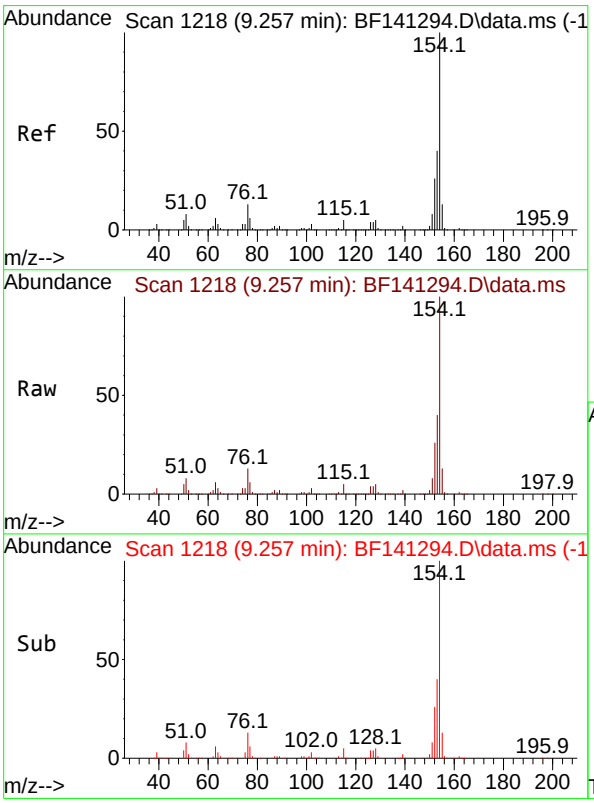
#45
2-Fluorobiphenyl
Concen: 73.029 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 1339709

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.8	19.0	28.6

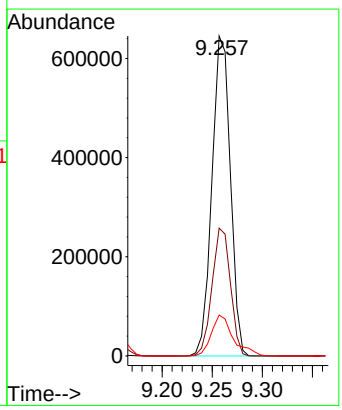


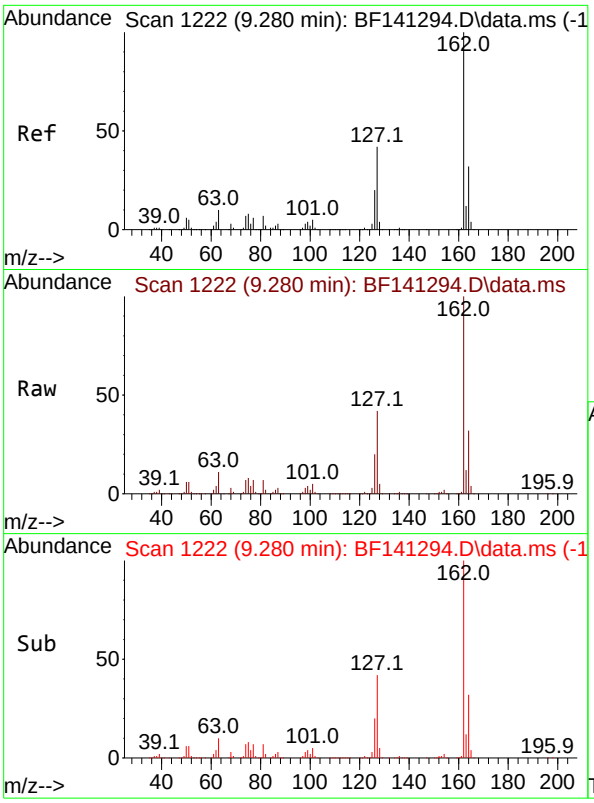


#46
1,1'-Biphenyl
Concen: 37.278 ng
RT: 9.257 min Scan# 1218
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:154 Resp: 823004

Ion	Ratio	Lower	Upper
154	100		
153	40.0	20.0	60.0
76	12.8	0.0	32.8



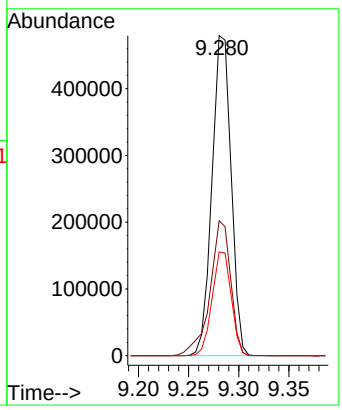


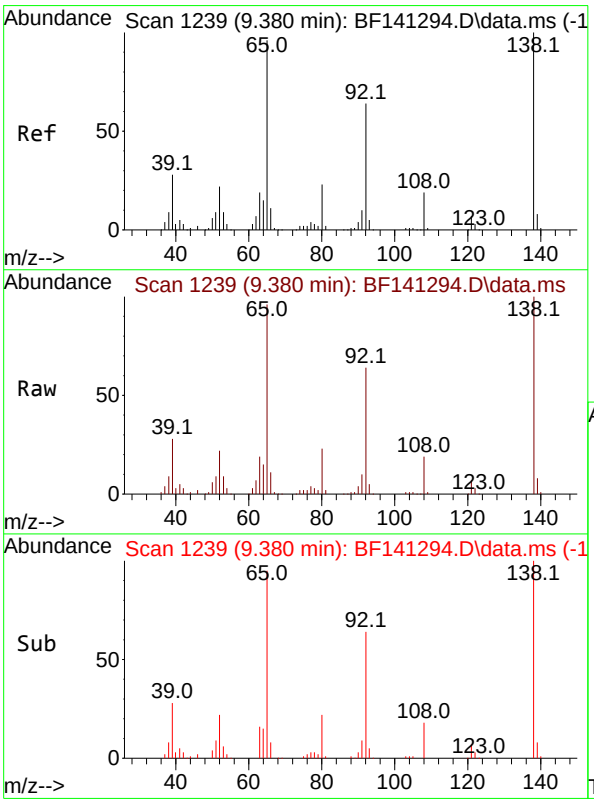
#47
2-Chloronaphthalene
Concen: 37.020 ng
RT: 9.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 634814

Ion	Ratio	Lower	Upper
162	100		
127	42.1	33.7	50.5
164	32.4	25.9	38.9

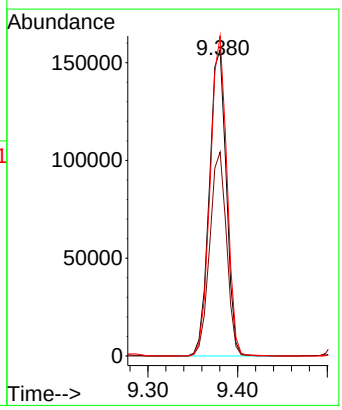


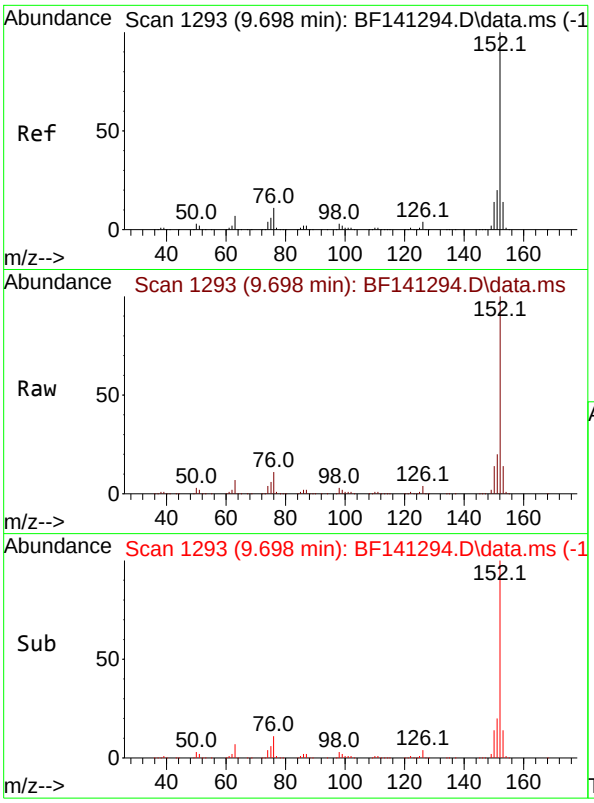


#48
2-Nitroaniline
Concen: 38.089 ng
RT: 9.380 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 65 Resp: 205997

Ion	Ratio	Lower	Upper
65	100		
92	66.6	53.3	79.9
138	104.5	83.6	125.4



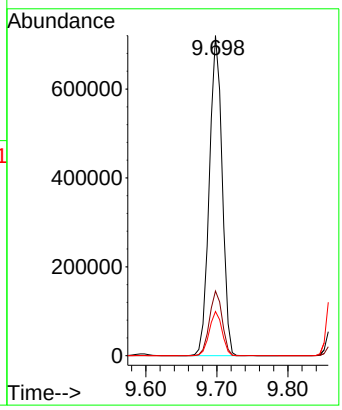


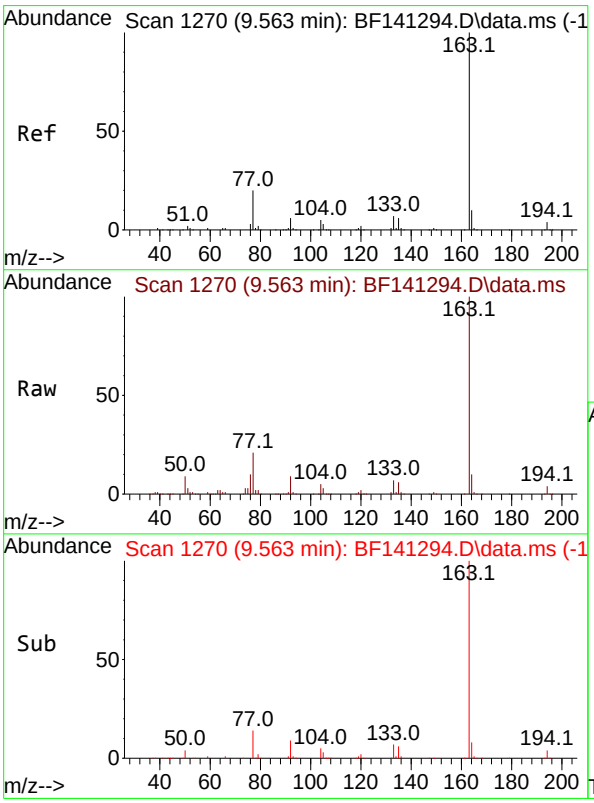
#49
Acenaphthylene
Concen: 37.483 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 902715

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.2
153	13.8	11.0	16.6

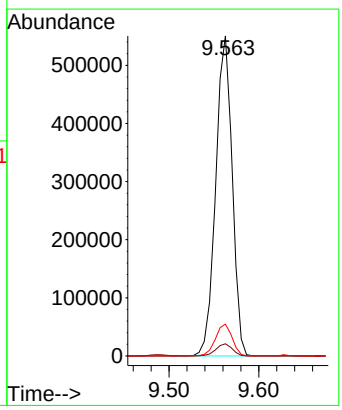


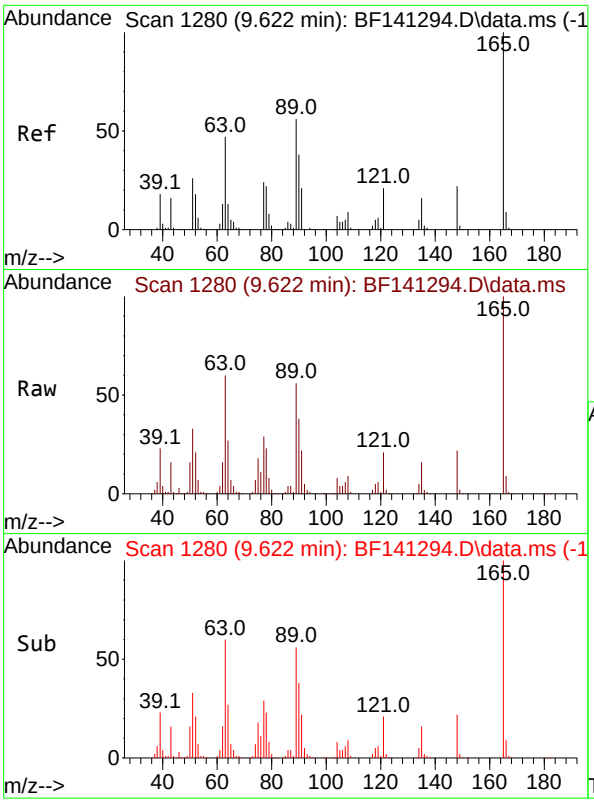


#50
Dimethylphthalate
Concen: 36.945 ng
RT: 9.563 min Scan# 1270
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:163 Resp: 701107

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.0	8.0	12.0



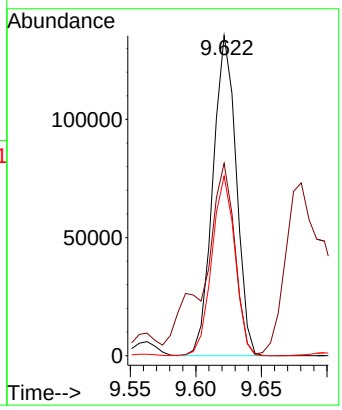


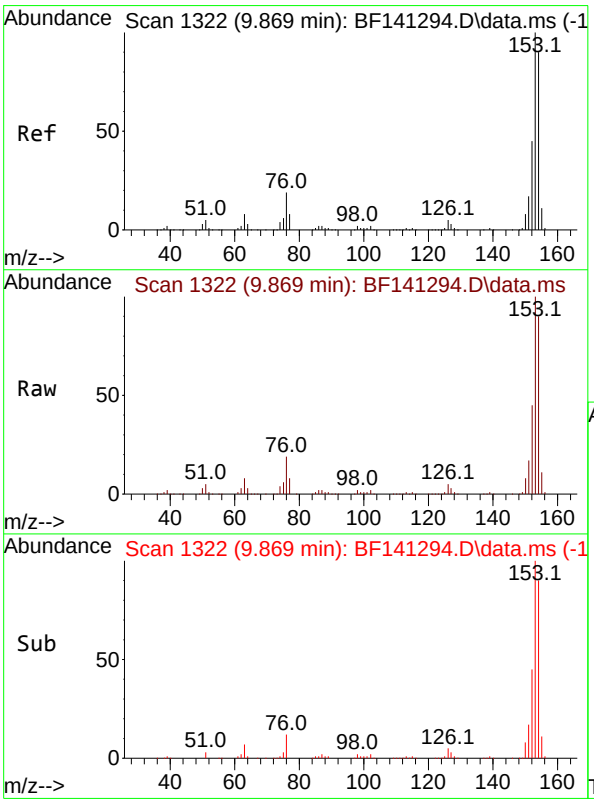
#51
2,6-Dinitrotoluene
Concen: 37.909 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 167409

Ion	Ratio	Lower	Upper
165	100		
63	60.1	48.1	72.1
89	56.1	44.9	67.3

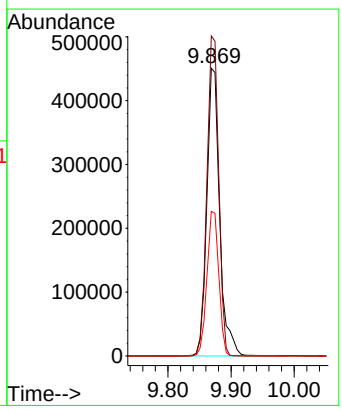


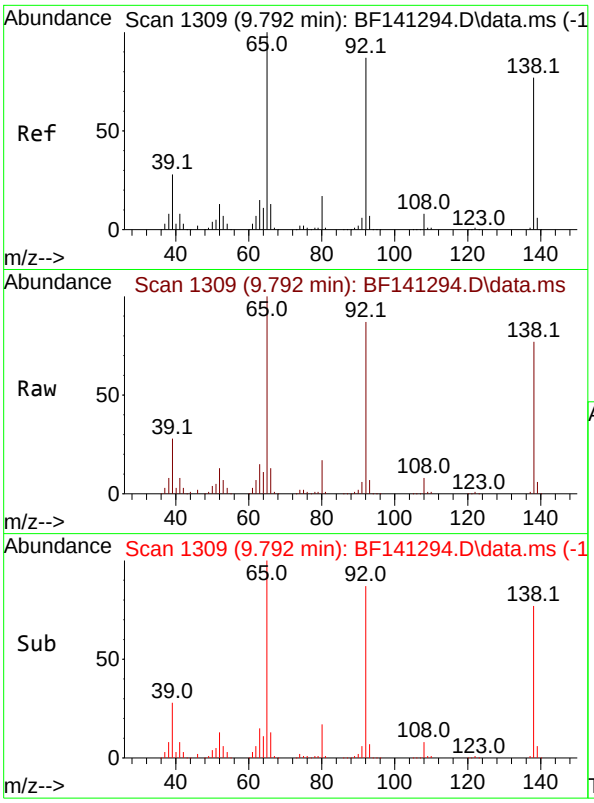


#52
Acenaphthene
Concen: 37.266 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:154 Resp: 638597

Ion	Ratio	Lower	Upper
154	100		
153	111.2	89.0	133.4
152	50.3	40.2	60.4



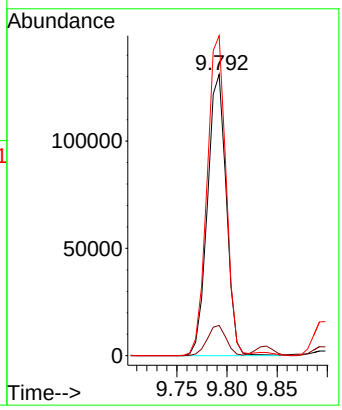


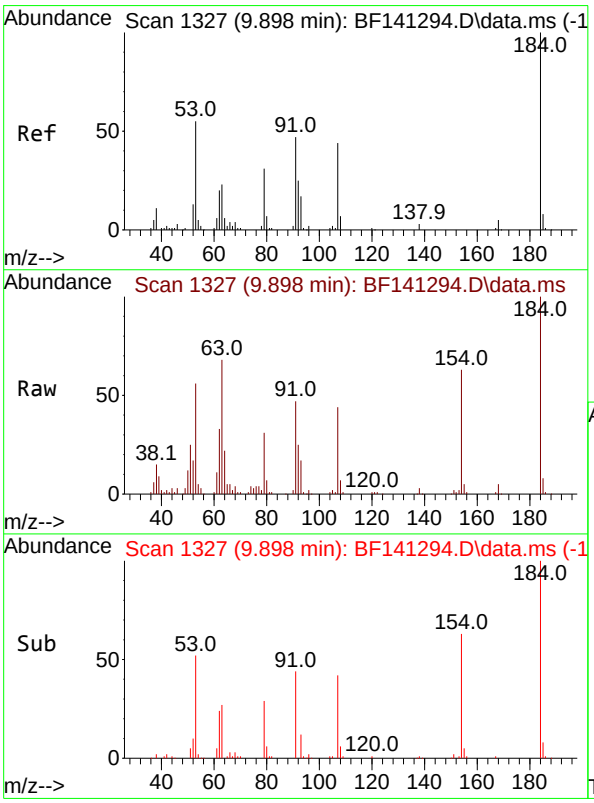
#53
3-Nitroaniline
Concen: 39.240 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 171409

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.6	12.8
92	113.8	91.0	136.6

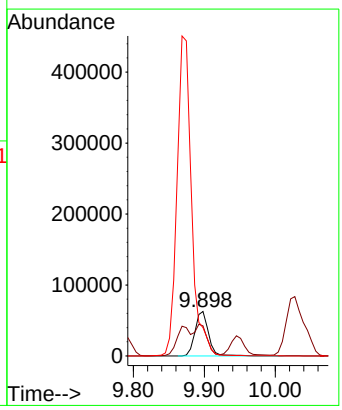


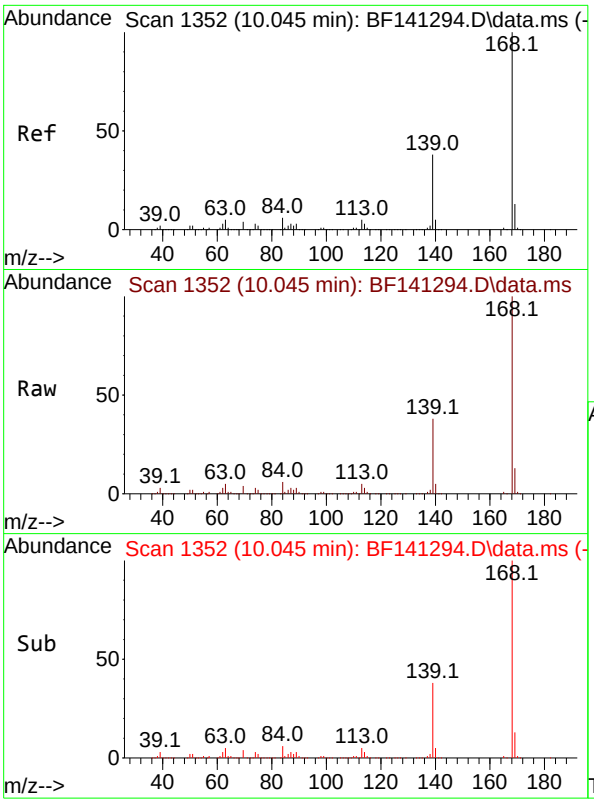


#54
2,4-Dinitrophenol
Concen: 40.011 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:184 Resp: 83282

Ion	Ratio	Lower	Upper
184	100		
63	67.6	54.1	81.1
154	63.4	50.7	76.1



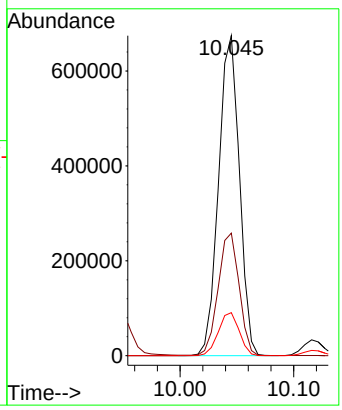


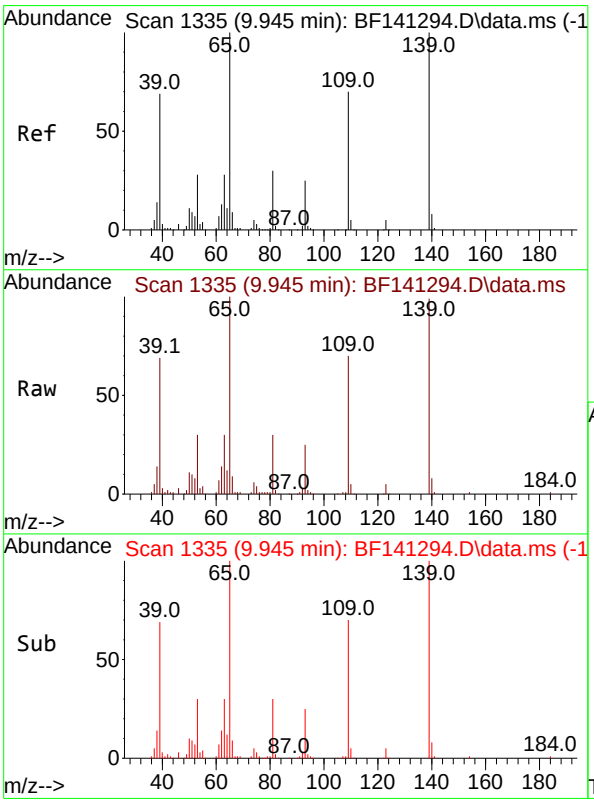
#55
Dibenzofuran
Concen: 37.490 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 859175

Ion	Ratio	Lower	Upper
168	100		
139	38.3	30.6	46.0
169	13.5	10.8	16.2

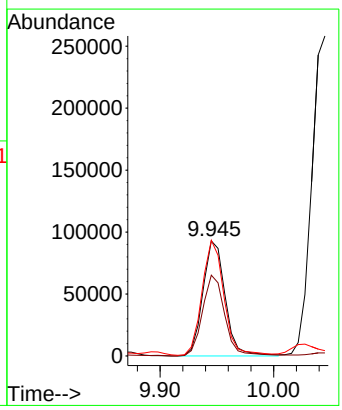


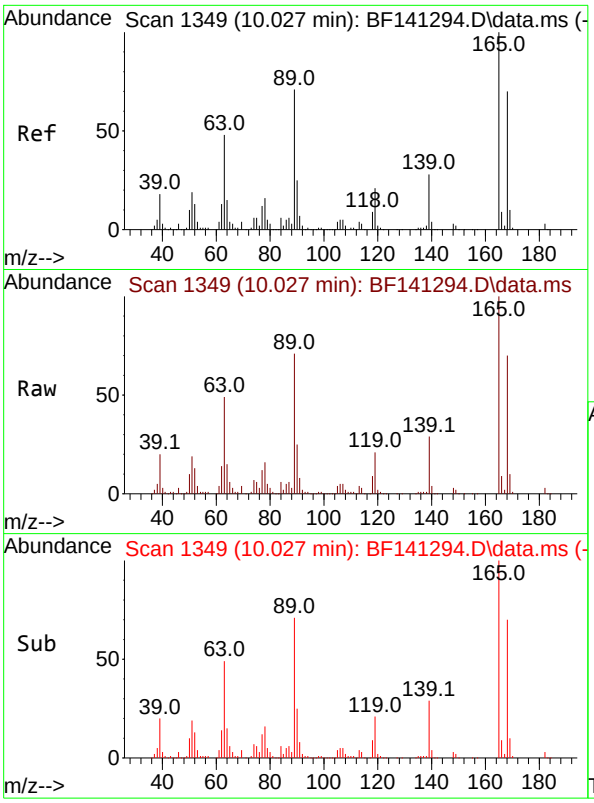


#56
4-Nitrophenol
Concen: 40.349 ng
RT: 9.945 min Scan# 1335
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:139 Resp: 126536

Ion	Ratio	Lower	Upper
139	100		
109	70.2	50.2	90.2
65	100.6	80.6	120.6



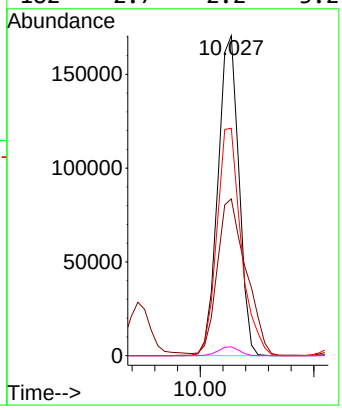


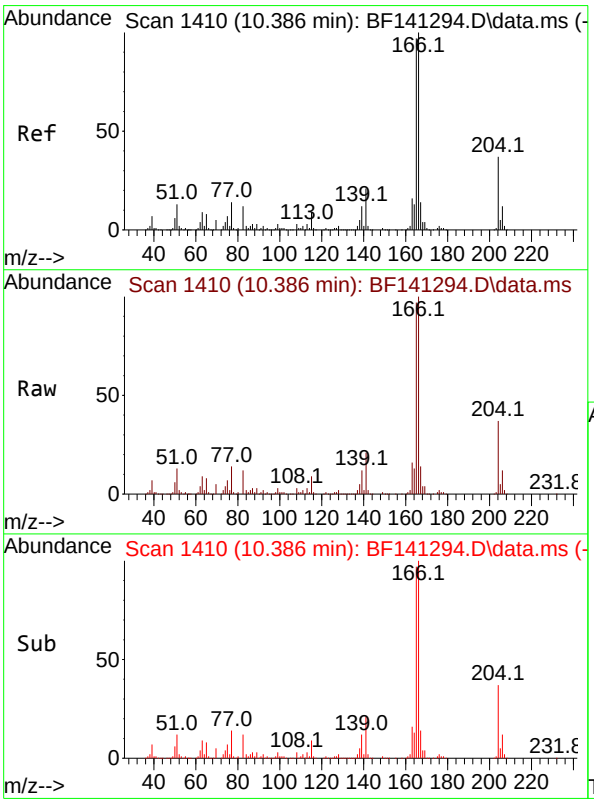
#57
2,4-Dinitrotoluene
Concen: 38.382 ng
RT: 10.027 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 218627

Ion	Ratio	Lower	Upper
165	100		
63	49.0	39.2	58.8
89	71.1	56.9	85.3
182	2.7	2.2	3.2

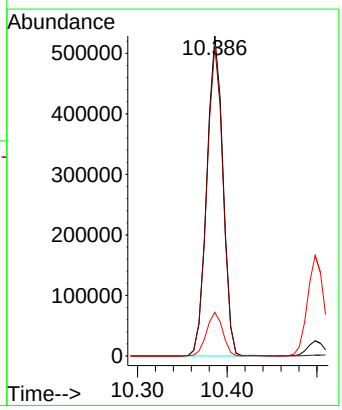


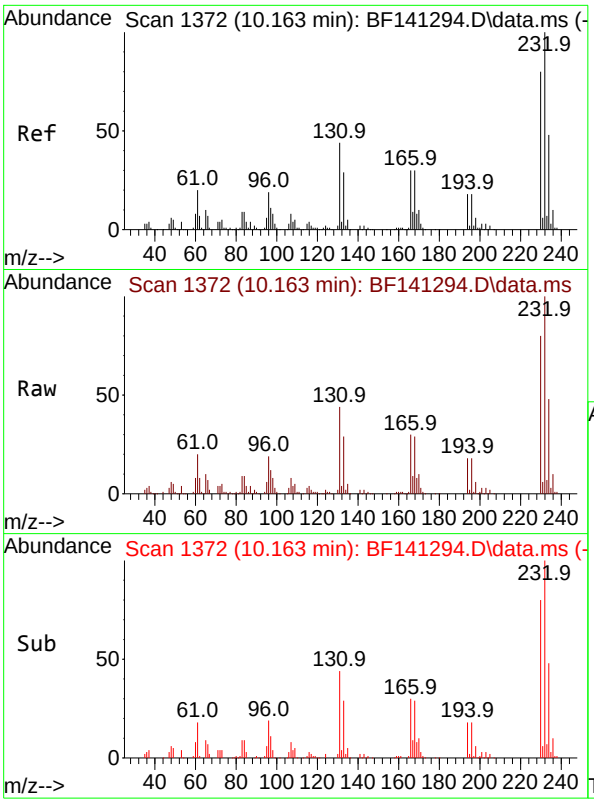


#58
Fluorene
Concen: 37.076 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:166 Resp: 660612

Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.5	116.3
167	13.6	10.9	16.3



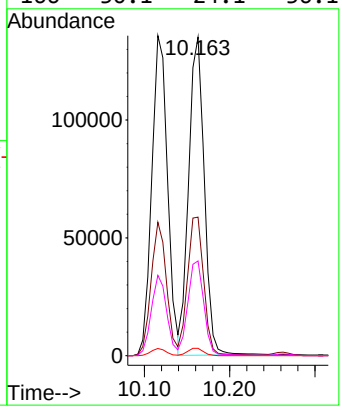


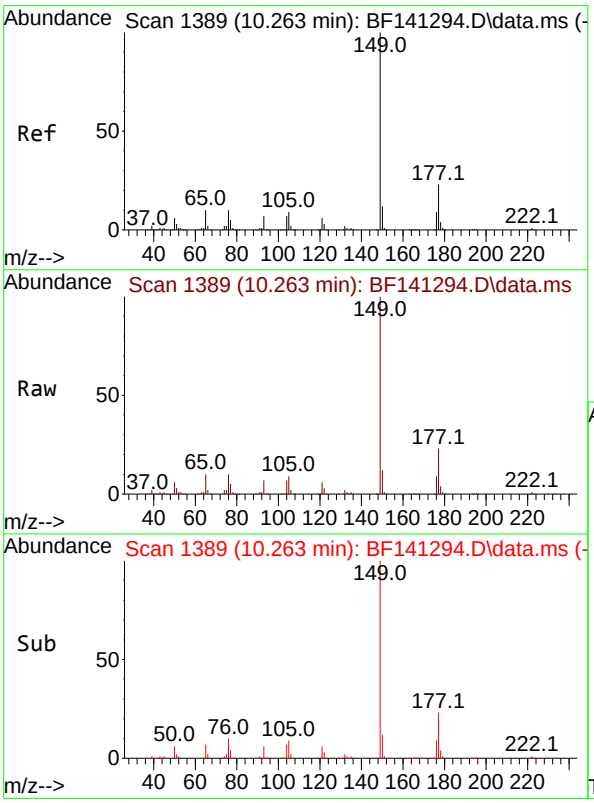
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.138 ng
RT: 10.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 172174

Ion	Ratio	Lower	Upper
232	100		
131	45.5	36.4	54.6
130	2.4	1.9	2.9
166	30.1	24.1	36.1

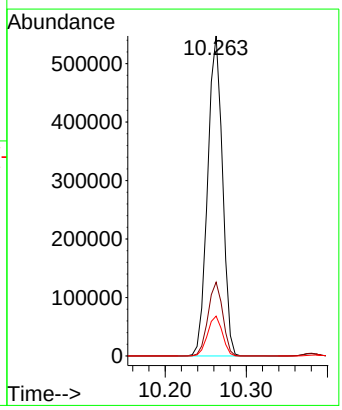


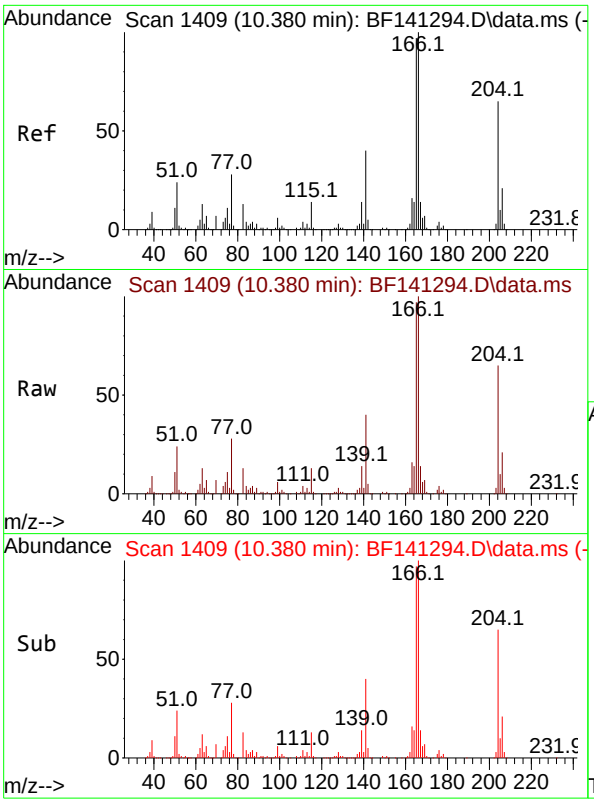


#60
Diethylphthalate
Concen: 37.710 ng
RT: 10.263 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:149 Resp: 693066

Ion	Ratio	Lower	Upper
149	100		
177	23.1	18.5	27.7
150	12.5	10.0	15.0



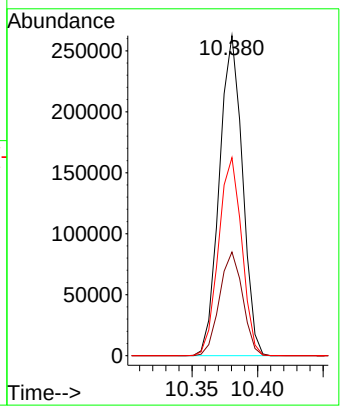


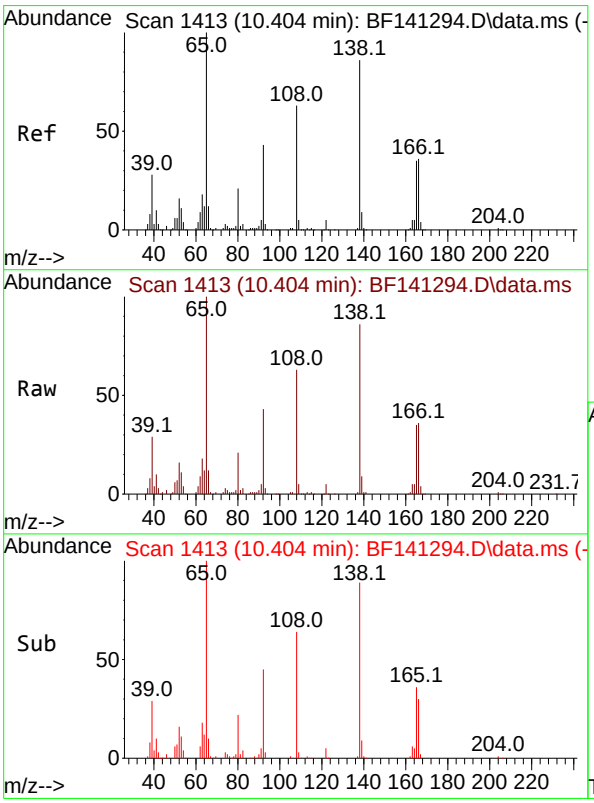
#61
4-Chlorophenyl-phenylether
Concen: 36.929 ng
RT: 10.380 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 321112

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	61.9	49.5	74.3

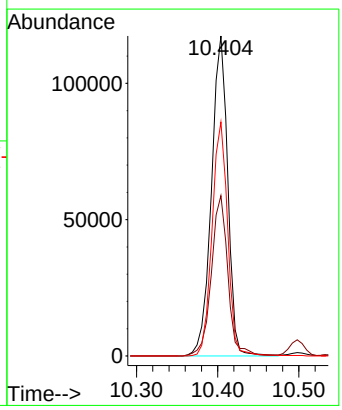


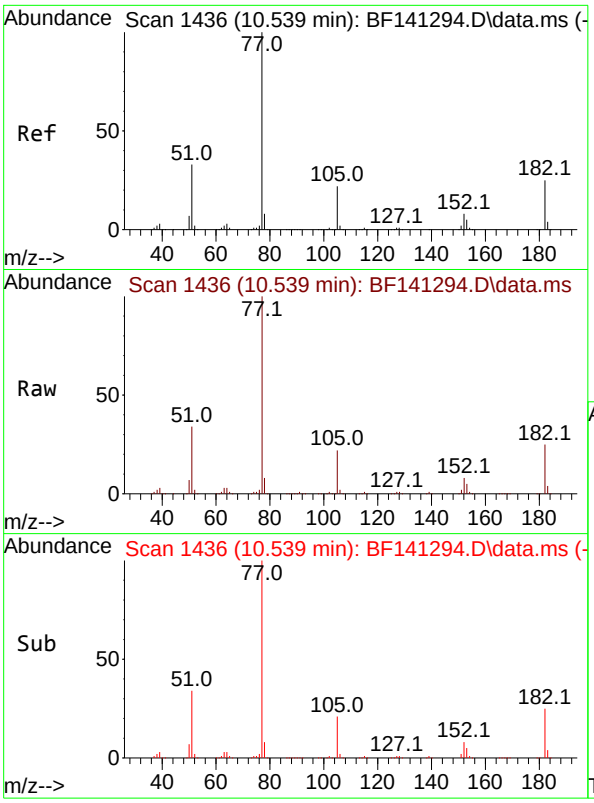


#62
4-Nitroaniline
Concen: 39.120 ng
RT: 10.404 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:138 Resp: 164154

Ion	Ratio	Lower	Upper
138	100		
92	50.1	30.1	70.1
108	73.1	53.1	93.1



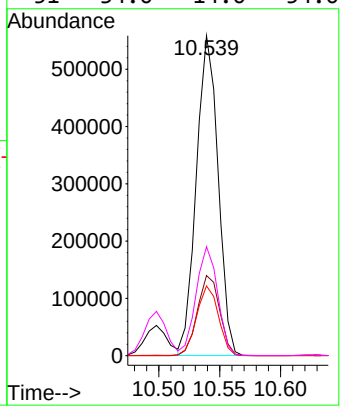


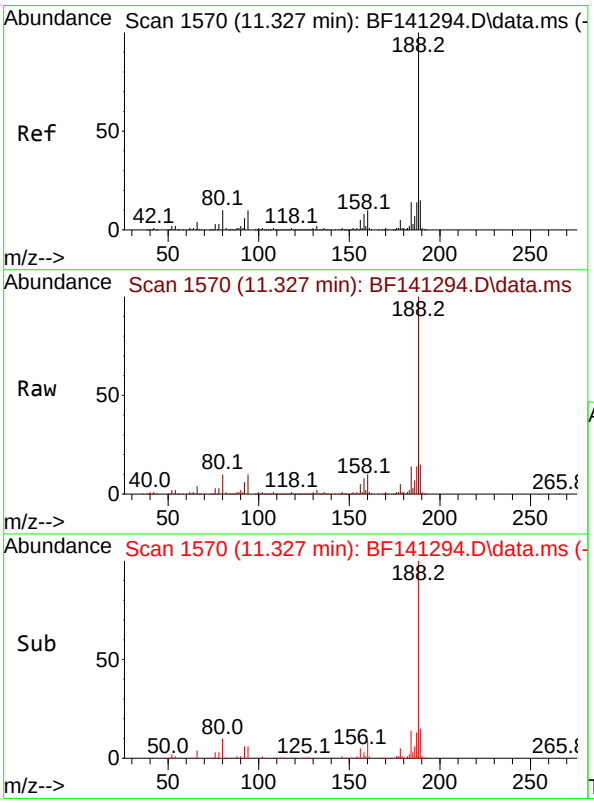
#63
Azobenzene
Concen: 37.621 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 693050

Ion	Ratio	Lower	Upper
77	100		
182	25.1	5.1	45.1
105	21.8	1.8	41.8
51	34.0	14.0	54.0

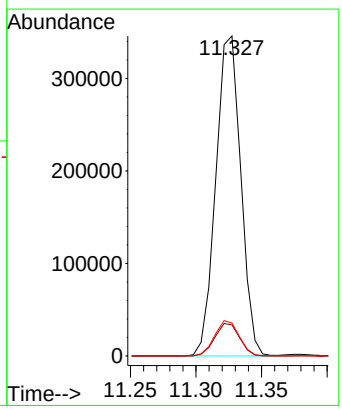


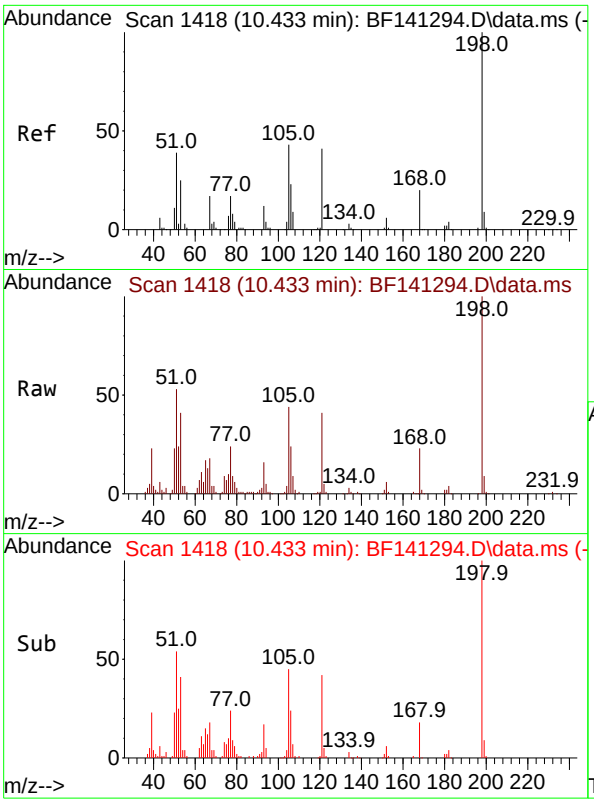


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:188 Resp: 458392

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.8	11.6
80	10.3	8.2	12.4



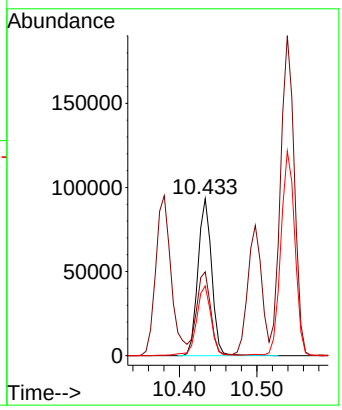


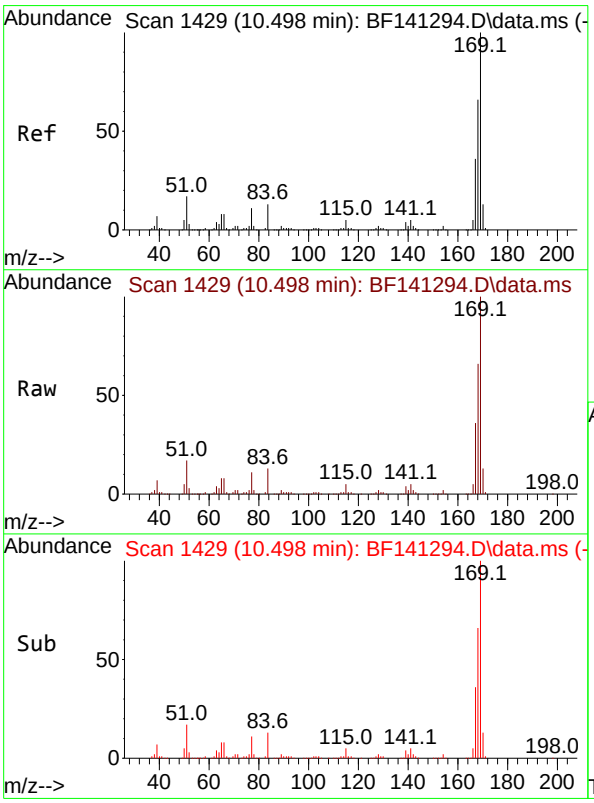
#65
4,6-Dinitro-2-methylphenol
Concen: 41.914 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 114735

Ion	Ratio	Lower	Upper
198	100		
51	53.4	33.4	73.4
105	44.4	24.4	64.4

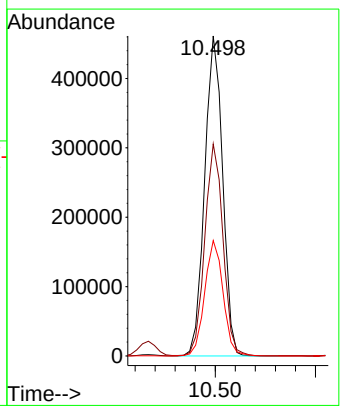


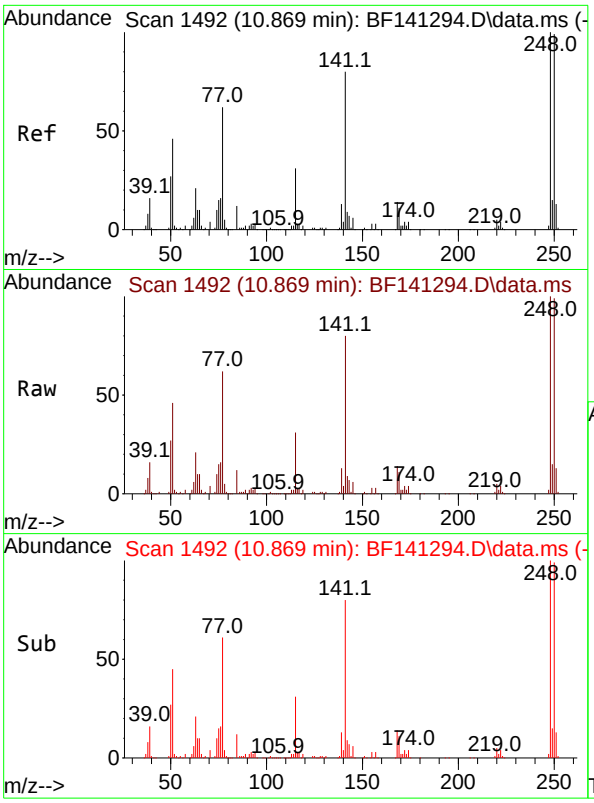


#66
n-Nitrosodiphenylamine
Concen: 38.602 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:169 Resp: 573712

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.4
167	36.0	28.8	43.2



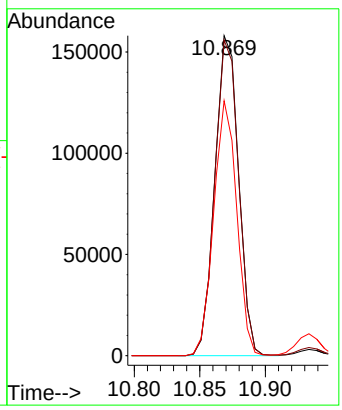


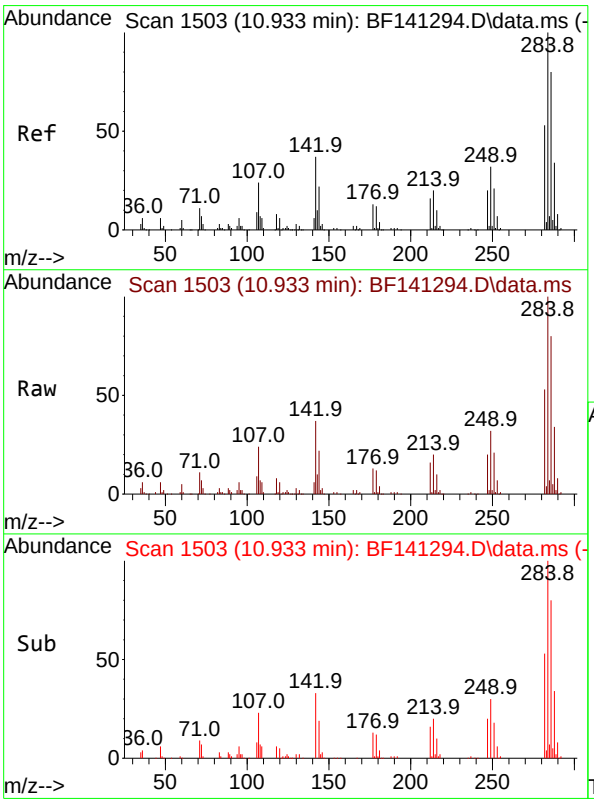
#67
4-Bromophenyl-phenylether
Concen: 38.815 ng
RT: 10.869 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 198895

Ion	Ratio	Lower	Upper
248	100		
250	98.7	79.0	118.4
141	79.6	63.7	95.5

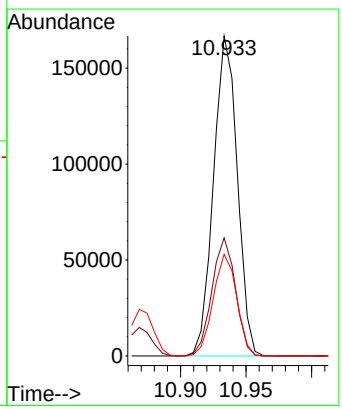


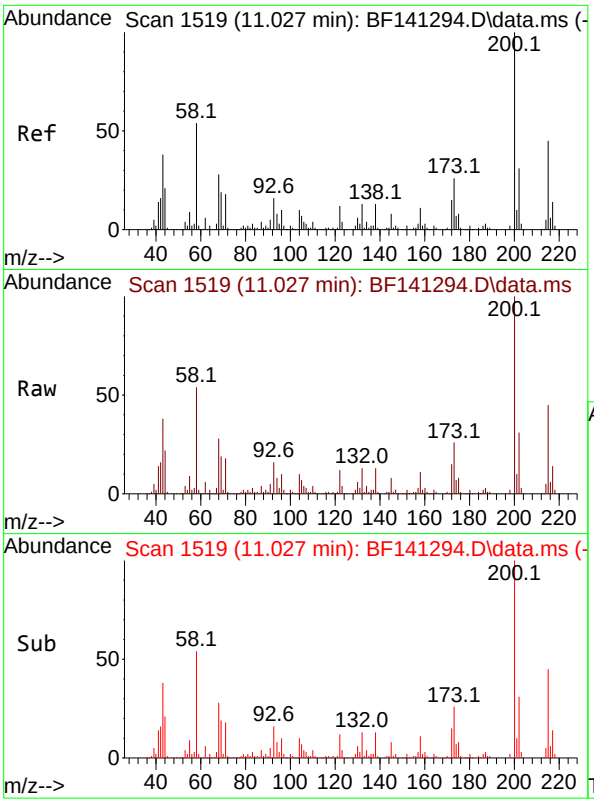


#68
Hexachlorobenzene
Concen: 38.586 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:284 Resp: 209735

Ion	Ratio	Lower	Upper
284	100		
142	36.9	29.5	44.3
249	31.8	25.4	38.2



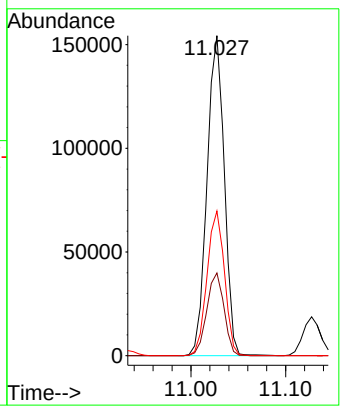


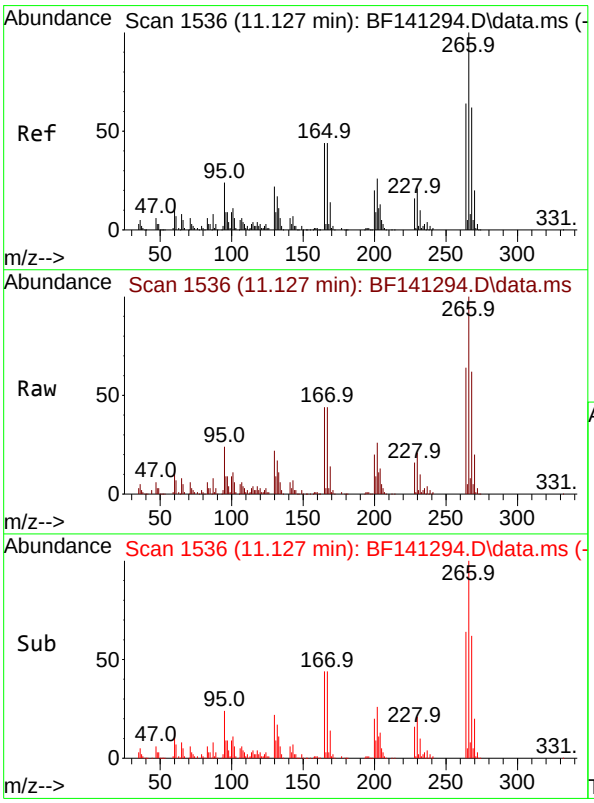
#69
Atrazine
Concen: 39.131 ng
RT: 11.027 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 195062

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	45.2	25.2	65.2

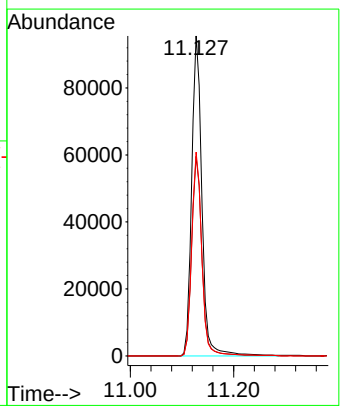


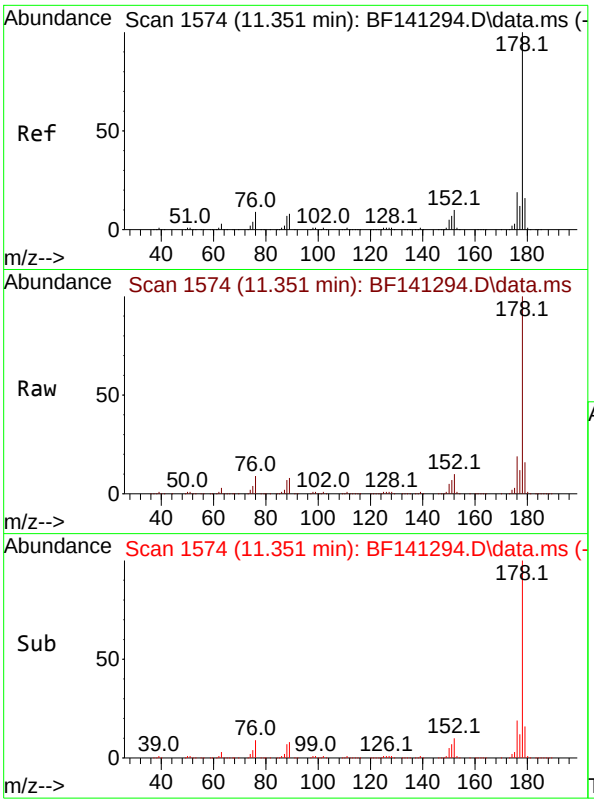


#70
Pentachlorophenol
Concen: 41.196 ng
RT: 11.127 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:266 Resp: 131295

Ion	Ratio	Lower	Upper
266	100		
268	62.4	49.9	74.9
264	63.7	51.0	76.4



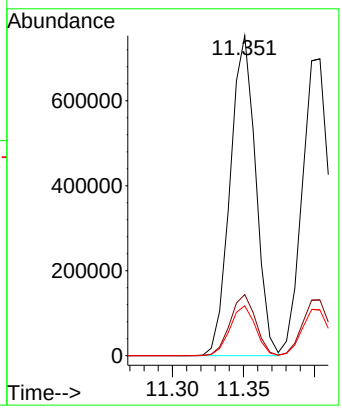


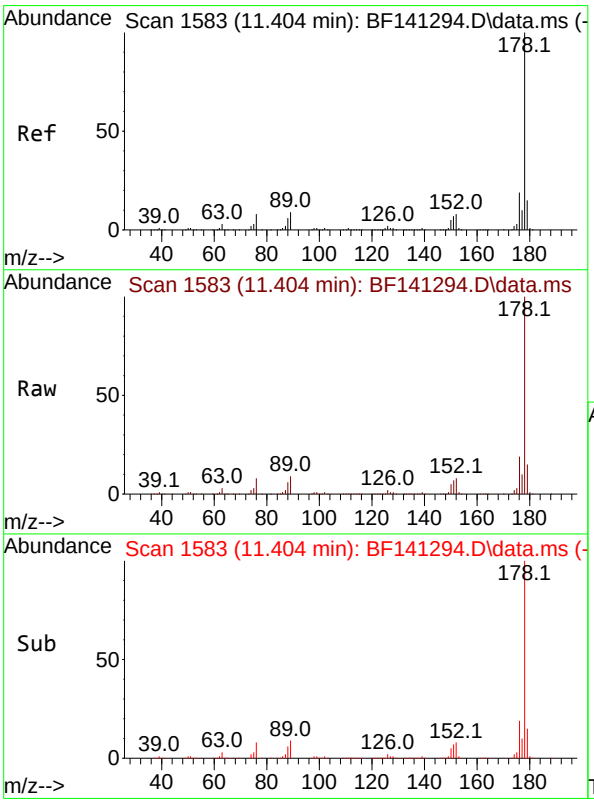
#71
Phenanthrene
Concen: 38.175 ng
RT: 11.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 940021

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.5	18.7

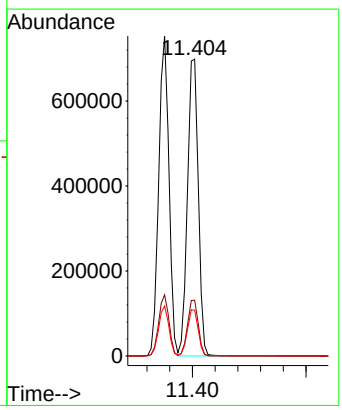


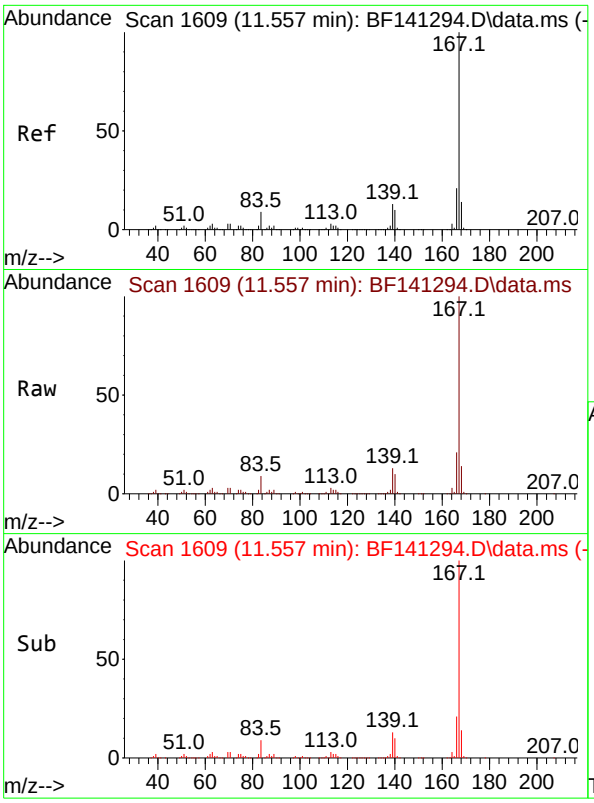


#72
Anthracene
Concen: 38.521 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:178 Resp: 925244

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.3	18.5



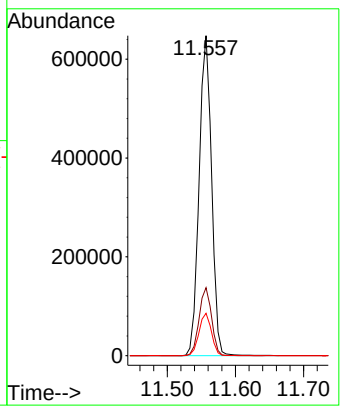


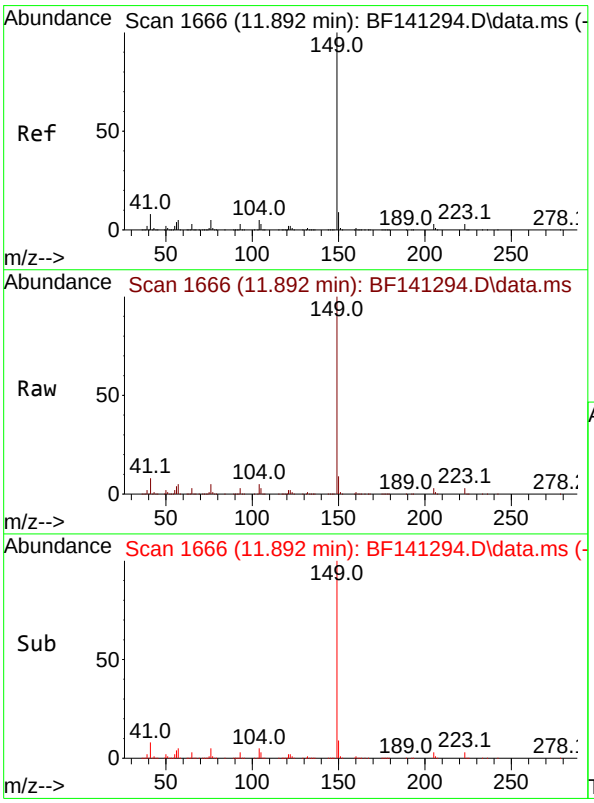
#73
Carbazole
Concen: 38.735 ng
RT: 11.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 824095

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	13.3	10.6	16.0

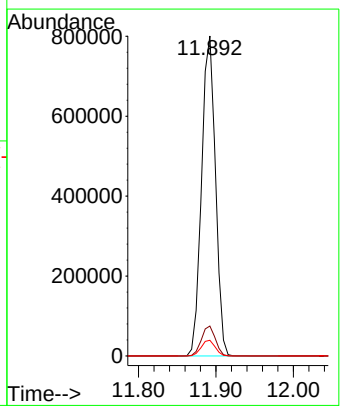


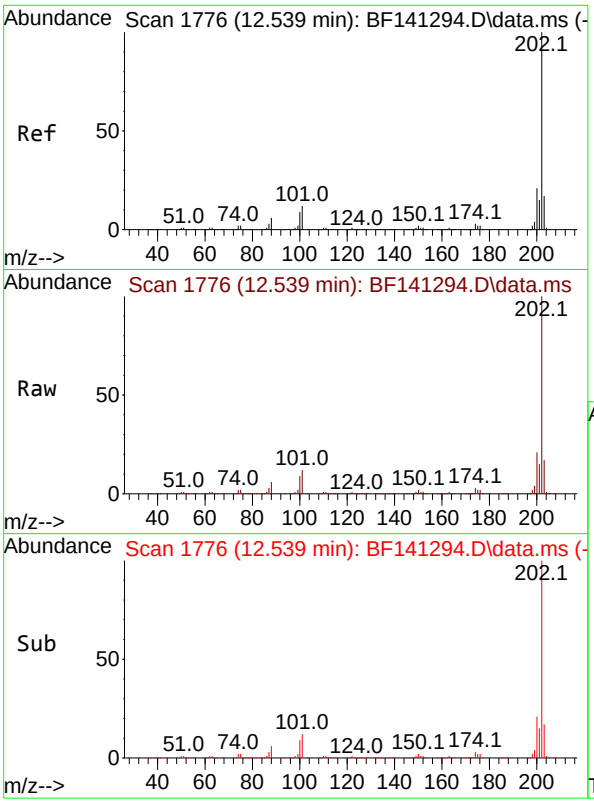


#74
Di-n-butylphthalate
Concen: 38.805 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:149 Resp: 995172

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.9	3.9	5.9



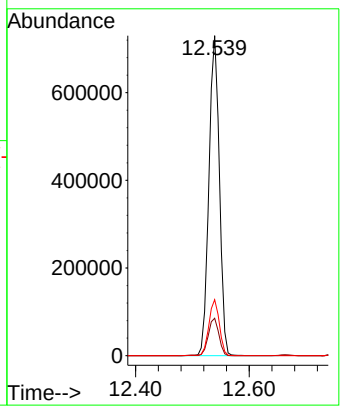


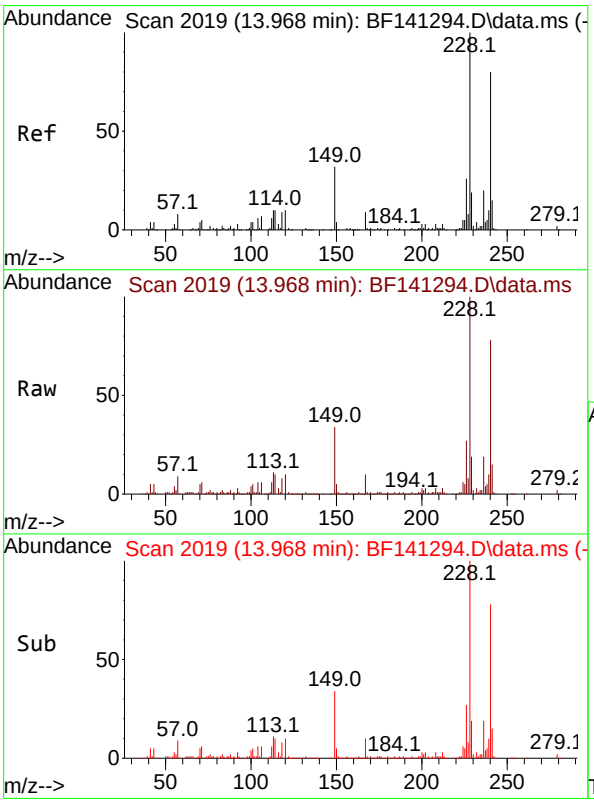
#75
Fluoranthene
Concen: 38.650 ng
RT: 12.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 928946

Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.7
203	17.5	0.0	37.5

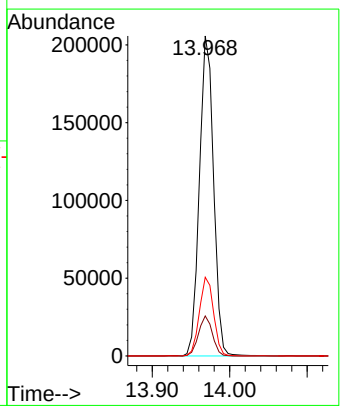


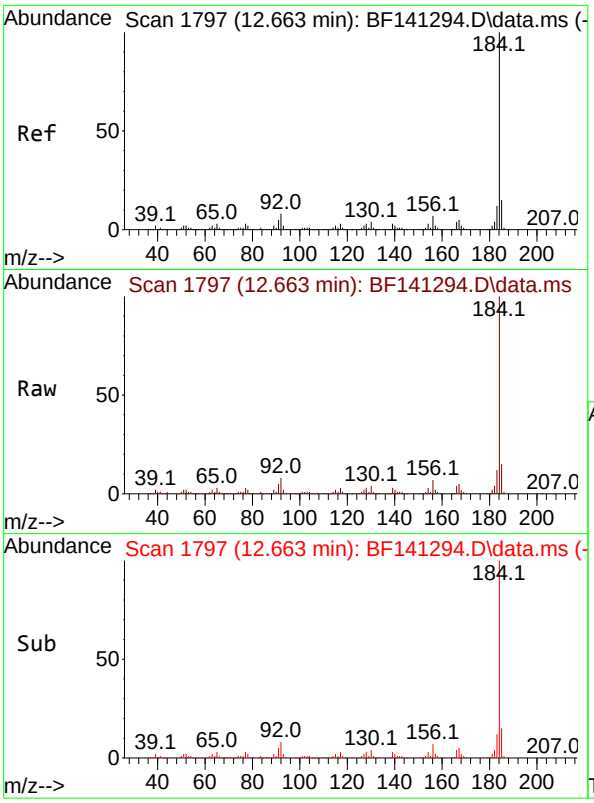


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:240 Resp: 260600

Ion	Ratio	Lower	Upper
240	100		
120	12.5	10.0	15.0
236	24.6	19.7	29.5



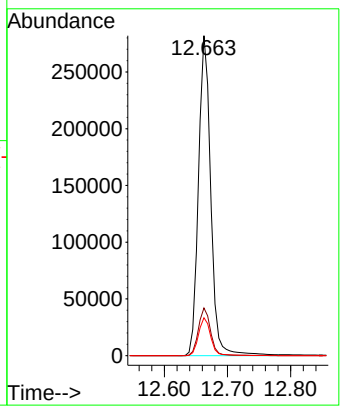


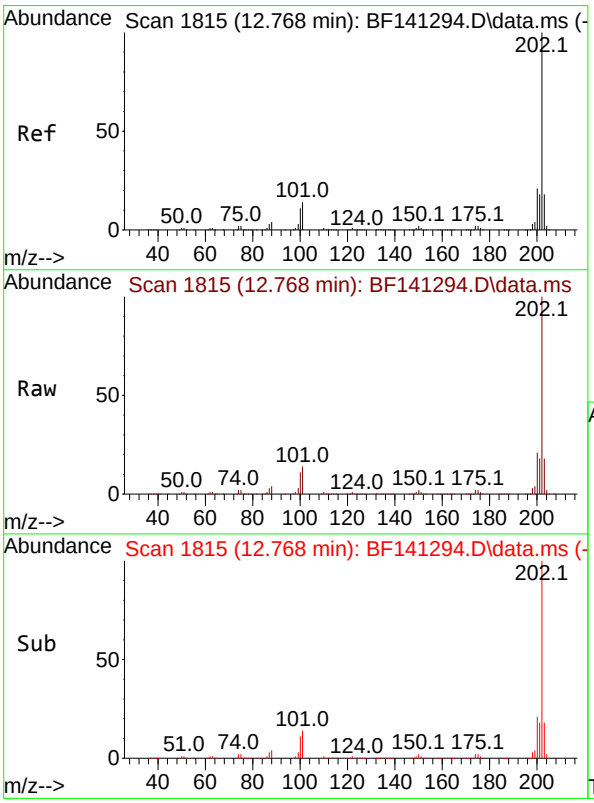
#77
Benzidine
Concen: 48.034 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 380623

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.9	17.9
183	11.9	9.5	14.3

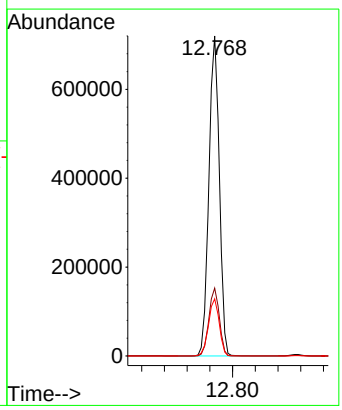


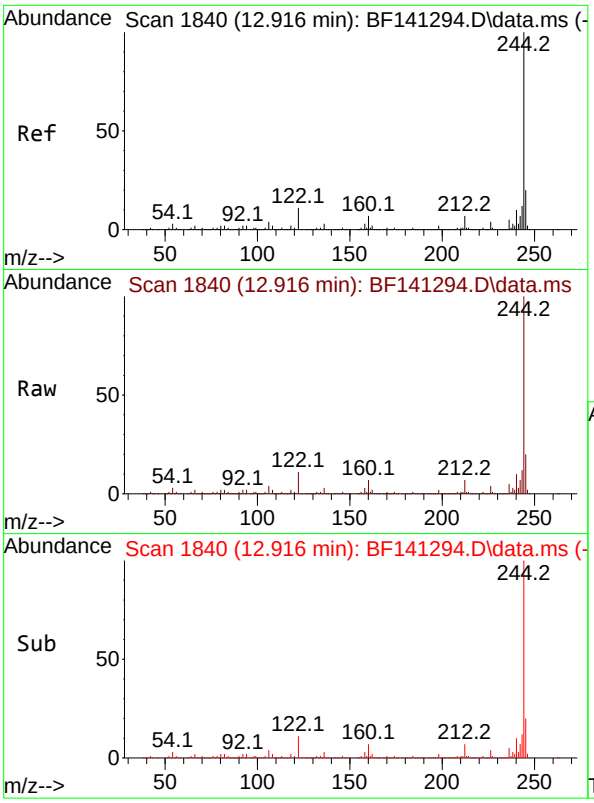


#78
Pyrene
Concen: 36.333 ng
RT: 12.768 min Scan# 1815
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:202 Resp: 914205

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.9	14.3	21.5



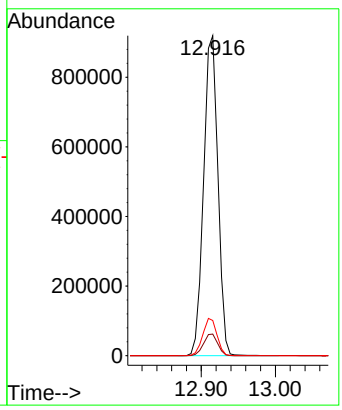


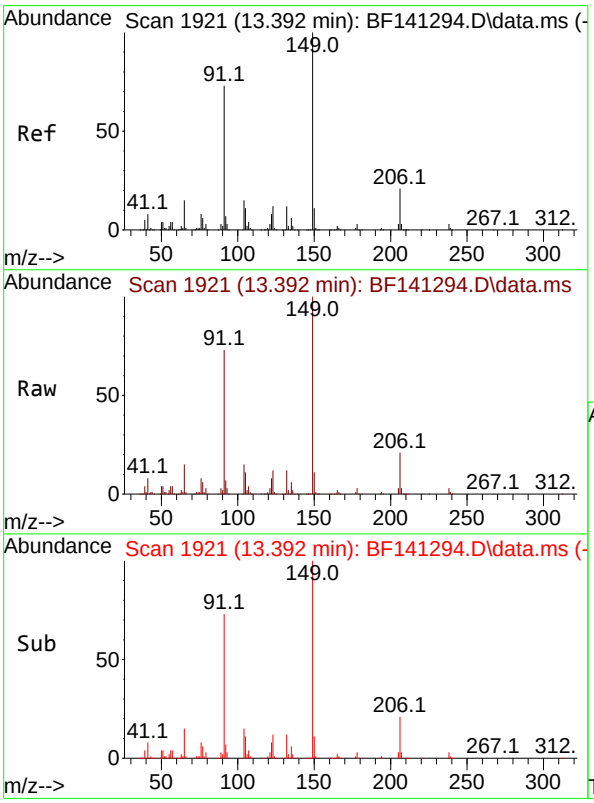
#79
Terphenyl-d14
Concen: 72.802 ng
RT: 12.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 1232977

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.0	8.8	13.2

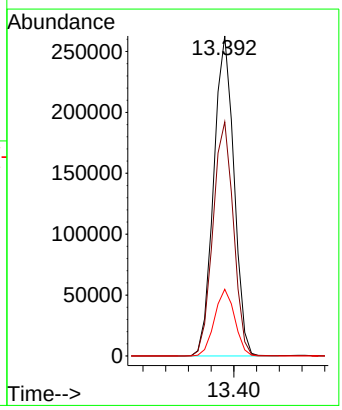


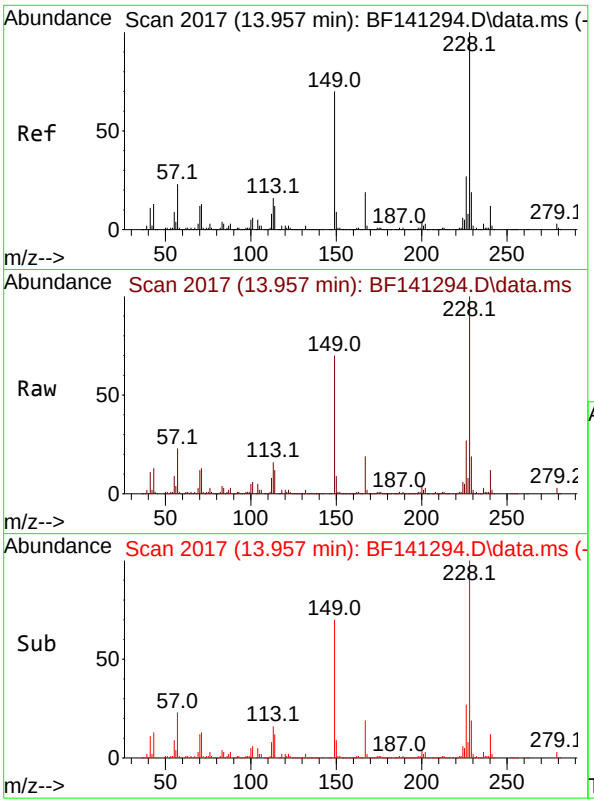


#80
Butylbenzylphthalate
Concen: 37.532 ng
RT: 13.392 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:149 Resp: 326158

Ion	Ratio	Lower	Upper
149	100		
91	73.2	58.6	87.8
206	20.9	16.7	25.1



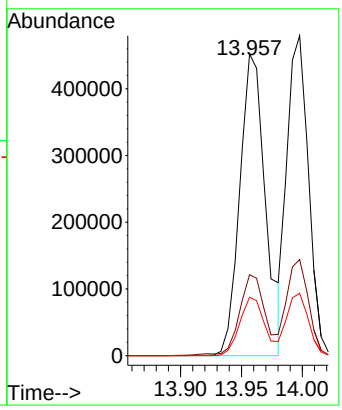


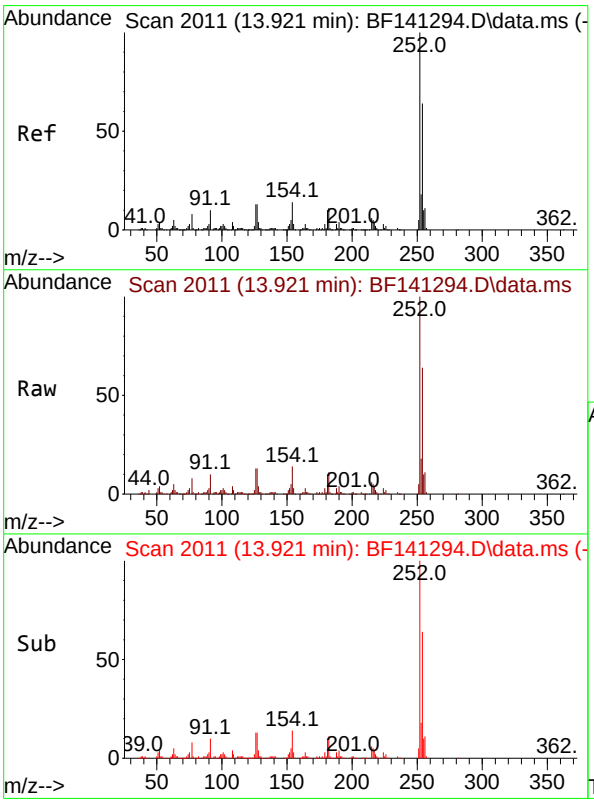
#81
Benzo(a)anthracene
Concen: 37.062 ng
RT: 13.957 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 661997

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.4	32.2
229	19.4	15.5	23.3

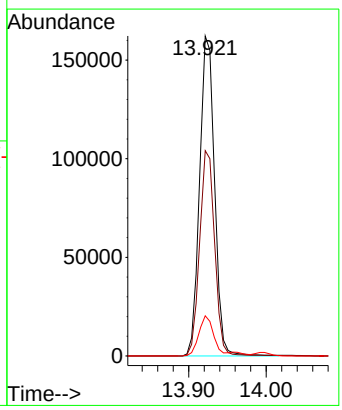


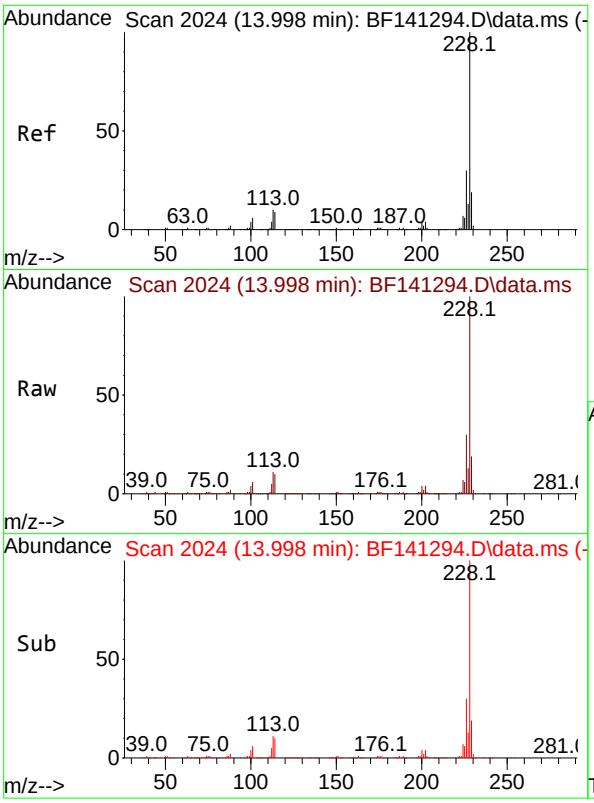


#82
3,3'-Dichlorobenzidine
Concen: 38.953 ng
RT: 13.921 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:252 Resp: 217856

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.3	76.9
126	12.5	10.0	15.0



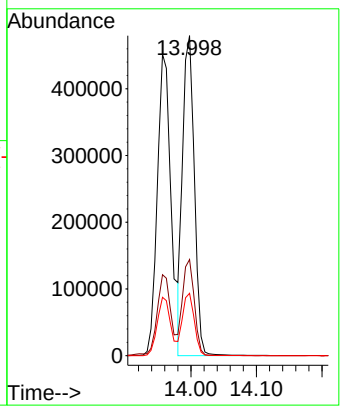


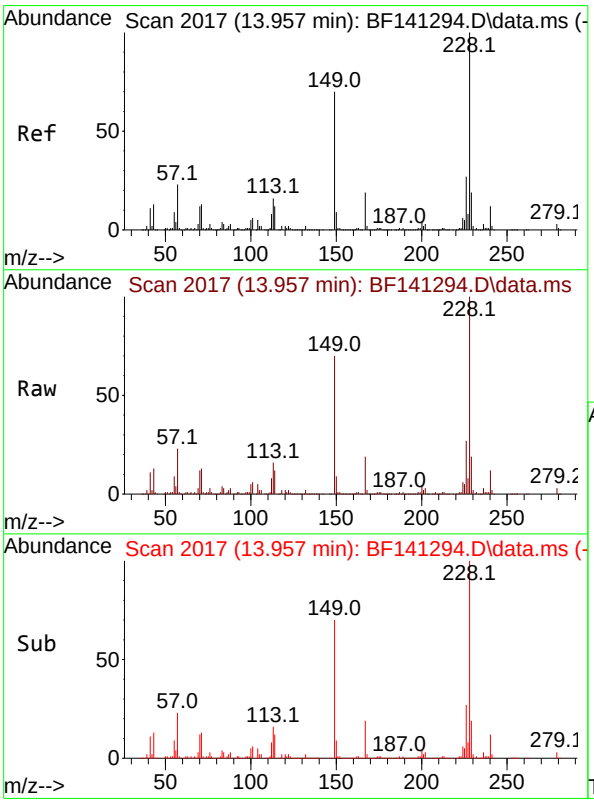
#83
Chrysene
Concen: 35.738 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 591939

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.5	15.6	23.4

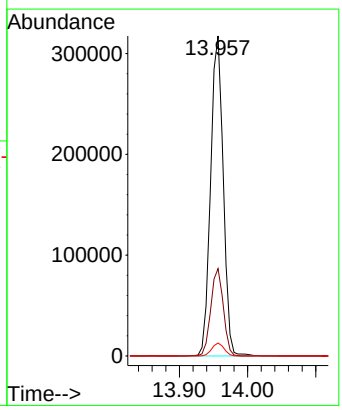


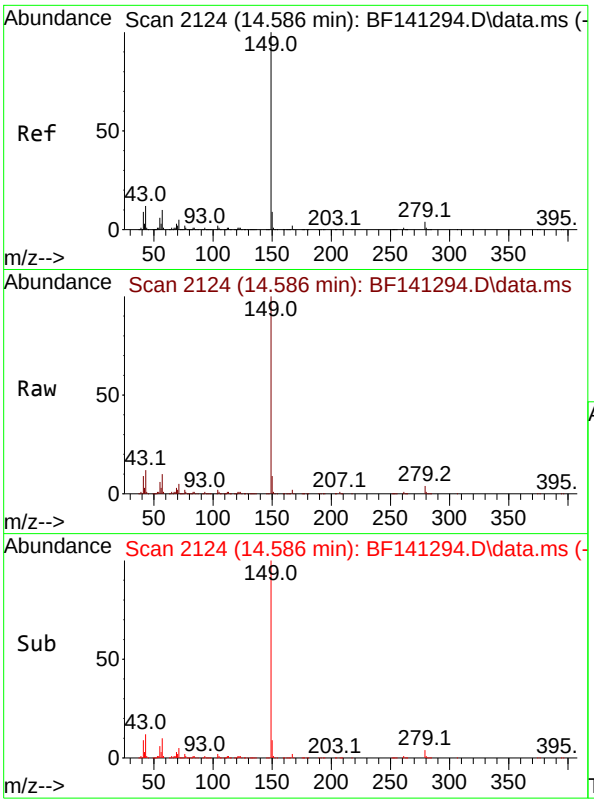


#84
Bis(2-ethylhexyl)phthalate
Concen: 37.540 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:149 Resp: 409365

Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.8
279	4.1	3.3	4.9



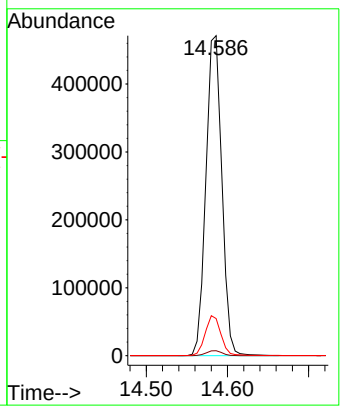


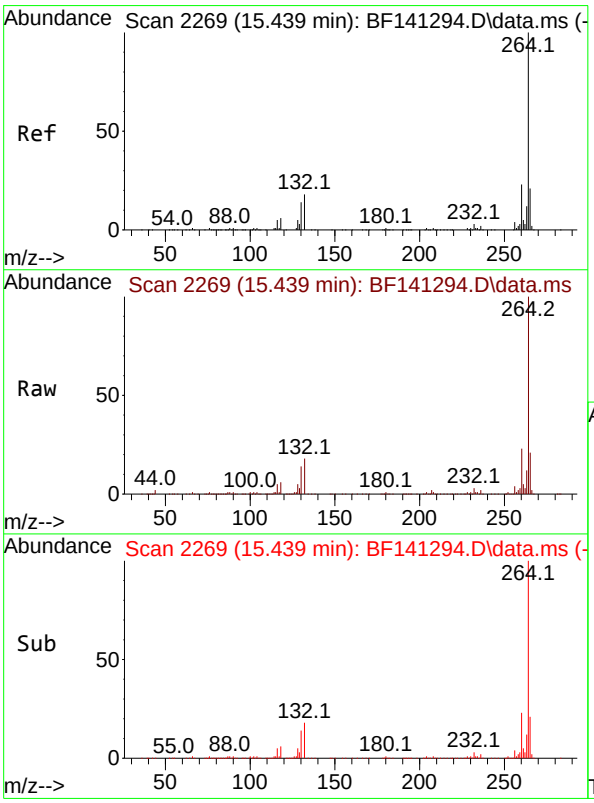
#85
Di-n-octyl phthalate
Concen: 37.578 ng
RT: 14.586 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 640977

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.3	9.8	14.8

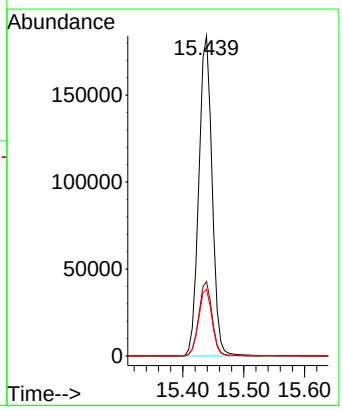


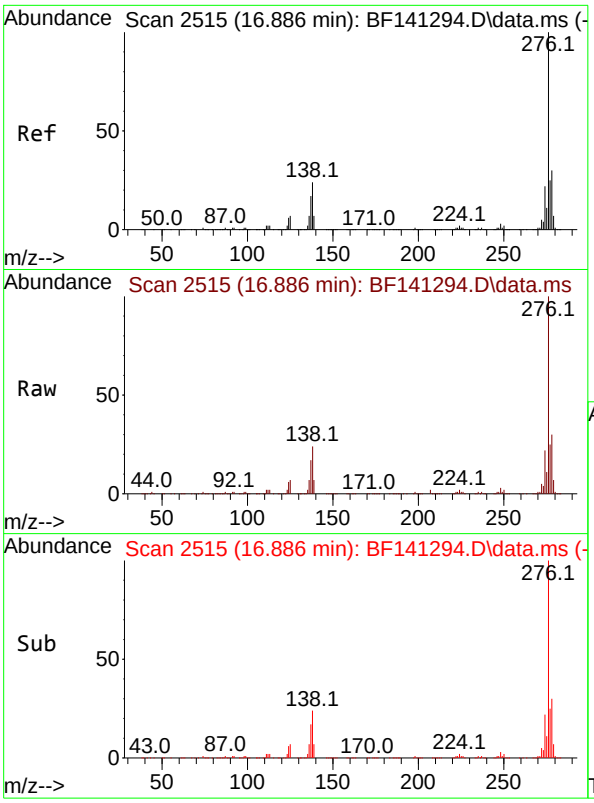


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:264 Resp: 279417

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	27.8
265	20.9	16.7	25.1



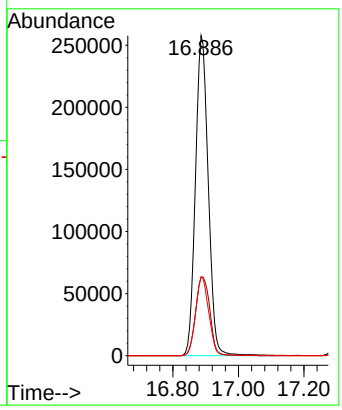


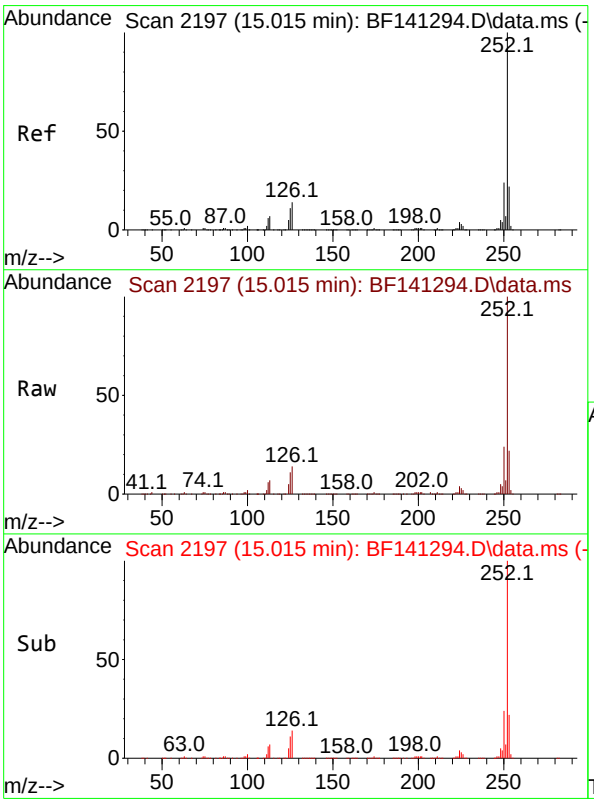
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.503 ng
RT: 16.886 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 702692

Ion	Ratio	Lower	Upper
276	100		
138	27.1	21.7	32.5
277	25.4	20.3	30.5

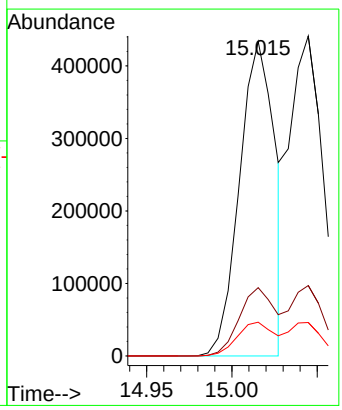


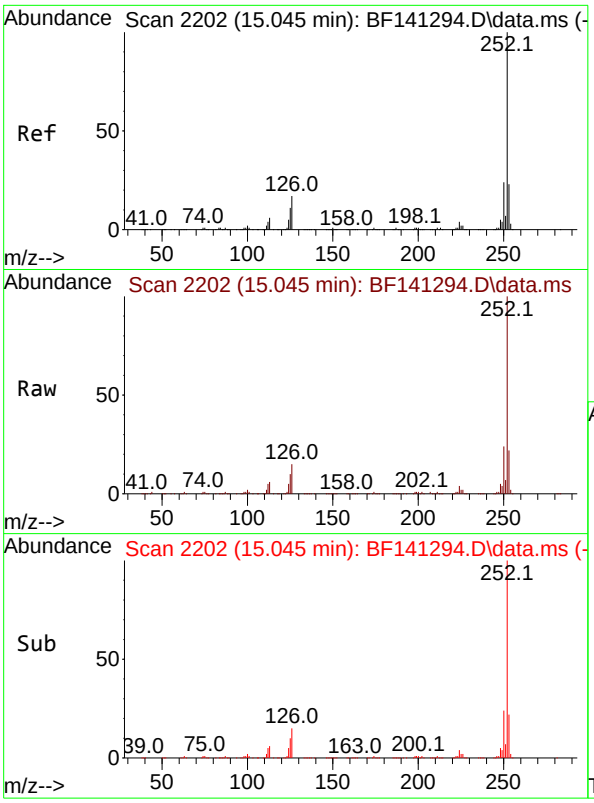


#88
Benzo(b)fluoranthene
Concen: 36.061 ng
RT: 15.015 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:252 Resp: 625758

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	10.7	8.6	12.8



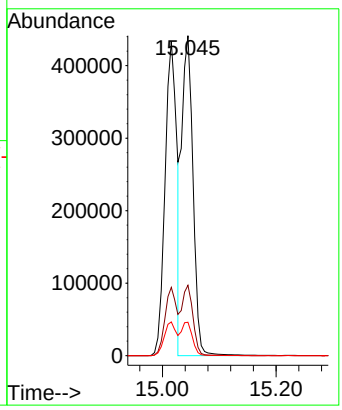


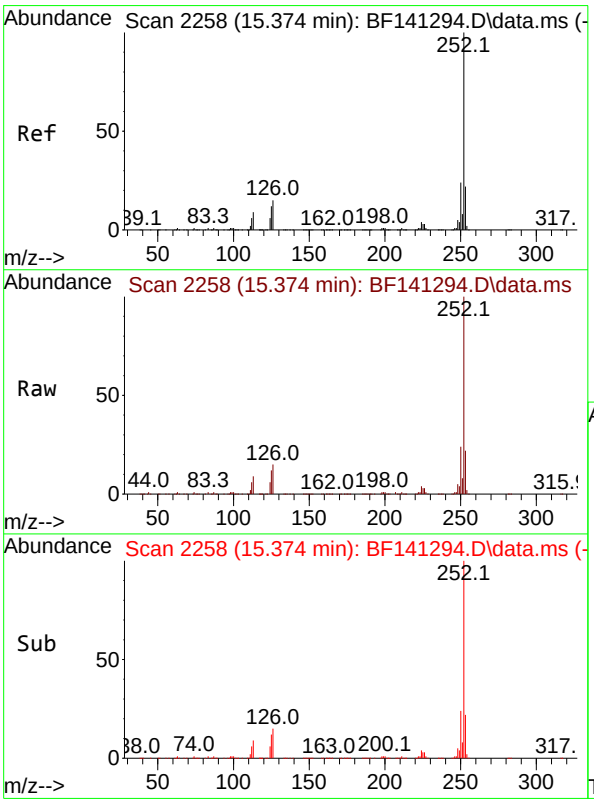
#89
Benzo(k)fluoranthene
Concen: 38.959 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 605401

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	10.5	8.4	12.6

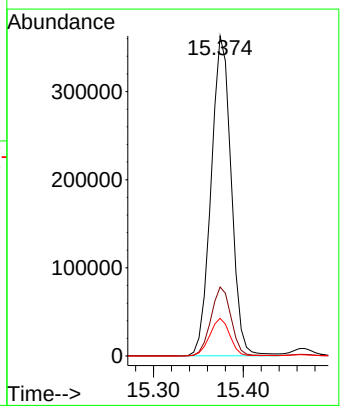


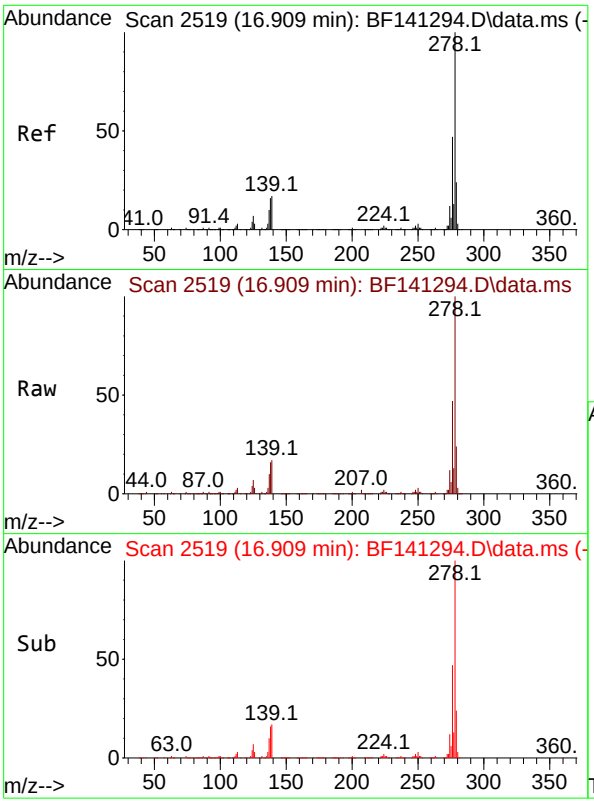


#90
Benzo(a)pyrene
Concen: 38.096 ng
RT: 15.374 min Scan# 2258
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:252 Resp: 564975

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	11.8	9.4	14.2



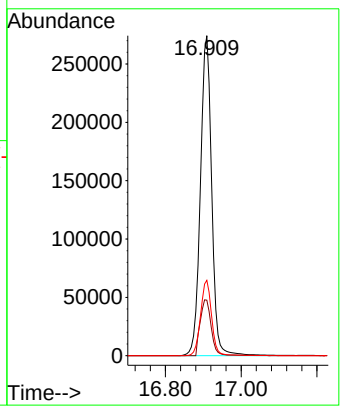


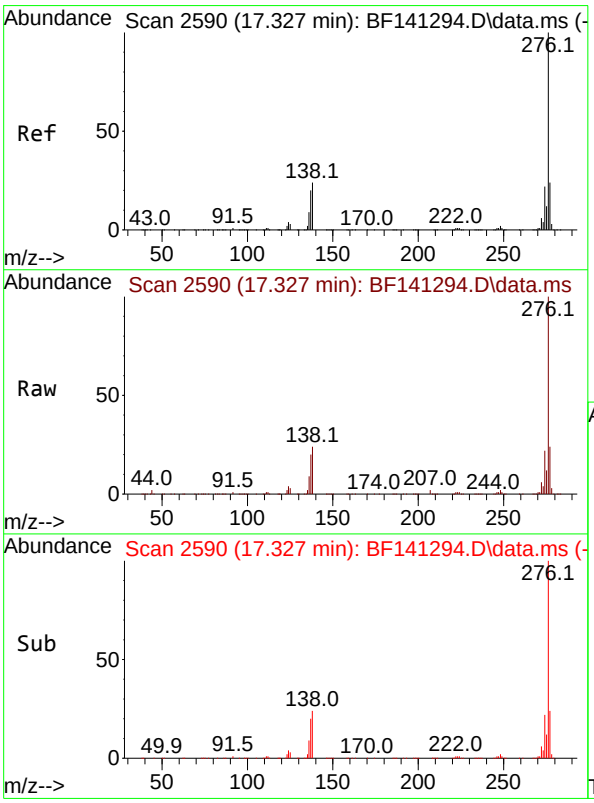
#91
Dibenzo(a,h)anthracene
Concen: 38.812 ng
RT: 16.909 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 567762

Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.9	20.9
279	23.5	18.8	28.2

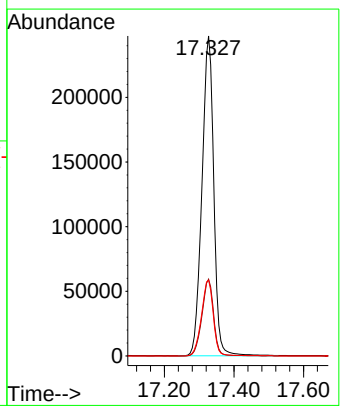




#92
Benzo(g,h,i)perylene
Concen: 37.870 ng
RT: 17.327 min Scan# 2590
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:276 Resp: 582768

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	23.7	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141295.D
Acq On : 29 Jan 2025 16:11
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	130633	20.000	ng		0.00
21) Naphthalene-d8	8.081	136	511843	20.000	ng		0.00
39) Acenaphthene-d10	9.839	164	269662	20.000	ng		0.00
64) Phenanthrene-d10	11.322	188	442506	20.000	ng		0.00
76) Chrysene-d12	13.968	240	226571	20.000	ng		0.00
86) Perylene-d12	15.439	264	272084	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	827672	97.984	ng		0.00
7) Phenol-d6	6.428	99	1052381	97.751	ng		0.00
23) Nitrobenzene-d5	7.369	82	955368	98.761	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	235884	95.997	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	1620825	92.721	ng		0.00
79) Terphenyl-d14	12.916	244	1402103	95.222	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.493	88	187460	49.995	ng		98
3) Pyridine	3.222	79	455306	50.773	ng		100
4) n-Nitrosodimethylamine	3.181	42	262086	51.033	ng		100
6) Aniline	6.463	93	458390	50.942	ng		97
8) 2-Chlorophenol	6.587	128	441862	48.707	ng		98
9) Benzaldehyde	6.351	77	281326	44.996	ng		98
10) Phenol	6.445	94	553844	48.628	ng		95
11) bis(2-Chloroethyl)ether	6.539	93	424248	48.433	ng		98
12) 1,3-Dichlorobenzene	6.739	146	489386	48.913	ng		100
13) 1,4-Dichlorobenzene	6.816	146	490392	48.671	ng		99
14) 1,2-Dichlorobenzene	6.975	146	454569	48.279	ng		99
15) Benzyl Alcohol	6.939	79	371274	50.480	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	749938	49.280	ng		99
17) 2-Methylphenol	7.051	107	361469	49.214	ng		99
18) Hexachloroethane	7.310	117	182933	49.073	ng		99
19) n-Nitroso-di-n-propyla...	7.216	70	305749	47.753	ng		98
20) 3+4-Methylphenols	7.210	107	434743	48.143	ng		94
22) Acetophenone	7.210	105	574700	47.365	ng	#	97
24) Nitrobenzene	7.386	77	492082	49.046	ng		98
25) Isophorone	7.622	82	818496	48.959	ng		99
26) 2-Nitrophenol	7.698	139	242228	51.545	ng		99
27) 2,4-Dimethylphenol	7.734	122	300079m	49.969	ng		
28) bis(2-Chloroethoxy)met...	7.833	93	518825	48.701	ng		99
29) 2,4-Dichlorophenol	7.939	162	363275	49.507	ng		100
30) 1,2,4-Trichlorobenzene	8.022	180	406562	48.309	ng		100
31) Naphthalene	8.104	128	1304758	48.468	ng		100
32) Benzoic acid	7.857	122	308525	56.571	ng		99
33) 4-Chloroaniline	8.151	127	449543	49.712	ng		100
34) Hexachlorobutadiene	8.222	225	243308	49.395	ng		99
35) Caprolactam	8.528	113	120078	50.594	ng		97
36) 4-Chloro-3-methylphenol	8.633	107	385683	48.973	ng		98
37) 2-Methylnaphthalene	8.792	142	822986	48.006	ng		99
38) 1-Methylnaphthalene	8.892	142	799136	47.586	ng		100
40) 1,2,4,5-Tetrachloroben...	8.963	216	373963	48.774	ng		100
41) Hexachlorocyclopentadiene	8.945	237	122470	53.227	ng		100
43) 2,4,6-Trichlorophenol	9.069	196	252974	50.545	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141295.D
Acq On : 29 Jan 2025 16:11
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	263745	48.438	ng	98
46) 1,1'-Biphenyl	9.263	154	1005774	47.808	ng	99
47) 2-Chloronaphthalene	9.286	162	781613	47.835	ng	99
48) 2-Nitroaniline	9.380	65	257199	49.907	ng	98
49) Acenaphthylene	9.698	152	1092234	47.595	ng	100
50) Dimethylphthalate	9.563	163	875569	48.419	ng	100
51) 2,6-Dinitrotoluene	9.622	165	204917	48.697	ng	98
52) Acenaphthene	9.875	154	789039	48.322	ng	100
53) 3-Nitroaniline	9.792	138	197832	47.528	ng	99
54) 2,4-Dinitrophenol	9.898	184	105313	53.096	ng	96
55) Dibenzofuran	10.045	168	1028182	47.082	ng	100
56) 4-Nitrophenol	9.951	139	155594	52.067	ng	99
57) 2,4-Dinitrotoluene	10.027	165	264325	48.700	ng	97
58) Fluorene	10.386	166	784644	46.215	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	205508	47.772	ng	98
60) Diethylphthalate	10.263	149	834803	47.668	ng	99
61) 4-Chlorophenyl-phenyle...	10.380	204	380948	45.976	ng	99
62) 4-Nitroaniline	10.404	138	198241	49.579	ng	98
63) Azobenzene	10.539	77	841797	47.955	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	144574	54.710	ng	97
66) n-Nitrosodiphenylamine	10.498	169	688202	47.968	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	241123	48.745	ng	99
68) Hexachlorobenzene	10.933	284	253174	48.250	ng	100
69) Atrazine	11.027	200	237991	49.457	ng	98
70) Pentachlorophenol	11.127	266	161568	52.515	ng	99
71) Phenanthrene	11.351	178	1114920	46.903	ng	99
72) Anthracene	11.404	178	1105681	47.686	ng	100
73) Carbazole	11.557	167	971542	47.304	ng	99
74) Di-n-butylphthalate	11.892	149	1162607	46.961	ng	100
75) Fluoranthene	12.539	202	1065514	45.923	ng	100
77) Benzidine	12.663	184	513358	74.515	ng	99
78) Pyrene	12.768	202	1059044	48.410	ng	99
80) Butylbenzylphthalate	13.392	149	371889	49.222	ng	99
81) Benzo(a)anthracene	13.963	228	778922	50.158	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	270572	55.645	ng	99
83) Chrysene	13.998	228	717569	49.829	ng	99
84) Bis(2-ethylhexyl)phtha...	13.957	149	470441	49.620	ng	99
85) Di-n-octyl phthalate	14.586	149	773037	52.127	ng	100
87) Indeno(1,2,3-cd)pyrene	16.892	276	916714	51.584	ng	100
88) Benzo(b)fluoranthene	15.015	252	860351	50.916	ng	100
89) Benzo(k)fluoranthene	15.045	252	713500	47.153	ng	99
90) Benzo(a)pyrene	15.380	252	721834	49.985	ng	100
91) Dibenzo(a,h)anthracene	16.915	278	739397	51.907	ng	100
92) Benzo(g,h,i)perylene	17.333	276	764064	50.990	ng	99

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

ICAL Form

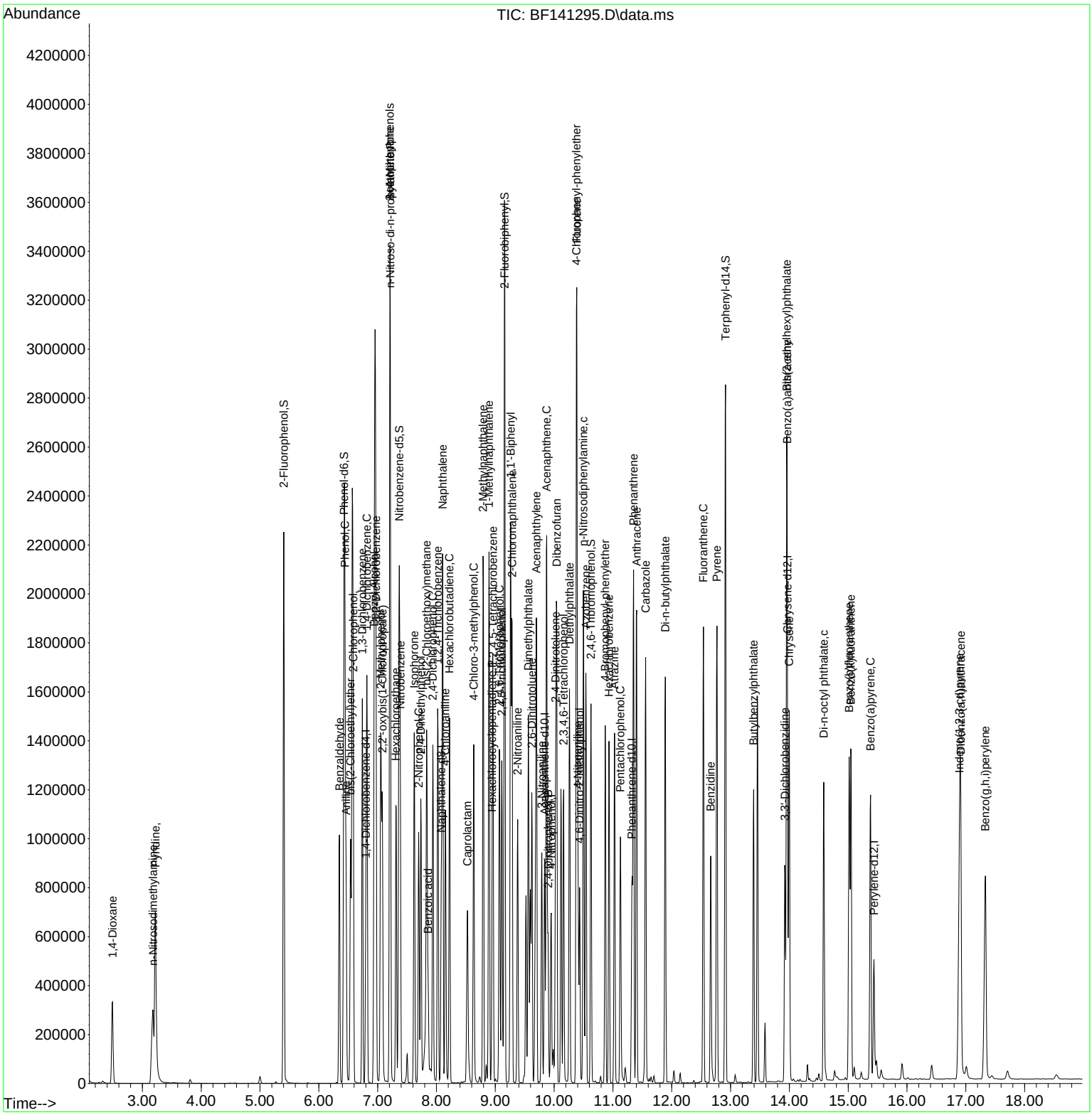
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141295.D
Acq On : 29 Jan 2025 16:11
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

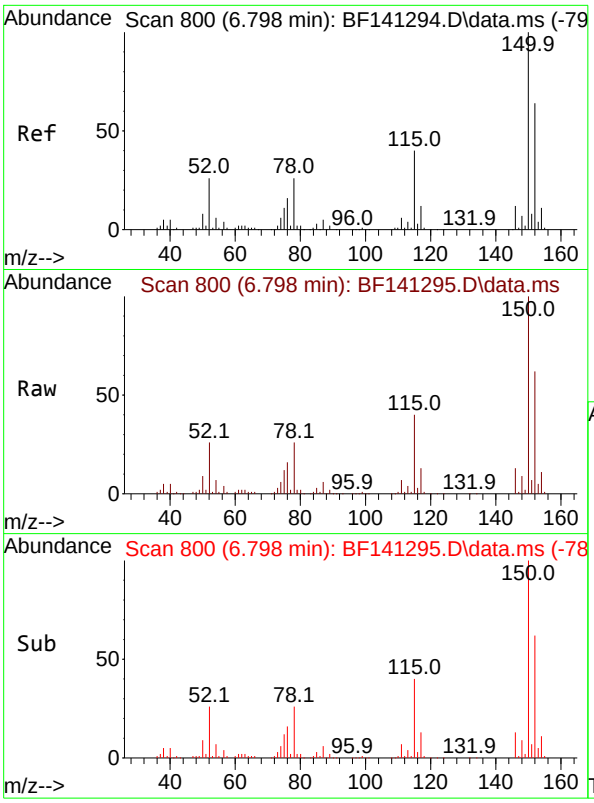
Quant Time: Jan 29 17:01:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

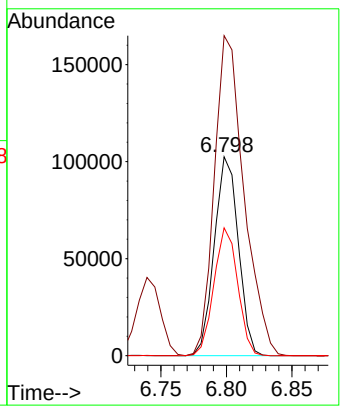




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:152 Resp: 13063

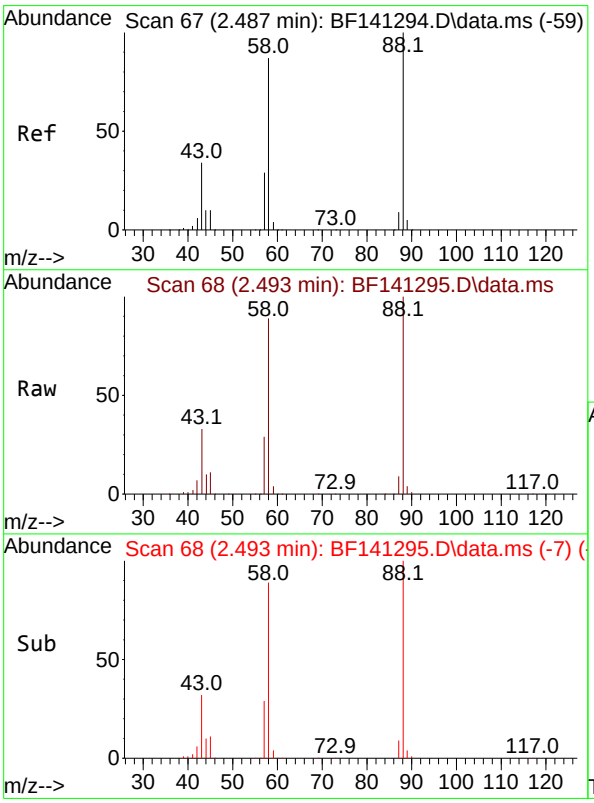
Ion	Ratio	Lower	Upper
152	100		
150	160.9	125.9	188.9
115	64.3	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

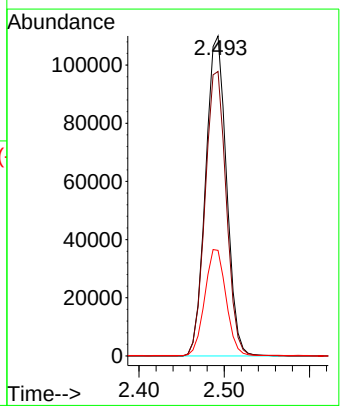
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

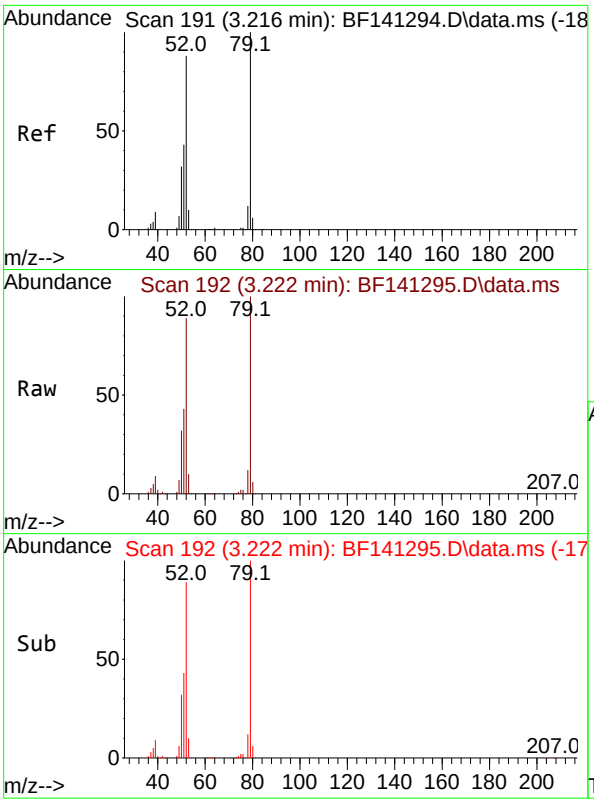


#2
1,4-Dioxane
Concen: 49.995 ng
RT: 2.493 min Scan# 68
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 88 Resp: 187460

Ion	Ratio	Lower	Upper
88	100		
58	89.8	70.2	105.4
43	33.5	27.6	41.4

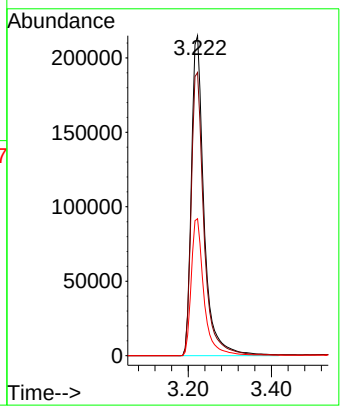




#3
Pyridine
Concen: 50.773 ng
RT: 3.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 79 Resp: 45530

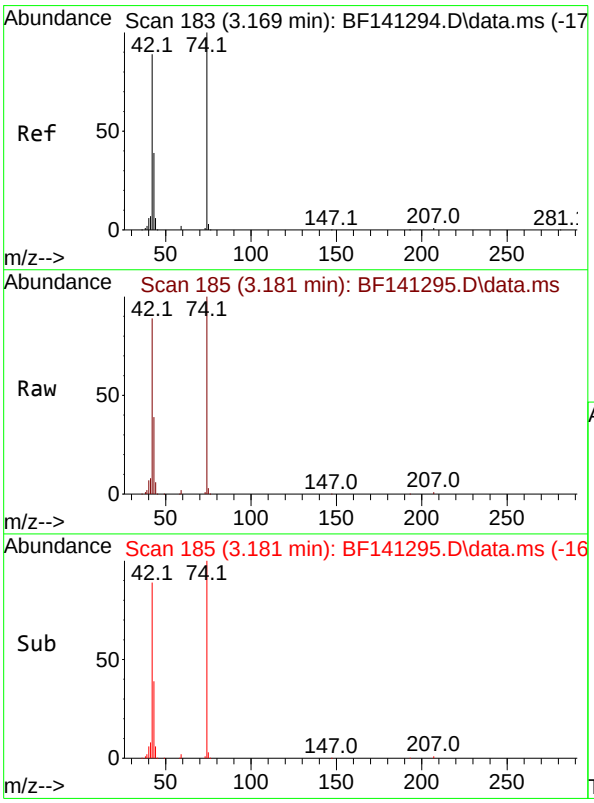
Ion	Ratio	Lower	Upper
79	100		
52	88.5	70.3	105.5
51	42.8	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

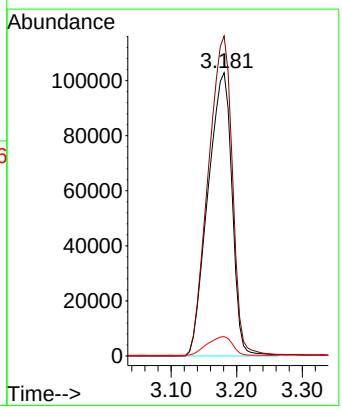
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

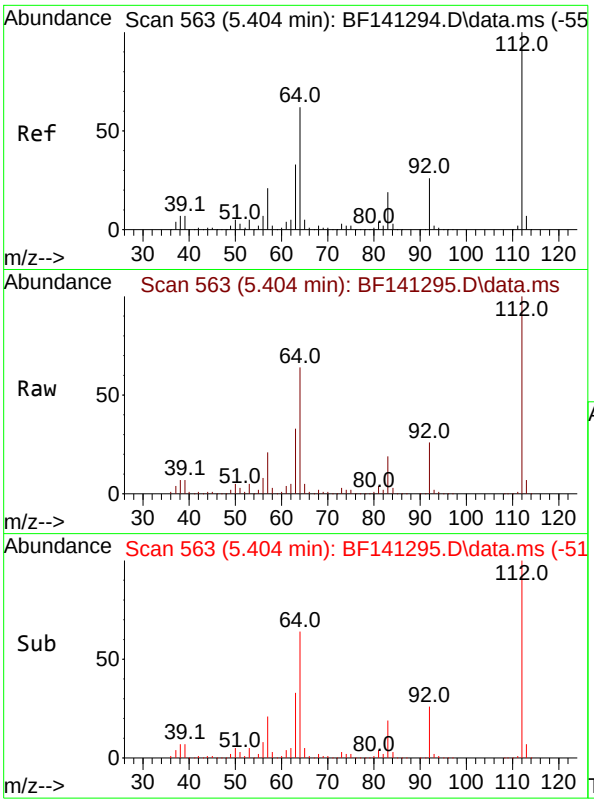


#4
n-Nitrosodimethylamine
Concen: 51.033 ng
RT: 3.181 min Scan# 185
Delta R.T. 0.012 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 42 Resp: 262086

Ion	Ratio	Lower	Upper
42	100		
74	113.0	90.3	135.5
44	6.8	5.7	8.5

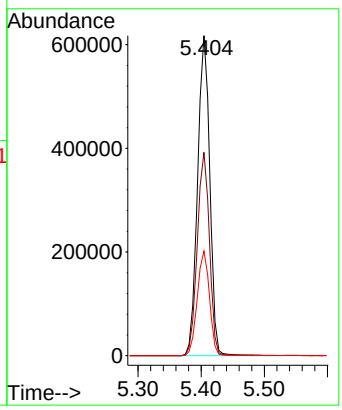




#5
2-Fluorophenol
Concen: 97.984 ng
RT: 5.404 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:112 Resp: 82767

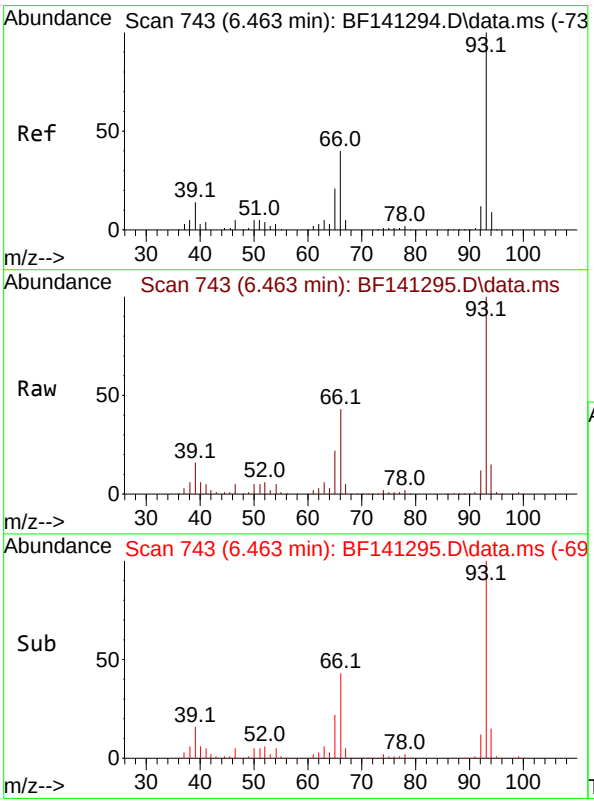
Ion	Ratio	Lower	Upper
112	100		
64	63.5	49.8	74.8
63	32.7	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

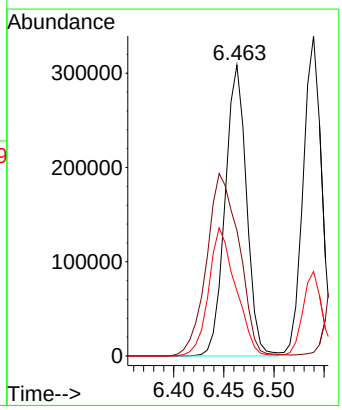
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

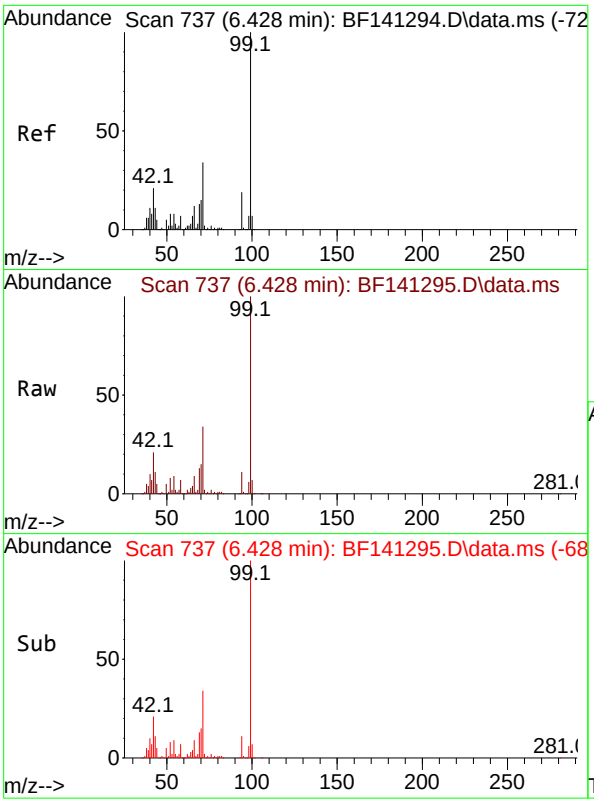


#6
Aniline
Concen: 50.942 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 93 Resp: 458390

Ion	Ratio	Lower	Upper
93	100		
66	43.2	32.5	48.7
65	22.4	17.0	25.6

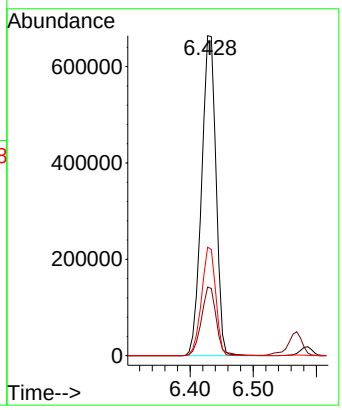




#7
Phenol-d6
Concen: 97.751 ng
RT: 6.428 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 99 Resp: 105238

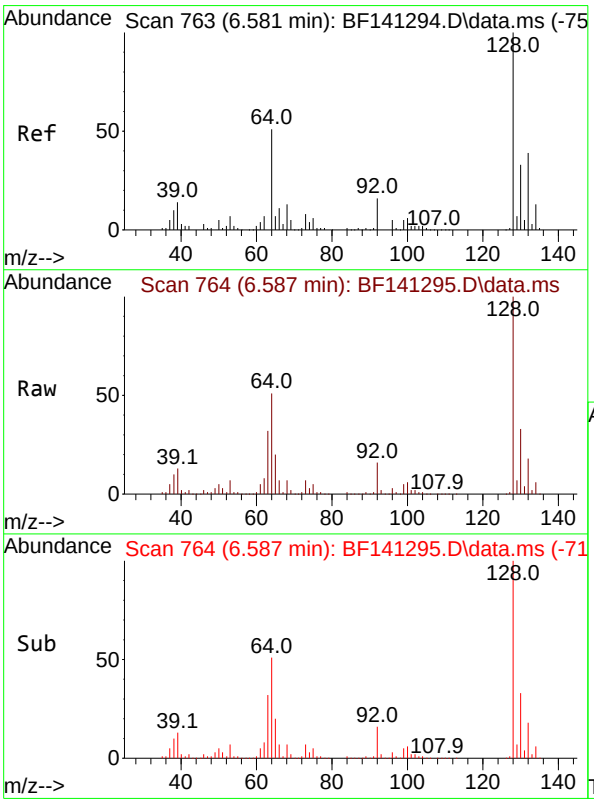
Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.1	25.7
71	33.9	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

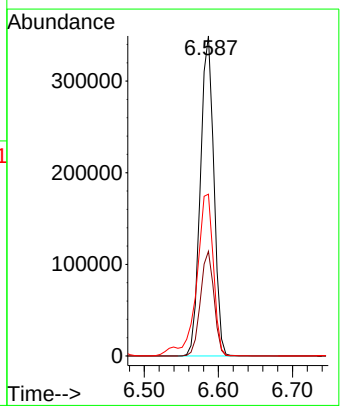
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

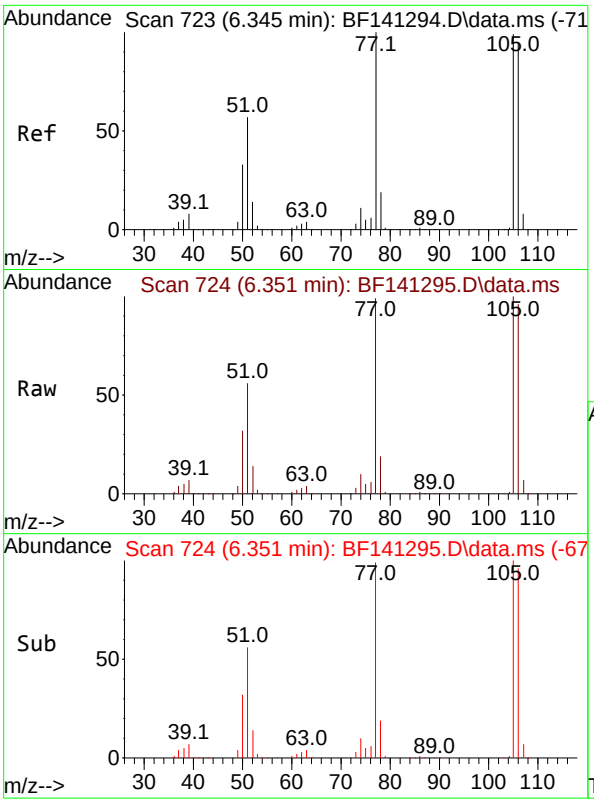


#8
2-Chlorophenol
Concen: 48.707 ng
RT: 6.587 min Scan# 764
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:128 Resp: 441862

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.5	52.5
64	50.5	32.9	72.9

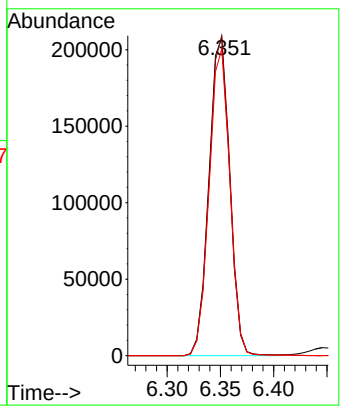




#9
Benzaldehyde
Concen: 44.996 ng
RT: 6.351 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 77 Resp: 28132

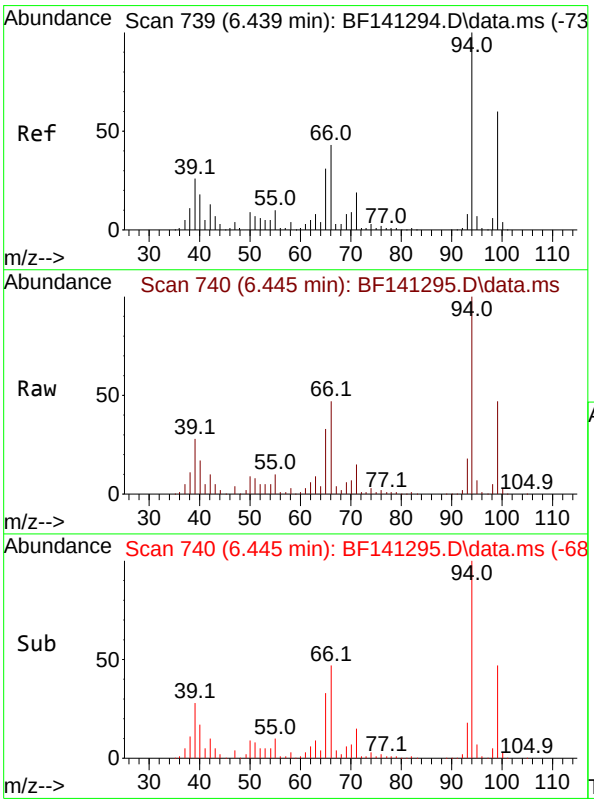
Ion	Ratio	Lower	Upper
77	100		
105	100.8	79.4	119.4
106	96.5	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

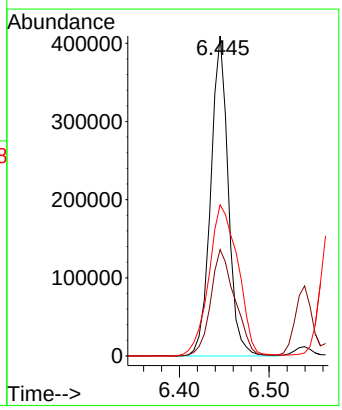
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

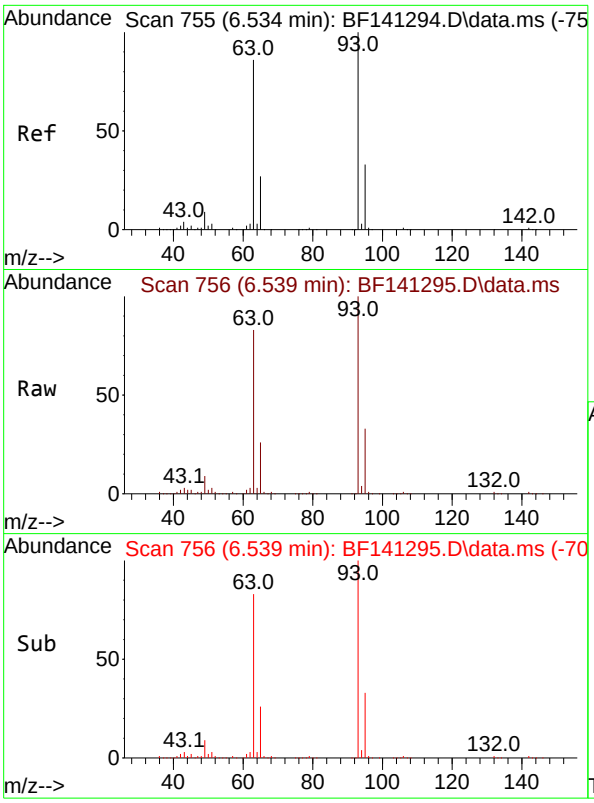


#10
Phenol
Concen: 48.628 ng
RT: 6.445 min Scan# 740
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 94 Resp: 553844

Ion	Ratio	Lower	Upper
94	100		
65	33.2	10.8	50.8
66	47.3	23.3	63.3

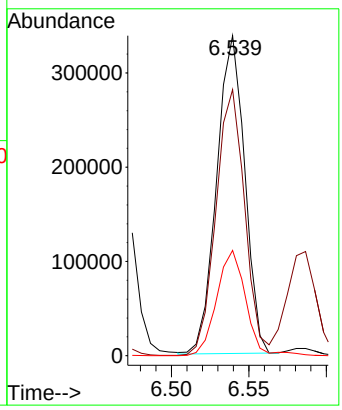




#11
bis(2-Chloroethyl)ether
Concen: 48.433 ng
RT: 6.539 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 93 Resp: 42424

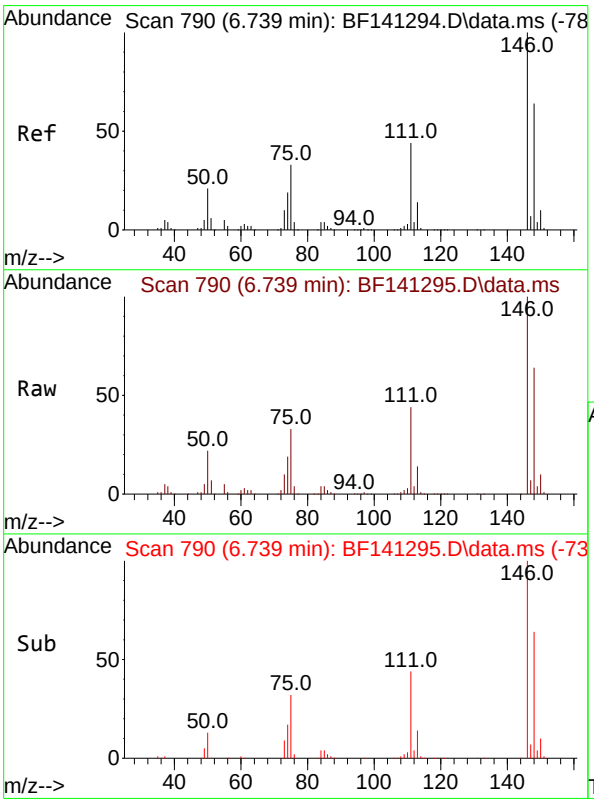
Ion	Ratio	Lower	Upper
93	100		
63	83.2	65.0	105.0
95	32.9	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

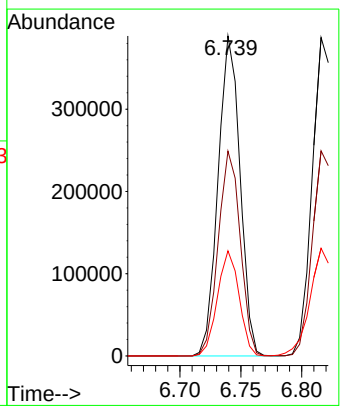
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

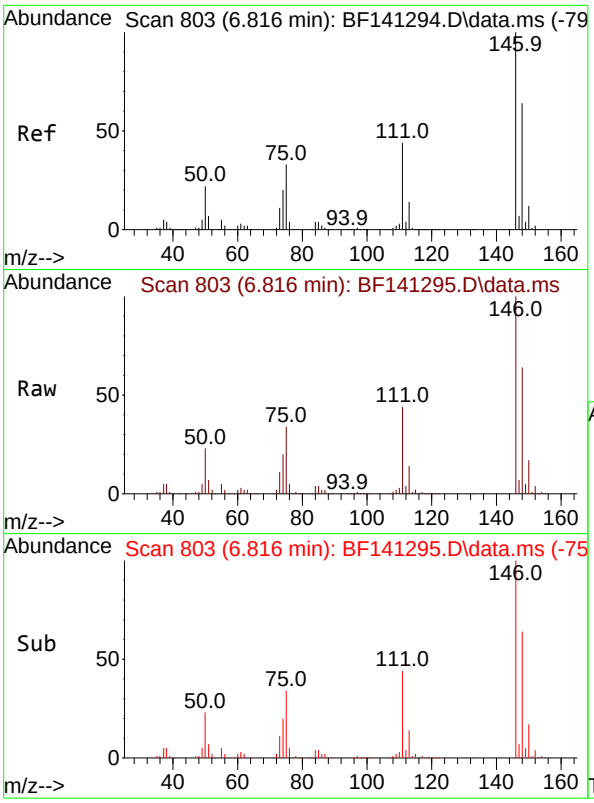


#12
1,3-Dichlorobenzene
Concen: 48.913 ng
RT: 6.739 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:146 Resp: 489386

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
75	32.9	26.2	39.4

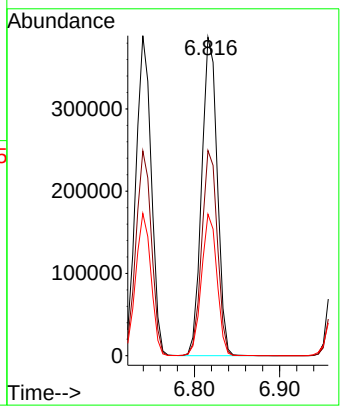




#13
1,4-Dichlorobenzene
Concen: 48.671 ng
RT: 6.816 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:146 Resp: 49039

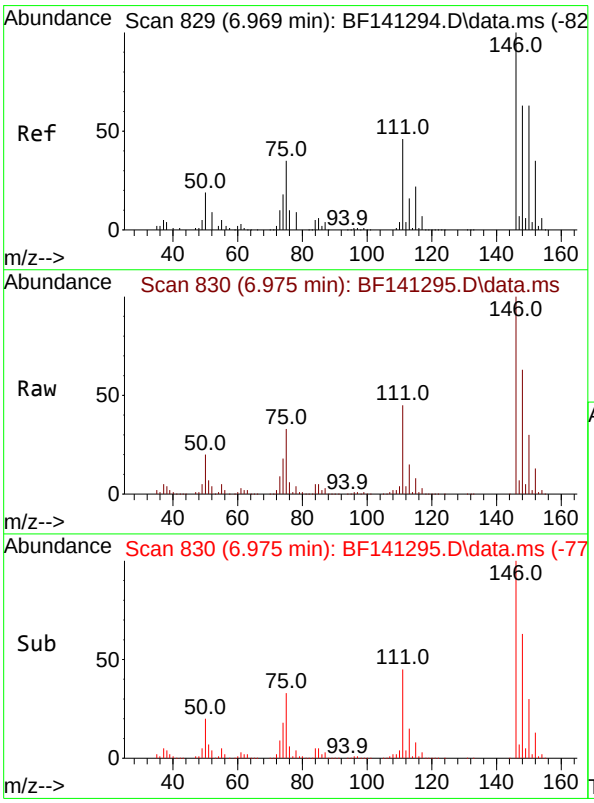
Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
111	44.4	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

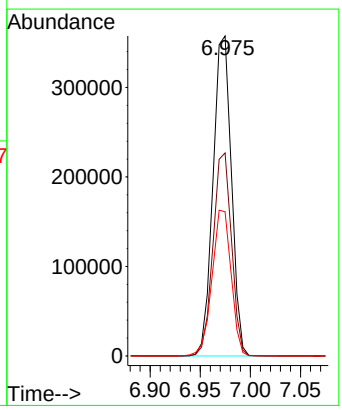
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

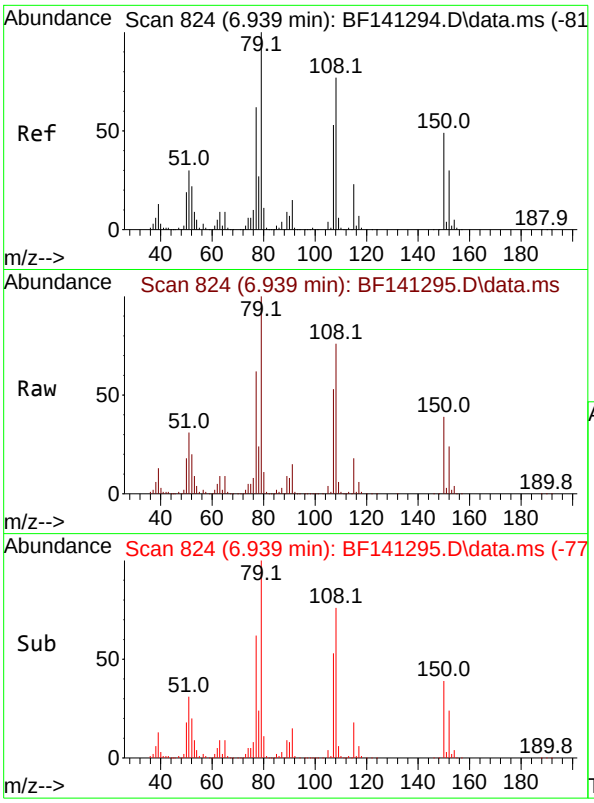


#14
1,2-Dichlorobenzene
Concen: 48.279 ng
RT: 6.975 min Scan# 830
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:146 Resp: 454569

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.5	75.7
111	45.1	36.6	55.0

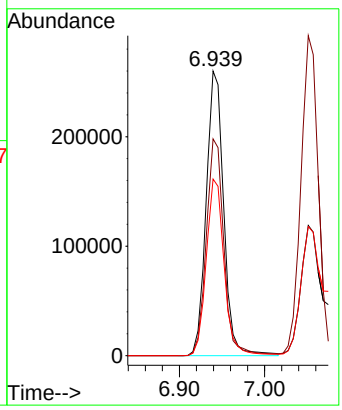




#15
Benzyl Alcohol
Concen: 50.480 ng
RT: 6.939 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 79 Resp: 37127

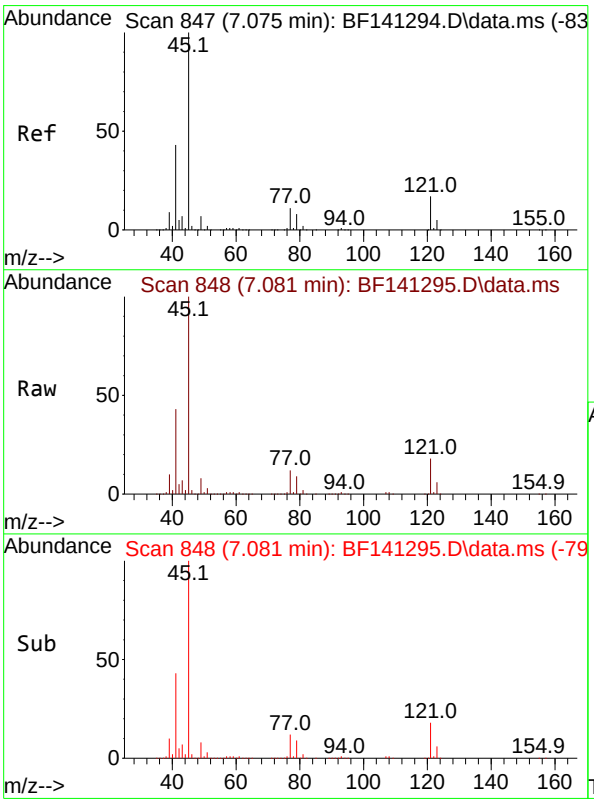
Ion	Ratio	Lower	Upper
79	100		
108	76.2	61.4	92.0
77	62.1	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

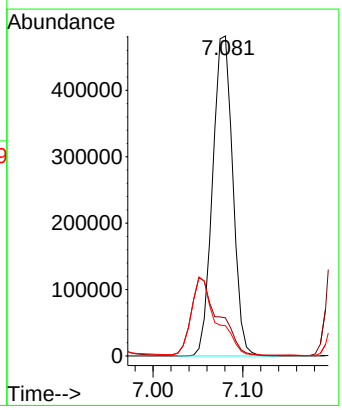
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

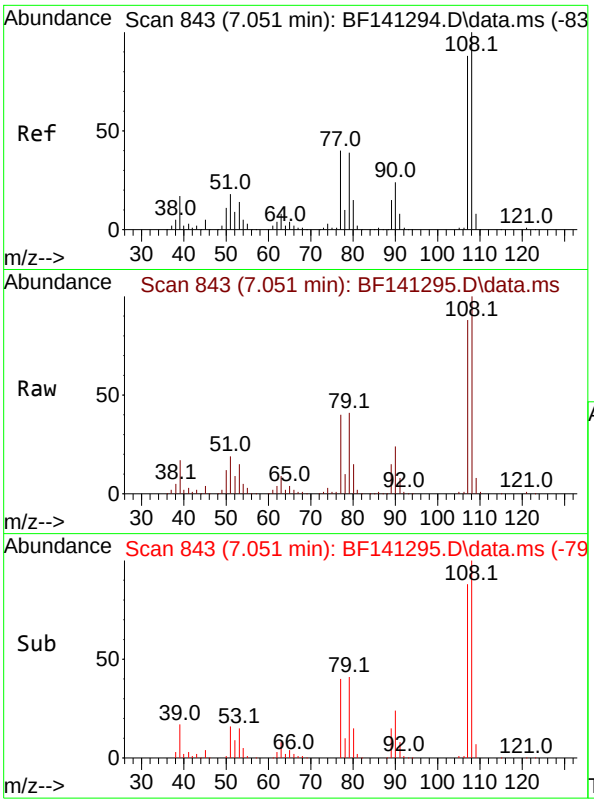


#16
2,2'-oxybis(1-Chloropropane)
Concen: 49.280 ng
RT: 7.081 min Scan# 848
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 45 Resp: 749938

Ion	Ratio	Lower	Upper
45	100		
77	11.9	0.0	31.8
79	9.5	0.0	29.1

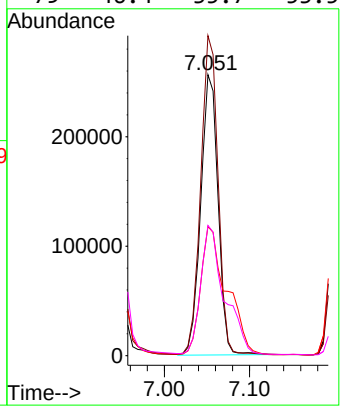




#17
2-Methylphenol
Concen: 49.214 ng
RT: 7.051 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:107 Resp: 36146

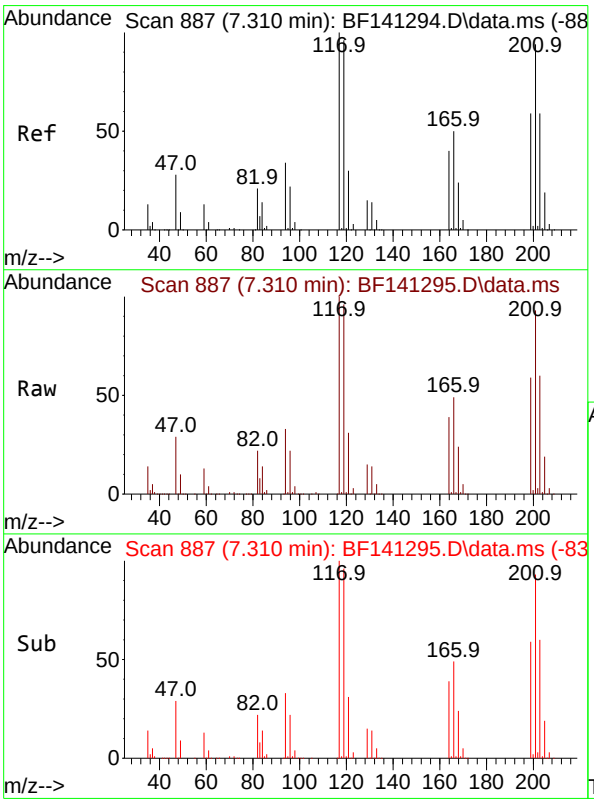
Ion	Ratio	Lower	Upper
107	100		
108	113.9	90.8	136.2
77	46.0	36.2	54.4
79	46.4	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

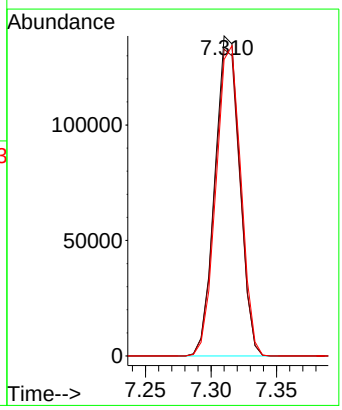
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

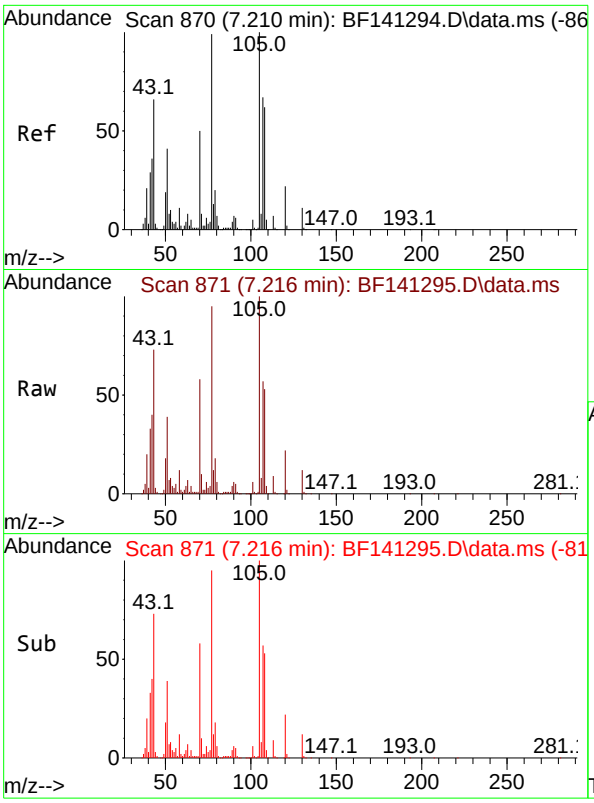


#18
Hexachloroethane
Concen: 49.073 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:117 Resp: 182933

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.6	114.8
201	92.7	74.8	112.2

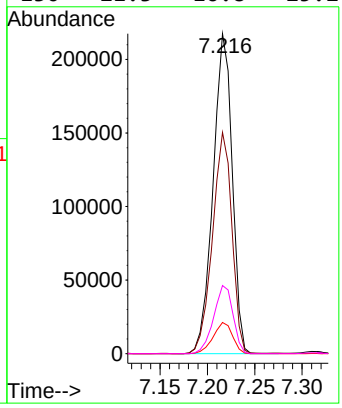




#19
n-Nitroso-di-n-propylamine
Concen: 47.753 ng
RT: 7.216 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 70 Resp: 30574

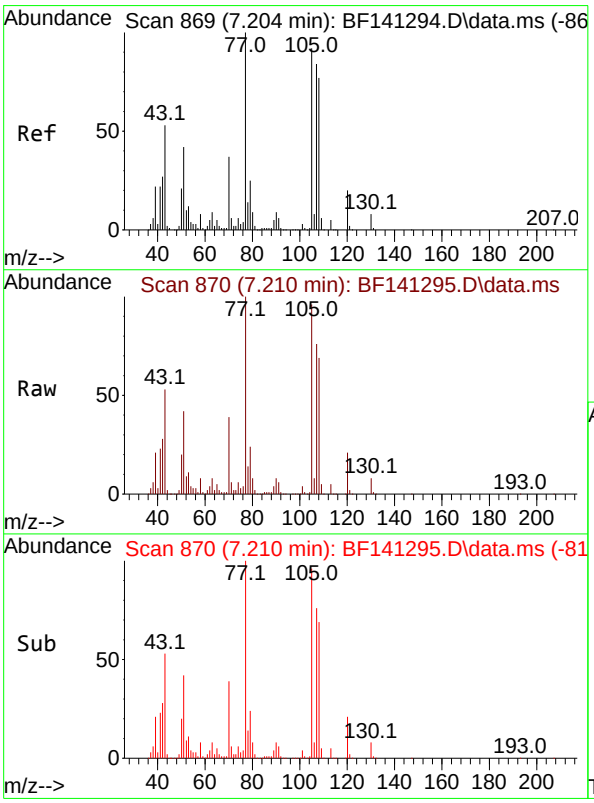
Ion	Ratio	Lower	Upper
70	100		
42	69.2	56.8	85.2
101	9.7	7.7	11.5
130	21.3	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

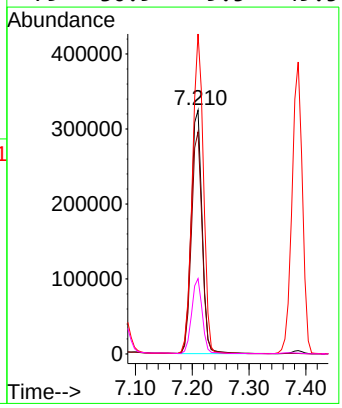
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

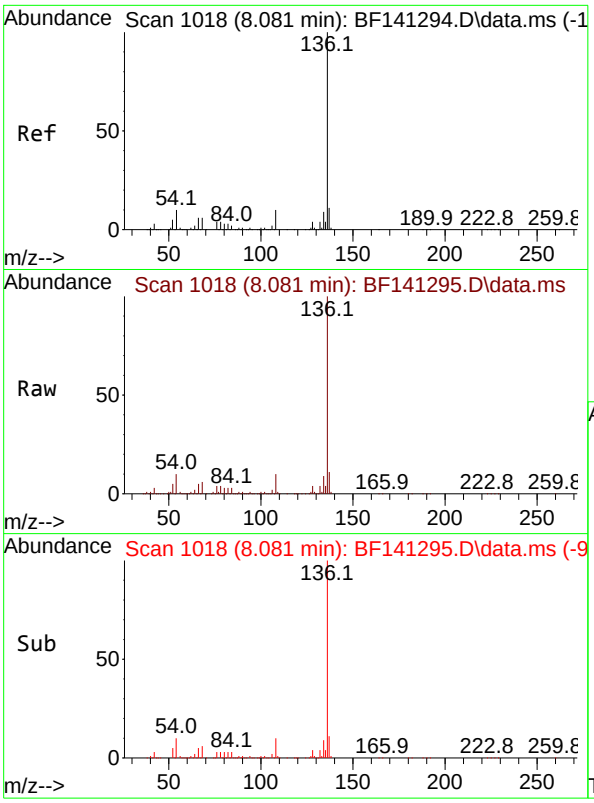


#20
3+4-Methylphenols
Concen: 48.143 ng
RT: 7.210 min Scan# 870
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:107 Resp: 434743

Ion	Ratio	Lower	Upper
107	100		
108	91.2	70.9	110.9
77	131.3	98.5	138.5
79	30.9	9.5	49.5

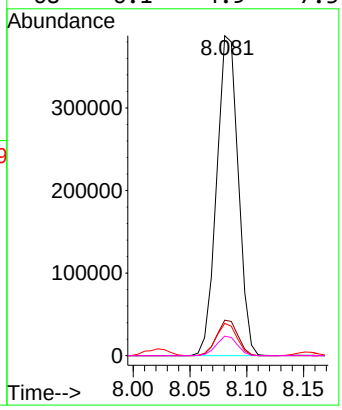




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:136 Resp: 51184

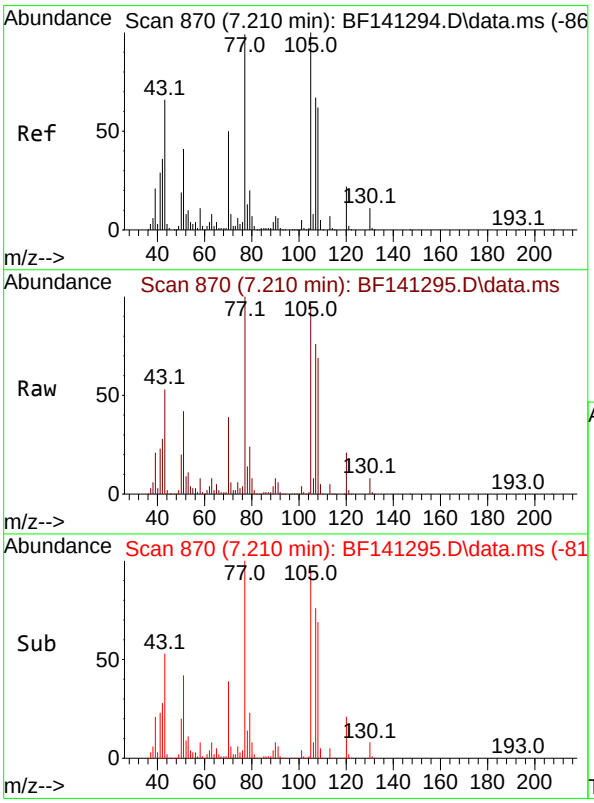
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	10.1	7.8	11.8
68	6.1	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

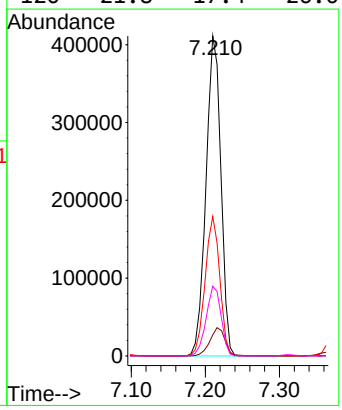
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

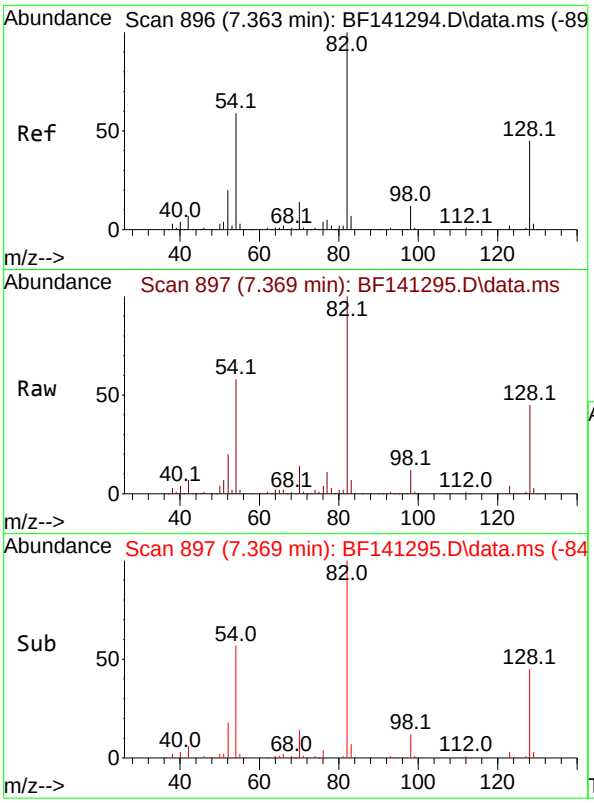


#22
Acetophenone
Concen: 47.365 ng
RT: 7.210 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:105 Resp: 574700

Ion	Ratio	Lower	Upper
105	100		
71	6.6	6.8	10.2#
51	43.6	32.6	49.0
120	21.8	17.4	26.0

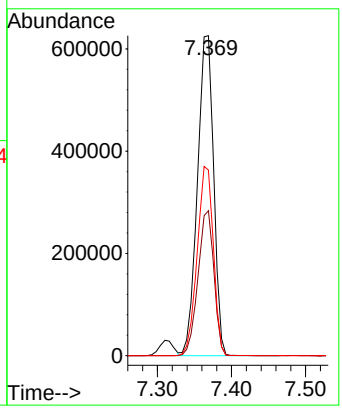




#23
Nitrobenzene-d5
Concen: 98.761 ng
RT: 7.369 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 82 Resp: 95536

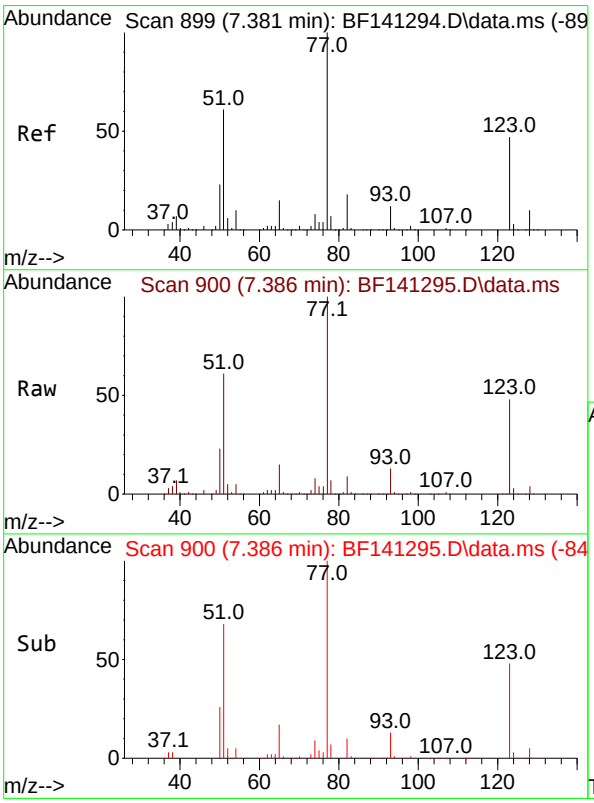
Ion	Ratio	Lower	Upper
82	100		
128	45.3	35.7	53.5
54	58.0	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

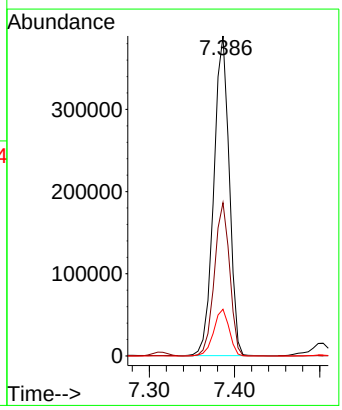
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

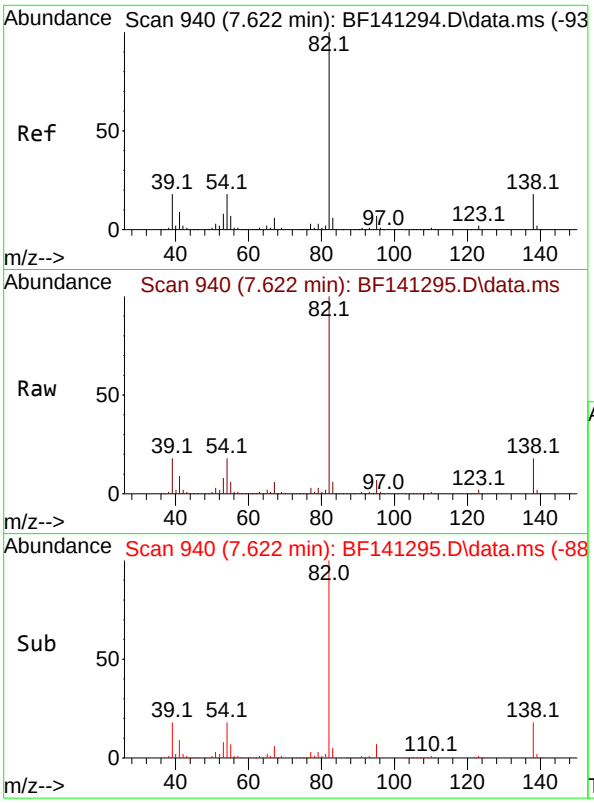


#24
Nitrobenzene
Concen: 49.046 ng
RT: 7.386 min Scan# 900
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 77 Resp: 492082

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.3	55.9
65	14.6	11.8	17.6

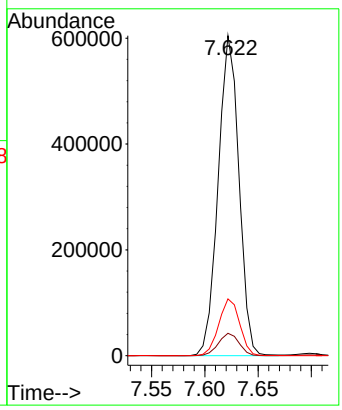




#25
Isophorone
Concen: 48.959 ng
RT: 7.622 min Scan# 94
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 82 Resp: 81849

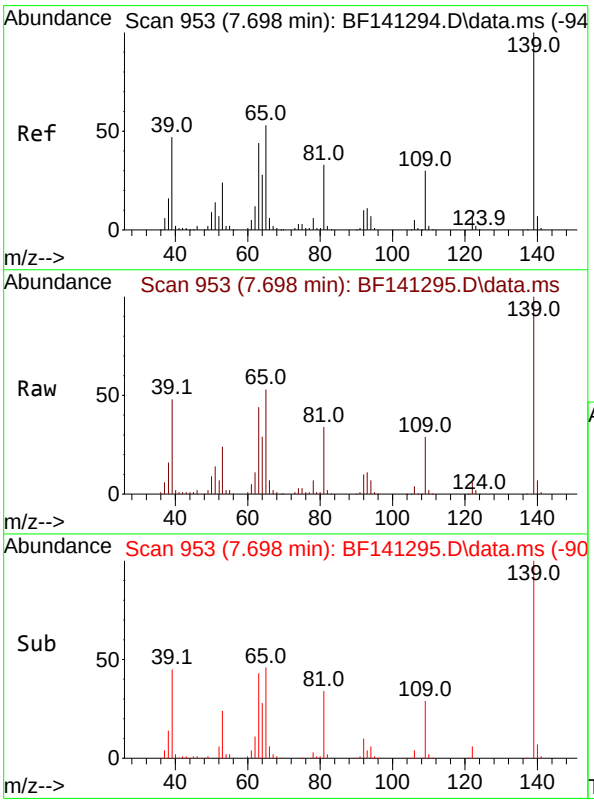
Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.8	8.6
138	17.7	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

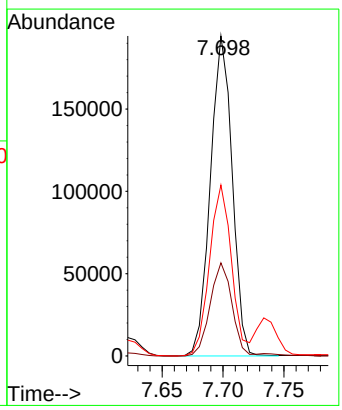
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

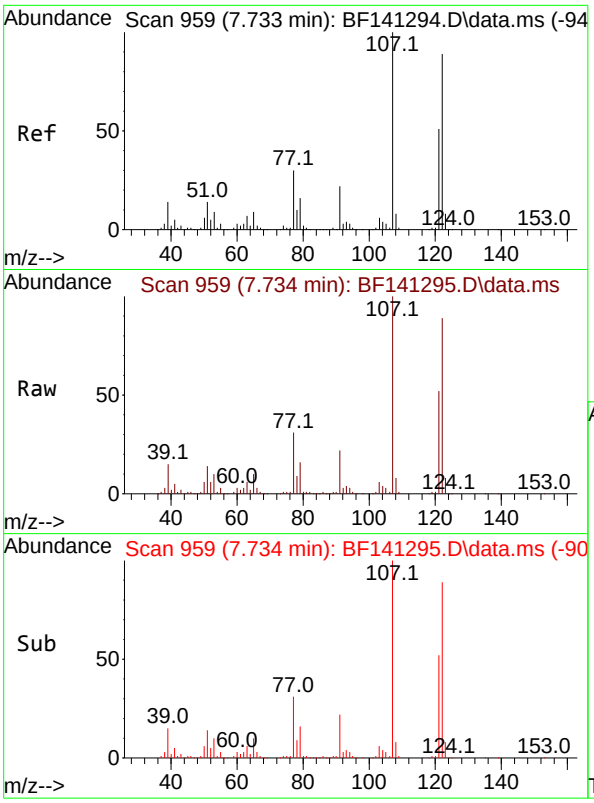


#26
2-Nitrophenol
Concen: 51.545 ng
RT: 7.698 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:139 Resp: 242228

Ion	Ratio	Lower	Upper
139	100		
109	29.1	23.8	35.6
65	53.4	42.2	63.4

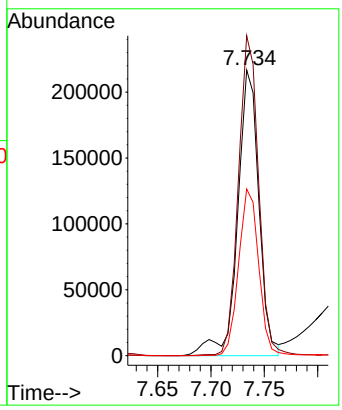




#27
2,4-Dimethylphenol
Concen: 49.969 ng m
RT: 7.734 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:122 Resp: 30007

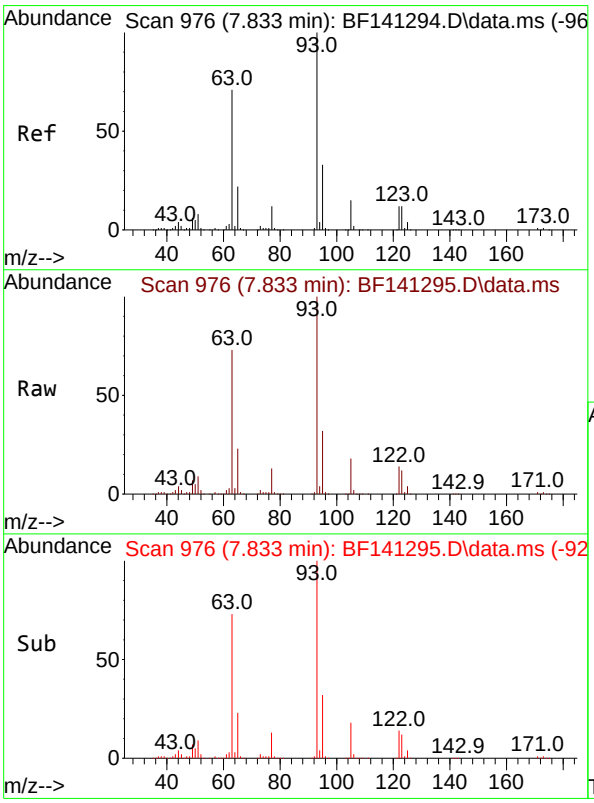
Ion	Ratio	Lower	Upper
122	100		
107	112.0	89.9	134.9
121	58.3	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

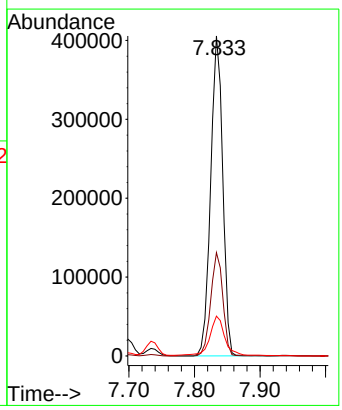
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

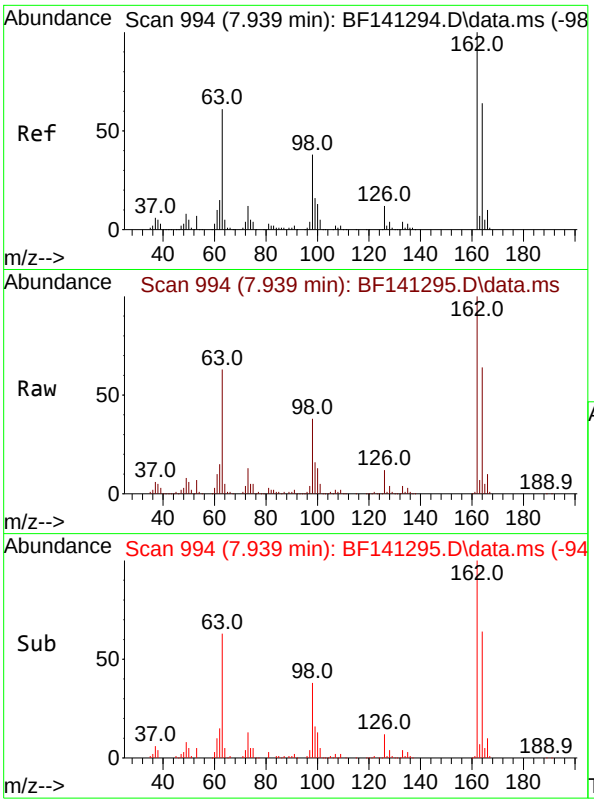


#28
bis(2-Chloroethoxy)methane
Concen: 48.701 ng
RT: 7.833 min Scan# 976
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 93 Resp: 518825

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.2	39.2
123	12.4	10.2	15.4





#29
2,4-Dichlorophenol
Concen: 49.507 ng
RT: 7.939 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

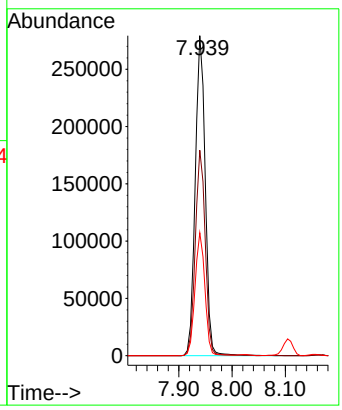
Tgt Ion:162 Resp: 36327

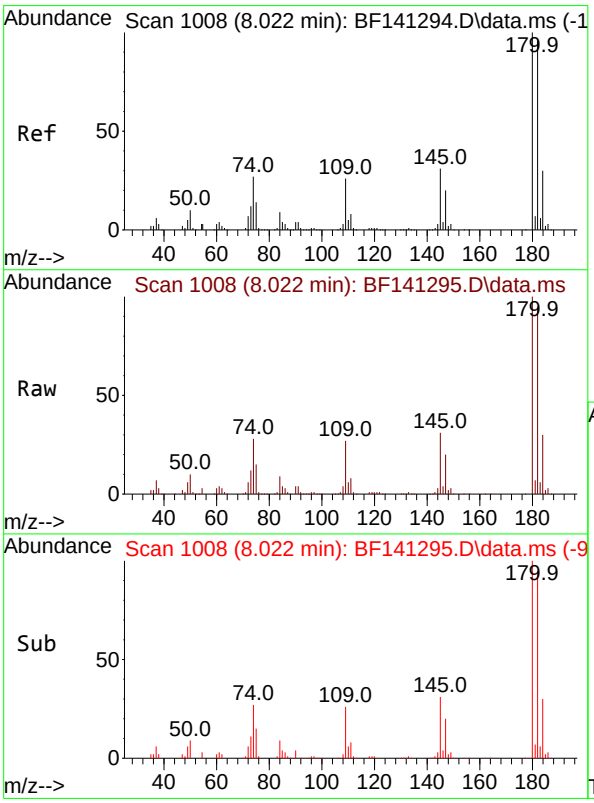
Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.2	84.2
98	38.4	18.2	58.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

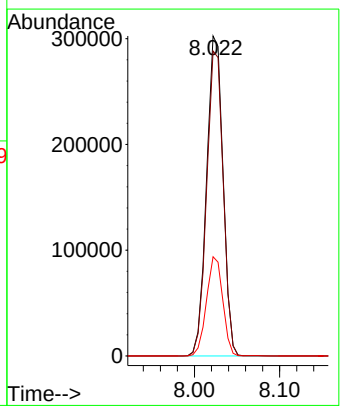


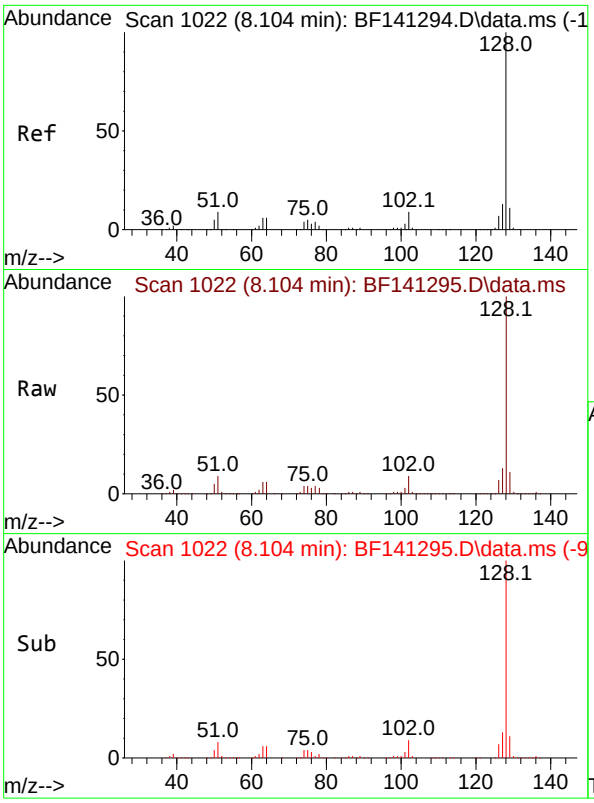


#30
1,2,4-Trichlorobenzene
Concen: 48.309 ng
RT: 8.022 min Scan# 1008
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:180 Resp: 406562

Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.4	114.6
145	31.0	24.9	37.3





#31
Naphthalene
Concen: 48.468 ng
RT: 8.104 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

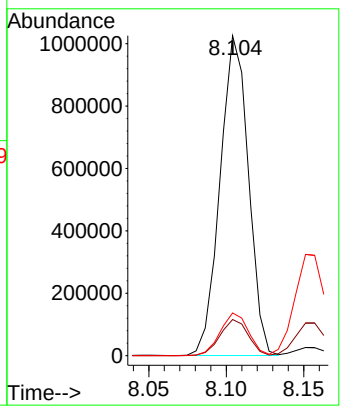
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

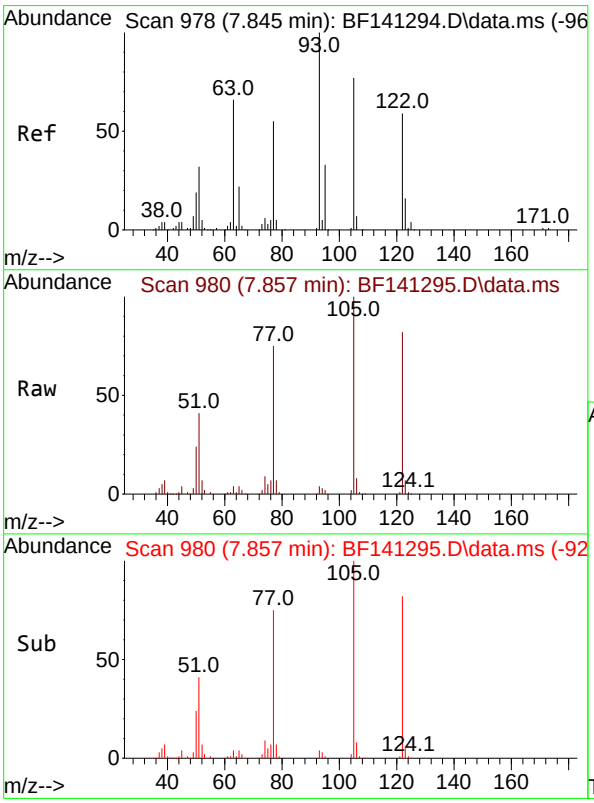
Tgt Ion:128 Resp: 130475

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.3	10.6	15.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

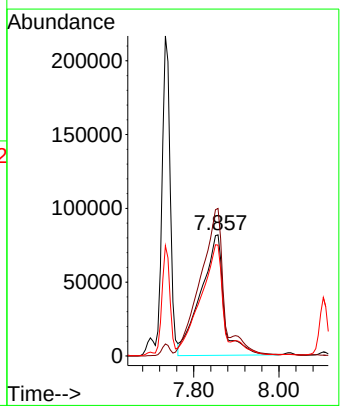


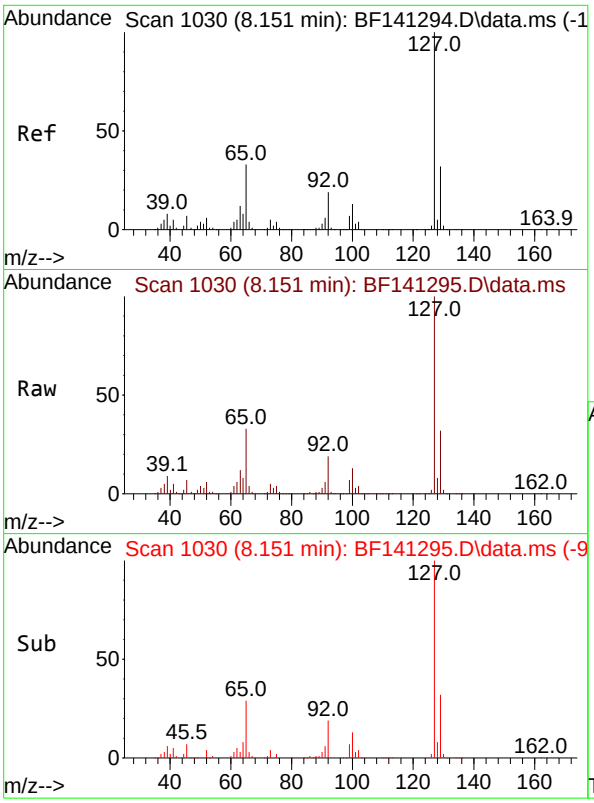


#32
Benzoic acid
Concen: 56.571 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.012 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:122 Resp: 308525

Ion	Ratio	Lower	Upper
122	100		
105	121.7	103.4	143.4
77	91.5	70.9	110.9

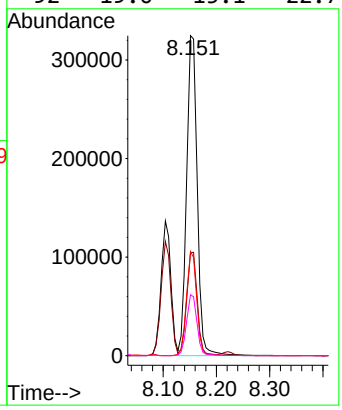




#33
4-Chloroaniline
Concen: 49.712 ng
RT: 8.151 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:127 Resp: 44954

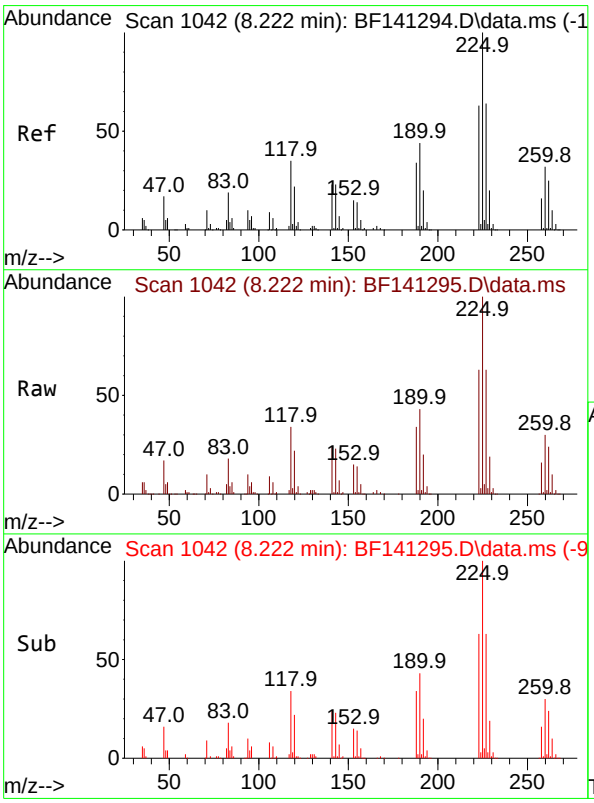
Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.7	38.5
65	32.6	26.4	39.6
92	19.0	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

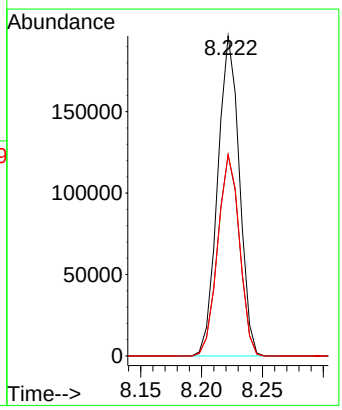
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

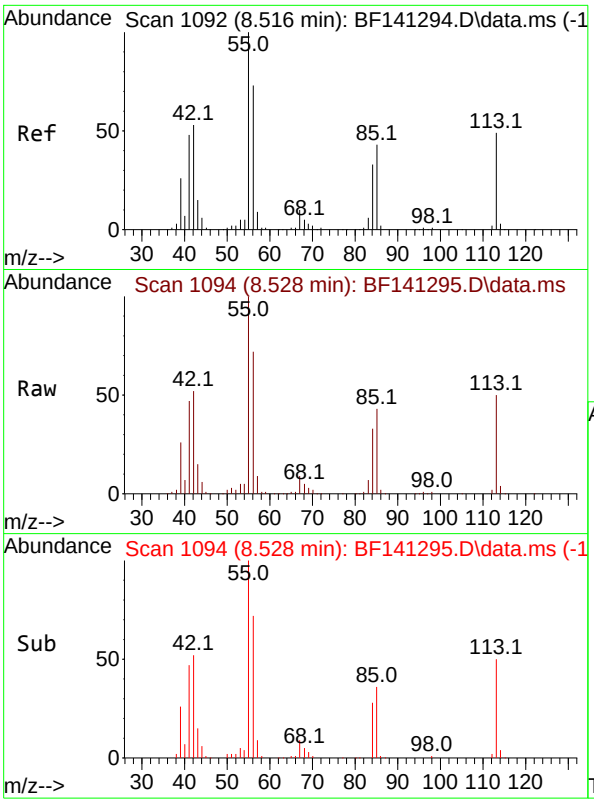


#34
Hexachlorobutadiene
Concen: 49.395 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:225 Resp: 243308

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6
227	62.9	51.3	76.9





#35
Caprolactam
Concen: 50.594 ng
RT: 8.528 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

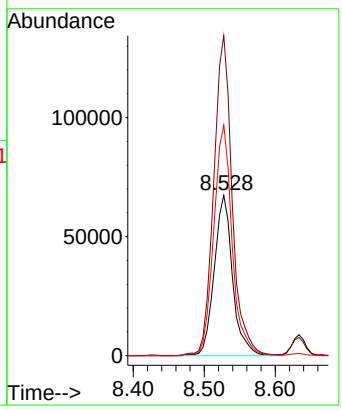
Tgt Ion:113 Resp: 12007

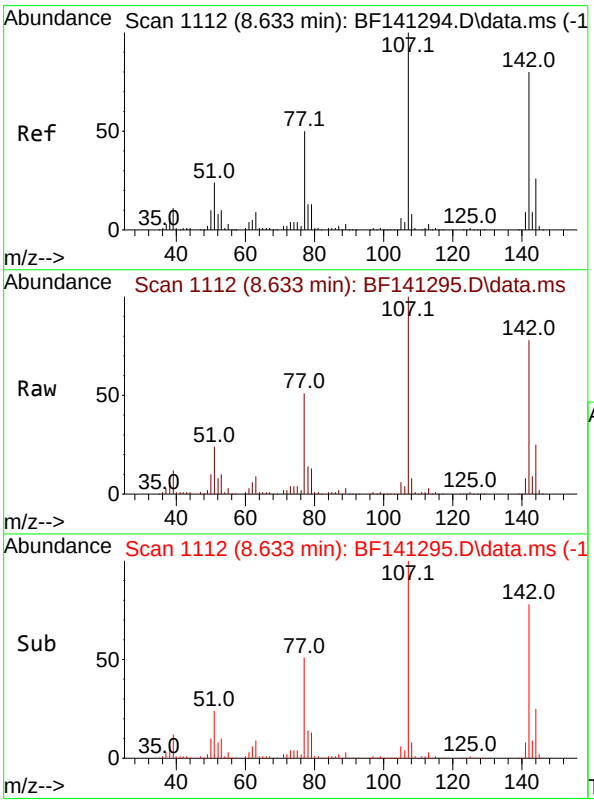
Ion	Ratio	Lower	Upper
113	100		
55	199.5	182.9	222.9
56	143.7	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

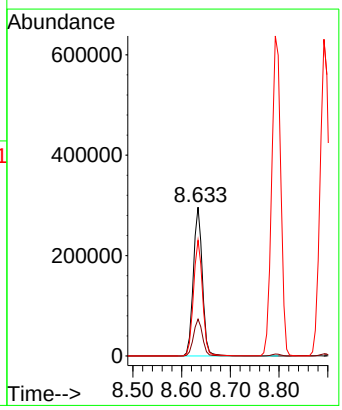


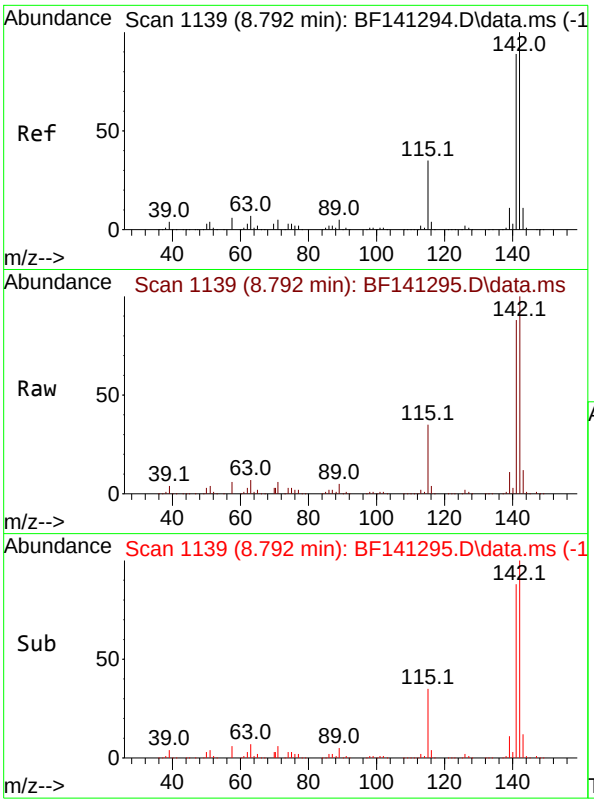


#36
4-Chloro-3-methylphenol
Concen: 48.973 ng
RT: 8.633 min Scan# 1112
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:107 Resp: 385683

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.7	31.1
142	77.7	63.8	95.8





#37
2-Methylnaphthalene
Concen: 48.006 ng
RT: 8.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

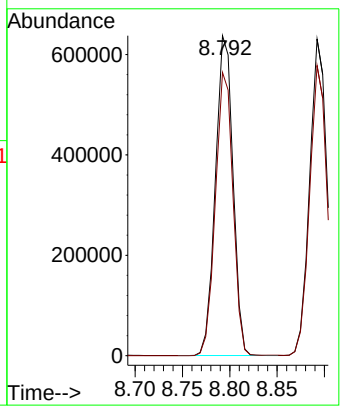
Tgt Ion:142 Resp: 82298

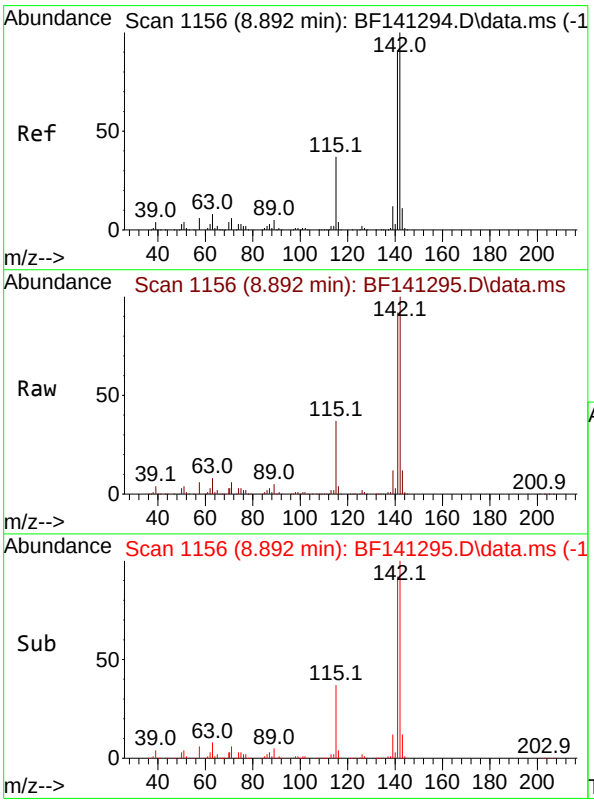
Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

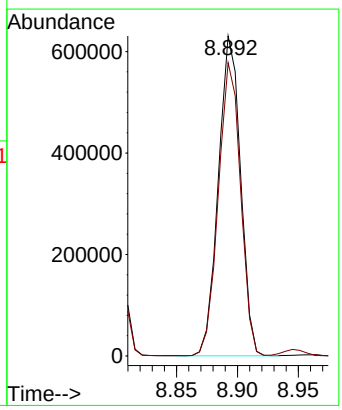


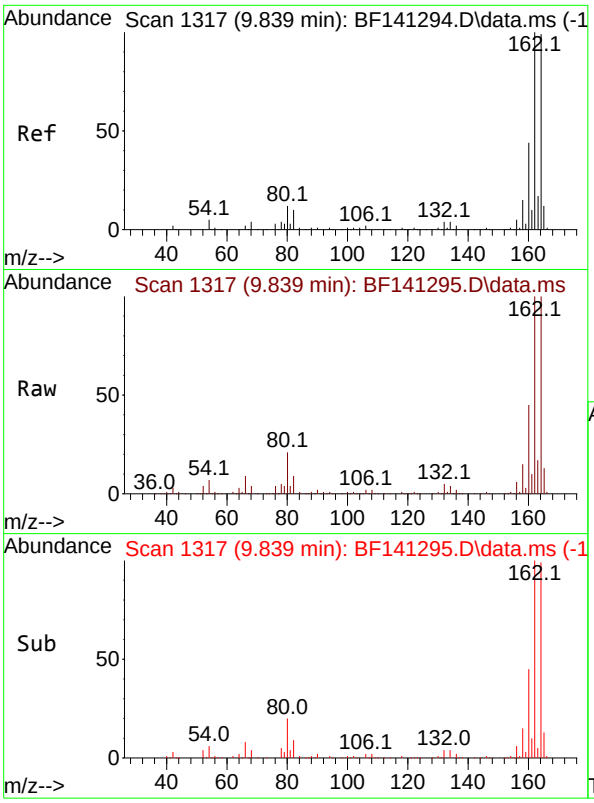


#38
1-Methylnaphthalene
Concen: 47.586 ng
RT: 8.892 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:142 Resp: 799136

Ion	Ratio	Lower	Upper
142	100		
141	91.6	73.2	109.8

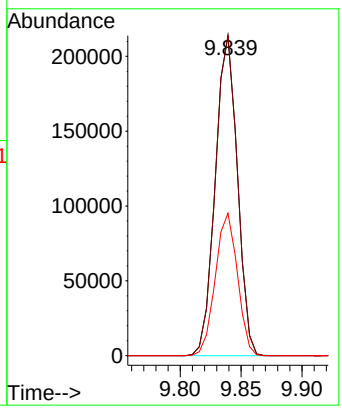




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:164 Resp: 26966

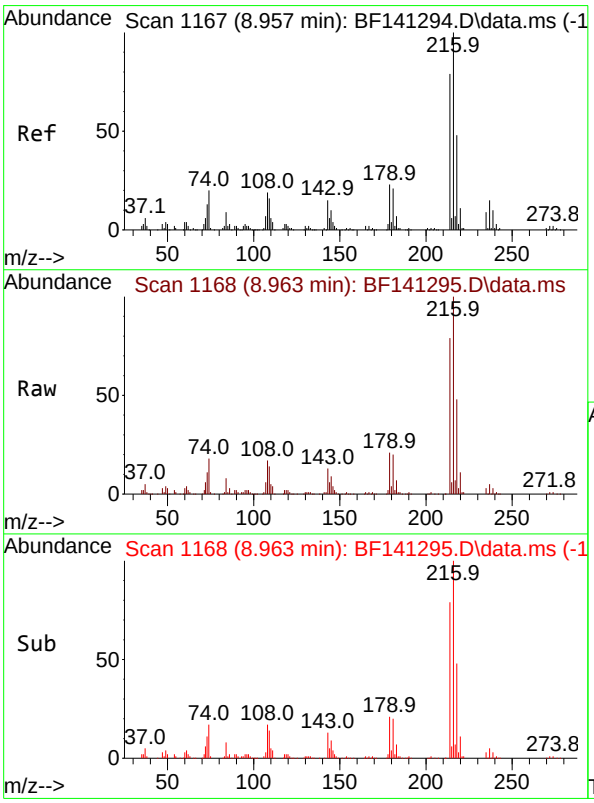
Ion	Ratio	Lower	Upper
164	100		
162	100.1	80.6	121.0
160	44.5	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

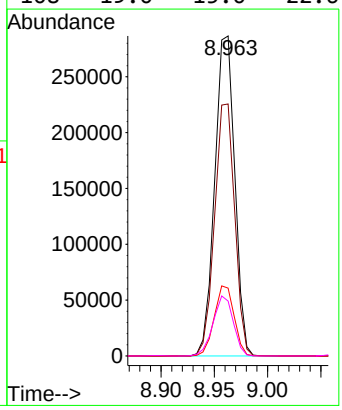
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

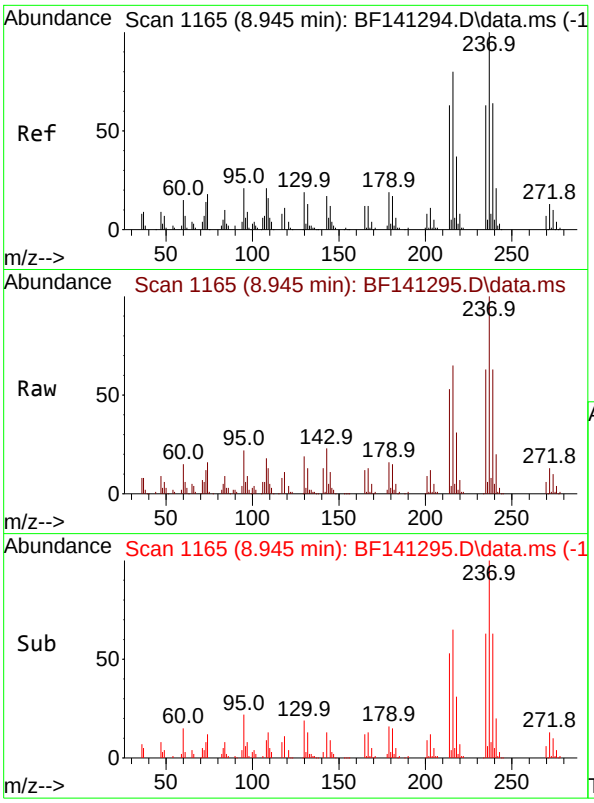


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.774 ng
RT: 8.963 min Scan# 1168
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:216 Resp: 373963

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.2	94.8
179	21.7	17.8	26.8
108	19.0	15.0	22.6

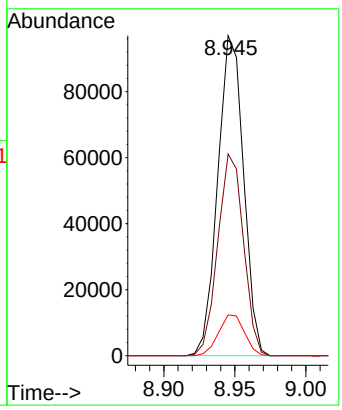




#41
Hexachlorocyclopentadiene
Concen: 53.227 ng
RT: 8.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:237 Resp: 12247

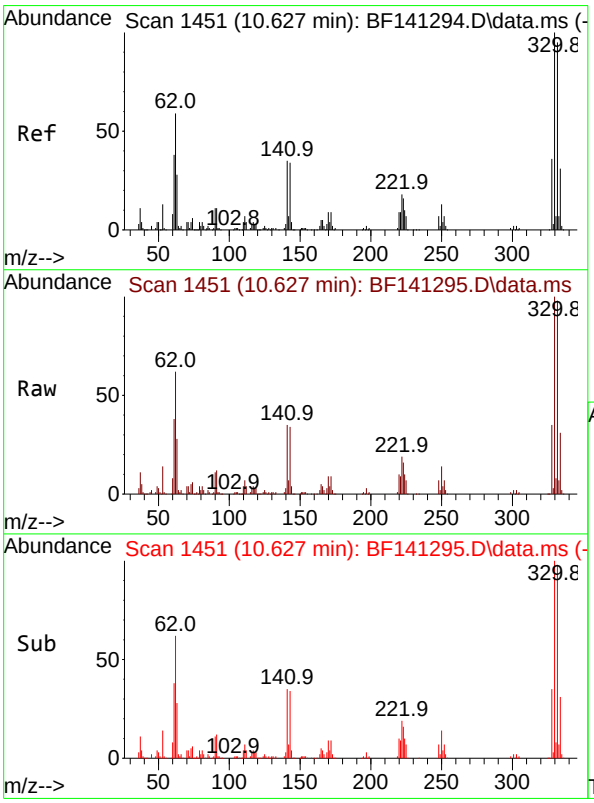
Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.9	82.9
272	12.7	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

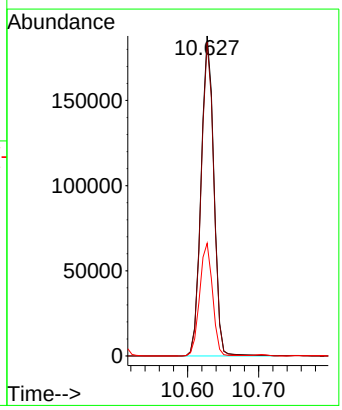
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

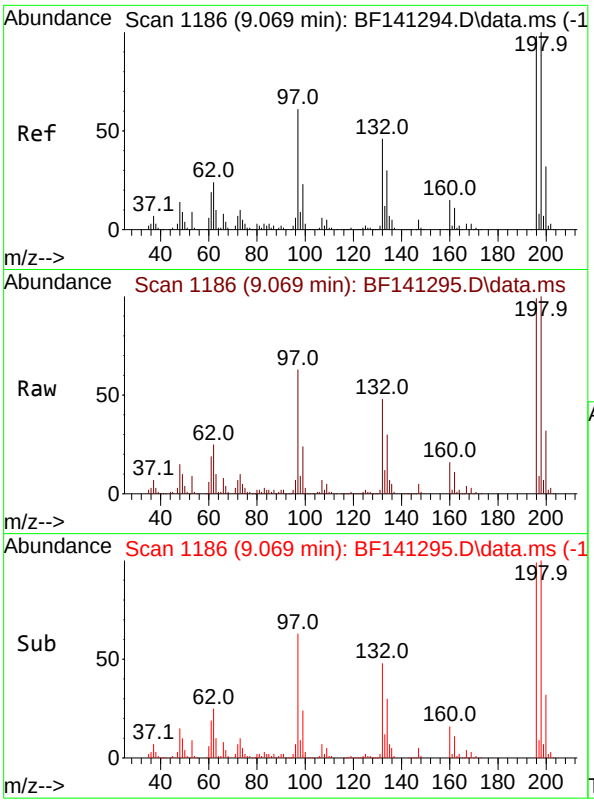


#42
2,4,6-Tribromophenol
Concen: 95.997 ng
RT: 10.627 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:330 Resp: 235884

Ion	Ratio	Lower	Upper
330	100		
332	97.5	76.1	114.1
141	35.4	28.8	43.2

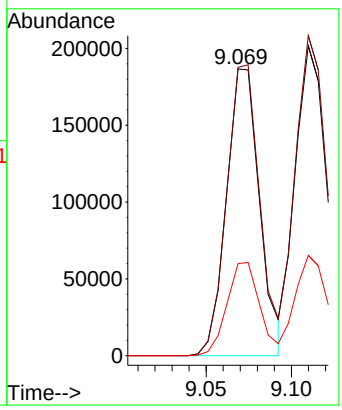




#43
2,4,6-Trichlorophenol
Concen: 50.545 ng
RT: 9.069 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:196 Resp: 25297

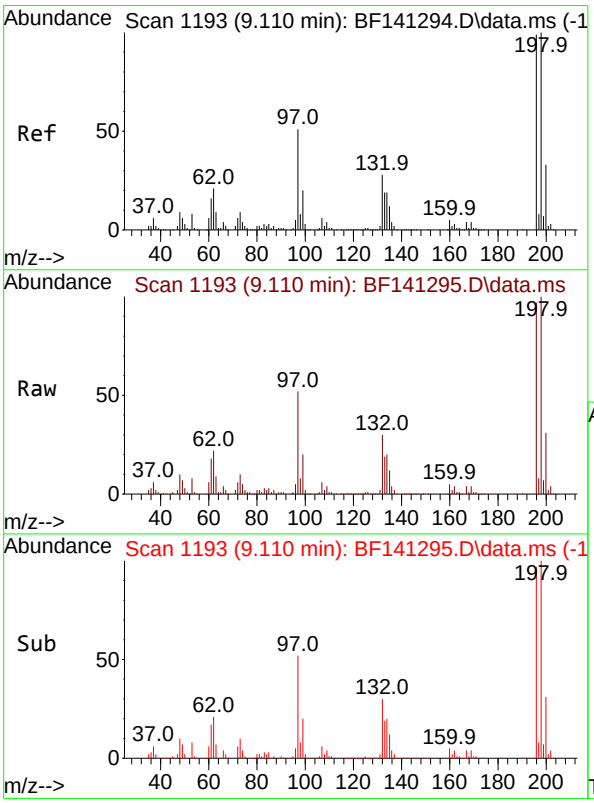
Ion	Ratio	Lower	Upper
196	100		
198	100.5	81.8	122.6
200	32.1	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

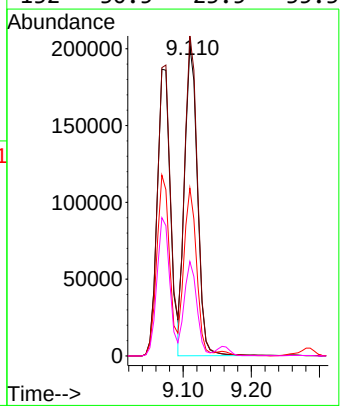
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

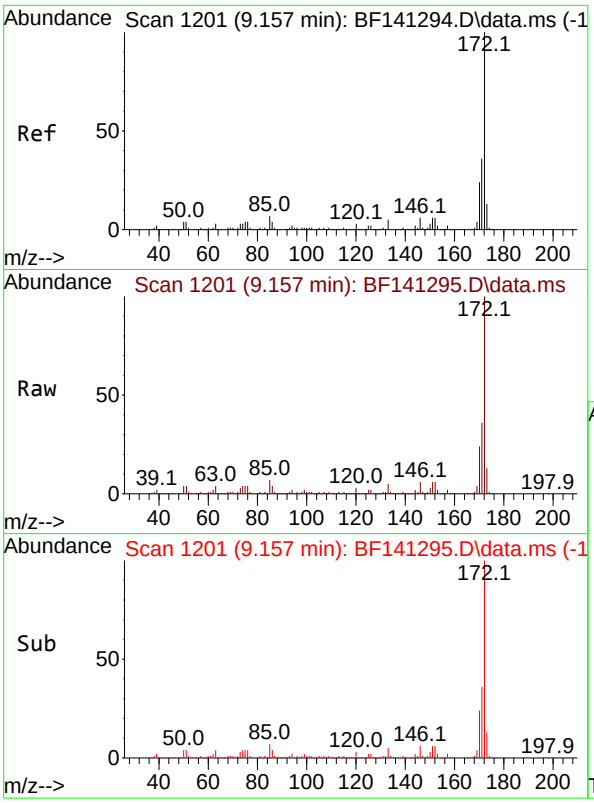


#44
2,4,5-Trichlorophenol
Concen: 48.438 ng
RT: 9.110 min Scan# 1193
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:196 Resp: 263745

Ion	Ratio	Lower	Upper
196	100		
198	103.2	80.5	120.7
97	54.1	42.8	64.2
132	30.5	23.5	35.3





#45
2-Fluorobiphenyl
Concen: 92.721 ng
RT: 9.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

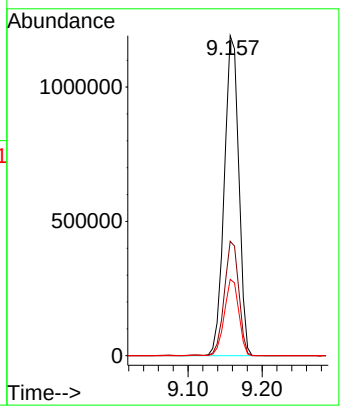
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

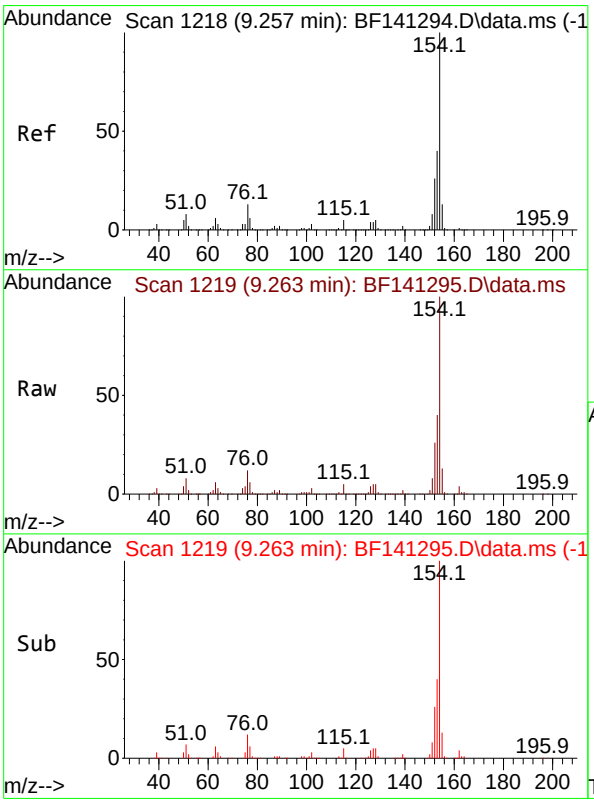
Tgt Ion:172 Resp: 162082

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.8	19.0	28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

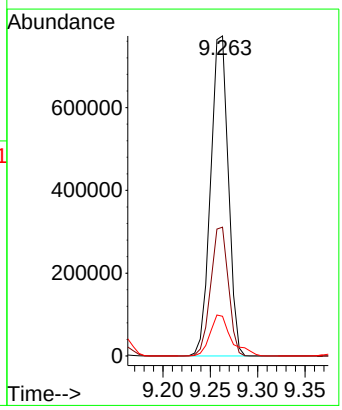


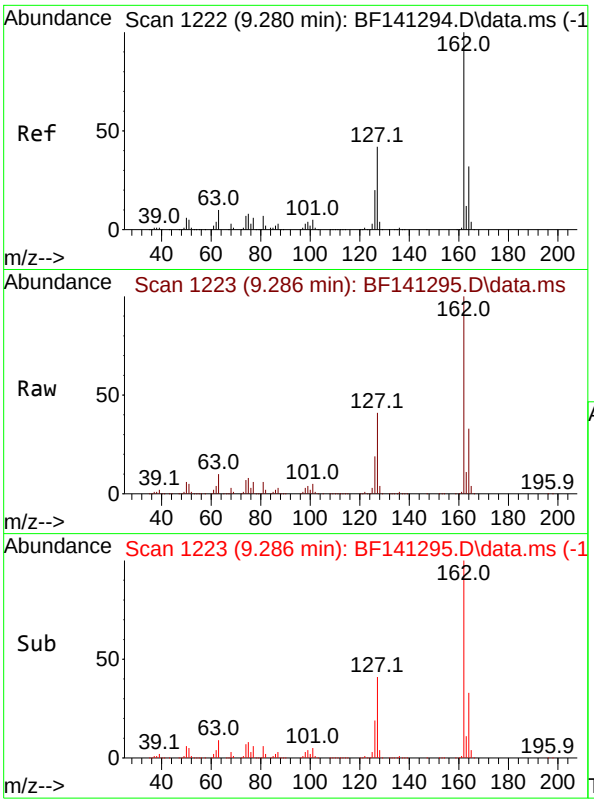


#46
1,1'-Biphenyl
Concen: 47.808 ng
RT: 9.263 min Scan# 1219
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:154 Resp: 1005774

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.0	60.0
76	12.4	0.0	32.8

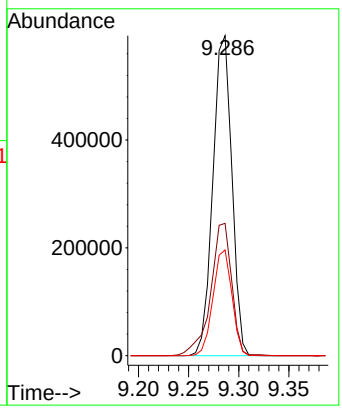




#47
2-Chloronaphthalene
Concen: 47.835 ng
RT: 9.286 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:162 Resp: 78161

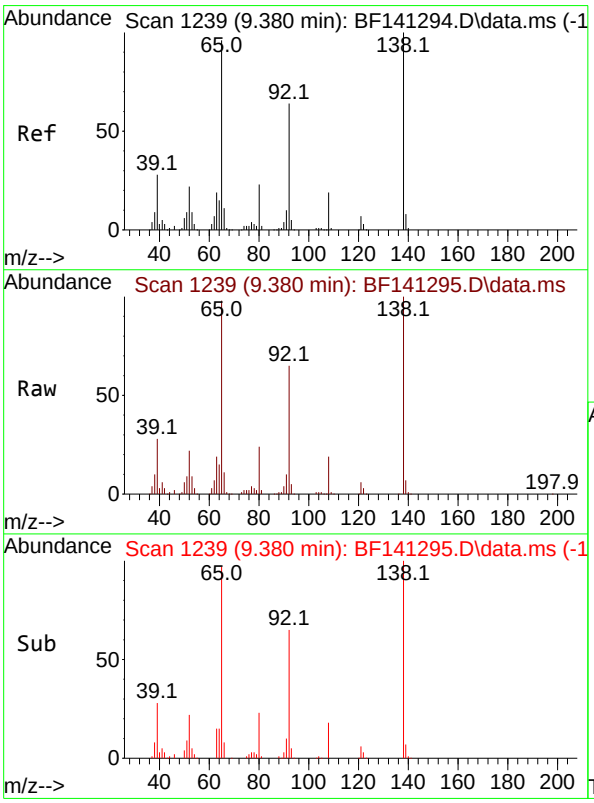
Ion	Ratio	Lower	Upper
162	100		
127	41.3	33.7	50.5
164	33.0	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

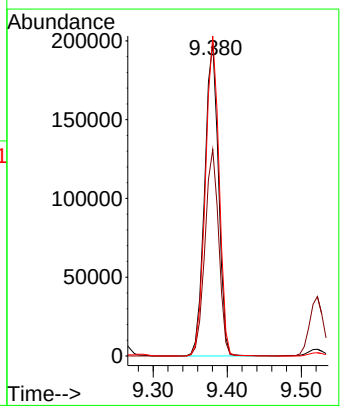
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

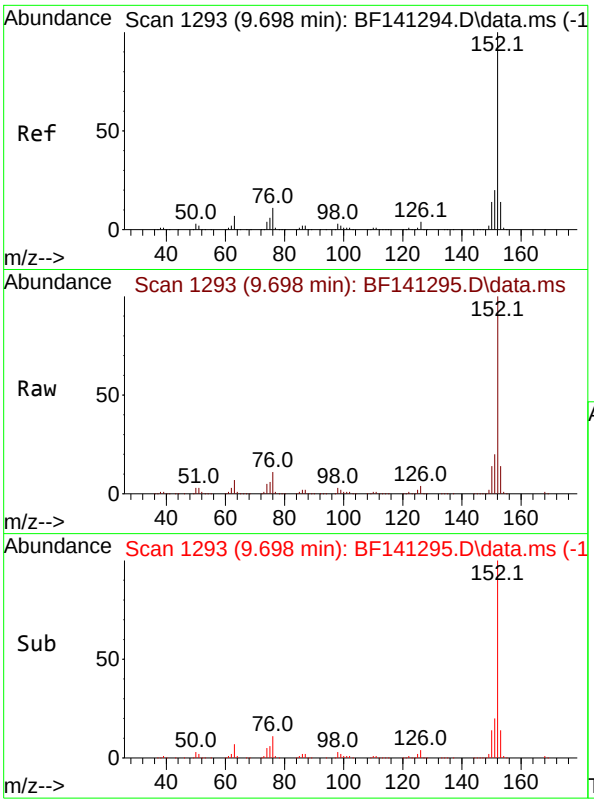


#48
2-Nitroaniline
Concen: 49.907 ng
RT: 9.380 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 65 Resp: 257199

Ion	Ratio	Lower	Upper
65	100		
92	66.0	53.3	79.9
138	102.3	83.6	125.4





#49
Acenaphthylene
Concen: 47.595 ng
RT: 9.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

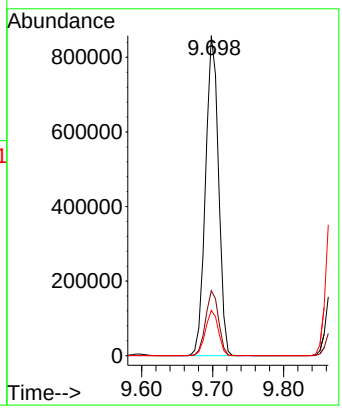
Tgt Ion:152 Resp: 109223

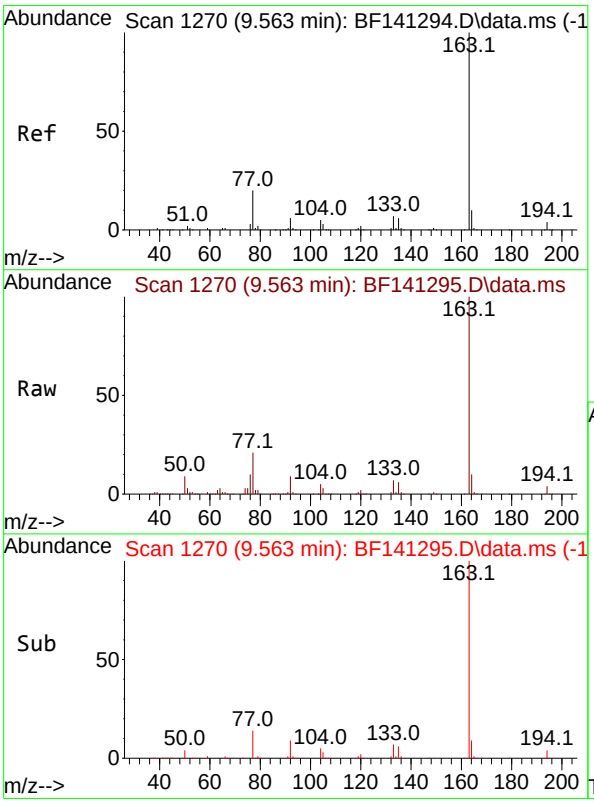
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	14.2	11.0	16.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

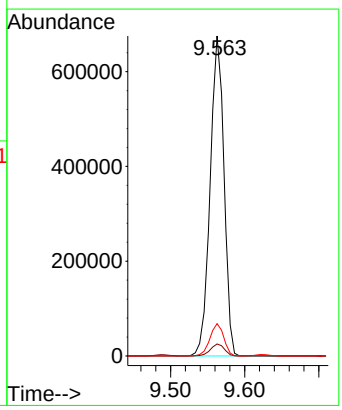


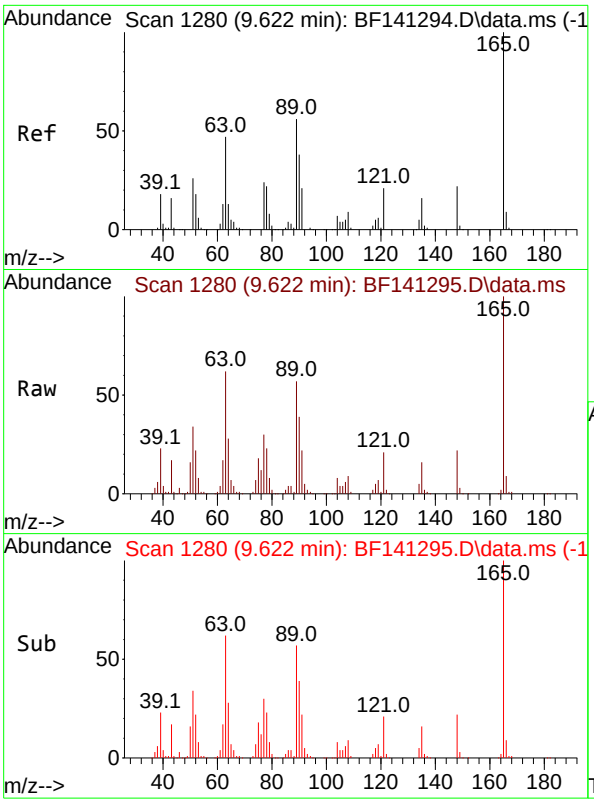


#50
Dimethylphthalate
Concen: 48.419 ng
RT: 9.563 min Scan# 1270
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:163 Resp: 875569

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.1	8.0	12.0





#51
2,6-Dinitrotoluene
Concen: 48.697 ng
RT: 9.622 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

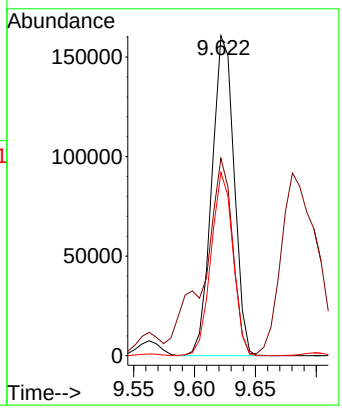
Tgt Ion:165 Resp: 20491

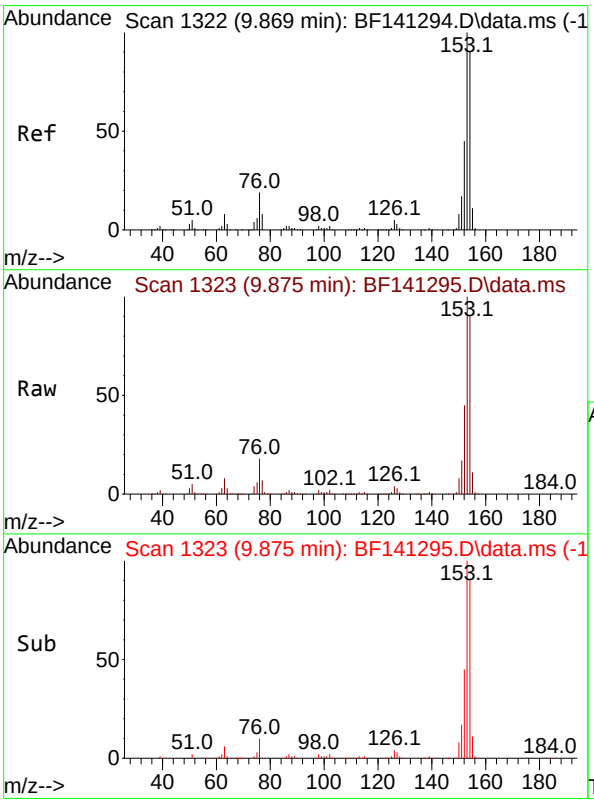
Ion	Ratio	Lower	Upper
165	100		
63	61.7	48.1	72.1
89	57.3	44.9	67.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

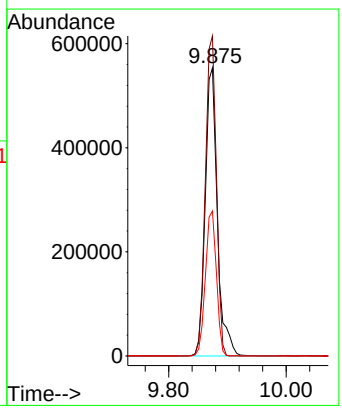


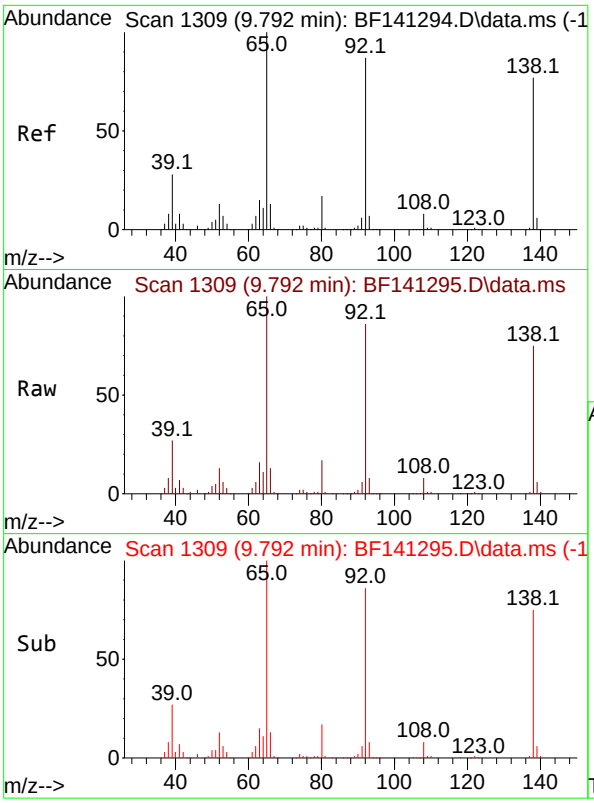


#52
Acenaphthene
Concen: 48.322 ng
RT: 9.875 min Scan# 1323
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:154 Resp: 789039

Ion	Ratio	Lower	Upper
154	100		
153	111.1	89.0	133.4
152	50.3	40.2	60.4





#53
3-Nitroaniline
Concen: 47.528 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

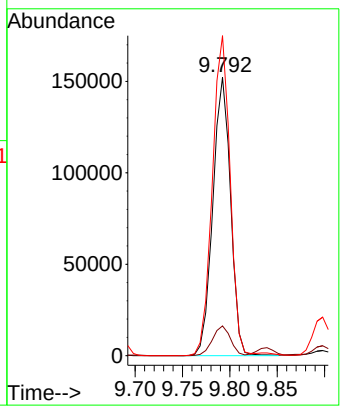
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

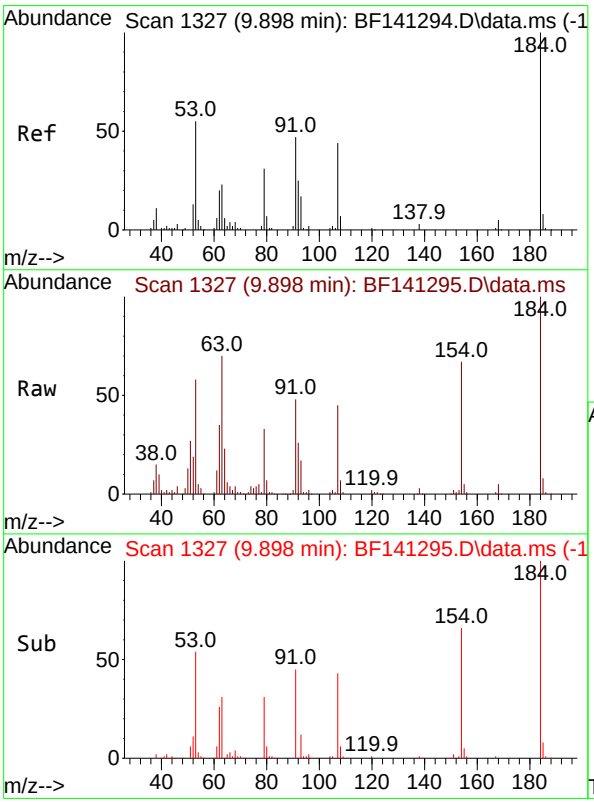
Tgt Ion:138 Resp: 19783

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.6	12.8
92	115.0	91.0	136.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

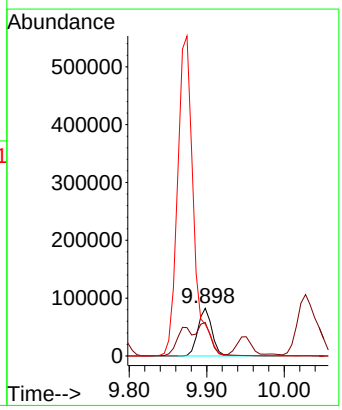


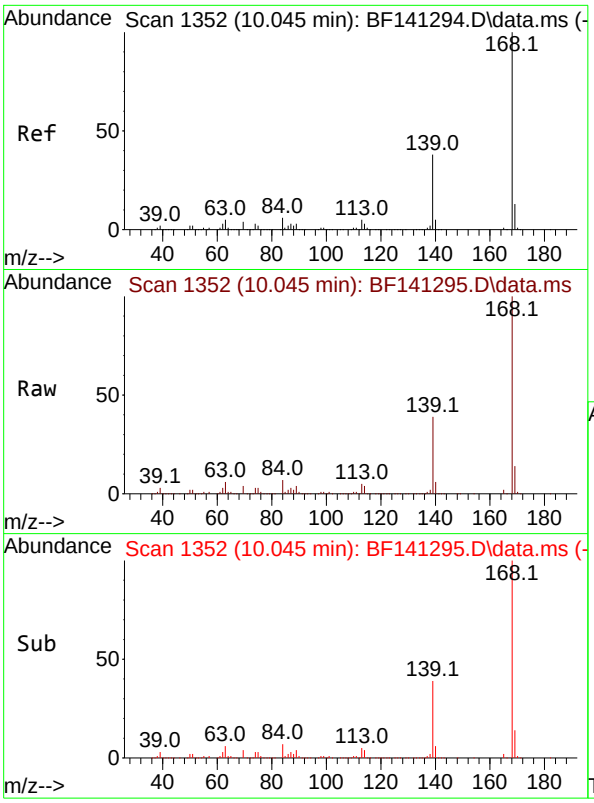


#54
2,4-Dinitrophenol
Concen: 53.096 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:184 Resp: 105313

Ion	Ratio	Lower	Upper
184	100		
63	70.3	54.1	81.1
154	66.8	50.7	76.1





#55
Dibenzofuran
Concen: 47.082 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

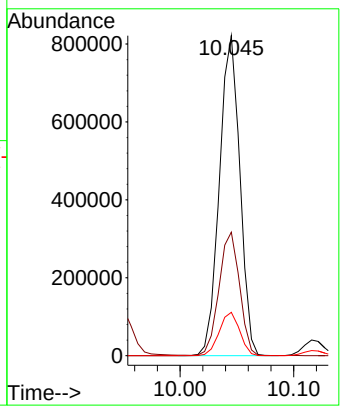
Tgt Ion:168 Resp: 102818

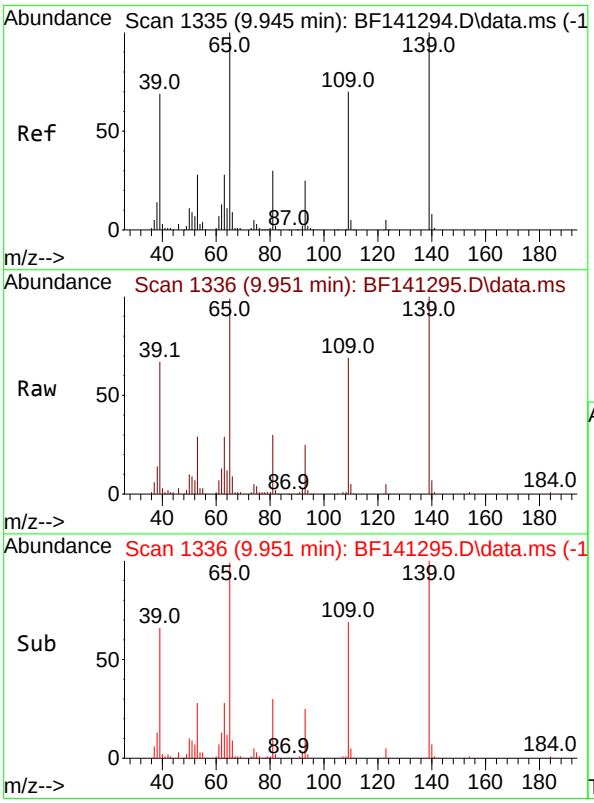
Ion	Ratio	Lower	Upper
168	100		
139	38.6	30.6	46.0
169	13.6	10.8	16.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

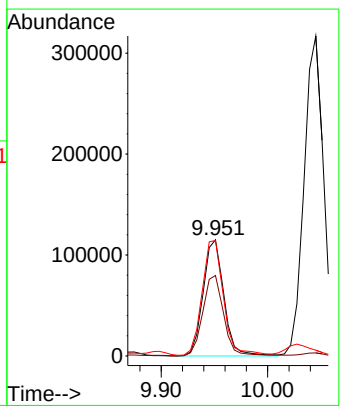


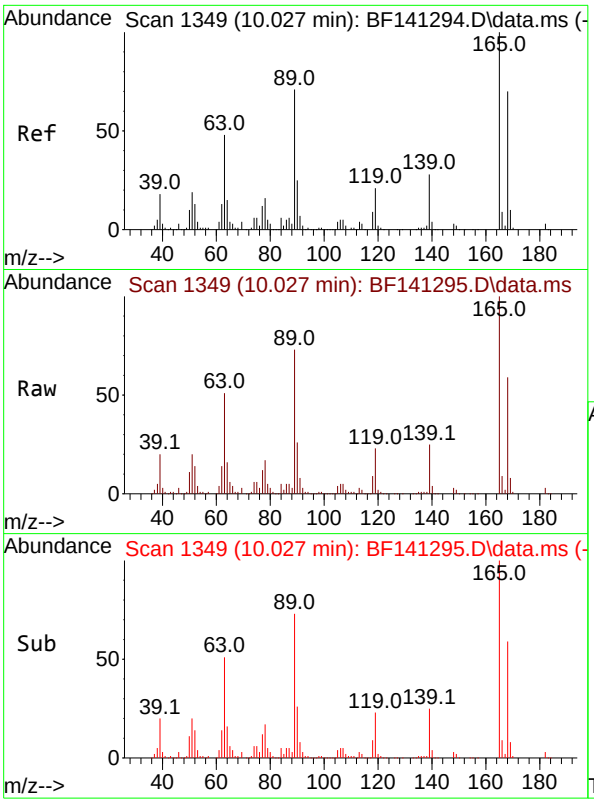


#56
4-Nitrophenol
Concen: 52.067 ng
RT: 9.951 min Scan# 1336
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:139 Resp: 155594

Ion	Ratio	Lower	Upper
139	100		
109	69.3	50.2	90.2
65	99.5	80.6	120.6

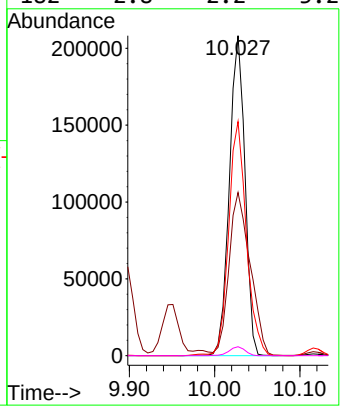




#57
2,4-Dinitrotoluene
Concen: 48.700 ng
RT: 10.027 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:165 Resp: 26432

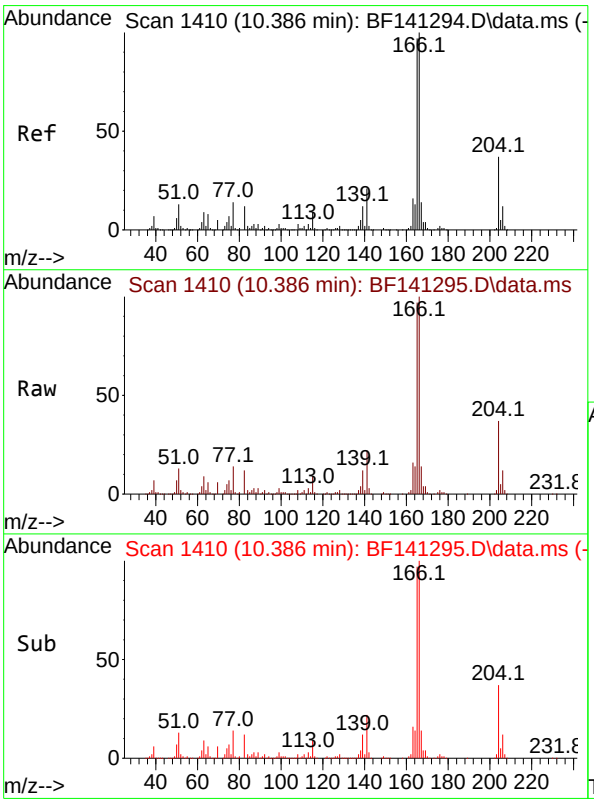
Ion	Ratio	Lower	Upper
165	100		
63	51.0	39.2	58.8
89	73.1	56.9	85.3
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

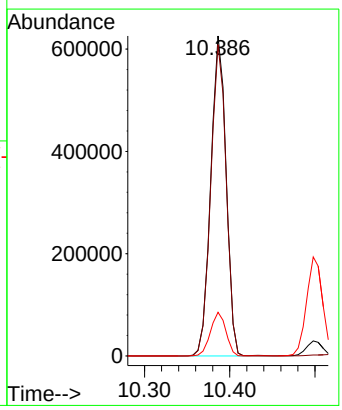
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

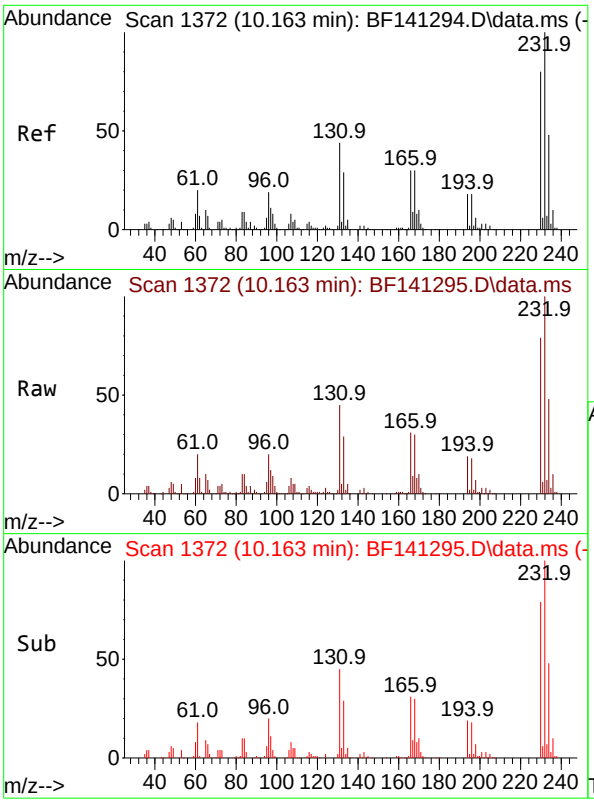


#58
Fluorene
Concen: 46.215 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:166 Resp: 784644

Ion	Ratio	Lower	Upper
166	100		
165	97.3	77.5	116.3
167	13.6	10.9	16.3

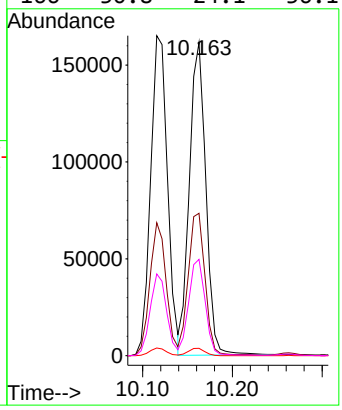




#59
2,3,4,6-Tetrachlorophenol
Concen: 47.772 ng
RT: 10.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:232 Resp: 20550

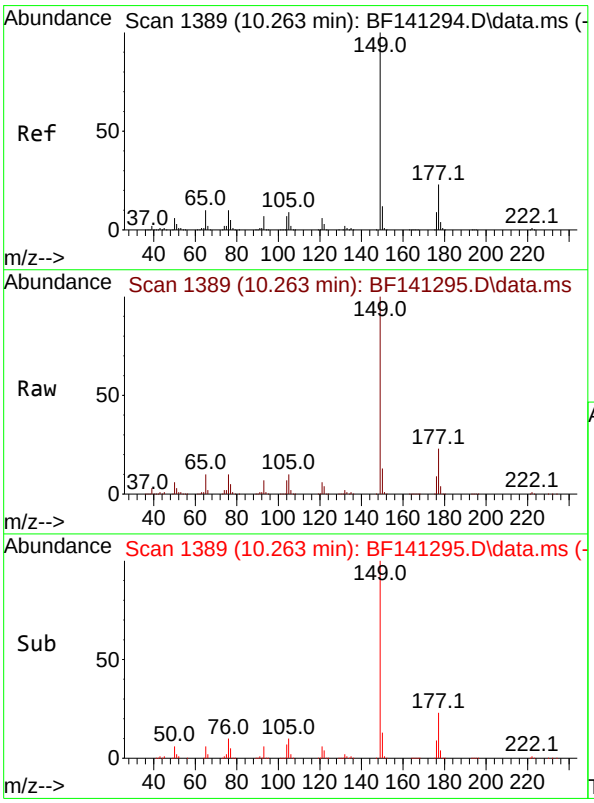
Ion	Ratio	Lower	Upper
232	100		
131	46.9	36.4	54.6
130	2.4	1.9	2.9
166	30.8	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

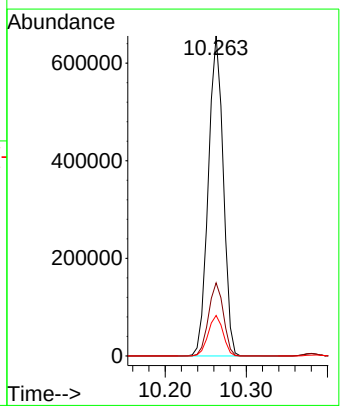
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

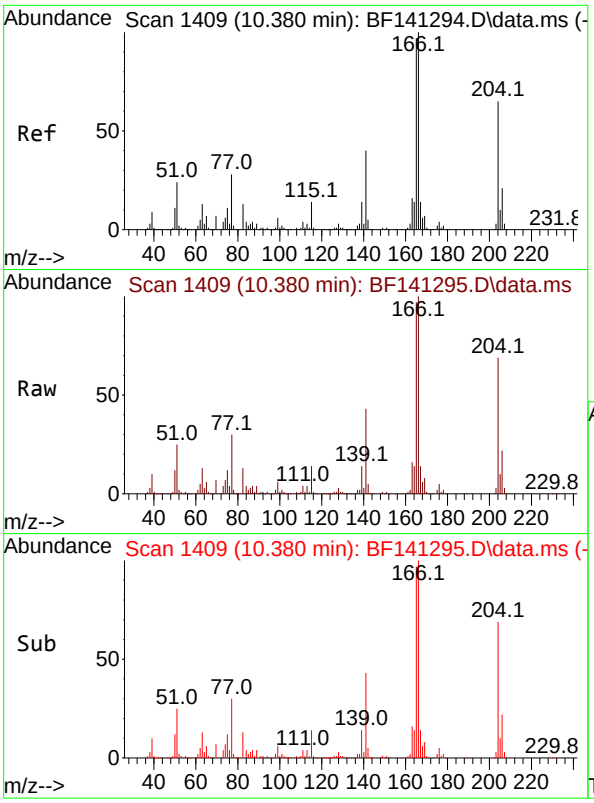


#60
Diethylphthalate
Concen: 47.668 ng
RT: 10.263 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:149 Resp: 834803

Ion	Ratio	Lower	Upper
149	100		
177	22.8	18.5	27.7
150	12.7	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 45.976 ng
RT: 10.380 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

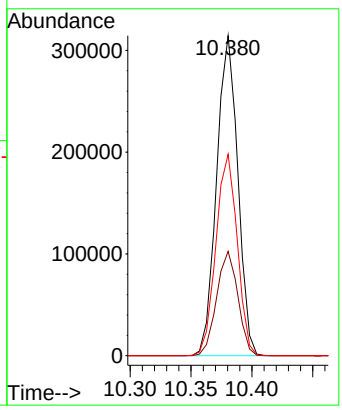
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

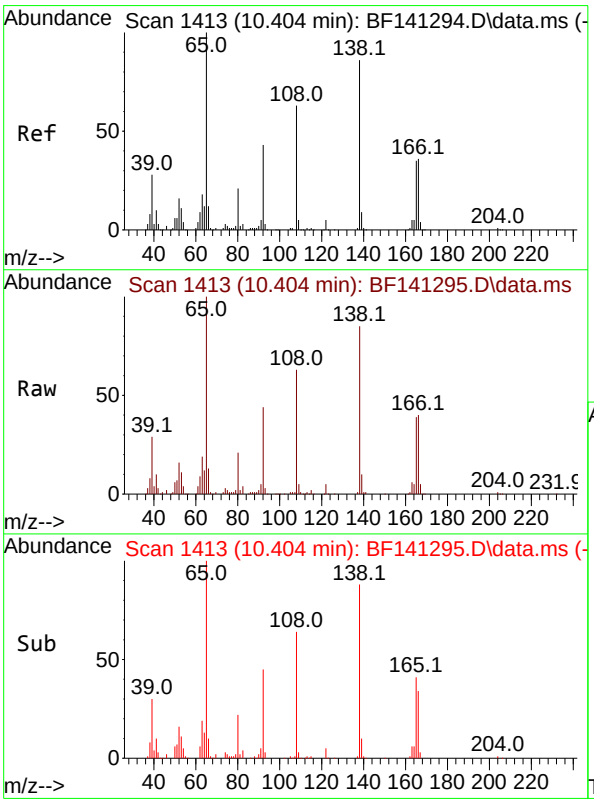
Tgt Ion:204 Resp: 380948

Ion	Ratio	Lower	Upper
204	100		
206	32.6	25.9	38.9
141	62.9	49.5	74.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

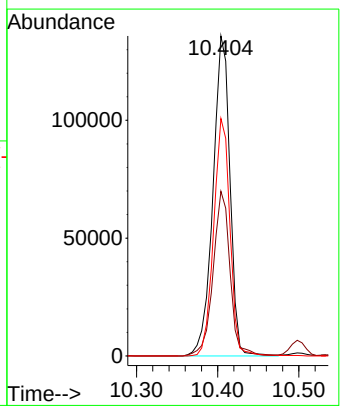


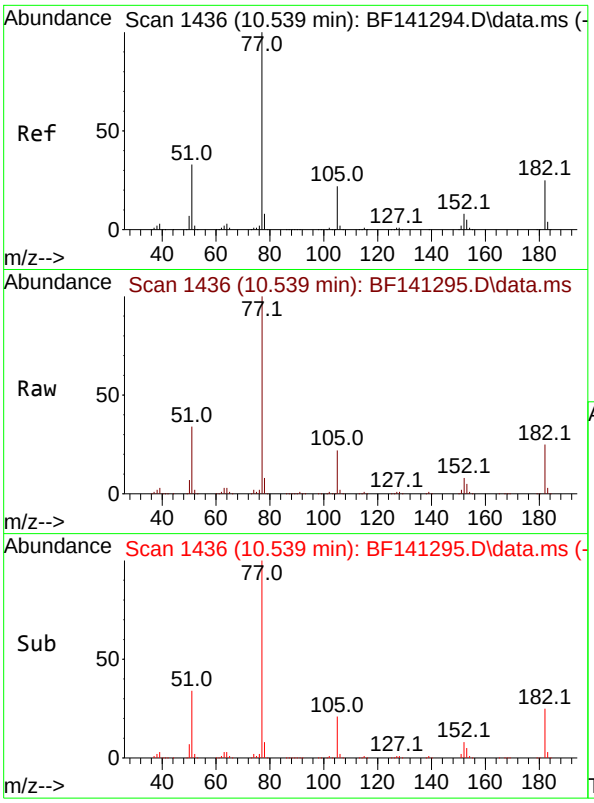


#62
4-Nitroaniline
Concen: 49.579 ng
RT: 10.404 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:138 Resp: 198241

Ion	Ratio	Lower	Upper
138	100		
92	51.5	30.1	70.1
108	74.2	53.1	93.1

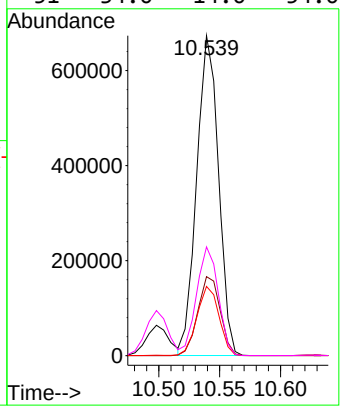




#63
Azobenzene
Concen: 47.955 ng
RT: 10.539 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion: 77 Resp: 84179

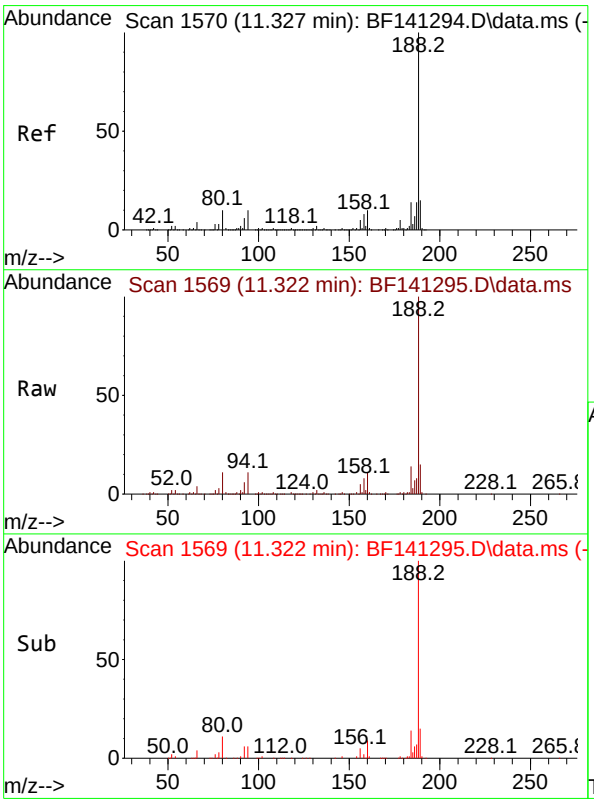
Ion	Ratio	Lower	Upper
77	100		
182	24.7	5.1	45.1
105	21.7	1.8	41.8
51	34.0	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

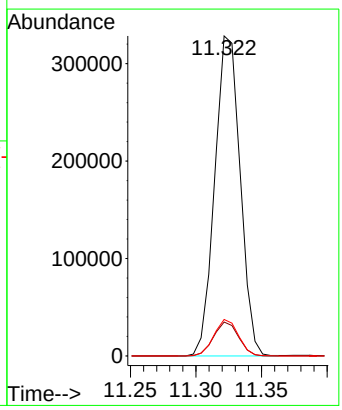
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

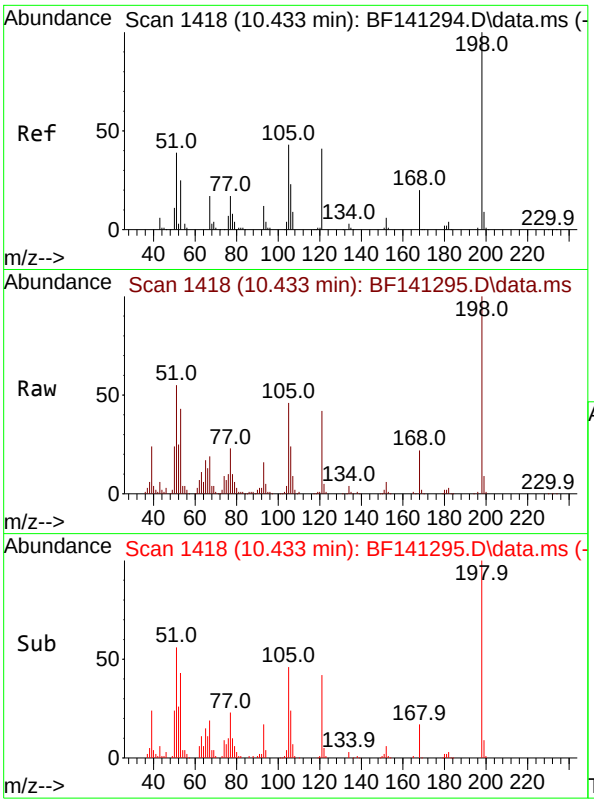


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:188 Resp: 442506

Ion	Ratio	Lower	Upper
188	100		
94	10.6	7.8	11.6
80	11.4	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 54.710 ng
RT: 10.433 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

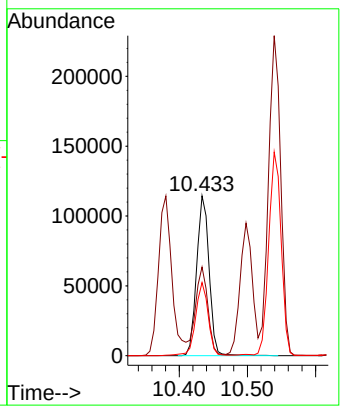
Tgt Ion:198 Resp: 14457

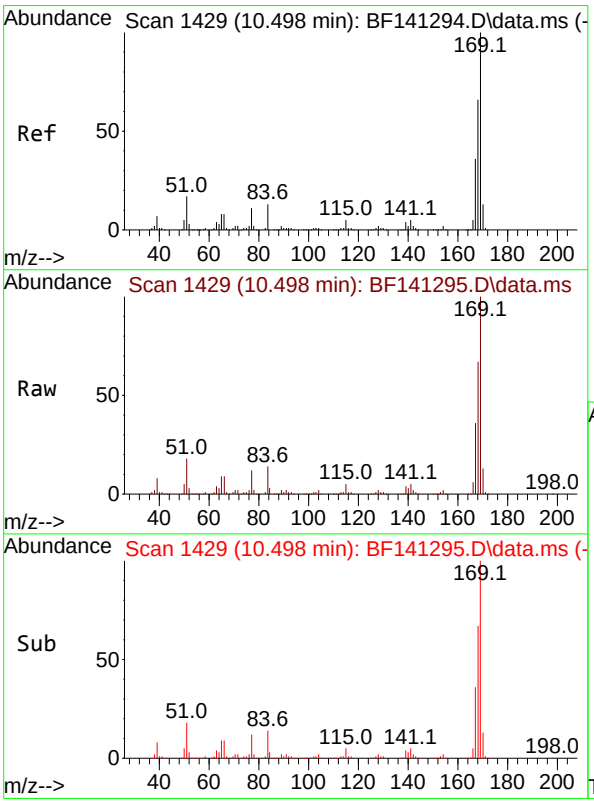
Ion	Ratio	Lower	Upper
198	100		
51	55.4	33.4	73.4
105	45.8	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

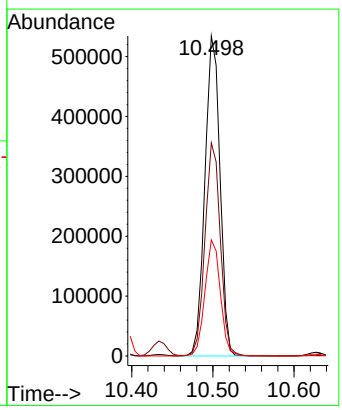


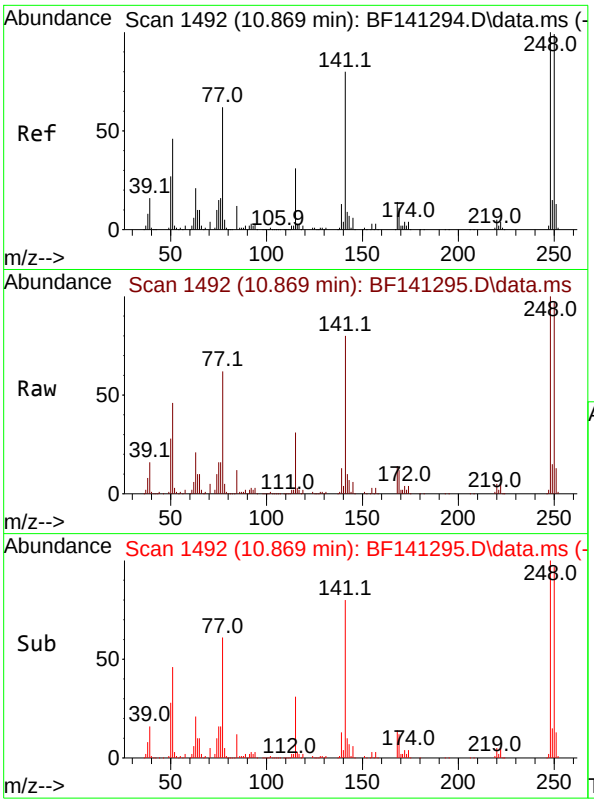


#66
n-Nitrosodiphenylamine
Concen: 47.968 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:169 Resp: 688202

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.0	79.4
167	36.2	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 48.745 ng
RT: 10.869 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

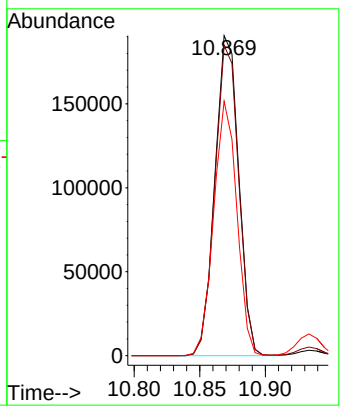
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

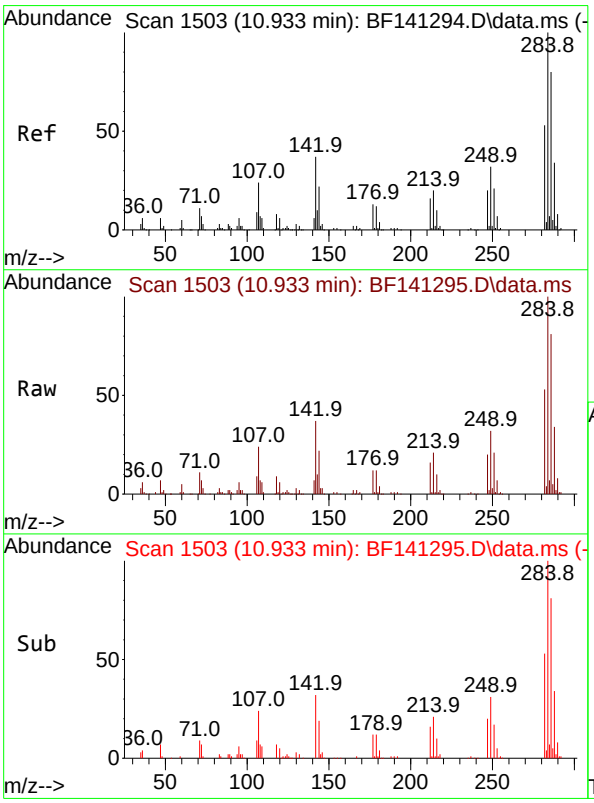
Tgt Ion:248 Resp: 24112

Ion	Ratio	Lower	Upper
248	100		
250	97.0	79.0	118.4
141	79.5	63.7	95.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

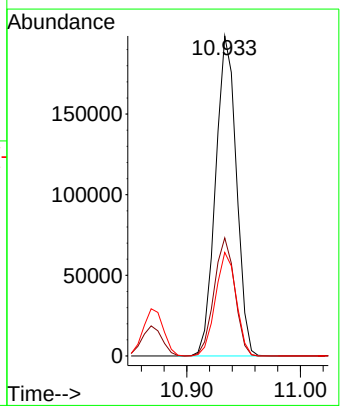


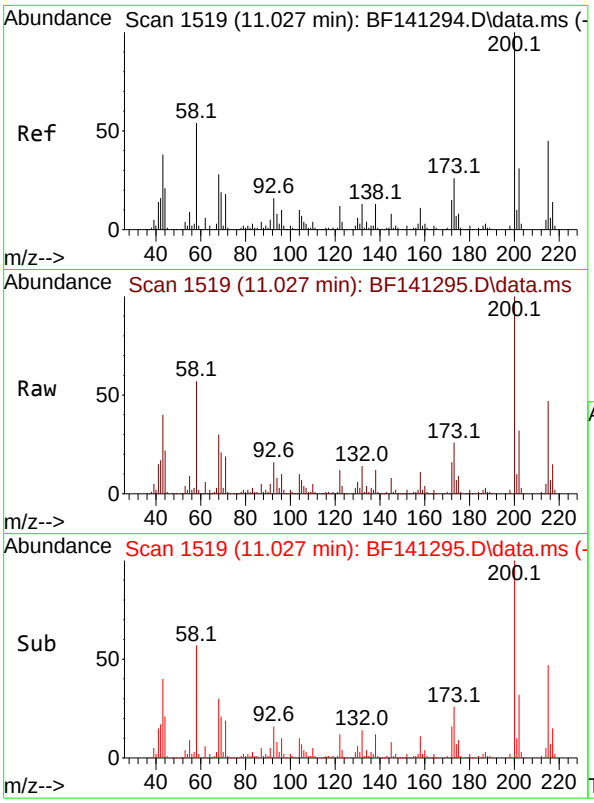


#68
Hexachlorobenzene
Concen: 48.250 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:284 Resp: 253174

Ion	Ratio	Lower	Upper
284	100		
142	36.9	29.5	44.3
249	32.3	25.4	38.2





#69
Atrazine
Concen: 49.457 ng
RT: 11.027 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

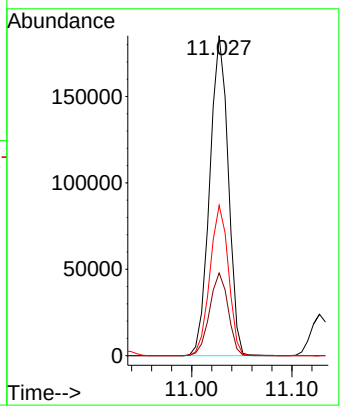
Instrument :
BNA_F
ClientSampleId :
SSTDICC050

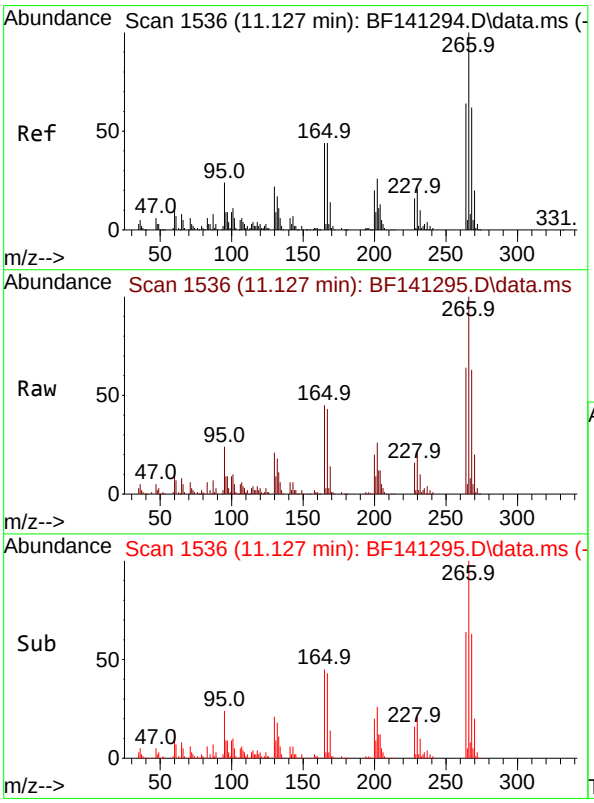
Tgt Ion:200 Resp: 23799

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	46.9	25.2	65.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

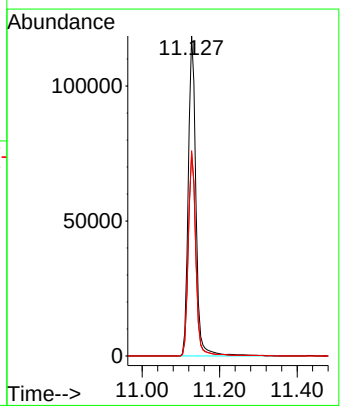


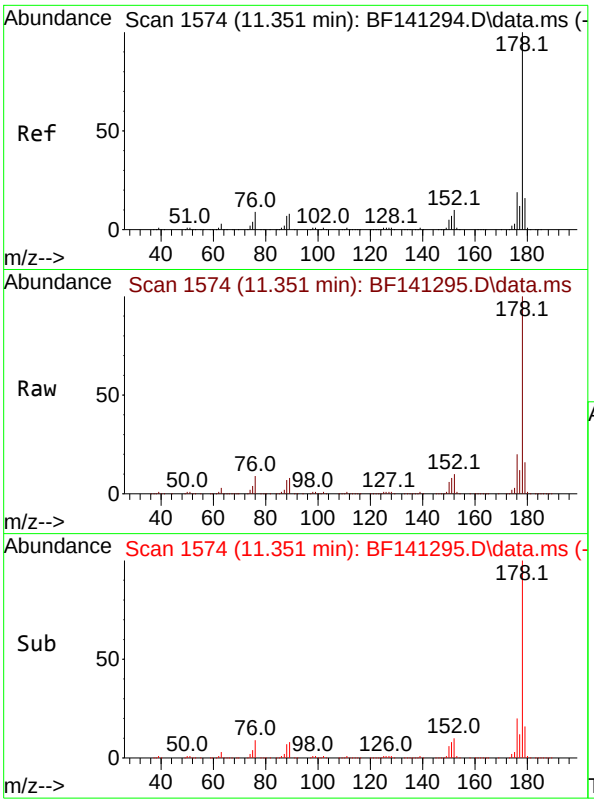


#70
Pentachlorophenol
Concen: 52.515 ng
RT: 11.127 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:266 Resp: 161568

Ion	Ratio	Lower	Upper
266	100		
268	63.3	49.9	74.9
264	64.1	51.0	76.4

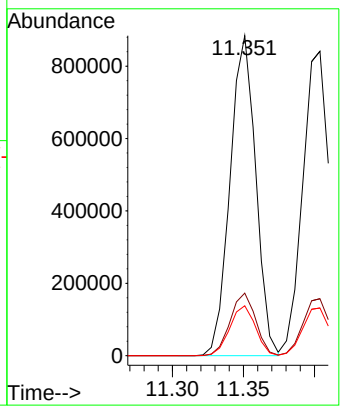




#71
Phenanthrene
Concen: 46.903 ng
RT: 11.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:178 Resp: 111492

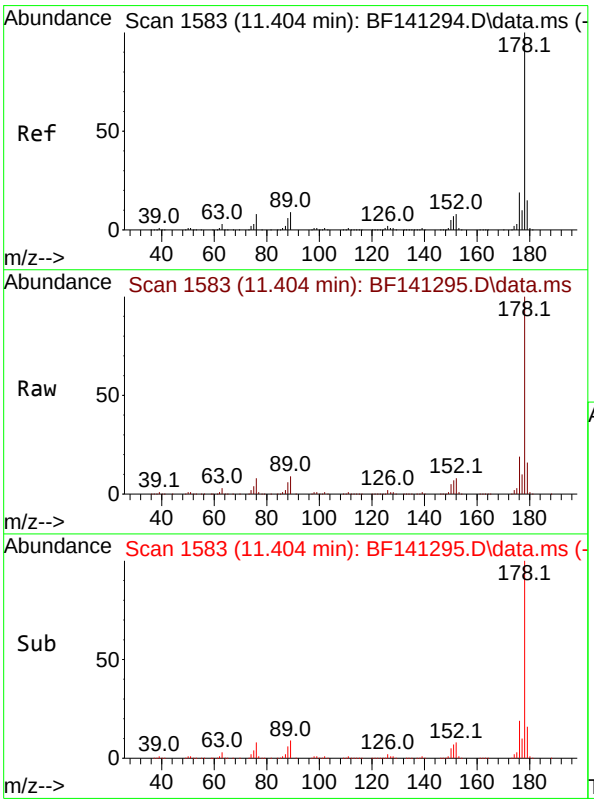
Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.6	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

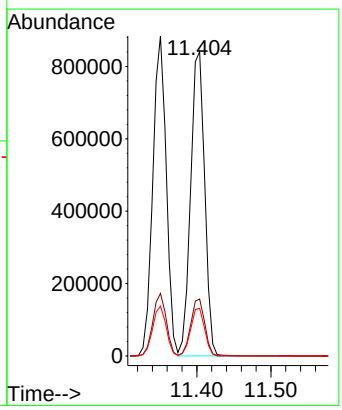
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

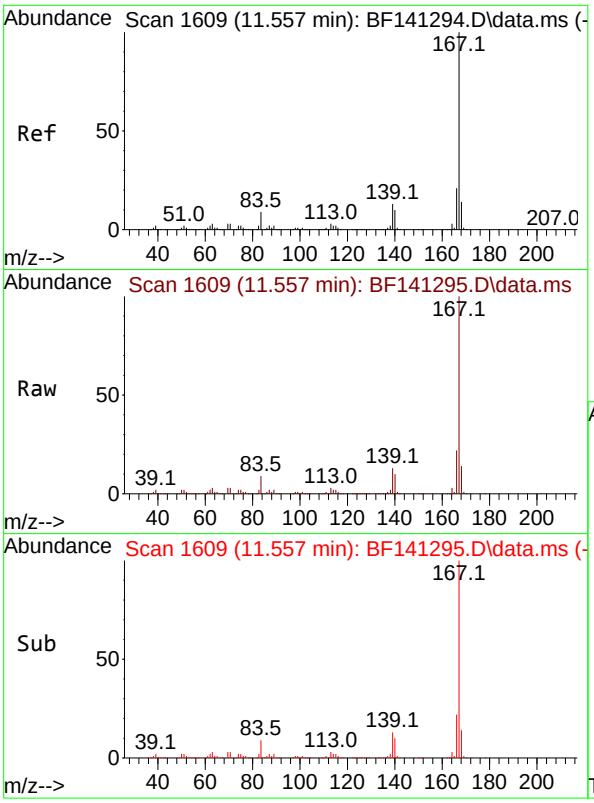


#72
Anthracene
Concen: 47.686 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:178 Resp: 1105681

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.6	12.3	18.5

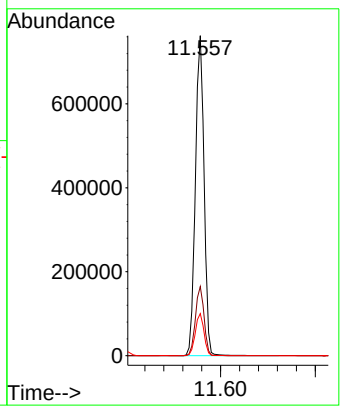




#73
Carbazole
Concen: 47.304 ng
RT: 11.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:167 Resp: 97154

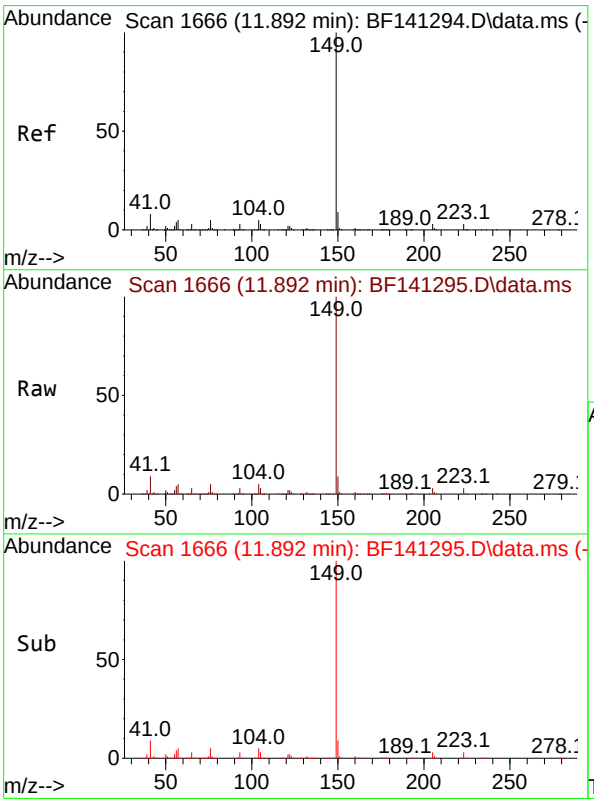
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.1	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

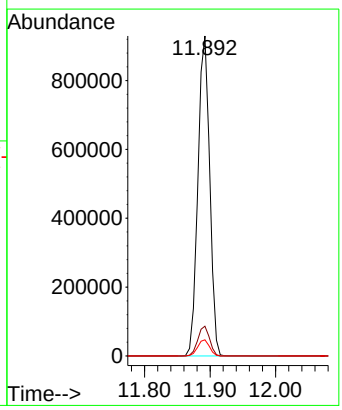
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

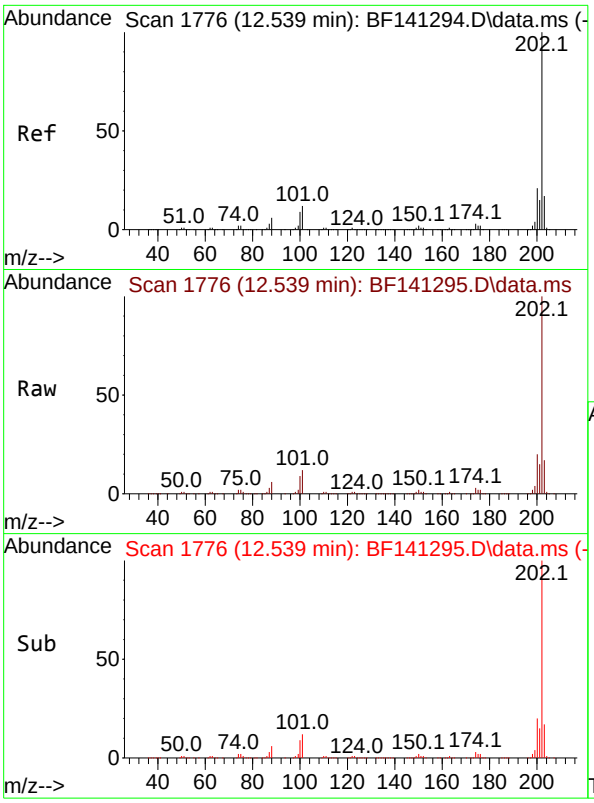


#74
Di-n-butylphthalate
Concen: 46.961 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:149 Resp: 1162607

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.0	3.9	5.9

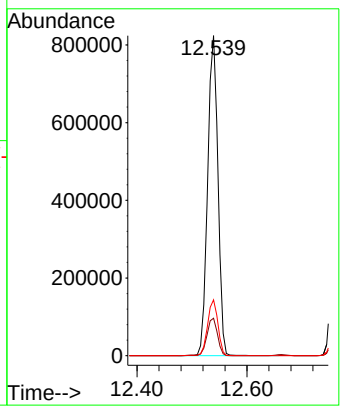




#75
Fluoranthene
Concen: 45.923 ng
RT: 12.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:202 Resp: 106551

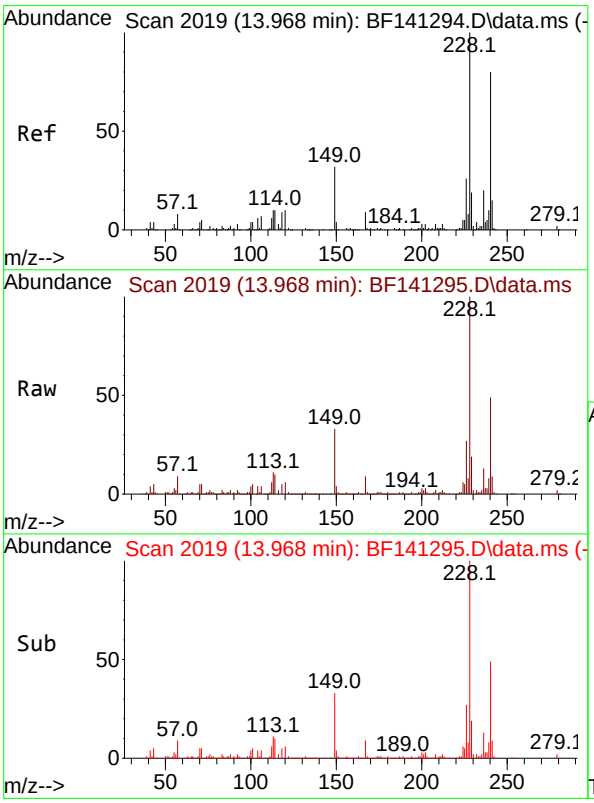
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.7
203	17.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

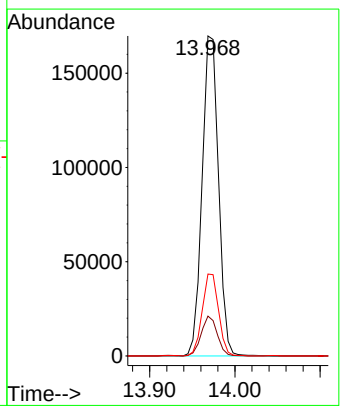
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

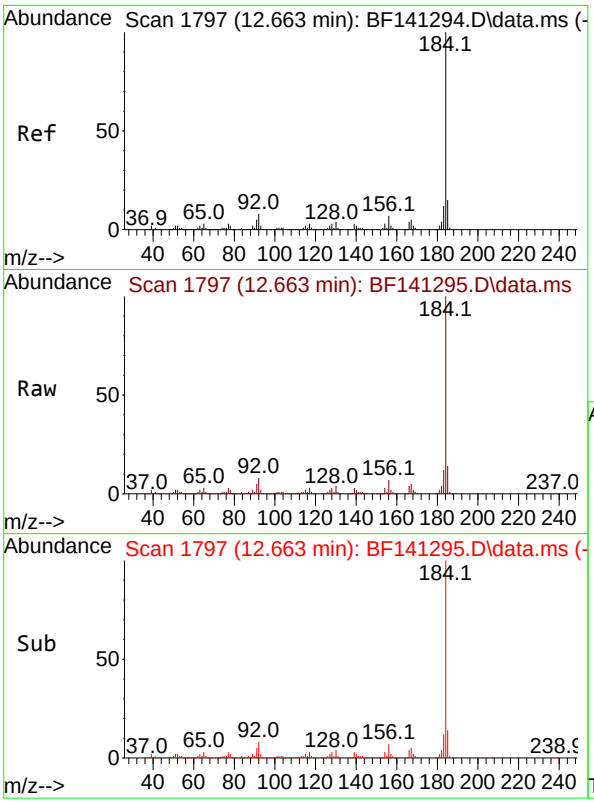


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:240 Resp: 226571

Ion	Ratio	Lower	Upper
240	100		
120	12.5	10.0	15.0
236	25.6	19.7	29.5

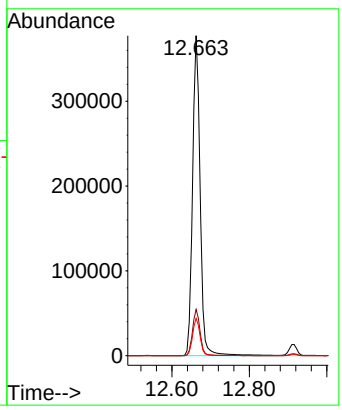




#77
Benzidine
Concen: 74.515 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:184 Resp: 51335

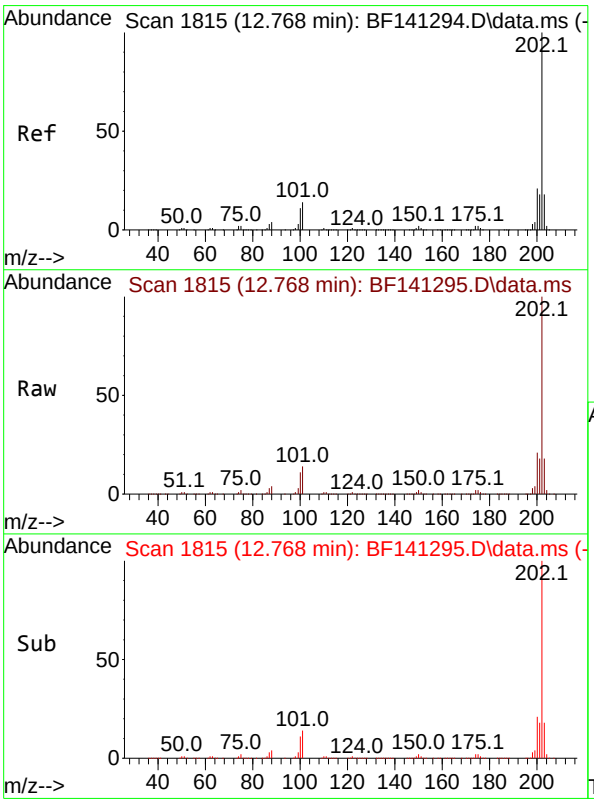
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.9	17.9
183	11.7	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

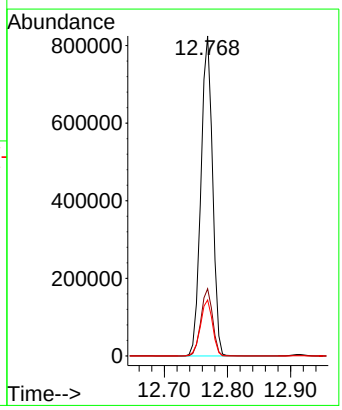
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

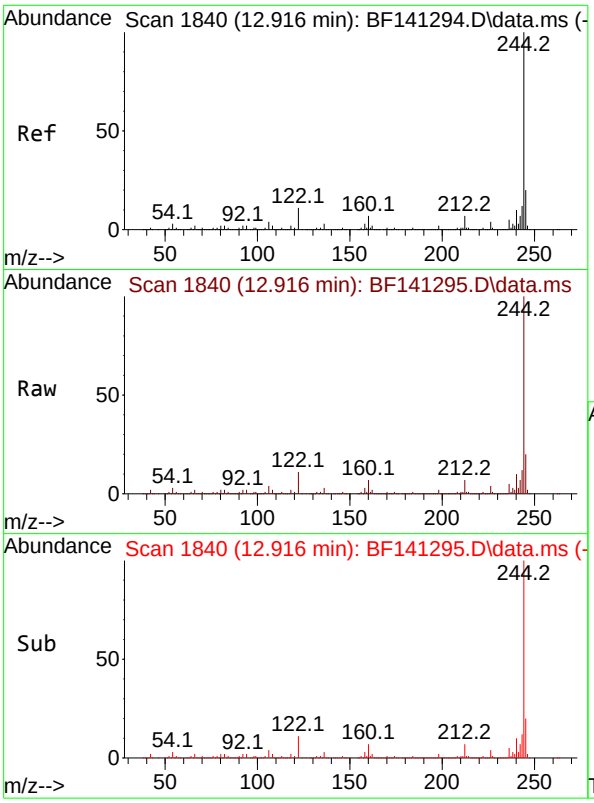


#78
Pyrene
Concen: 48.410 ng
RT: 12.768 min Scan# 1815
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:202 Resp: 1059044

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.5	14.3	21.5

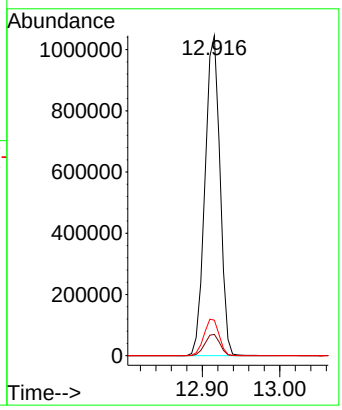




#79
Terphenyl-d14
Concen: 95.222 ng
RT: 12.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:244 Resp: 140210

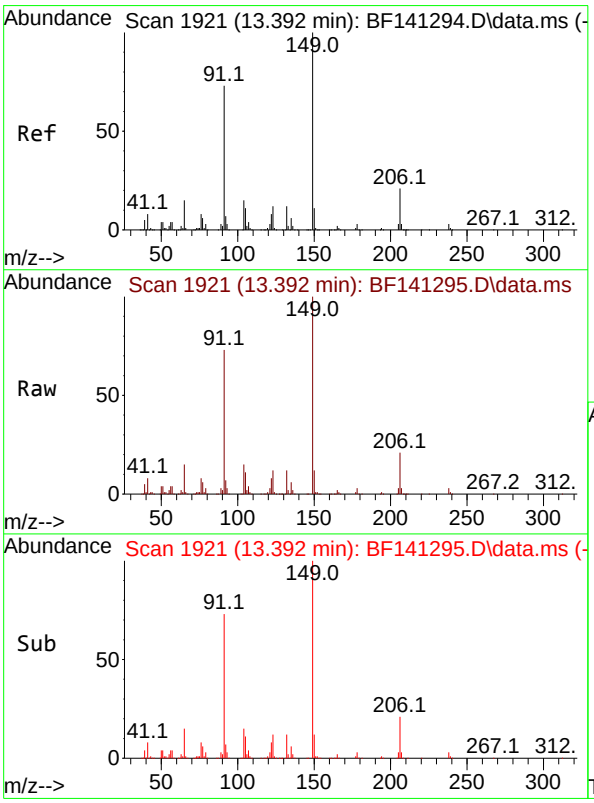
Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.1	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

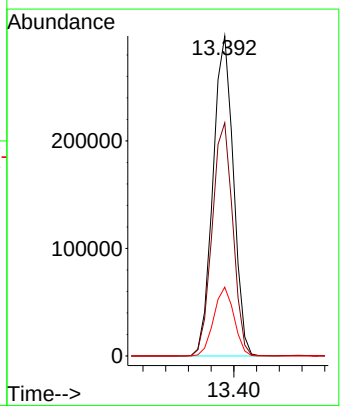
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

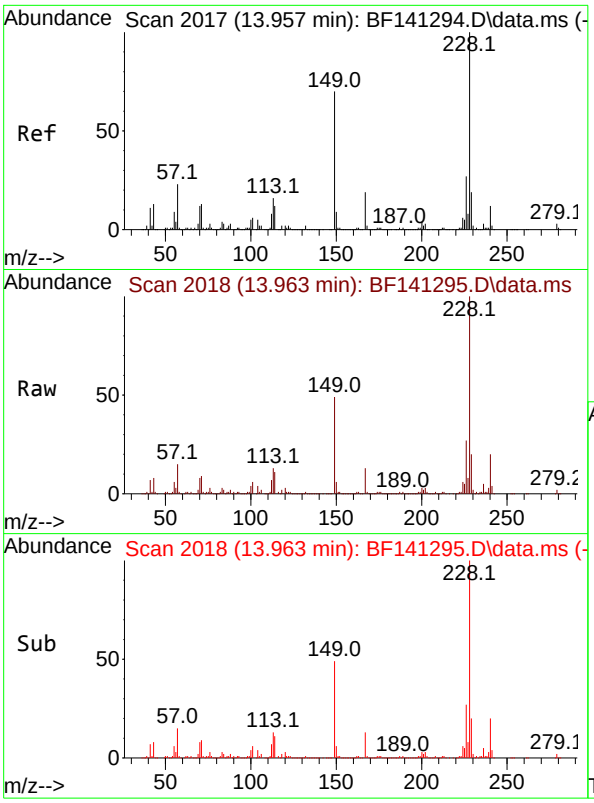


#80
Butylbenzylphthalate
Concen: 49.222 ng
RT: 13.392 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:149 Resp: 371889

Ion	Ratio	Lower	Upper
149	100		
91	72.9	58.6	87.8
206	21.5	16.7	25.1





#81
Benzo(a)anthracene
Concen: 50.158 ng
RT: 13.963 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

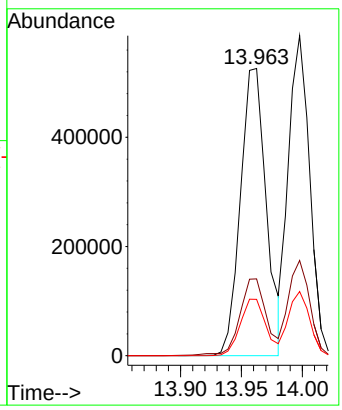
Tgt Ion:228 Resp: 77892

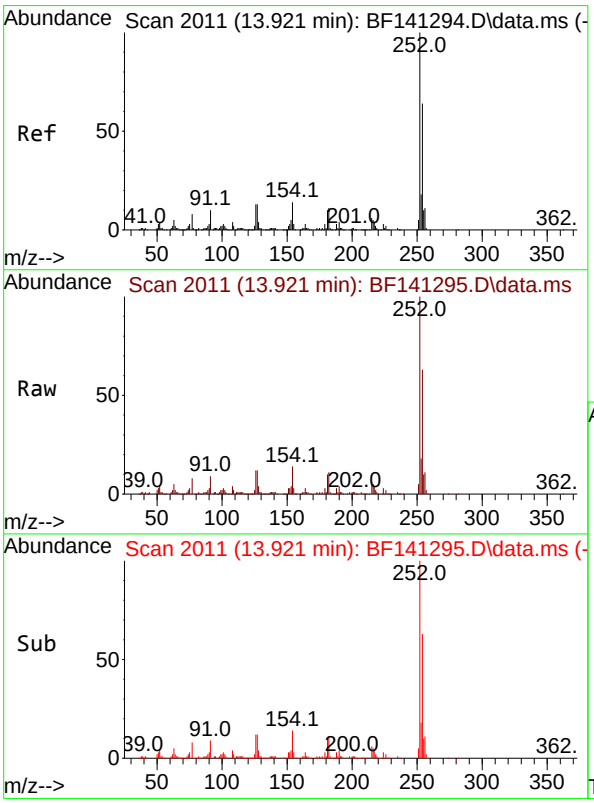
Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.2
229	19.6	15.5	23.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

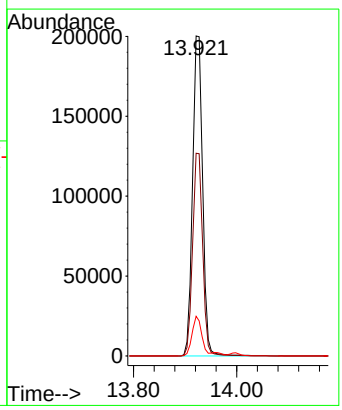


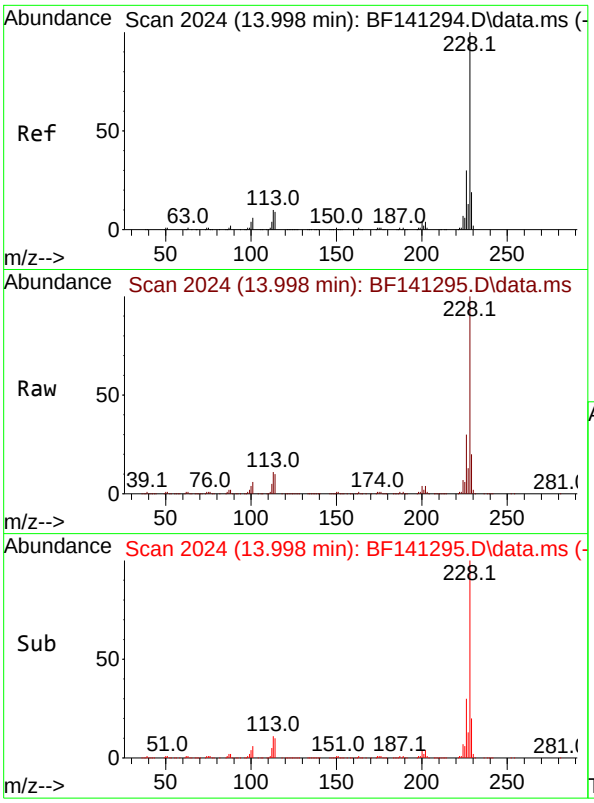


#82
3,3'-Dichlorobenzidine
Concen: 55.645 ng
RT: 13.921 min Scan# 2011
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:252 Resp: 270572

Ion	Ratio	Lower	Upper
252	100		
254	63.3	51.3	76.9
126	12.4	10.0	15.0

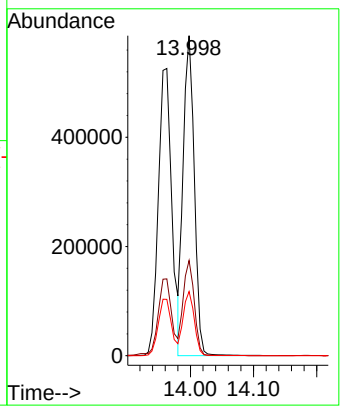




#83
Chrysene
Concen: 49.829 ng
RT: 13.998 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:228 Resp: 71756

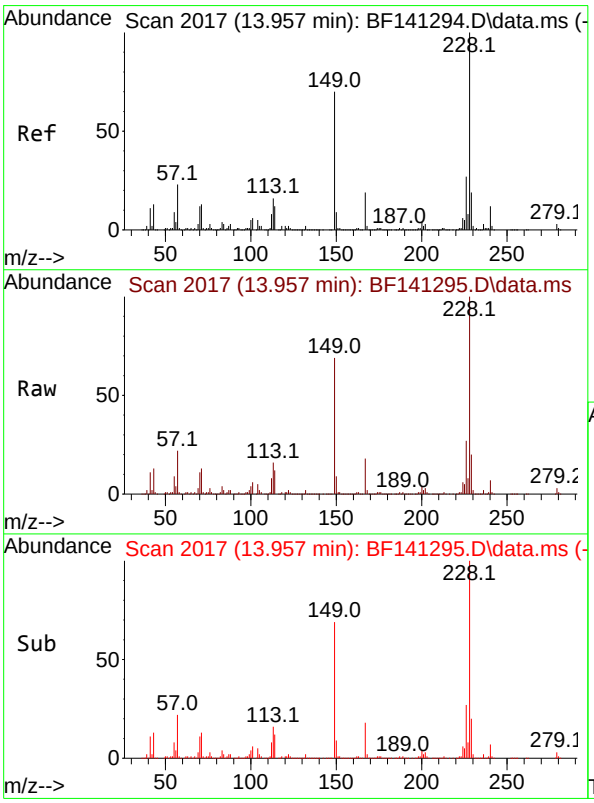
Ion	Ratio	Lower	Upper
228	100		
226	29.7	24.1	36.1
229	20.1	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

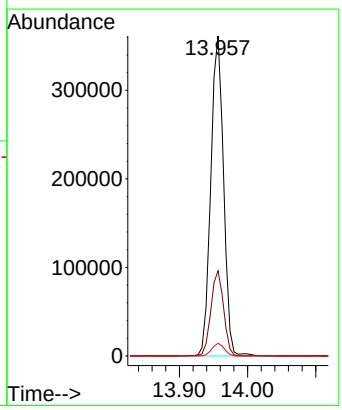
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

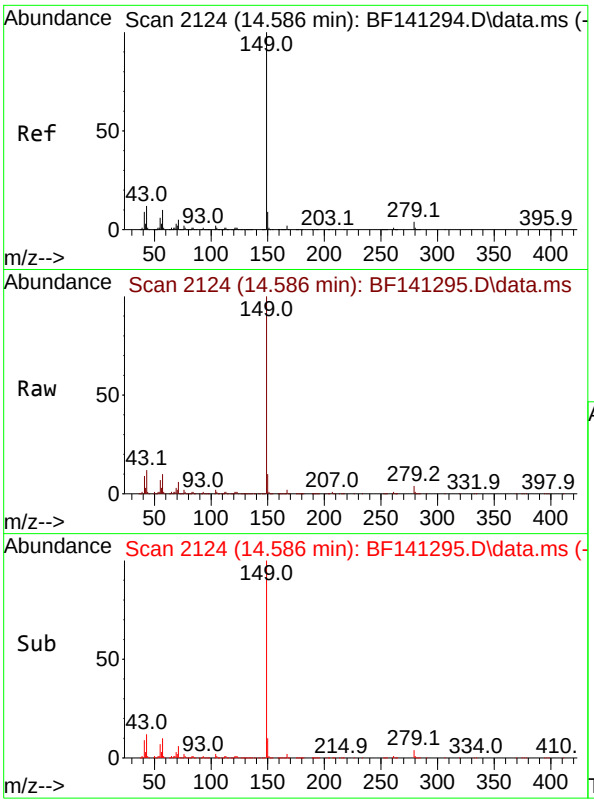


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.620 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:149 Resp: 470441

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.8	32.8
279	3.9	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 52.127 ng
RT: 14.586 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

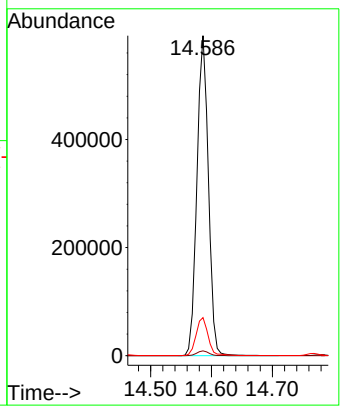
Tgt Ion:149 Resp: 77303

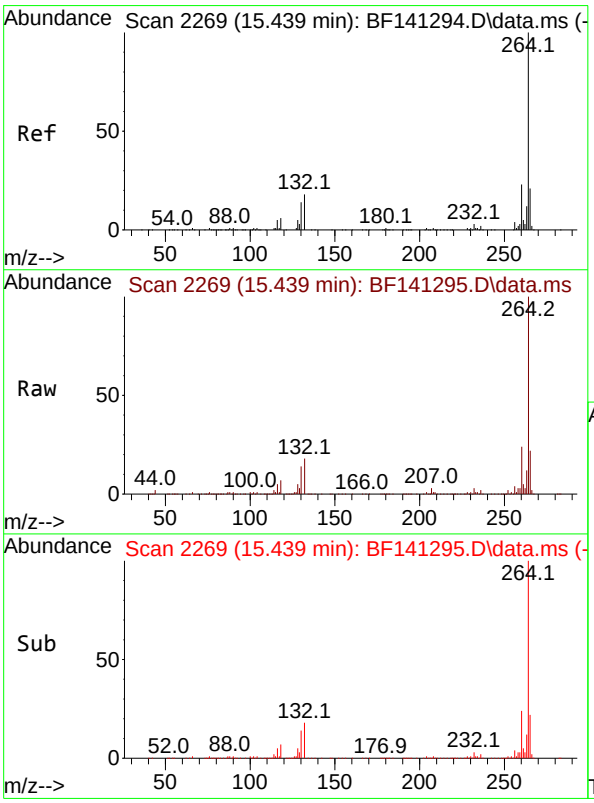
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.4	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

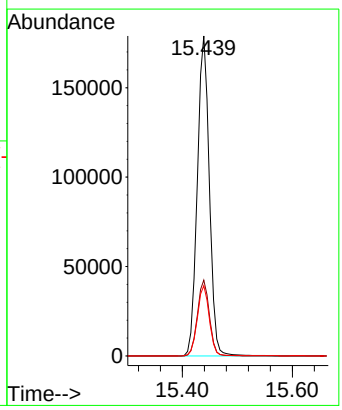


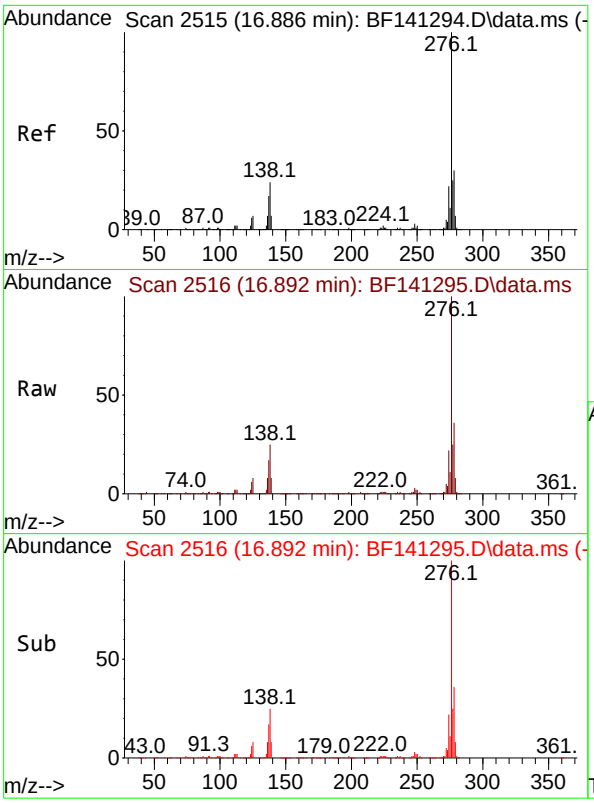


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:264 Resp: 272084

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	27.8
265	22.0	16.7	25.1

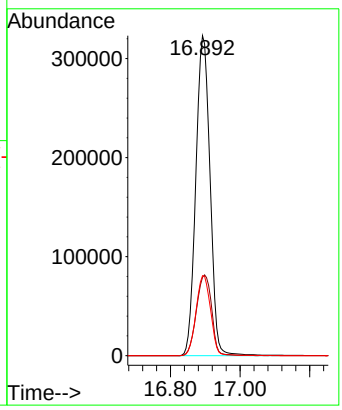




#87
Indeno(1,2,3-cd)pyrene
Concen: 51.584 ng
RT: 16.892 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:276 Resp: 91671

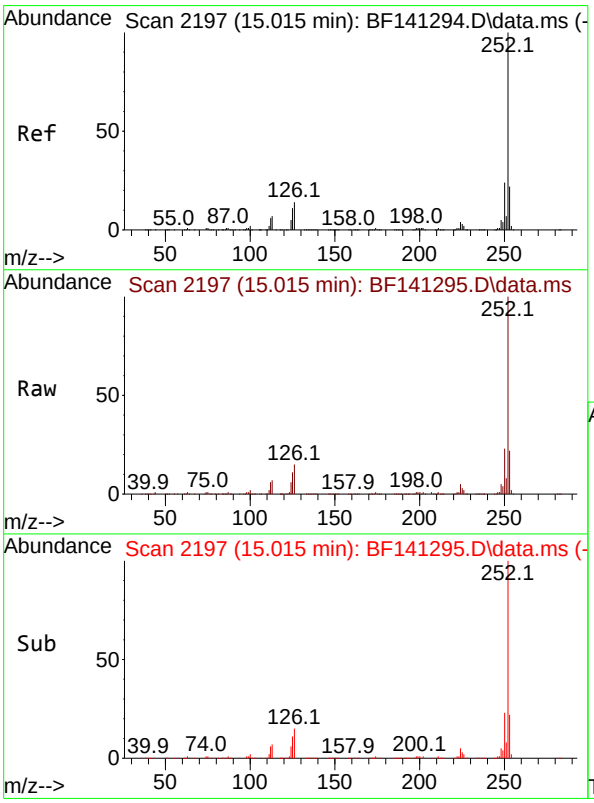
Ion	Ratio	Lower	Upper
276	100		
138	27.0	21.7	32.5
277	25.5	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

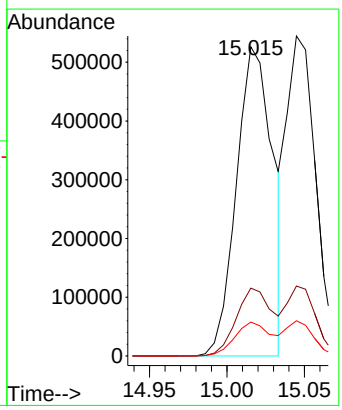
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

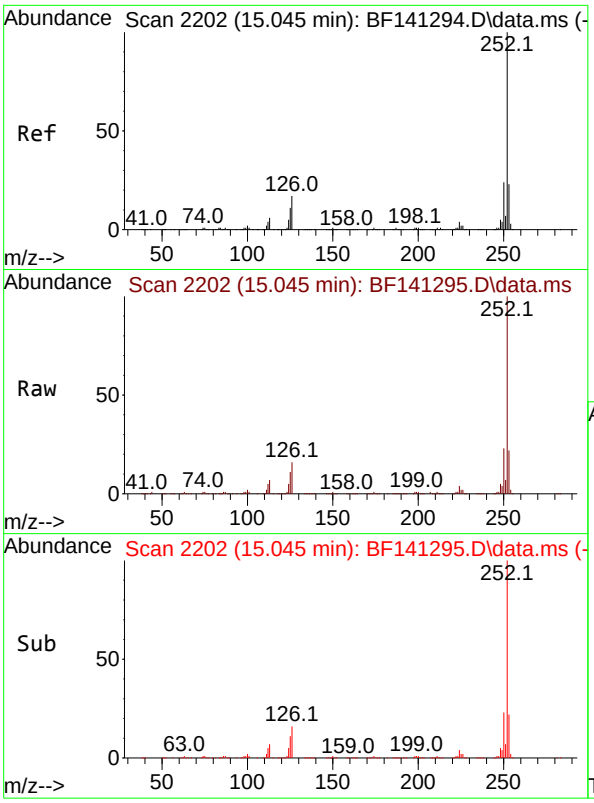


#88
Benzo(b)fluoranthene
Concen: 50.916 ng
RT: 15.015 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:252 Resp: 860351

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	11.0	8.6	12.8





#89
Benzo(k)fluoranthene
Concen: 47.153 ng
RT: 15.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

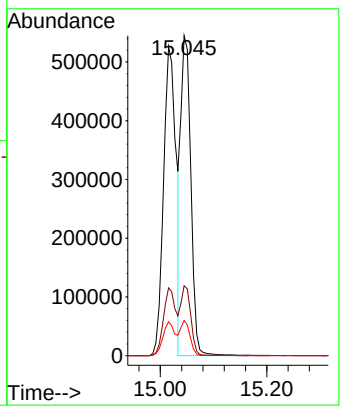
Tgt Ion:252 Resp: 71350

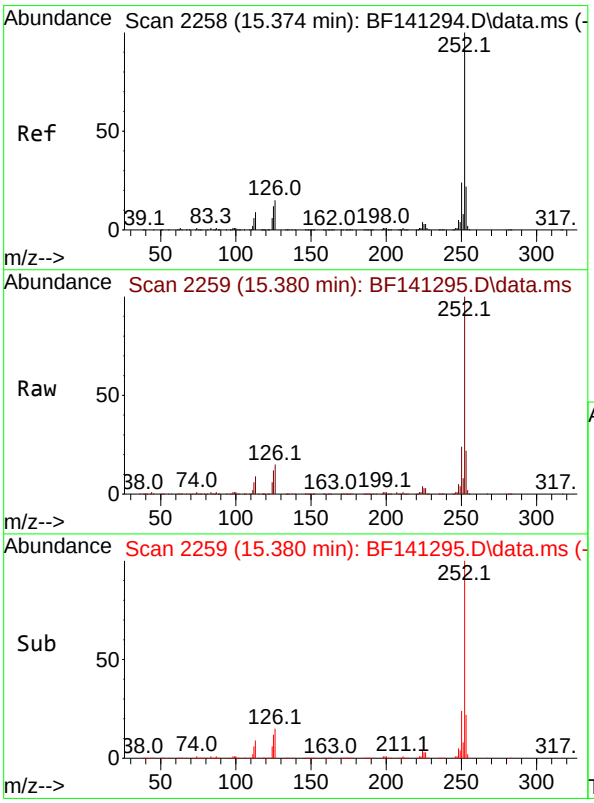
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	11.0	8.4	12.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

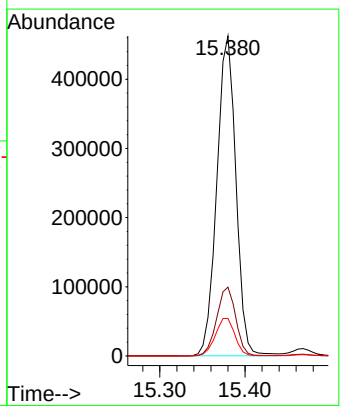


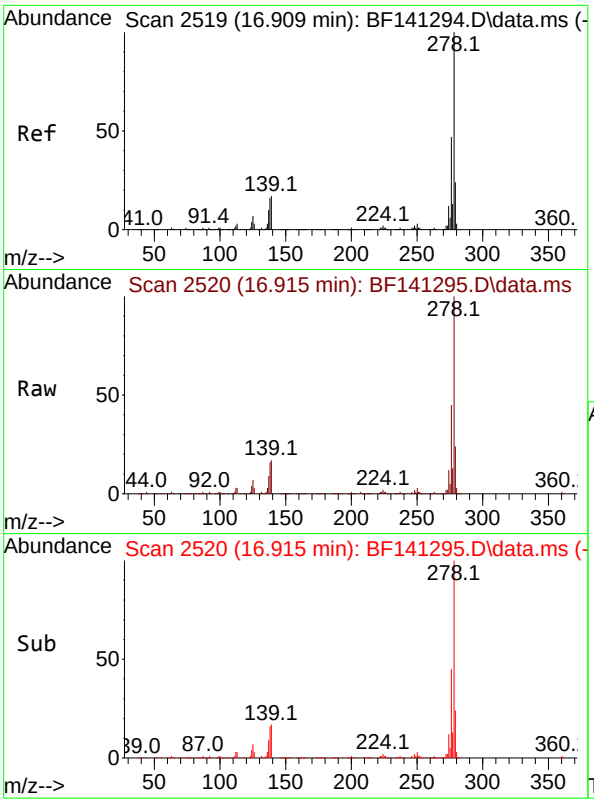


#90
Benzo(a)pyrene
Concen: 49.985 ng
RT: 15.380 min Scan# 2259
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:252 Resp: 721834

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	11.7	9.4	14.2

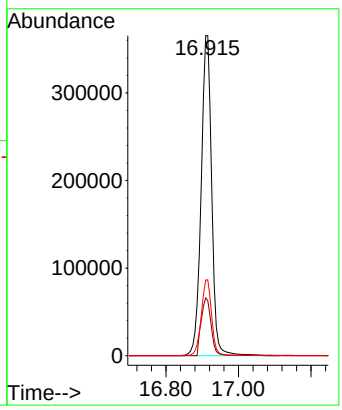




#91
Dibenzo(a,h)anthracene
Concen: 51.907 ng
RT: 16.915 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:278 Resp: 73939

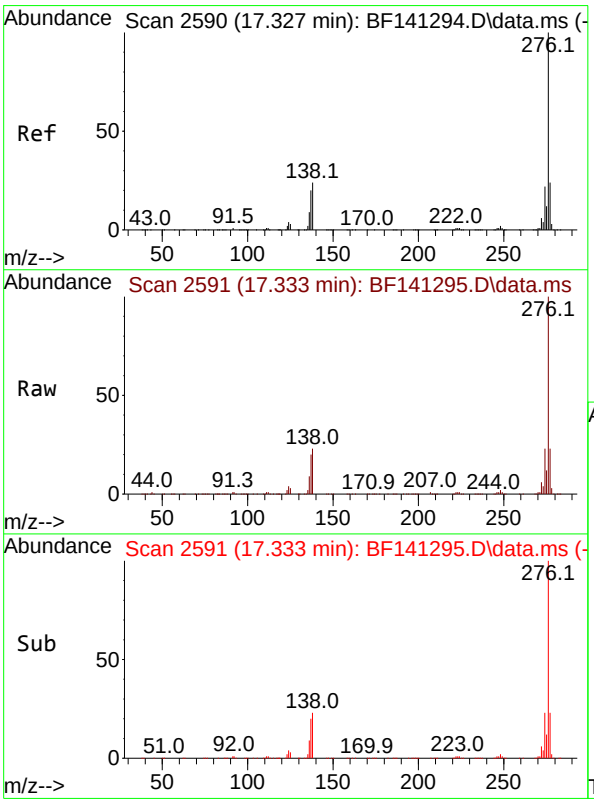
Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.9	20.9
279	23.7	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

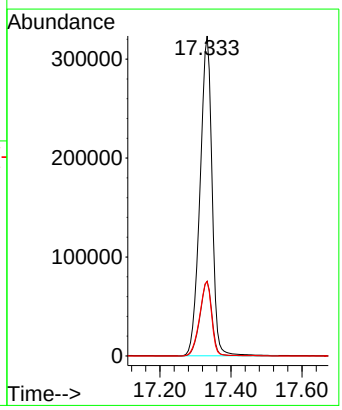
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 50.990 ng
RT: 17.333 min Scan# 2591
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:276 Resp: 764064

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.2	28.8
138	23.2	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141296.D
Acq On : 29 Jan 2025 16:38
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 29 17:20:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:14:44 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	125203	20.000	ng		0.00
21) Naphthalene-d8	8.086	136	490777	20.000	ng		0.00
39) Acenaphthene-d10	9.839	164	260269	20.000	ng		0.00
64) Phenanthrene-d10	11.327	188	434671	20.000	ng		0.00
76) Chrysene-d12	13.974	240	225615	20.000	ng		0.00
86) Perylene-d12	15.451	264	265921	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	952391	113.729	ng		0.00
7) Phenol-d6	6.434	99	1210477	113.542	ng		0.00
23) Nitrobenzene-d5	7.369	82	1098197	115.711	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	279105	113.824	ng		0.00
45) 2-Fluorobiphenyl	9.163	172	1824372	102.411	ng		0.00
79) Terphenyl-d14	12.916	244	1665591	109.453	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.487	88	213805	58.657	ng		99
3) Pyridine	3.216	79	527201	60.698	ng		99
4) n-Nitrosodimethylamine	3.181	42	305314	61.956	ng		99
6) Aniline	6.463	93	506937	55.493	ng	#	89
8) 2-Chlorophenol	6.587	128	509043	56.606	ng		98
9) Benzaldehyde	6.351	77	314238	48.677	ng		98
10) Phenol	6.445	94	640034	56.549	ng		94
11) bis(2-Chloroethyl)ether	6.539	93	499321	58.245	ng		99
12) 1,3-Dichlorobenzene	6.739	146	553756	55.698	ng		99
13) 1,4-Dichlorobenzene	6.816	146	558572	55.945	ng		100
14) 1,2-Dichlorobenzene	6.975	146	513179	54.417	ng		99
15) Benzyl Alcohol	6.945	79	422722	58.473	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	859130	57.194	ng		99
17) 2-Methylphenol	7.057	107	420597	58.211	ng		99
18) Hexachloroethane	7.316	117	210746	57.649	ng		97
19) n-Nitroso-di-n-propyla...	7.222	70	355036	56.162	ng		97
20) 3+4-Methylphenols	7.210	107	496888	54.781	ng		98
22) Acetophenone	7.216	105	651575	53.679	ng		99
24) Nitrobenzene	7.386	77	572234	58.138	ng		99
25) Isophorone	7.622	82	953671	58.383	ng		98
26) 2-Nitrophenol	7.698	139	280785	61.652	ng		99
27) 2,4-Dimethylphenol	7.739	122	350784m	60.006	ng		
28) bis(2-Chloroethoxy)met...	7.833	93	605644	57.853	ng		99
29) 2,4-Dichlorophenol	7.939	162	421748	58.315	ng		99
30) 1,2,4-Trichlorobenzene	8.022	180	465841	55.787	ng		99
31) Naphthalene	8.104	128	1475900	54.933	ng		99
32) Benzoic acid	7.863	122	380664m	76.193	ng		
33) 4-Chloroaniline	8.157	127	513149	56.786	ng		99
34) Hexachlorobutadiene	8.222	225	275524	56.533	ng		100
35) Caprolactam	8.533	113	141023	60.337	ng		99
36) 4-Chloro-3-methylphenol	8.633	107	452438	58.389	ng		97
37) 2-Methylnaphthalene	8.792	142	941153	55.126	ng		98
38) 1-Methylnaphthalene	8.892	142	917389	54.632	ng		100
40) 1,2,4,5-Tetrachloroben...	8.963	216	430239	56.609	ng		100
41) Hexachlorocyclopentadiene	8.945	237	141387	66.154	ng		100
43) 2,4,6-Trichlorophenol	9.075	196	288290	58.588	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141296.D
Acq On : 29 Jan 2025 16:38
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:20:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:14:44 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	314912	59.000	ng	99
46) 1,1'-Biphenyl	9.263	154	1139946	54.084	ng	99
47) 2-Chloronaphthalene	9.286	162	902561	55.247	ng	99
48) 2-Nitroaniline	9.380	65	300339	59.861	ng	98
49) Acenaphthylene	9.698	152	1258733	54.924	ng	100
50) Dimethylphthalate	9.569	163	1012298	56.075	ng	100
51) 2,6-Dinitrotoluene	9.627	165	241241	58.050	ng	98
52) Acenaphthene	9.875	154	921519	56.639	ng	100
53) 3-Nitroaniline	9.792	138	232680	56.245	ng	99
54) 2,4-Dinitrophenol	9.898	184	132244	84.109	ng	95
55) Dibenzofuran	10.045	168	1202027	54.629	ng	99
56) 4-Nitrophenol	9.951	139	190620	66.120	ng	99
57) 2,4-Dinitrotoluene	10.027	165	315221	58.312	ng	97
58) Fluorene	10.386	166	915246	53.236	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	252964	60.106	ng	100
60) Diethylphthalate	10.263	149	983788	55.897	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	445841	53.136	ng	99
62) 4-Nitroaniline	10.410	138	242716	61.216	ng	99
63) Azobenzene	10.539	77	996603	56.821	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	174248	71.103	ng	99
66) n-Nitrosodiphenylamine	10.504	169	800147	55.423	ng	99
67) 4-Bromophenyl-phenylether	10.874	248	286647	57.957	ng	96
68) Hexachlorobenzene	10.933	284	302508	57.366	ng	99
69) Atrazine	11.033	200	306524	66.863	ng	99
70) Pentachlorophenol	11.127	266	194335	65.443	ng	99
71) Phenanthrene	11.351	178	1316980	54.311	ng	100
72) Anthracene	11.404	178	1298334	54.763	ng	99
73) Carbazole	11.557	167	1173330	55.874	ng	99
74) Di-n-butylphthalate	11.892	149	1410222	55.325	ng	100
75) Fluoranthene	12.539	202	1279995	52.878	ng	99
77) Benzidine	12.663	184	490009	67.692	ng	100
78) Pyrene	12.768	202	1284820	57.717	ng	100
80) Butylbenzylphthalate	13.392	149	465533	60.745	ng	99
81) Benzo(a)anthracene	13.962	228	917219	57.742	ng	99
82) 3,3'-Dichlorobenzidine	13.927	252	315503	64.819	ng	100
83) Chrysene	14.004	228	841120	58.239	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	564642	57.438	ng	99
85) Di-n-octyl phthalate	14.598	149	951473	64.953	ng	99
87) Indeno(1,2,3-cd)pyrene	16.909	276	1054987	61.732	ng	99
88) Benzo(b)fluoranthene	15.033	252	971433	56.615	ng	99
89) Benzo(k)fluoranthene	15.062	252	845842	55.934	ng	100
90) Benzo(a)pyrene	15.392	252	838283	58.588	ng	99
91) Dibenzo(a,h)anthracene	16.927	278	854214	62.119	ng	98
92) Benzo(g,h,i)perylene	17.351	276	881804	61.510	ng	100

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

ICAL Form

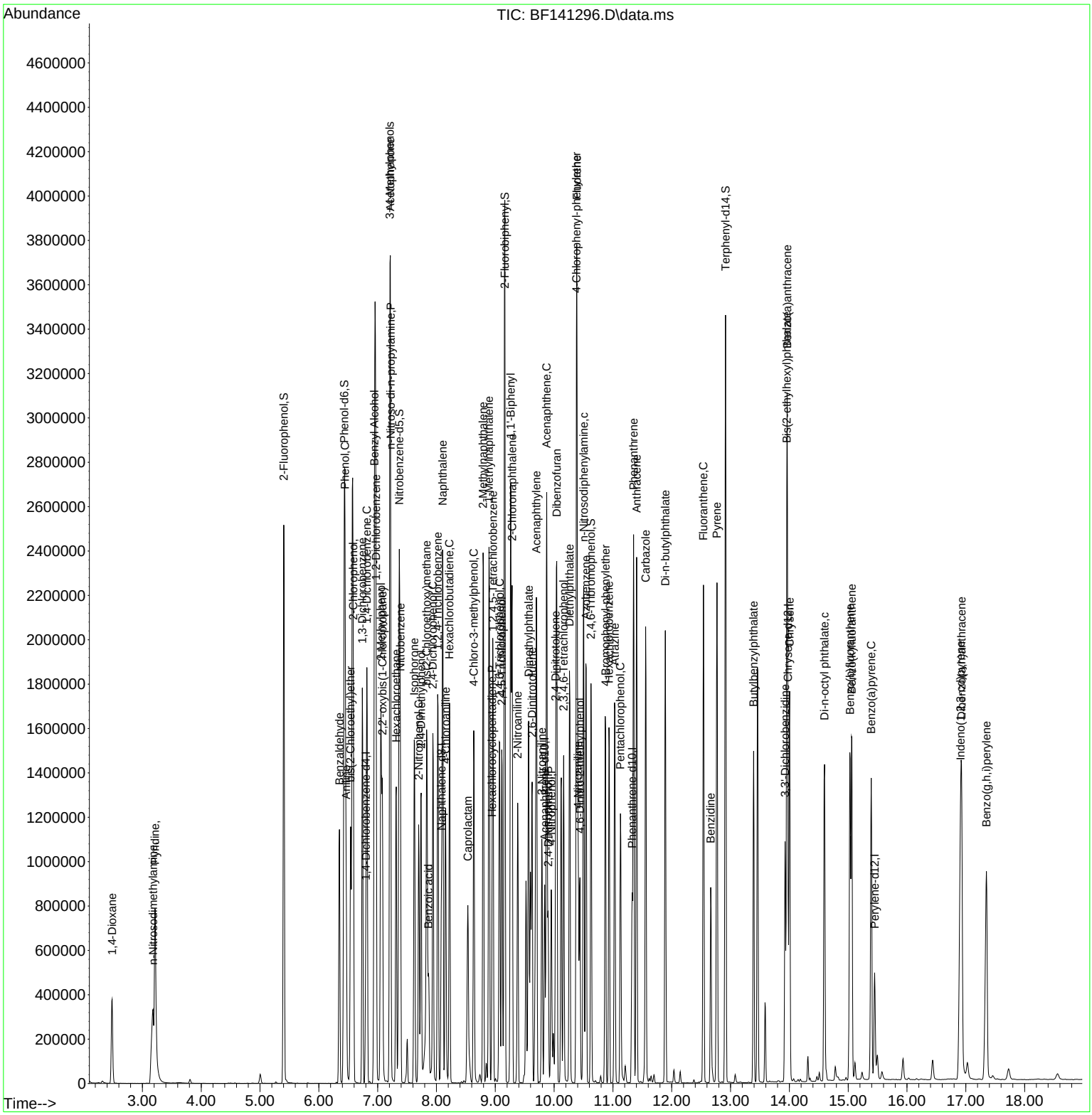
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141296.D
Acq On : 29 Jan 2025 16:38
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

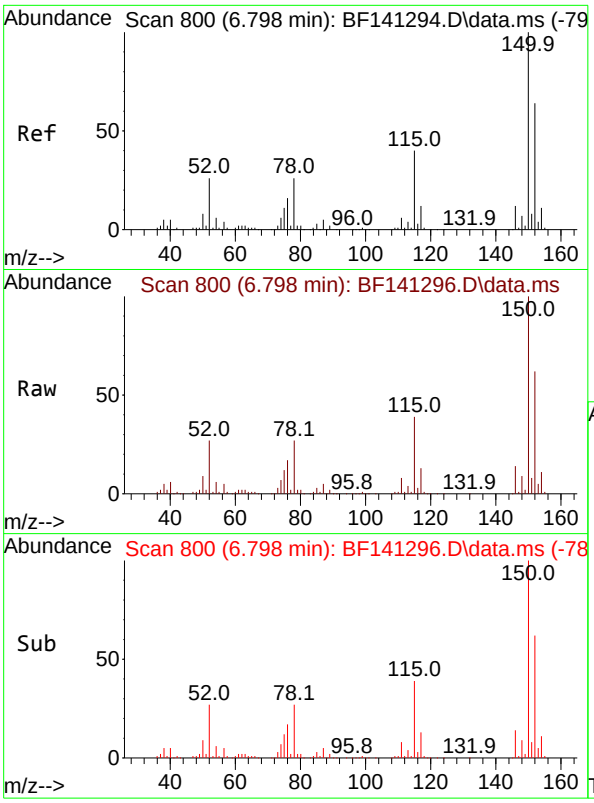
Quant Time: Jan 29 17:20:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:14:44 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

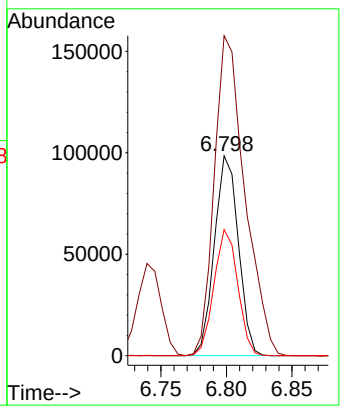




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:152 Resp: 12520

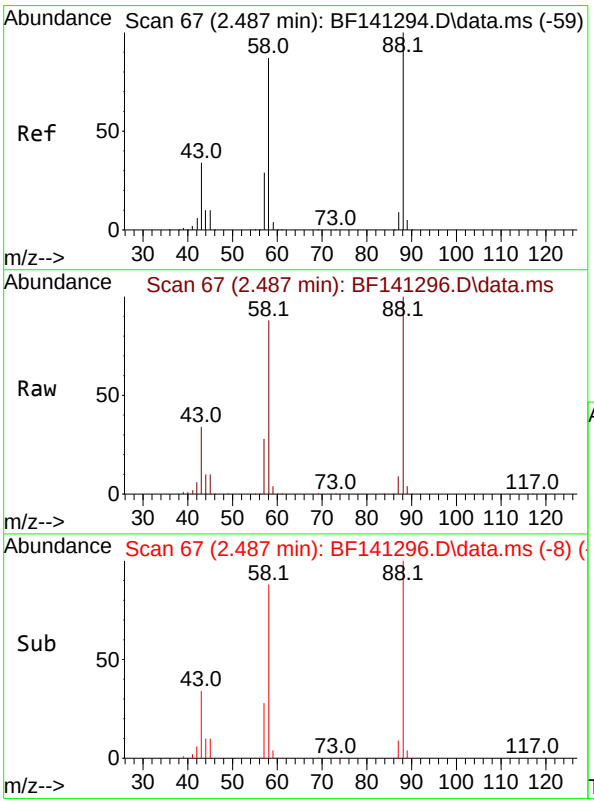
Ion	Ratio	Lower	Upper
152	100		
150	160.2	125.9	188.9
115	63.2	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

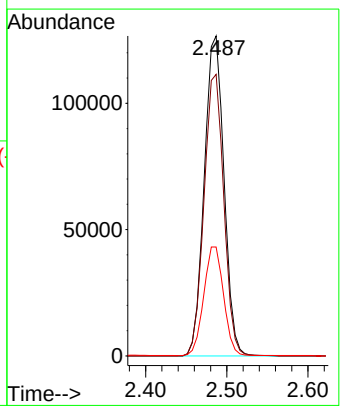
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

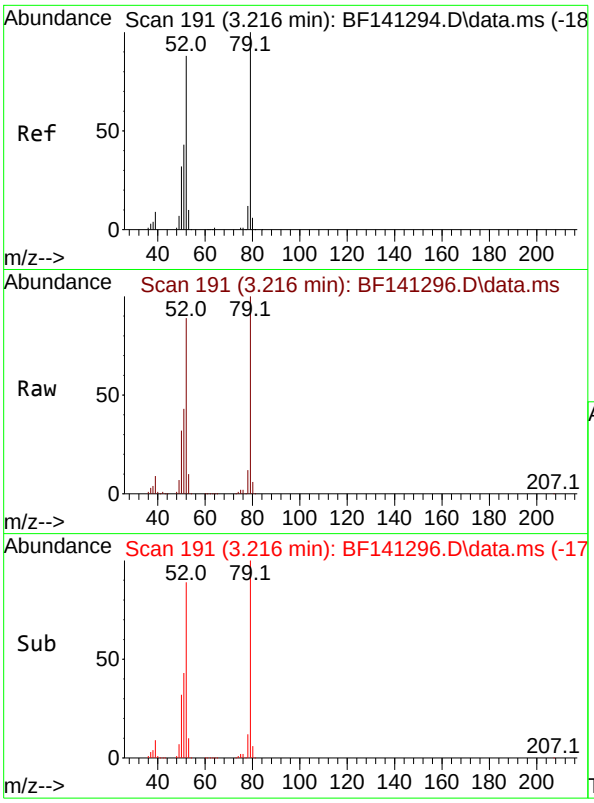


#2
1,4-Dioxane
Concen: 58.657 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 88 Resp: 213805

Ion	Ratio	Lower	Upper
88	100		
58	88.5	70.2	105.4
43	34.0	27.6	41.4

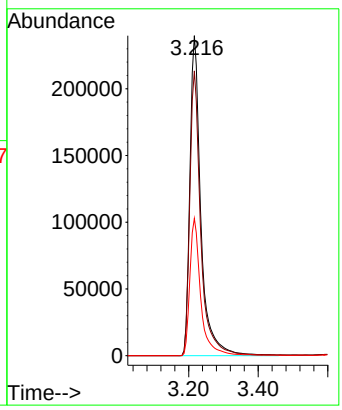




#3
Pyridine
Concen: 60.698 ng
RT: 3.216 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 79 Resp: 52720

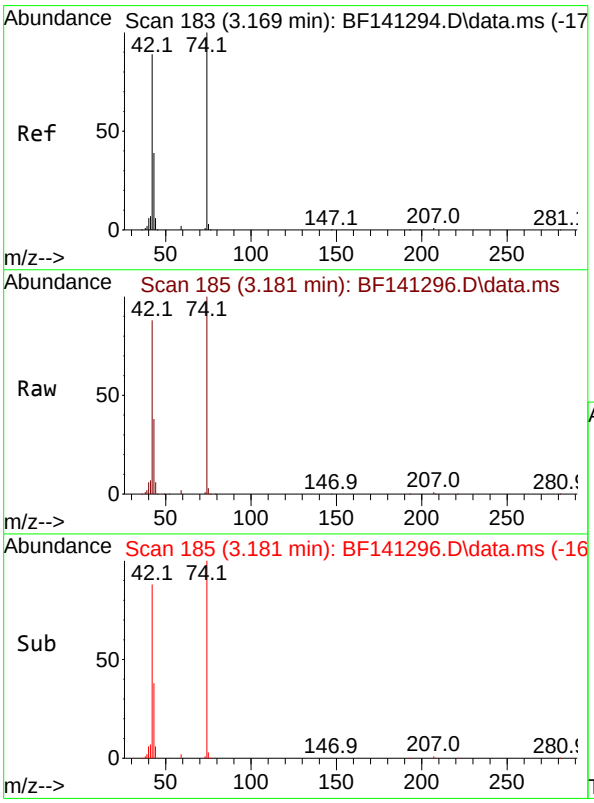
Ion	Ratio	Lower	Upper
79	100		
52	89.0	70.3	105.5
51	42.9	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

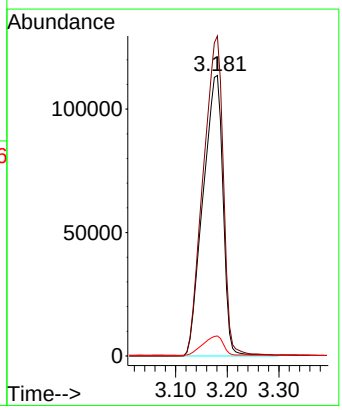
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

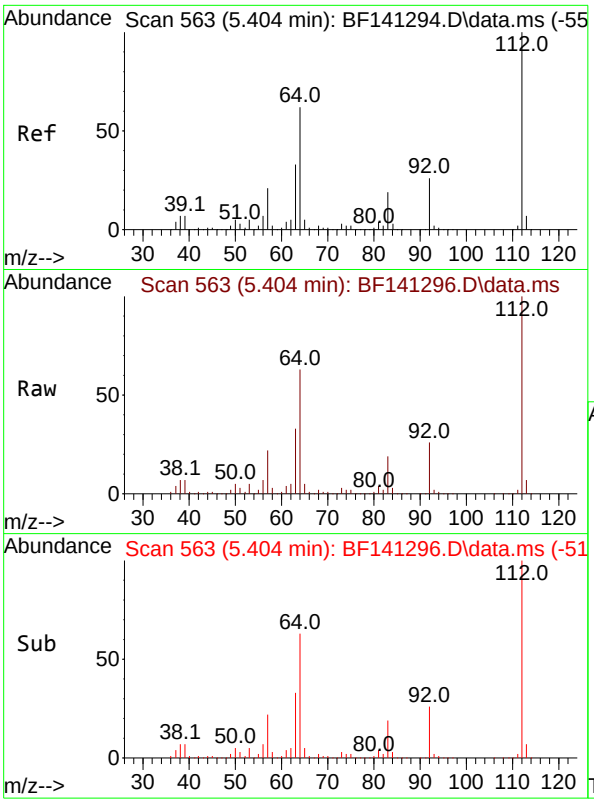


#4
n-Nitrosodimethylamine
Concen: 61.956 ng
RT: 3.181 min Scan# 185
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 42 Resp: 305314

Ion	Ratio	Lower	Upper
42	100		
74	114.1	90.3	135.5
44	7.2	5.7	8.5

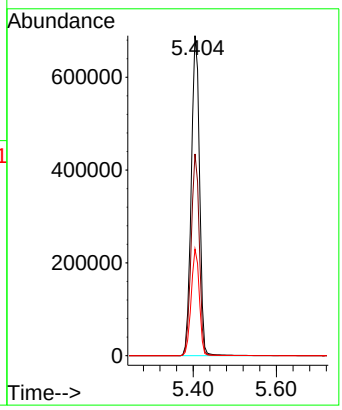




#5
2-Fluorophenol
Concen: 113.729 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:112 Resp: 95239

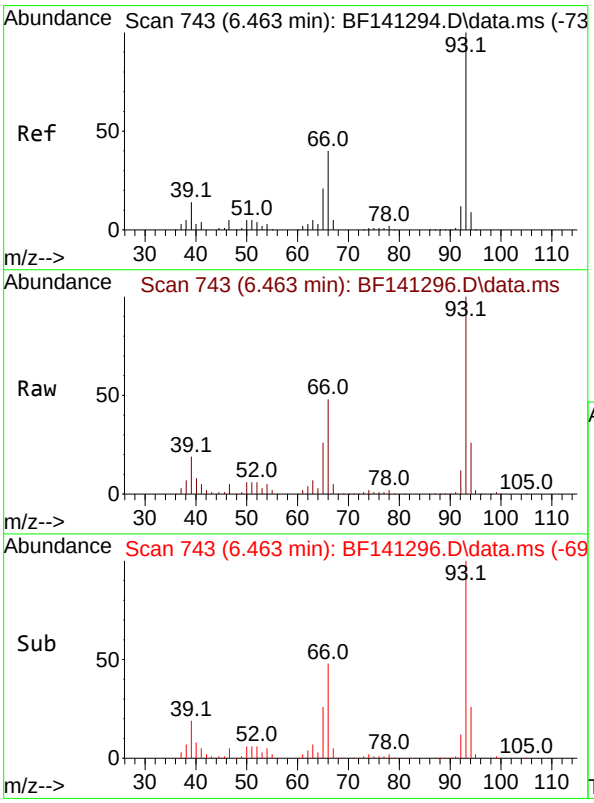
Ion	Ratio	Lower	Upper
112	100		
64	63.0	49.8	74.8
63	33.3	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

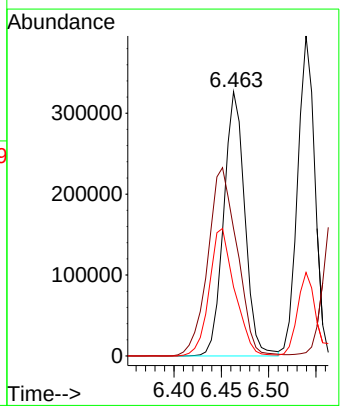
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

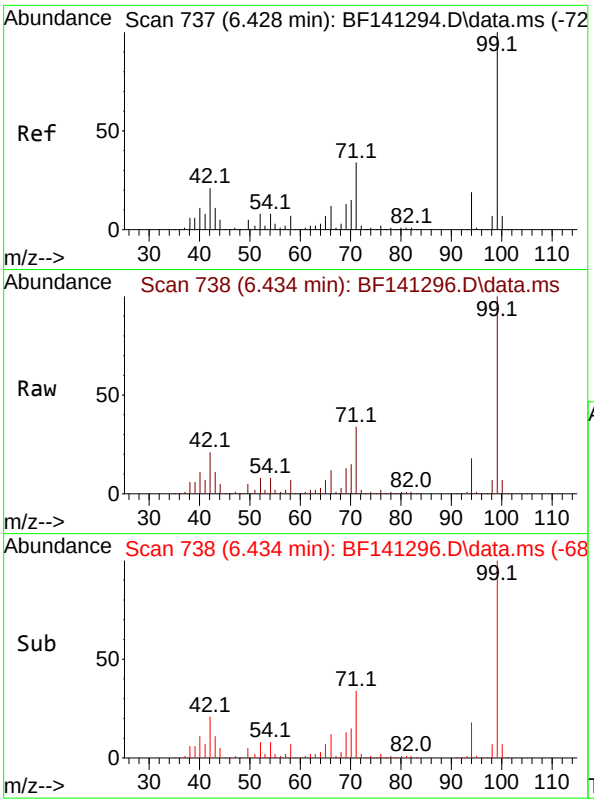


#6
Aniline
Concen: 55.493 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 93 Resp: 506937

Ion	Ratio	Lower	Upper
93	100		
66	48.2	32.5	48.7
65	26.1	17.0	25.6#

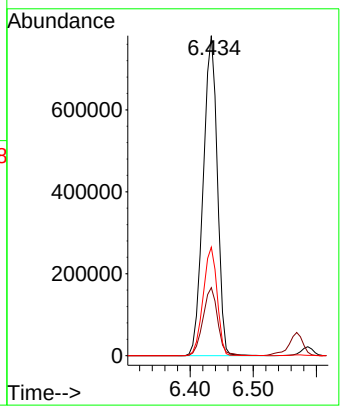




#7
Phenol-d6
Concen: 113.542 ng
RT: 6.434 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 99 Resp: 121047

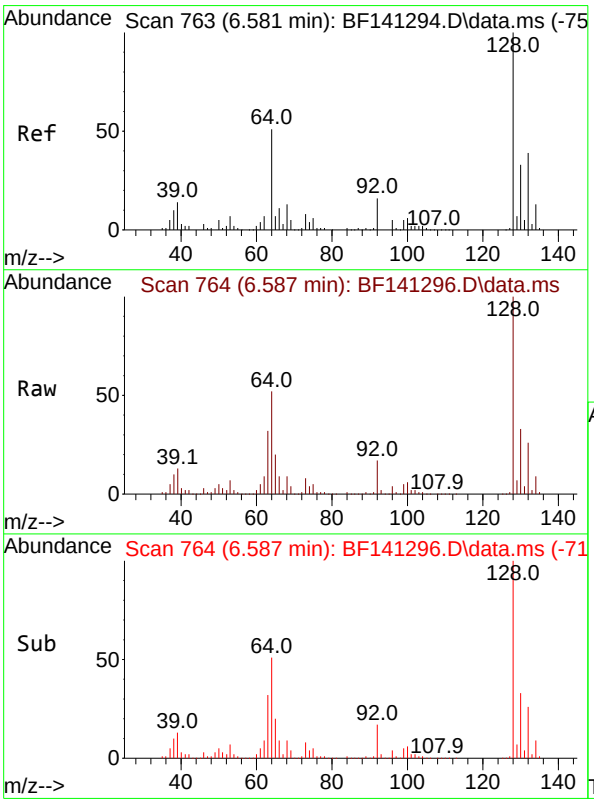
Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.1	25.7
71	33.9	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

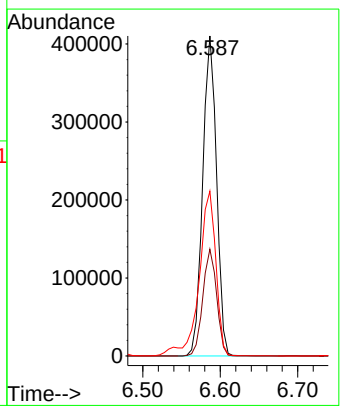
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

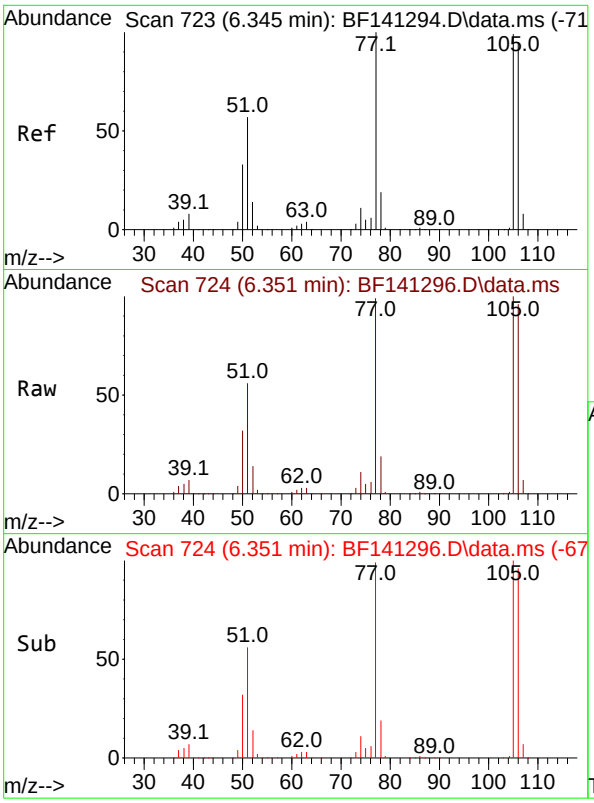


#8
2-Chlorophenol
Concen: 56.606 ng
RT: 6.587 min Scan# 764
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:128 Resp: 509043

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.5	52.5
64	51.5	32.9	72.9

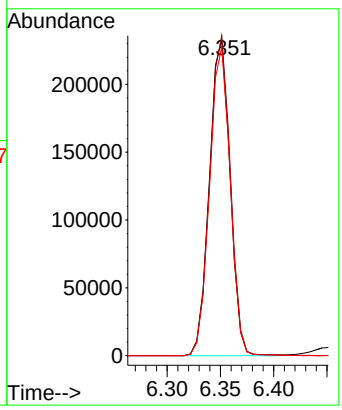




#9
Benzaldehyde
Concen: 48.677 ng
RT: 6.351 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 77 Resp: 31423

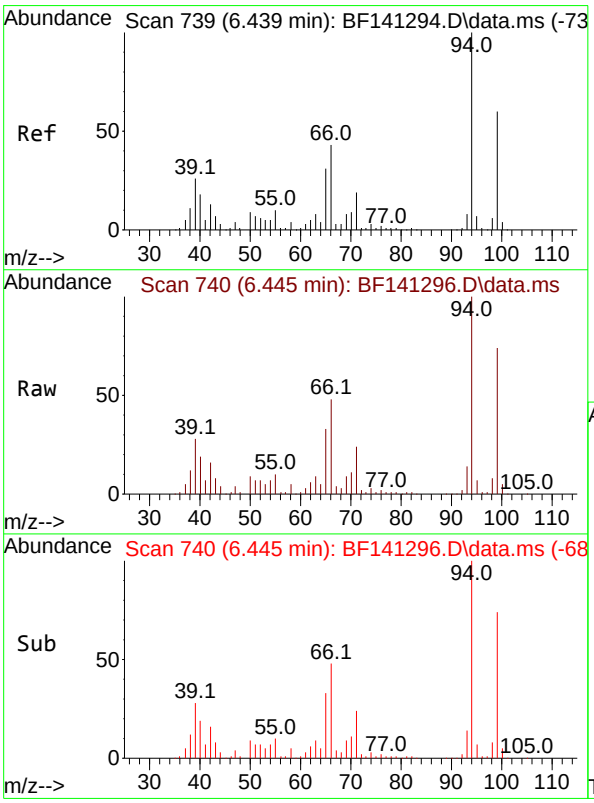
Ion	Ratio	Lower	Upper
77	100		
105	101.2	79.4	119.4
106	97.6	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

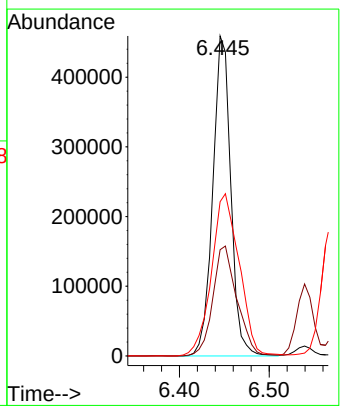
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

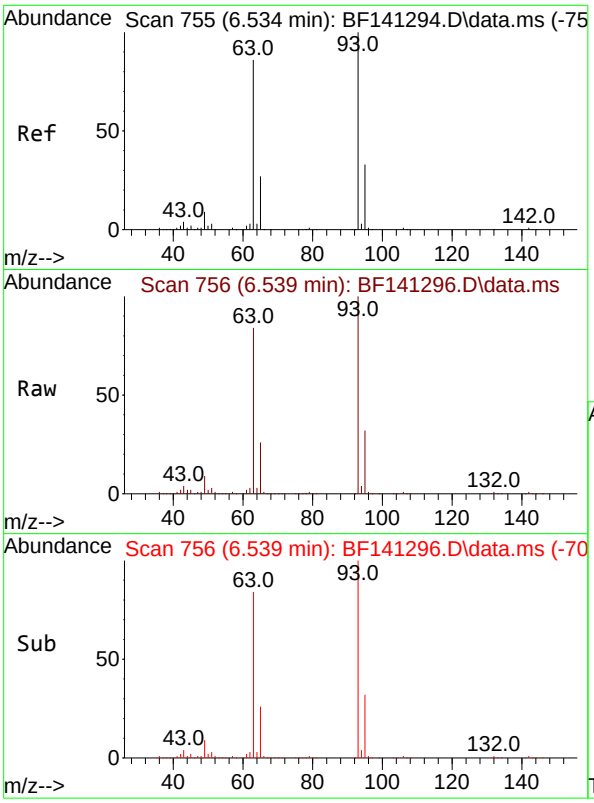


#10
Phenol
Concen: 56.549 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 94 Resp: 640034

Ion	Ratio	Lower	Upper
94	100		
65	33.2	10.8	50.8
66	48.2	23.3	63.3





#11
bis(2-Chloroethyl)ether
Concen: 58.245 ng
RT: 6.539 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

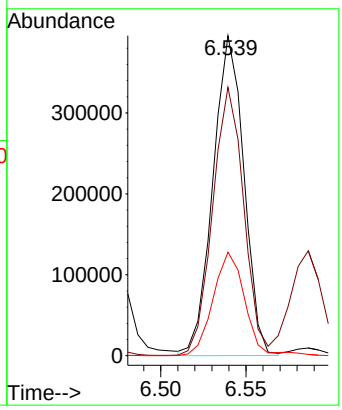
Tgt Ion: 93 Resp: 49932

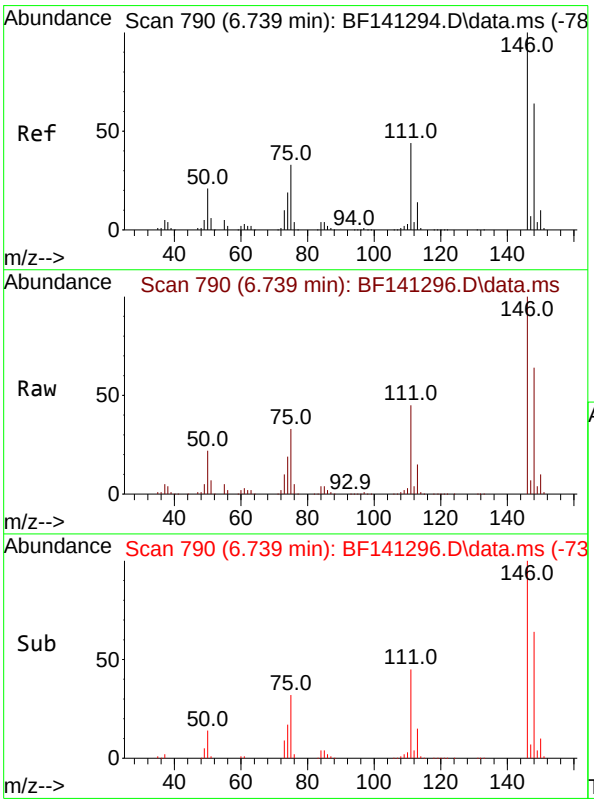
Ion	Ratio	Lower	Upper
93	100		
63	83.9	65.0	105.0
95	32.3	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

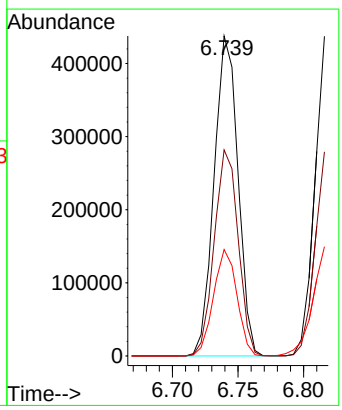


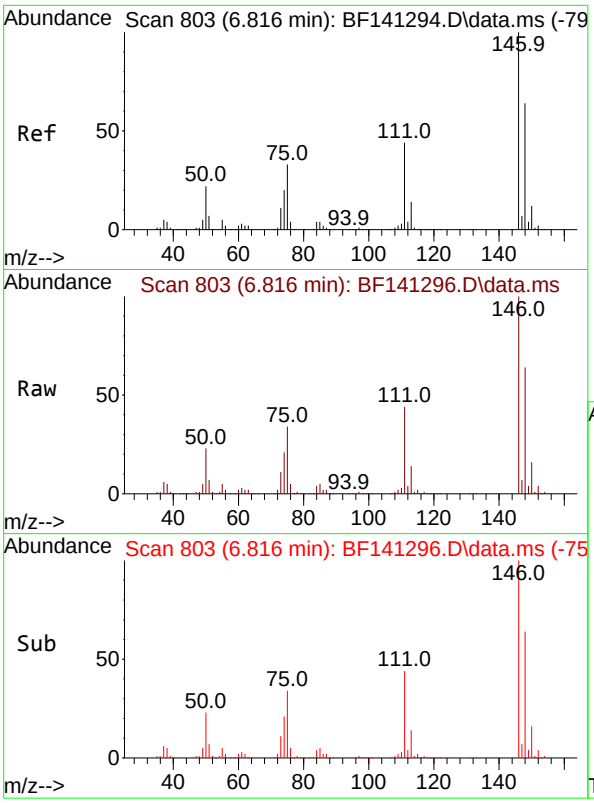


#12
1,3-Dichlorobenzene
Concen: 55.698 ng
RT: 6.739 min Scan# 790
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:146 Resp: 553756

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.2	76.8
75	33.2	26.2	39.4

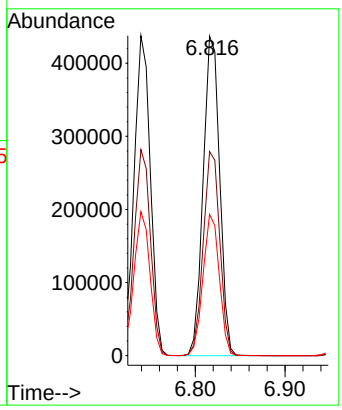




#13
1,4-Dichlorobenzene
Concen: 55.945 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:146 Resp: 55857

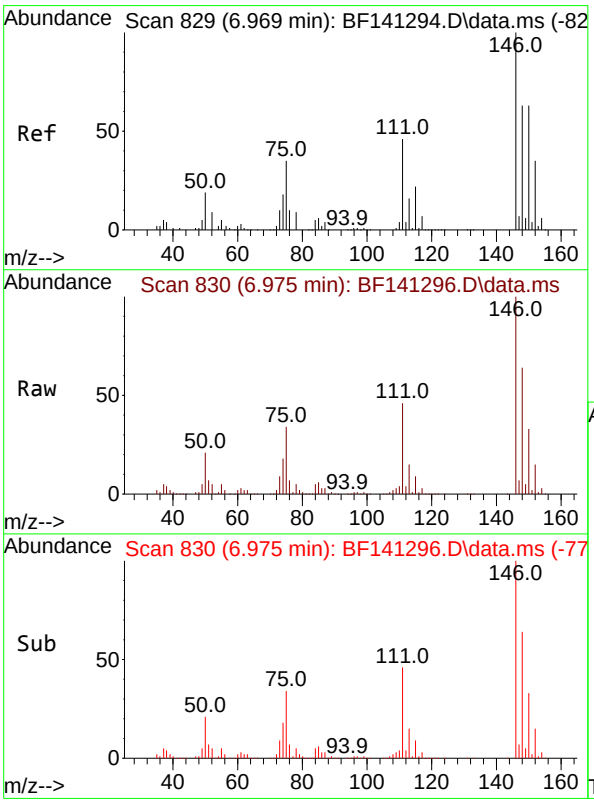
Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
111	44.2	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

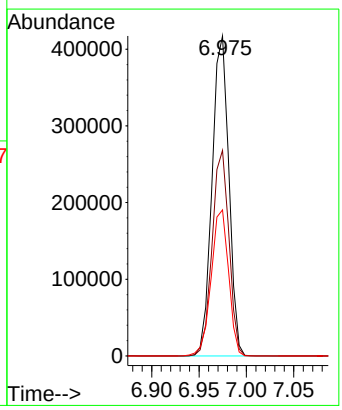
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

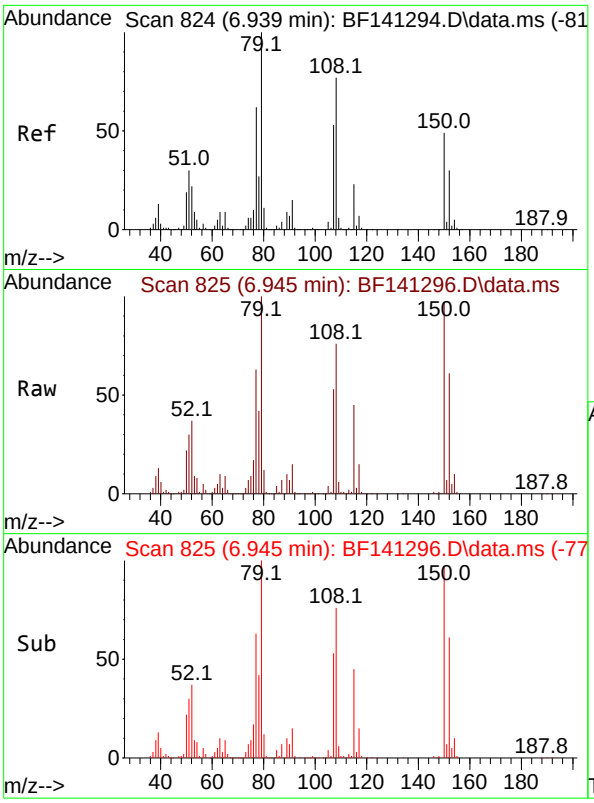


#14
1,2-Dichlorobenzene
Concen: 54.417 ng
RT: 6.975 min Scan# 830
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:146 Resp: 513179

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.5	75.7
111	45.7	36.6	55.0

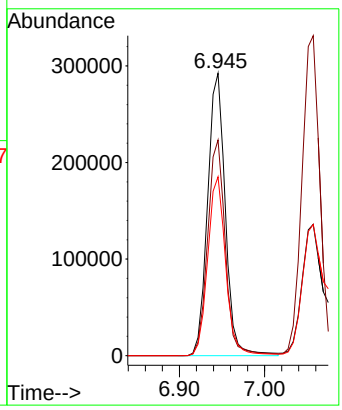




#15
Benzyl Alcohol
Concen: 58.473 ng
RT: 6.945 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 79 Resp: 42272

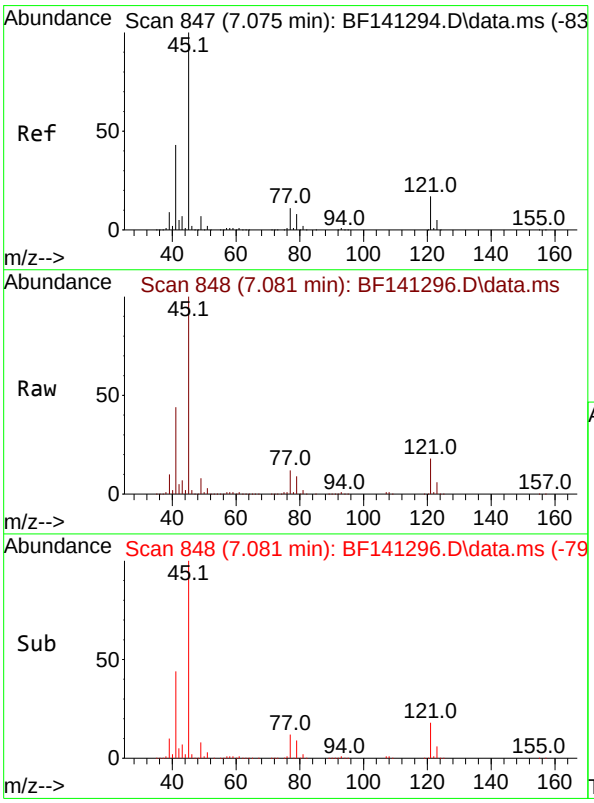
Ion	Ratio	Lower	Upper
79	100		
108	76.4	61.4	92.0
77	63.3	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

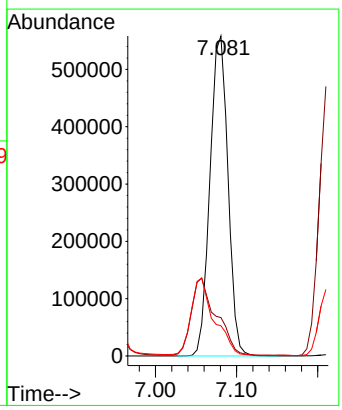
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

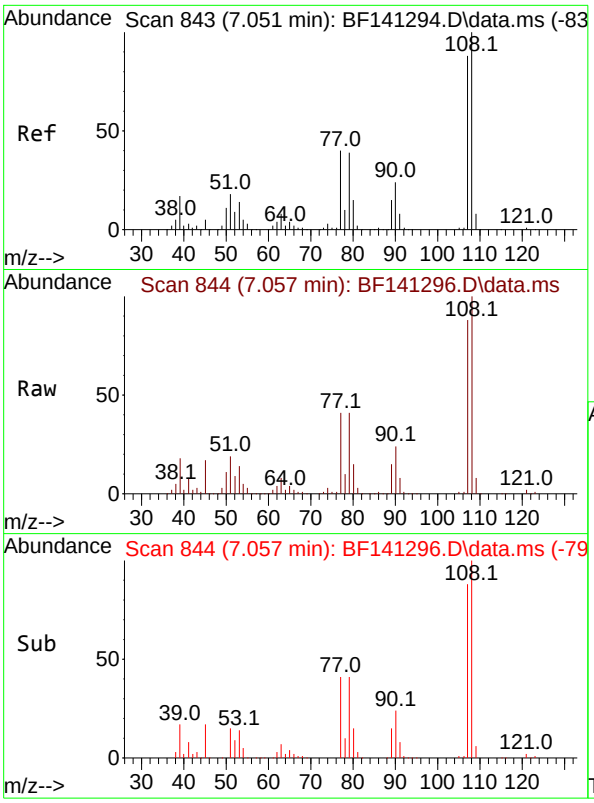


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.194 ng
RT: 7.081 min Scan# 848
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 45 Resp: 859130

Ion	Ratio	Lower	Upper
45	100		
77	12.0	0.0	31.8
79	9.4	0.0	29.1

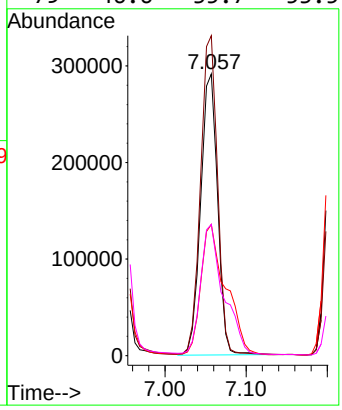




#17
2-Methylphenol
Concen: 58.211 ng
RT: 7.057 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:107 Resp: 42059

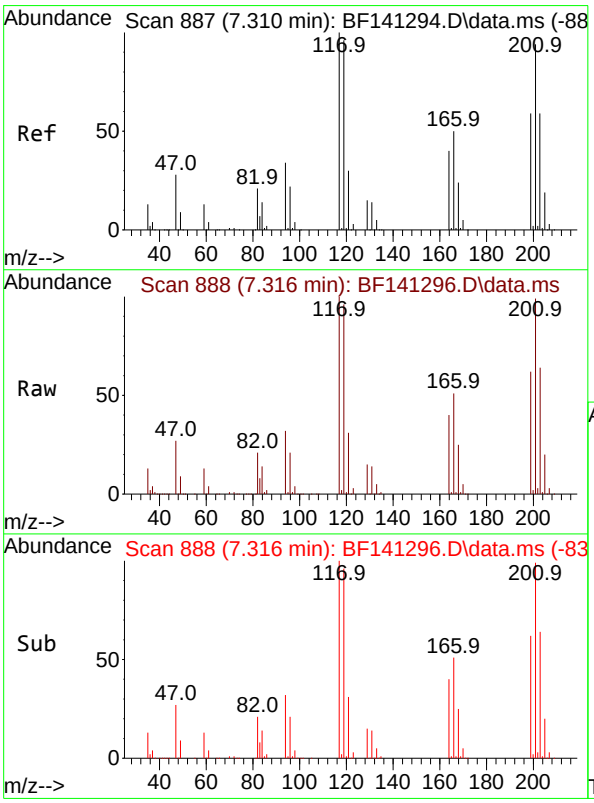
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.8	136.2
77	46.6	36.2	54.4
79	46.6	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

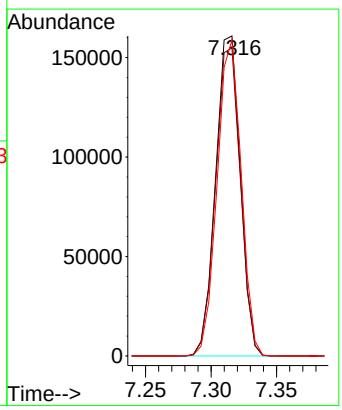
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

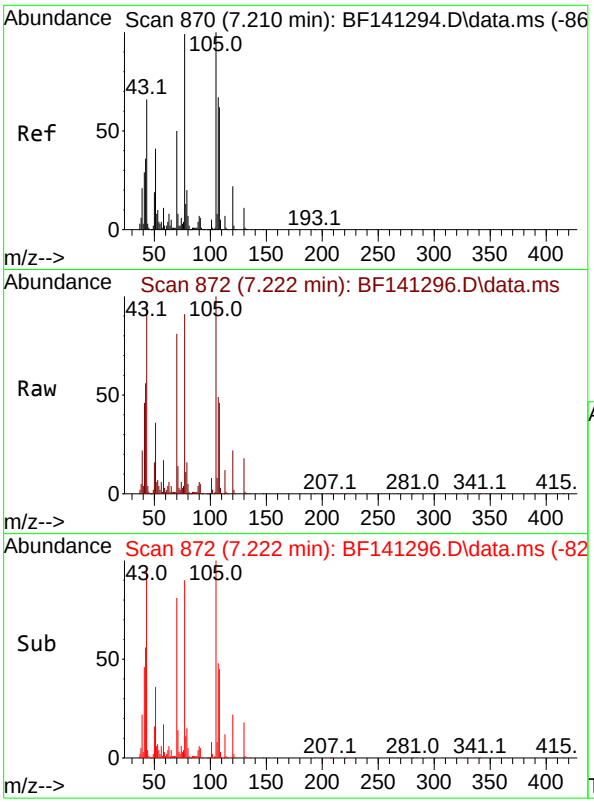


#18
Hexachloroethane
Concen: 57.649 ng
RT: 7.316 min Scan# 888
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:117 Resp: 210746

Ion	Ratio	Lower	Upper
117	100		
119	96.3	76.6	114.8
201	98.8	74.8	112.2

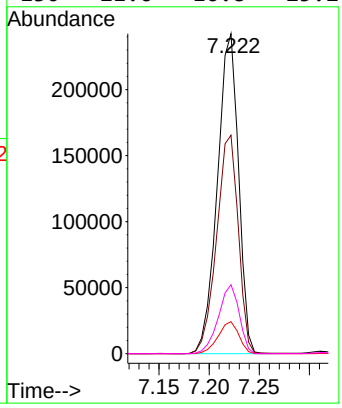




#19
n-Nitroso-di-n-propylamine
Concen: 56.162 ng
RT: 7.222 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 70 Resp: 35503

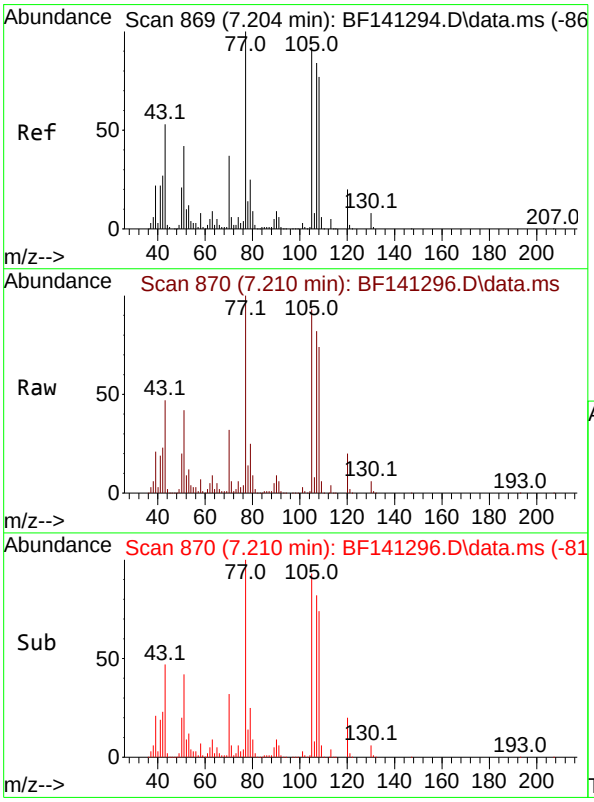
Ion	Ratio	Lower	Upper
70	100		
42	68.3	56.8	85.2
101	10.0	7.7	11.5
130	21.6	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

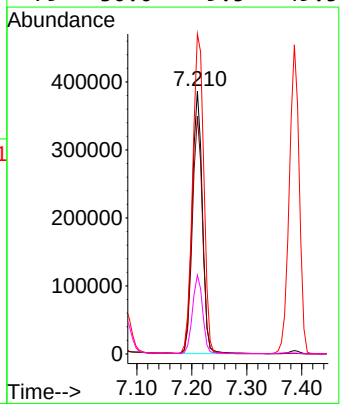
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

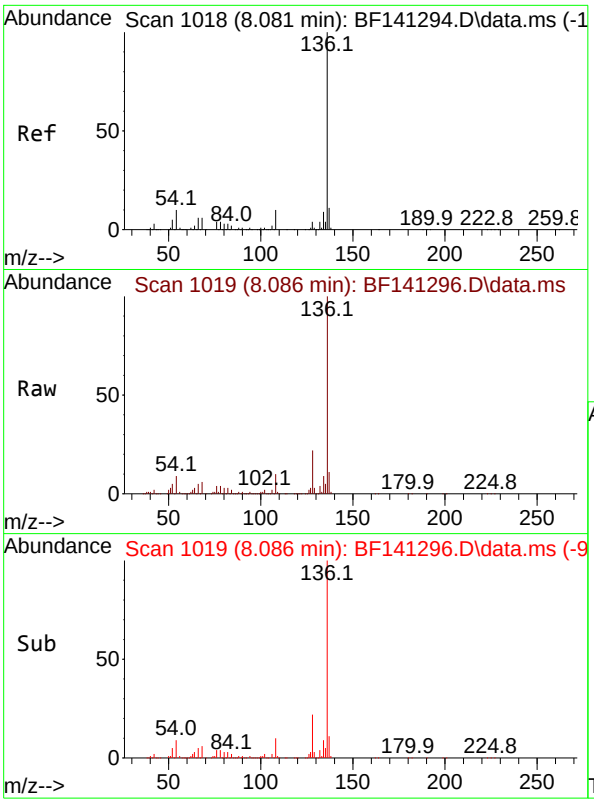


#20
3+4-Methylphenols
Concen: 54.781 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:107 Resp: 496888

Ion	Ratio	Lower	Upper
107	100		
108	90.4	70.9	110.9
77	121.7	98.5	138.5
79	30.0	9.5	49.5

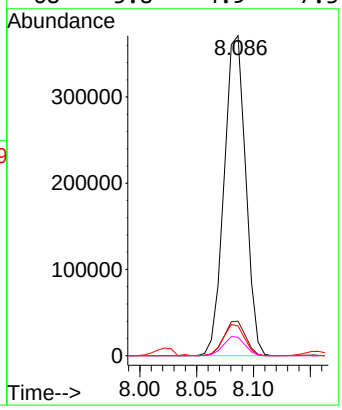




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:136 Resp: 49077

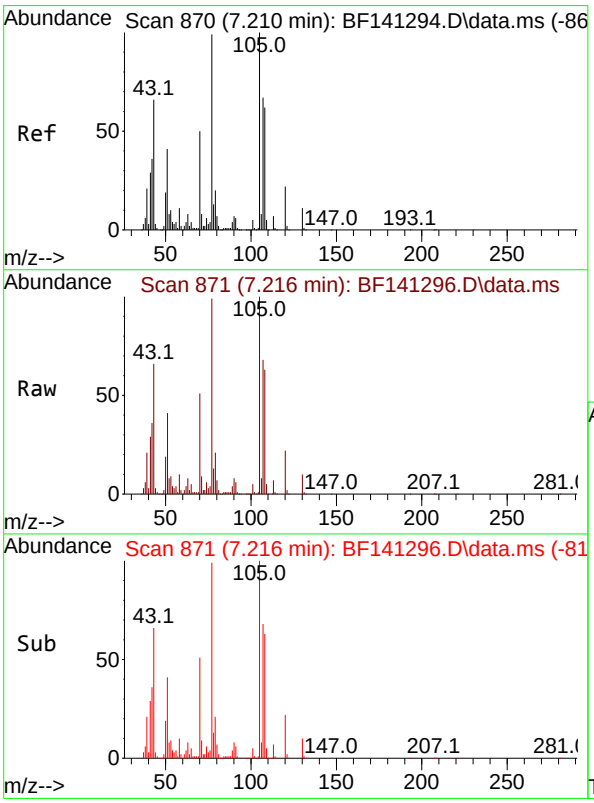
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.3	7.8	11.8
68	5.8	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

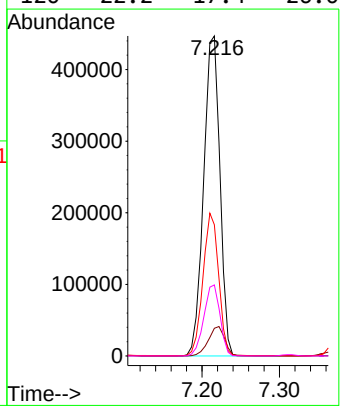
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

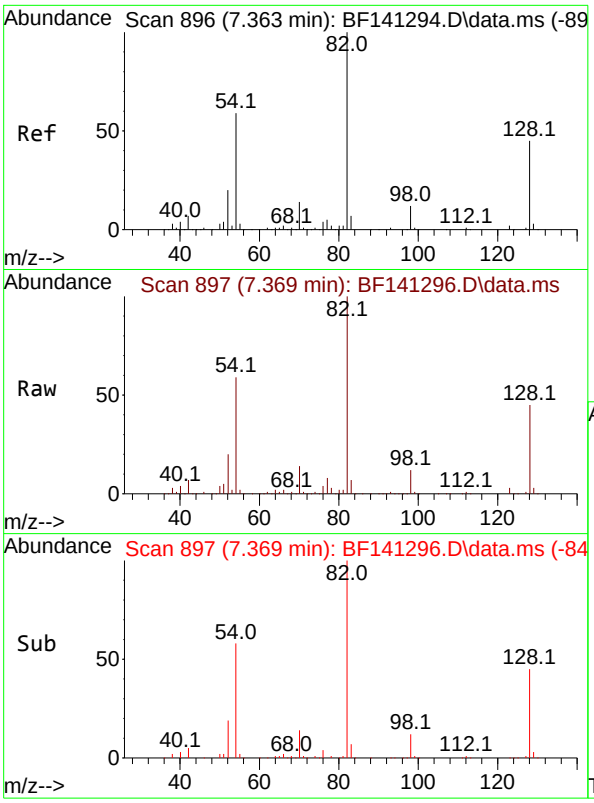


#22
Acetophenone
Concen: 53.679 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:105 Resp: 651575

Ion	Ratio	Lower	Upper
105	100		
71	8.6	6.8	10.2
51	41.0	32.6	49.0
120	22.2	17.4	26.0

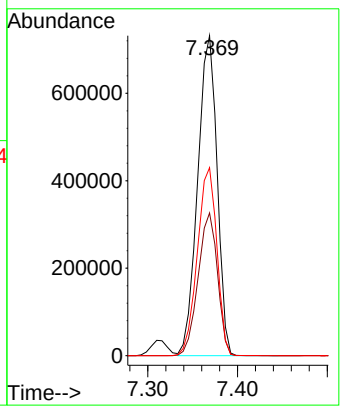




#23
Nitrobenzene-d5
Concen: 115.711 ng
RT: 7.369 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 82 Resp: 109819

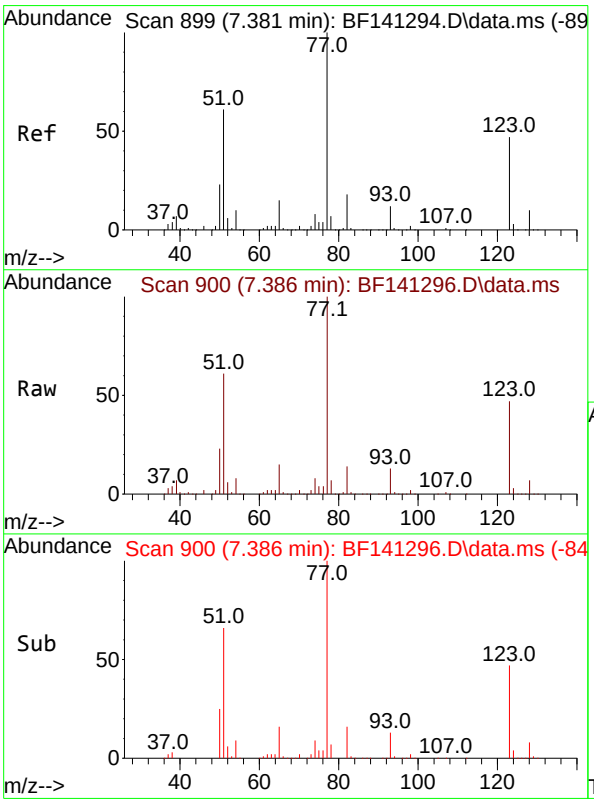
Ion	Ratio	Lower	Upper
82	100		
128	44.6	35.7	53.5
54	58.7	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

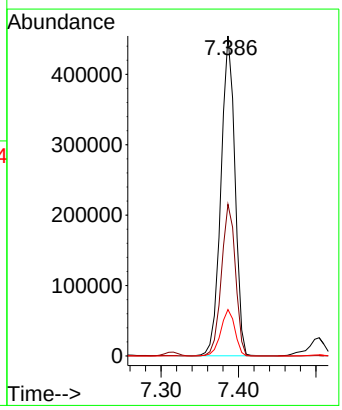
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

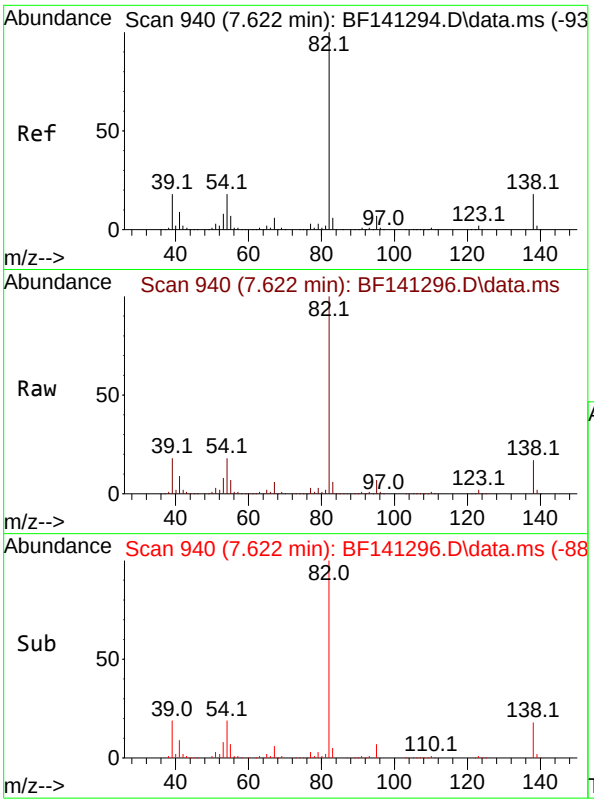


#24
Nitrobenzene
Concen: 58.138 ng
RT: 7.386 min Scan# 900
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 77 Resp: 572234

Ion	Ratio	Lower	Upper
77	100		
123	47.4	37.3	55.9
65	14.5	11.8	17.6

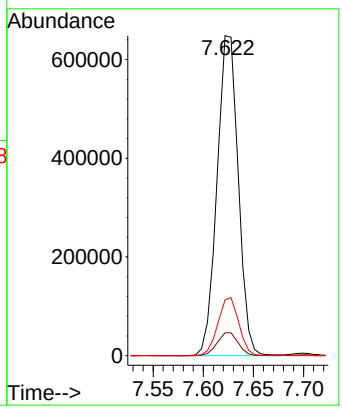




#25
Isophorone
Concen: 58.383 ng
RT: 7.622 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 82 Resp: 95367

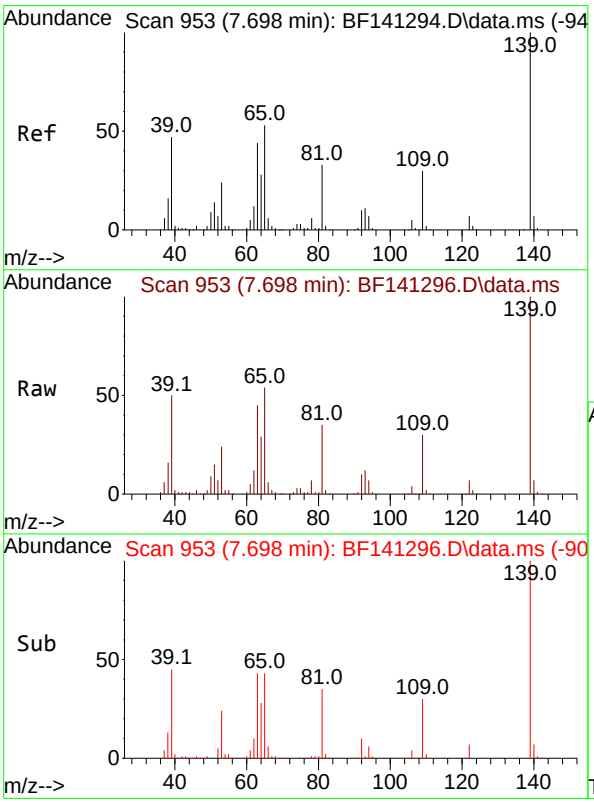
Ion	Ratio	Lower	Upper
82	100		
95	7.2	5.8	8.6
138	17.5	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

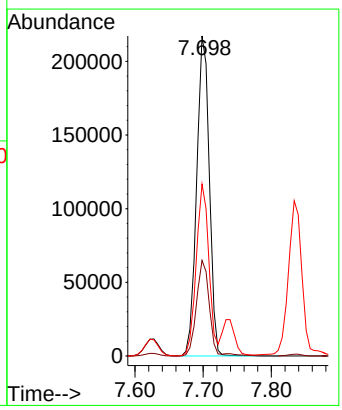
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

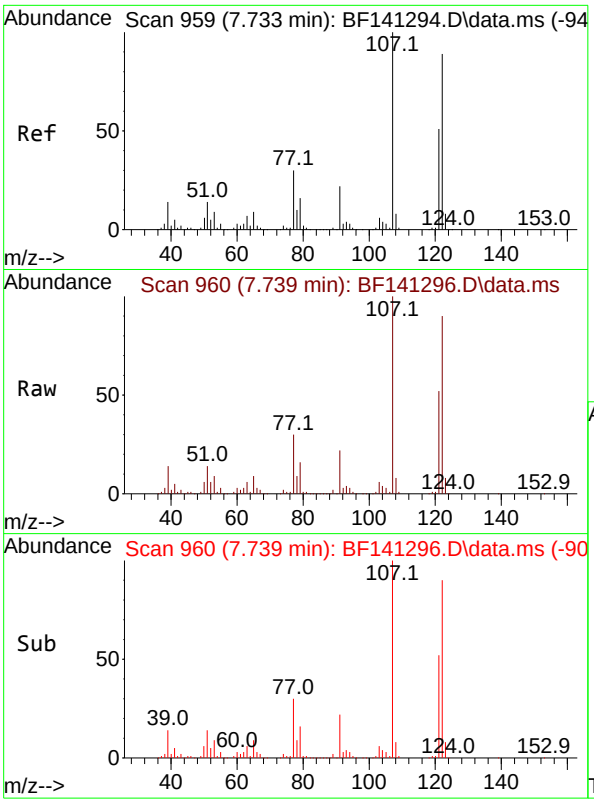


#26
2-Nitrophenol
Concen: 61.652 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:139 Resp: 280785

Ion	Ratio	Lower	Upper
139	100		
109	29.9	23.8	35.6
65	53.7	42.2	63.4

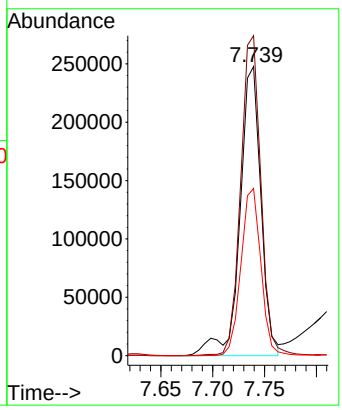




#27
2,4-Dimethylphenol
Concen: 60.006 ng m
RT: 7.739 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:122 Resp: 35078

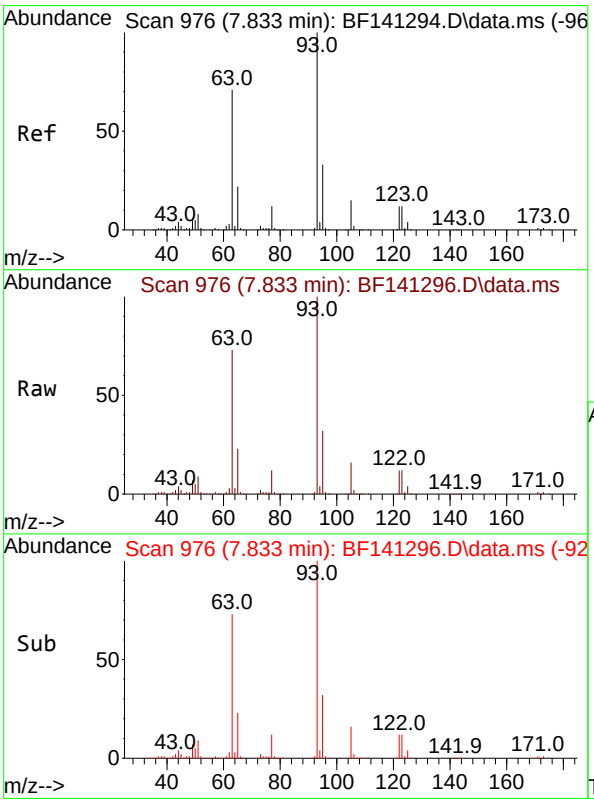
Ion	Ratio	Lower	Upper
122	100		
107	110.7	89.9	134.9
121	57.8	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

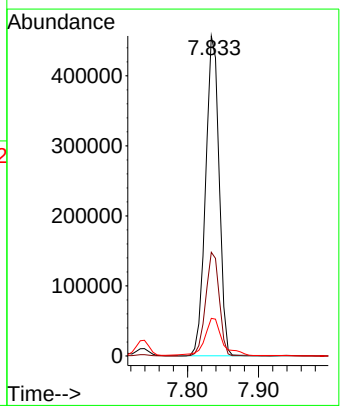
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

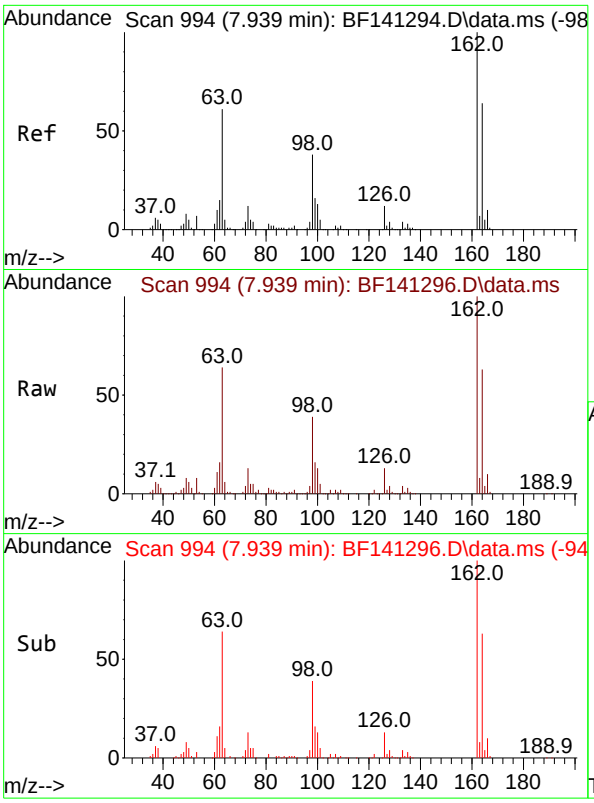


#28
bis(2-Chloroethoxy)methane
Concen: 57.853 ng
RT: 7.833 min Scan# 976
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 93 Resp: 605644

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.2	39.2
123	11.8	10.2	15.4





#29
2,4-Dichlorophenol
Concen: 58.315 ng
RT: 7.939 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

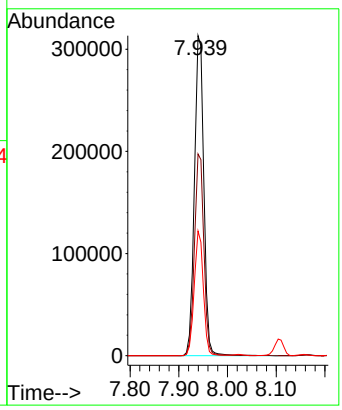
Tgt Ion:162 Resp: 42174

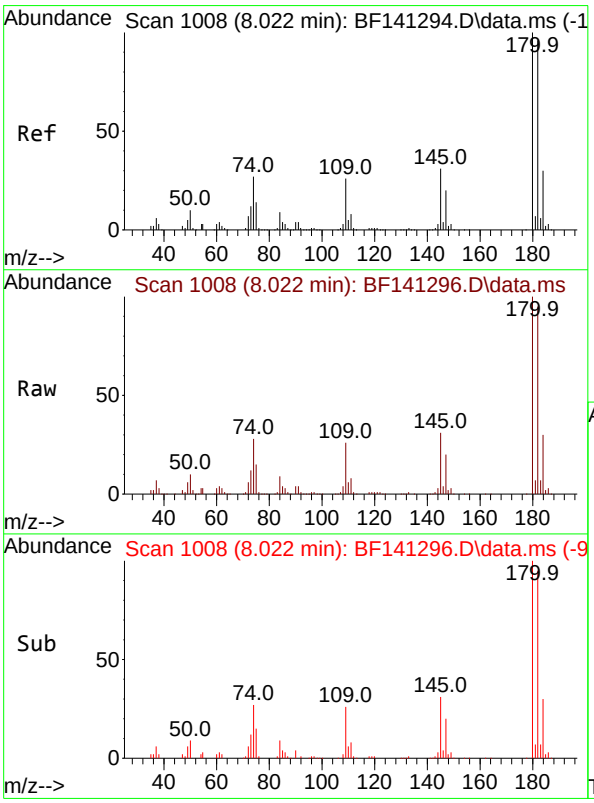
Ion	Ratio	Lower	Upper
162	100		
164	63.0	44.2	84.2
98	38.9	18.2	58.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

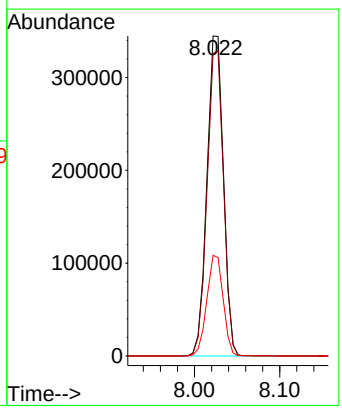


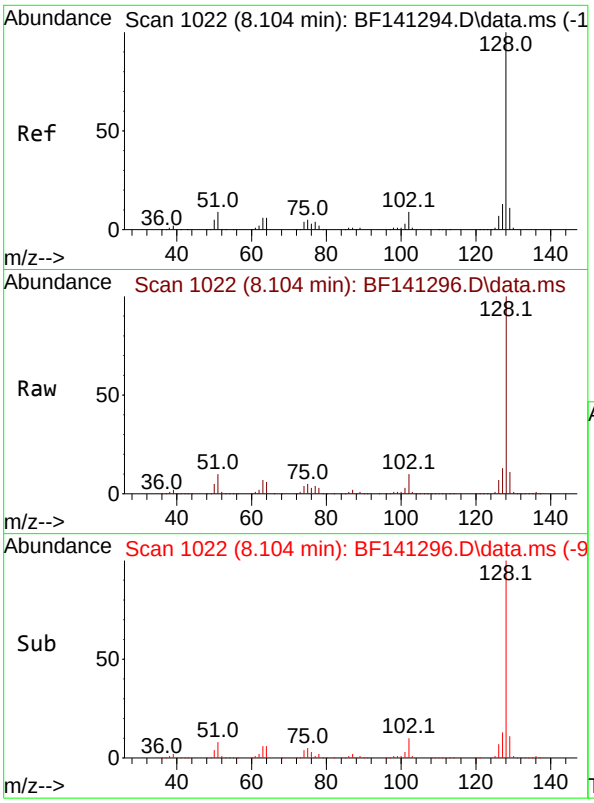


#30
1,2,4-Trichlorobenzene
Concen: 55.787 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:180 Resp: 465841

Ion	Ratio	Lower	Upper
180	100		
182	94.5	76.4	114.6
145	31.4	24.9	37.3





#31
Naphthalene
Concen: 54.933 ng
RT: 8.104 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

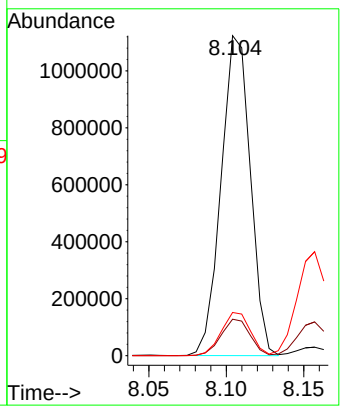
Tgt Ion:128 Resp: 147590(

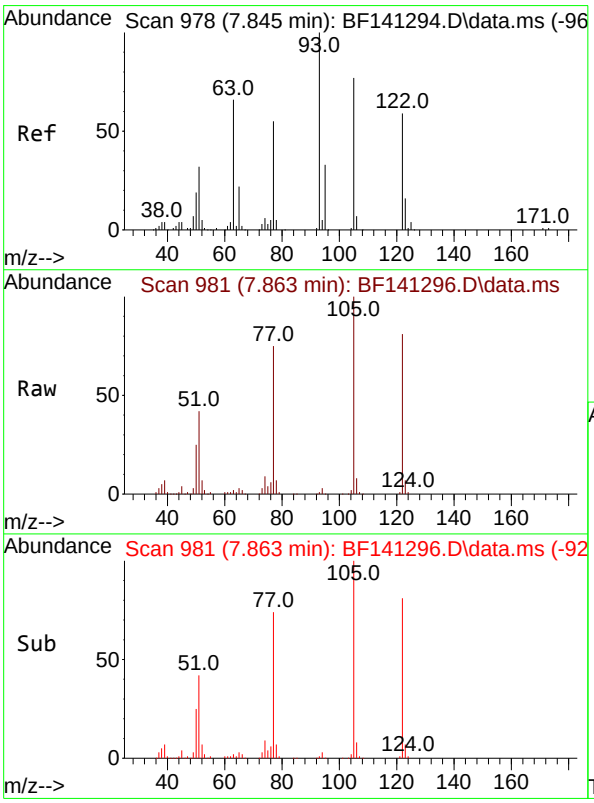
Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.9	13.3
127	13.5	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

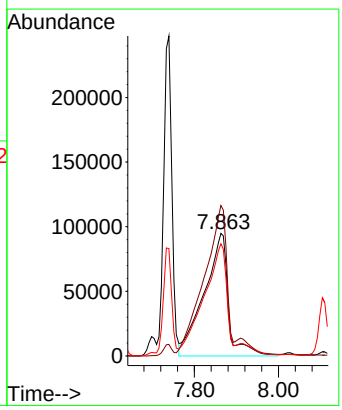


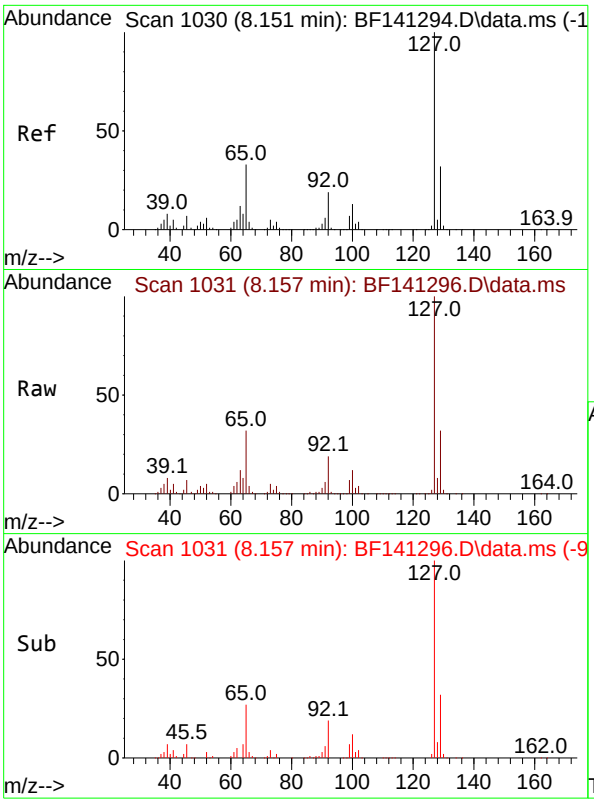


#32
Benzoic acid
Concen: 76.193 ng m
RT: 7.863 min Scan# 981
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:122 Resp: 380664

Ion	Ratio	Lower	Upper
122	100		
105	122.7	103.4	143.4
77	91.6	70.9	110.9

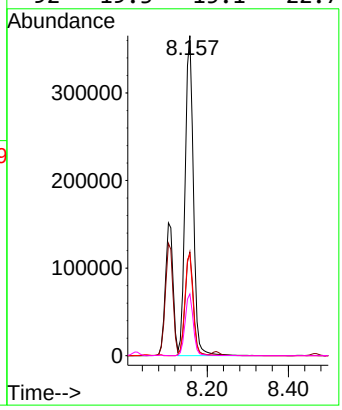




#33
4-Chloroaniline
Concen: 56.786 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:127 Resp: 51314

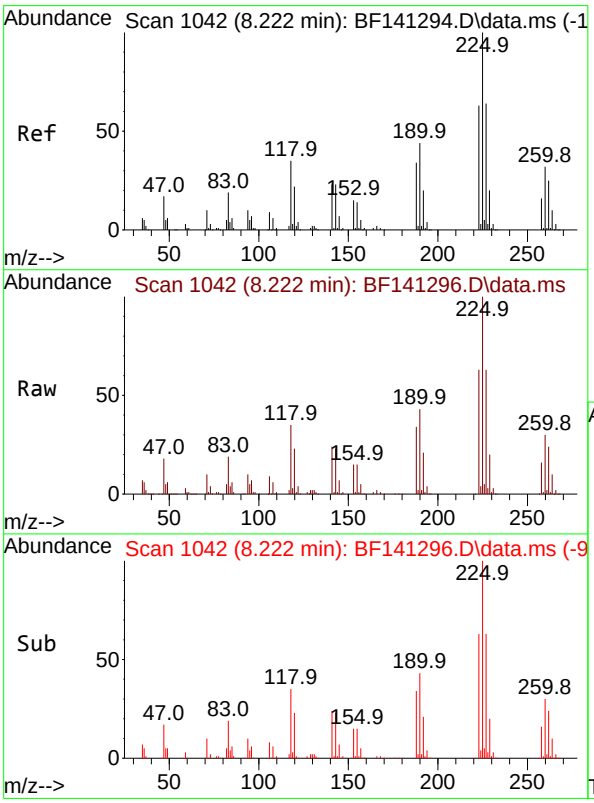
Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.7	38.5
65	31.7	26.4	39.6
92	19.3	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

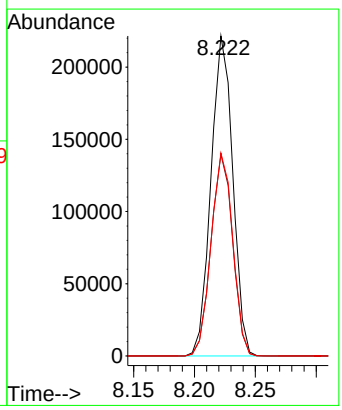
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

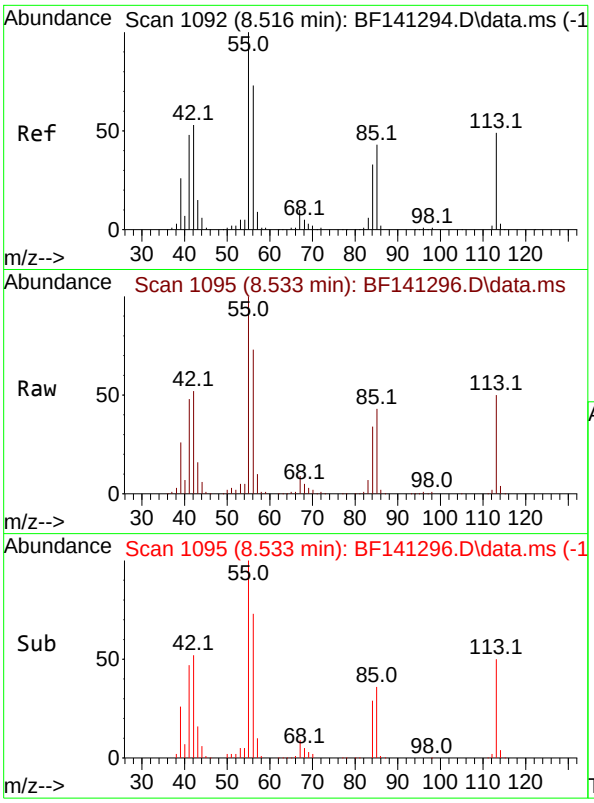


#34
Hexachlorobutadiene
Concen: 56.533 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:225 Resp: 275524

Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6
227	63.4	51.3	76.9

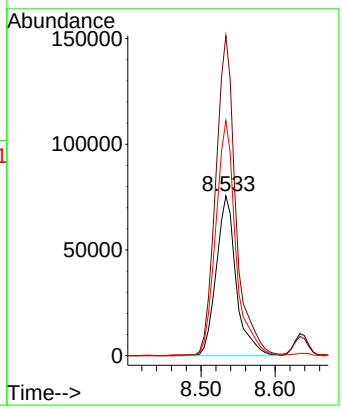




#35
Caprolactam
Concen: 60.337 ng
RT: 8.533 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:113 Resp: 14102

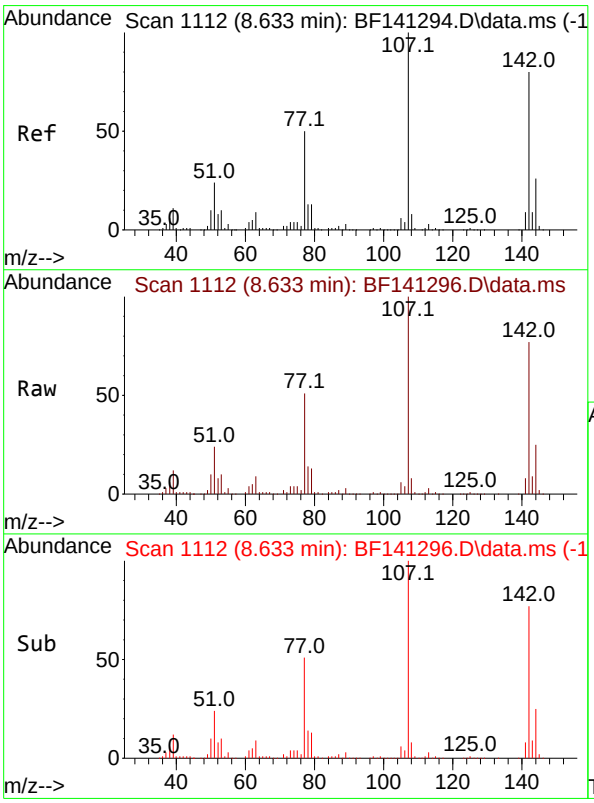
Ion	Ratio	Lower	Upper
113	100		
55	200.2	182.9	222.9
56	147.0	127.9	167.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

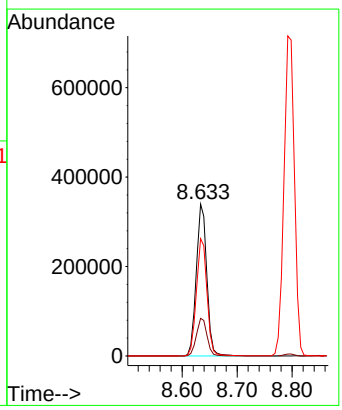
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

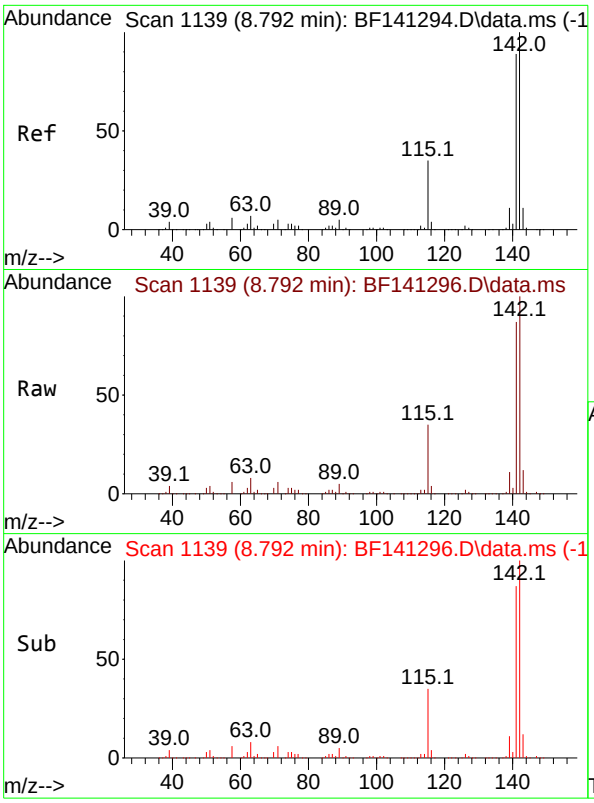


#36
4-Chloro-3-methylphenol
Concen: 58.389 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:107 Resp: 452438

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.7	31.1
142	77.2	63.8	95.8





#37
2-Methylnaphthalene
Concen: 55.126 ng
RT: 8.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

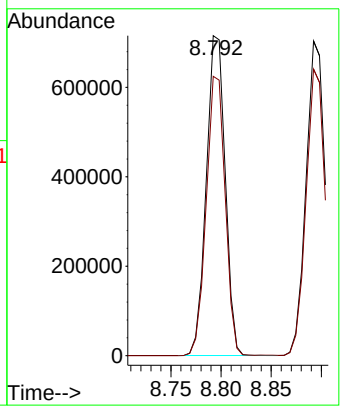
Tgt Ion:142 Resp: 94115

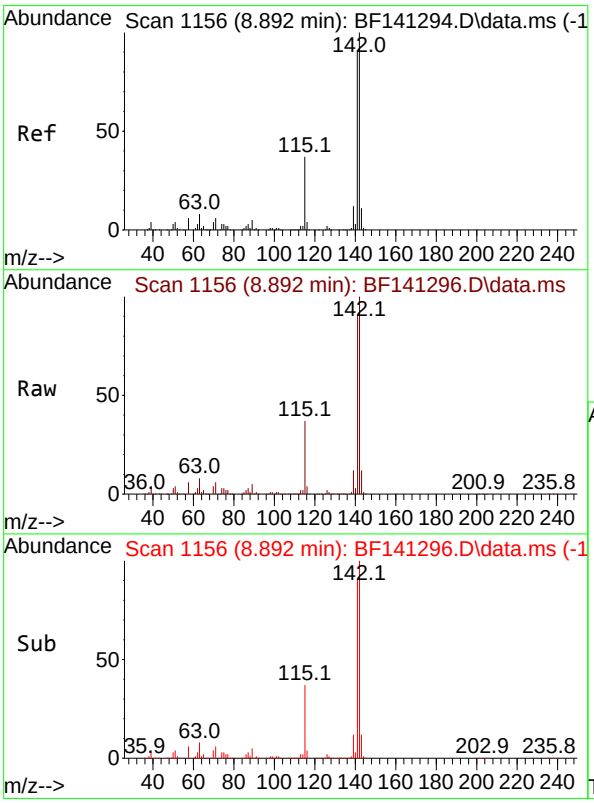
Ion	Ratio	Lower	Upper
142	100		
141	87.3	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

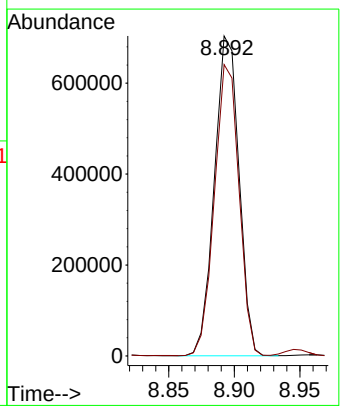


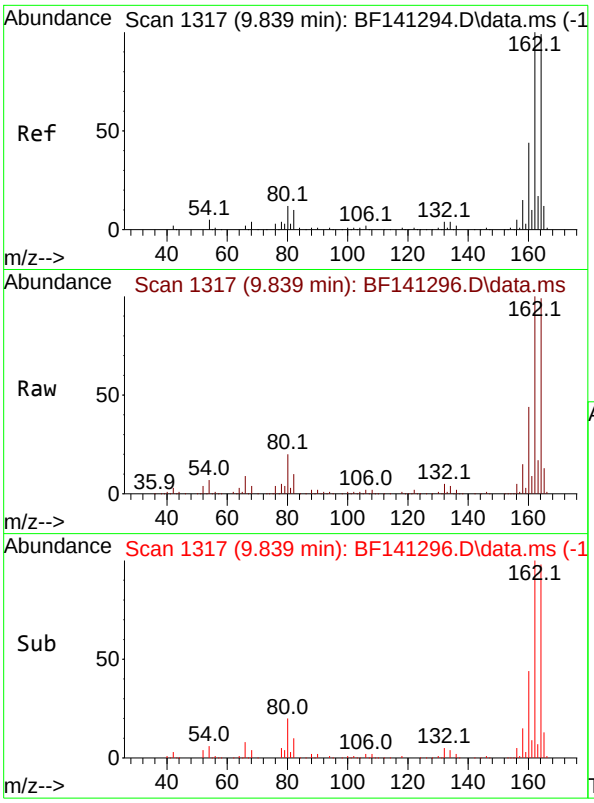


#38
1-Methylnaphthalene
Concen: 54.632 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:142 Resp: 917389

Ion	Ratio	Lower	Upper
142	100		
141	91.1	73.2	109.8

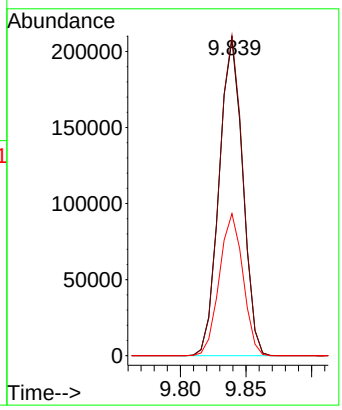




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:164 Resp: 26026

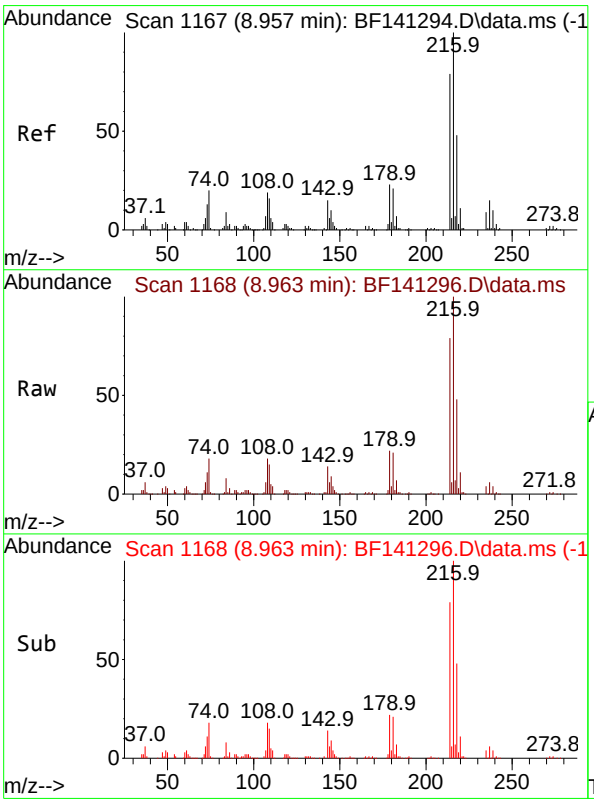
Ion	Ratio	Lower	Upper
164	100		
162	101.4	80.6	121.0
160	45.0	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

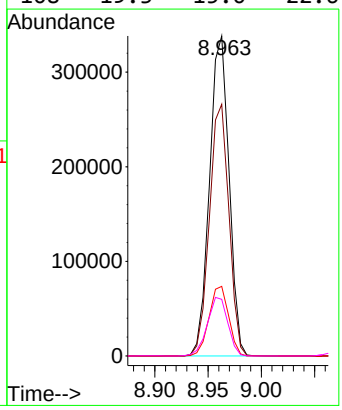
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

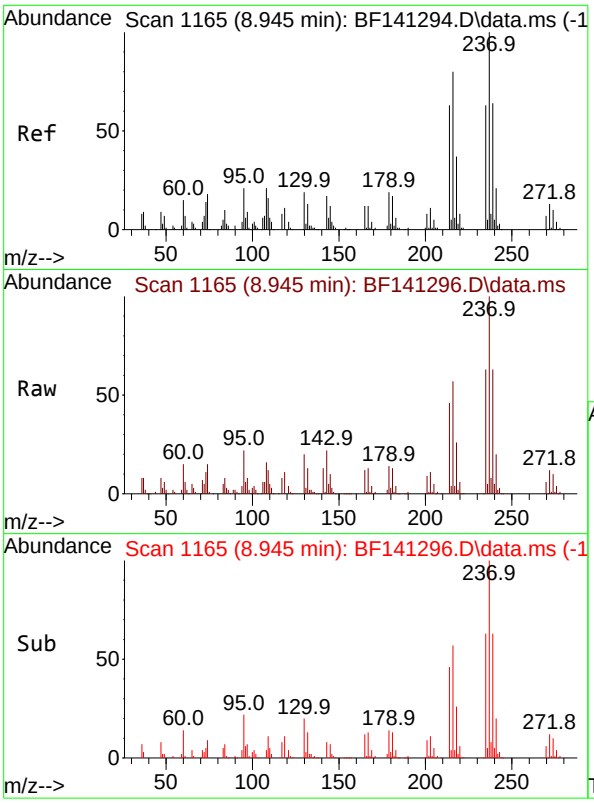


#40
1,2,4,5-Tetrachlorobenzene
Concen: 56.609 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:216 Resp: 430239

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.2	94.8
179	22.0	17.8	26.8
108	19.3	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 66.154 ng
RT: 8.945 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

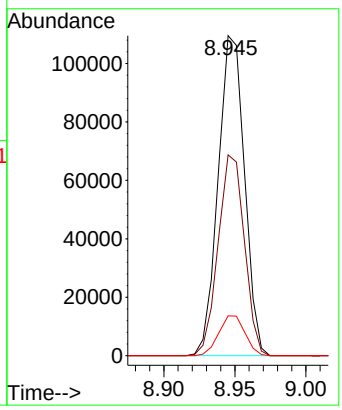
Tgt Ion:237 Resp: 14138

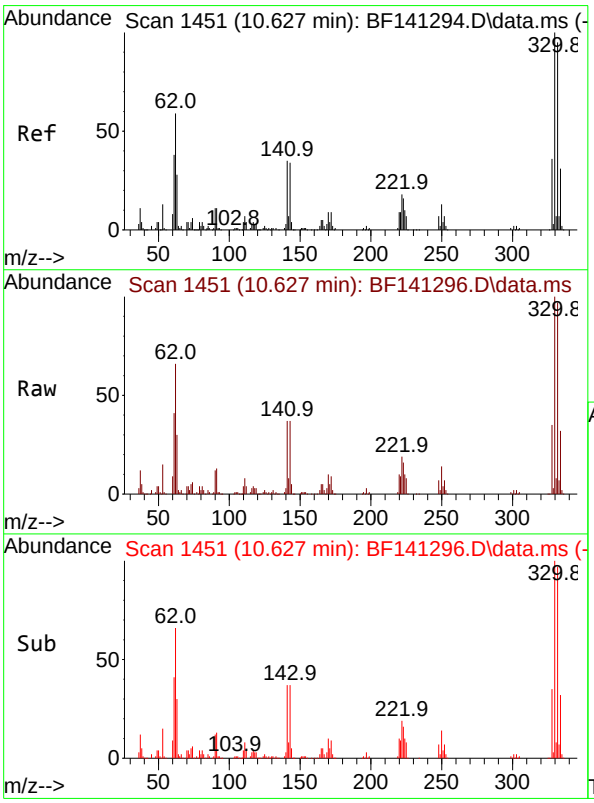
Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.9	82.9
272	12.5	0.0	32.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

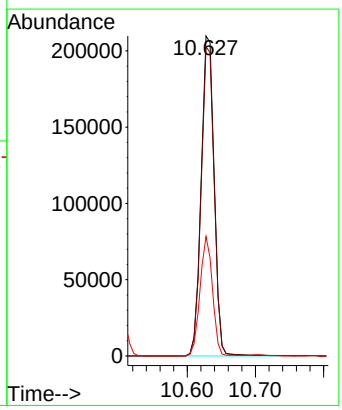


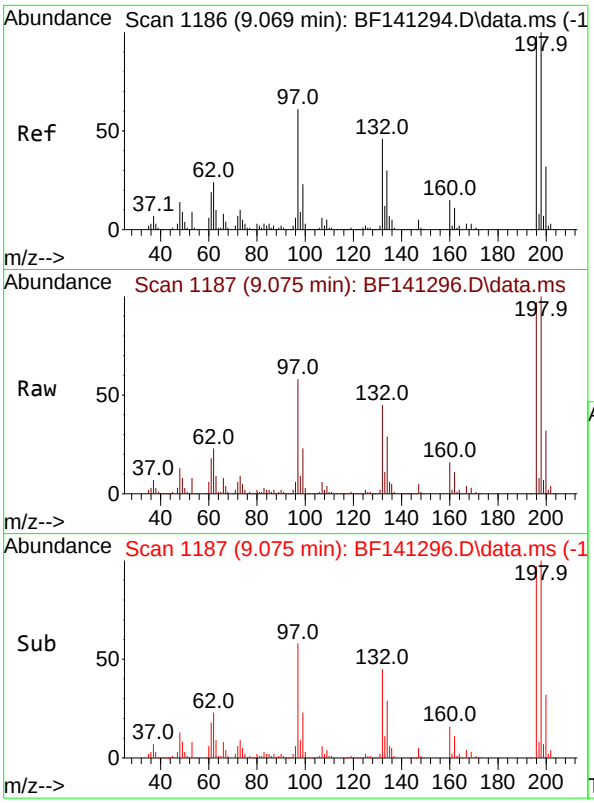


#42
2,4,6-Tribromophenol
Concen: 113.824 ng
RT: 10.627 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:330 Resp: 279105

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.1	114.1
141	35.8	28.8	43.2

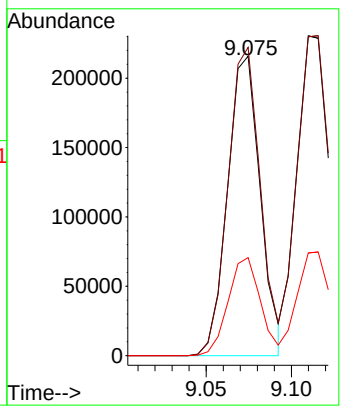




#43
2,4,6-Trichlorophenol
Concen: 58.588 ng
RT: 9.075 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:196 Resp: 28829

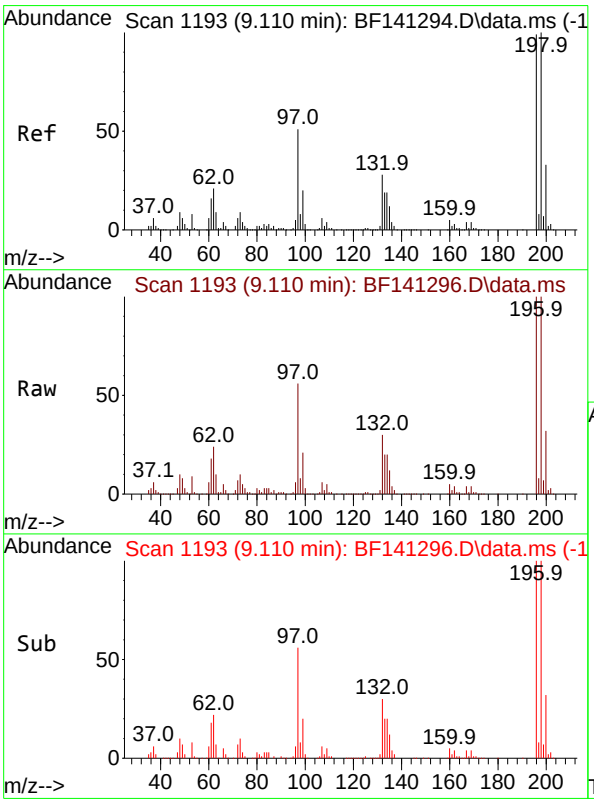
Ion	Ratio	Lower	Upper
196	100		
198	102.9	81.8	122.6
200	32.7	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

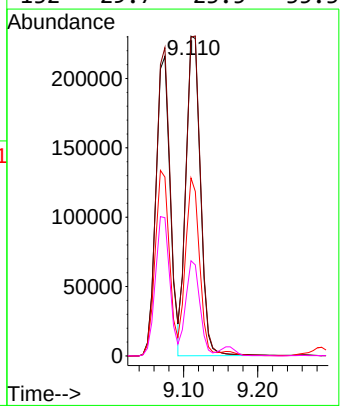
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

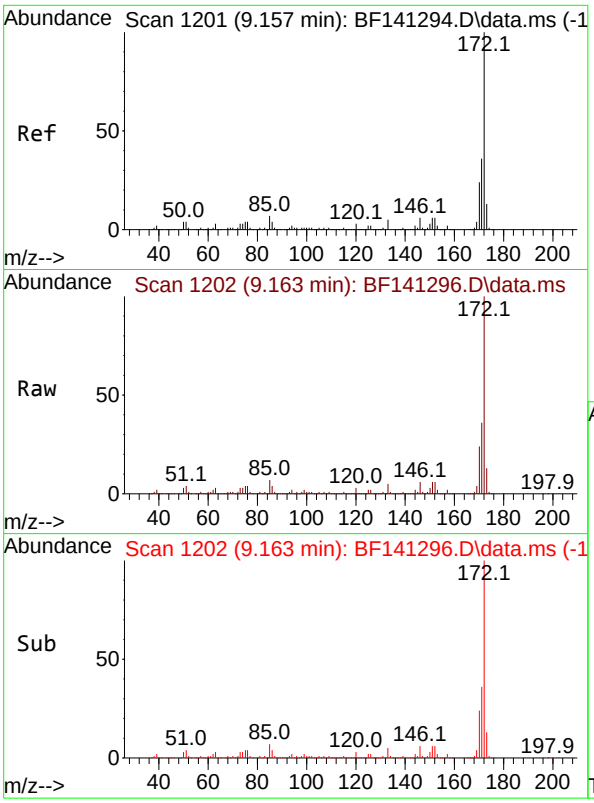


#44
2,4,5-Trichlorophenol
Concen: 59.000 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:196 Resp: 314912

Ion	Ratio	Lower	Upper
196	100		
198	99.7	80.5	120.7
97	55.7	42.8	64.2
132	29.7	23.5	35.3

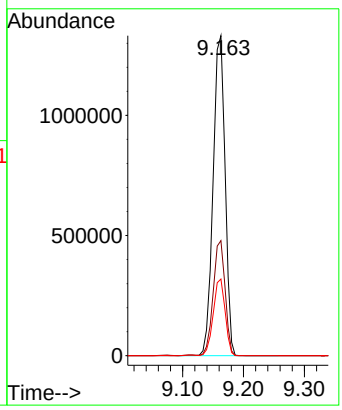




#45
2-Fluorobiphenyl
Concen: 102.411 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:172 Resp: 182437

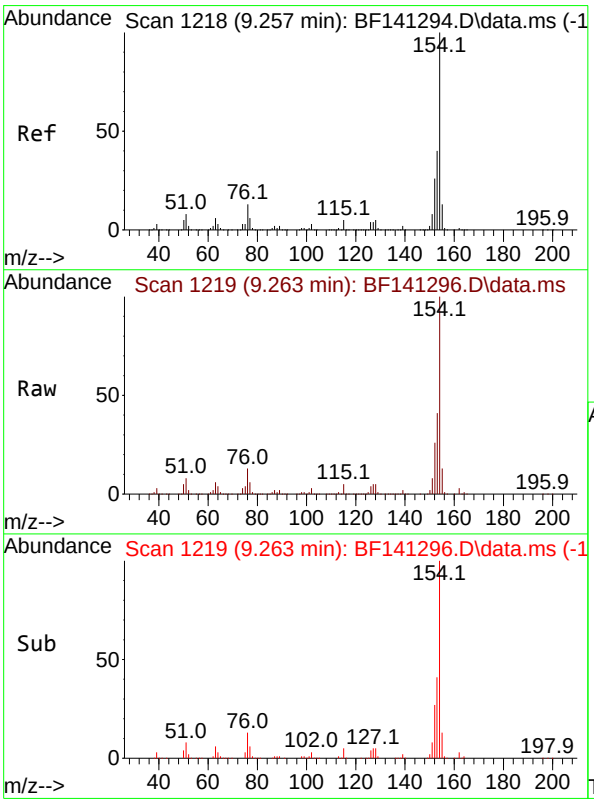
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	24.0	19.0	28.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

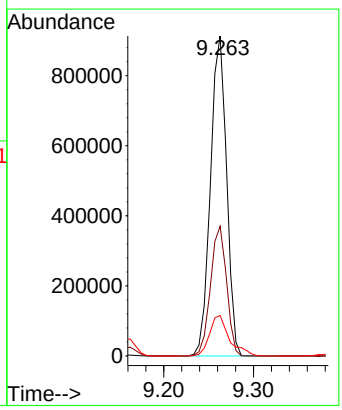
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

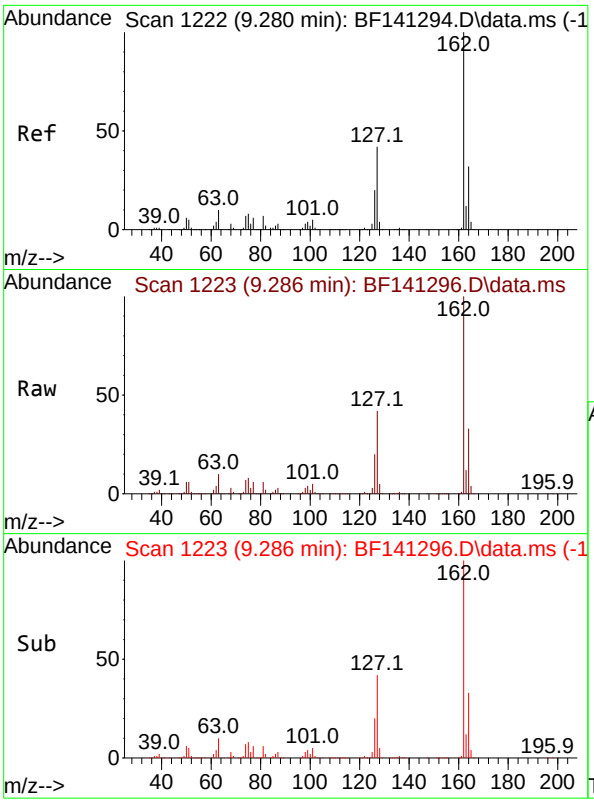


#46
1,1'-Biphenyl
Concen: 54.084 ng
RT: 9.263 min Scan# 1219
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:154 Resp: 1139946

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.0	60.0
76	12.7	0.0	32.8

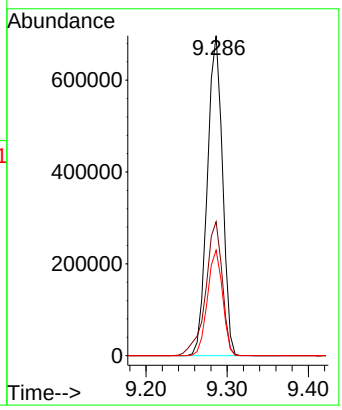




#47
2-Chloronaphthalene
Concen: 55.247 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:162 Resp: 90256

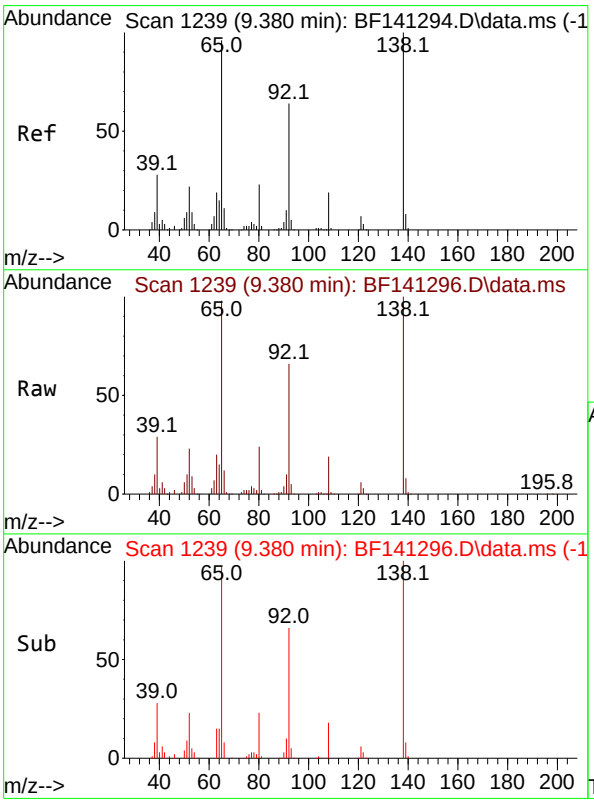
Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.7	50.5
164	33.0	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

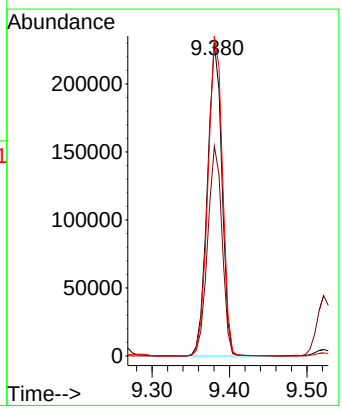
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

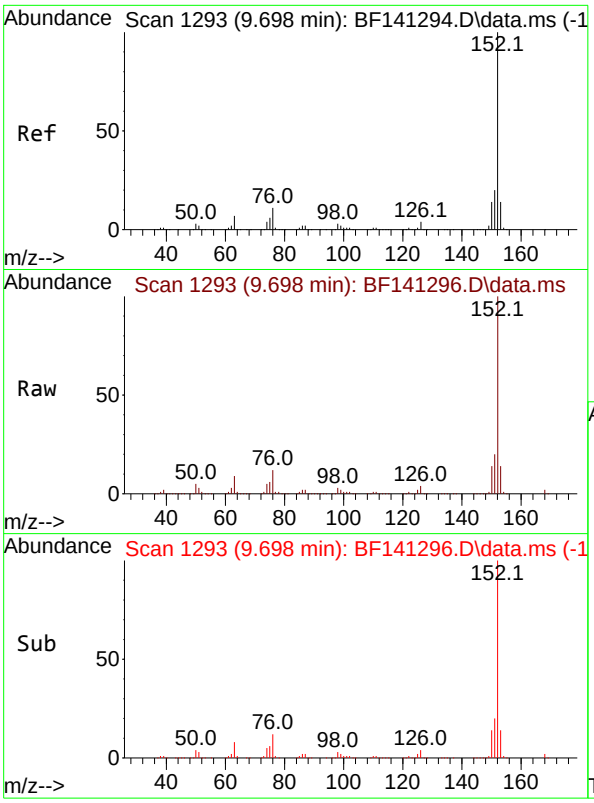


#48
2-Nitroaniline
Concen: 59.861 ng
RT: 9.380 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 65 Resp: 300339

Ion	Ratio	Lower	Upper
65	100		
92	67.1	53.3	79.9
138	102.3	83.6	125.4





#49
Acenaphthylene
Concen: 54.924 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

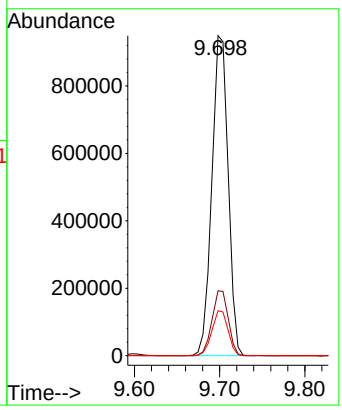
Tgt Ion:152 Resp: 125873

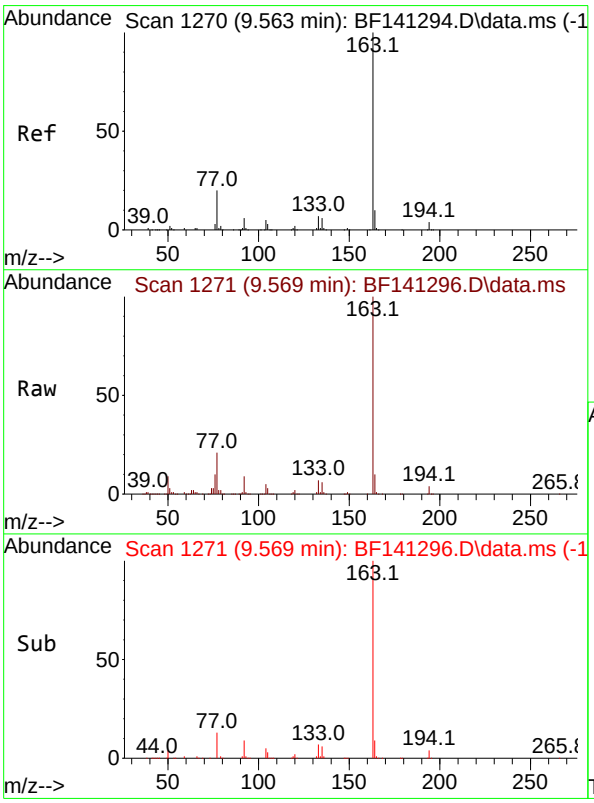
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	14.1	11.0	16.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

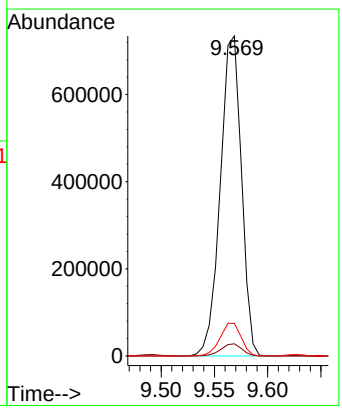


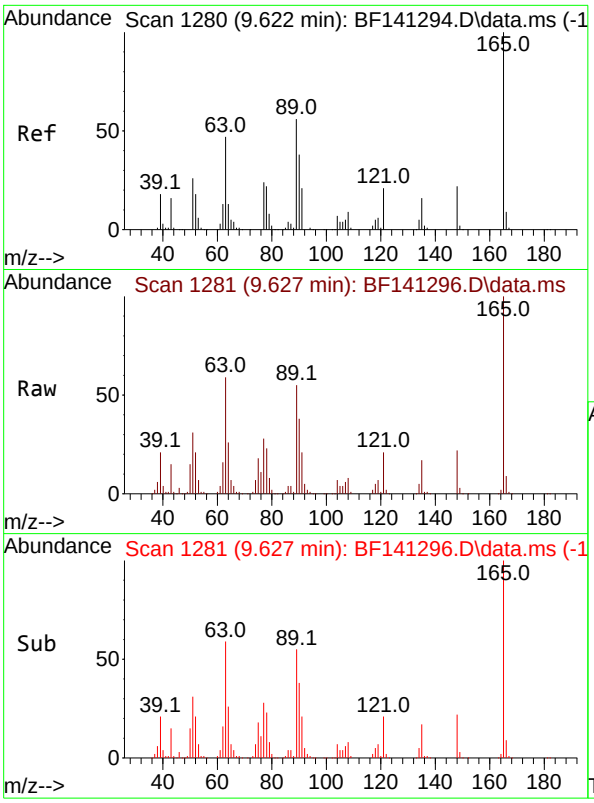


#50
Dimethylphthalate
Concen: 56.075 ng
RT: 9.569 min Scan# 1271
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:163 Resp: 1012298

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.0	12.0

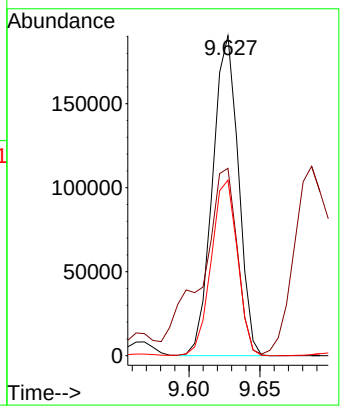




#51
2,6-Dinitrotoluene
Concen: 58.050 ng
RT: 9.627 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:165 Resp: 24124

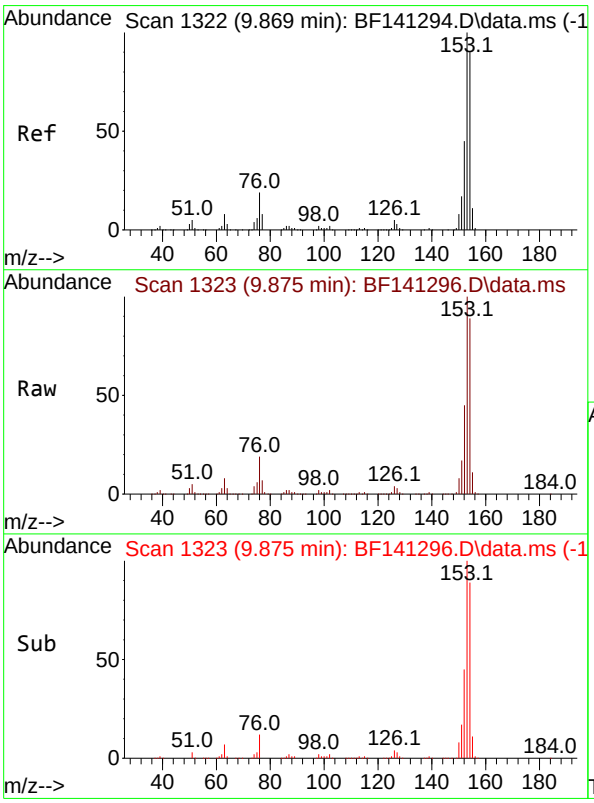
Ion	Ratio	Lower	Upper
165	100		
63	58.5	48.1	72.1
89	54.8	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

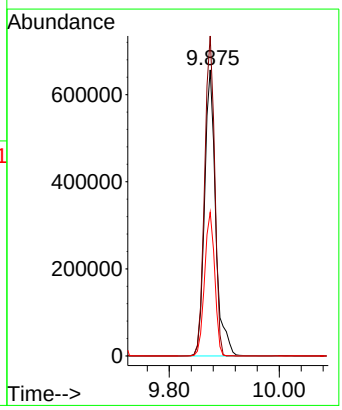
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

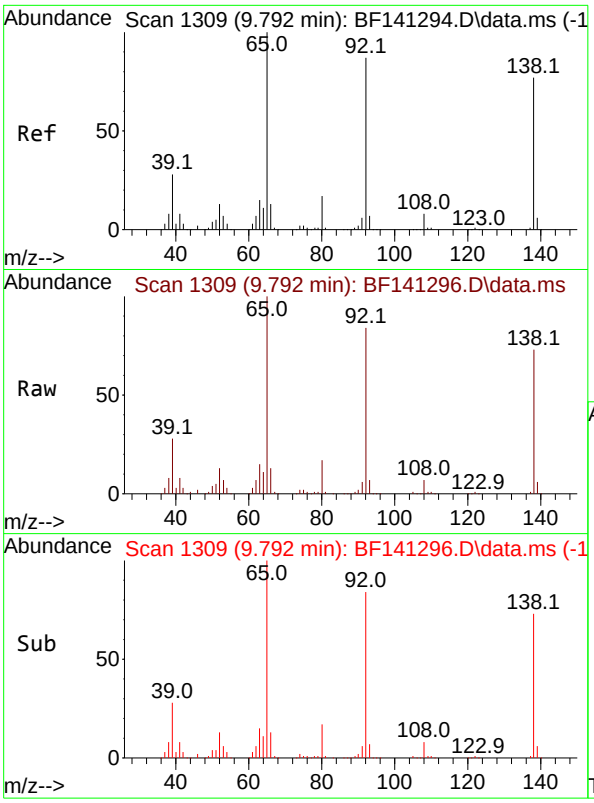


#52
Acenaphthene
Concen: 56.639 ng
RT: 9.875 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:154 Resp: 921519

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.0	133.4
152	50.2	40.2	60.4





#53
3-Nitroaniline
Concen: 56.245 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

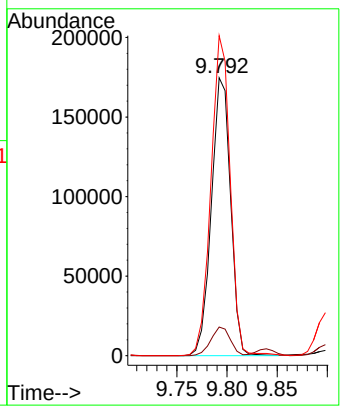
Tgt Ion:138 Resp: 23268

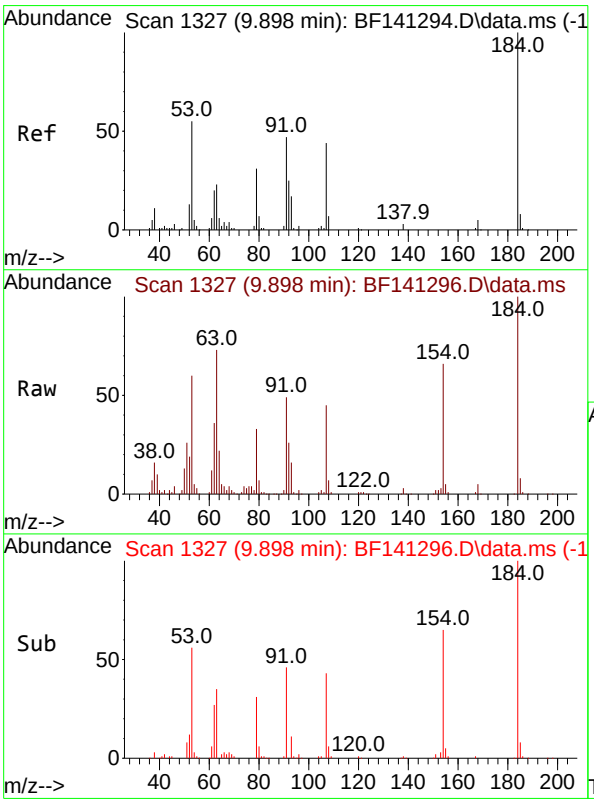
Ion	Ratio	Lower	Upper
138	100		
108	10.3	8.6	12.8
92	115.2	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

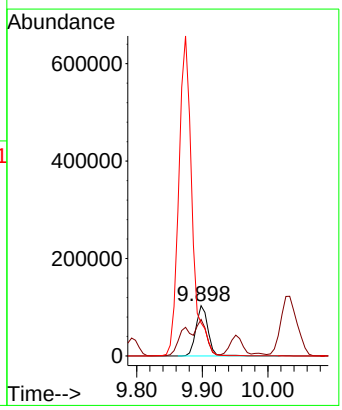


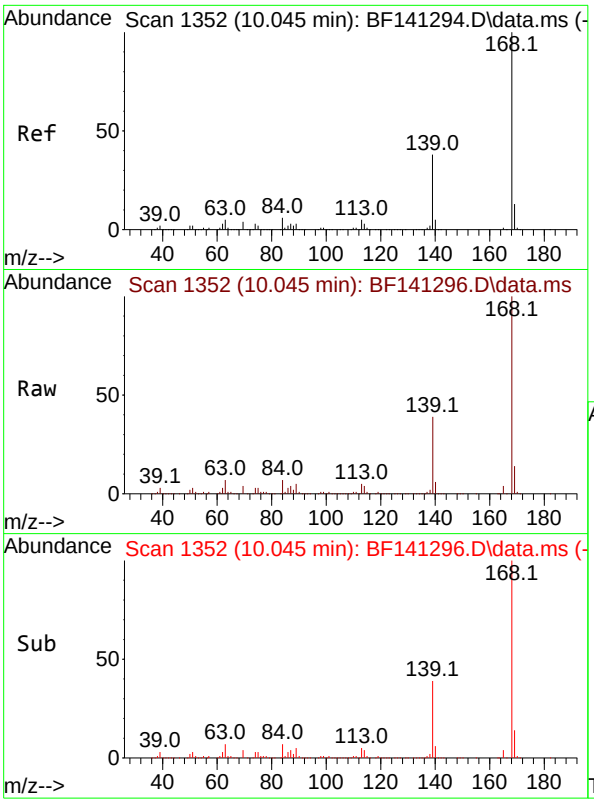


#54
2,4-Dinitrophenol
Concen: 84.109 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:184 Resp: 132244

Ion	Ratio	Lower	Upper
184	100		
63	72.8	54.1	81.1
154	65.5	50.7	76.1

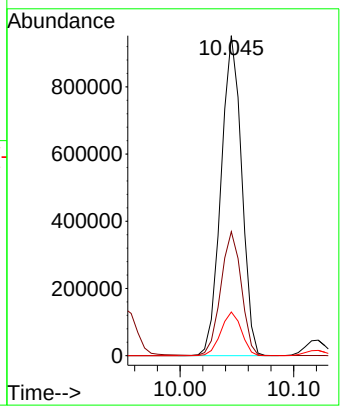




#55
Dibenzofuran
Concen: 54.629 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:168 Resp: 120202

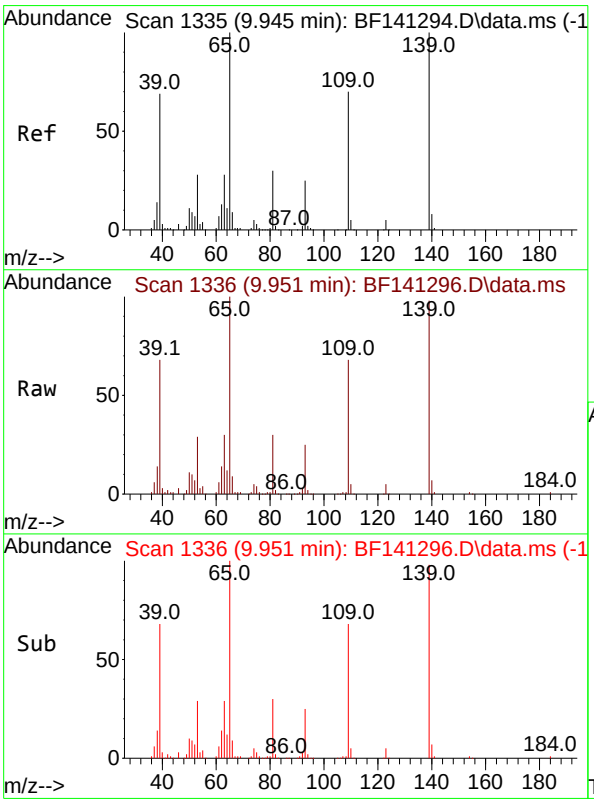
Ion	Ratio	Lower	Upper
168	100		
139	38.8	30.6	46.0
169	13.7	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

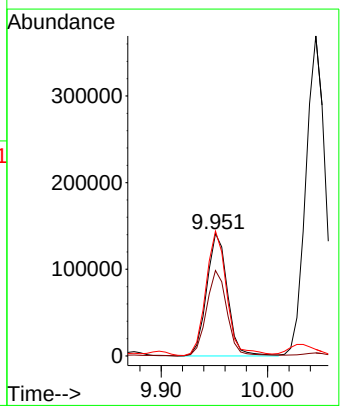
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

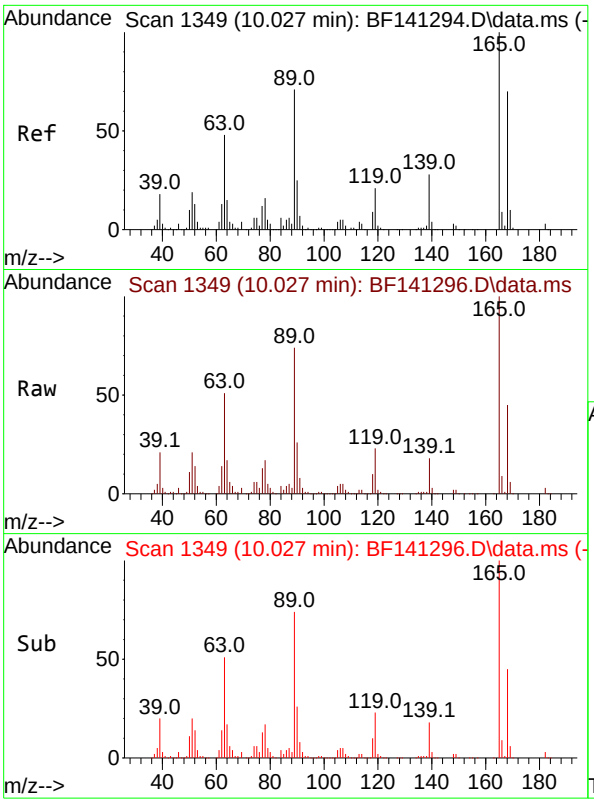


#56
4-Nitrophenol
Concen: 66.120 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:139 Resp: 190620

Ion	Ratio	Lower	Upper
139	100		
109	69.8	50.2	90.2
65	102.1	80.6	120.6

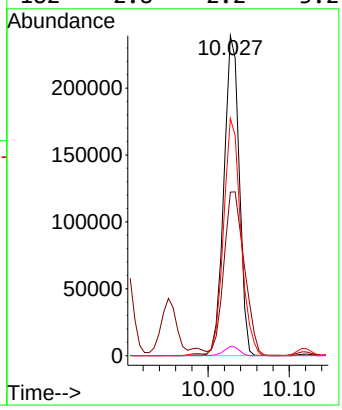




#57
2,4-Dinitrotoluene
Concen: 58.312 ng
RT: 10.027 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:165 Resp: 31522

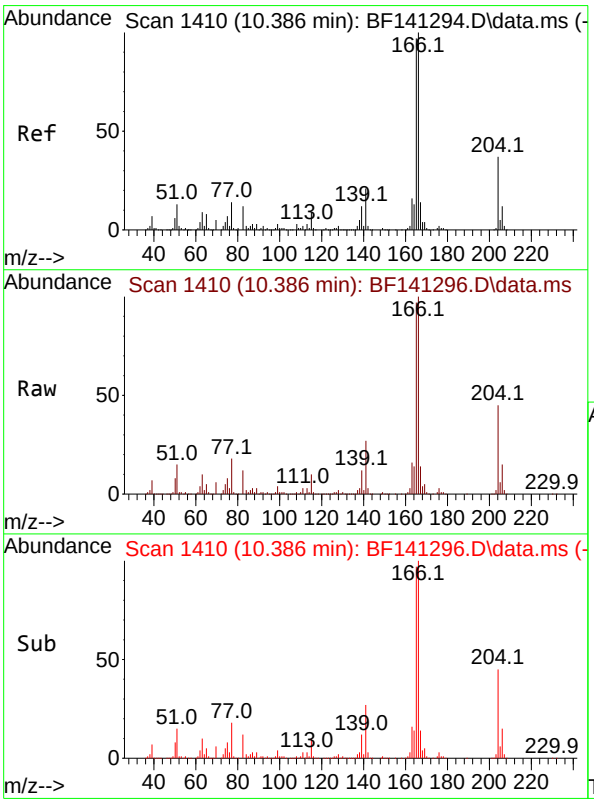
Ion	Ratio	Lower	Upper
165	100		
63	51.1	39.2	58.8
89	74.2	56.9	85.3
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

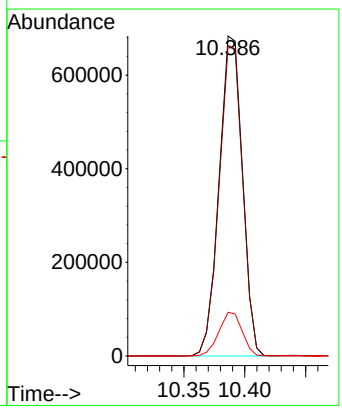
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

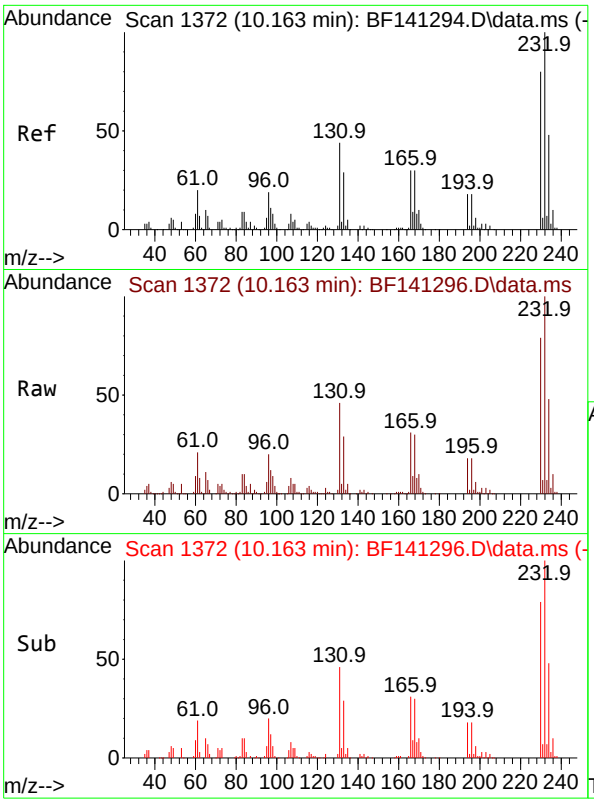


#58
Fluorene
Concen: 53.236 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:166 Resp: 915246

Ion	Ratio	Lower	Upper
166	100		
165	97.1	77.5	116.3
167	13.6	10.9	16.3

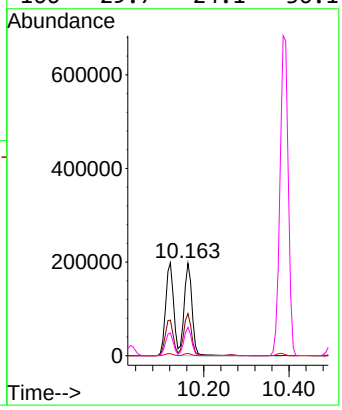




#59
2,3,4,6-Tetrachlorophenol
Concen: 60.106 ng
RT: 10.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:232 Resp: 25296

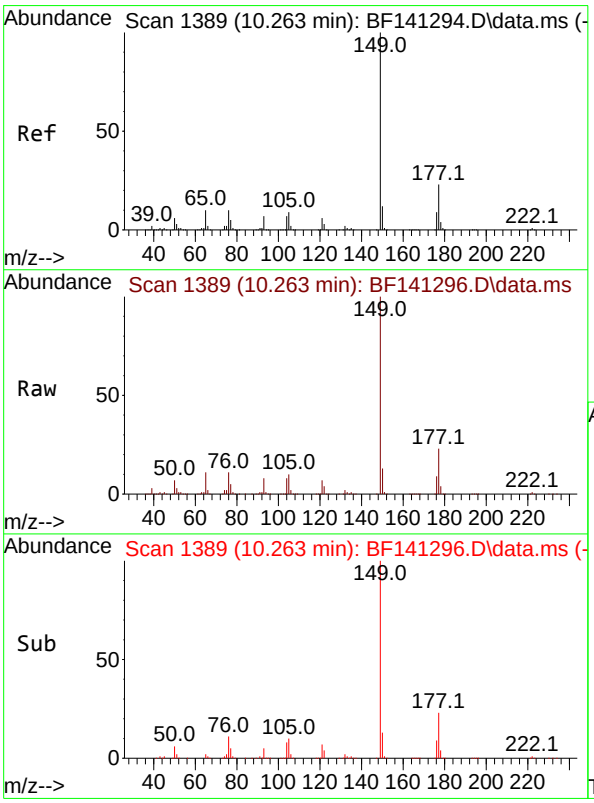
Ion	Ratio	Lower	Upper
232	100		
131	45.3	36.4	54.6
130	2.3	1.9	2.9
166	29.7	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

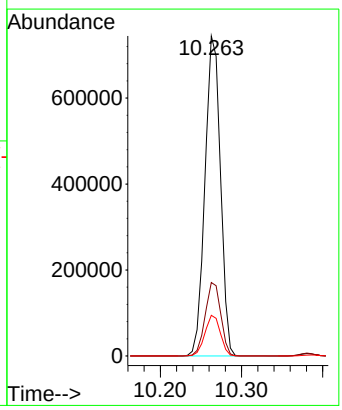
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

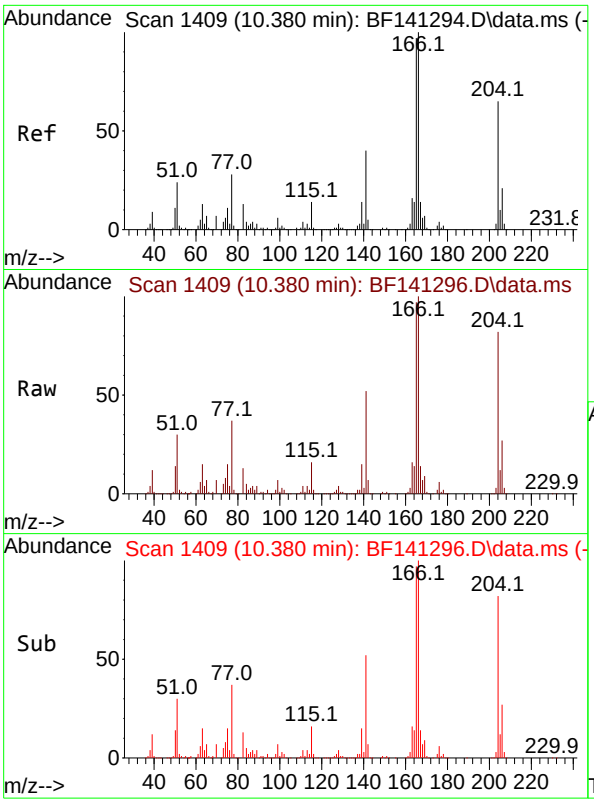


#60
Diethylphthalate
Concen: 55.897 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:149 Resp: 983788

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.5	27.7
150	12.7	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 53.136 ng
RT: 10.380 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

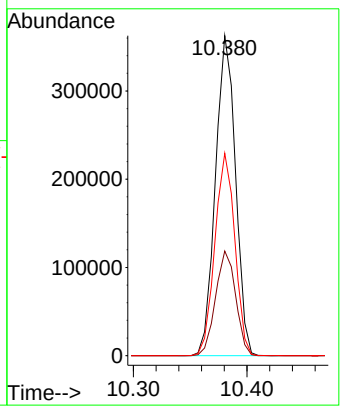
Tgt Ion:204 Resp: 44584

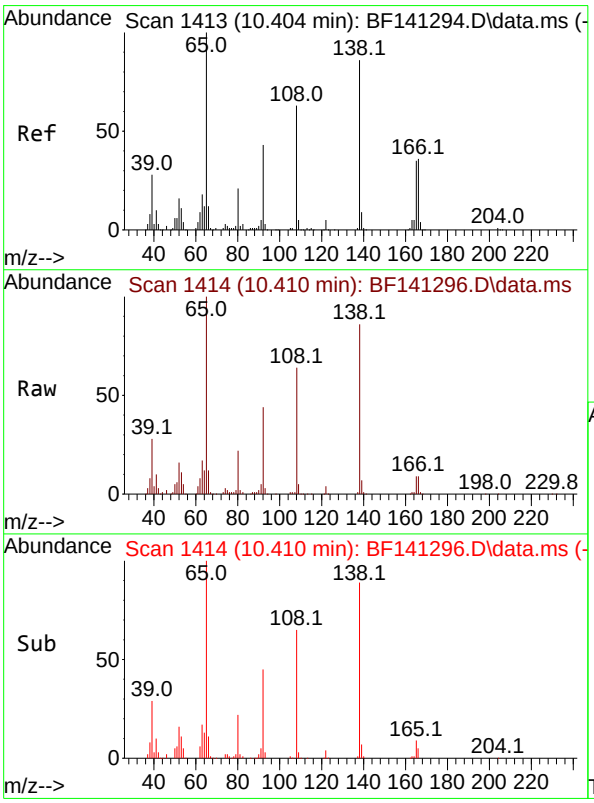
Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.9	38.9
141	63.2	49.5	74.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

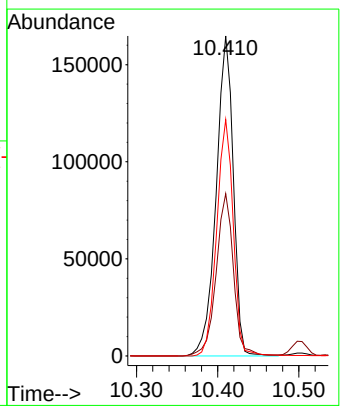


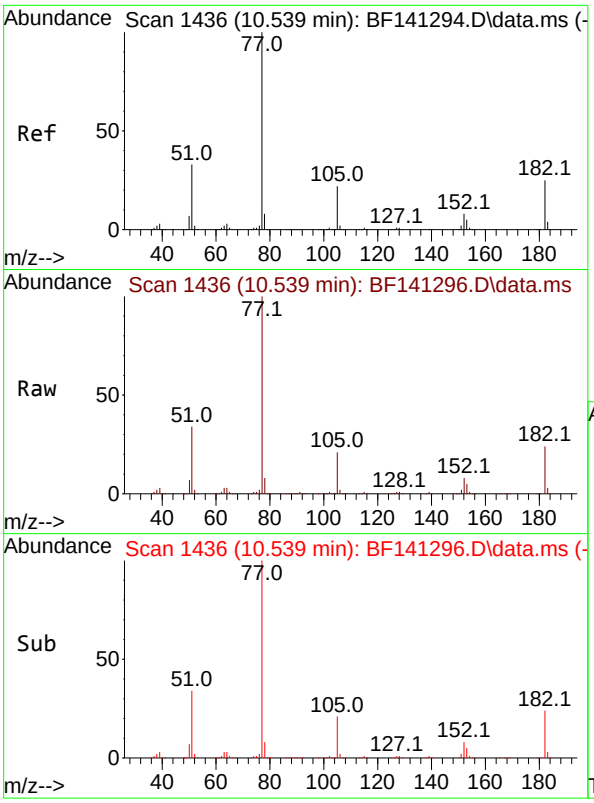


#62
4-Nitroaniline
Concen: 61.216 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:138 Resp: 242716

Ion	Ratio	Lower	Upper
138	100		
92	50.7	30.1	70.1
108	73.8	53.1	93.1

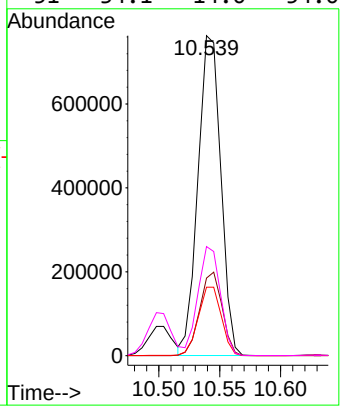




#63
Azobenzene
Concen: 56.821 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 77 Resp: 99660

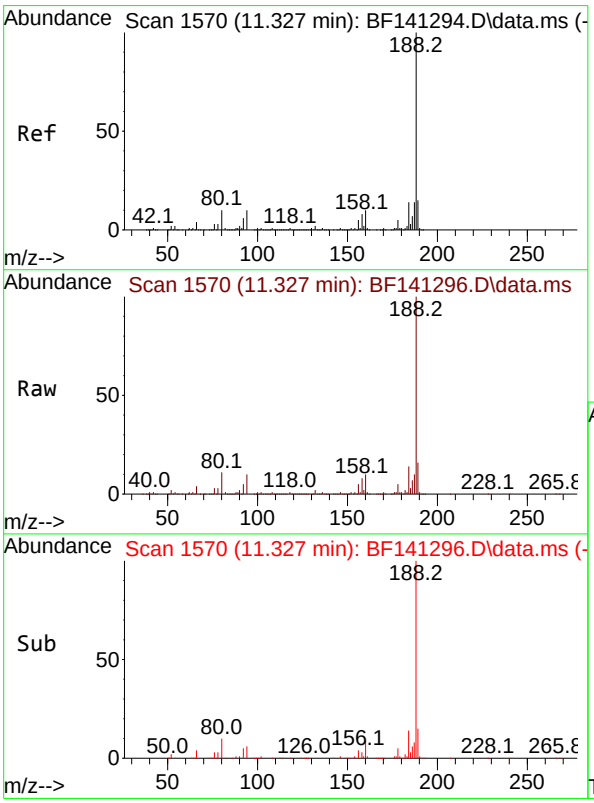
Ion	Ratio	Lower	Upper
77	100		
182	24.3	5.1	45.1
105	21.4	1.8	41.8
51	34.1	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

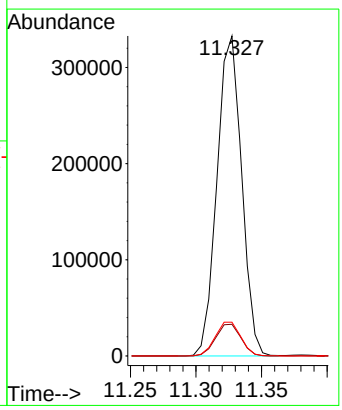
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

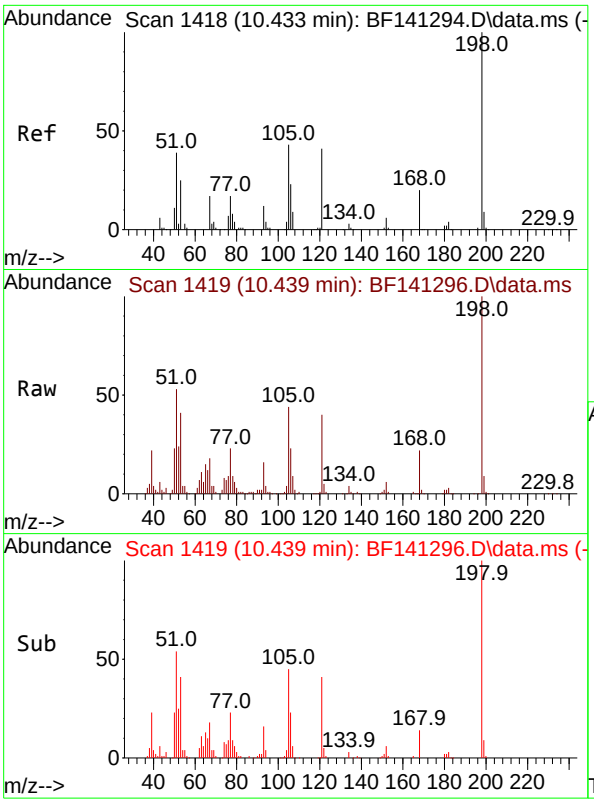


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:188 Resp: 434671

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.8	11.6
80	10.6	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 71.103 ng
RT: 10.439 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

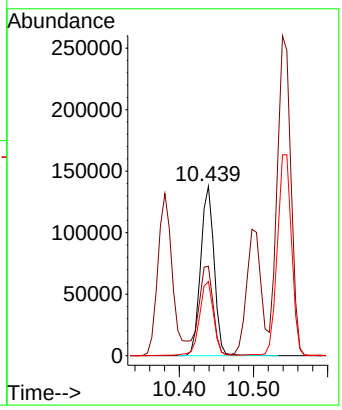
Tgt Ion:198 Resp: 17424

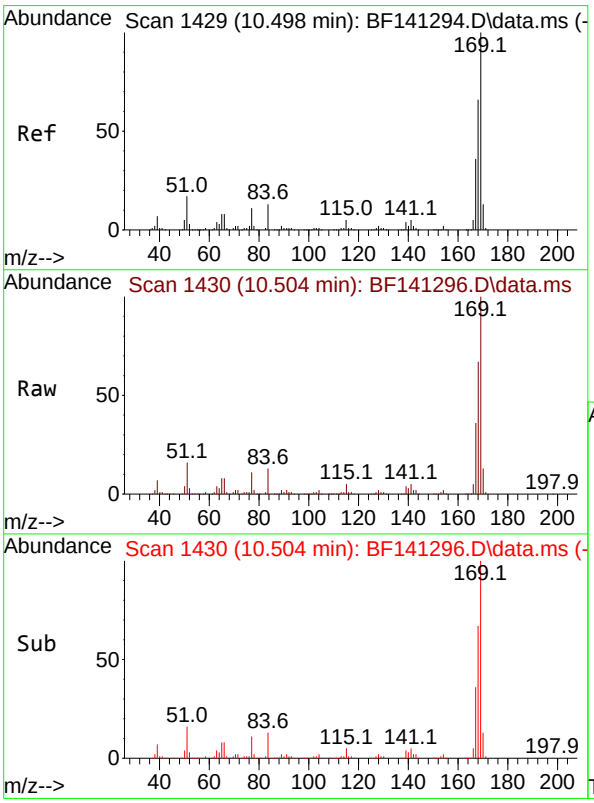
Ion	Ratio	Lower	Upper
198	100		
51	52.8	33.4	73.4
105	43.7	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

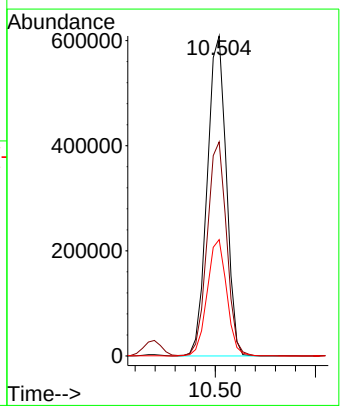


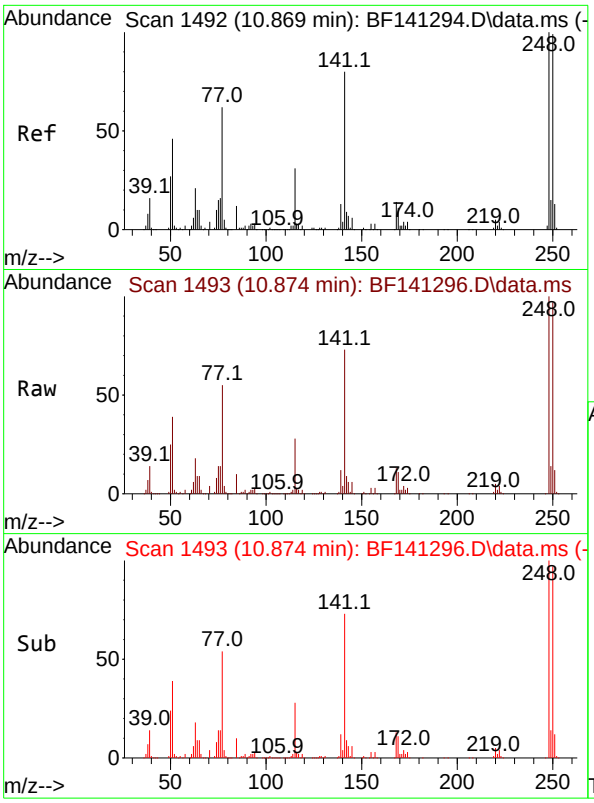


#66
n-Nitrosodiphenylamine
Concen: 55.423 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:169 Resp: 800147

Ion	Ratio	Lower	Upper
169	100		
168	66.9	53.0	79.4
167	36.3	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 57.957 ng
RT: 10.874 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

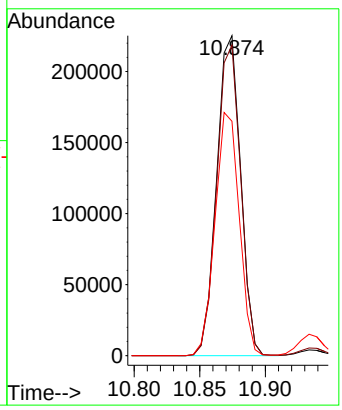
Tgt Ion:248 Resp: 28664

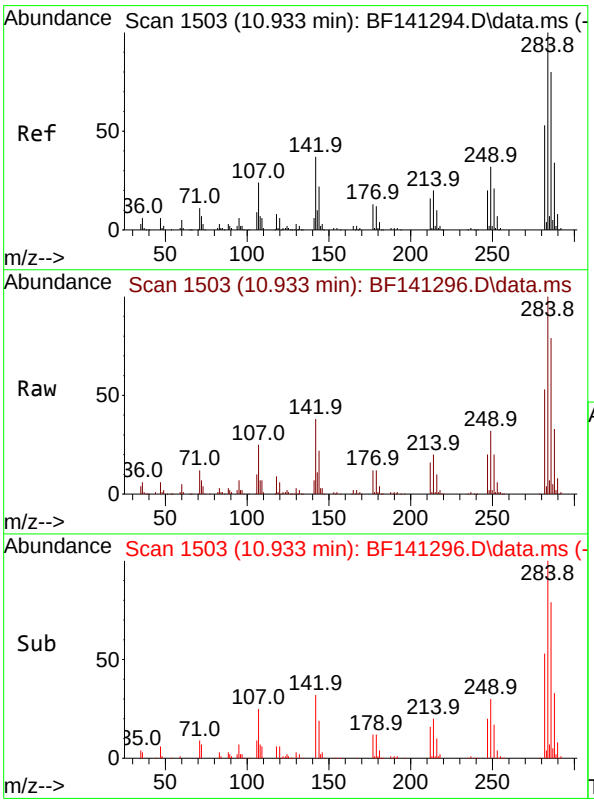
Ion	Ratio	Lower	Upper
248	100		
250	97.0	79.0	118.4
141	73.2	63.7	95.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

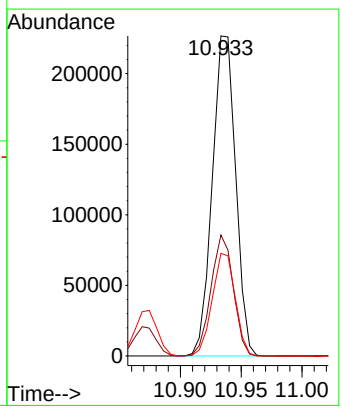


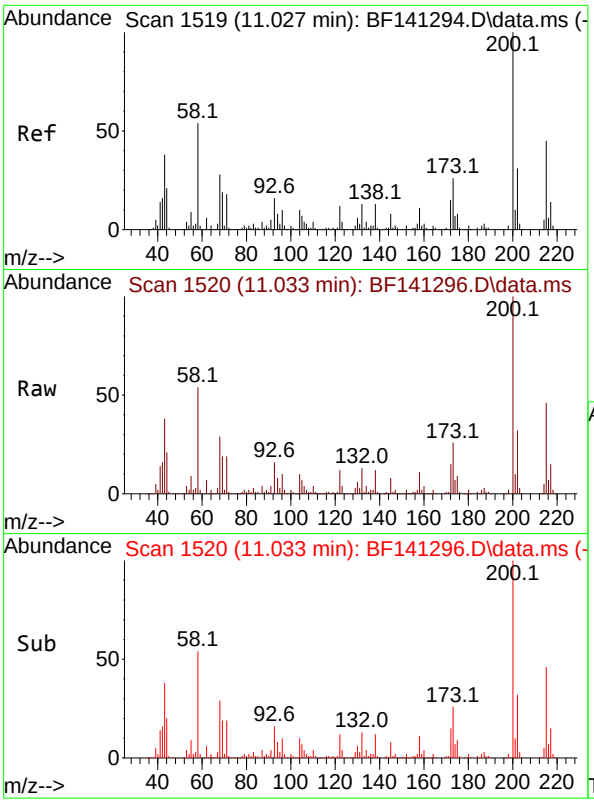


#68
Hexachlorobenzene
Concen: 57.366 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:284 Resp: 302508

Ion	Ratio	Lower	Upper
284	100		
142	37.8	29.5	44.3
249	32.0	25.4	38.2

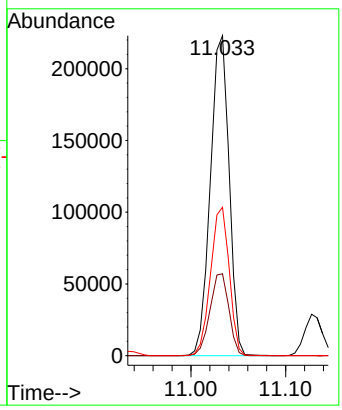




#69
Atrazine
Concen: 66.863 ng
RT: 11.033 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:200 Resp: 30652

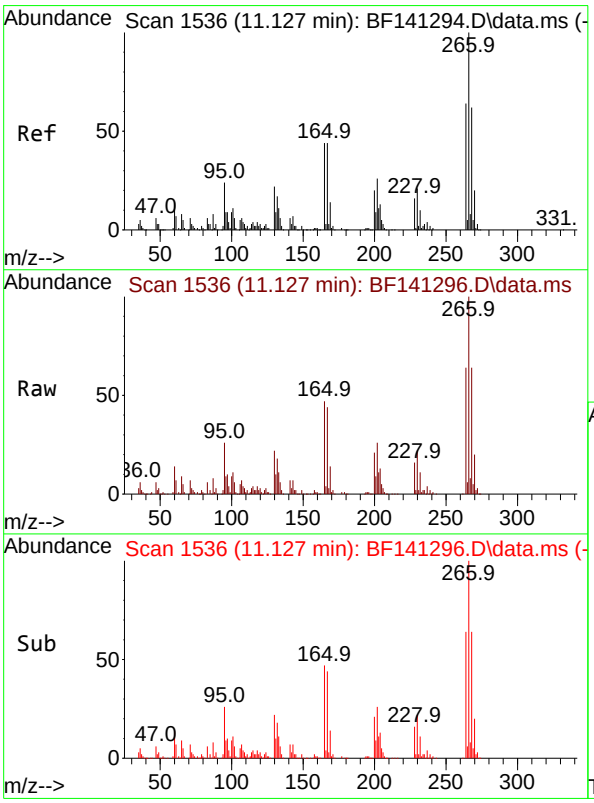
Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.9	45.9
215	46.4	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

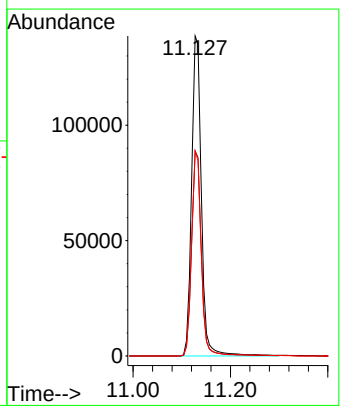
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

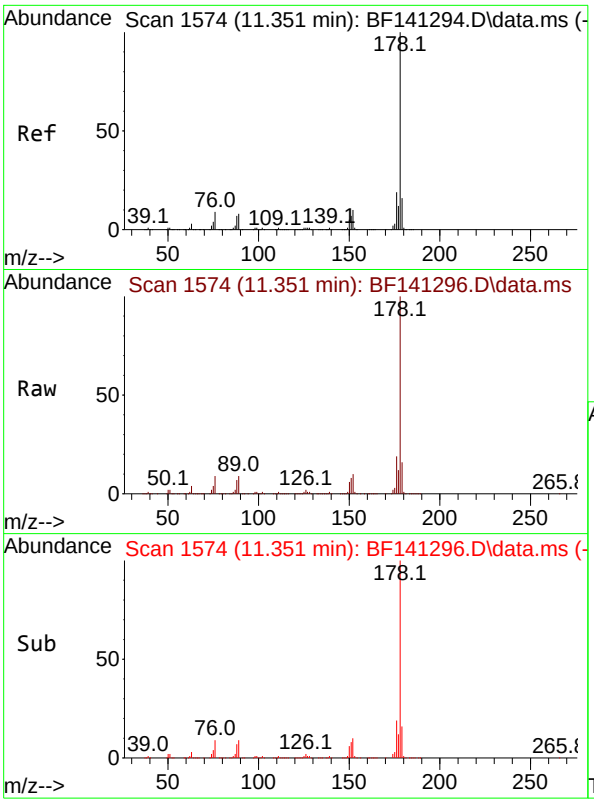


#70
Pentachlorophenol
Concen: 65.443 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:266 Resp: 194335

Ion	Ratio	Lower	Upper
266	100		
268	64.1	49.9	74.9
264	63.9	51.0	76.4

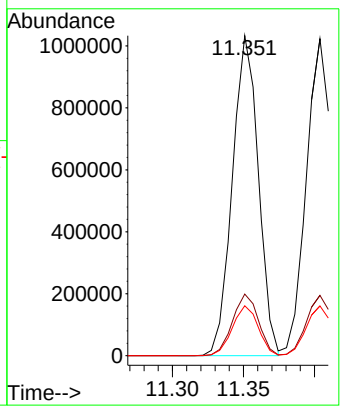




#71
Phenanthrene
Concen: 54.311 ng
RT: 11.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:178 Resp: 131698

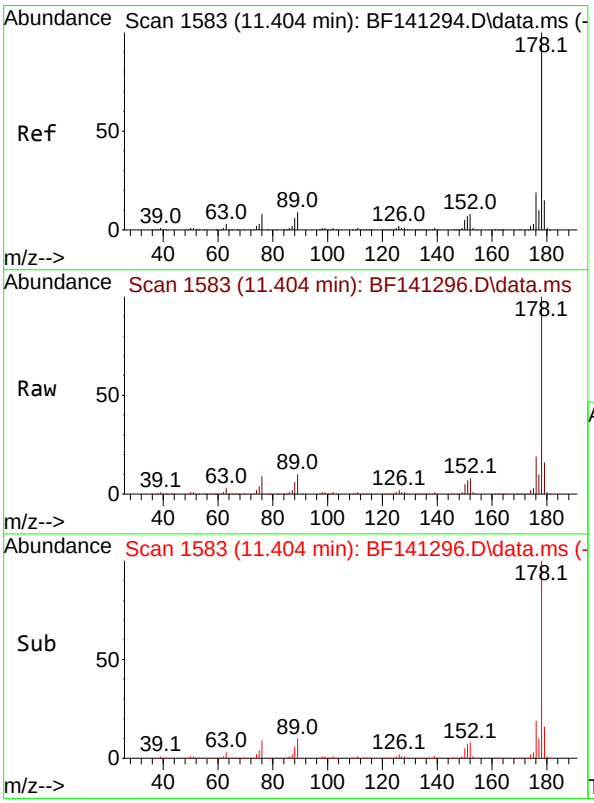
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.6	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

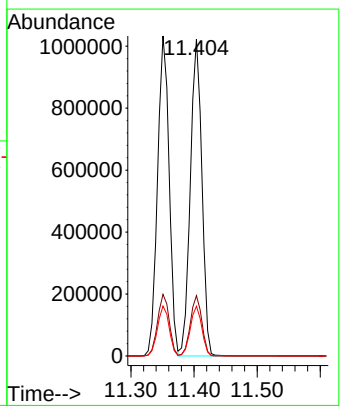
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

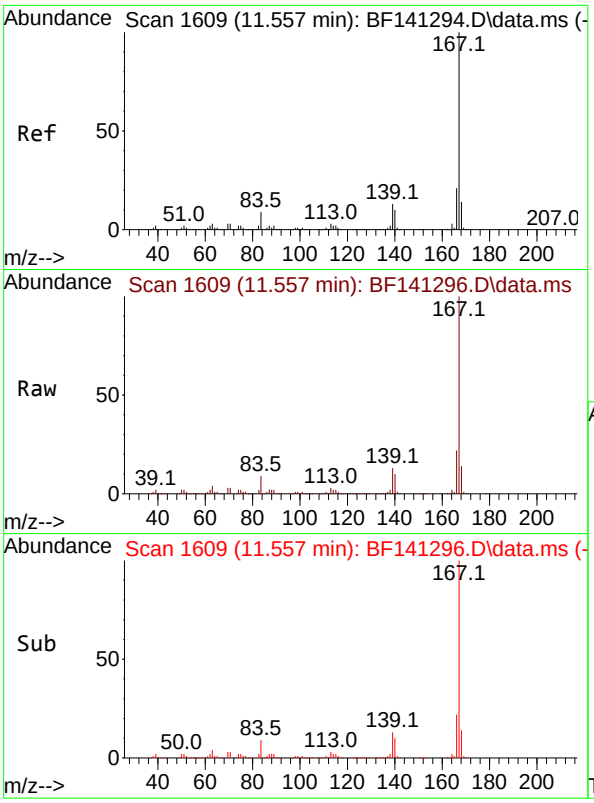


#72
Anthracene
Concen: 54.763 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:178 Resp: 1298334

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.7	12.3	18.5

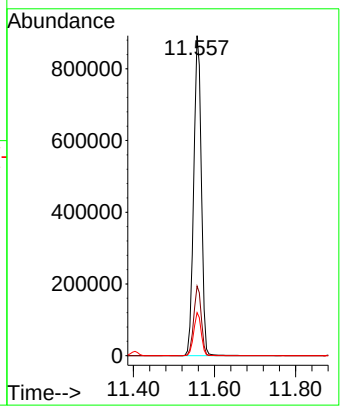




#73
Carbazole
Concen: 55.874 ng
RT: 11.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:167 Resp: 117333

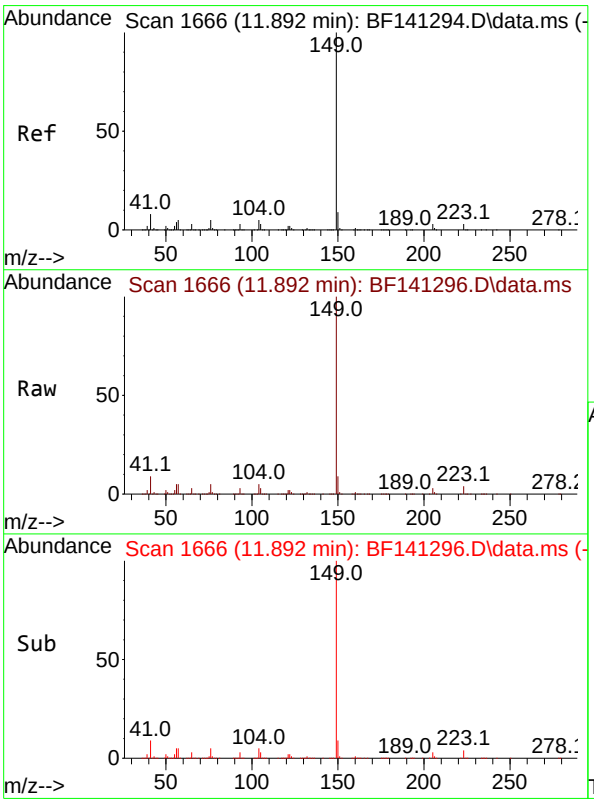
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

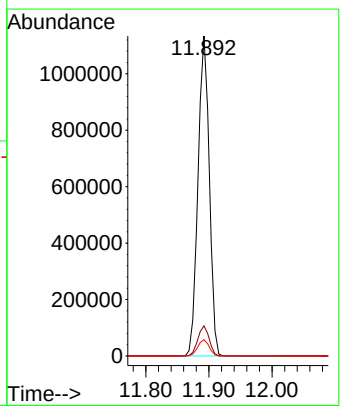
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

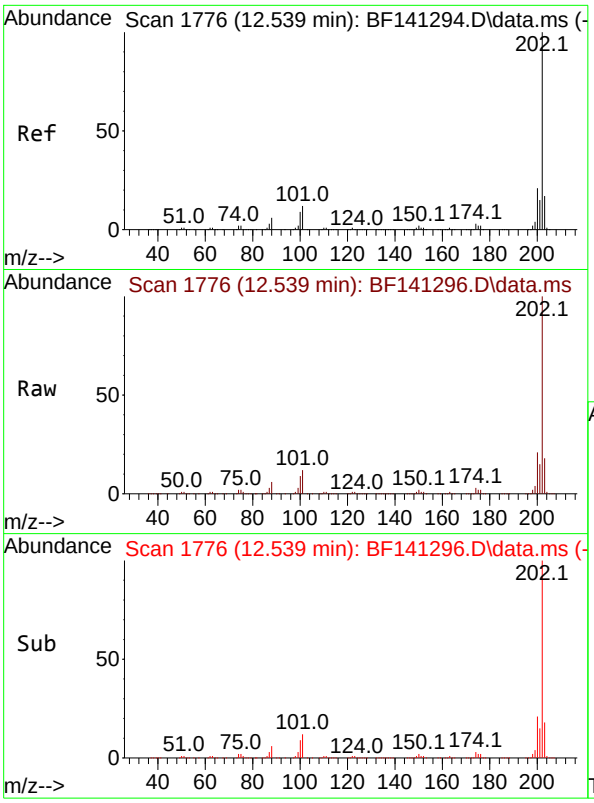


#74
Di-n-butylphthalate
Concen: 55.325 ng
RT: 11.892 min Scan# 1666
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:149 Resp: 1410222

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.1	3.9	5.9

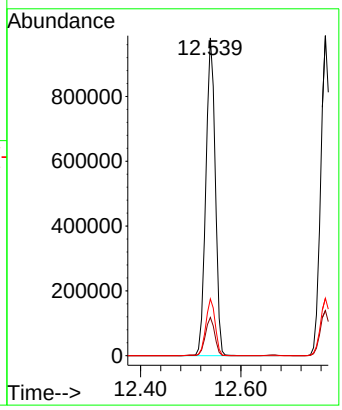




#75
Fluoranthene
Concen: 52.878 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:202 Resp: 127999

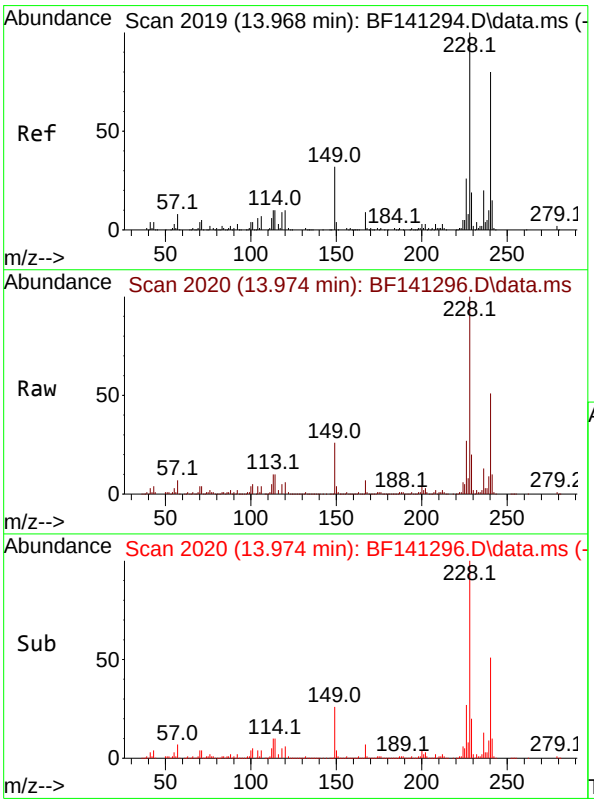
Ion	Ratio	Lower	Upper
202	100		
101	12.0	0.0	31.7
203	17.9	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

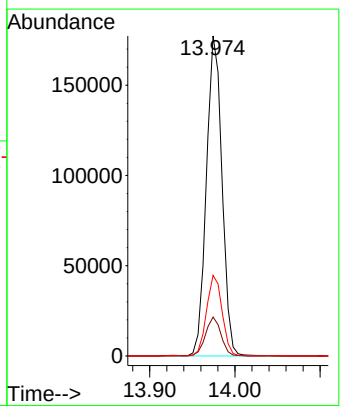
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

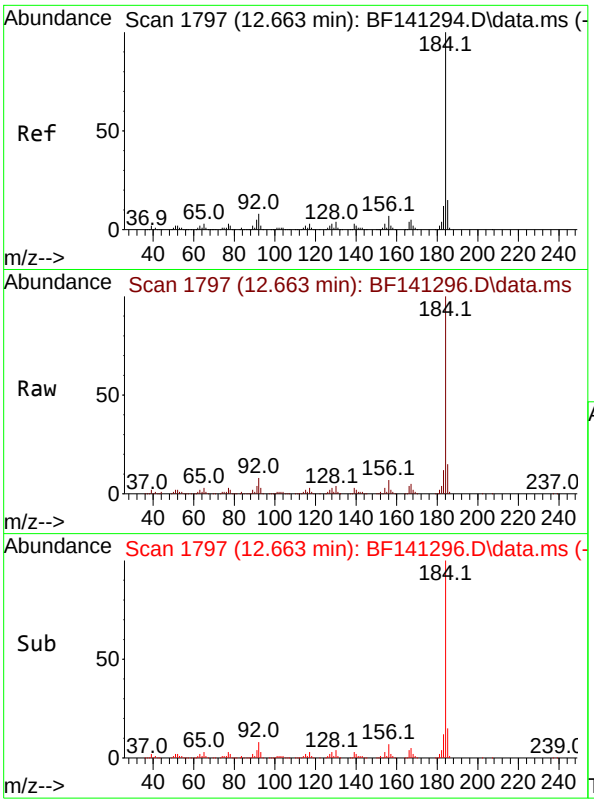


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:240 Resp: 225615

Ion	Ratio	Lower	Upper
240	100		
120	12.1	10.0	15.0
236	25.2	19.7	29.5





#77
Benzidine
Concen: 67.692 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

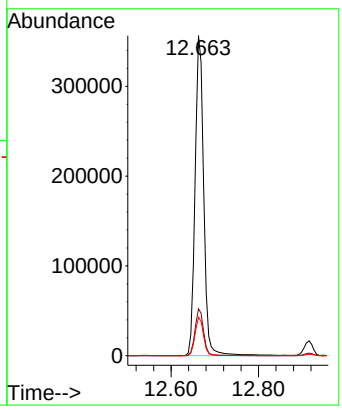
Tgt Ion:184 Resp: 490009

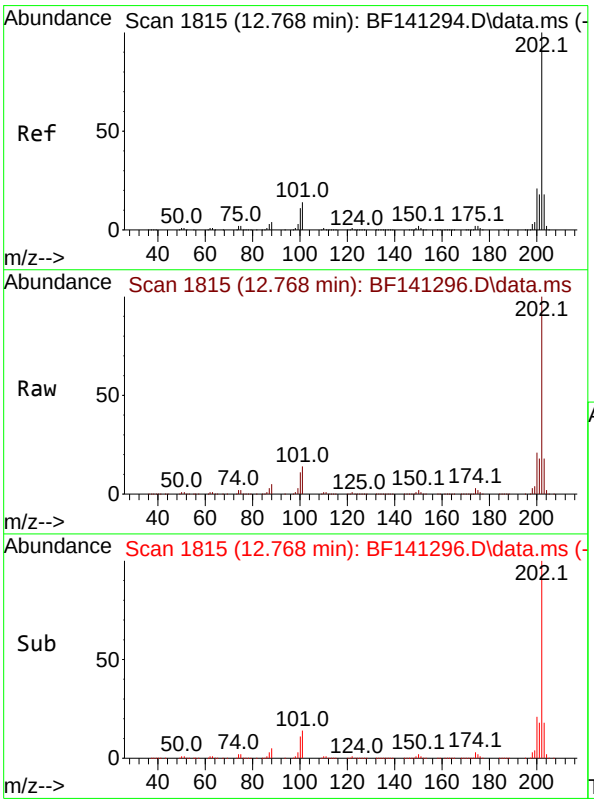
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.9	17.9
183	12.0	9.5	14.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

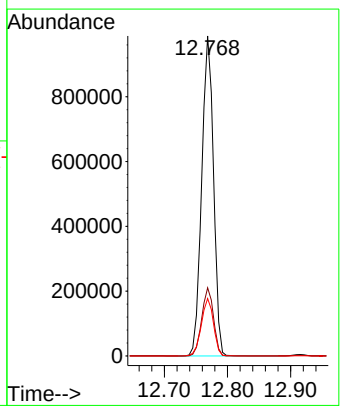


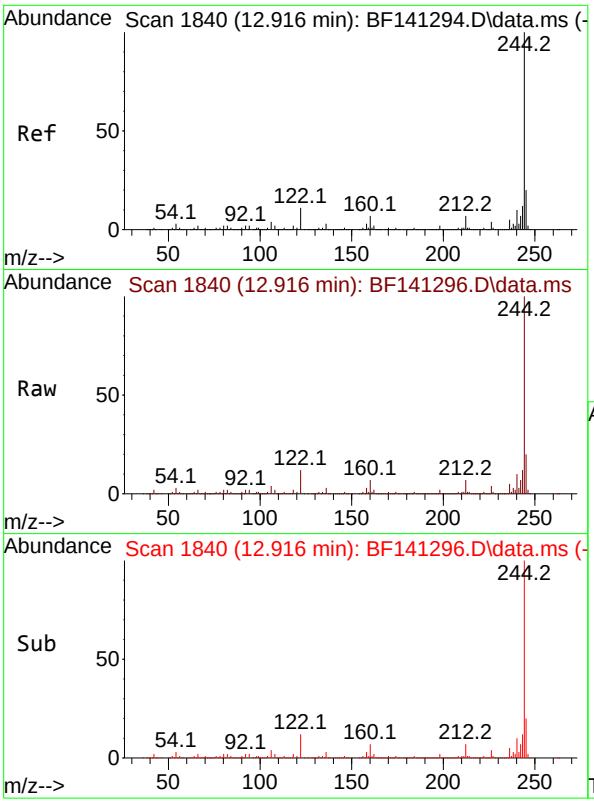


#78
Pyrene
Concen: 57.717 ng
RT: 12.768 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:202 Resp: 1284820

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	14.3	21.5

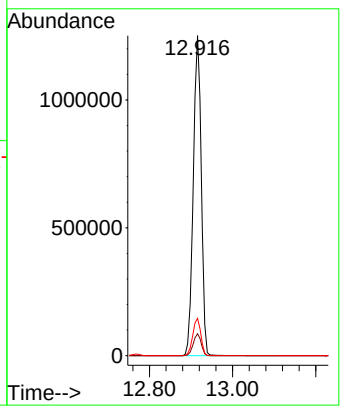




#79
Terphenyl-d14
Concen: 109.453 ng
RT: 12.916 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:244 Resp: 166559

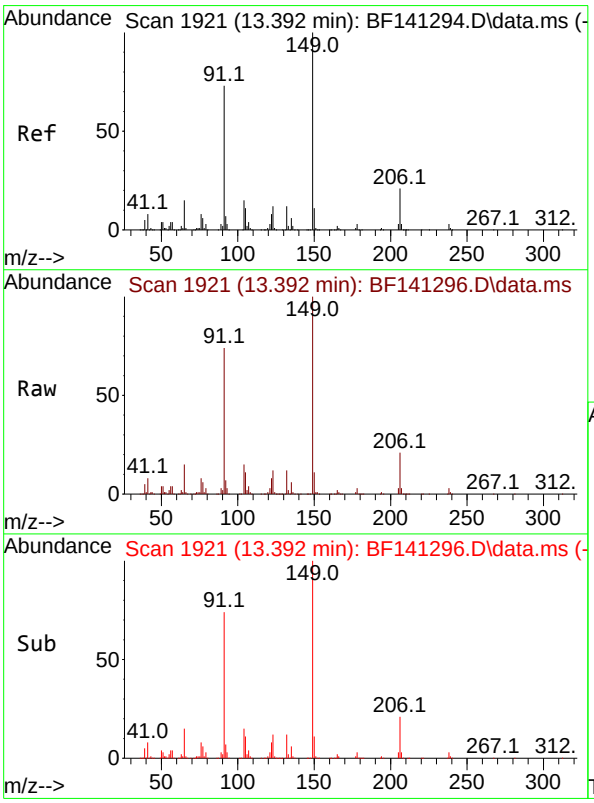
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	11.6	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

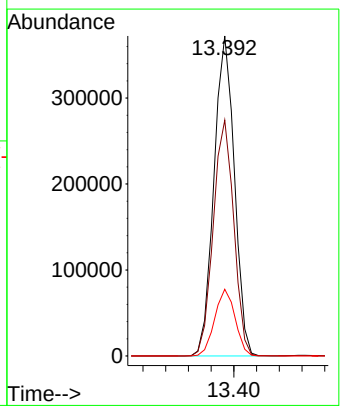
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

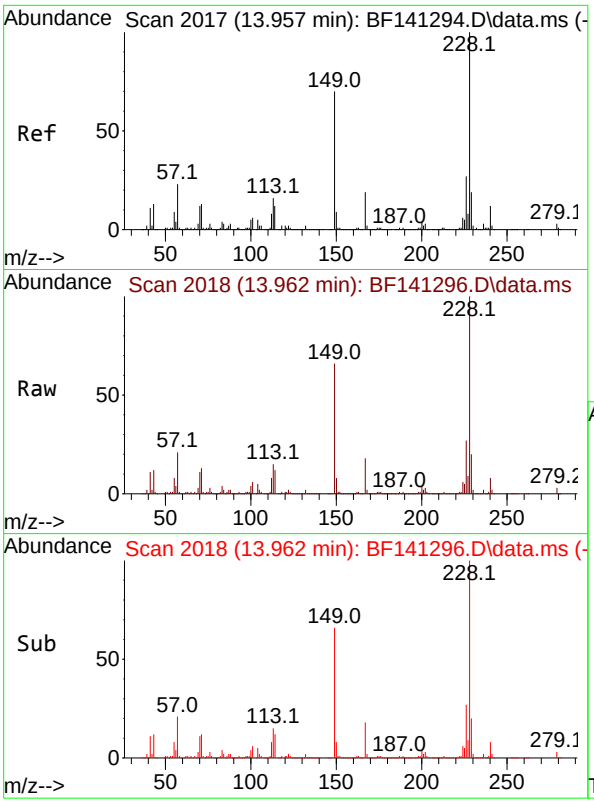


#80
Butylbenzylphthalate
Concen: 60.745 ng
RT: 13.392 min Scan# 1921
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:149 Resp: 465533

Ion	Ratio	Lower	Upper
149	100		
91	73.7	58.6	87.8
206	20.8	16.7	25.1

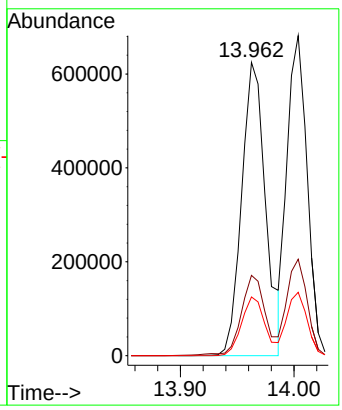




#81
Benzo(a)anthracene
Concen: 57.742 ng
RT: 13.962 min Scan# 2
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:228 Resp: 91721

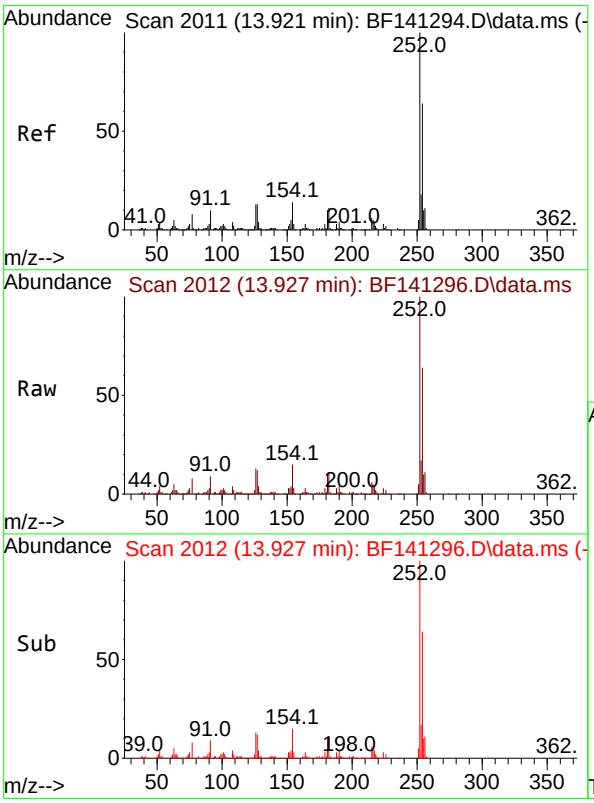
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.4	32.2
229	20.0	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

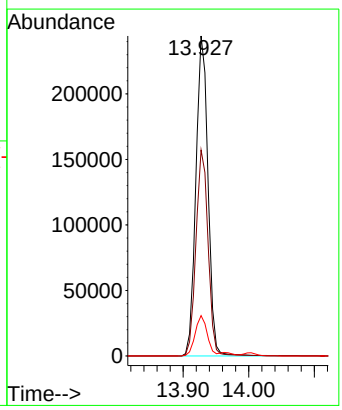
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

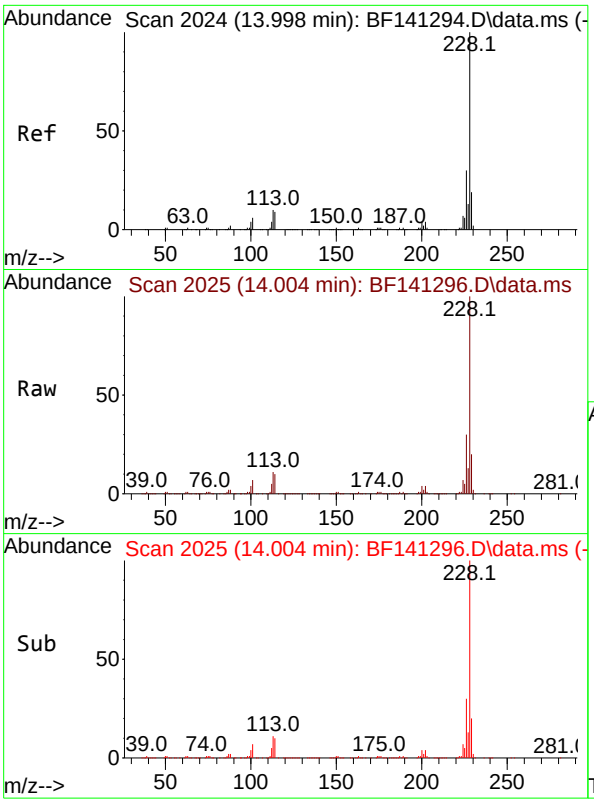


#82
3,3'-Dichlorobenzidine
Concen: 64.819 ng
RT: 13.927 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:252 Resp: 315503

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.3	76.9
126	12.6	10.0	15.0





#83
Chrysene
Concen: 58.239 ng
RT: 14.004 min Scan# 2(
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

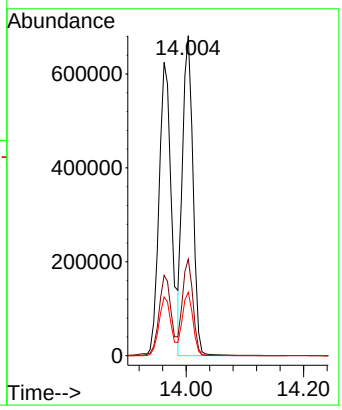
Tgt Ion:228 Resp: 84112(

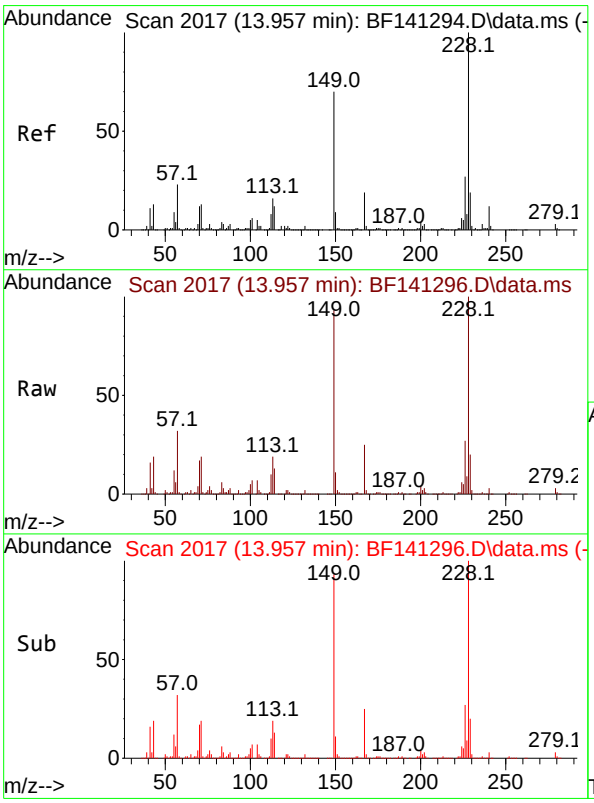
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.8	15.6	23.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

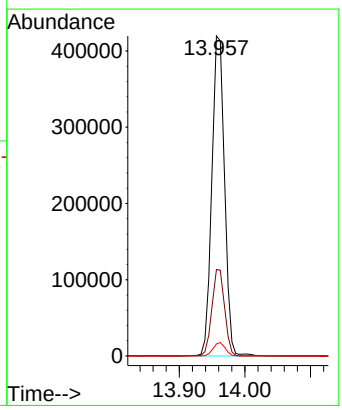


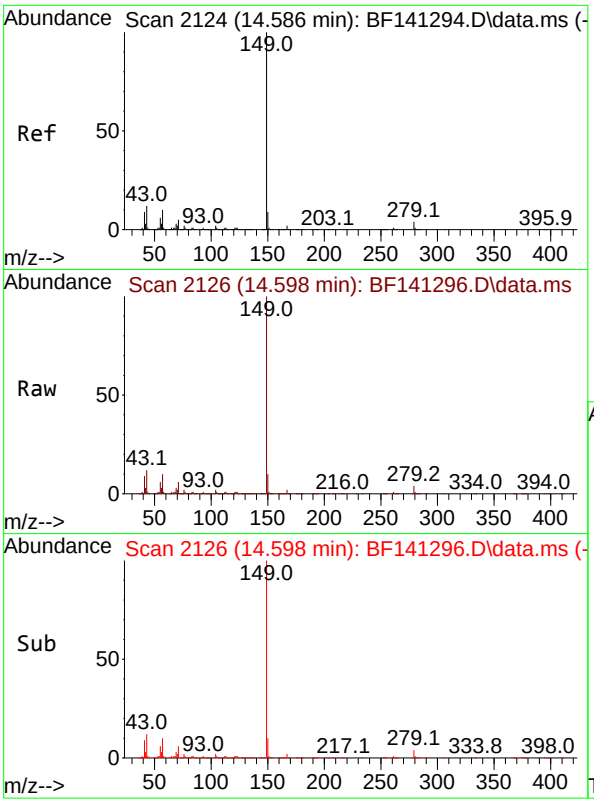


#84
Bis(2-ethylhexyl)phthalate
Concen: 57.438 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:149 Resp: 564642

Ion	Ratio	Lower	Upper
149	100		
167	27.0	21.8	32.8
279	3.8	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 64.953 ng
RT: 14.598 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

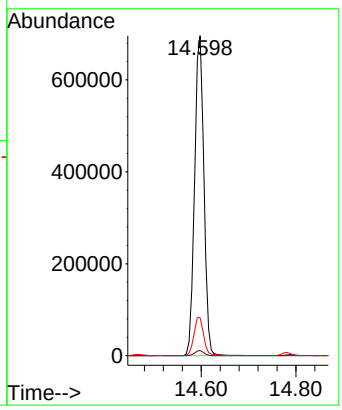
Tgt Ion:149 Resp: 95147

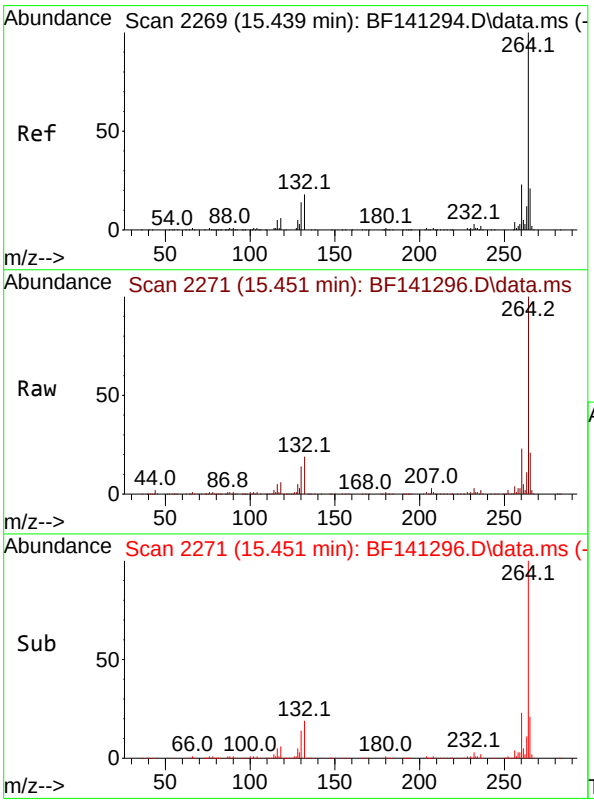
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.6	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

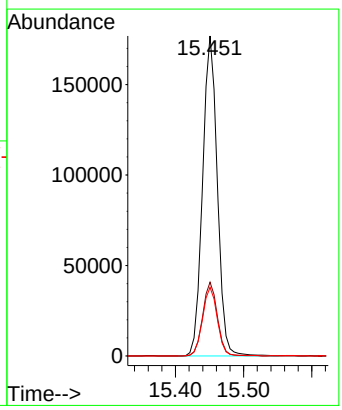


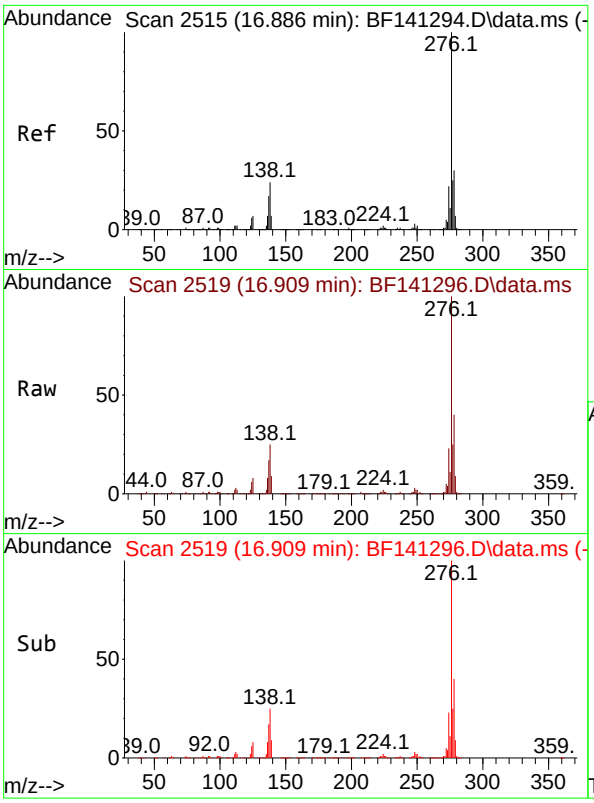


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:264 Resp: 265921

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	27.8
265	21.5	16.7	25.1

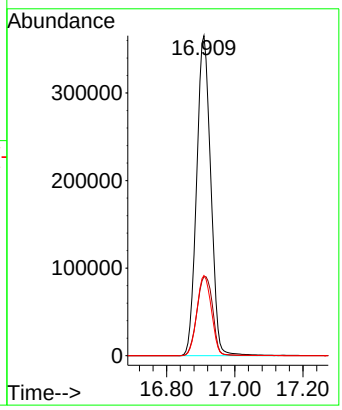




#87
Indeno(1,2,3-cd)pyrene
Concen: 61.732 ng
RT: 16.909 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:276 Resp: 105498

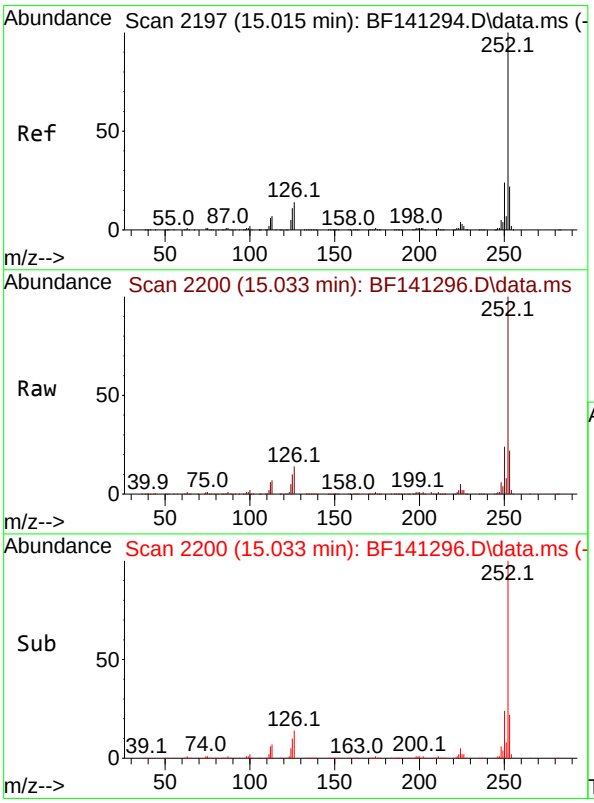
Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.7	32.5
277	25.8	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

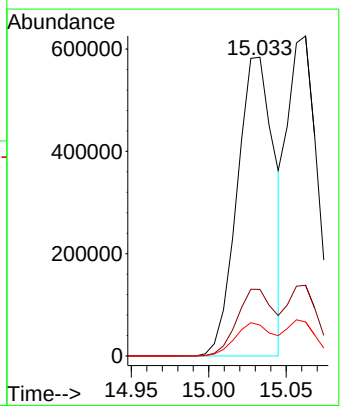
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

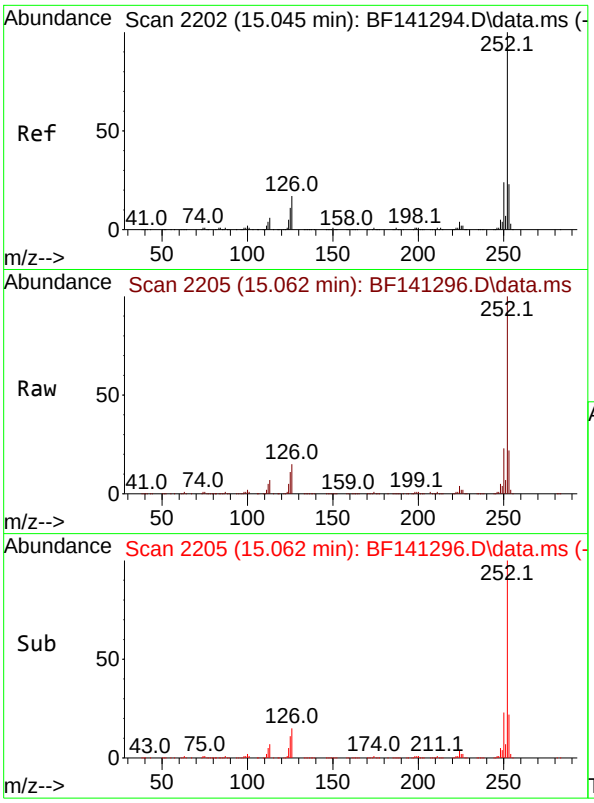


#88
Benzo(b)fluoranthene
Concen: 56.615 ng
RT: 15.033 min Scan# 2200
Delta R.T. 0.018 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:252 Resp: 971433

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.2
125	10.3	8.6	12.8

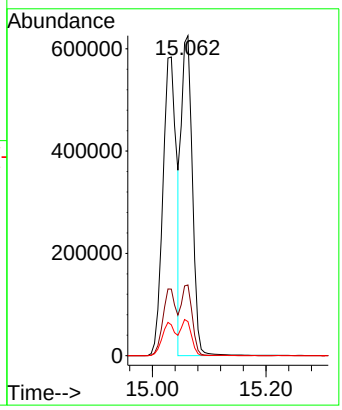




#89
Benzo(k)fluoranthene
Concen: 55.934 ng
RT: 15.062 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:252 Resp: 84584

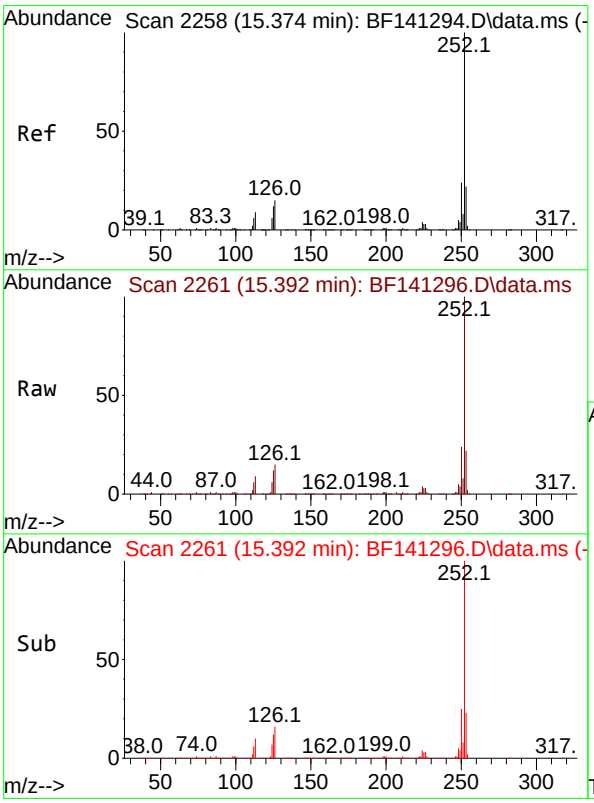
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	10.6	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

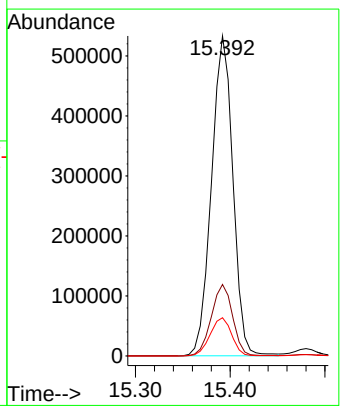
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

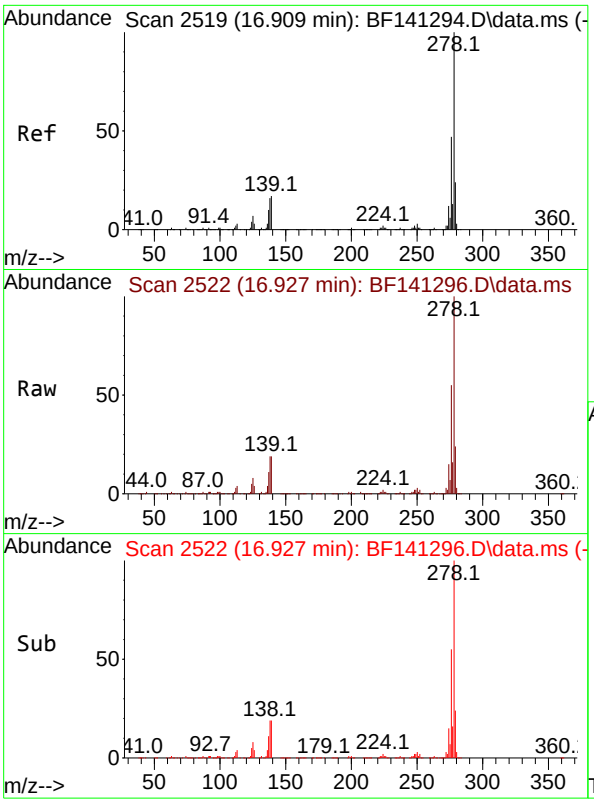


#90
Benzo(a)pyrene
Concen: 58.588 ng
RT: 15.392 min Scan# 2261
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:252 Resp: 838283

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.2	25.8
125	12.0	9.4	14.2

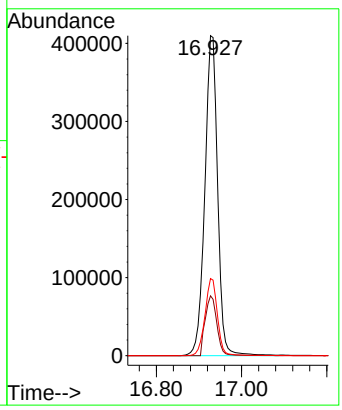




#91
Dibenzo(a,h)anthracene
Concen: 62.119 ng
RT: 16.927 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:278 Resp: 85421

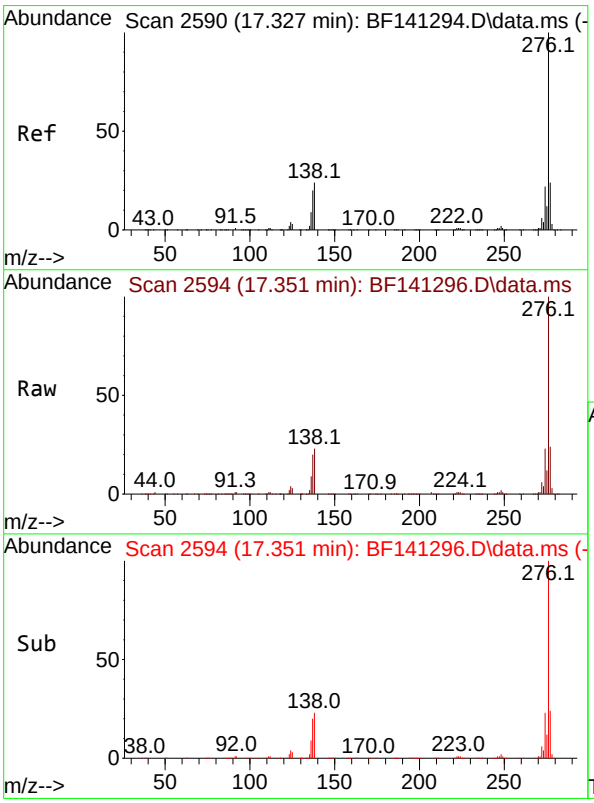
Ion	Ratio	Lower	Upper
278	100		
139	18.7	13.9	20.9
279	24.1	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

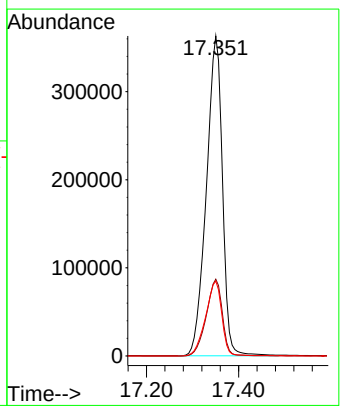
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 61.510 ng
RT: 17.351 min Scan# 2594
Delta R.T. 0.018 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:276 Resp: 881804

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	23.4	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141297.D
Acq On : 29 Jan 2025 17:05
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 29 17:32:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:26:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.804	152	129386	20.000	ng		0.00
21) Naphthalene-d8	8.087	136	500219	20.000	ng		0.00
39) Acenaphthene-d10	9.839	164	259556	20.000	ng		0.00
64) Phenanthrene-d10	11.328	188	415634	20.000	ng		0.00
76) Chrysene-d12	13.974	240	216592	20.000	ng		0.00
86) Perylene-d12	15.439	264	271797	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	1203835	140.330	ng		0.00
7) Phenol-d6	6.440	99	1526343	139.796	ng		0.00
23) Nitrobenzene-d5	7.369	82	1396346	145.214	ng		0.00
42) 2,4,6-Tribromophenol	10.634	330	337670	139.281	ng		0.00
45) 2-Fluorobiphenyl	9.163	172	2248567	129.739	ng		0.00
79) Terphenyl-d14	12.916	244	1910783	132.741	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.493	88	274366	73.111	ng		100
3) Pyridine	3.228	79	684346	76.095	ng		99
4) n-Nitrosodimethylamine	3.199	42	399245	77.974	ng		99
6) Aniline	6.469	93	607667	65.185	ng	#	86
8) 2-Chlorophenol	6.593	128	639957	69.519	ng		97
9) Benzaldehyde	6.351	77	376227	58.226	ng		100
10) Phenol	6.451	94	804078	69.411	ng		90
11) bis(2-Chloroethyl)ether	6.546	93	648287	73.535	ng		98
12) 1,3-Dichlorobenzene	6.746	146	704973	69.446	ng		99
13) 1,4-Dichlorobenzene	6.822	146	706528	69.256	ng		99
14) 1,2-Dichlorobenzene	6.975	146	641551	66.867	ng		99
15) Benzyl Alcohol	6.946	79	532270	71.549	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	1092827	70.953	ng		98
17) 2-Methylphenol	7.057	107	545097	73.368	ng		97
18) Hexachloroethane	7.316	117	265593	70.765	ng		97
19) n-Nitroso-di-n-propyla...	7.228	70	452303	69.874	ng		97
20) 3+4-Methylphenols	7.216	107	613997	66.467	ng		96
22) Acetophenone	7.216	105	824220	67.811	ng	#	96
24) Nitrobenzene	7.393	77	716200	71.762	ng		99
25) Isophorone	7.628	82	1229697	74.193	ng		99
26) 2-Nitrophenol	7.704	139	358664	76.912	ng		98
27) 2,4-Dimethylphenol	7.740	122	445560	74.779	ng		99
28) bis(2-Chloroethoxy)met...	7.840	93	767960	72.405	ng		99
29) 2,4-Dichlorophenol	7.945	162	525117	71.573	ng		100
30) 1,2,4-Trichlorobenzene	8.028	180	584061	69.437	ng		100
31) Naphthalene	8.110	128	1838789	68.107	ng		99
32) Benzoic acid	7.881	122	484583	91.066	ng		99
33) 4-Chloroaniline	8.157	127	636568	69.737	ng		99
34) Hexachlorobutadiene	8.222	225	348822	70.904	ng		99
35) Caprolactam	8.545	113	177093	74.270	ng		99
36) 4-Chloro-3-methylphenol	8.640	107	566827	72.094	ng		98
37) 2-Methylnaphthalene	8.798	142	1165995	67.926	ng		98
38) 1-Methylnaphthalene	8.898	142	1146275	67.988	ng		100
40) 1,2,4,5-Tetrachloroben...	8.963	216	531237	70.756	ng		100
41) Hexachlorocyclopentadiene	8.951	237	180658	83.336	ng		99
43) 2,4,6-Trichlorophenol	9.075	196	360370	73.727	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141297.D
Acq On : 29 Jan 2025 17:05
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 29 17:32:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:26:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	397887	74.958	ng	99
46) 1,1'-Biphenyl	9.263	154	1412015	68.298	ng	99
47) 2-Chloronaphthalene	9.287	162	1118593	69.578	ng	99
48) 2-Nitroaniline	9.381	65	378379	75.652	ng	97
49) Acenaphthylene	9.704	152	1552508	68.901	ng	99
50) Dimethylphthalate	9.569	163	1269770	71.308	ng	100
51) 2,6-Dinitrotoluene	9.628	165	300867	72.992	ng	99
52) Acenaphthene	9.875	154	1120345	69.700	ng	99
53) 3-Nitroaniline	9.798	138	274410	67.215	ng	99
54) 2,4-Dinitrophenol	9.904	184	169946	101.582	ng	99
55) Dibenzofuran	10.045	168	1451668	67.158	ng	98
56) 4-Nitrophenol	9.957	139	230369	78.788	ng	100
57) 2,4-Dinitrotoluene	10.034	165	375659	70.012	ng	93
58) Fluorene	10.392	166	1099129	65.335	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	302300	72.005	ng	98
60) Diethylphthalate	10.269	149	1189833	68.571	ng	99
61) 4-Chlorophenyl-phenyle...	10.381	204	541468	65.968	ng	99
62) 4-Nitroaniline	10.416	138	292019	73.604	ng	99
63) Azobenzene	10.545	77	1206328	69.582	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	217265	89.943	ng	96
66) n-Nitrosodiphenylamine	10.504	169	986121	72.353	ng	100
67) 4-Bromophenyl-phenylether	10.875	248	348615	74.136	ng	97
68) Hexachlorobenzene	10.939	284	361469	72.215	ng	97
69) Atrazine	11.033	200	372792	83.452	ng	99
70) Pentachlorophenol	11.133	266	235030	81.539	ng	99
71) Phenanthrene	11.351	178	1557660	68.257	ng	99
72) Anthracene	11.404	178	1535860	68.749	ng	99
73) Carbazole	11.557	167	1342447	67.630	ng	99
74) Di-n-butylphthalate	11.892	149	1626342	67.604	ng	99
75) Fluoranthene	12.539	202	1463196	64.490	ng	99
77) Benzidine	12.663	184	481470	67.834	ng	99
78) Pyrene	12.769	202	1450076	68.287	ng	100
80) Butylbenzylphthalate	13.392	149	528754	71.721	ng	99
81) Benzo(a)anthracene	13.963	228	1095972	72.323	ng	99
82) 3,3'-Dichlorobenzidine	13.927	252	389044	82.157	ng	99
83) Chrysene	13.998	228	1048083	75.964	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	662151	70.666	ng	99
85) Di-n-octyl phthalate	14.586	149	1171131	82.148	ng	99
87) Indeno(1,2,3-cd)pyrene	16.898	276	1399119	79.715	ng	100
88) Benzo(b)fluoranthene	15.021	252	1235245	71.102	ng	100
89) Benzo(k)fluoranthene	15.051	252	1146296	75.010	ng	100
90) Benzo(a)pyrene	15.380	252	1098491	75.410	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	1117397	79.035	ng	99
92) Benzo(g,h,i)perylene	17.345	276	1155250	78.512	ng	100

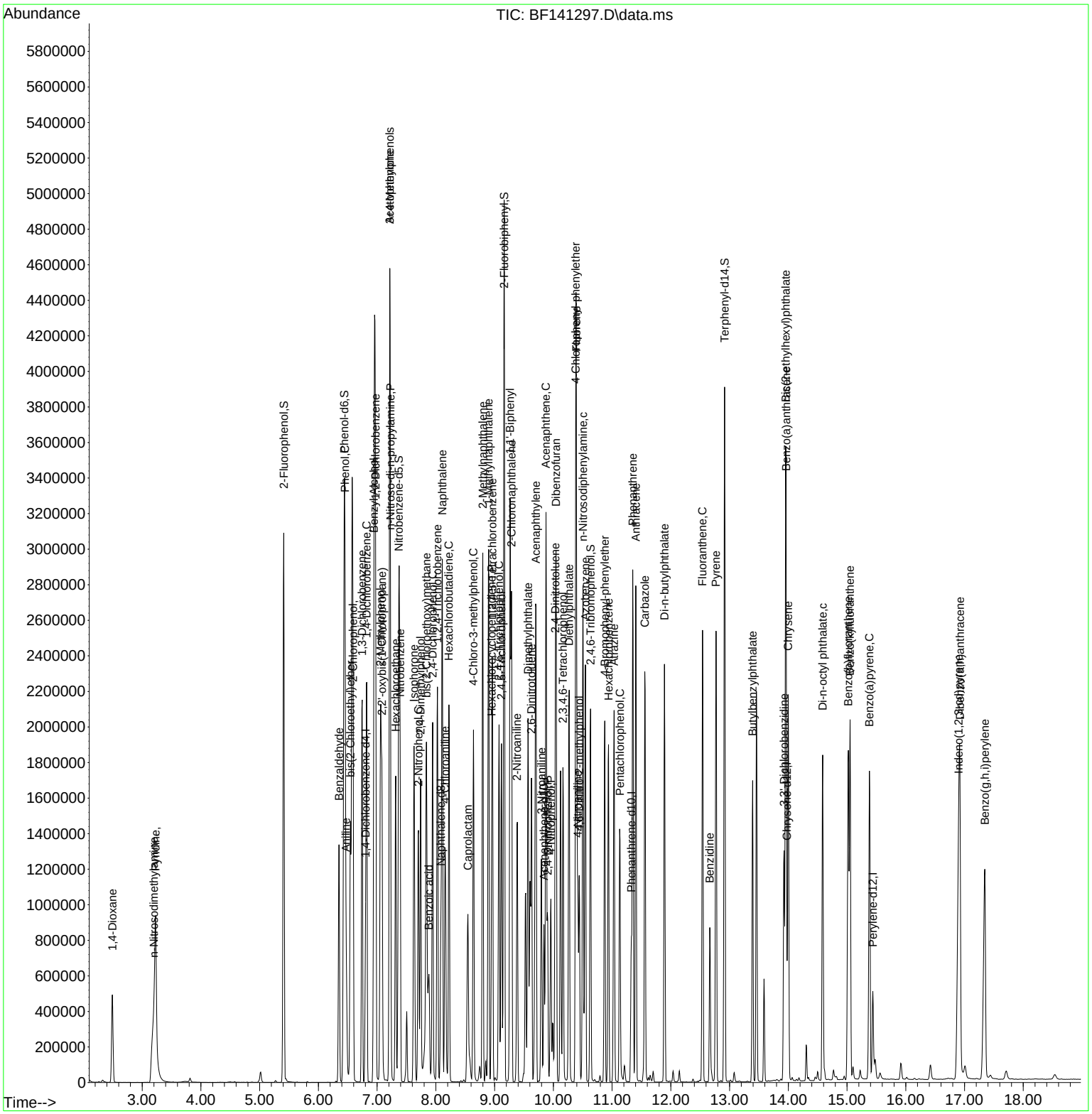
(#) = qualifier out of range (m) = manual integration (+) = signals summed

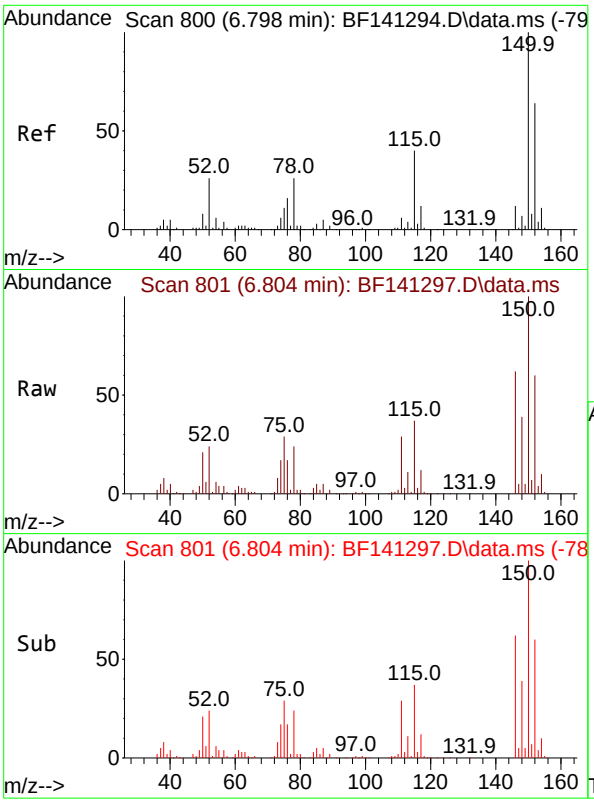
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141297.D
Acq On : 29 Jan 2025 17:05
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 29 17:32:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:26:12 2025
Response via : Initial Calibration



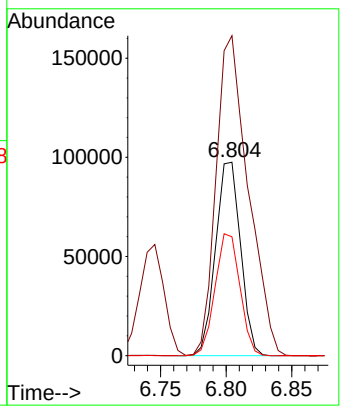


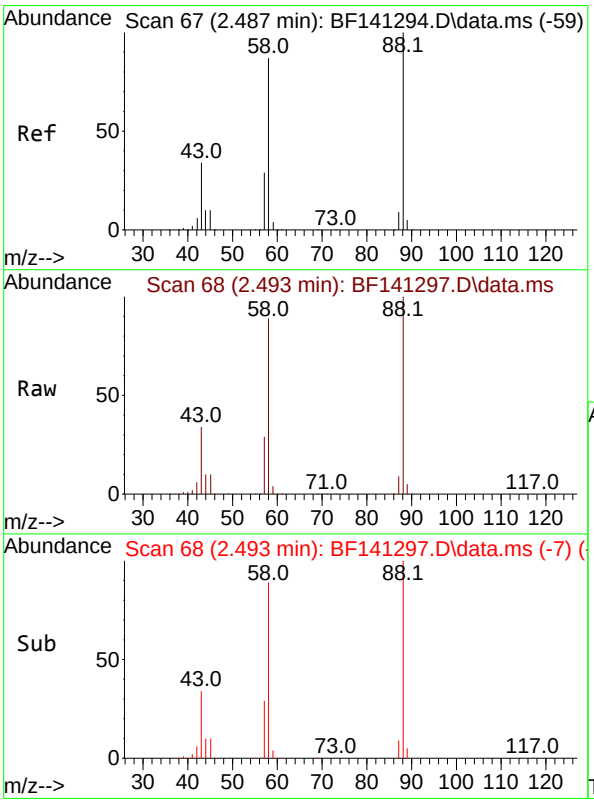
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 129386

Ion	Ratio	Lower	Upper
152	100		
150	165.5	125.9	188.9
115	61.4	49.7	74.5

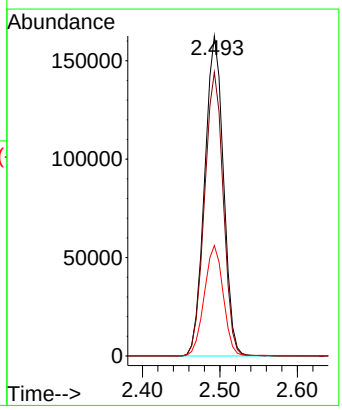


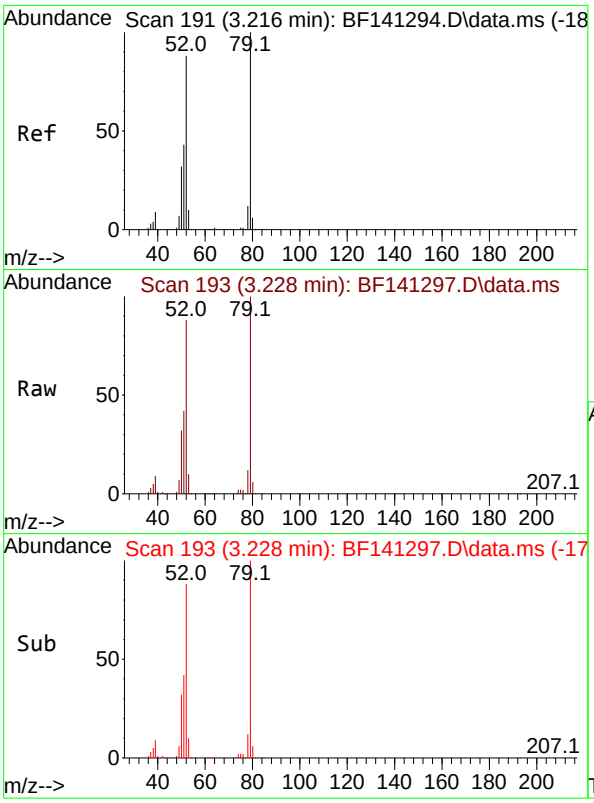


#2
1,4-Dioxane
Concen: 73.111 ng
RT: 2.493 min Scan# 68
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 88 Resp: 274366

Ion	Ratio	Lower	Upper
88	100		
58	88.2	70.2	105.4
43	34.3	27.6	41.4



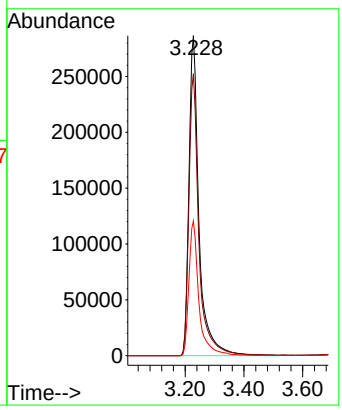


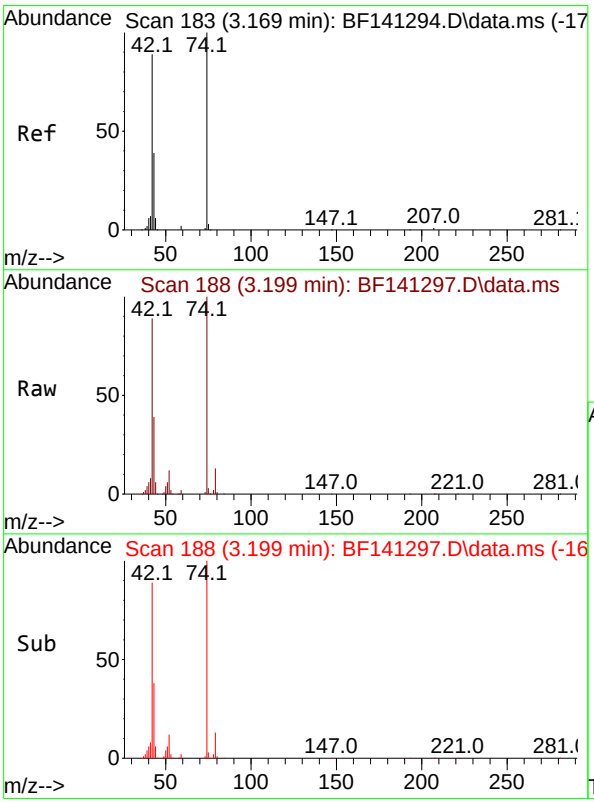
#3
Pyridine
Concen: 76.095 ng
RT: 3.228 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 684346

Ion	Ratio	Lower	Upper
79	100		
52	88.1	70.3	105.5
51	42.1	34.3	51.5

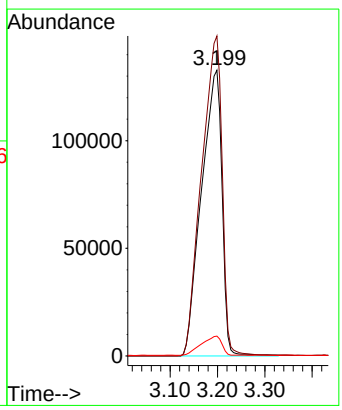


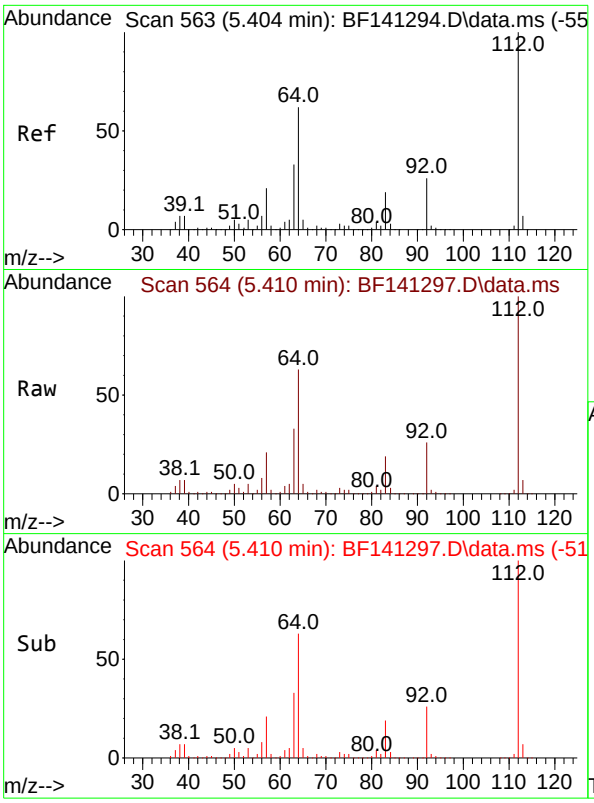


#4
n-Nitrosodimethylamine
Concen: 77.974 ng
RT: 3.199 min Scan# 188
Delta R.T. 0.018 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 42 Resp: 399245

Ion	Ratio	Lower	Upper
42	100		
74	112.0	90.3	135.5
44	6.9	5.7	8.5



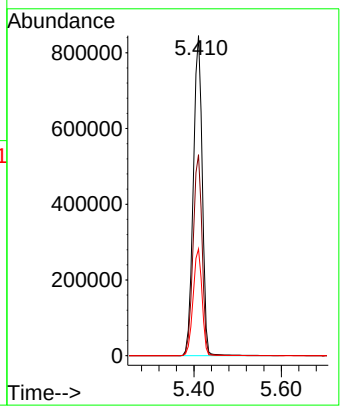


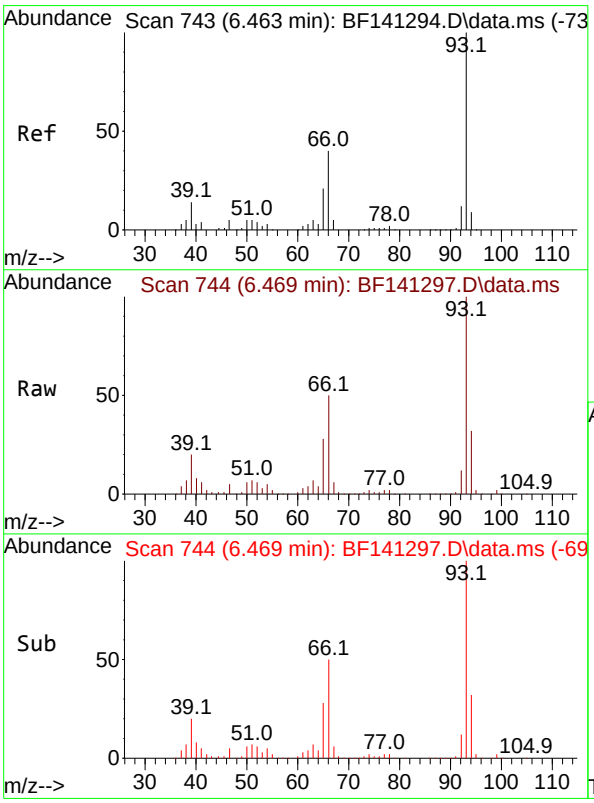
#5
2-Fluorophenol
Concen: 140.330 ng
RT: 5.410 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:112 Resp: 1203835

Ion	Ratio	Lower	Upper
112	100		
64	62.8	49.8	74.8
63	33.4	26.1	39.1

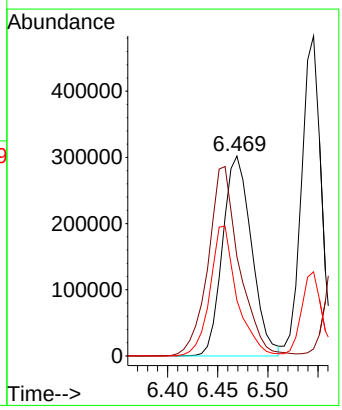


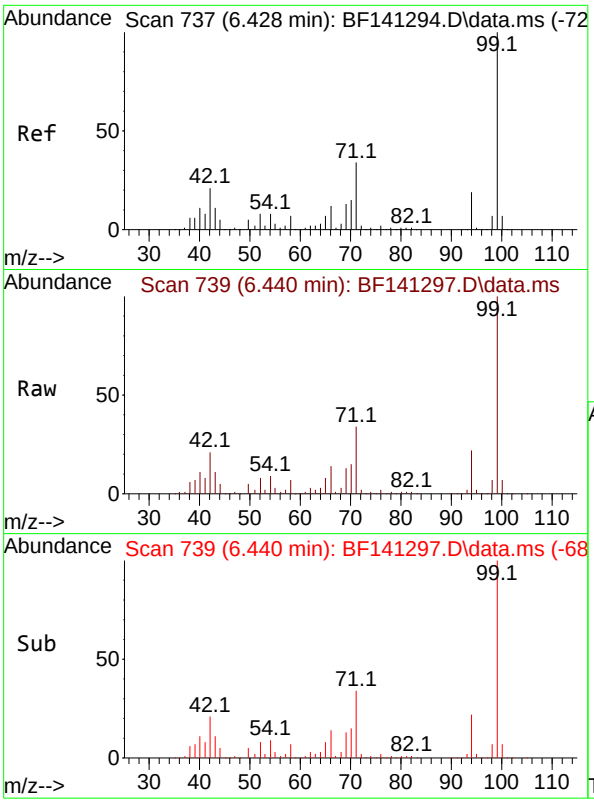


#6
Aniline
Concen: 65.185 ng
RT: 6.469 min Scan# 744
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 93 Resp: 607667

Ion	Ratio	Lower	Upper
93	100		
66	49.7	32.5	48.7#
65	27.8	17.0	25.6#



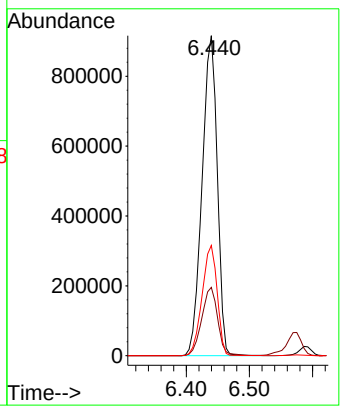


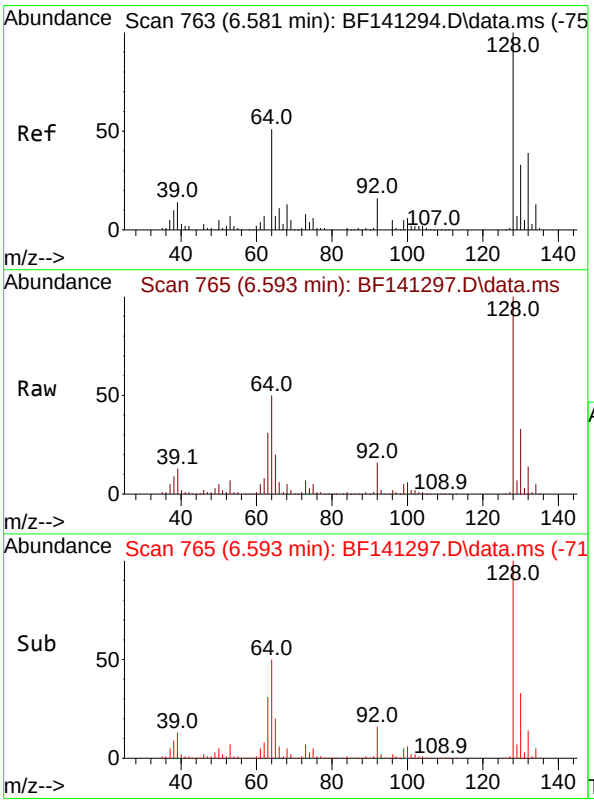
#7
Phenol-d6
Concen: 139.796 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 99 Resp: 1526343

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.1	25.7
71	34.4	26.9	40.3

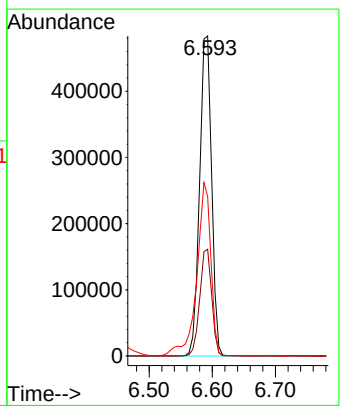


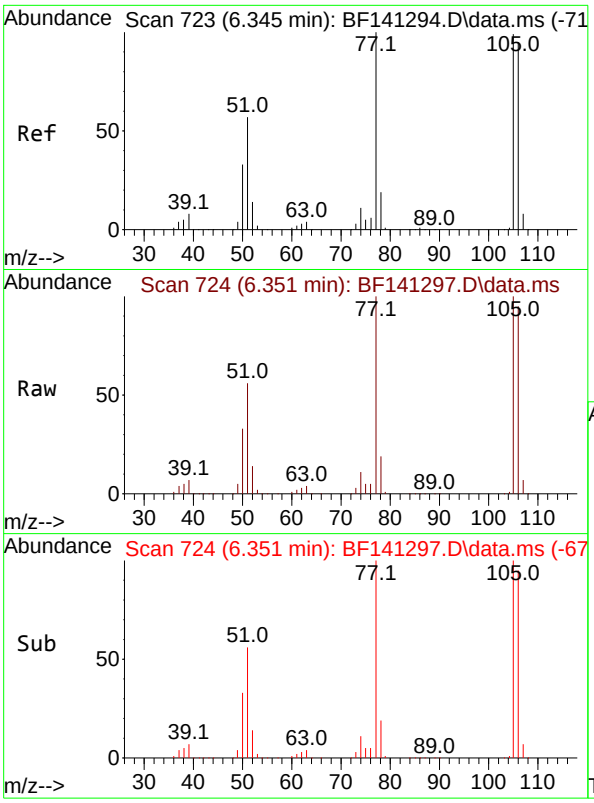


#8
2-Chlorophenol
Concen: 69.519 ng
RT: 6.593 min Scan# 765
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:128 Resp: 639957

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.5	52.5
64	49.8	32.9	72.9



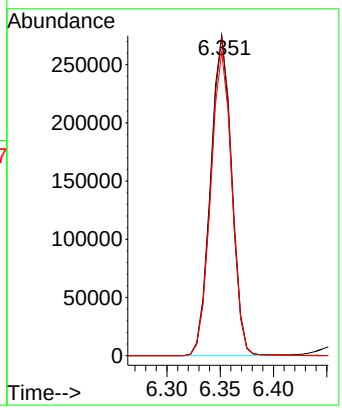


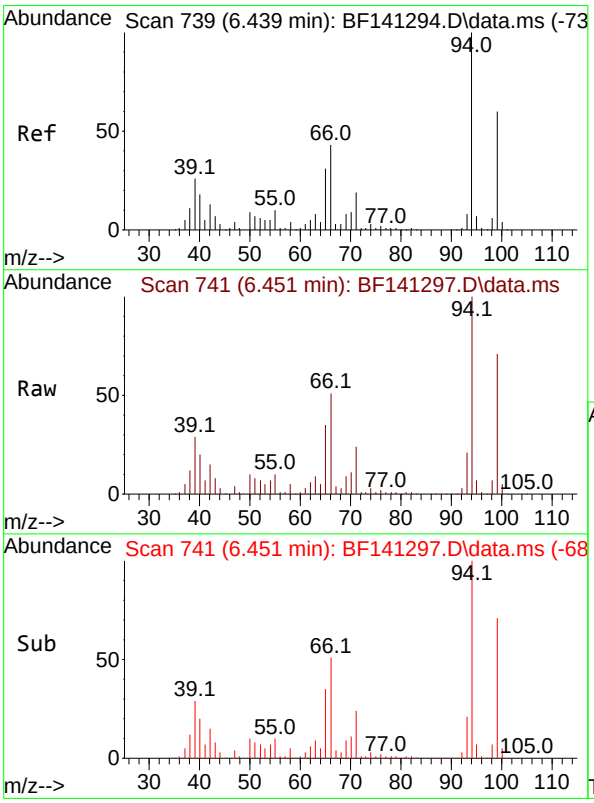
#9
Benzaldehyde
Concen: 58.226 ng
RT: 6.351 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 376227

Ion	Ratio	Lower	Upper
77	100		
105	99.7	79.4	119.4
106	94.9	74.6	114.6

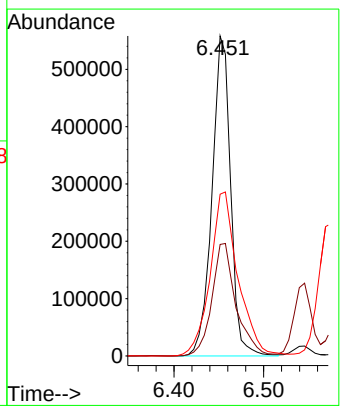


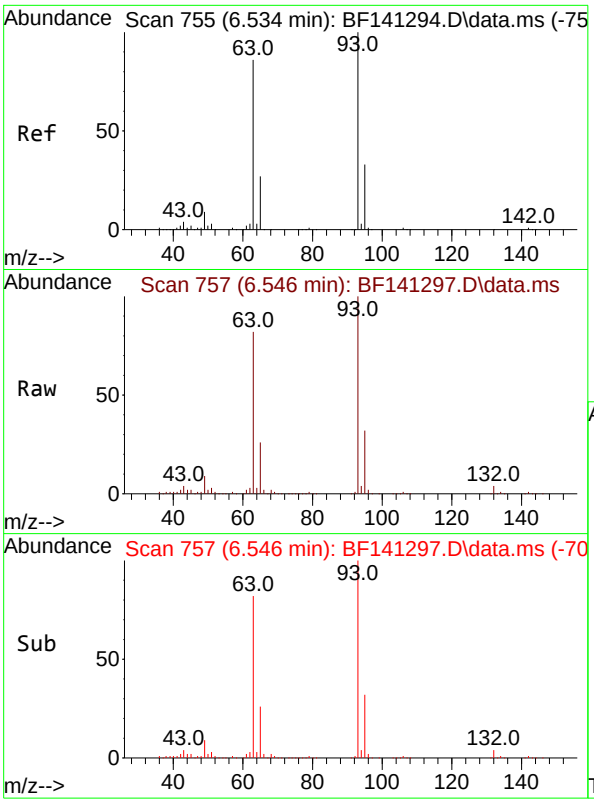


#10
Phenol
Concen: 69.411 ng
RT: 6.451 min Scan# 741
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 94 Resp: 804078

Ion	Ratio	Lower	Upper
94	100		
65	34.9	10.8	50.8
66	50.6	23.3	63.3



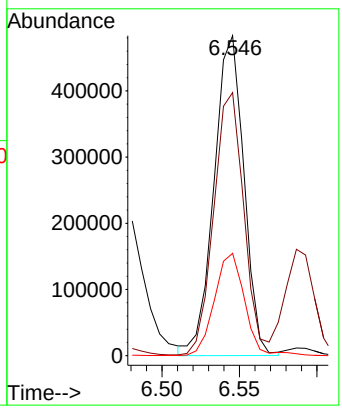


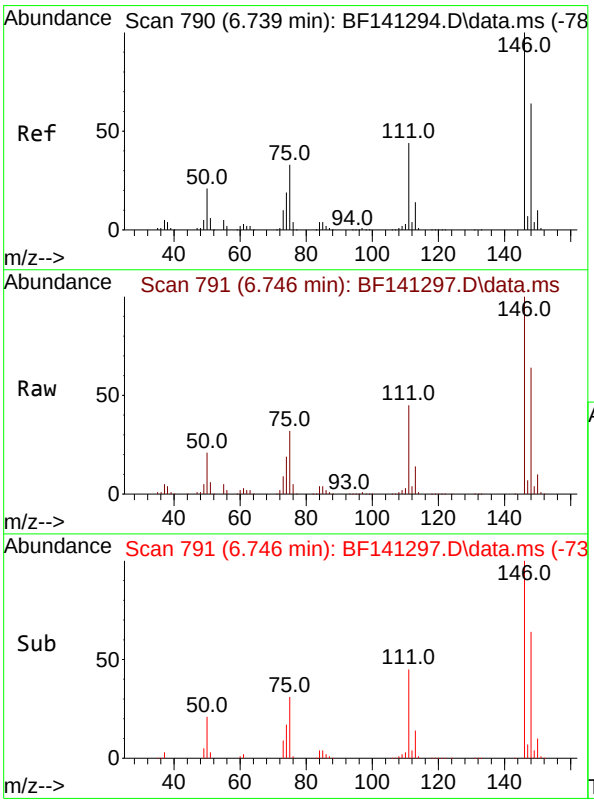
#11
bis(2-Chloroethyl)ether
Concen: 73.535 ng
RT: 6.546 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 93 Resp: 648287

Ion	Ratio	Lower	Upper
93	100		
63	82.2	65.0	105.0
95	32.0	12.4	52.4

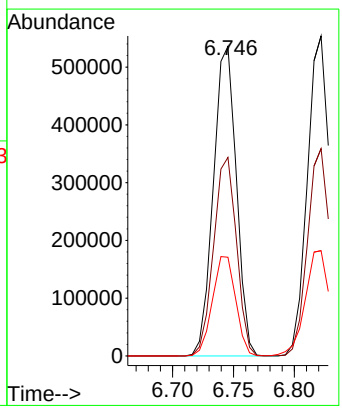


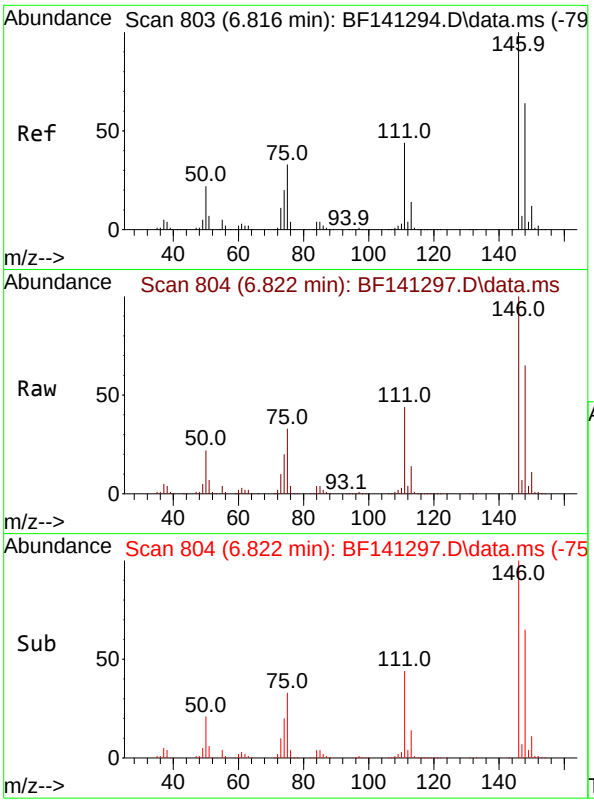


#12
1,3-Dichlorobenzene
Concen: 69.446 ng
RT: 6.746 min Scan# 791
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:146 Resp: 704973

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
75	31.9	26.2	39.4



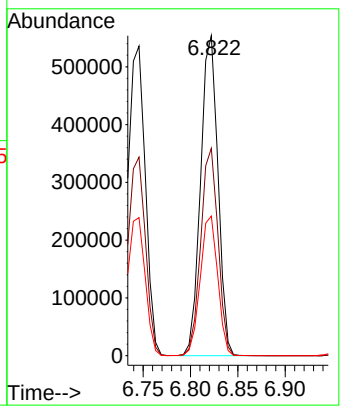


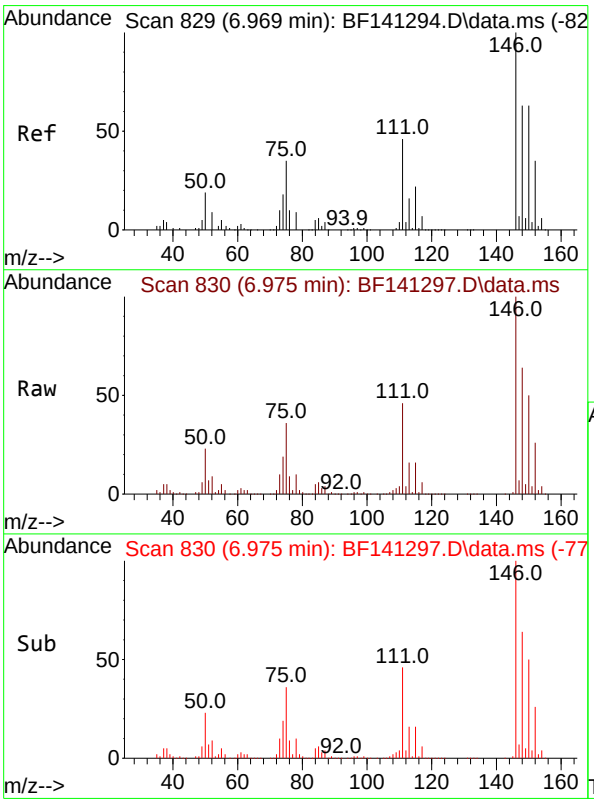
#13
1,4-Dichlorobenzene
Concen: 69.256 ng
RT: 6.822 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:146 Resp: 706528

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.2	76.8
111	43.6	35.0	52.4

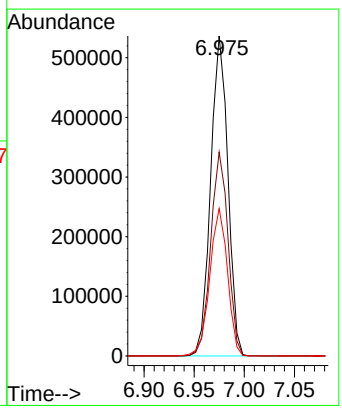


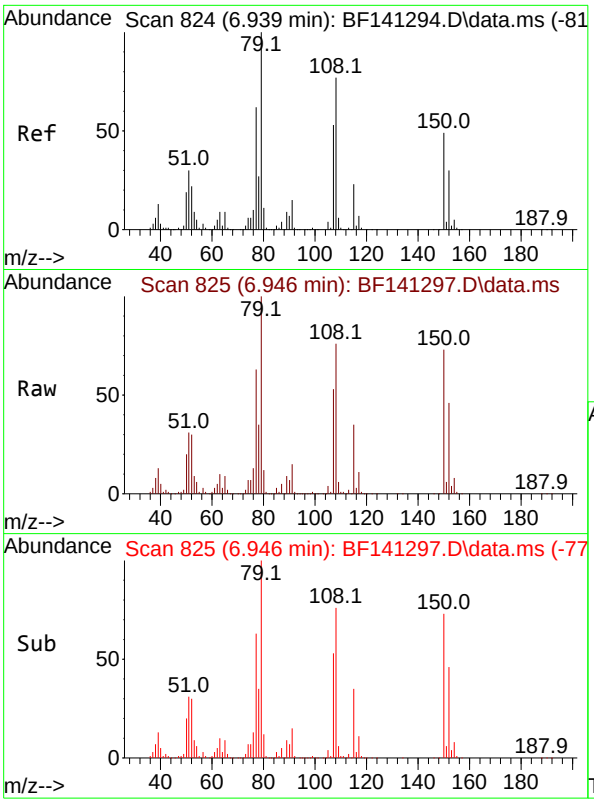


#14
1,2-Dichlorobenzene
Concen: 66.867 ng
RT: 6.975 min Scan# 830
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:146 Resp: 641551

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.5	75.7
111	46.1	36.6	55.0



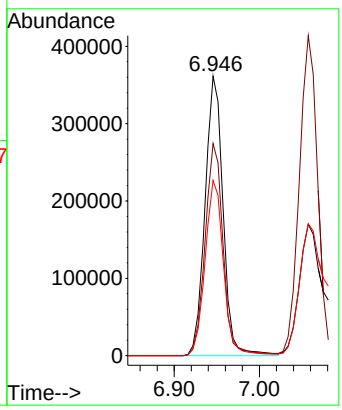


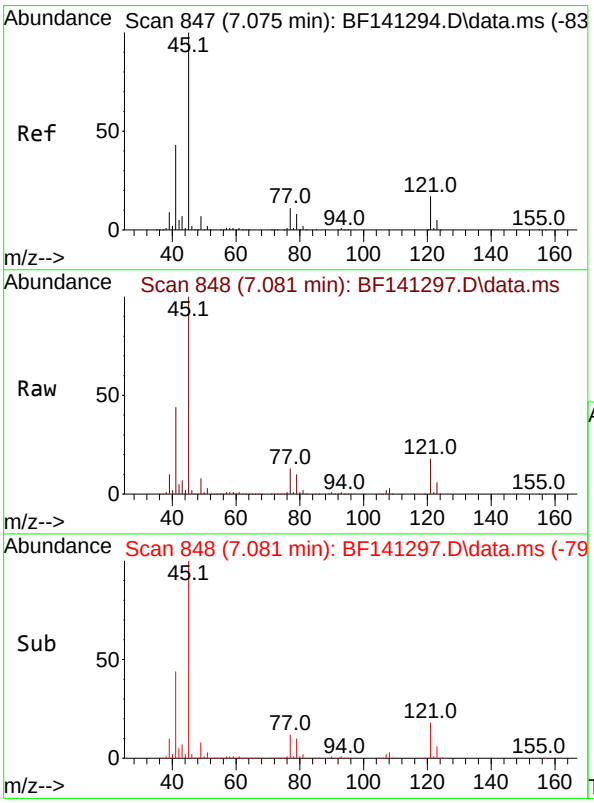
#15
Benzyl Alcohol
Concen: 71.549 ng
RT: 6.946 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 79 Resp: 532270

Ion	Ratio	Lower	Upper
79	100		
108	75.9	61.4	92.0
77	62.7	49.9	74.9

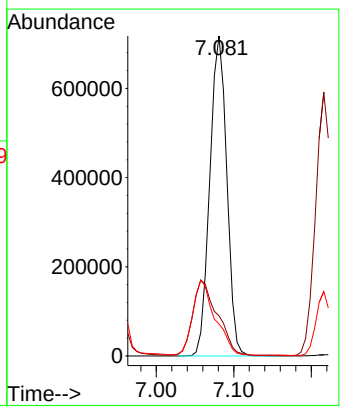


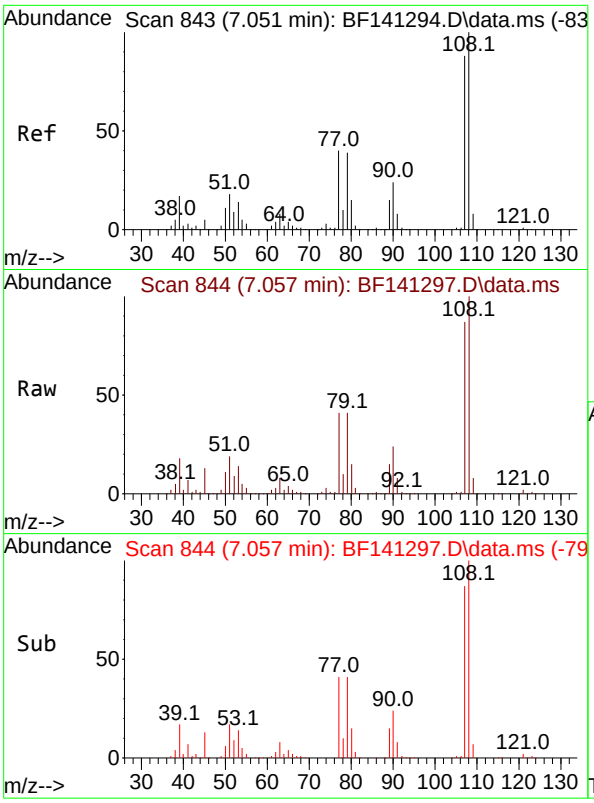


#16
2,2'-oxybis(1-Chloropropane)
Concen: 70.953 ng
RT: 7.081 min Scan# 848
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 45 Resp: 1092827

Ion	Ratio	Lower	Upper
45	100		
77	12.6	0.0	31.8
79	10.0	0.0	29.1



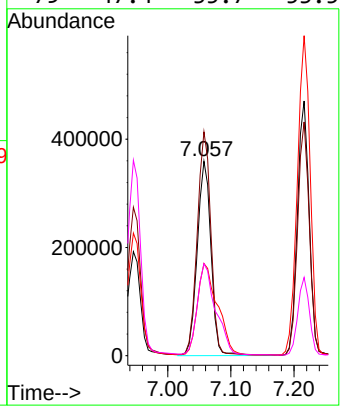


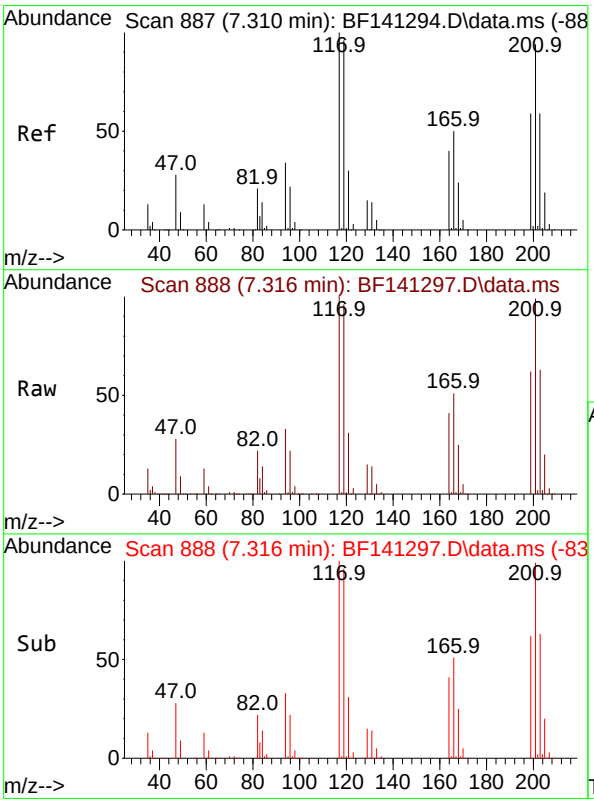
#17
2-Methylphenol
Concen: 73.368 ng
RT: 7.057 min Scan# 84
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:107 Resp: 545097

Ion	Ratio	Lower	Upper
107	100		
108	115.2	90.8	136.2
77	47.5	36.2	54.4
79	47.4	35.7	53.5

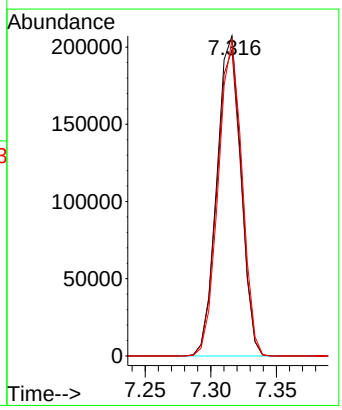


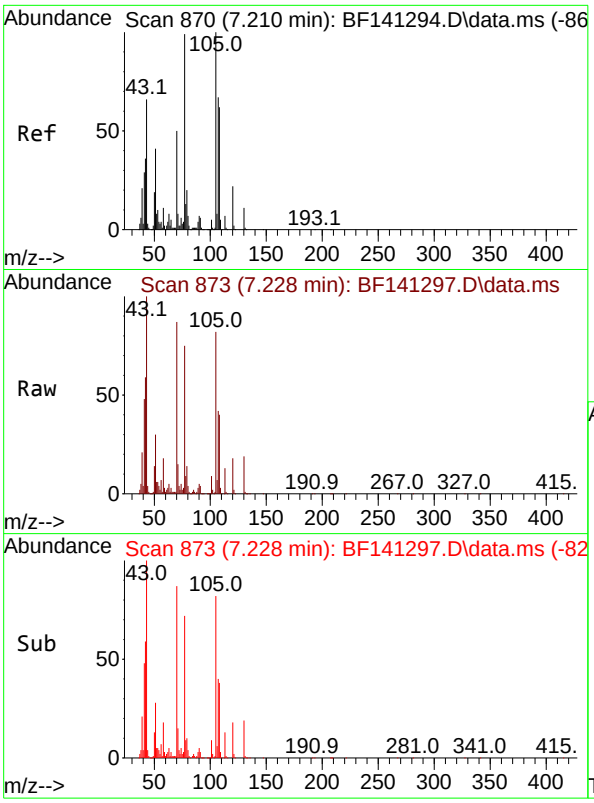


#18
Hexachloroethane
Concen: 70.765 ng
RT: 7.316 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:117 Resp: 265593

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.6	114.8
201	98.6	74.8	112.2



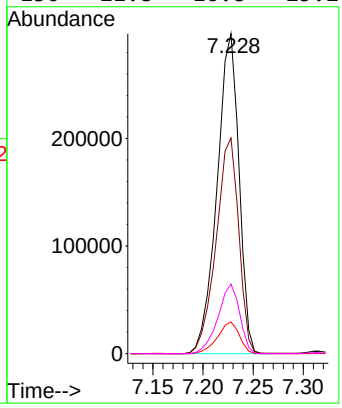


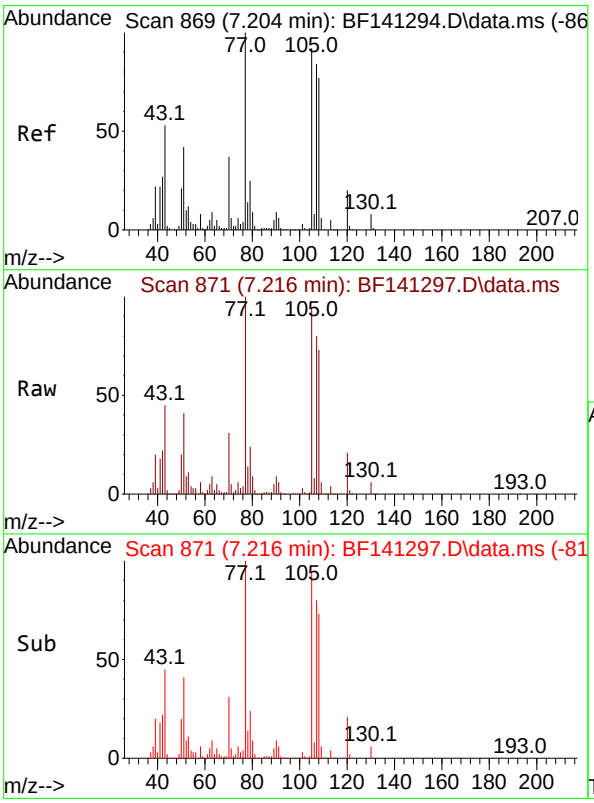
#19
n-Nitroso-di-n-propylamine
Concen: 69.874 ng
RT: 7.228 min Scan# 8
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 70 Resp: 452303

Ion	Ratio	Lower	Upper
70	100		
42	67.4	56.8	85.2
101	9.9	7.7	11.5
130	21.8	16.8	25.2

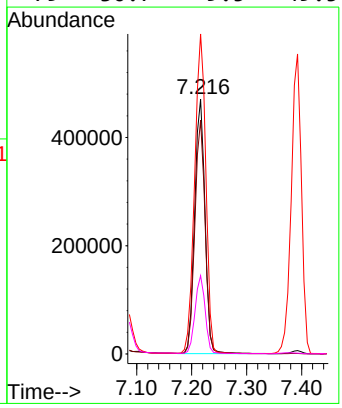


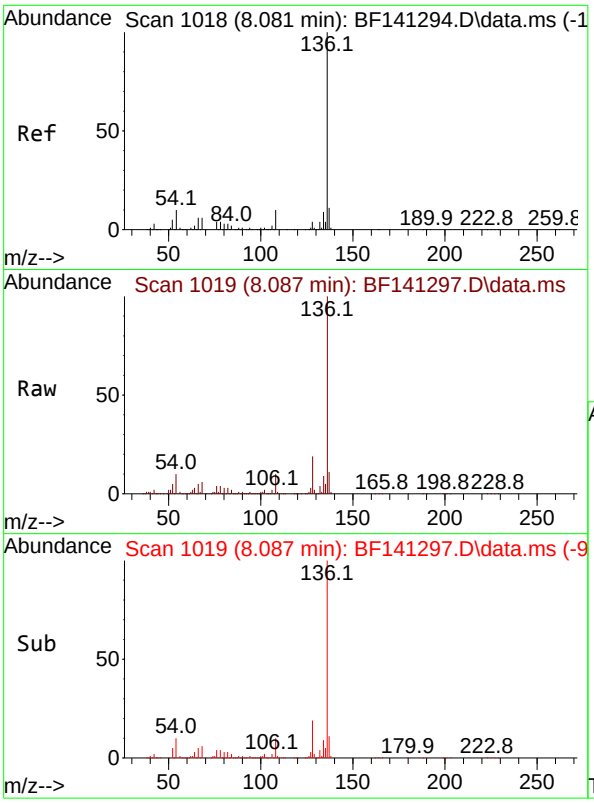


#20
3+4-Methylphenols
Concen: 66.467 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:107 Resp: 613997

Ion	Ratio	Lower	Upper
107	100		
108	91.8	70.9	110.9
77	125.6	98.5	138.5
79	30.7	9.5	49.5



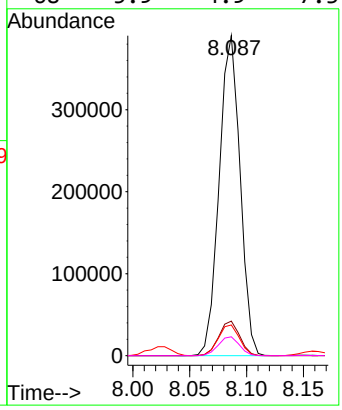


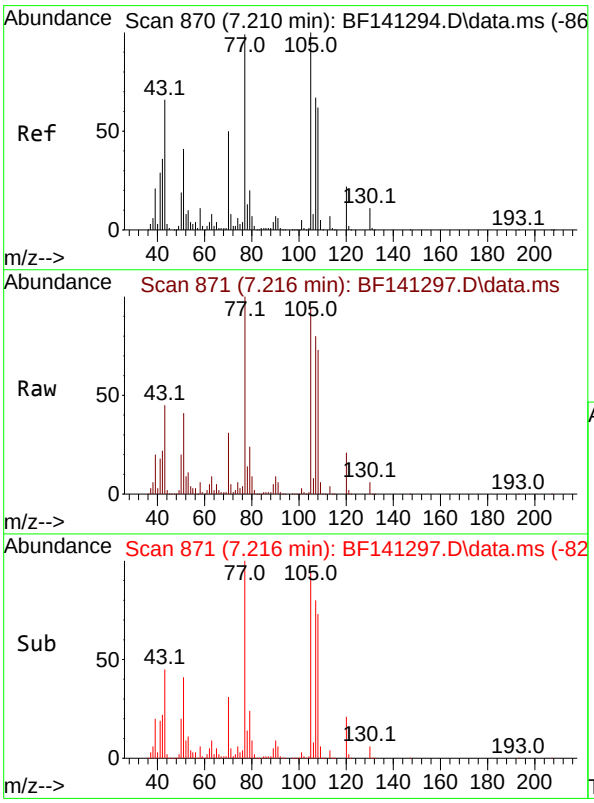
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.087 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:136 Resp: 500219

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.6	7.8	11.8
68	5.9	4.9	7.3

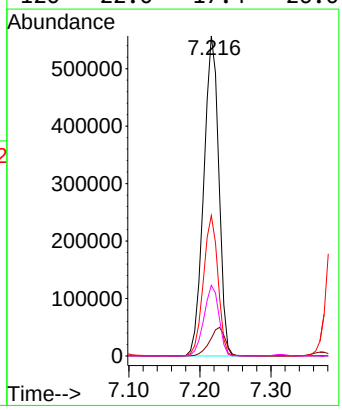


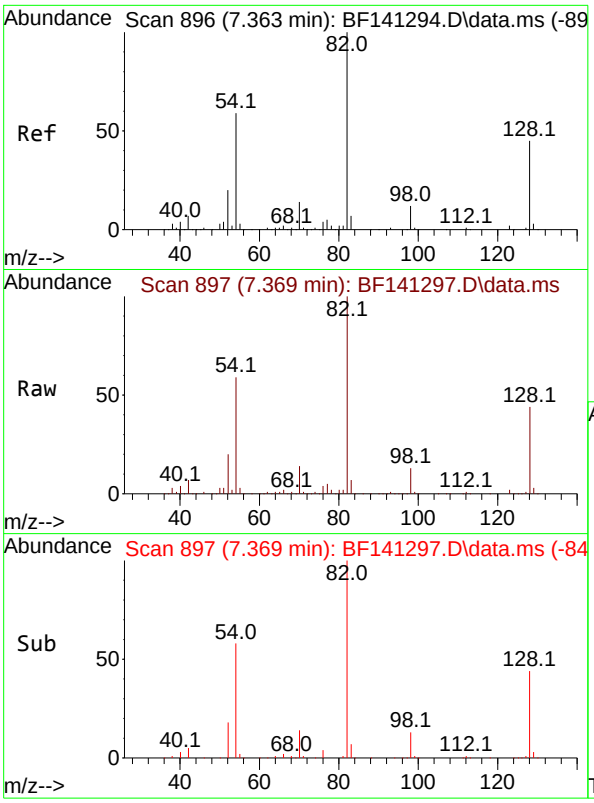


#22
Acetophenone
Concen: 67.811 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:105 Resp: 824220

Ion	Ratio	Lower	Upper
105	100		
71	5.5	6.8	10.2#
51	43.9	32.6	49.0
120	22.0	17.4	26.0



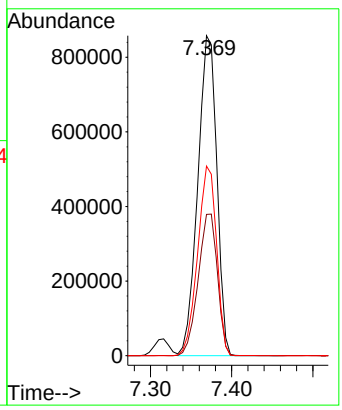


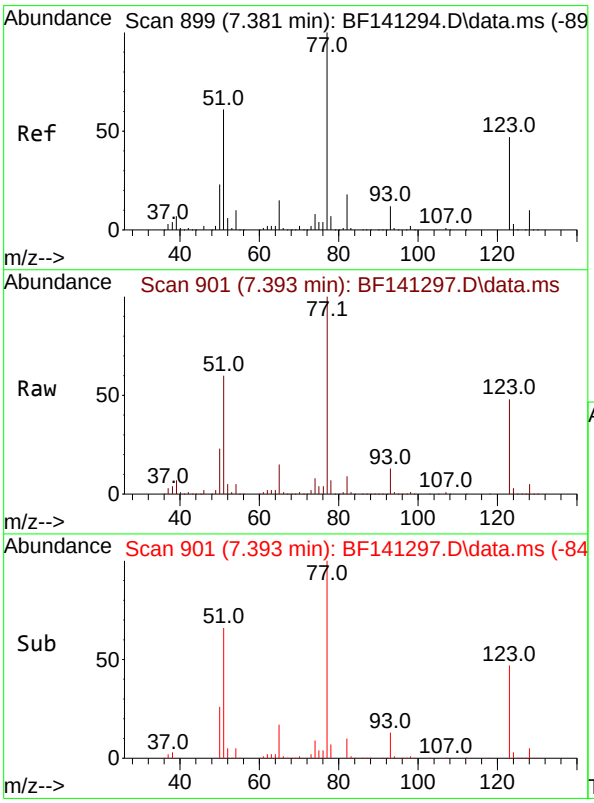
#23
Nitrobenzene-d5
Concen: 145.214 ng
RT: 7.369 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 1396346

Ion	Ratio	Lower	Upper
82	100		
128	44.2	35.7	53.5
54	59.3	47.1	70.7

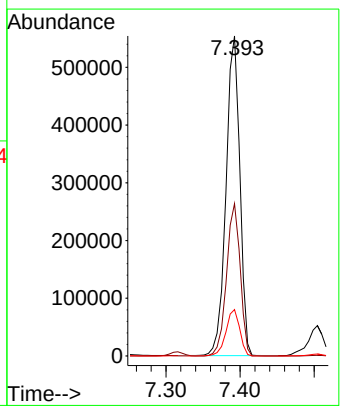


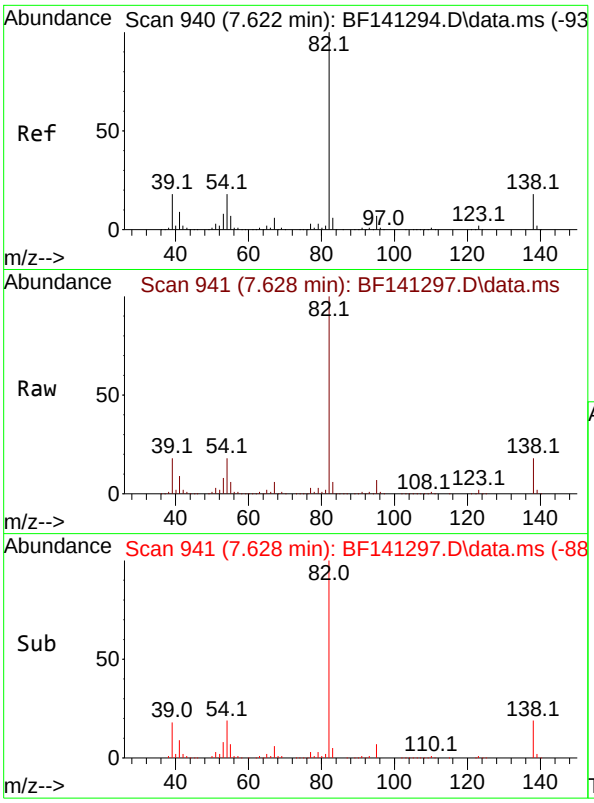


#24
Nitrobenzene
Concen: 71.762 ng
RT: 7.393 min Scan# 901
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 77 Resp: 716200

Ion	Ratio	Lower	Upper
77	100		
123	47.6	37.3	55.9
65	14.5	11.8	17.6



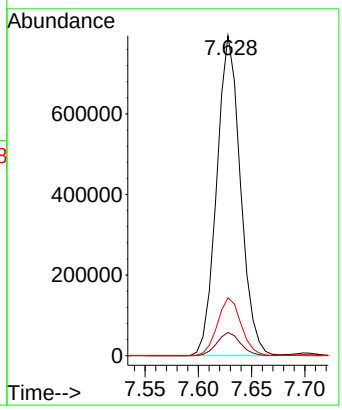


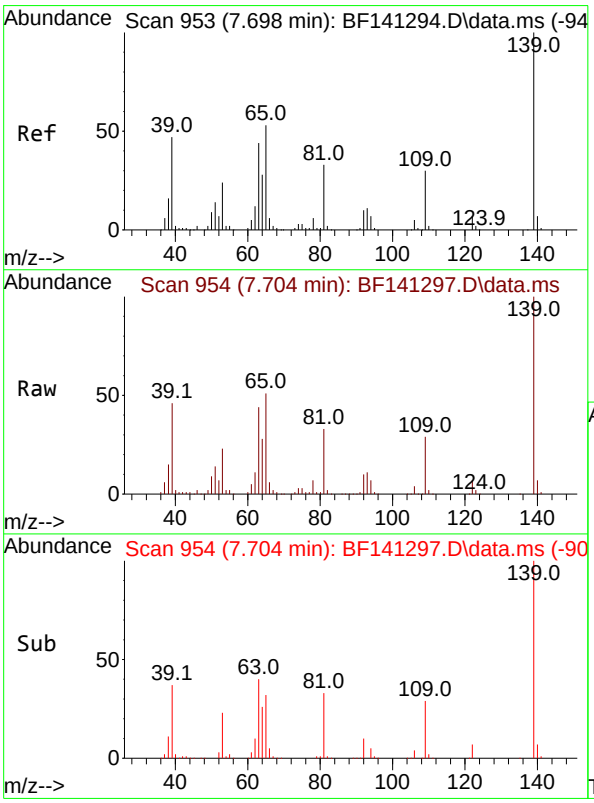
#25
Isophorone
Concen: 74.193 ng
RT: 7.628 min Scan# 94
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 82 Resp: 1229697

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.6
138	18.1	14.7	22.1

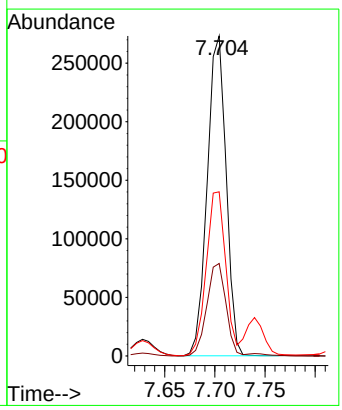


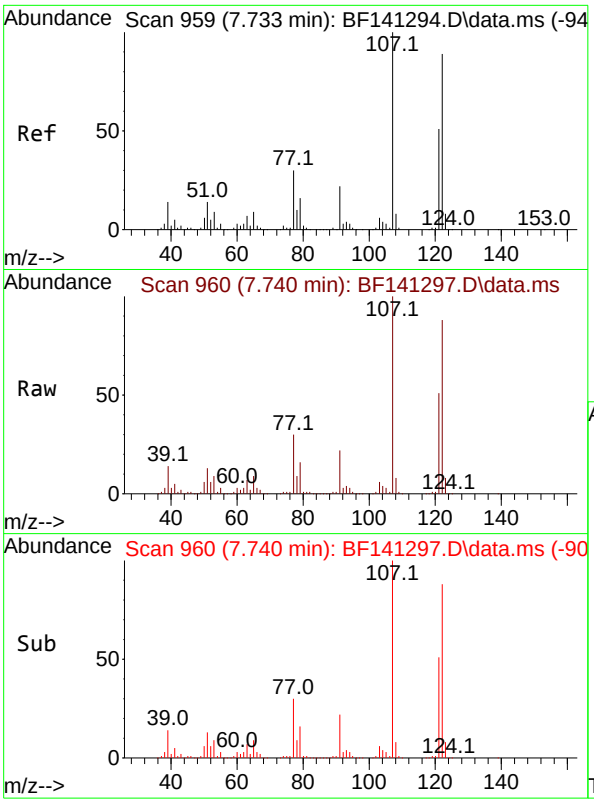


#26
2-Nitrophenol
Concen: 76.912 ng
RT: 7.704 min Scan# 954
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:139 Resp: 358664

Ion	Ratio	Lower	Upper
139	100		
109	28.9	23.8	35.6
65	51.3	42.2	63.4



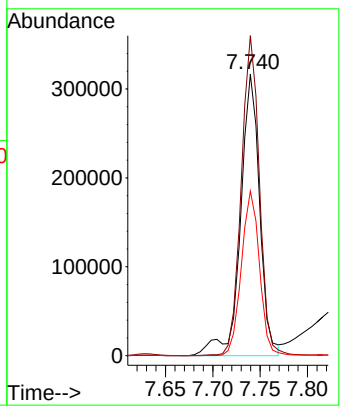


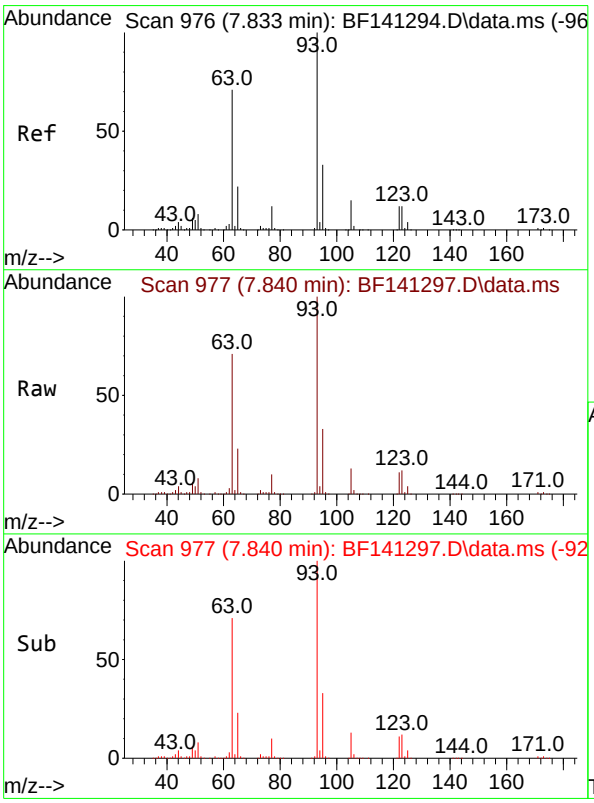
#27
2,4-Dimethylphenol
Concen: 74.779 ng
RT: 7.740 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:122 Resp: 445560

Ion	Ratio	Lower	Upper
122	100		
107	113.7	89.9	134.9
121	58.5	46.1	69.1

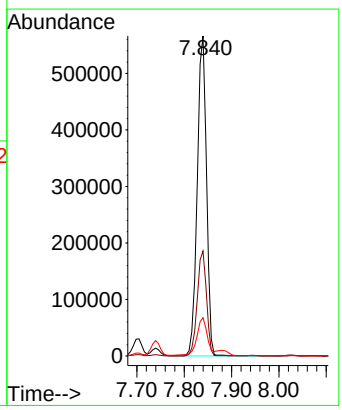


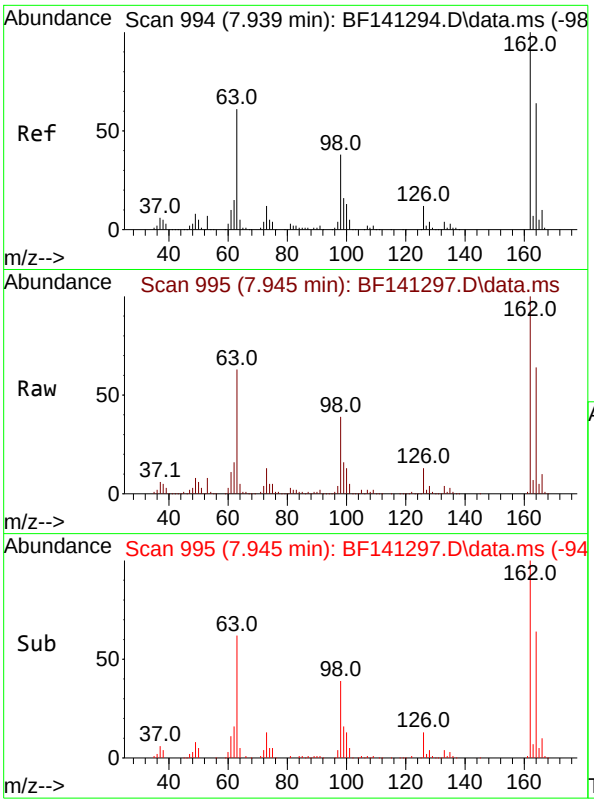


#28
bis(2-Chloroethoxy)methane
Concen: 72.405 ng
RT: 7.840 min Scan# 977
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 93 Resp: 767960

Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.2	39.2
123	12.0	10.2	15.4



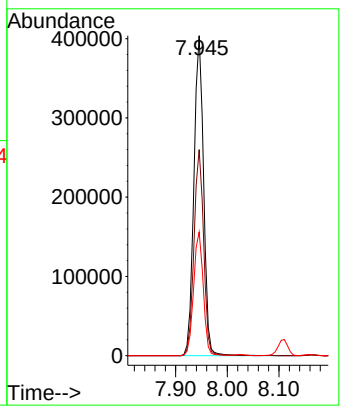


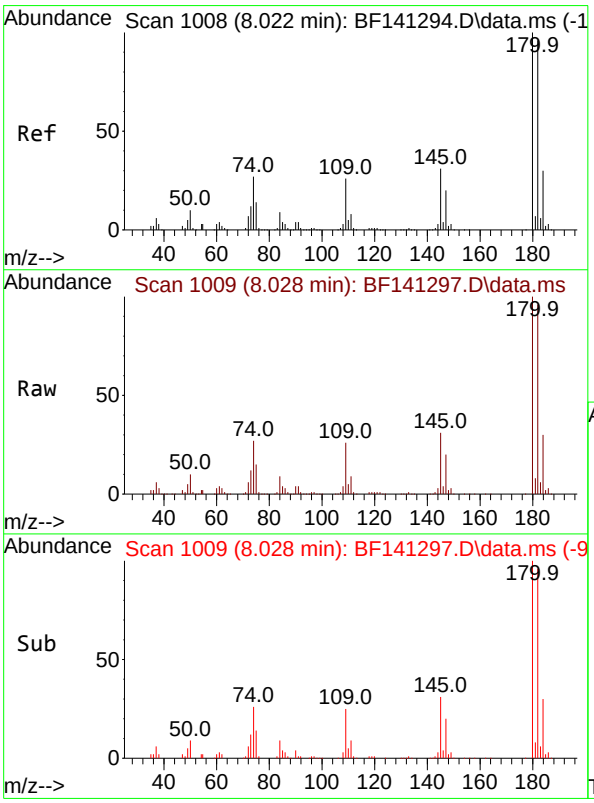
#29
2,4-Dichlorophenol
Concen: 71.573 ng
RT: 7.945 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 525117

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.2	84.2
98	38.6	18.2	58.2

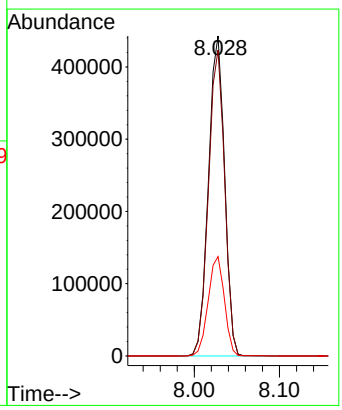


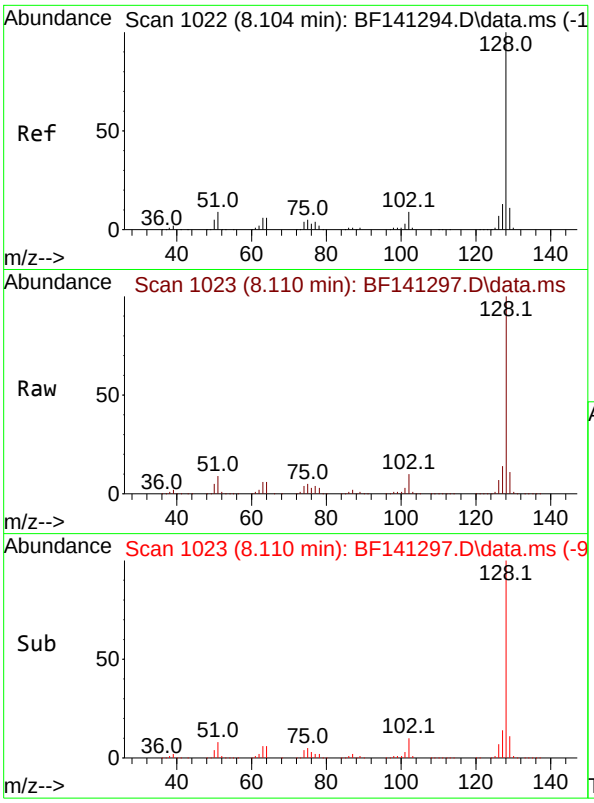


#30
1,2,4-Trichlorobenzene
Concen: 69.437 ng
RT: 8.028 min Scan# 1009
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:180 Resp: 584061

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.4	114.6
145	31.0	24.9	37.3



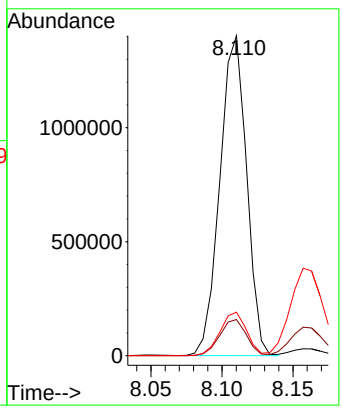


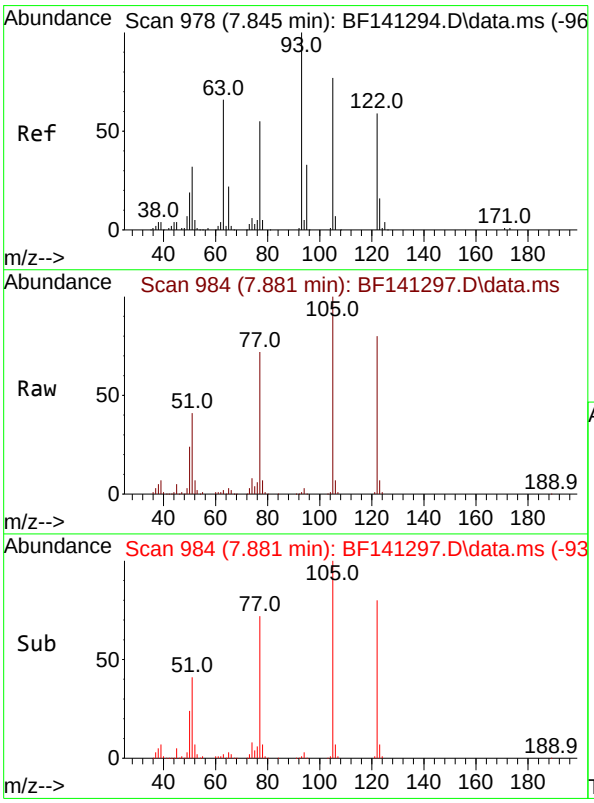
#31
Naphthalene
Concen: 68.107 ng
RT: 8.110 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:128 Resp: 1838789

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.6	10.6	15.8

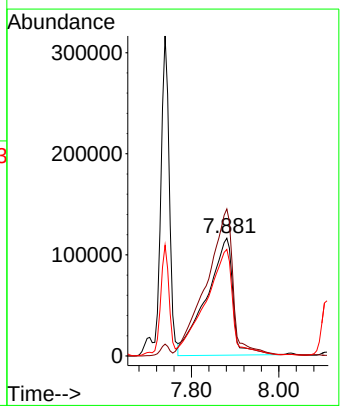


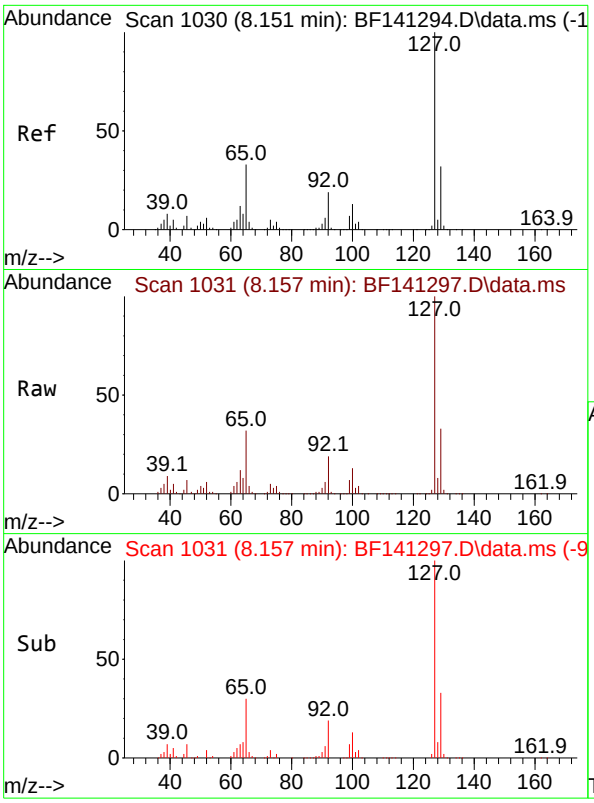


#32
Benzoic acid
Concen: 91.066 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.018 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:122 Resp: 484583

Ion	Ratio	Lower	Upper
122	100		
105	124.8	103.4	143.4
77	90.5	70.9	110.9



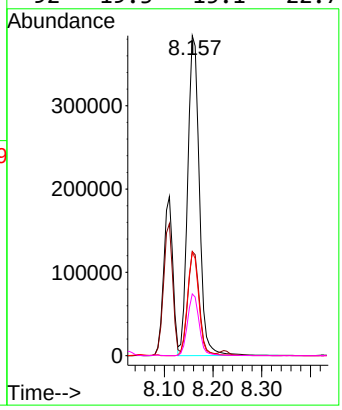


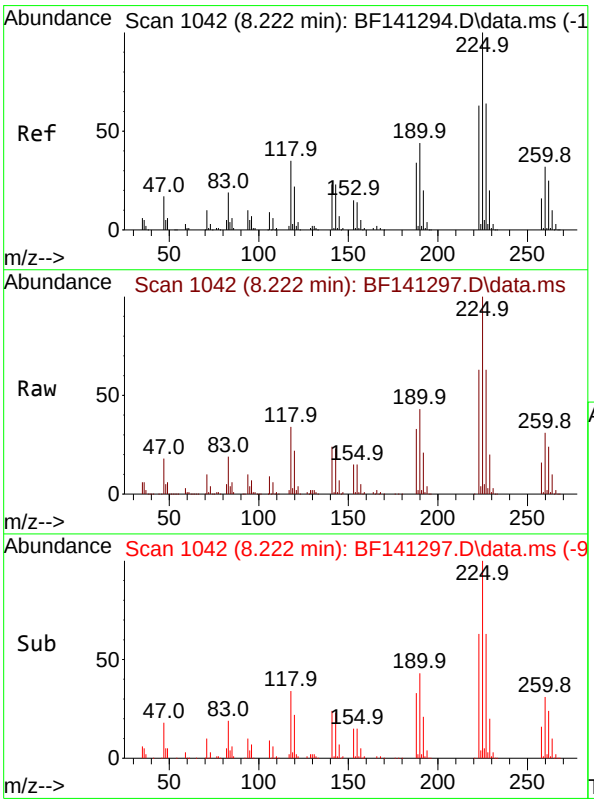
#33
4-Chloroaniline
Concen: 69.737 ng
RT: 8.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:127 Resp: 636568

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.7	38.5
65	32.4	26.4	39.6
92	19.3	15.1	22.7

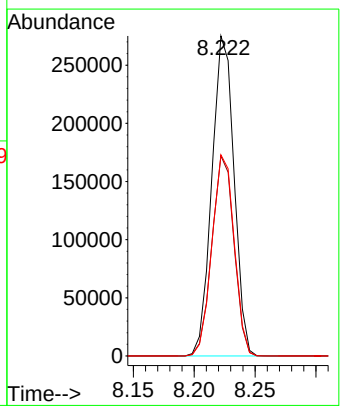


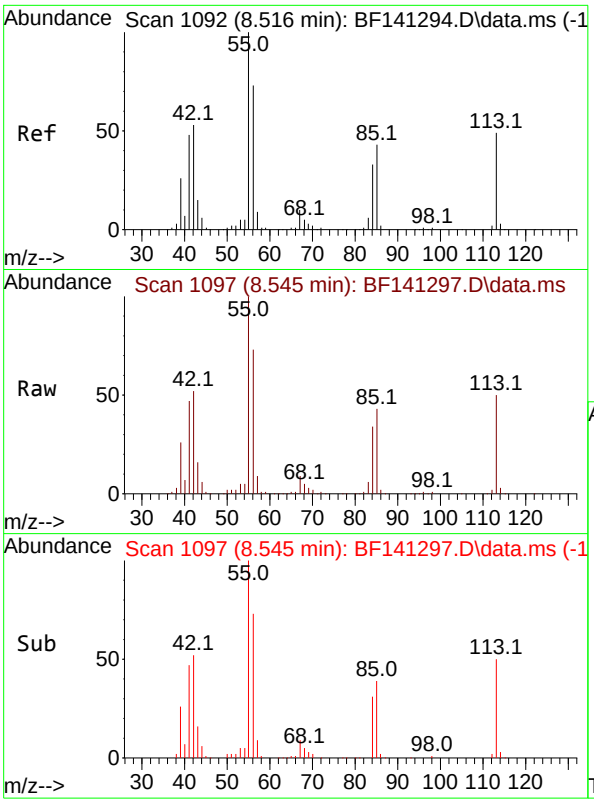


#34
Hexachlorobutadiene
Concen: 70.904 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:225 Resp: 348822

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.4	75.6
227	62.9	51.3	76.9



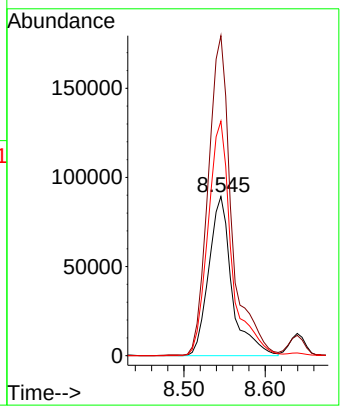


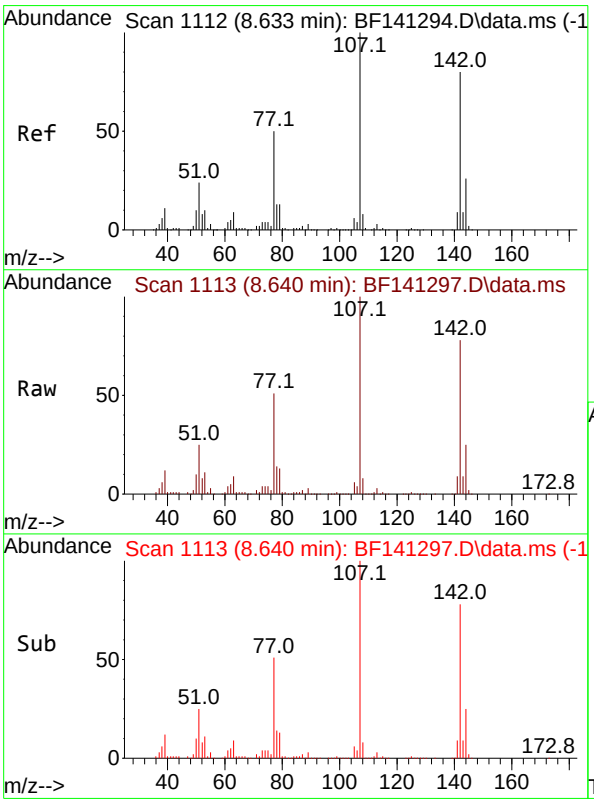
#35
Caprolactam
Concen: 74.270 ng
RT: 8.545 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:113 Resp: 177093

Ion	Ratio	Lower	Upper
113	100		
55	201.0	182.9	222.9
56	147.3	127.9	167.9

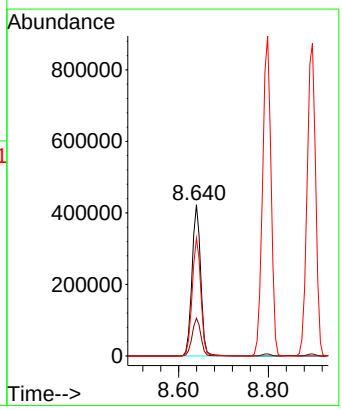


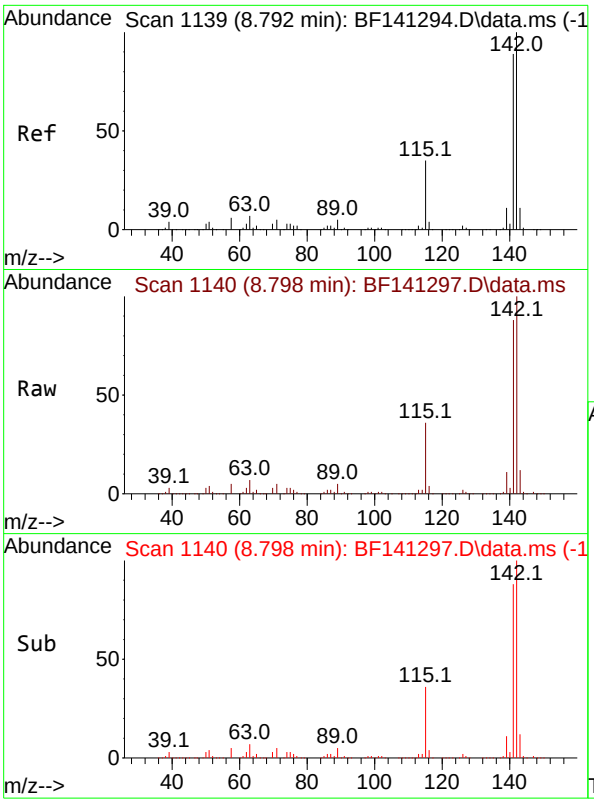


#36
4-Chloro-3-methylphenol
Concen: 72.094 ng
RT: 8.640 min Scan# 1113
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:107 Resp: 566827

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.7	31.1
142	77.9	63.8	95.8



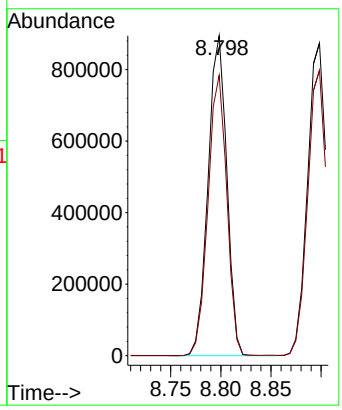


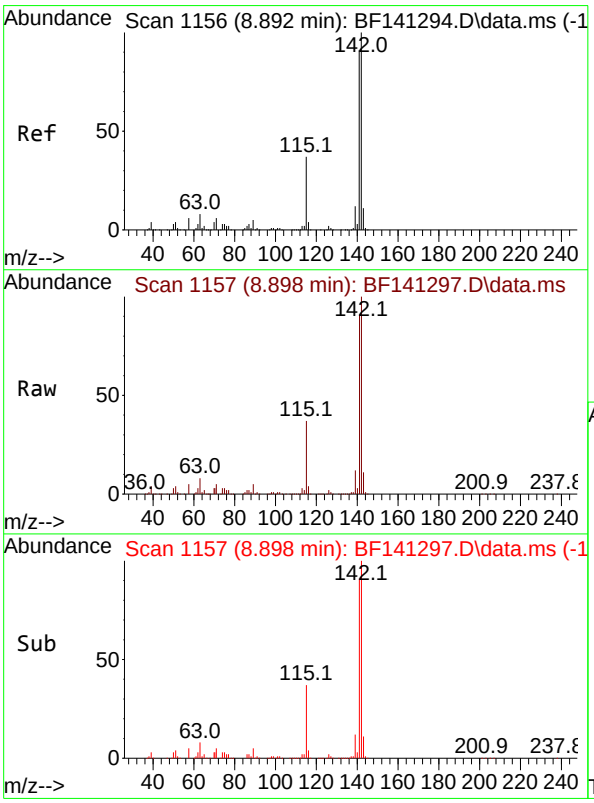
#37
2-Methylnaphthalene
Concen: 67.926 ng
RT: 8.798 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:142 Resp: 1165995

Ion	Ratio	Lower	Upper
142	100		
141	87.6	71.3	106.9

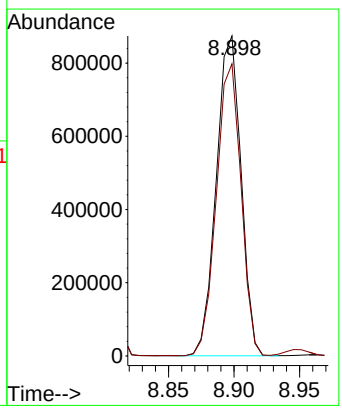


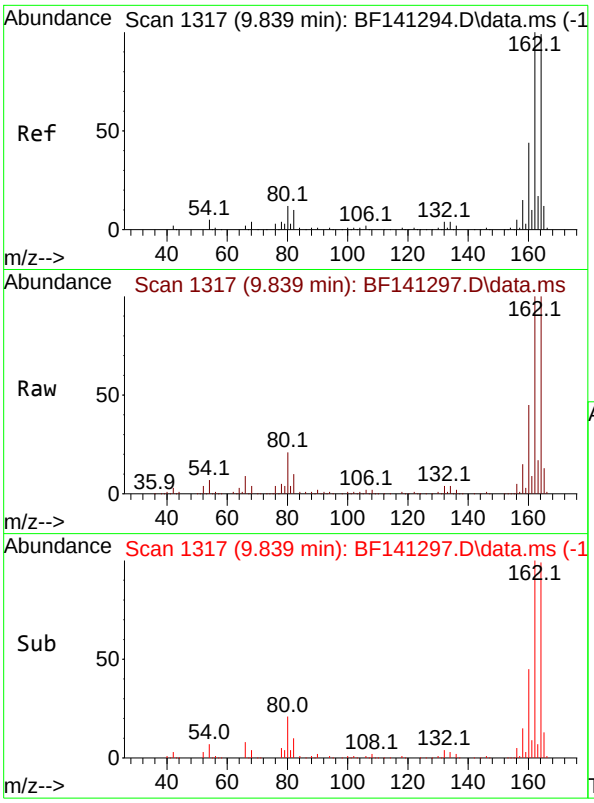


#38
1-Methylnaphthalene
Concen: 67.988 ng
RT: 8.898 min Scan# 1157
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:142 Resp: 1146275

Ion	Ratio	Lower	Upper
142	100		
141	91.3	73.2	109.8



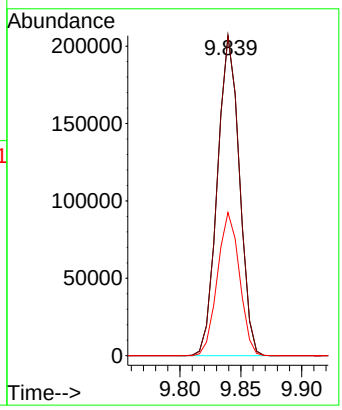


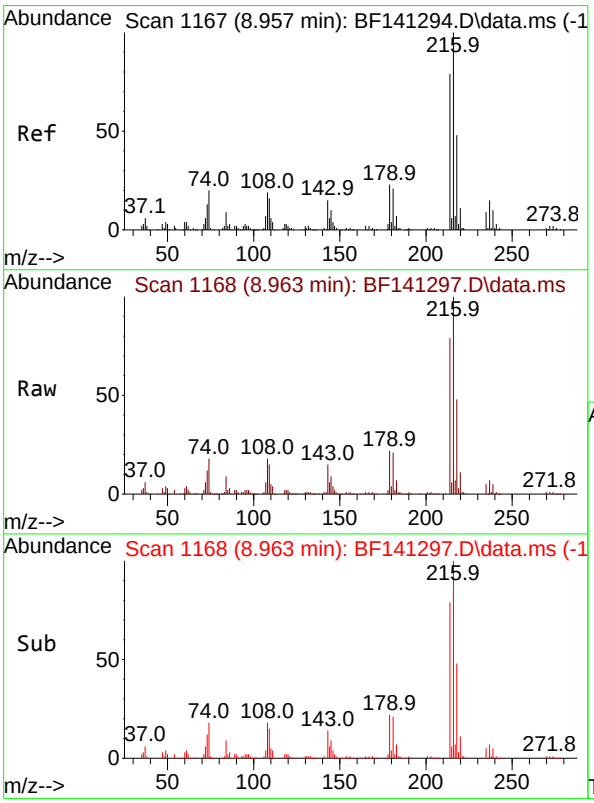
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:164 Resp: 259556

Ion	Ratio	Lower	Upper
164	100		
162	99.9	80.6	121.0
160	44.8	35.8	53.6

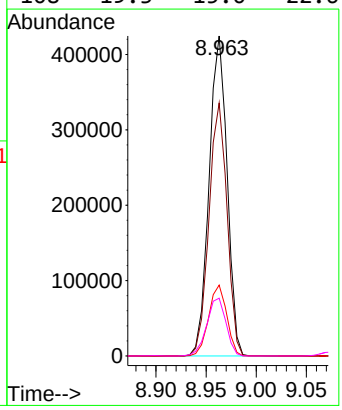


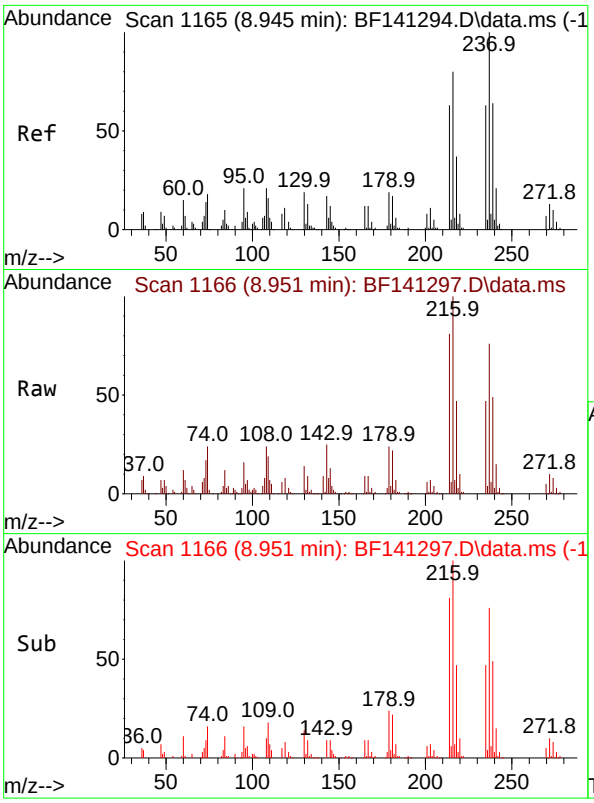


#40
1,2,4,5-Tetrachlorobenzene
Concen: 70.756 ng
RT: 8.963 min Scan# 1168
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:216 Resp: 531237

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.2	94.8
179	22.3	17.8	26.8
108	19.3	15.0	22.6



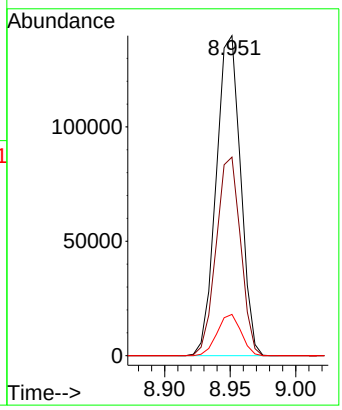


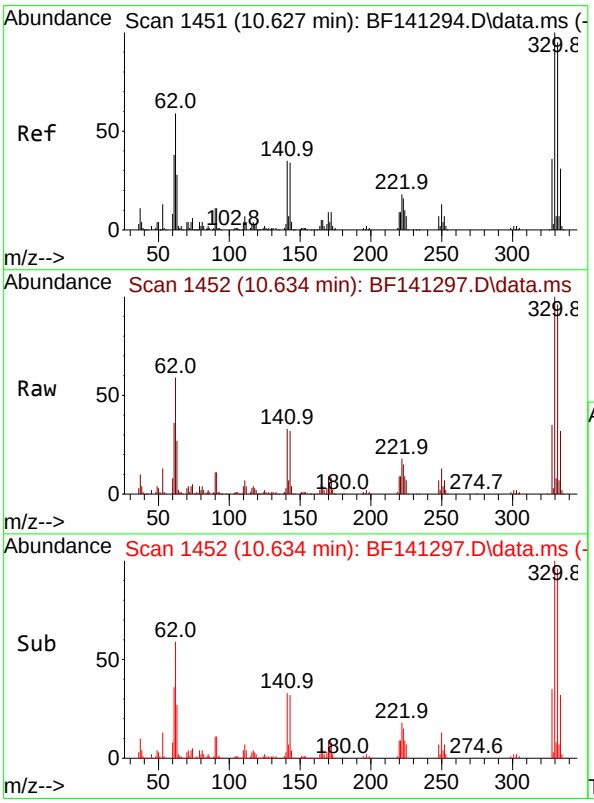
#41
Hexachlorocyclopentadiene
Concen: 83.336 ng
RT: 8.951 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:237 Resp: 180658

Ion	Ratio	Lower	Upper
237	100		
235	62.0	42.9	82.9
272	12.9	0.0	32.8

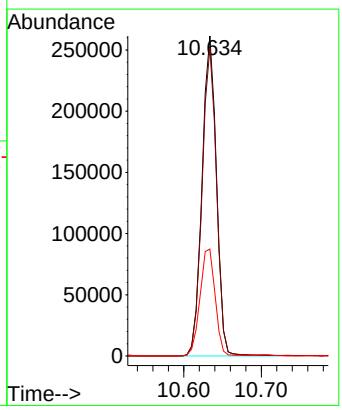


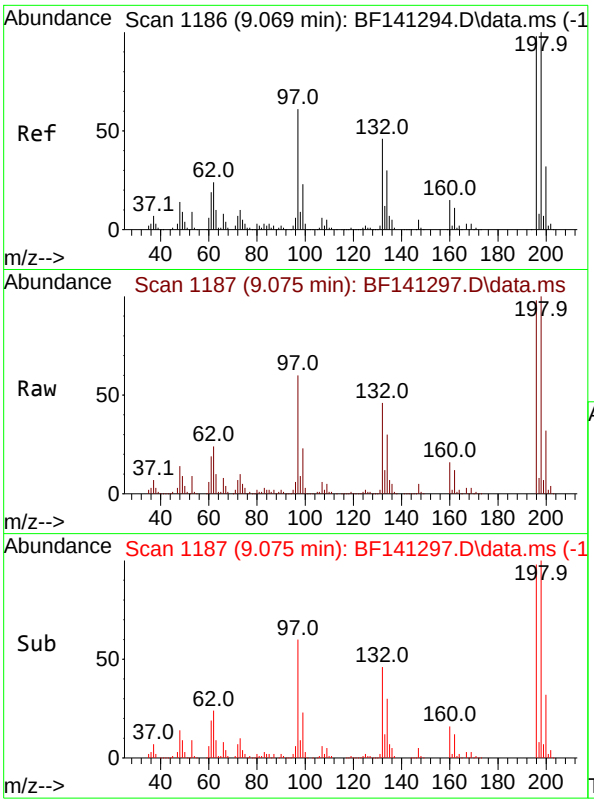


#42
2,4,6-Tribromophenol
Concen: 139.281 ng
RT: 10.634 min Scan# 1452
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:330 Resp: 337670

Ion	Ratio	Lower	Upper
330	100		
332	96.7	76.1	114.1
141	35.3	28.8	43.2



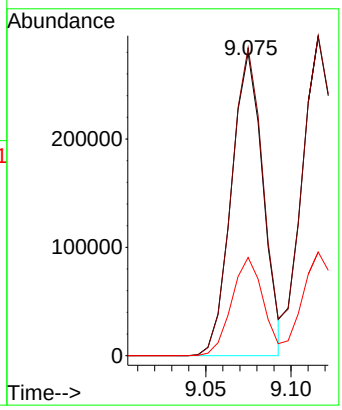


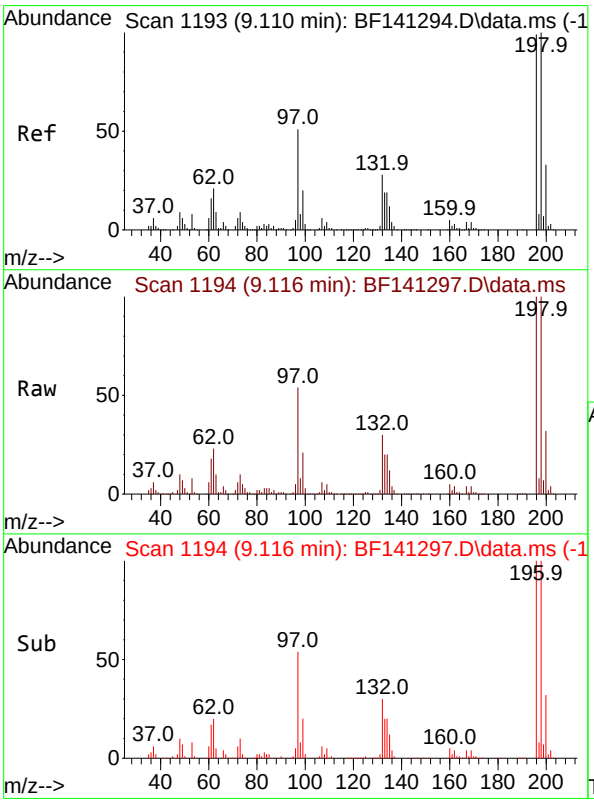
#43
2,4,6-Trichlorophenol
Concen: 73.727 ng
RT: 9.075 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:196 Resp: 360370

Ion	Ratio	Lower	Upper
196	100		
198	101.8	81.8	122.6
200	32.5	26.3	39.5

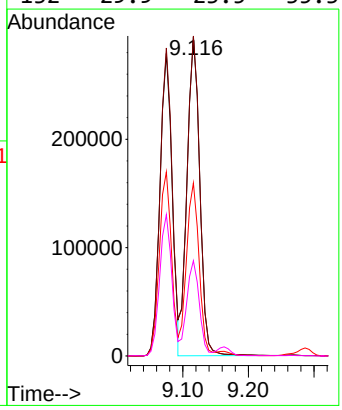


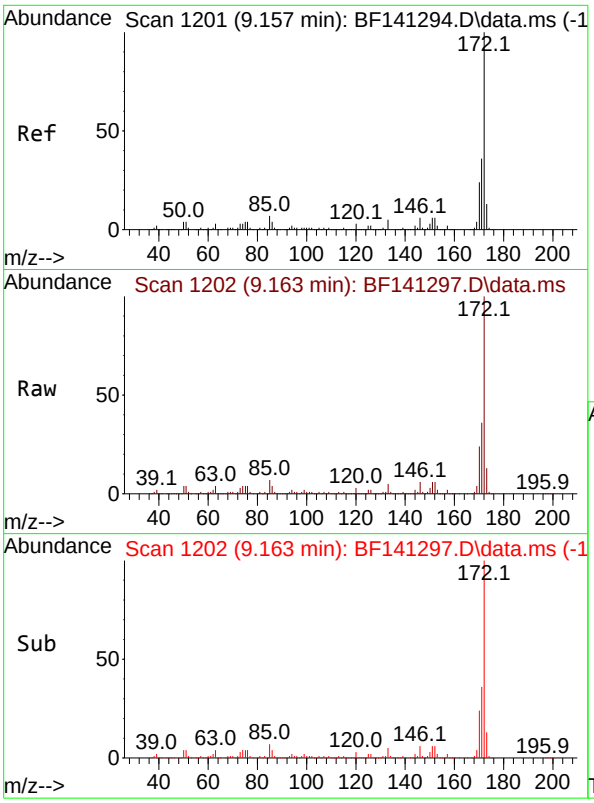


#44
2,4,5-Trichlorophenol
Concen: 74.958 ng
RT: 9.116 min Scan# 1194
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:196 Resp: 397887

Ion	Ratio	Lower	Upper
196	100		
198	100.3	80.5	120.7
97	54.2	42.8	64.2
132	29.9	23.5	35.3



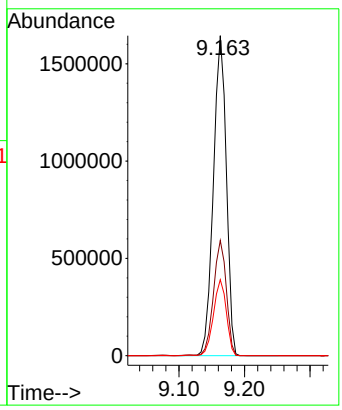


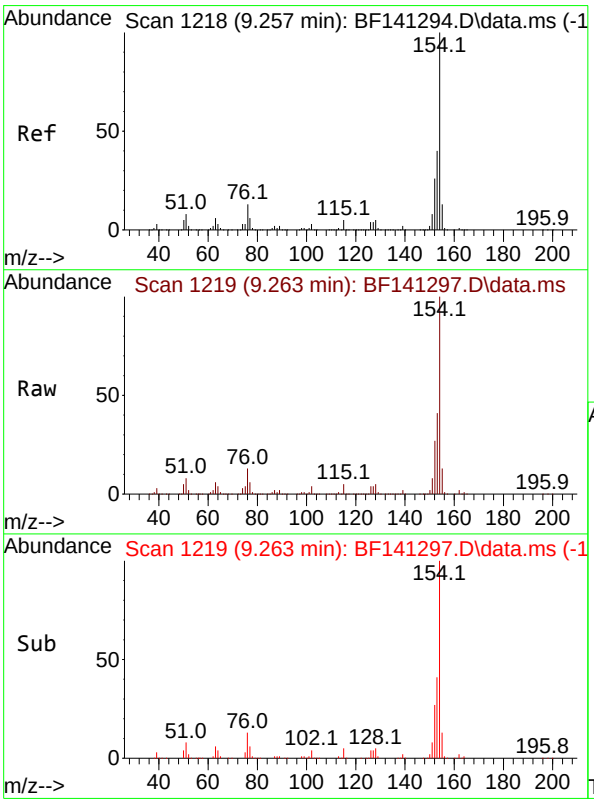
#45
2-Fluorobiphenyl
Concen: 129.739 ng
RT: 9.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:172 Resp: 2248567

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.7	19.0	28.6

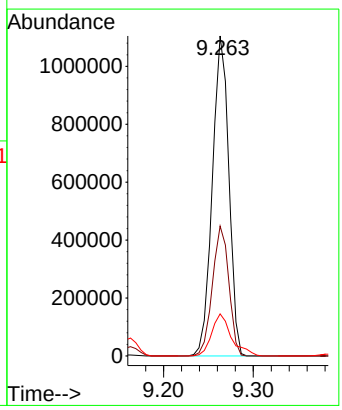


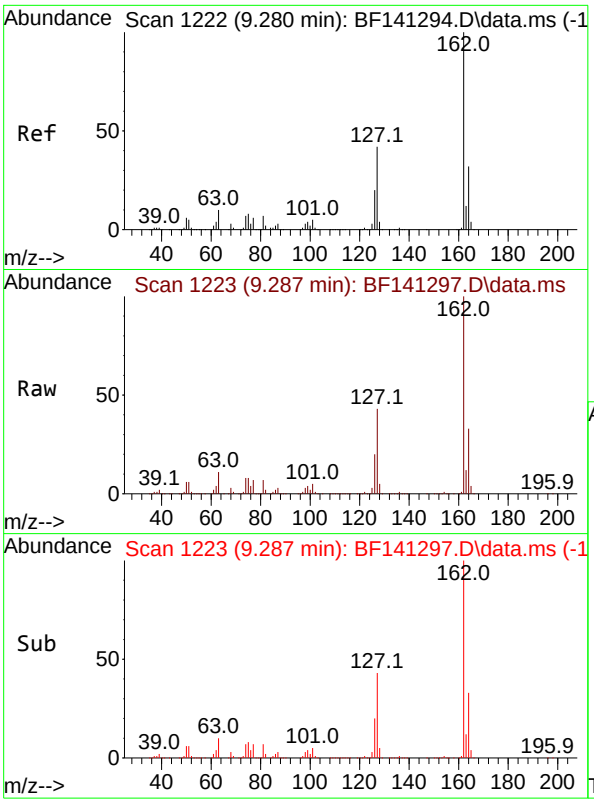


#46
1,1'-Biphenyl
Concen: 68.298 ng
RT: 9.263 min Scan# 1219
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:154 Resp: 1412015

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.0	60.0
76	13.2	0.0	32.8



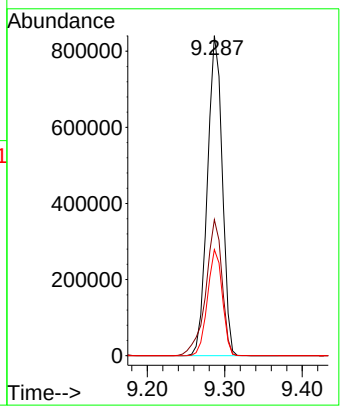


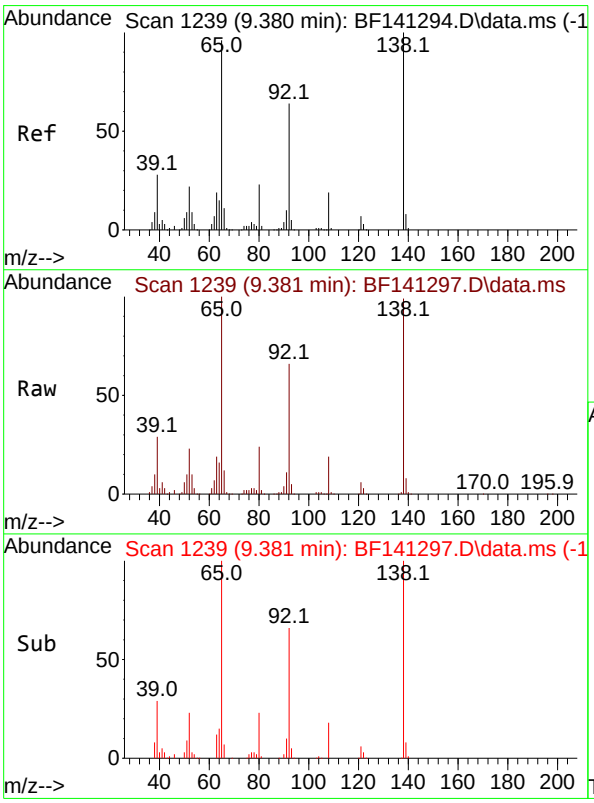
#47
2-Chloronaphthalene
Concen: 69.578 ng
RT: 9.287 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:162 Resp: 1118593

Ion	Ratio	Lower	Upper
162	100		
127	42.5	33.7	50.5
164	33.1	25.9	38.9

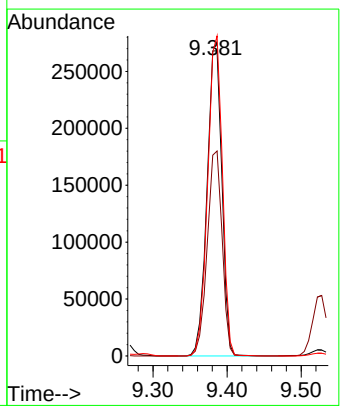


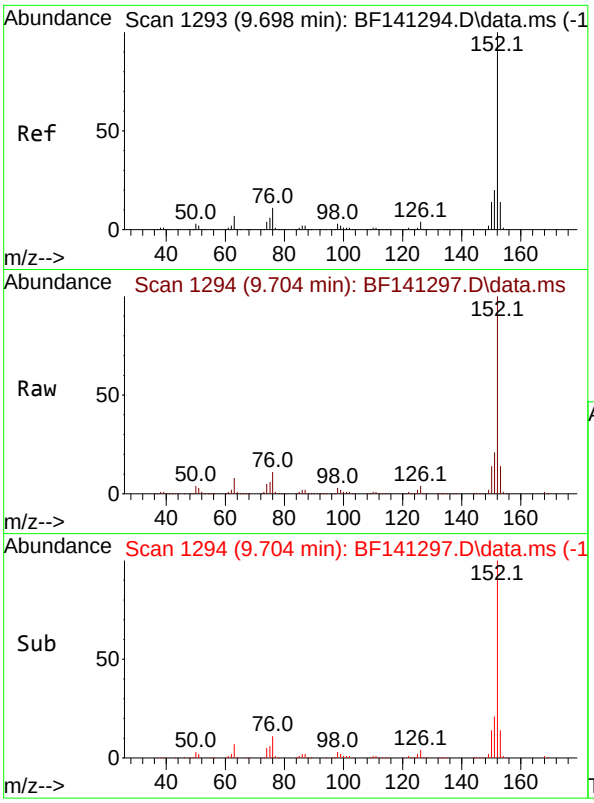


#48
2-Nitroaniline
Concen: 75.652 ng
RT: 9.381 min Scan# 1239
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 65 Resp: 378379

Ion	Ratio	Lower	Upper
65	100		
92	65.8	53.3	79.9
138	99.5	83.6	125.4



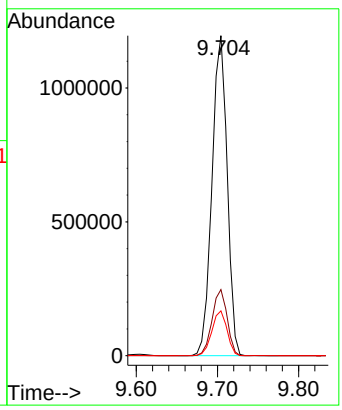


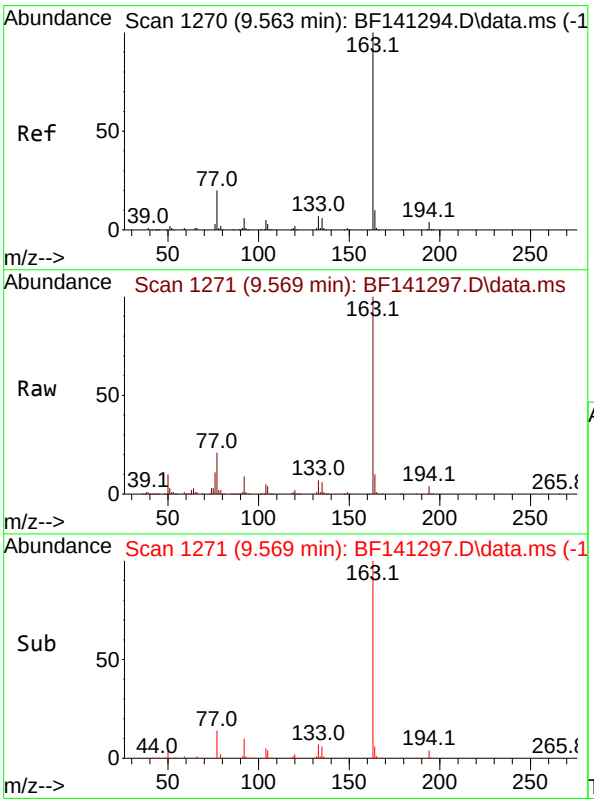
#49
Acenaphthylene
Concen: 68.901 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:152 Resp: 1552508

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.2
153	14.0	11.0	16.6

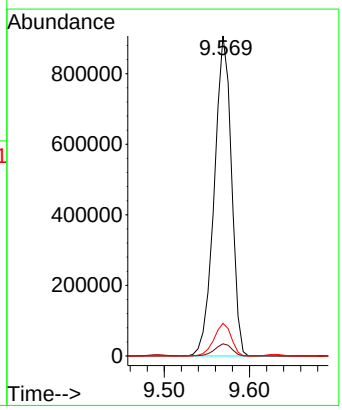


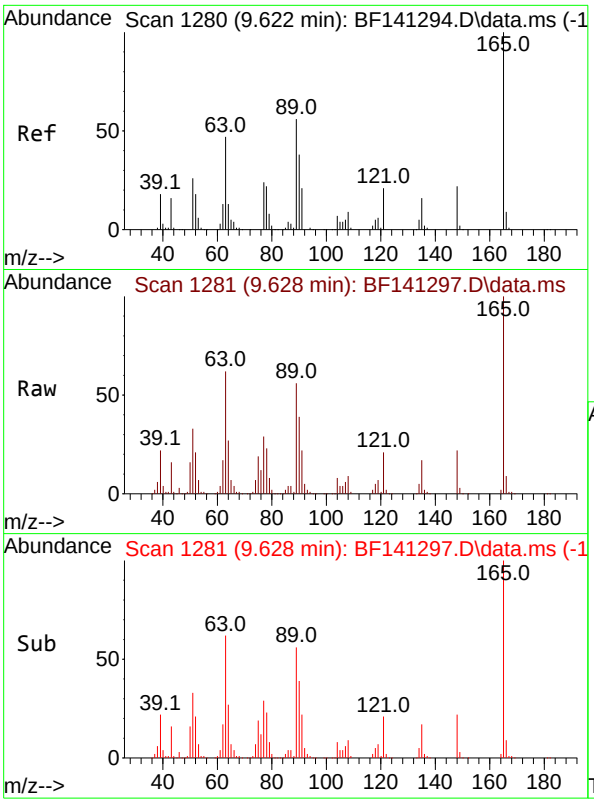


#50
Dimethylphthalate
Concen: 71.308 ng
RT: 9.569 min Scan# 1271
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:163 Resp: 1269770

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.0	12.0



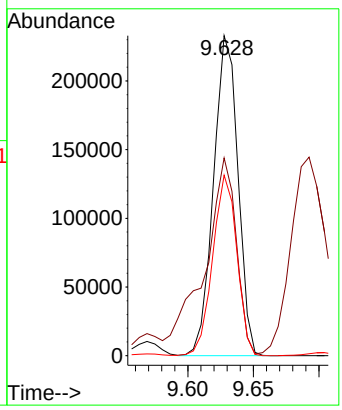


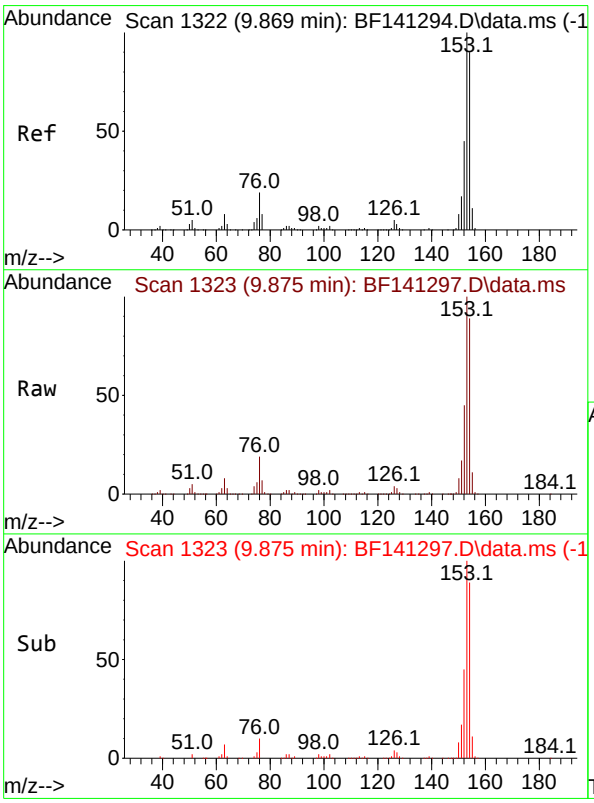
#51
2,6-Dinitrotoluene
Concen: 72.992 ng
RT: 9.628 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 300867

Ion	Ratio	Lower	Upper
165	100		
63	61.8	48.1	72.1
89	56.4	44.9	67.3

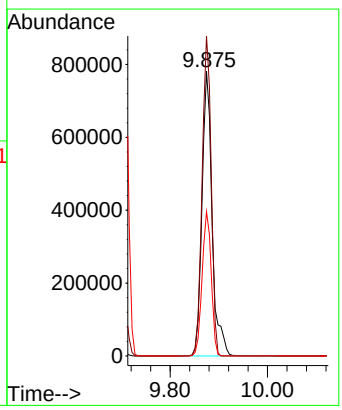


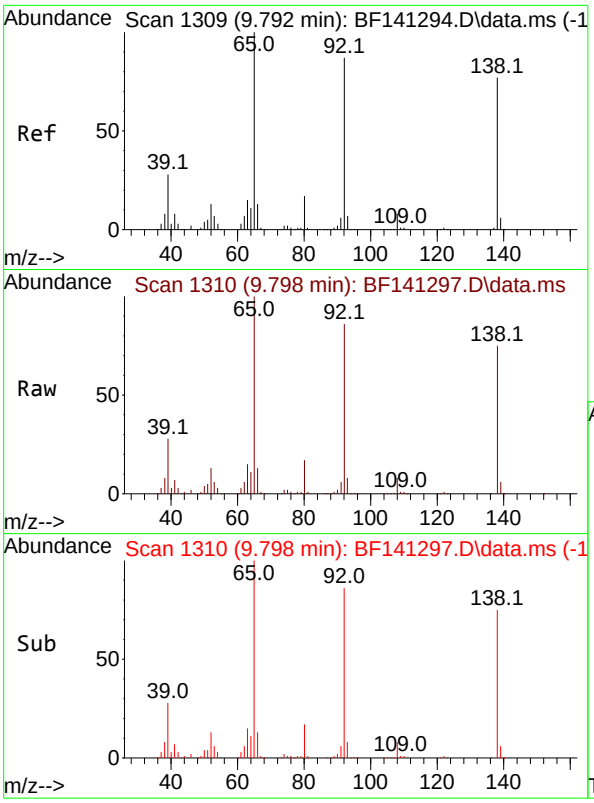


#52
Acenaphthene
Concen: 69.700 ng
RT: 9.875 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:154 Resp: 1120345

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.0	133.4
152	50.7	40.2	60.4



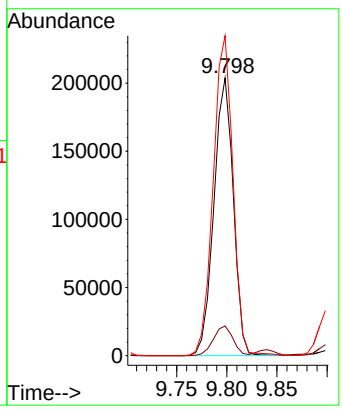


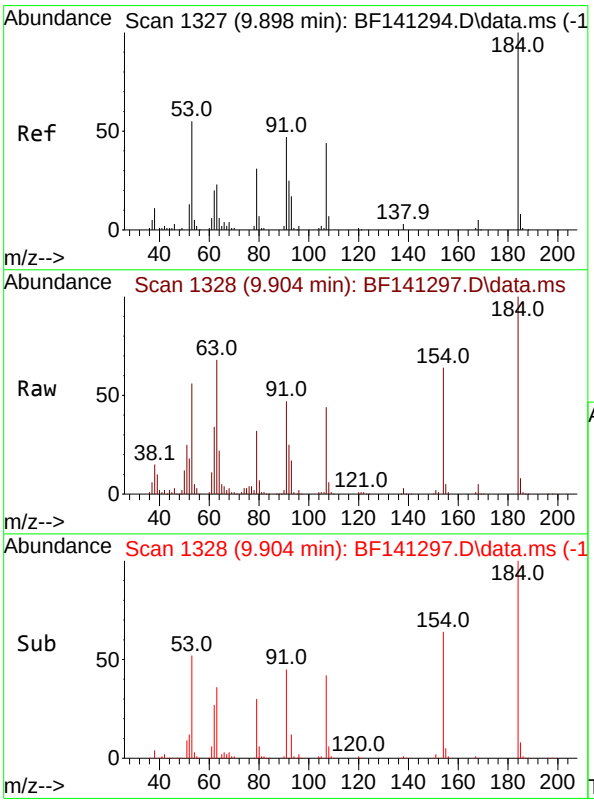
#53
3-Nitroaniline
Concen: 67.215 ng
RT: 9.798 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:138 Resp: 274410

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.6	12.8
92	115.2	91.0	136.6

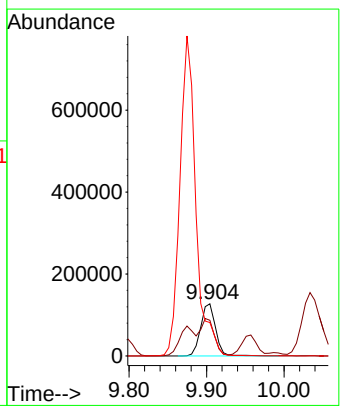


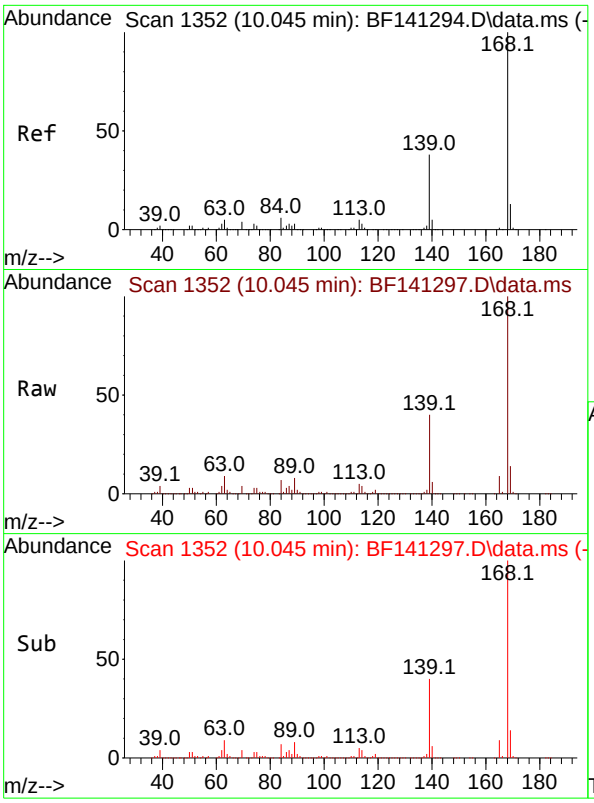


#54
2,4-Dinitrophenol
Concen: 101.582 ng
RT: 9.904 min Scan# 1328
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:184 Resp: 169946

Ion	Ratio	Lower	Upper
184	100		
63	68.3	54.1	81.1
154	64.0	50.7	76.1



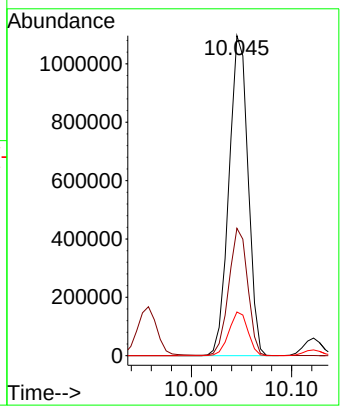


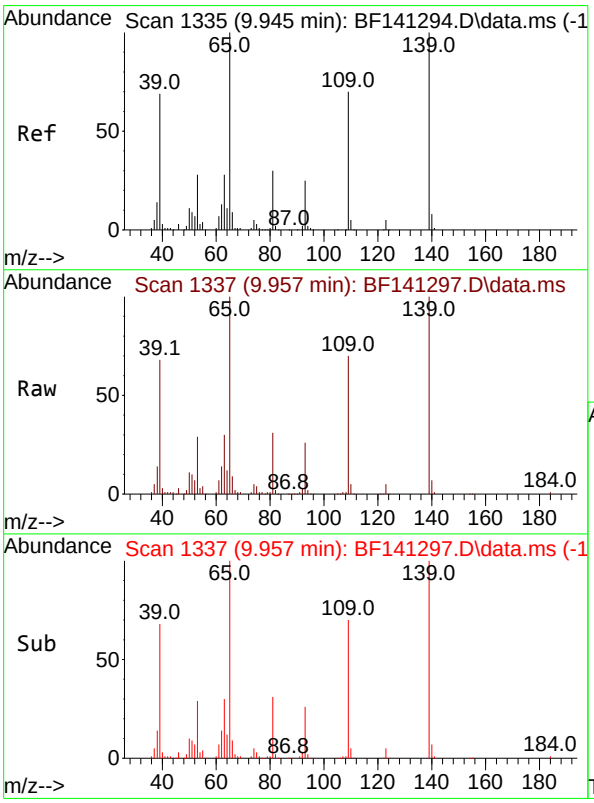
#55
Dibenzofuran
Concen: 67.158 ng
RT: 10.045 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:168 Resp: 1451668

Ion	Ratio	Lower	Upper
168	100		
139	39.8	30.6	46.0
169	13.7	10.8	16.2

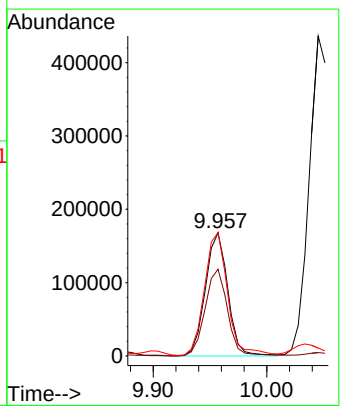


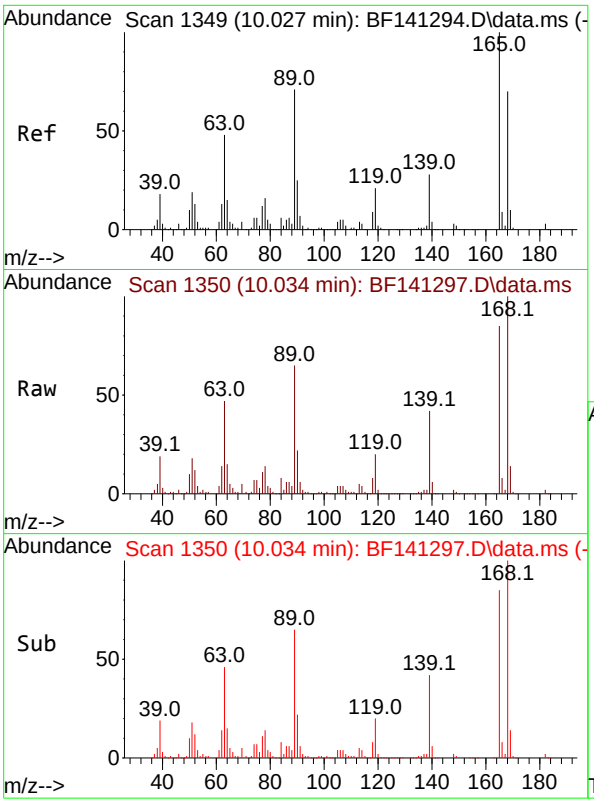


#56
4-Nitrophenol
Concen: 78.788 ng
RT: 9.957 min Scan# 1337
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:139 Resp: 230369

Ion	Ratio	Lower	Upper
139	100		
109	70.4	50.2	90.2
65	100.3	80.6	120.6



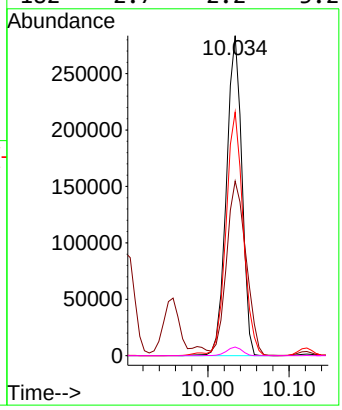


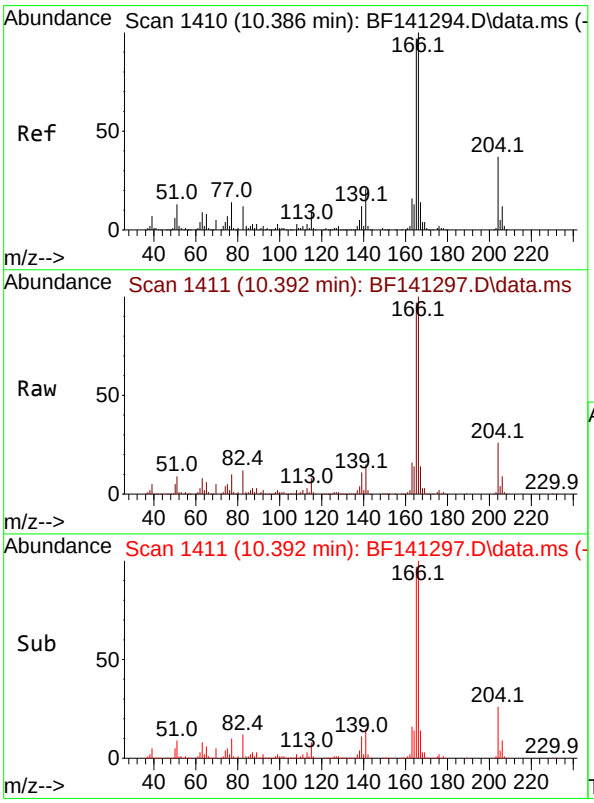
#57
2,4-Dinitrotoluene
Concen: 70.012 ng
RT: 10.034 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:165 Resp: 375659

Ion	Ratio	Lower	Upper
165	100		
63	54.5	39.2	58.8
89	76.1	56.9	85.3
182	2.7	2.2	3.2

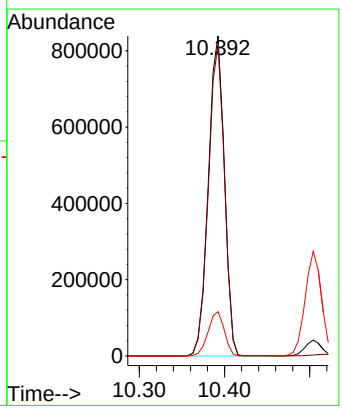


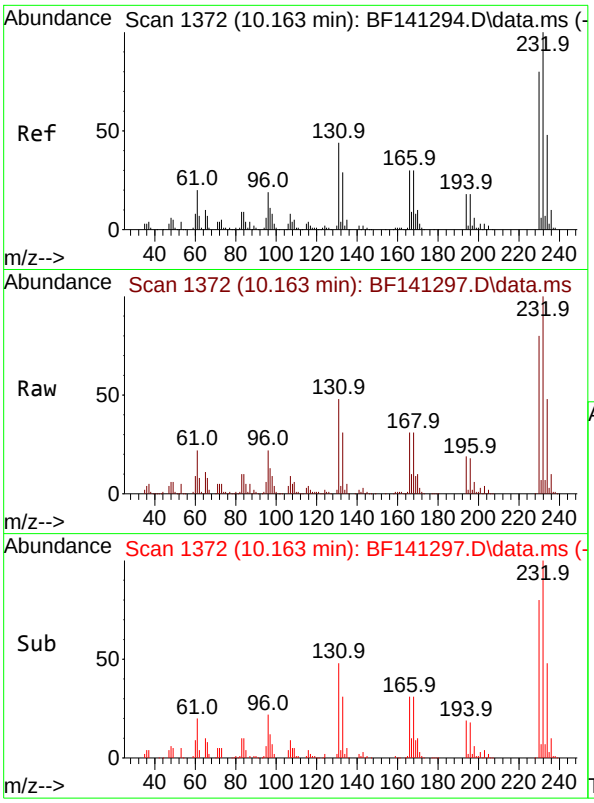


#58
Fluorene
Concen: 65.335 ng
RT: 10.392 min Scan# 1411
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:166 Resp: 1099129

Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.5	116.3
167	13.9	10.9	16.3



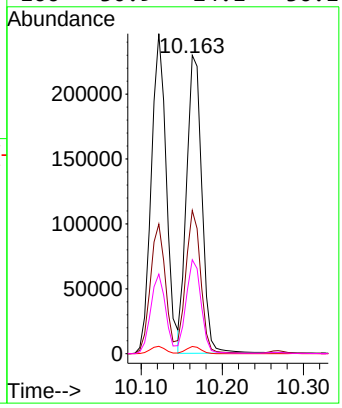


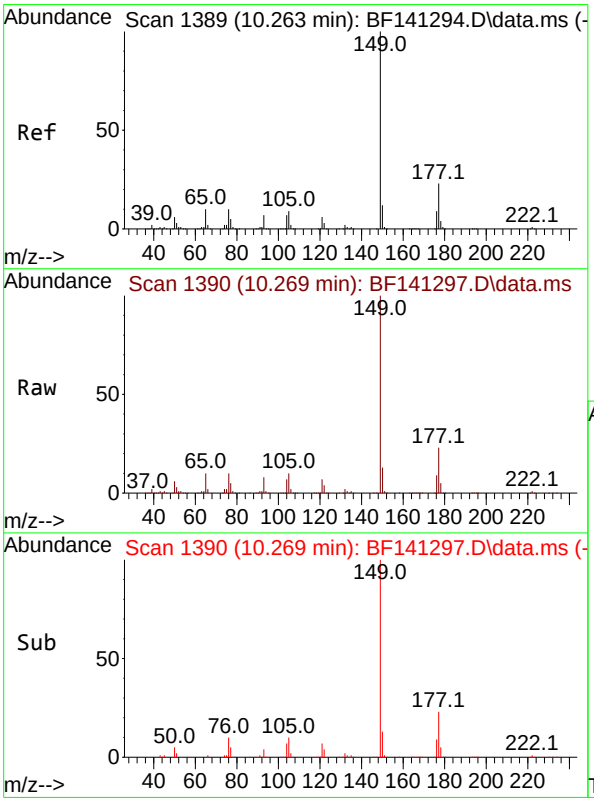
#59
2,3,4,6-Tetrachlorophenol
Concen: 72.005 ng
RT: 10.163 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:232 Resp: 302300

Ion	Ratio	Lower	Upper
232	100		
131	47.5	36.4	54.6
130	2.4	1.9	2.9
166	30.9	24.1	36.1

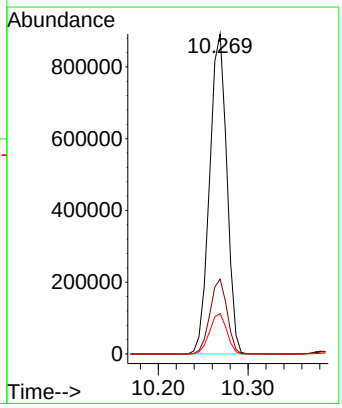


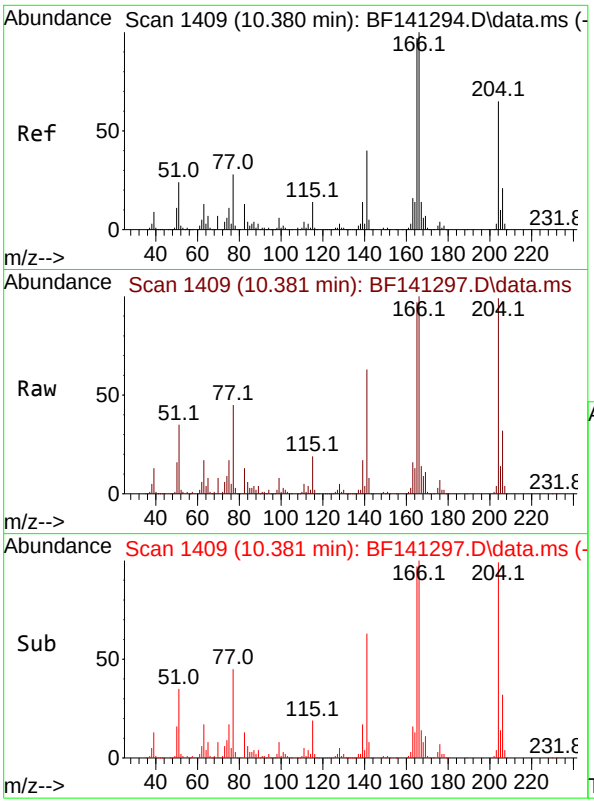


#60
Diethylphthalate
Concen: 68.571 ng
RT: 10.269 min Scan# 1390
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 1189833

Ion	Ratio	Lower	Upper
149	100		
177	23.4	18.5	27.7
150	12.7	10.0	15.0



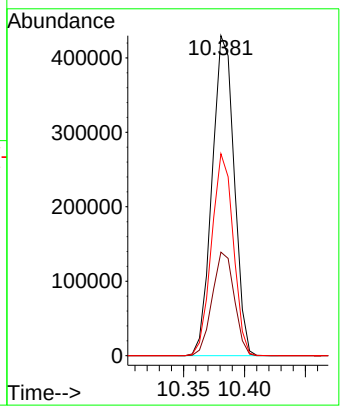


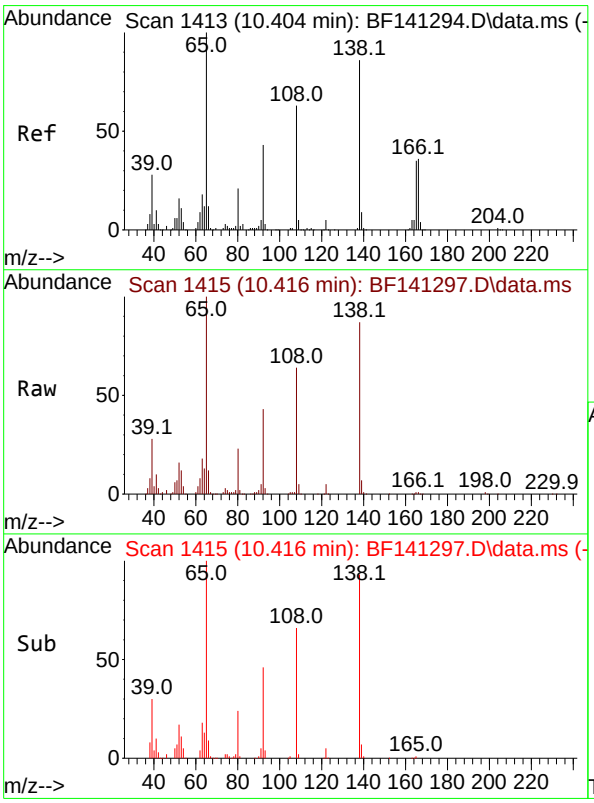
#61
4-Chlorophenyl-phenylether
Concen: 65.968 ng
RT: 10.381 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 541468

Ion	Ratio	Lower	Upper
204	100		
206	32.4	25.9	38.9
141	63.1	49.5	74.3

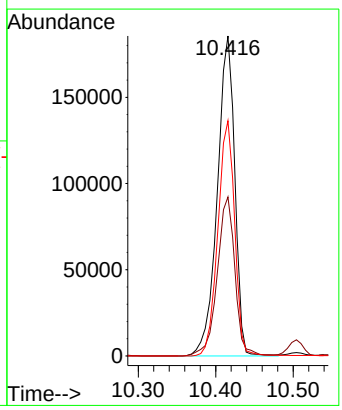


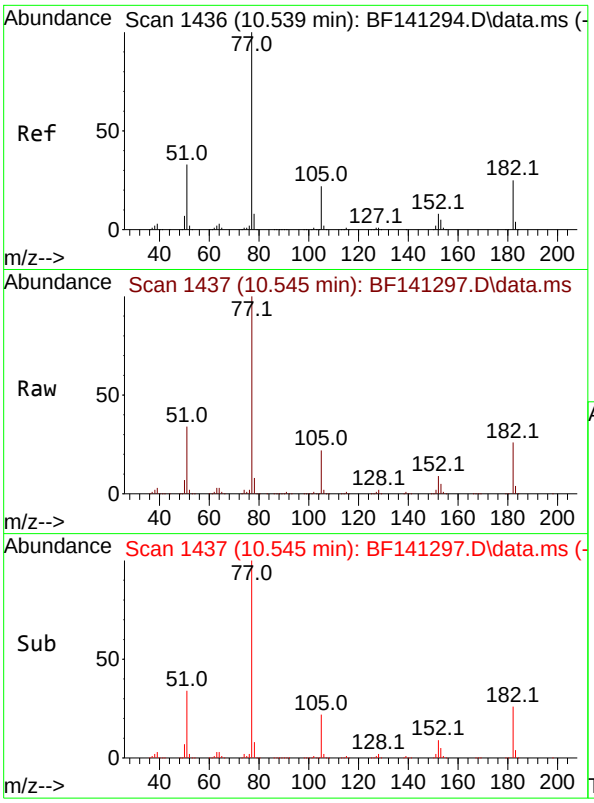


#62
4-Nitroaniline
Concen: 73.604 ng
RT: 10.416 min Scan# 1415
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:138 Resp: 292019

Ion	Ratio	Lower	Upper
138	100		
92	49.7	30.1	70.1
108	73.5	53.1	93.1



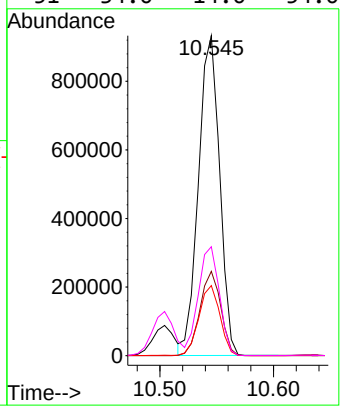


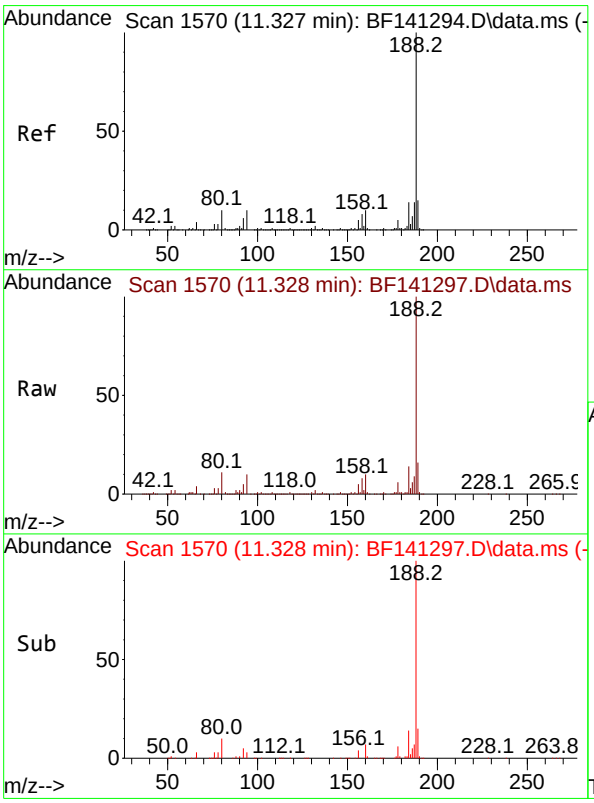
#63
Azobenzene
Concen: 69.582 ng
RT: 10.545 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion: 77 Resp: 1206328

Ion	Ratio	Lower	Upper
77	100		
182	26.3	5.1	45.1
105	21.9	1.8	41.8
51	34.0	14.0	54.0

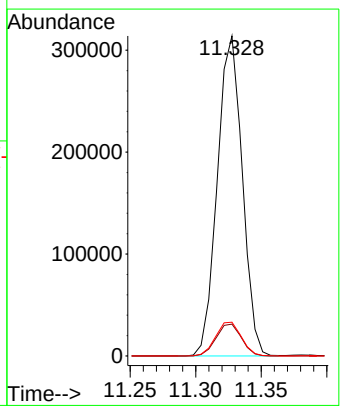


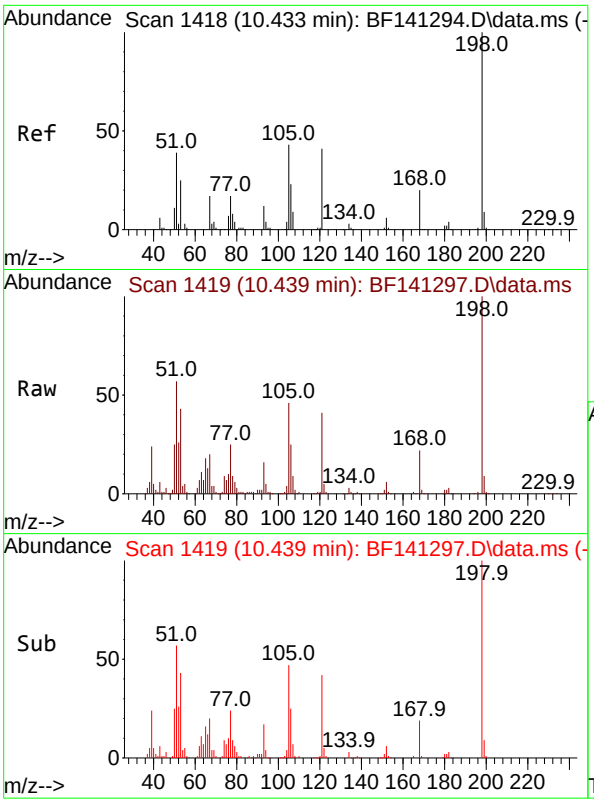


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:188 Resp: 415634

Ion	Ratio	Lower	Upper
188	100		
94	10.0	7.8	11.6
80	10.6	8.2	12.4



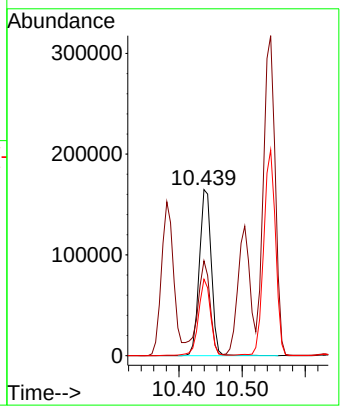


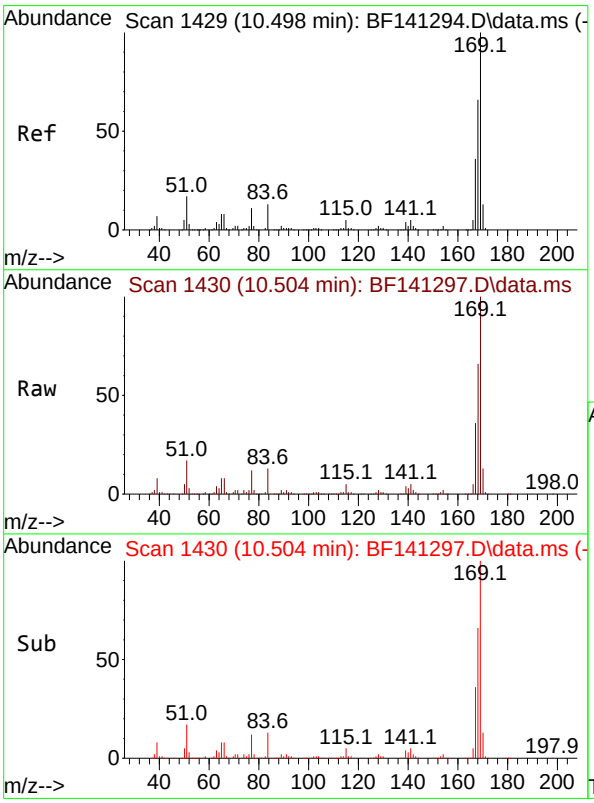
#65
4,6-Dinitro-2-methylphenol
Concen: 89.943 ng
RT: 10.439 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:198 Resp: 217265

Ion	Ratio	Lower	Upper
198	100		
51	57.1	33.4	73.4
105	46.0	24.4	64.4

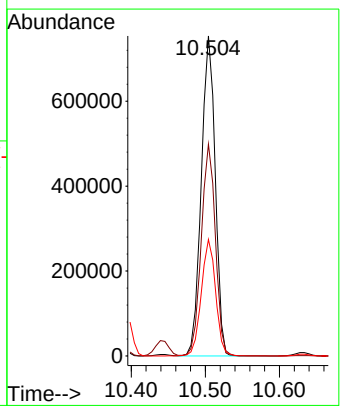


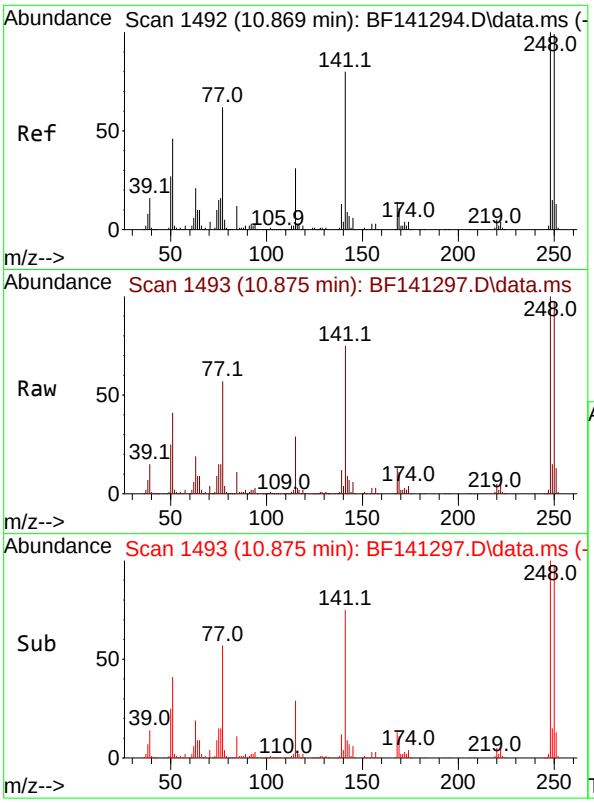


#66
n-Nitrosodiphenylamine
Concen: 72.353 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:169 Resp: 986121

Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.4
167	36.4	28.8	43.2



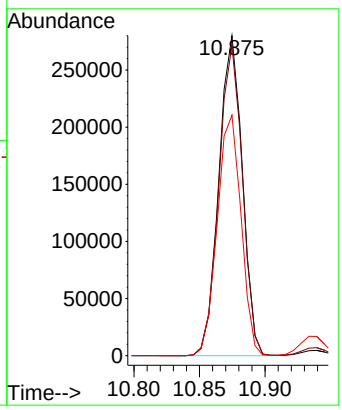


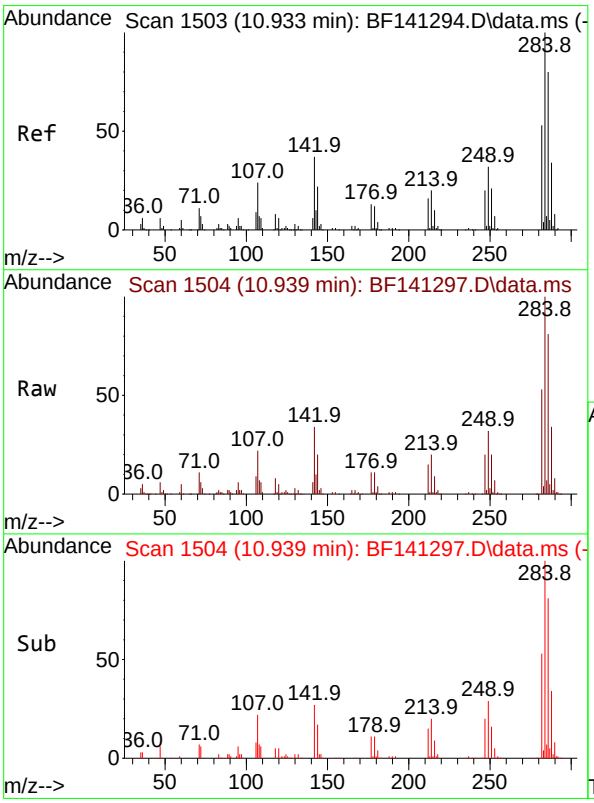
#67
4-Bromophenyl-phenylether
Concen: 74.136 ng
RT: 10.875 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:248 Resp: 348615

Ion	Ratio	Lower	Upper
248	100		
250	97.0	79.0	118.4
141	75.1	63.7	95.5

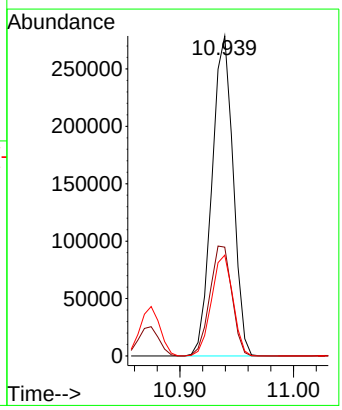


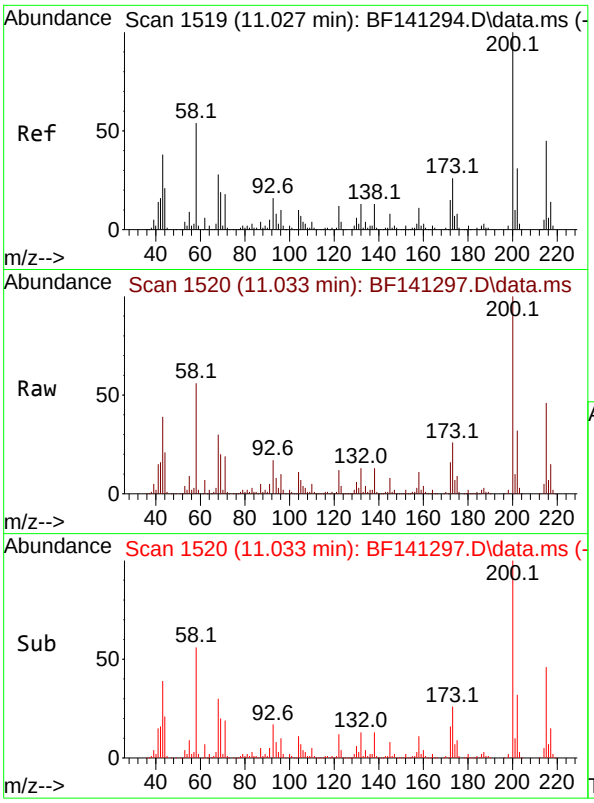


#68
Hexachlorobenzene
Concen: 72.215 ng
RT: 10.939 min Scan# 1504
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:284 Resp: 361469

Ion	Ratio	Lower	Upper
284	100		
142	34.0	29.5	44.3
249	31.5	25.4	38.2



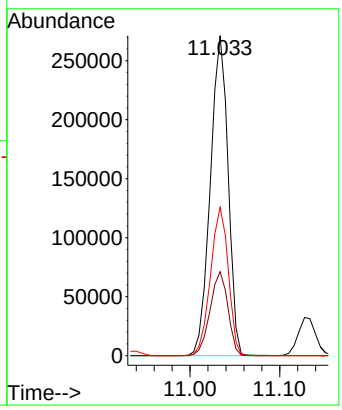


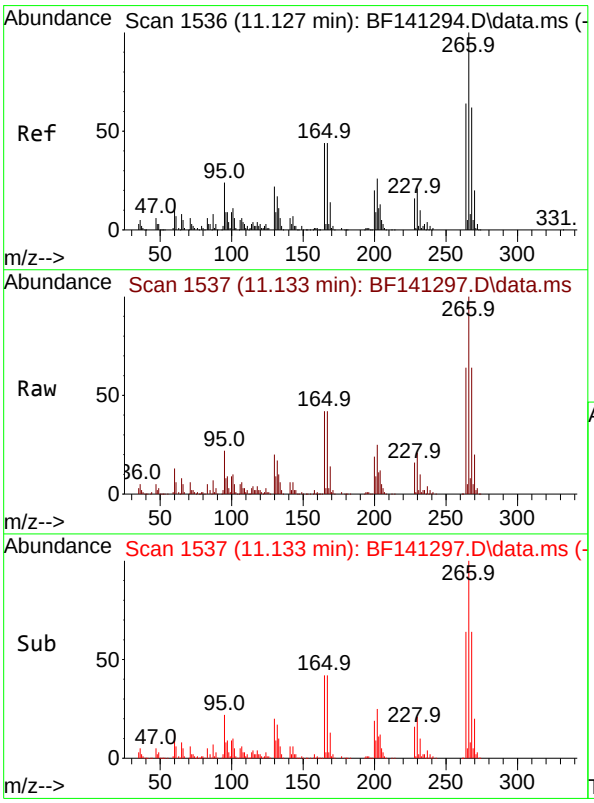
#69
Atrazine
Concen: 83.452 ng
RT: 11.033 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:200 Resp: 372792

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.9	45.9
215	46.4	25.2	65.2

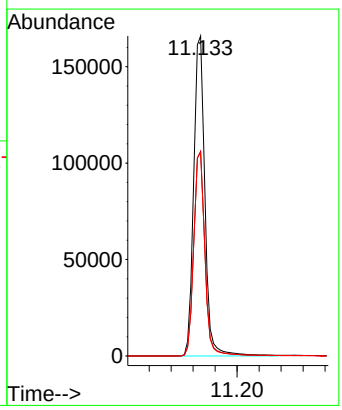


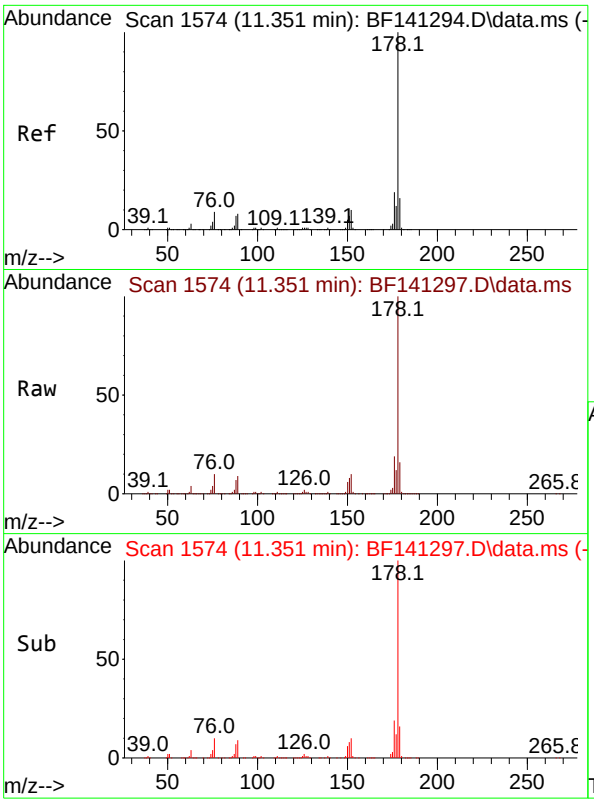


#70
Pentachlorophenol
Concen: 81.539 ng
RT: 11.133 min Scan# 1537
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:266 Resp: 235030

Ion	Ratio	Lower	Upper
266	100		
268	64.0	49.9	74.9
264	63.7	51.0	76.4



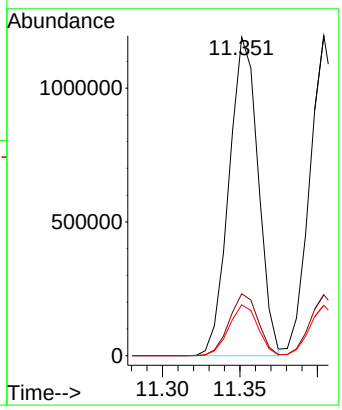


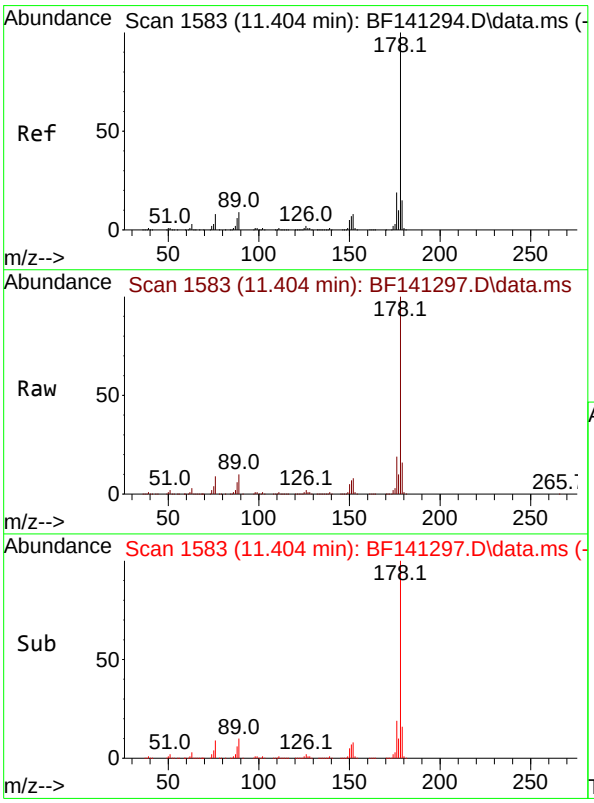
#71
Phenanthrene
Concen: 68.257 ng
RT: 11.351 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:178 Resp: 1557660

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	16.0	12.5	18.7

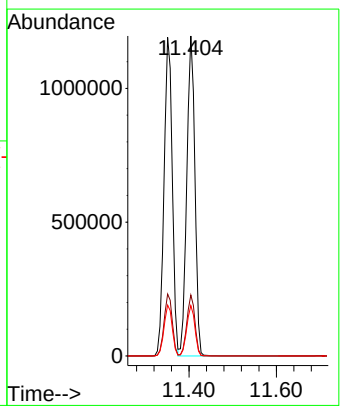


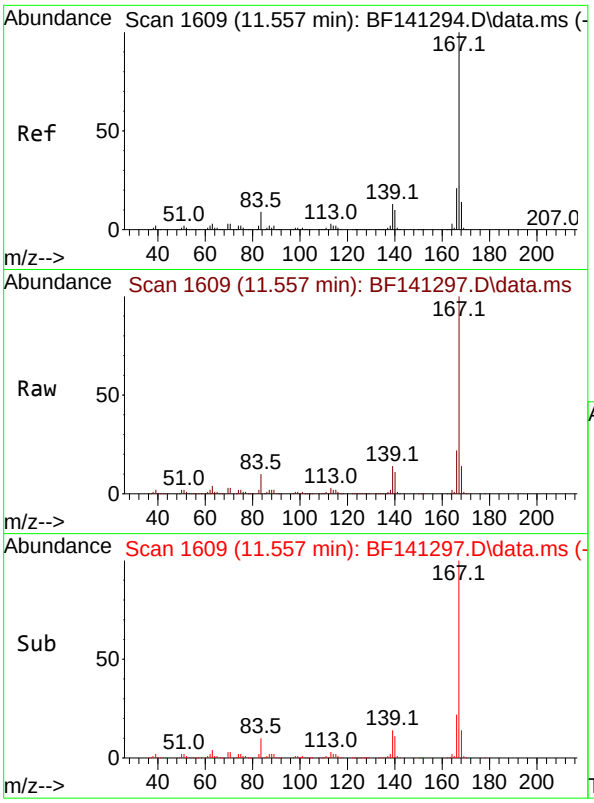


#72
Anthracene
Concen: 68.749 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:178 Resp: 1535860

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.6
179	15.8	12.3	18.5



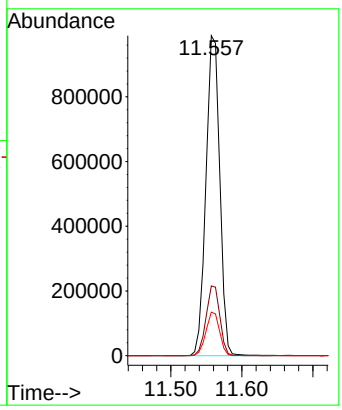


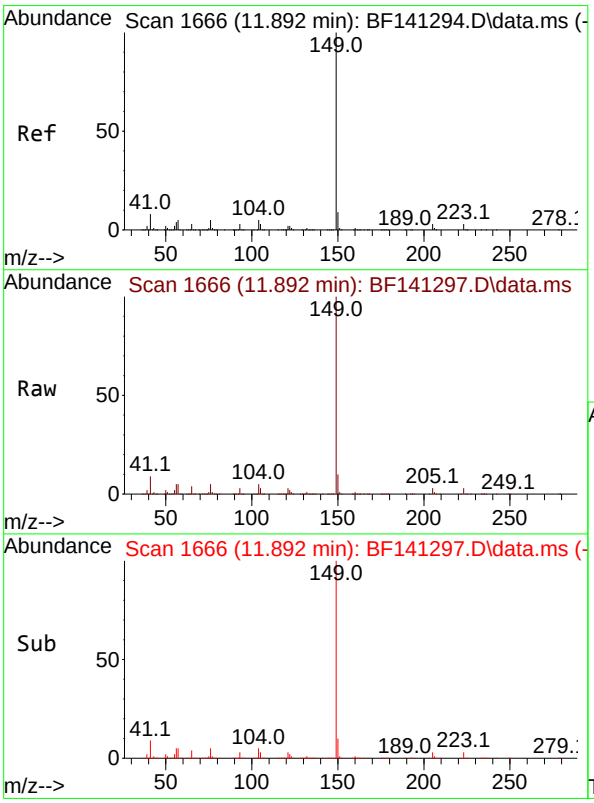
#73
Carbazole
Concen: 67.630 ng
RT: 11.557 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:167 Resp: 1342447

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.6
139	13.6	10.6	16.0

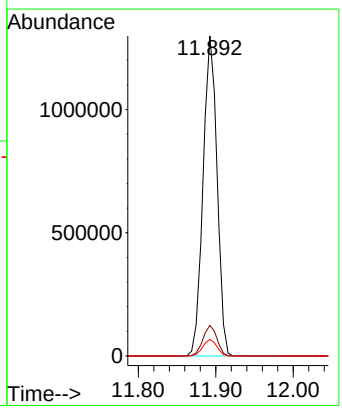


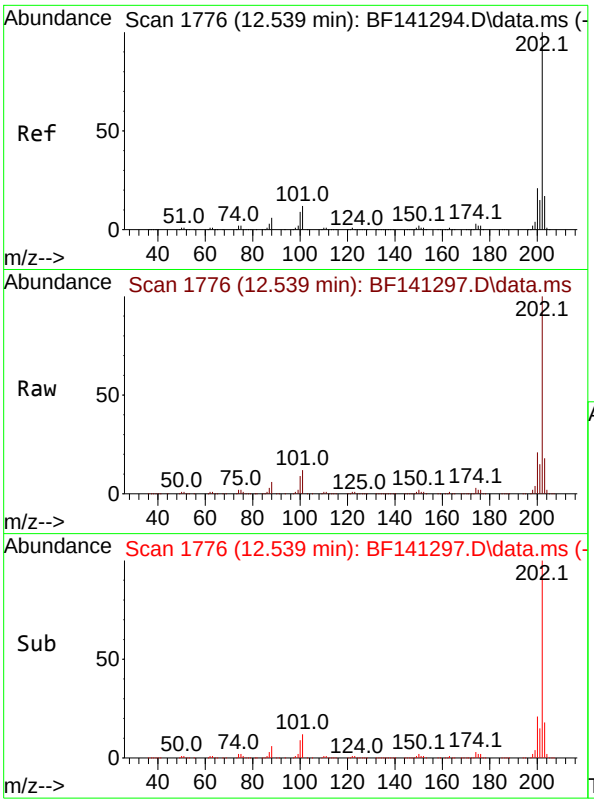


#74
Di-n-butylphthalate
Concen: 67.604 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 1626342

Ion	Ratio	Lower	Upper
149	100		
150	9.6	7.4	11.2
104	5.2	3.9	5.9



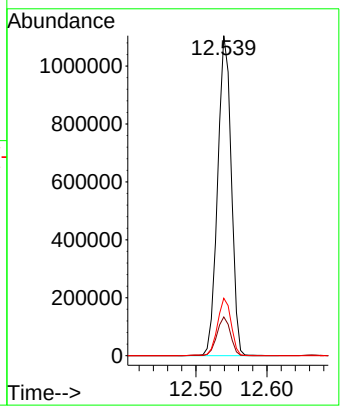


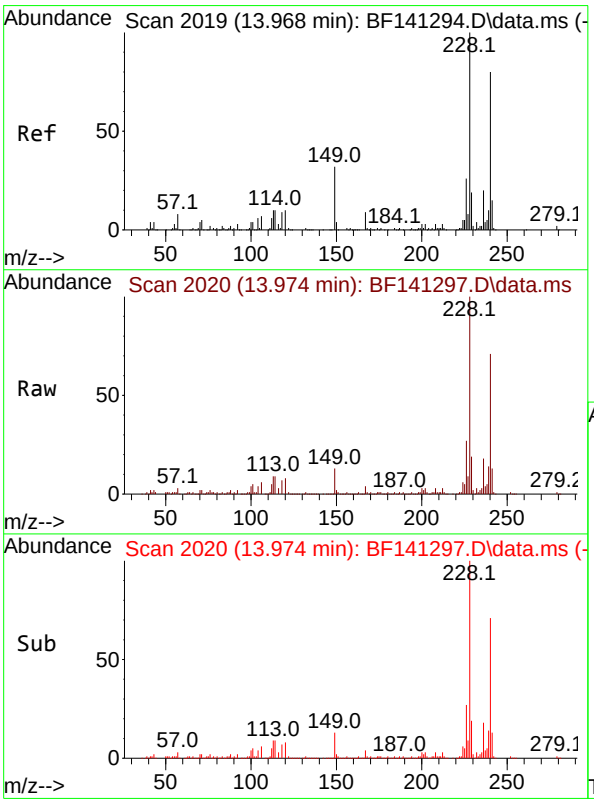
#75
Fluoranthene
Concen: 64.490 ng
RT: 12.539 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:202 Resp: 1463196

Ion	Ratio	Lower	Upper
202	100		
101	12.1	0.0	31.7
203	18.0	0.0	37.5

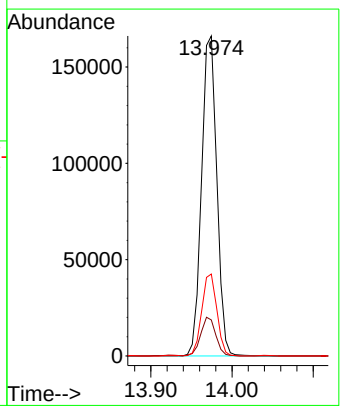


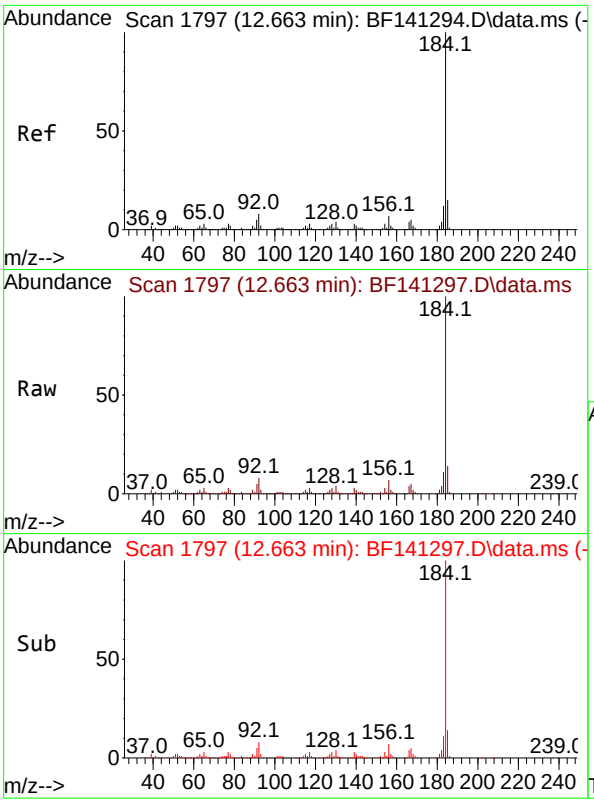


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:240 Resp: 216592

Ion	Ratio	Lower	Upper
240	100		
120	11.2	10.0	15.0
236	25.6	19.7	29.5



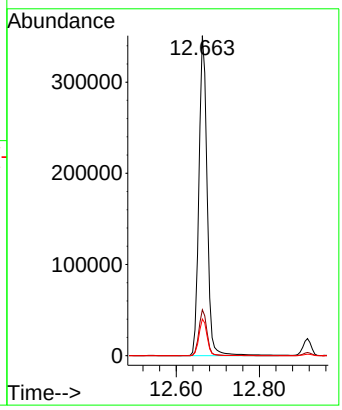


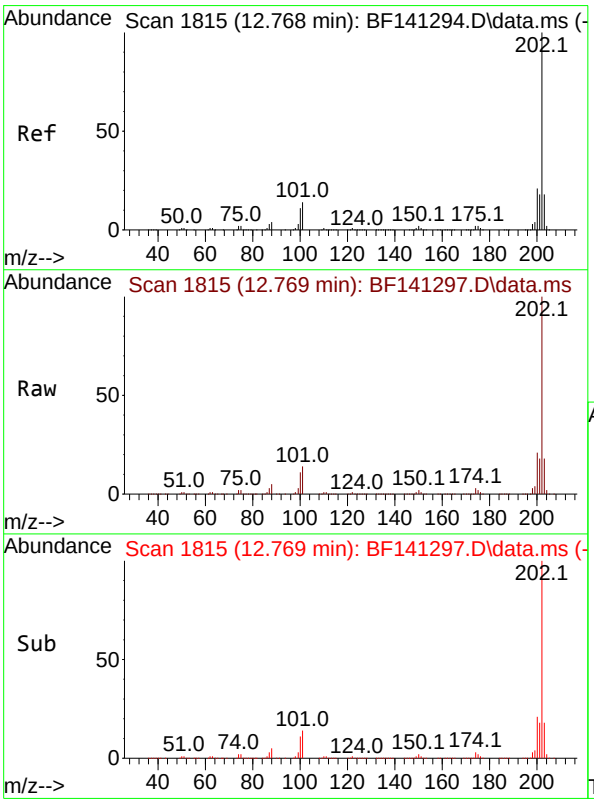
#77
Benzidine
Concen: 67.834 ng
RT: 12.663 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:184 Resp: 481470

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.9	17.9
183	11.5	9.5	14.3

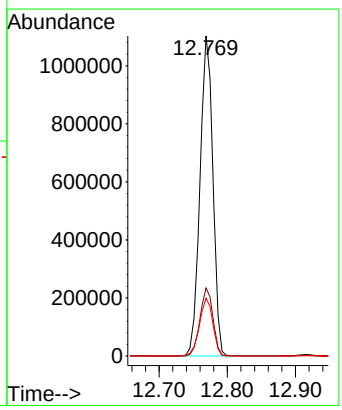


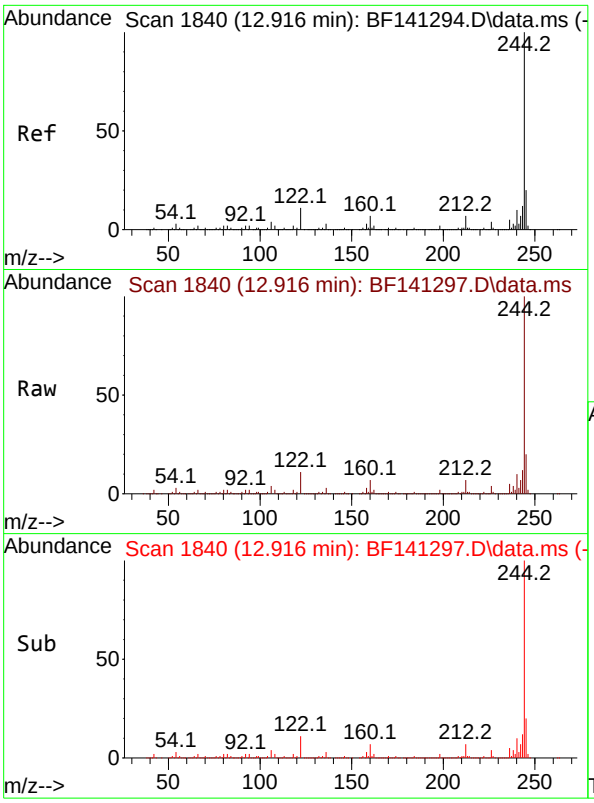


#78
Pyrene
Concen: 68.287 ng
RT: 12.769 min Scan# 1815
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:202 Resp: 1450076

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	18.0	14.3	21.5



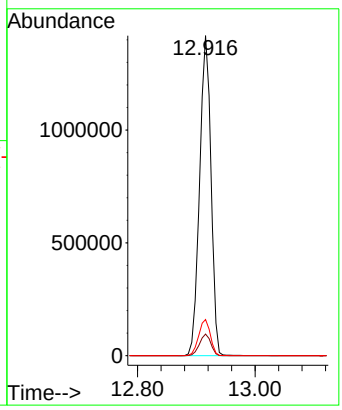


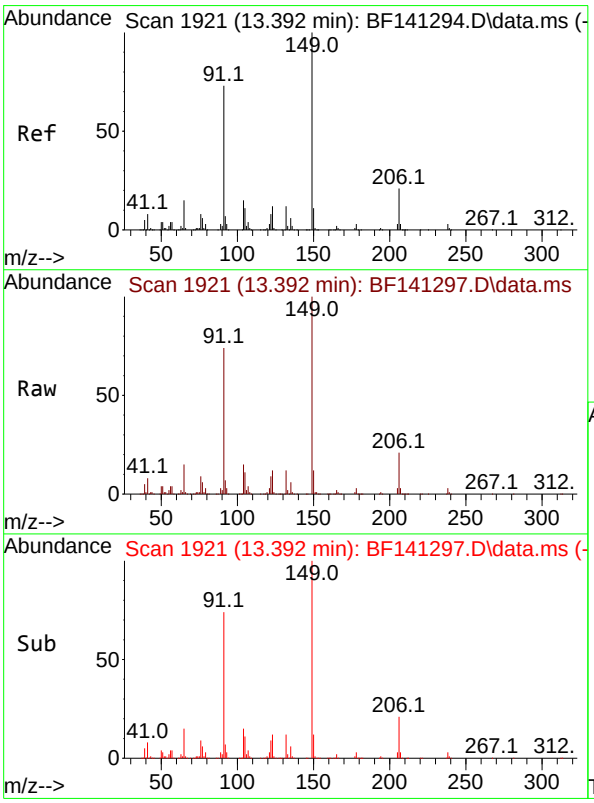
#79
Terphenyl-d14
Concen: 132.741 ng
RT: 12.916 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 1910783

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.3	8.8	13.2

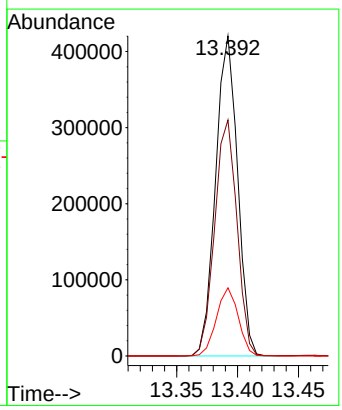


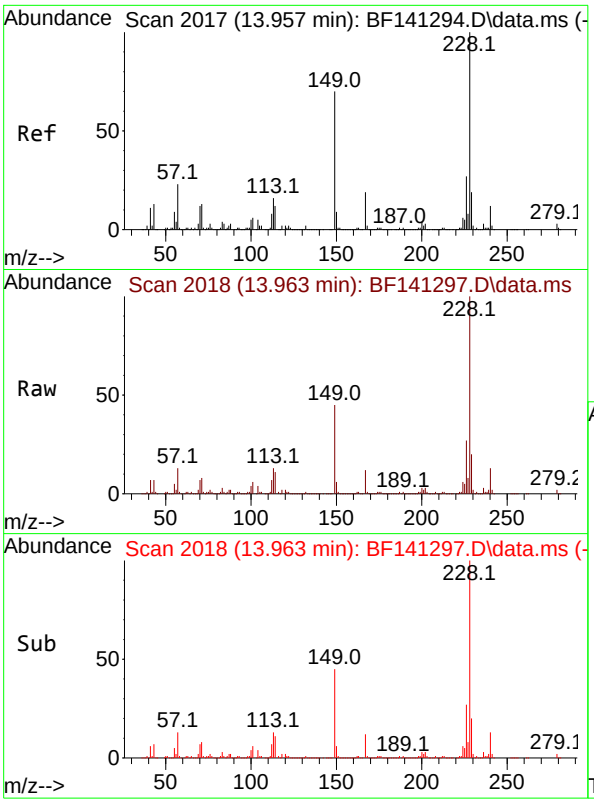


#80
Butylbenzylphthalate
Concen: 71.721 ng
RT: 13.392 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 528754

Ion	Ratio	Lower	Upper
149	100		
91	73.8	58.6	87.8
206	21.3	16.7	25.1



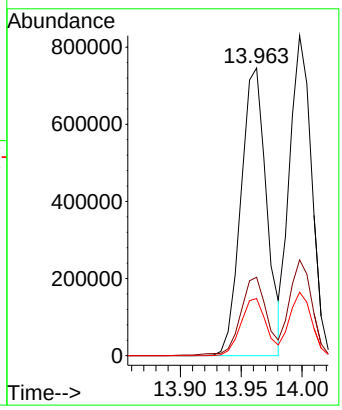


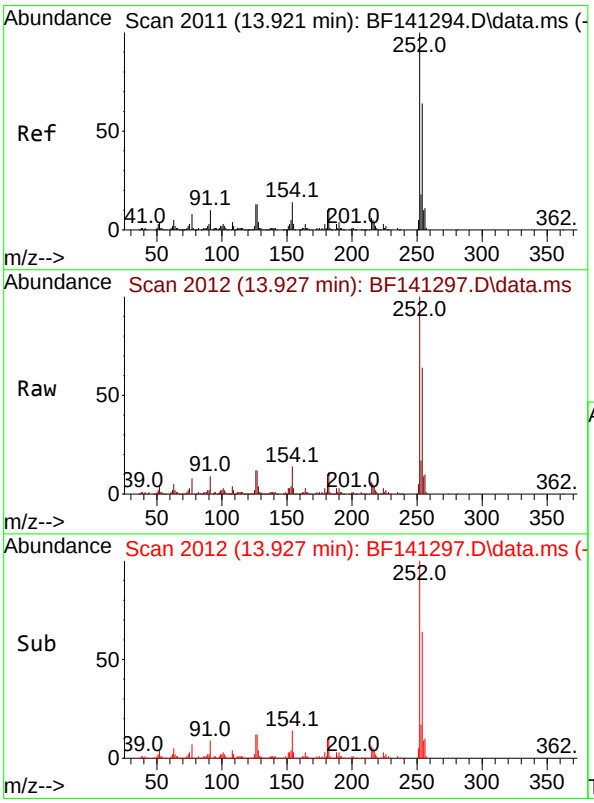
#81
Benzo(a)anthracene
Concen: 72.323 ng
RT: 13.963 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1095972

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.4	32.2
229	19.8	15.5	23.3

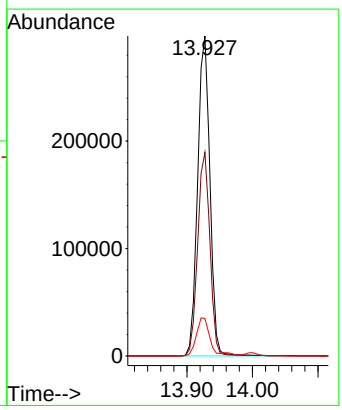


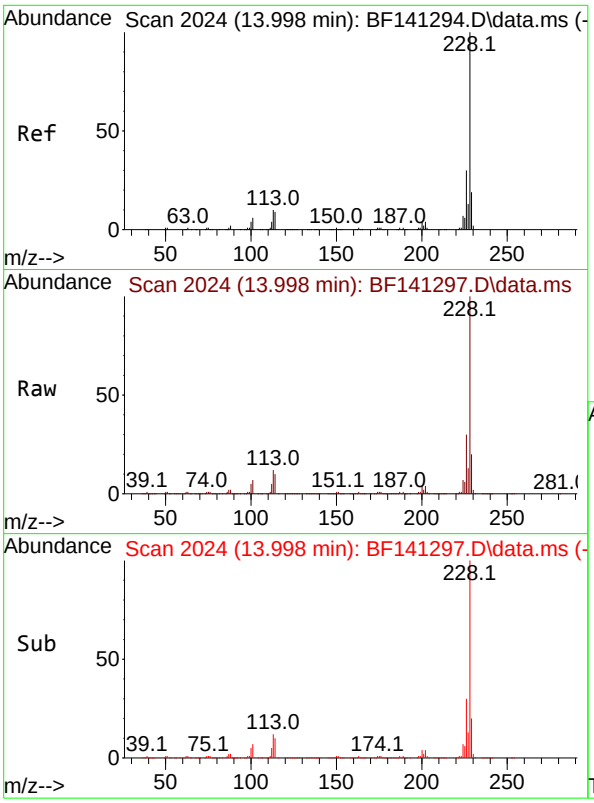


#82
3,3'-Dichlorobenzidine
Concen: 82.157 ng
RT: 13.927 min Scan# 2012
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:252 Resp: 389044

Ion	Ratio	Lower	Upper
252	100		
254	63.6	51.3	76.9
126	11.7	10.0	15.0



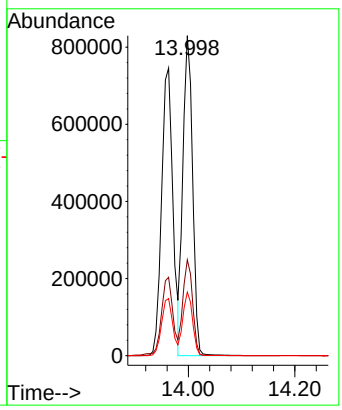


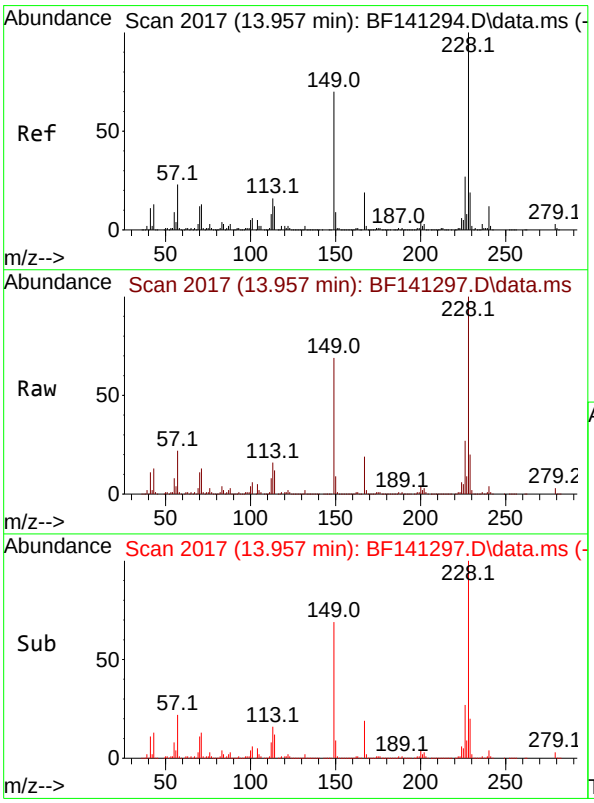
#83
Chrysene
Concen: 75.964 ng
RT: 13.998 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:228 Resp: 1048083

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	19.9	15.6	23.4

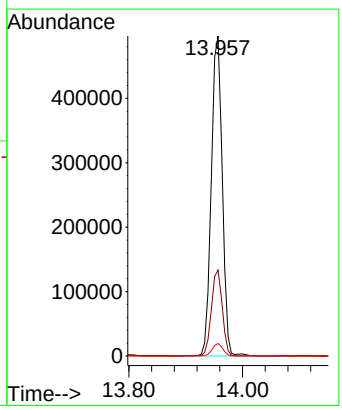


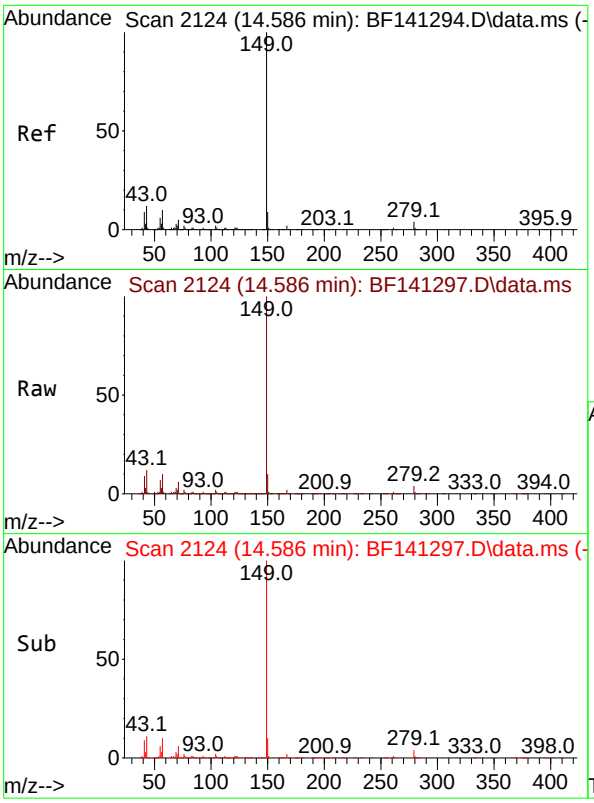


#84
Bis(2-ethylhexyl)phthalate
Concen: 70.666 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 662151

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.8	32.8
279	3.9	3.3	4.9



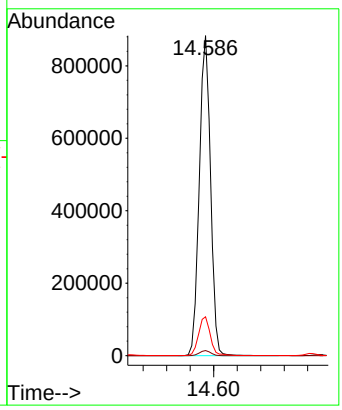


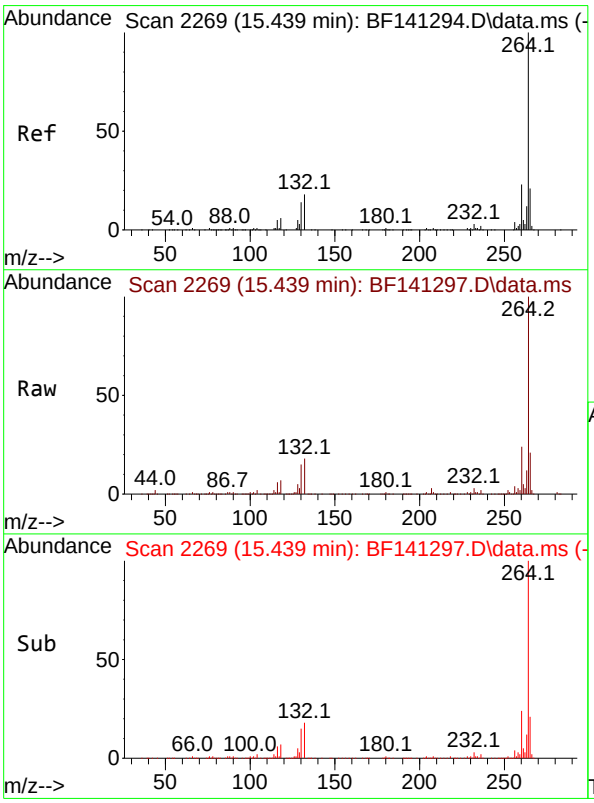
#85
Di-n-octyl phthalate
Concen: 82.148 ng
RT: 14.586 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:149 Resp: 1171131

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.7	9.8	14.8

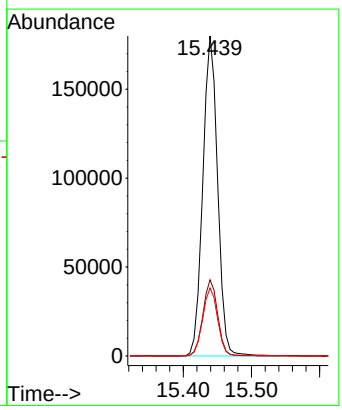


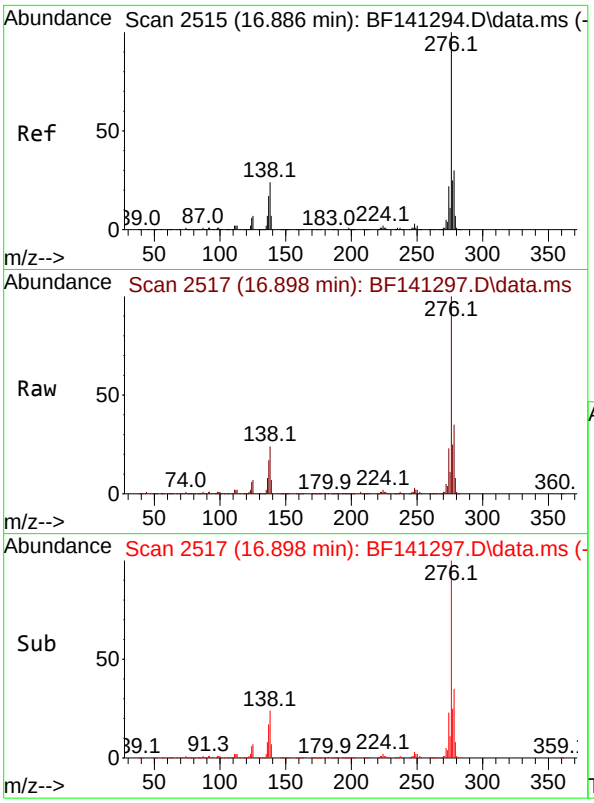


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:264 Resp: 271797

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	27.8
265	21.3	16.7	25.1



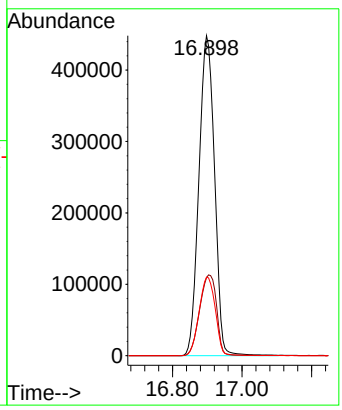


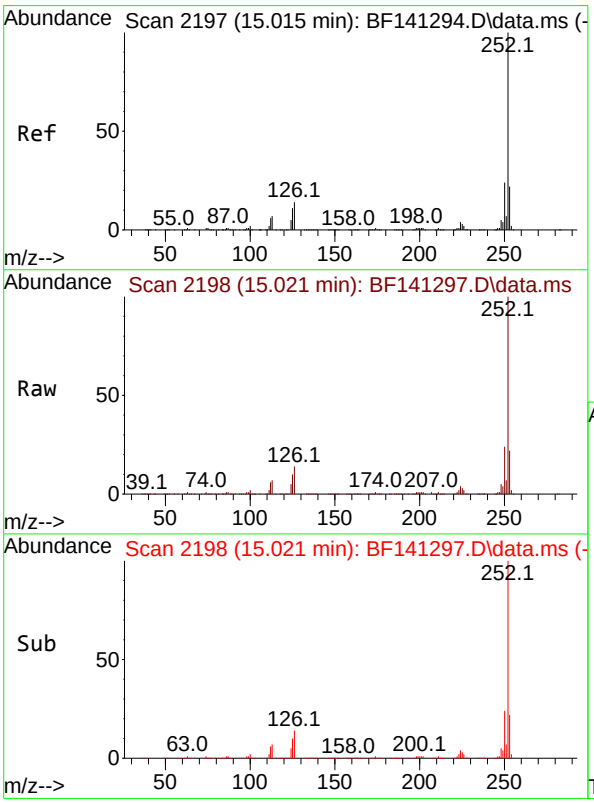
#87
Indeno(1,2,3-cd)pyrene
Concen: 79.715 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:276 Resp: 1399119

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.7	32.5
277	25.3	20.3	30.5

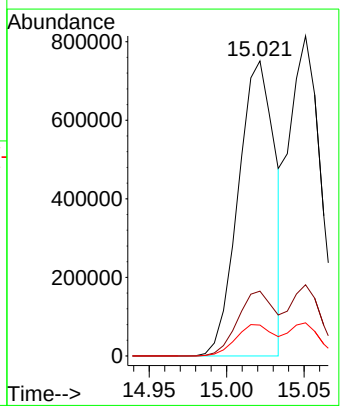


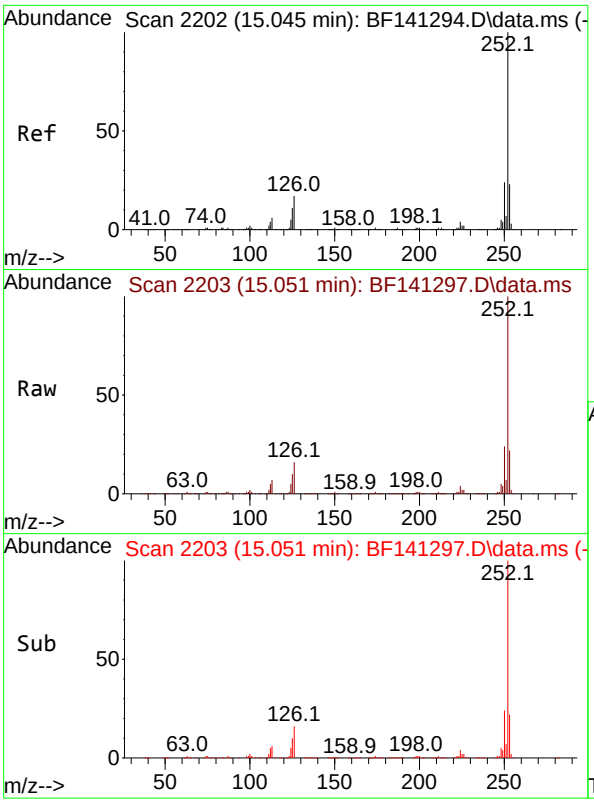


#88
Benzo(b)fluoranthene
Concen: 71.102 ng
RT: 15.021 min Scan# 2198
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:252 Resp: 1235245

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2
125	10.5	8.6	12.8



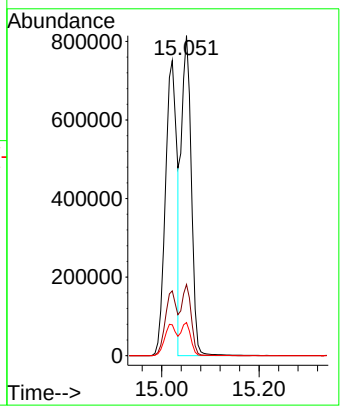


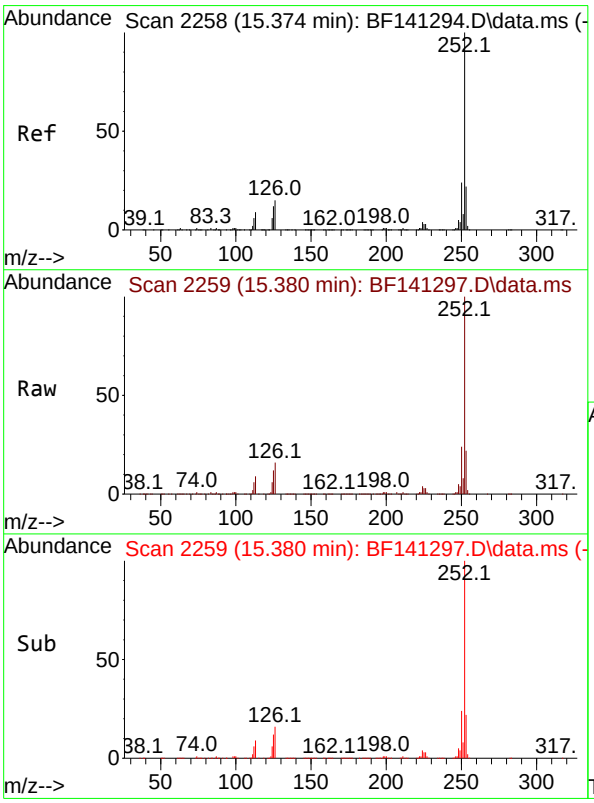
#89
Benzo(k)fluoranthene
Concen: 75.010 ng
RT: 15.051 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:252 Resp: 1146296

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	10.4	8.4	12.6

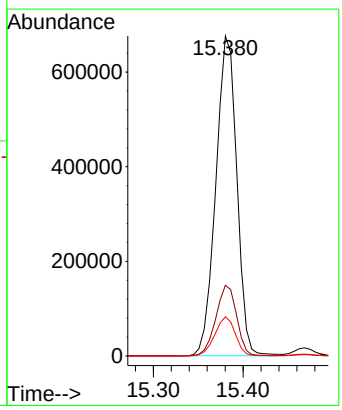


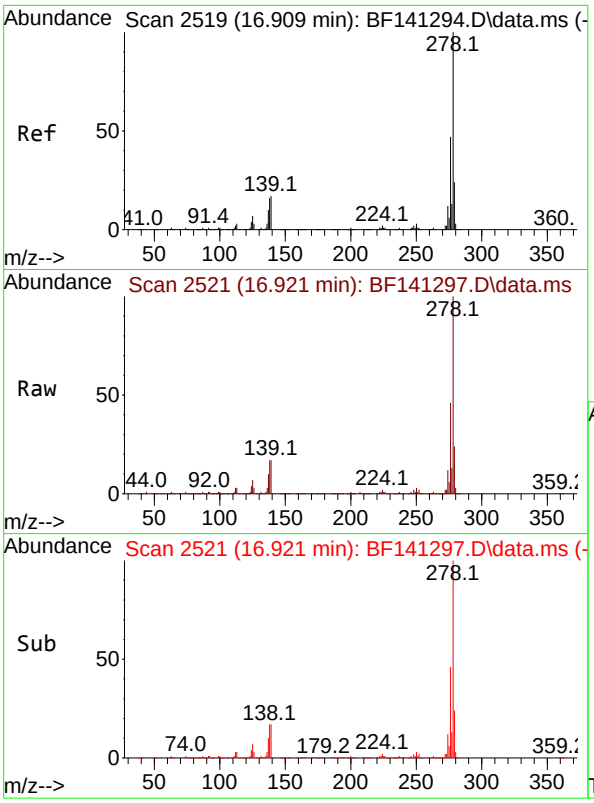


#90
Benzo(a)pyrene
Concen: 75.410 ng
RT: 15.380 min Scan# 2259
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:252 Resp: 1098491

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.2	25.8
125	12.3	9.4	14.2



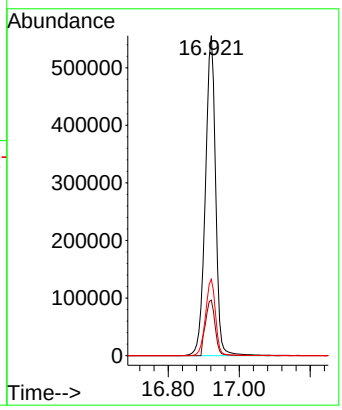


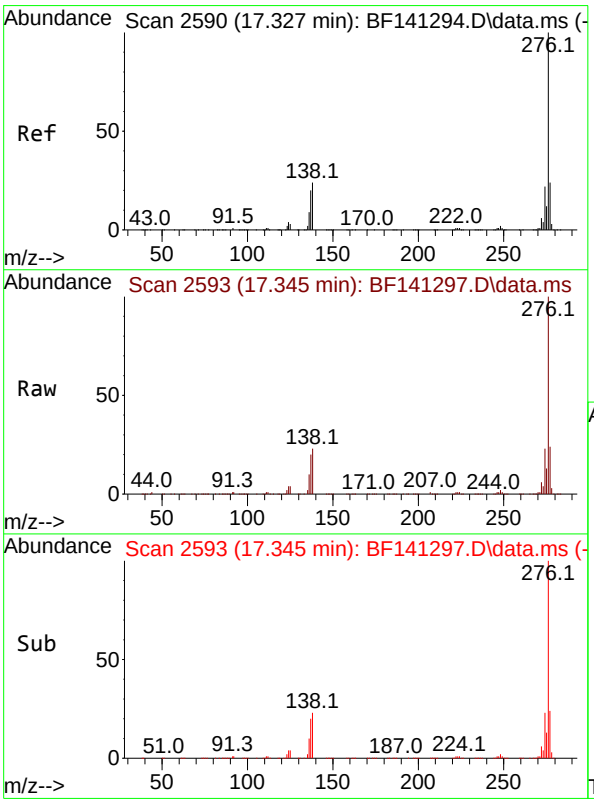
#91
Dibenzo(a,h)anthracene
Concen: 79.035 ng
RT: 16.921 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:278 Resp: 1117397

Ion	Ratio	Lower	Upper
278	100		
139	17.3	13.9	20.9
279	23.9	18.8	28.2

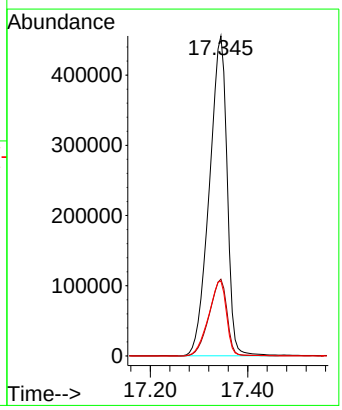




#92
Benzo(g,h,i)perylene
Concen: 78.512 ng
RT: 17.345 min Scan# 2593
Delta R.T. -0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:276 Resp: 1155250

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.2	28.8
138	23.4	19.0	28.4



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	133318	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	525644	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	279764	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	450291	20.000	ng	0.00
76) Chrysene-d12	13.969	240	257177	20.000	ng	0.00
86) Perylene-d12	15.421	264	279455	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	650985	74.963	ng	0.00
7) Phenol-d6	6.428	99	824574	74.641	ng	-0.01
23) Nitrobenzene-d5	7.363	82	754118	75.630	ng	0.00
42) 2,4,6-Tribromophenol	10.628	330	192773	75.161	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1325725	72.938	ng	0.00
79) Terphenyl-d14	12.910	244	1208358	72.460	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.487	88	142440	37.296	ng	100
3) Pyridine	3.216	79	353478	38.413	ng	100
4) n-Nitrosodimethylamine	3.169	42	199637	37.977	ng	100
6) Aniline	6.463	93	368792	39.437	ng	99
8) 2-Chlorophenol	6.581	128	349085	37.505	ng	99
9) Benzaldehyde	6.346	77	236537	36.965	ng	100
10) Phenol	6.440	94	443695	37.888	ng	99
11) bis(2-Chloroethyl)ether	6.534	93	335702	37.387	ng	100
12) 1,3-Dichlorobenzene	6.740	146	382682	37.288	ng	99
13) 1,4-Dichlorobenzene	6.816	146	390597	37.885	ng	99
14) 1,2-Dichlorobenzene	6.969	146	359529	37.241	ng	100
15) Benzyl Alcohol	6.940	79	286519	37.952	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	587637	37.636	ng	100
17) 2-Methylphenol	7.051	107	276450	36.544	ng	99
18) Hexachloroethane	7.310	117	144890	38.094	ng	99
19) n-Nitroso-di-n-propyla...	7.210	70	241878	36.848	ng	100
20) 3+4-Methylphenols	7.204	107	347046	37.364	ng	99
22) Acetophenone	7.210	105	458757	36.717	ng	100
24) Nitrobenzene	7.381	77	391907	37.927	ng	99
25) Isophorone	7.622	82	645309	37.439	ng	100
26) 2-Nitrophenol	7.698	139	186592	38.289	ng	99
27) 2,4-Dimethylphenol	7.734	122	236052m	38.055	ng	
28) bis(2-Chloroethoxy)met...	7.834	93	411851	37.460	ng	99
29) 2,4-Dichlorophenol	7.940	162	286090	37.675	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	316431	36.488	ng	100
31) Naphthalene	8.104	128	1030995	37.128	ng	100
32) Benzoic acid	7.845	122	236833	41.534	ng	99
33) 4-Chloroaniline	8.151	127	350423	37.214	ng	99
34) Hexachlorobutadiene	8.222	225	186523	36.676	ng	99
35) Caprolactam	8.522	113	93403	37.662	ng	97
36) 4-Chloro-3-methylphenol	8.634	107	305288	37.480	ng	99
37) 2-Methylnaphthalene	8.792	142	651222	36.898	ng	99
38) 1-Methylnaphthalene	8.892	142	651341	37.570	ng	99
40) 1,2,4,5-Tetrachloroben...	8.957	216	296277	37.226	ng	99
41) Hexachlorocyclopentadiene	8.945	237	93930	39.961	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	201214	38.625	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	209611	36.969	ng		100
46) 1,1'-Biphenyl	9.257	154	809694	37.111	ng		100
47) 2-Chloronaphthalene	9.281	162	626457	36.837	ng		100
48) 2-Nitroaniline	9.381	65	203104	37.970	ng		98
49) Acenaphthylene	9.698	152	890709	37.416	ng		100
50) Dimethylphthalate	9.563	163	697300	36.904	ng		100
51) 2,6-Dinitrotoluene	9.622	165	164343	37.459	ng		99
52) Acenaphthene	9.869	154	632756	37.206	ng		99
53) 3-Nitroaniline	9.792	138	164042	38.150	ng		98
54) 2,4-Dinitrophenol	9.892	184	81034	39.734	ng	#	85
55) Dibenzofuran	10.045	168	842555	37.012	ng		100
56) 4-Nitrophenol	9.945	139	122925	39.089	ng		99
57) 2,4-Dinitrotoluene	10.022	165	217705	38.327	ng		99
58) Fluorene	10.386	166	643639	36.451	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	169067	37.902	ng		99
60) Diethylphthalate	10.263	149	683674	37.316	ng		99
61) 4-Chlorophenyl-phenyle...	10.381	204	312065	36.180	ng		99
62) 4-Nitroaniline	10.404	138	159227	37.665	ng		99
63) Azobenzene	10.539	77	678905	37.020	ng		100
65) 4,6-Dinitro-2-methylph...	10.433	198	111635	41.913	ng		99
66) n-Nitrosodiphenylamine	10.498	169	564452	38.757	ng		99
67) 4-Bromophenyl-phenylether	10.869	248	199009	39.477	ng		98
68) Hexachlorobenzene	10.933	284	208171	38.929	ng		99
69) Atrazine	11.028	200	190958	39.215	ng		99
70) Pentachlorophenol	11.128	266	128300	40.973	ng		99
71) Phenanthrene	11.351	178	922625	38.117	ng		100
72) Anthracene	11.398	178	912703	38.484	ng		100
73) Carbazole	11.557	167	813036	38.661	ng		100
74) Di-n-butylphthalate	11.892	149	984759	38.639	ng		100
75) Fluoranthene	12.539	202	902637	37.768	ng		100
77) Benzidine	12.663	184	405163	49.142	ng		99
78) Pyrene	12.769	202	894269	36.225	ng		99
80) Butylbenzylphthalate	13.392	149	324793	37.660	ng		99
81) Benzo(a)anthracene	13.957	228	631556	35.587	ng		99
82) 3,3'-Dichlorobenzidine	13.921	252	218850	38.774	ng		99
83) Chrysene	13.992	228	610038	37.508	ng		100
84) Bis(2-ethylhexyl)phtha...	13.951	149	400642	36.620	ng		100
85) Di-n-octyl phthalate	14.569	149	642439	37.807	ng		99
87) Indeno(1,2,3-cd)pyrene	16.868	276	678653	37.626	ng		99
88) Benzo(b)fluoranthene	14.998	252	683111	38.861	ng		100
89) Benzo(k)fluoranthene	15.027	252	556960	35.766	ng		99
90) Benzo(a)pyrene	15.363	252	567574	38.209	ng		99
91) Dibenzo(a,h)anthracene	16.886	278	551534	38.007	ng		99
92) Benzo(g,h,i)perylene	17.304	276	559807	37.101	ng		99

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

ICAL Form

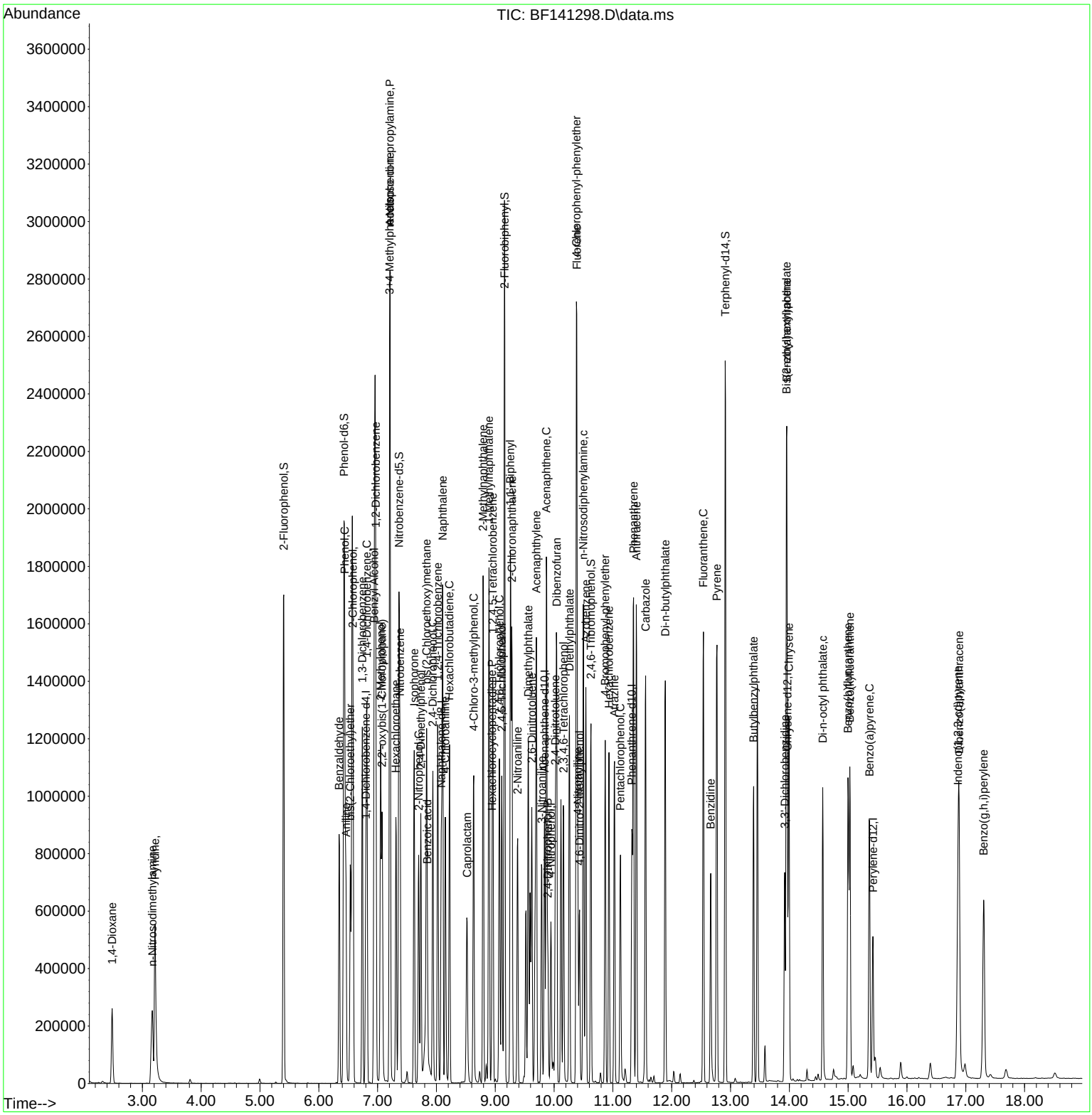
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

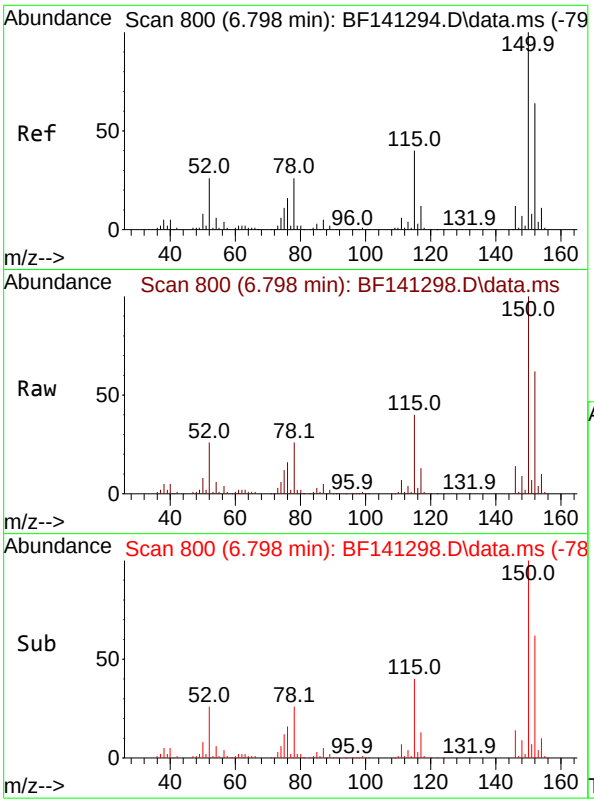
Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

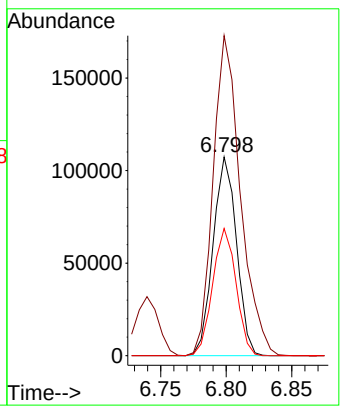




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:152 Resp: 13331

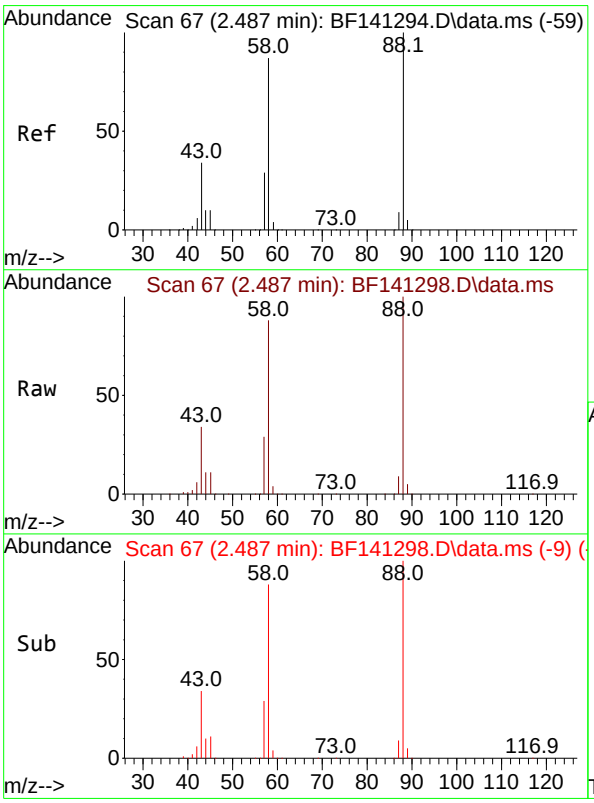
Ion	Ratio	Lower	Upper
152	100		
150	161.0	125.9	188.9
115	64.0	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

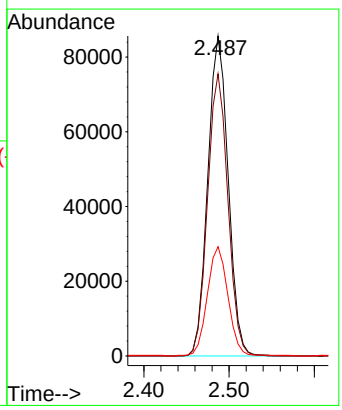
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

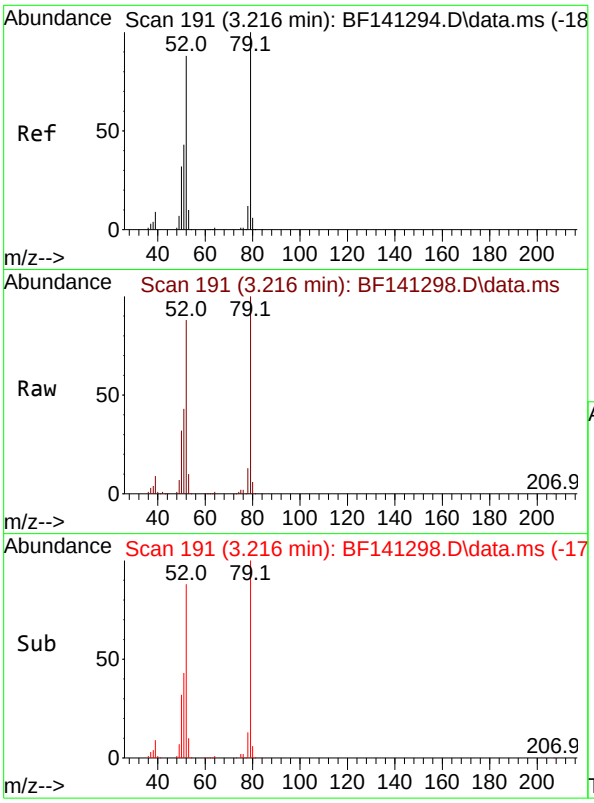


#2
1,4-Dioxane
Concen: 37.296 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 88 Resp: 142440

Ion	Ratio	Lower	Upper
88	100		
58	87.8	70.2	105.4
43	34.7	27.6	41.4

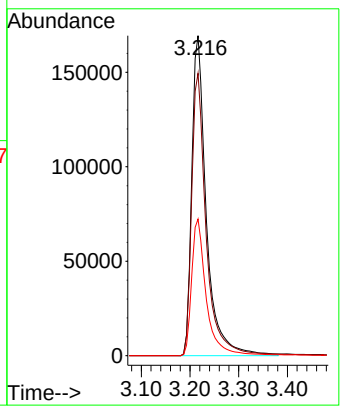




#3
Pyridine
Concen: 38.413 ng
RT: 3.216 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 79 Resp: 35347

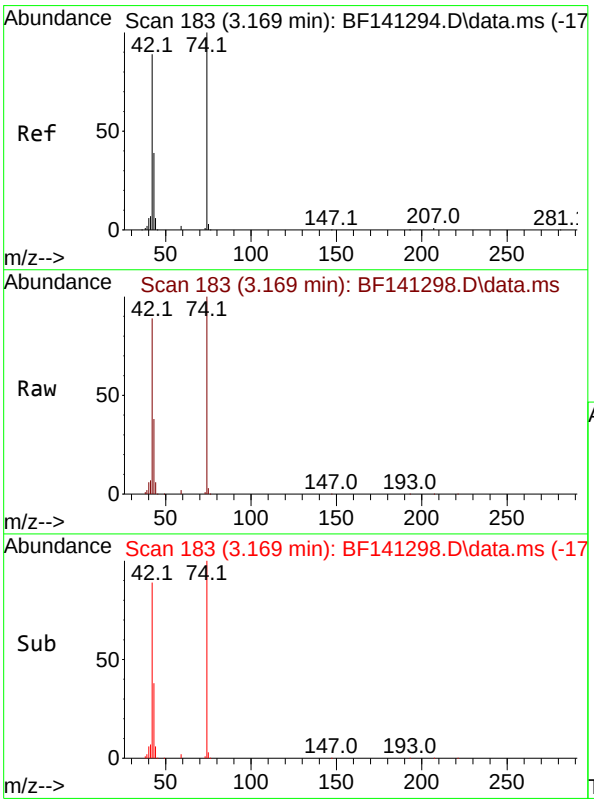
Ion	Ratio	Lower	Upper
79	100		
52	88.3	70.3	105.5
51	42.7	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

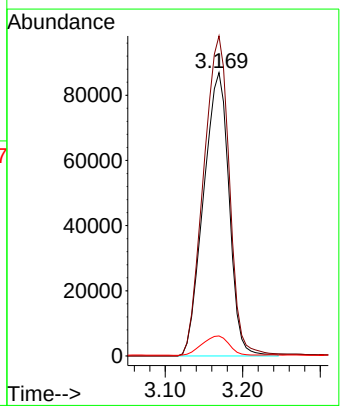
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

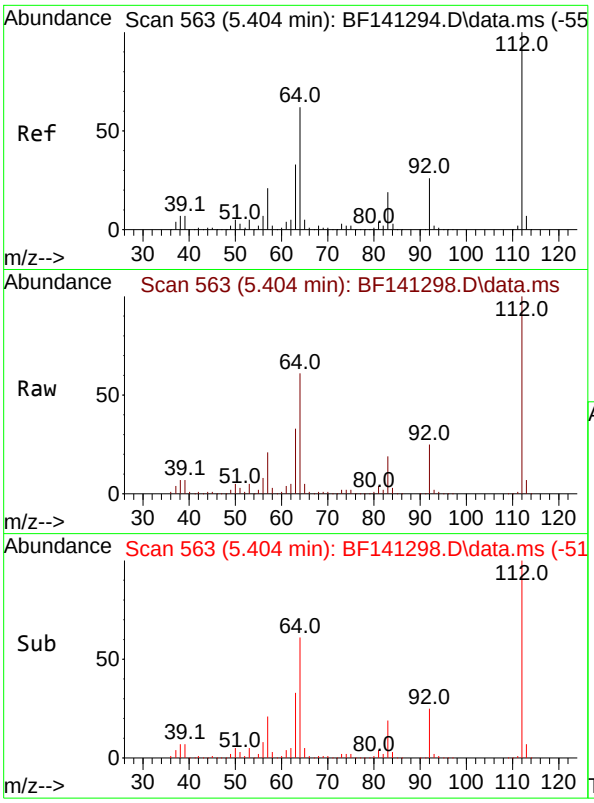


#4
n-Nitrosodimethylamine
Concen: 37.977 ng
RT: 3.169 min Scan# 183
Delta R.T. -0.029 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 42 Resp: 199637

Ion	Ratio	Lower	Upper
42	100		
74	112.9	90.3	135.5
44	7.1	5.7	8.5

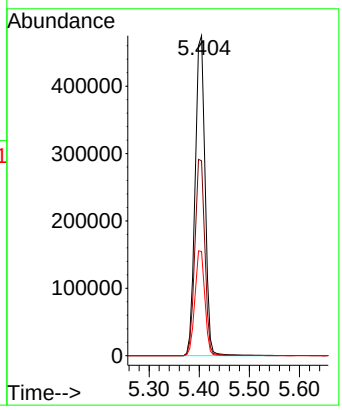




#5
2-Fluorophenol
Concen: 74.963 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:112 Resp: 65098

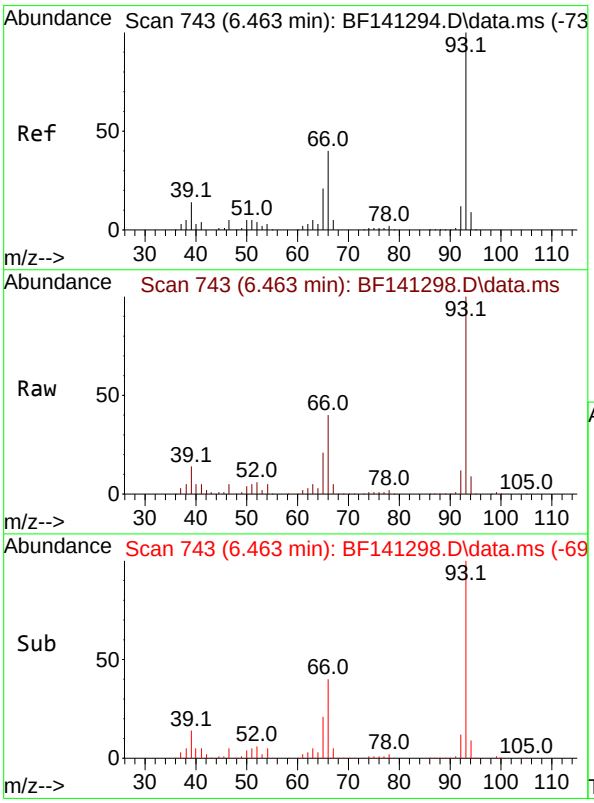
Ion	Ratio	Lower	Upper
112	100		
64	60.9	49.8	74.8
63	32.6	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

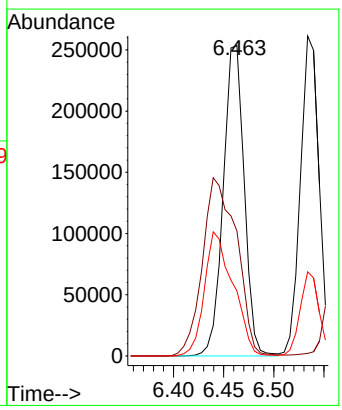
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

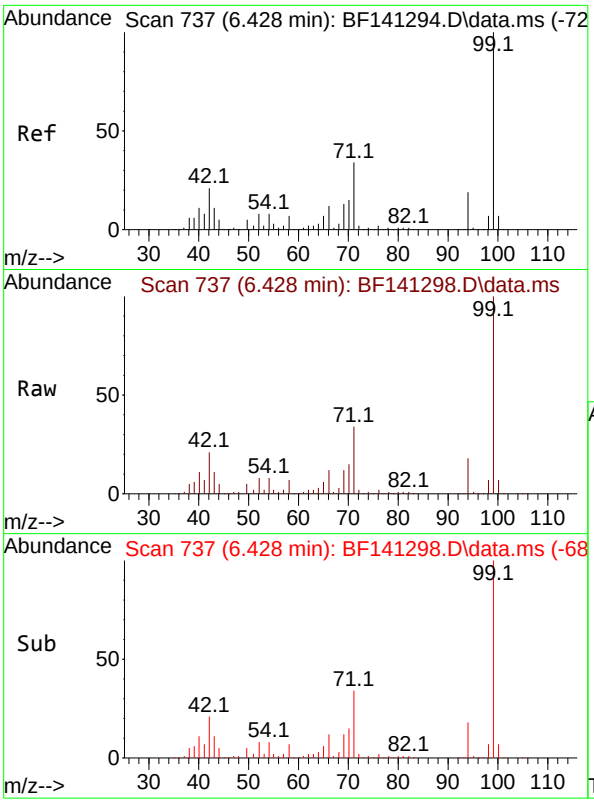


#6
Aniline
Concen: 39.437 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 93 Resp: 368792

Ion	Ratio	Lower	Upper
93	100		
66	40.3	32.5	48.7
65	20.9	17.0	25.6

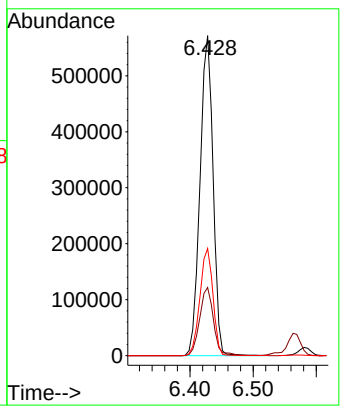




#7
Phenol-d6
Concen: 74.641 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 99 Resp: 82457

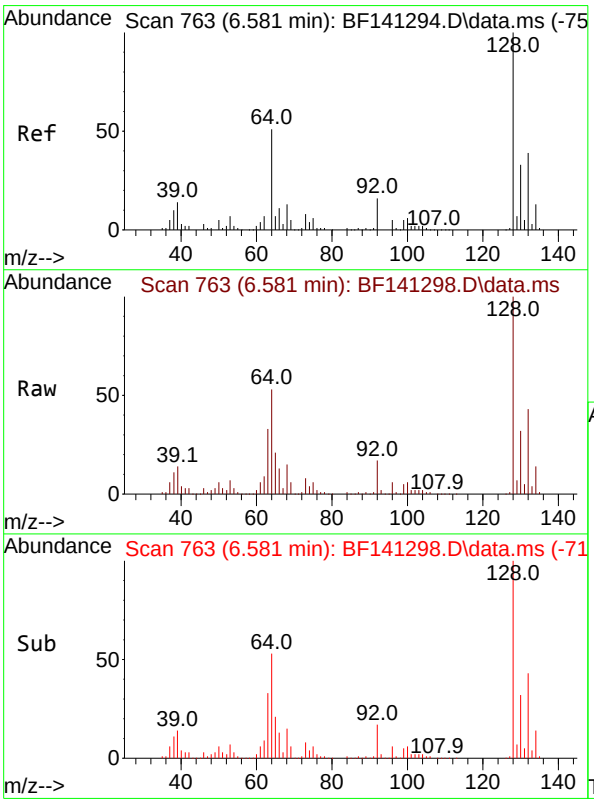
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.1	25.7
71	33.5	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

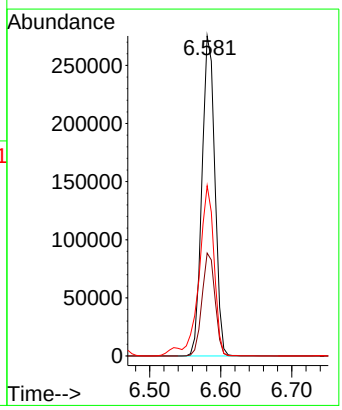
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

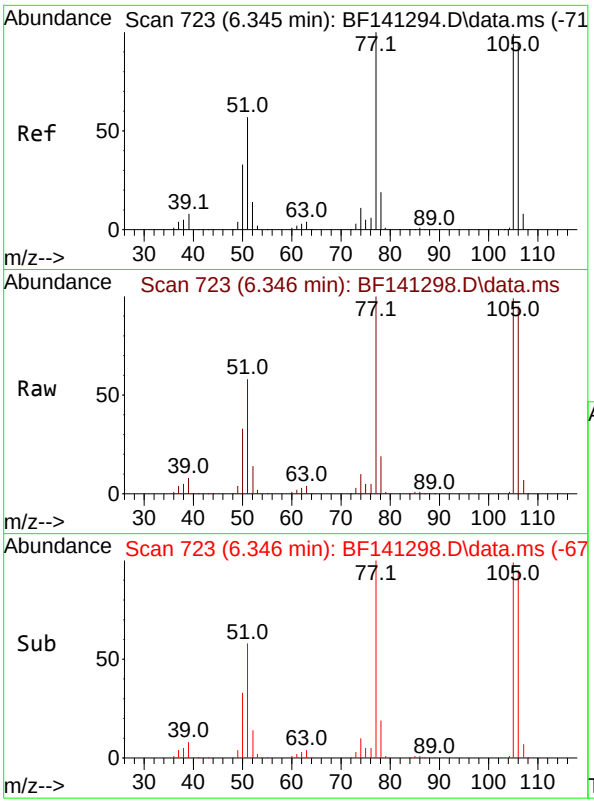


#8
2-Chlorophenol
Concen: 37.505 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:128 Resp: 349085

Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.5	52.5
64	53.2	32.9	72.9

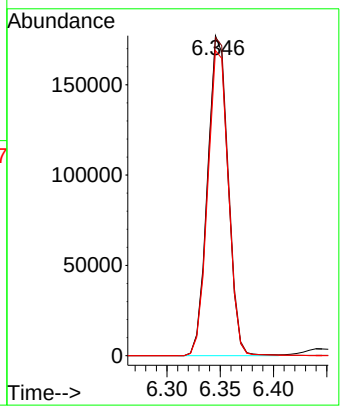




#9
Benzaldehyde
Concen: 36.965 ng
RT: 6.346 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 77 Resp: 23653

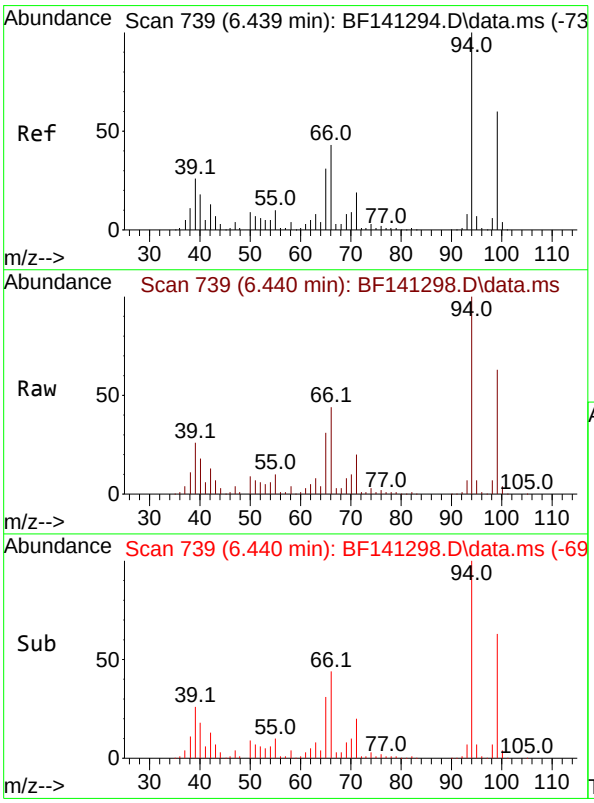
Ion	Ratio	Lower	Upper
77	100		
105	99.5	79.4	119.4
106	95.3	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

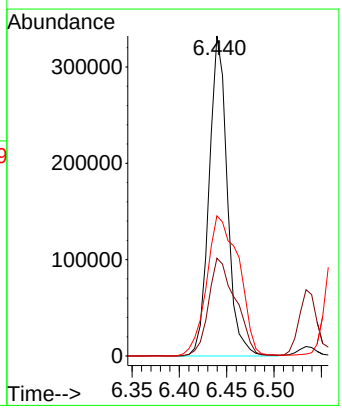
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

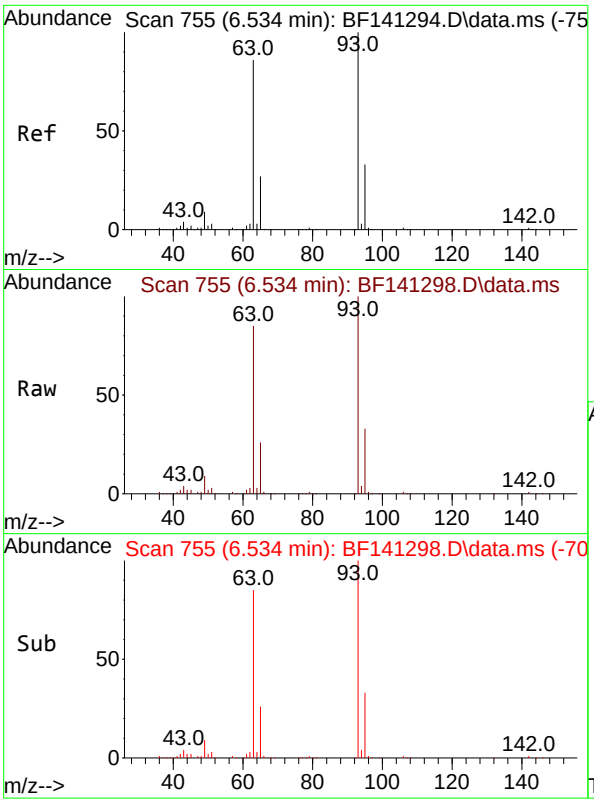


#10
Phenol
Concen: 37.888 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 94 Resp: 443695

Ion	Ratio	Lower	Upper
94	100		
65	30.5	10.8	50.8
66	43.8	23.3	63.3

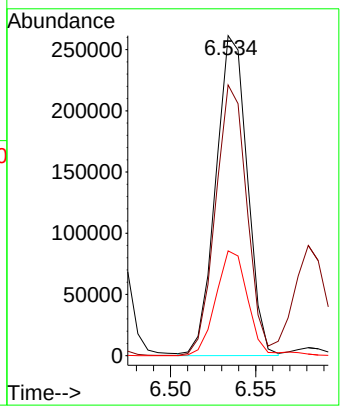




#11
bis(2-Chloroethyl)ether
Concen: 37.387 ng
RT: 6.534 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 93 Resp: 33570

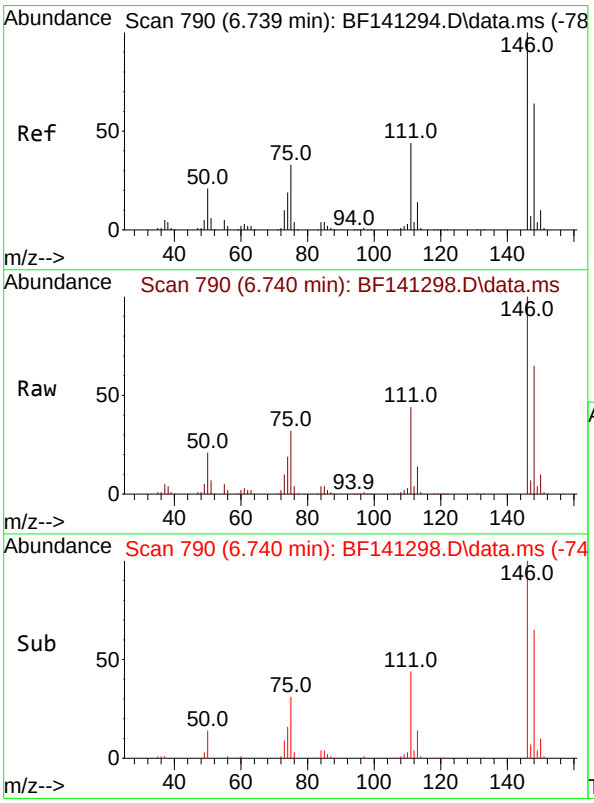
Ion	Ratio	Lower	Upper
93	100		
63	84.6	65.0	105.0
95	32.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

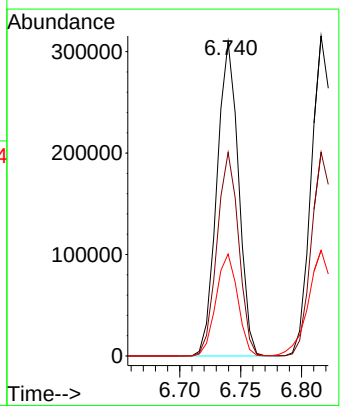
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

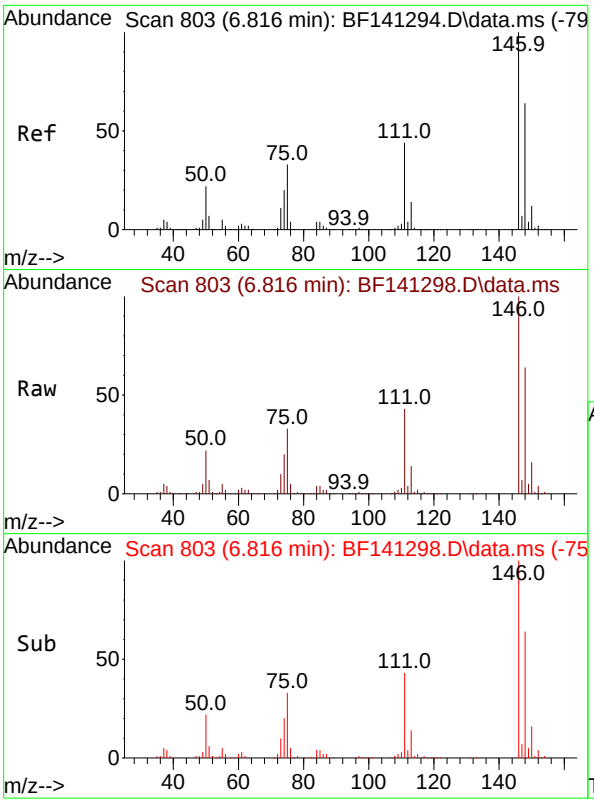


#12
1,3-Dichlorobenzene
Concen: 37.288 ng
RT: 6.740 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:146 Resp: 382682

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.2	76.8
75	32.4	26.2	39.4

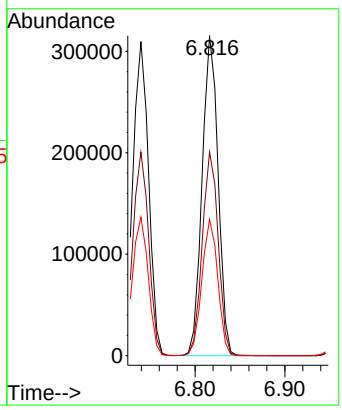




#13
1,4-Dichlorobenzene
Concen: 37.885 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:146 Resp: 39059

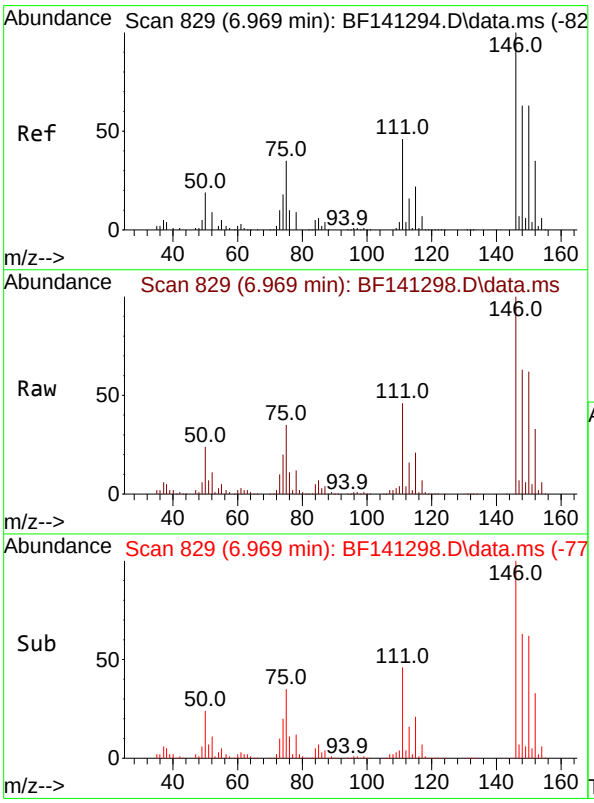
Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.2	76.8
111	42.5	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

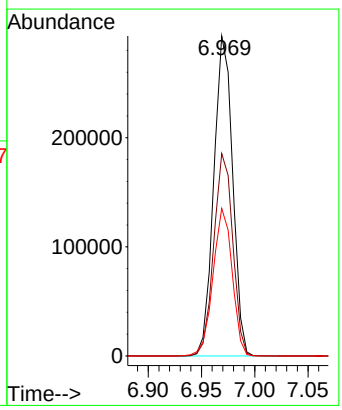
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

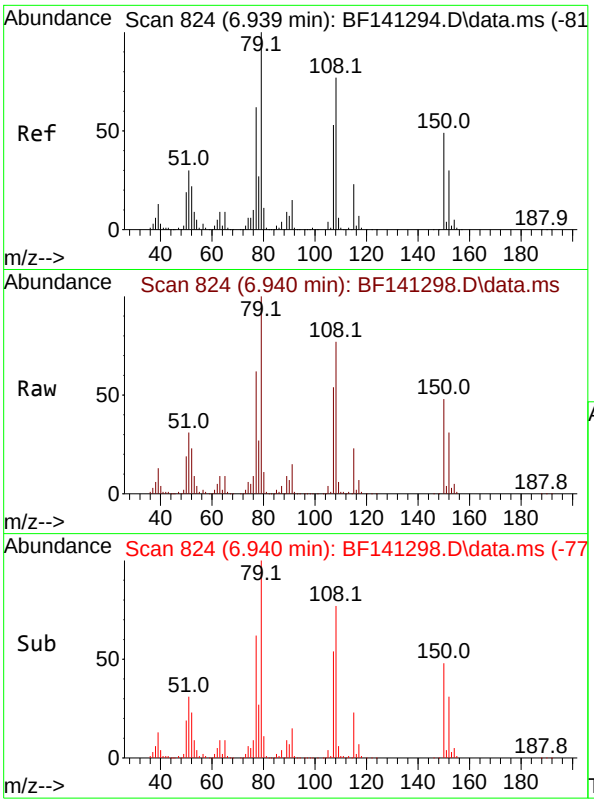


#14
1,2-Dichlorobenzene
Concen: 37.241 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:146 Resp: 359529

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.5	75.7
111	46.1	36.6	55.0

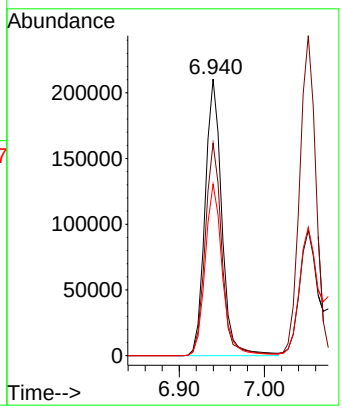




#15
Benzyl Alcohol
Concen: 37.952 ng
RT: 6.940 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 79 Resp: 28651

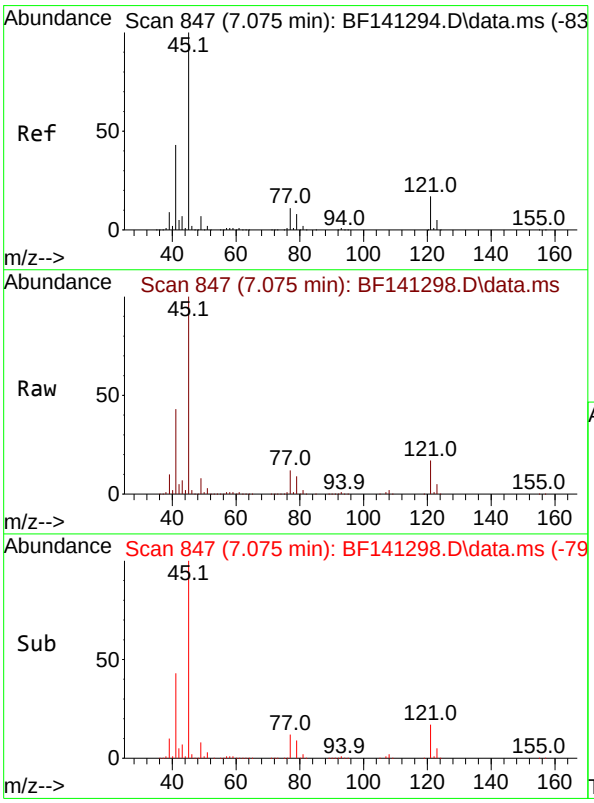
Ion	Ratio	Lower	Upper
79	100		
108	76.8	61.4	92.0
77	62.0	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

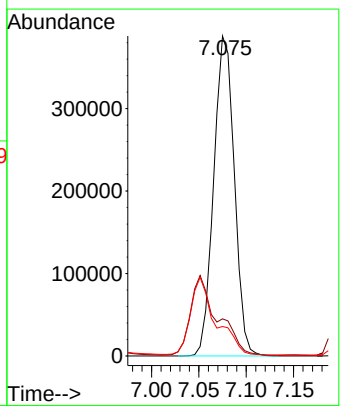
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

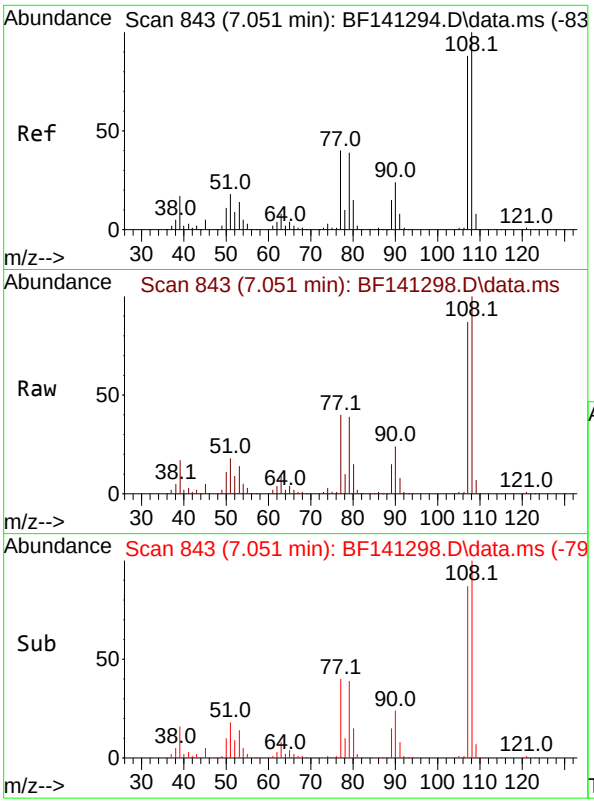


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.636 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 45 Resp: 587637

Ion	Ratio	Lower	Upper
45	100		
77	11.6	0.0	31.8
79	9.2	0.0	29.1

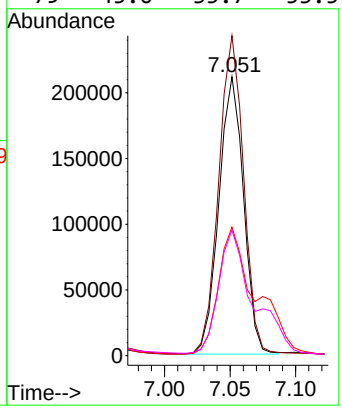




#17
2-Methylphenol
Concen: 36.544 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:107 Resp: 27645

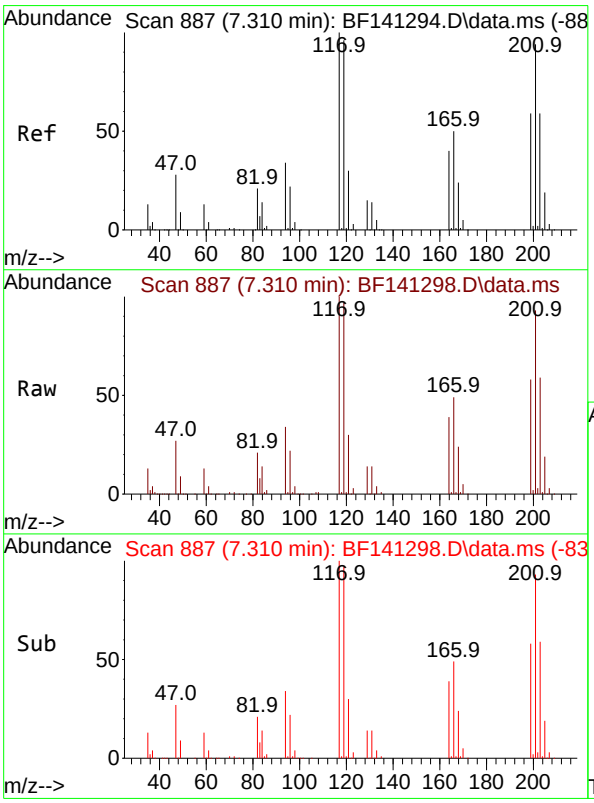
Ion	Ratio	Lower	Upper
107	100		
108	114.8	90.8	136.2
77	46.1	36.2	54.4
79	45.0	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

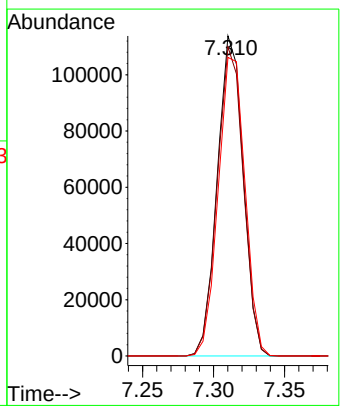
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

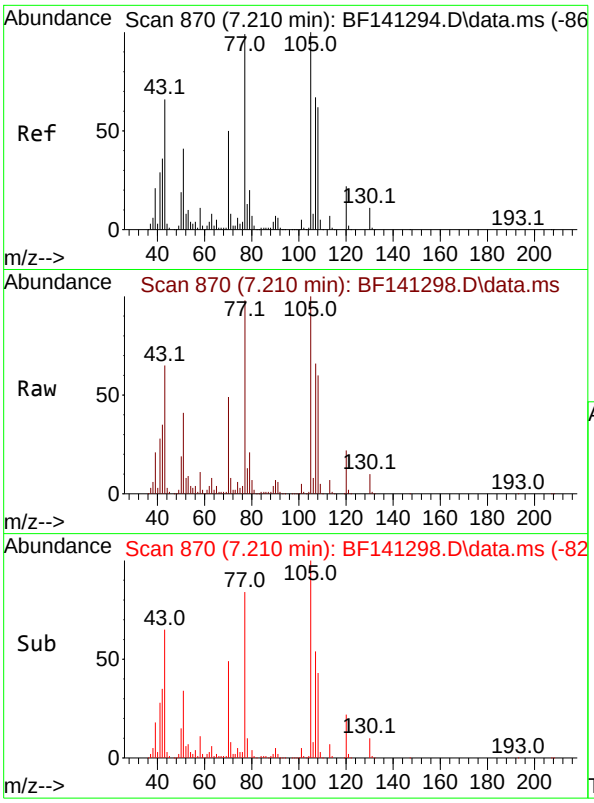


#18
Hexachloroethane
Concen: 38.094 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:117 Resp: 144890

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.6	114.8
201	93.3	74.8	112.2

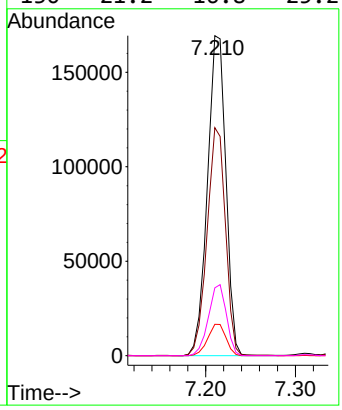




#19
n-Nitroso-di-n-propylamine
Concen: 36.848 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 70 Resp: 24187

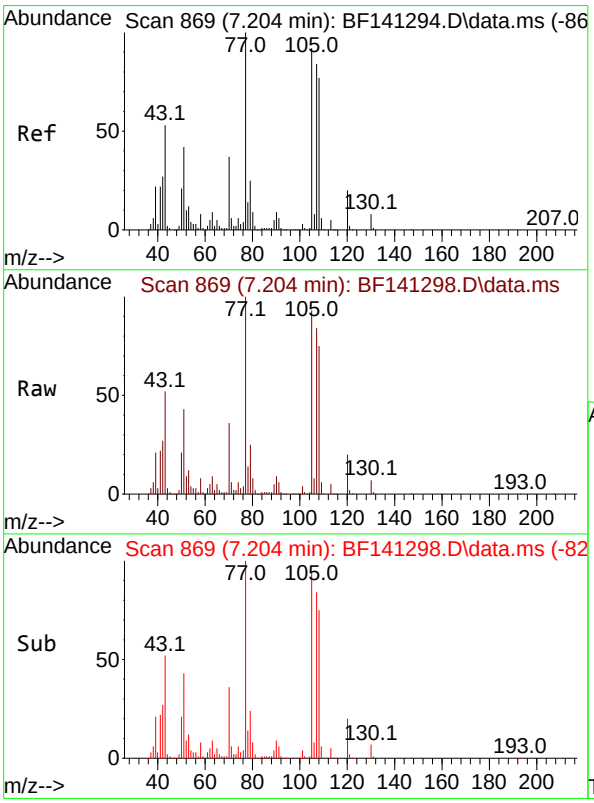
Ion	Ratio	Lower	Upper
70	100		
42	71.3	56.8	85.2
101	9.8	7.7	11.5
130	21.2	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

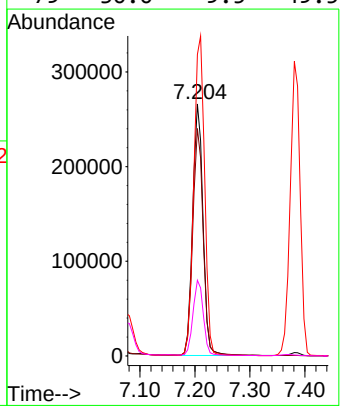
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

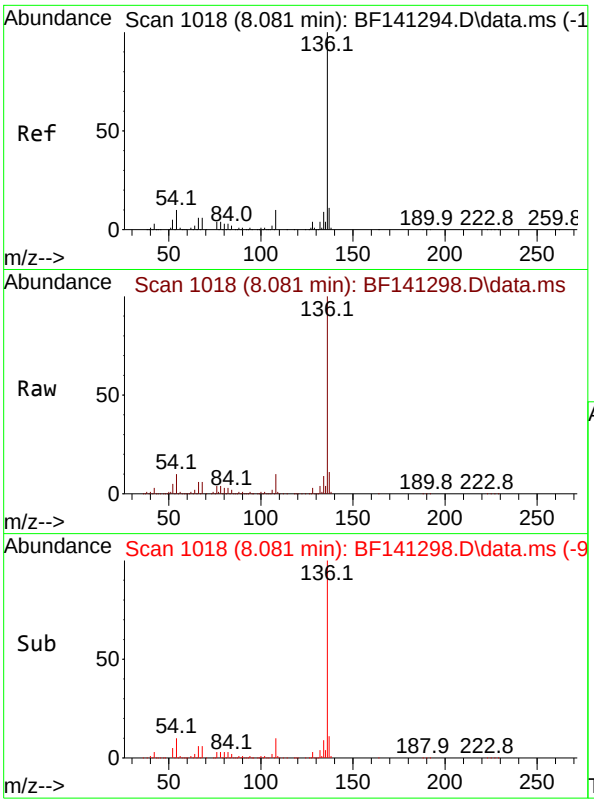


#20
3+4-Methylphenols
Concen: 37.364 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:107 Resp: 347046

Ion	Ratio	Lower	Upper
107	100		
108	90.2	70.9	110.9
77	119.7	98.5	138.5
79	30.0	9.5	49.5

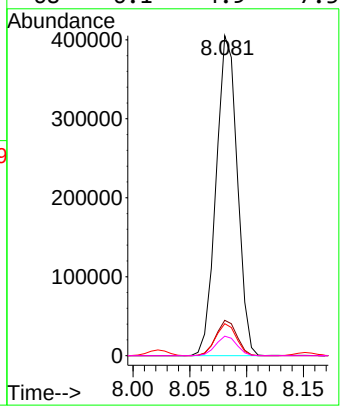




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:136 Resp: 52564

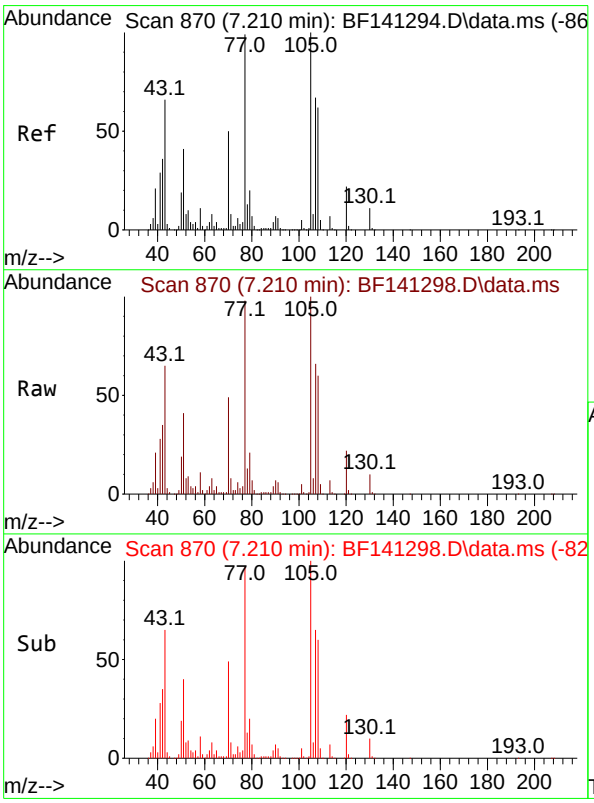
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	10.0	7.8	11.8
68	6.1	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

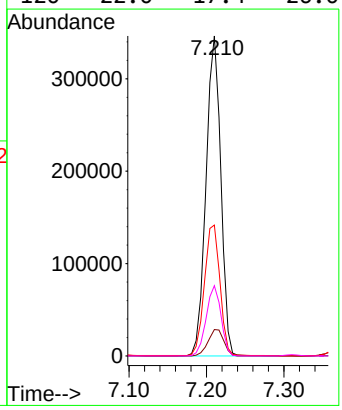
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

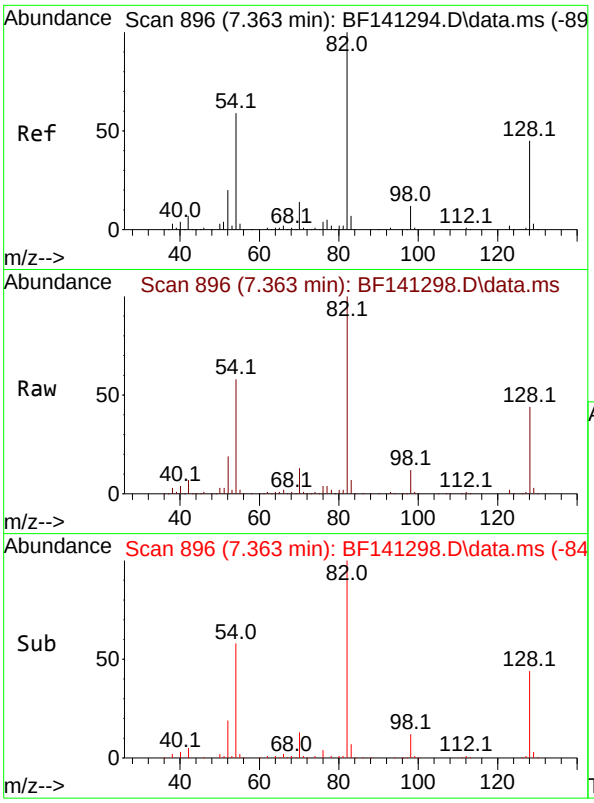


#22
Acetophenone
Concen: 36.717 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:105 Resp: 458757

Ion	Ratio	Lower	Upper
105	100		
71	8.3	6.8	10.2
51	40.9	32.6	49.0
120	22.0	17.4	26.0

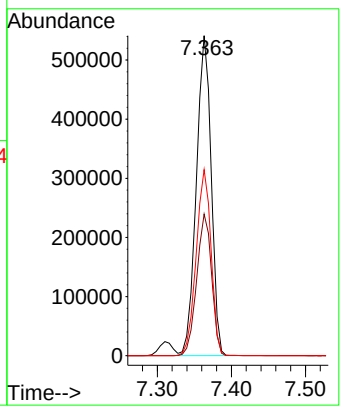




#23
Nitrobenzene-d5
Concen: 75.630 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 82 Resp: 75411

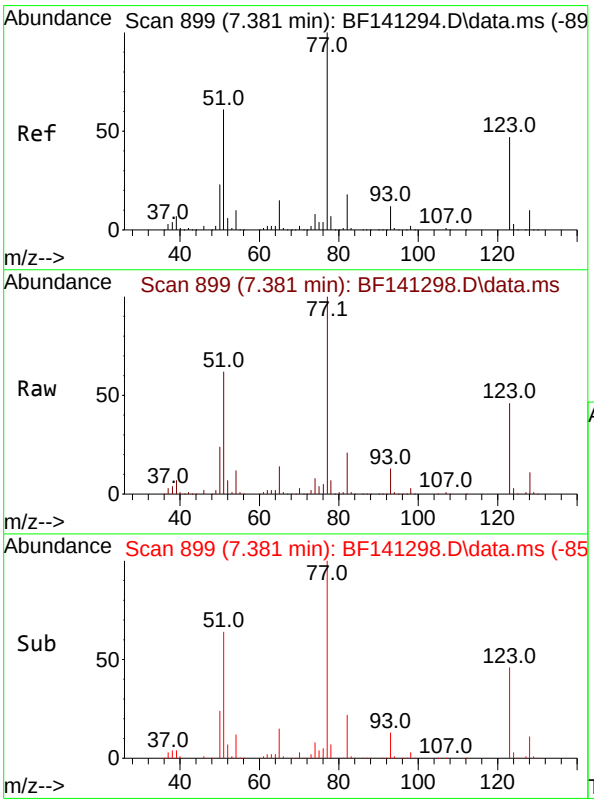
Ion	Ratio	Lower	Upper
82	100		
128	44.2	35.7	53.5
54	58.2	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

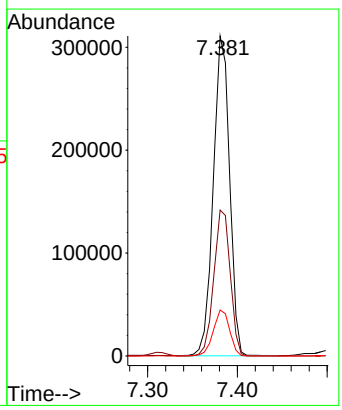
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

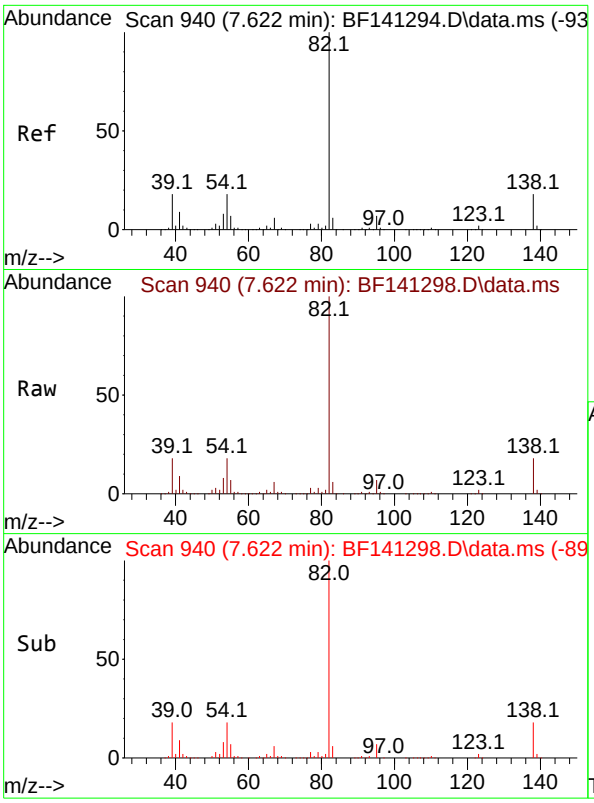


#24
Nitrobenzene
Concen: 37.927 ng
RT: 7.381 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 77 Resp: 391907

Ion	Ratio	Lower	Upper
77	100		
123	45.6	37.3	55.9
65	14.4	11.8	17.6

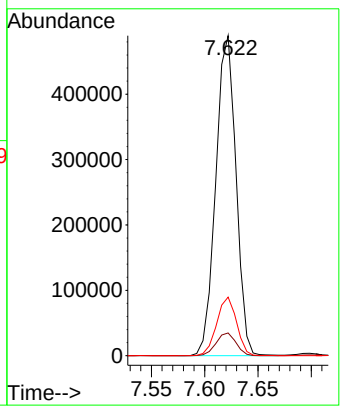




#25
Isophorone
Concen: 37.439 ng
RT: 7.622 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 82 Resp: 64530

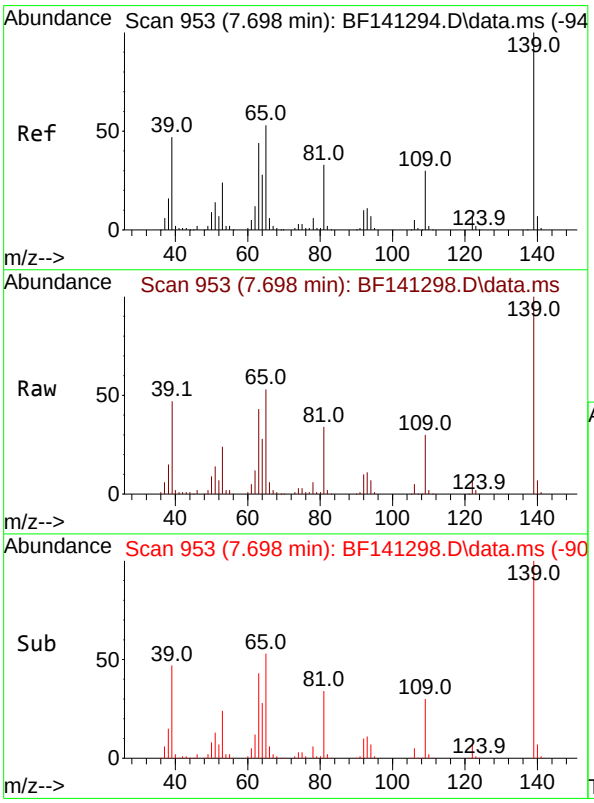
Ion	Ratio	Lower	Upper
82	100		
95	7.1	5.8	8.6
138	18.3	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

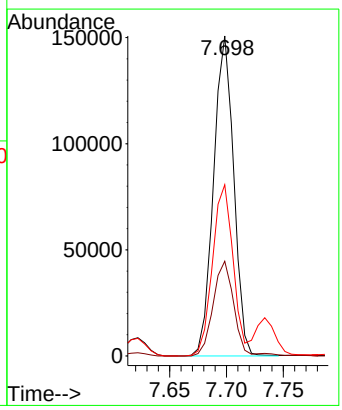
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

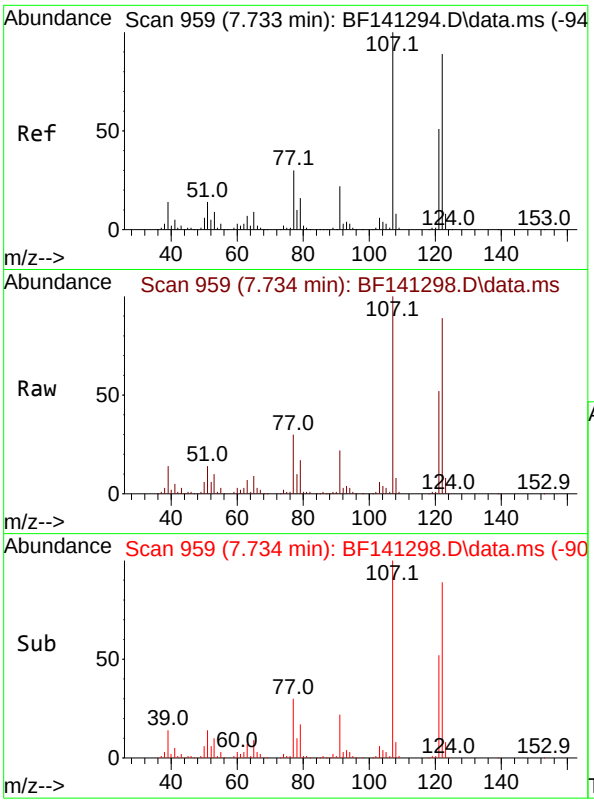


#26
2-Nitrophenol
Concen: 38.289 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:139 Resp: 186592

Ion	Ratio	Lower	Upper
139	100		
109	29.6	23.8	35.6
65	53.5	42.2	63.4

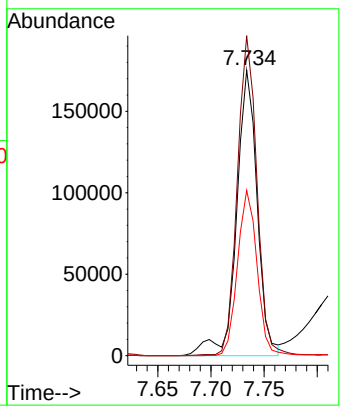




#27
2,4-Dimethylphenol
Concen: 38.055 ng m
RT: 7.734 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:122 Resp: 23605

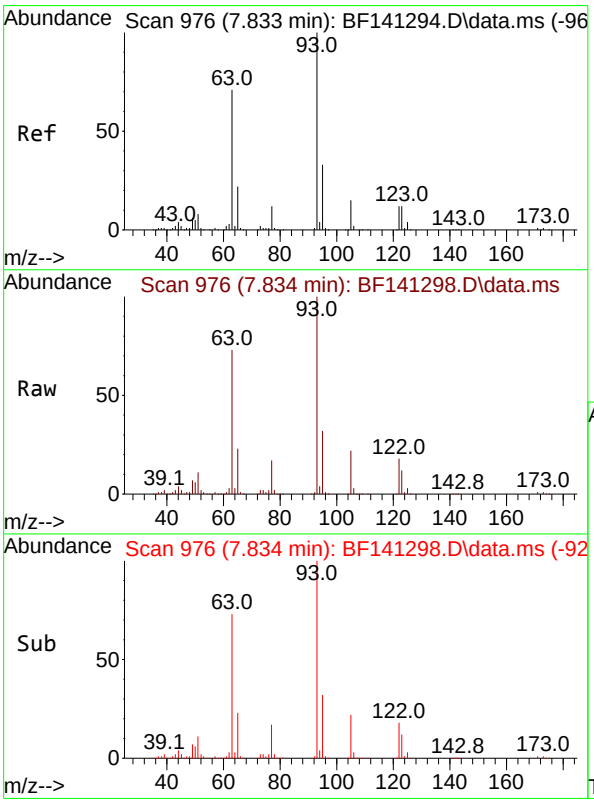
Ion	Ratio	Lower	Upper
122	100		
107	112.0	89.9	134.9
121	57.9	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

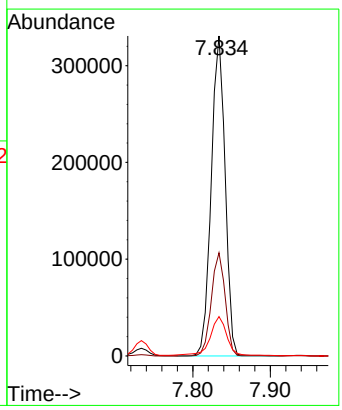
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

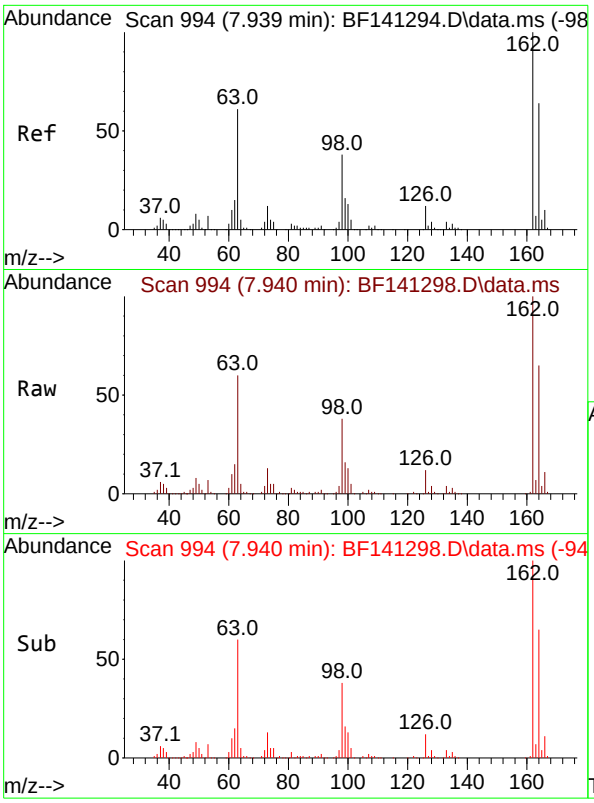


#28
bis(2-Chloroethoxy)methane
Concen: 37.460 ng
RT: 7.834 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 93 Resp: 411851

Ion	Ratio	Lower	Upper
93	100		
95	32.3	26.2	39.2
123	12.3	10.2	15.4

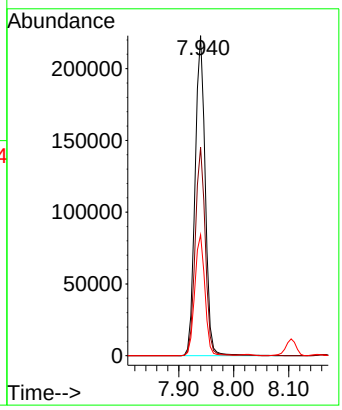




#29
2,4-Dichlorophenol
Concen: 37.675 ng
RT: 7.940 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:162 Resp: 28609

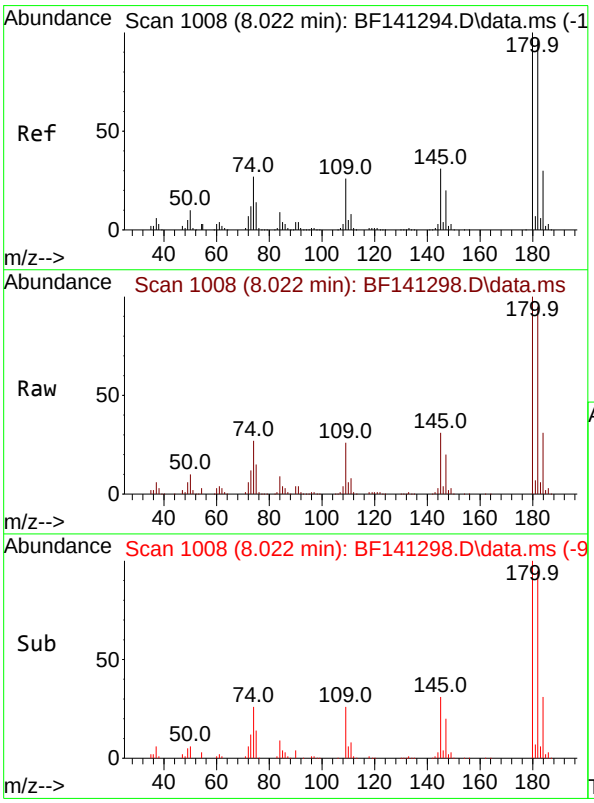
Ion	Ratio	Lower	Upper
162	100		
164	65.1	44.2	84.2
98	37.7	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

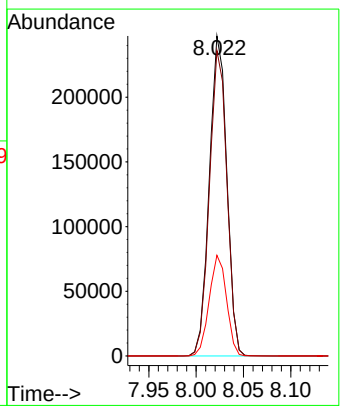
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

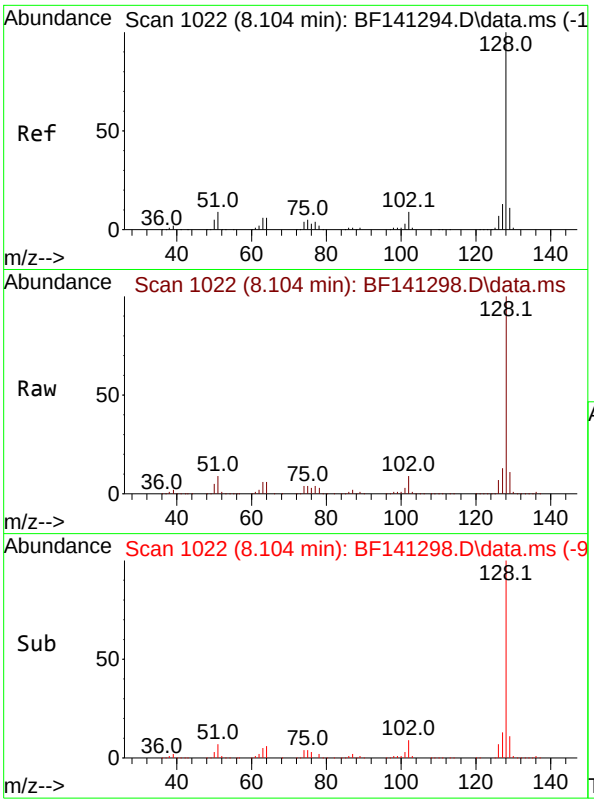


#30
1,2,4-Trichlorobenzene
Concen: 36.488 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:180 Resp: 316431

Ion	Ratio	Lower	Upper
180	100		
182	95.4	76.4	114.6
145	31.4	24.9	37.3

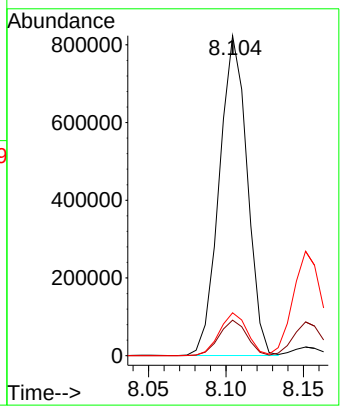




#31
Naphthalene
Concen: 37.128 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:128 Resp: 103099

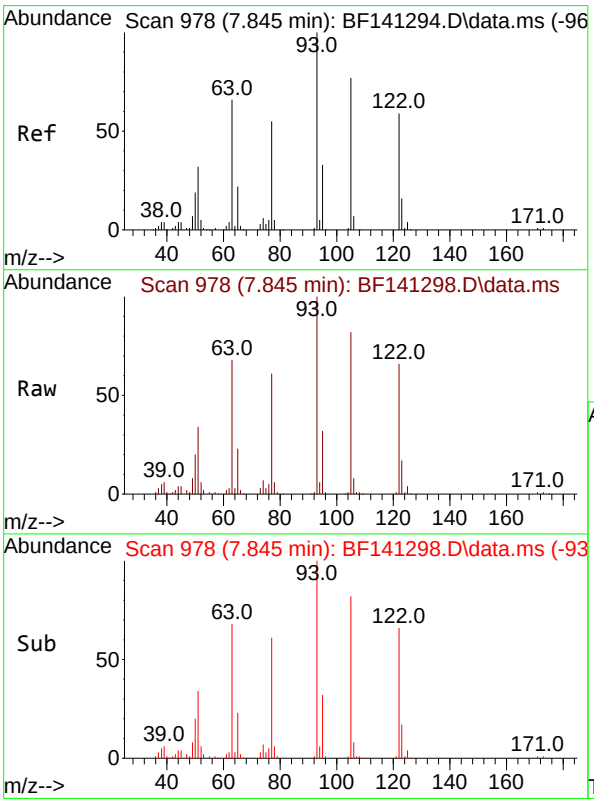
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

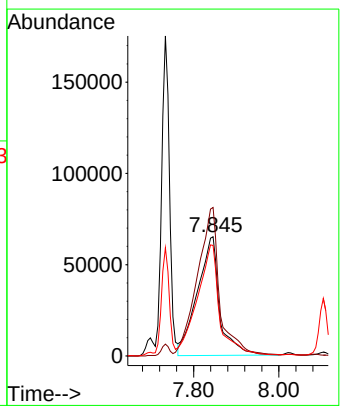
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

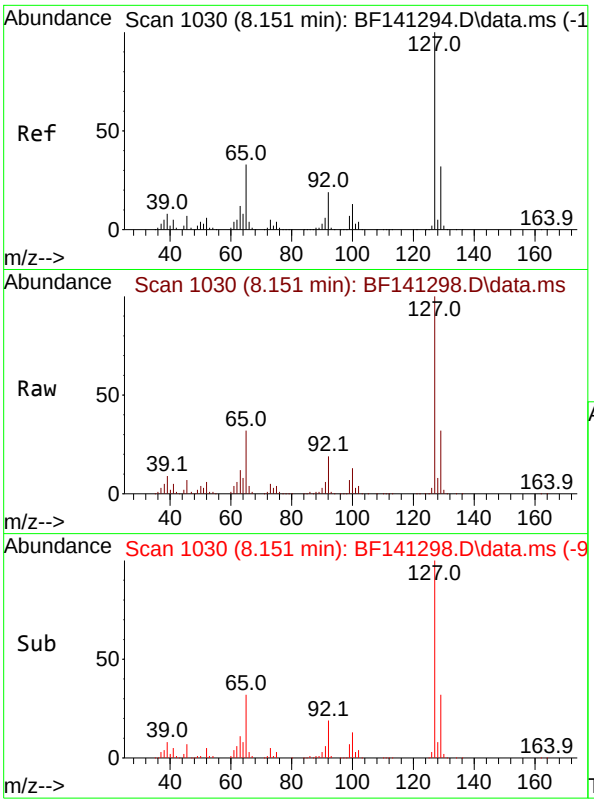


#32
Benzoic acid
Concen: 41.534 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.035 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:122 Resp: 236833

Ion	Ratio	Lower	Upper
122	100		
105	124.7	103.4	143.4
77	92.8	70.9	110.9

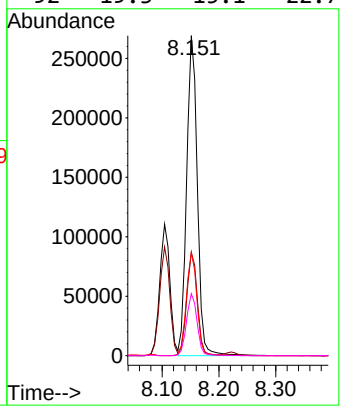




#33
4-Chloroaniline
Concen: 37.214 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:127 Resp: 35042

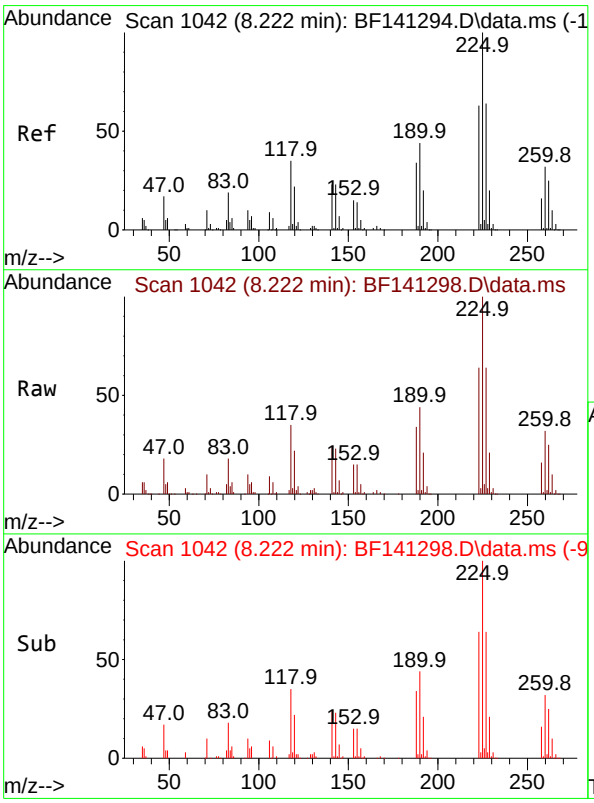
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	32.3	26.4	39.6
92	19.3	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

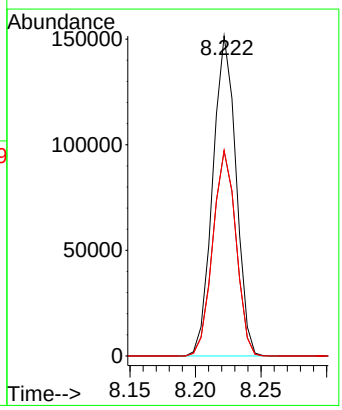
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

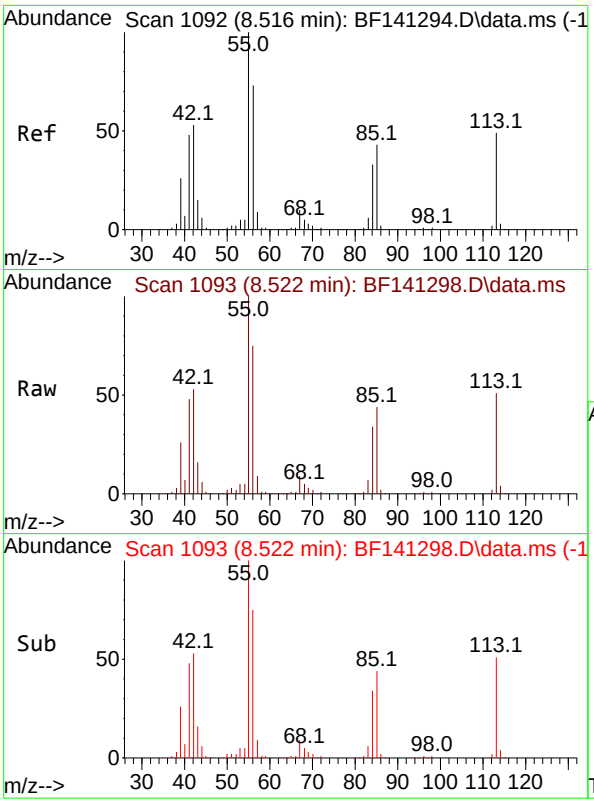


#34
Hexachlorobutadiene
Concen: 36.676 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:225 Resp: 186523

Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.4	75.6
227	64.2	51.3	76.9





#35
Caprolactam
Concen: 37.662 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

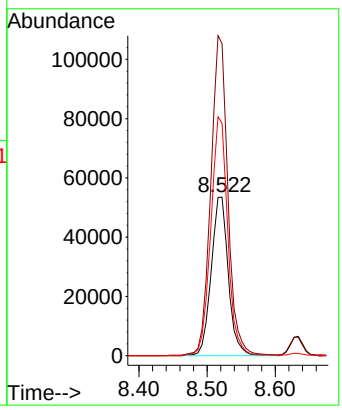
Tgt Ion:113 Resp: 9340

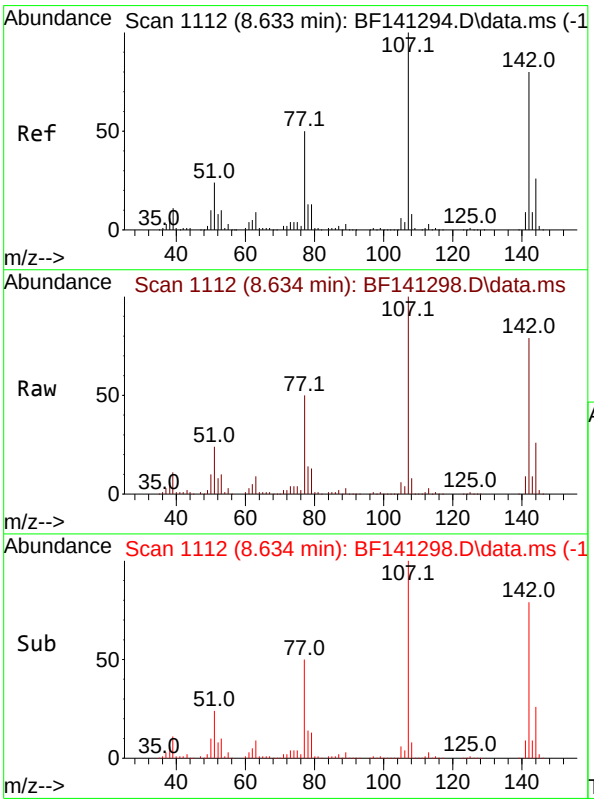
Ion	Ratio	Lower	Upper
113	100		
55	196.8	182.9	222.9
56	146.7	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

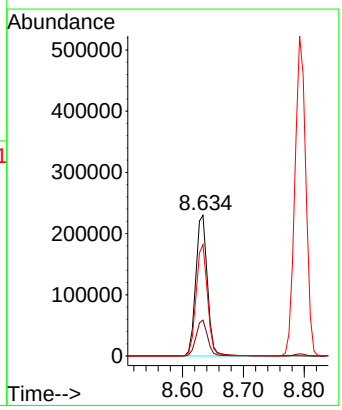


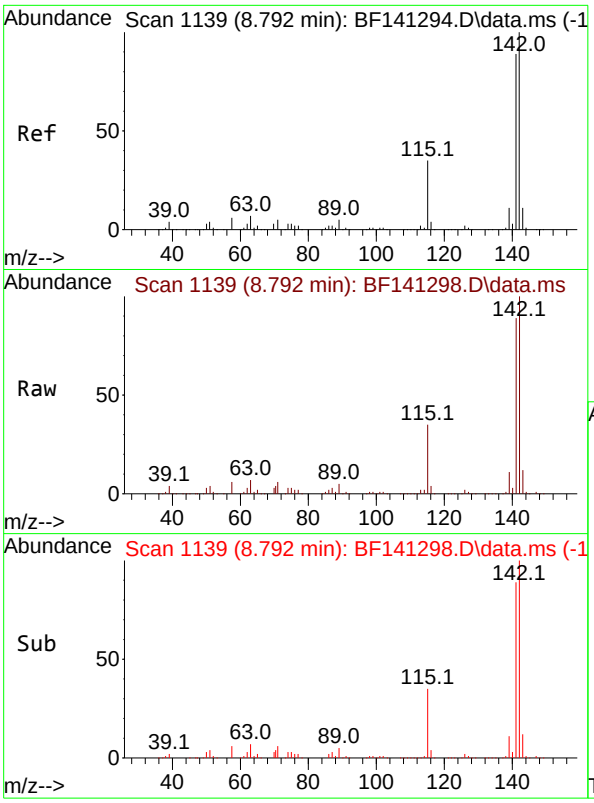


#36
4-Chloro-3-methylphenol
Concen: 37.480 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:107 Resp: 305288

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.7	31.1
142	79.1	63.8	95.8





#37
2-Methylnaphthalene
Concen: 36.898 ng
RT: 8.792 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

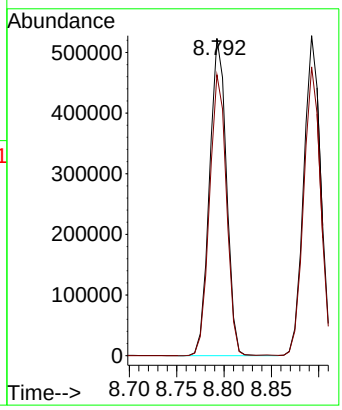
Tgt Ion:142 Resp: 65122

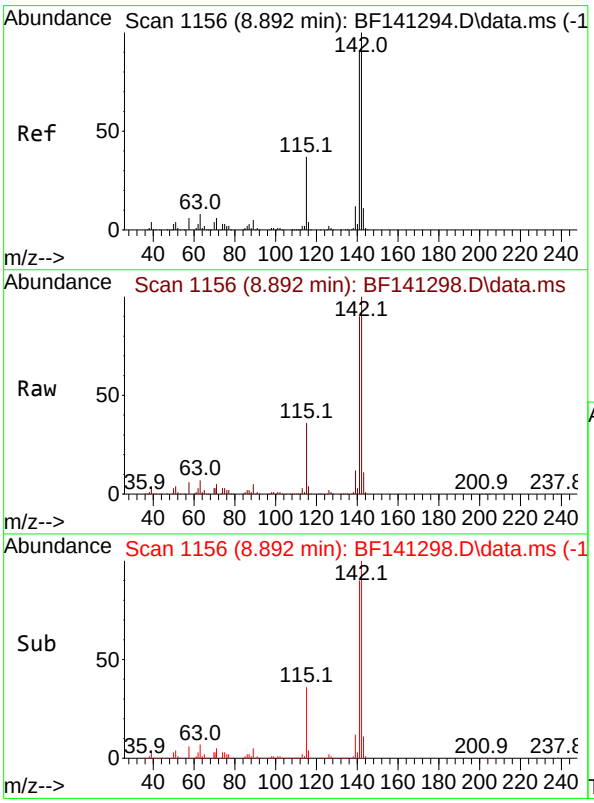
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

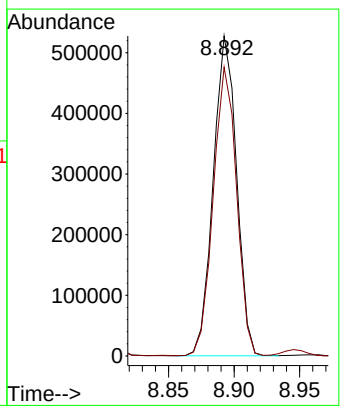


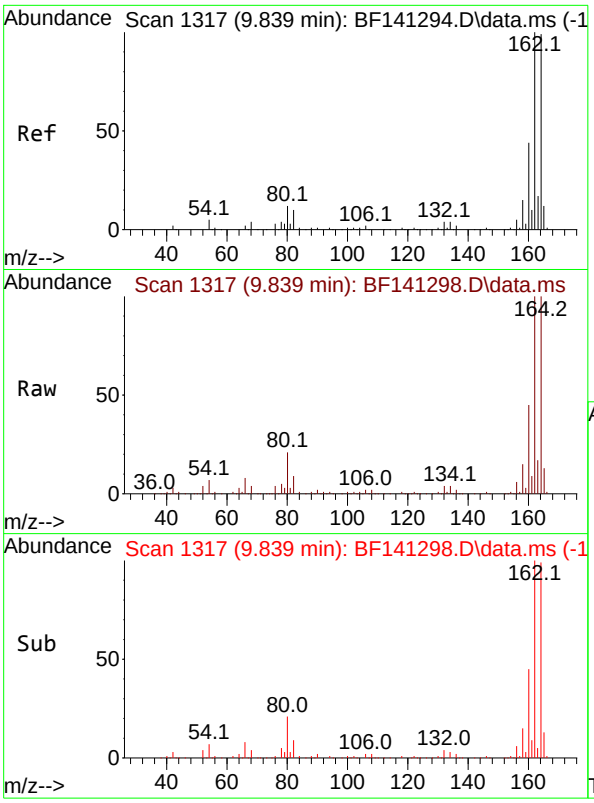


#38
1-Methylnaphthalene
Concen: 37.570 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:142 Resp: 651341

Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.2	109.8





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

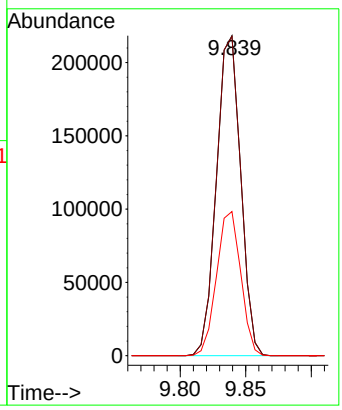
Instrument :
BNA_F
ClientSampleId :
ICVBF012925

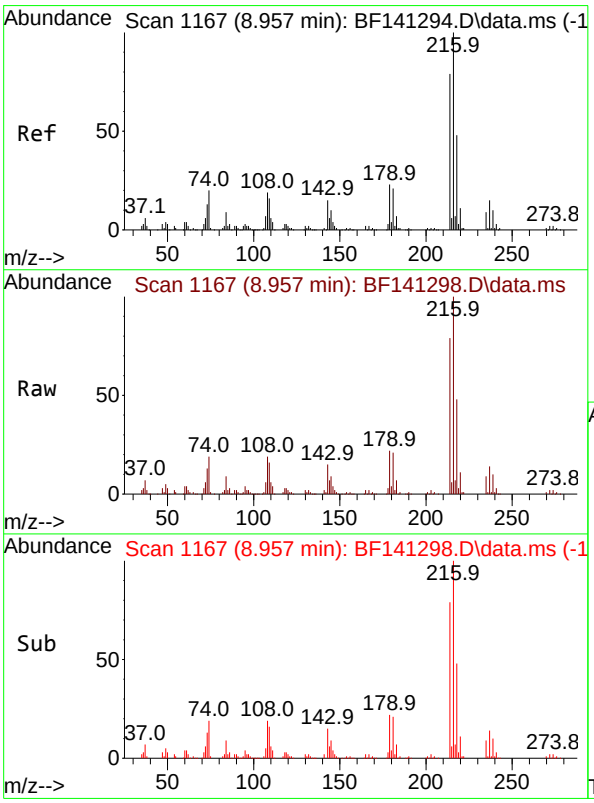
Tgt Ion:164 Resp: 27976

Ion	Ratio	Lower	Upper
164	100		
162	99.8	80.6	121.0
160	45.1	35.8	53.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

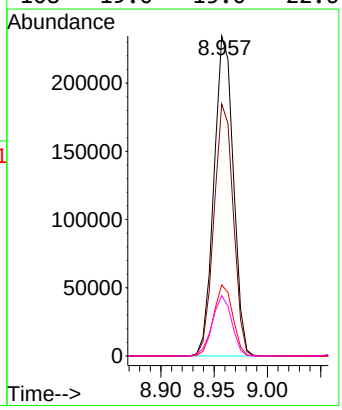


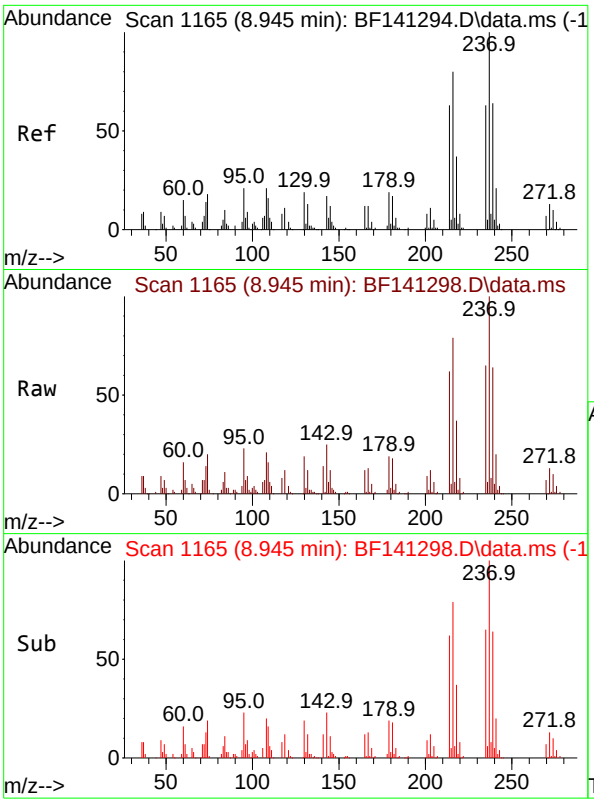


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.226 ng
RT: 8.957 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:216 Resp: 296277

Ion	Ratio	Lower	Upper
216	100		
214	78.4	63.2	94.8
179	22.0	17.8	26.8
108	19.0	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 39.961 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

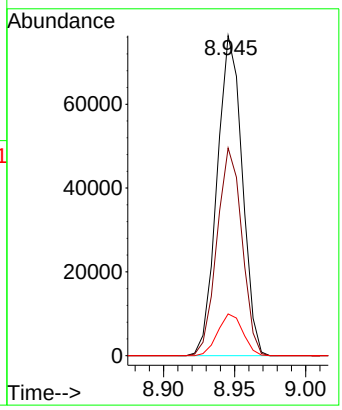
Tgt Ion:237 Resp: 9393

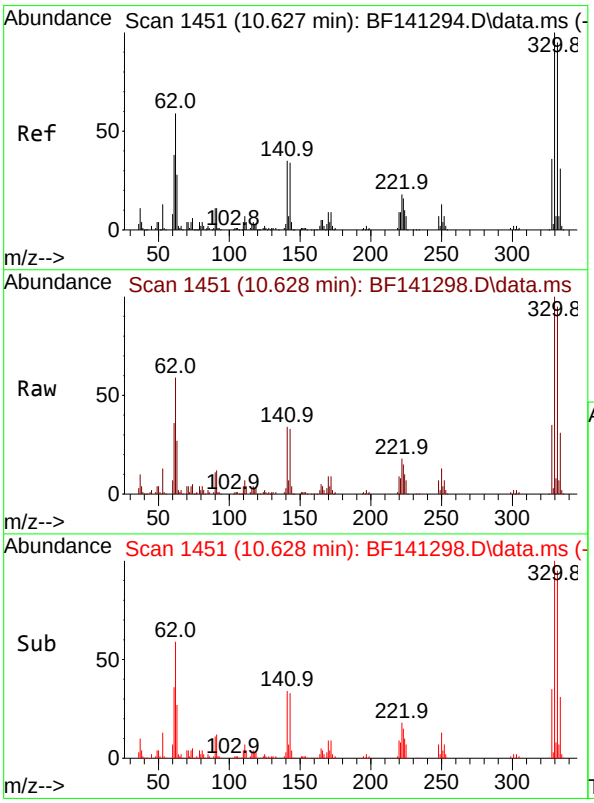
Ion	Ratio	Lower	Upper
237	100		
235	64.9	42.9	82.9
272	13.1	0.0	32.8

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

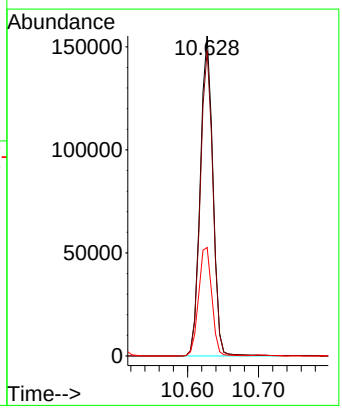


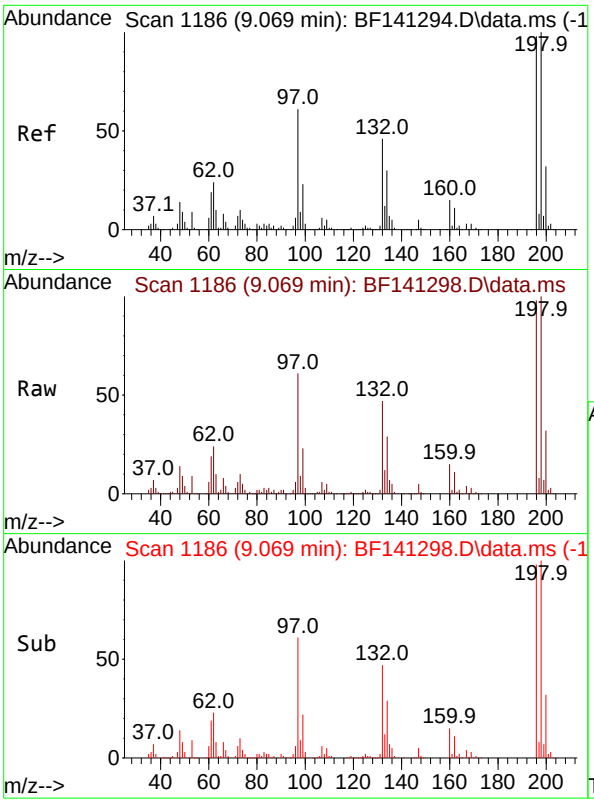


#42
2,4,6-Tribromophenol
Concen: 75.161 ng
RT: 10.628 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:330 Resp: 192773

Ion	Ratio	Lower	Upper
330	100		
332	95.5	76.1	114.1
141	35.5	28.8	43.2

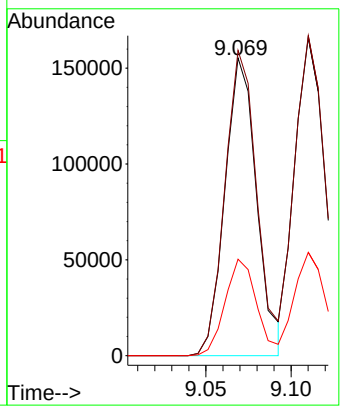




#43
2,4,6-Trichlorophenol
Concen: 38.625 ng
RT: 9.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:196 Resp: 20121

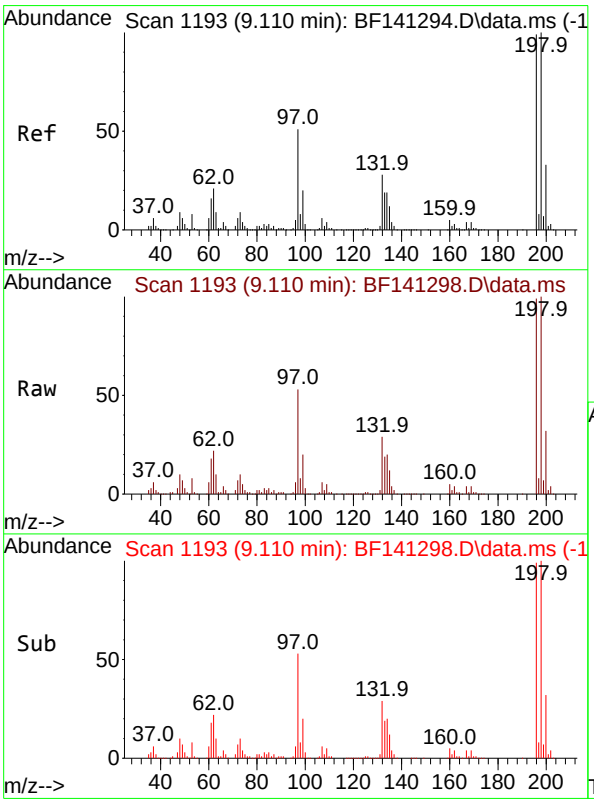
Ion	Ratio	Lower	Upper
196	100		
198	102.5	81.8	122.6
200	32.4	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

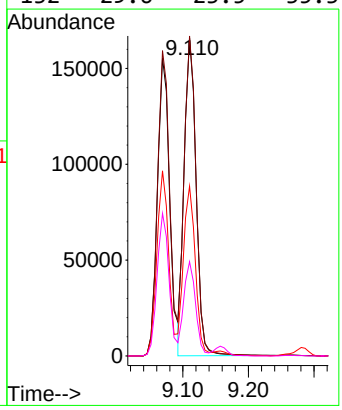
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

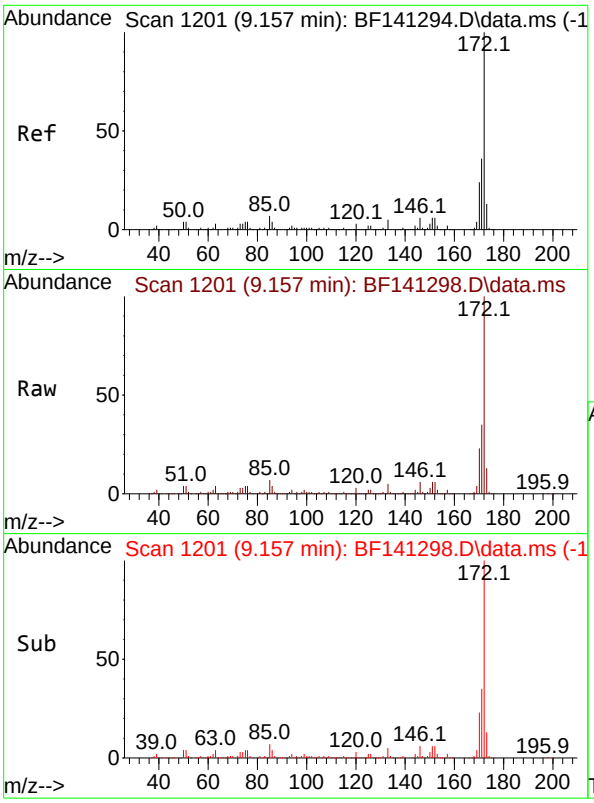


#44
2,4,5-Trichlorophenol
Concen: 36.969 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:196 Resp: 209611

Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.5	120.7
97	53.3	42.8	64.2
132	29.6	23.5	35.3

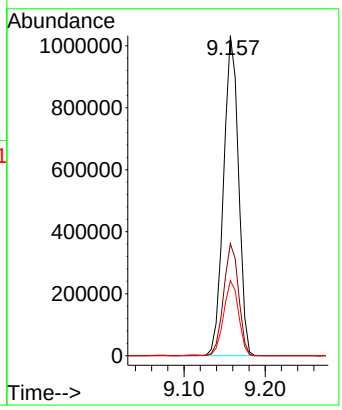




#45
2-Fluorobiphenyl
Concen: 72.938 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:172 Resp: 132572

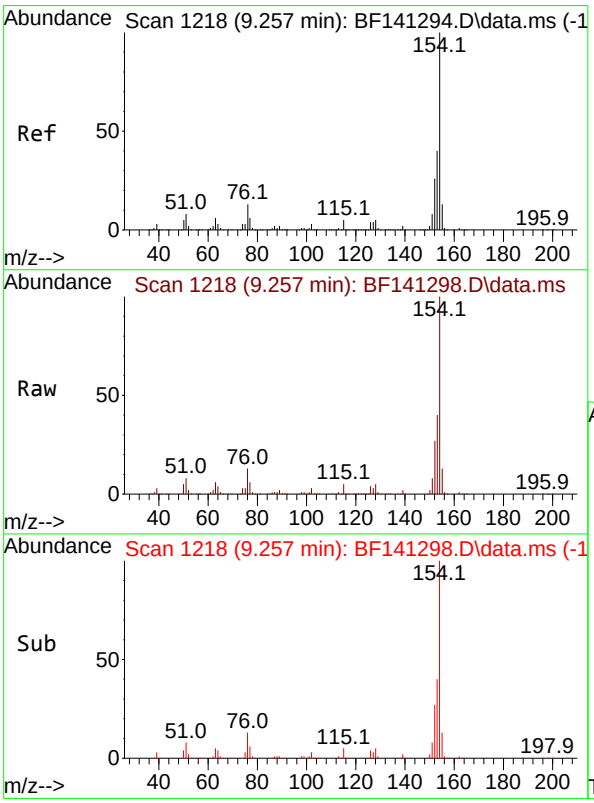
Ion	Ratio	Lower	Upper
172	100		
171	35.0	28.8	43.2
170	23.4	19.0	28.6



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

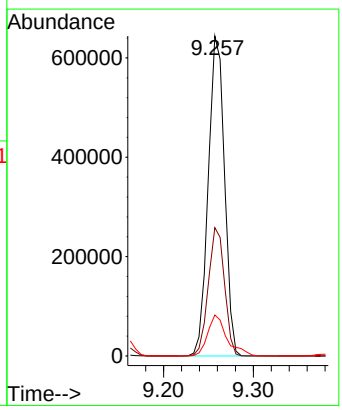
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

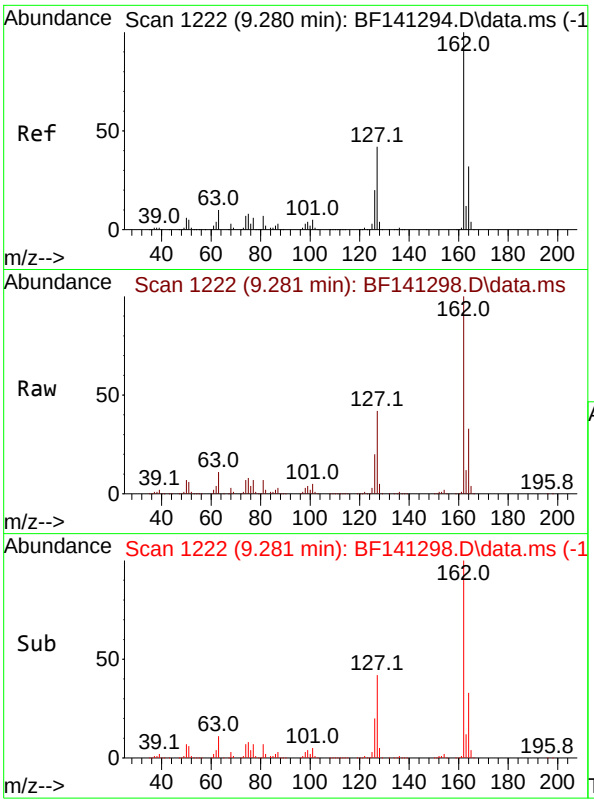


#46
1,1'-Biphenyl
Concen: 37.111 ng
RT: 9.257 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:154 Resp: 809694

Ion	Ratio	Lower	Upper
154	100		
153	40.1	20.0	60.0
76	12.8	0.0	32.8

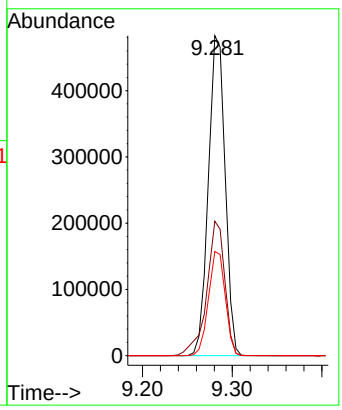




#47
2-Chloronaphthalene
Concen: 36.837 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:162 Resp: 62645

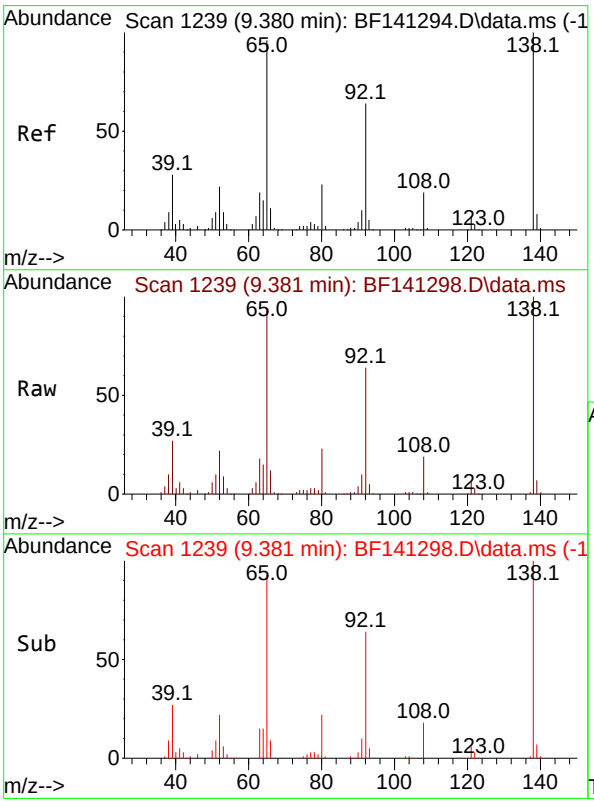
Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.7	50.5
164	32.5	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

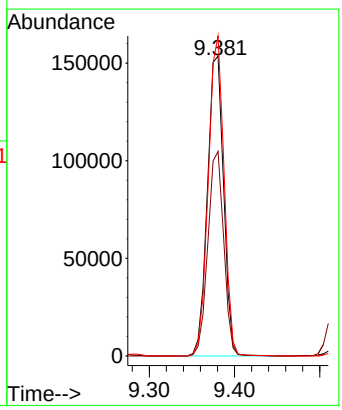
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

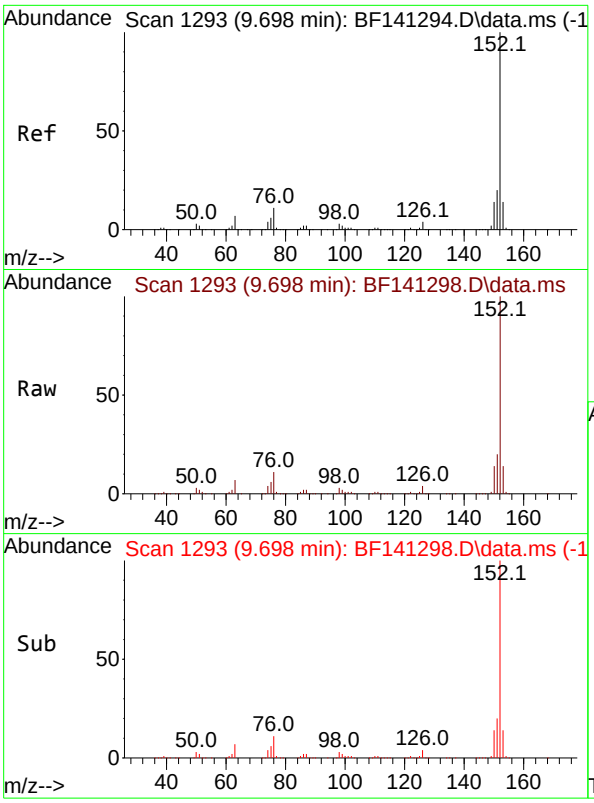


#48
2-Nitroaniline
Concen: 37.970 ng
RT: 9.381 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 65 Resp: 203104

Ion	Ratio	Lower	Upper
65	100		
92	68.1	53.3	79.9
138	106.7	83.6	125.4

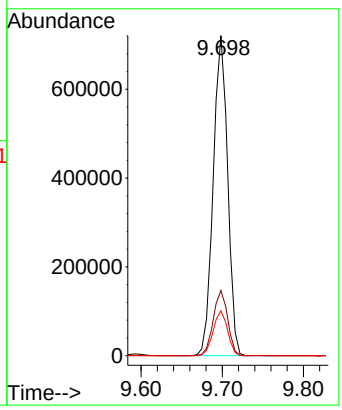




#49
Acenaphthylene
Concen: 37.416 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:152 Resp: 89070

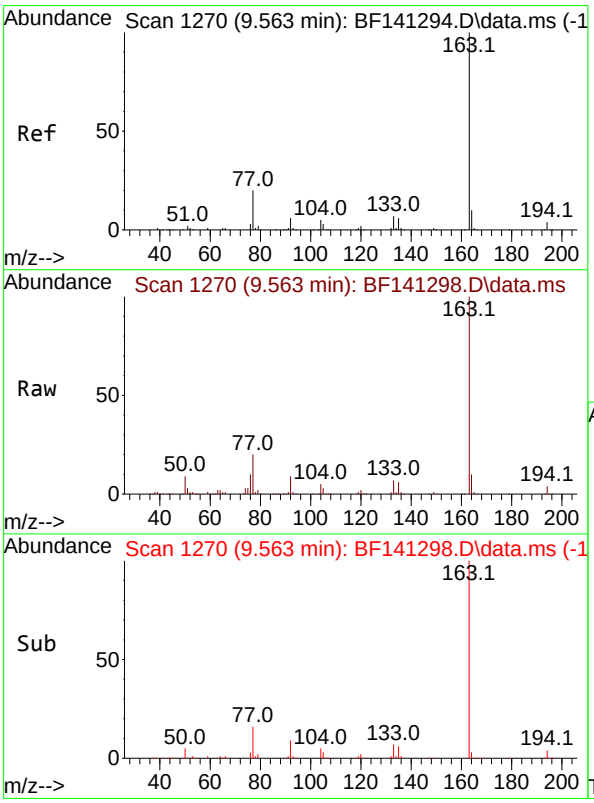
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	14.0	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

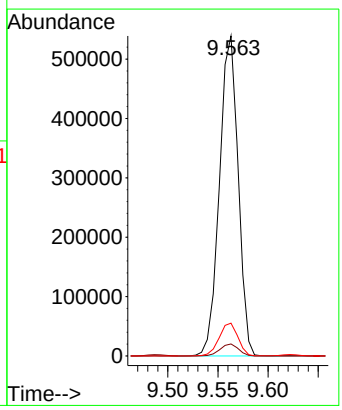
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

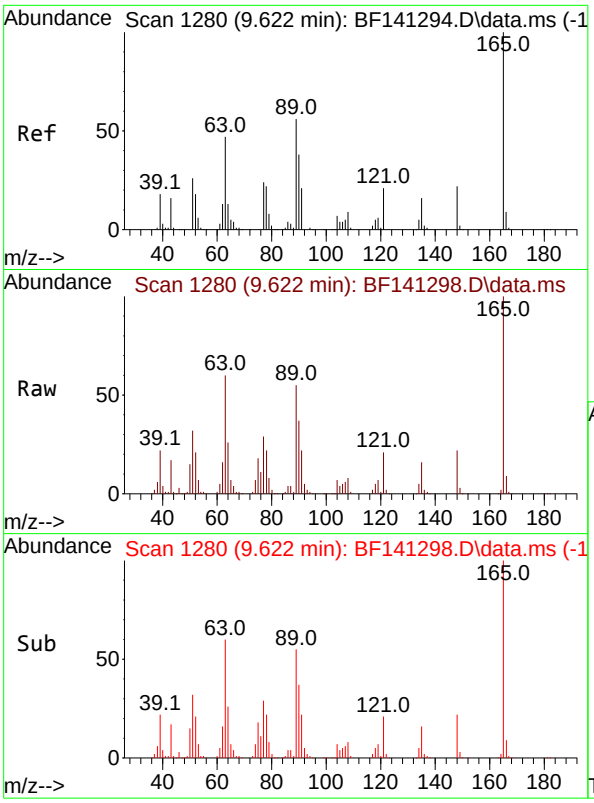


#50
Dimethylphthalate
Concen: 36.904 ng
RT: 9.563 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:163 Resp: 697300

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.0	12.0

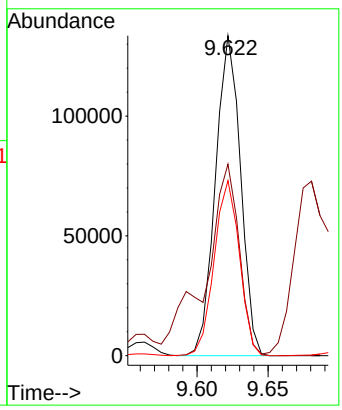




#51
2,6-Dinitrotoluene
Concen: 37.459 ng
RT: 9.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:165 Resp: 16434

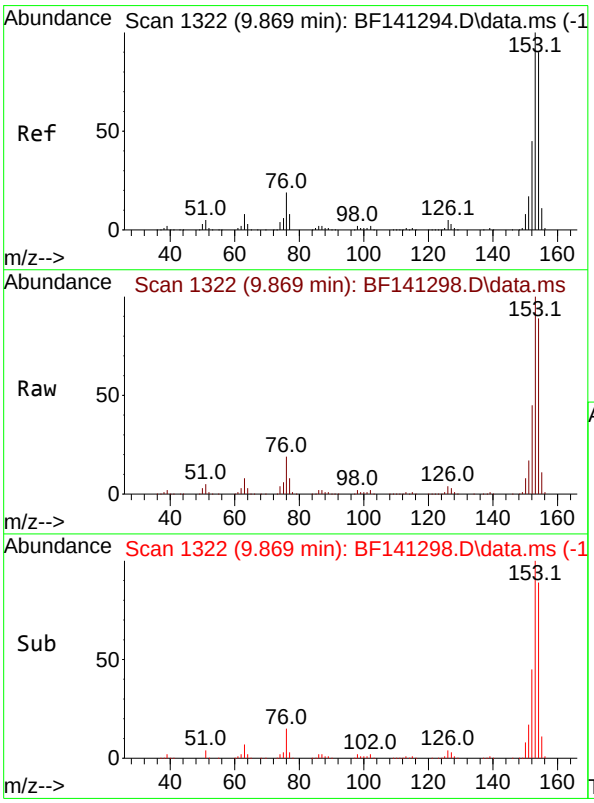
Ion	Ratio	Lower	Upper
165	100		
63	59.9	48.1	72.1
89	54.7	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

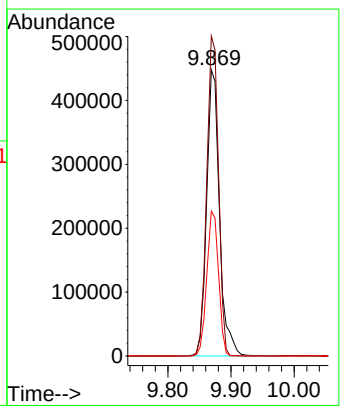
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

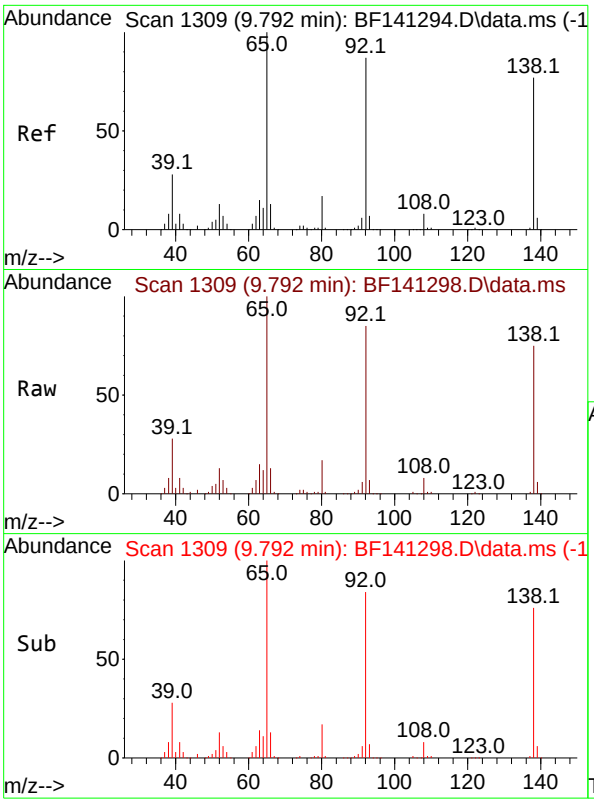


#52
Acenaphthene
Concen: 37.206 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:154 Resp: 632756

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.0	133.4
152	50.6	40.2	60.4





#53
3-Nitroaniline
Concen: 38.150 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

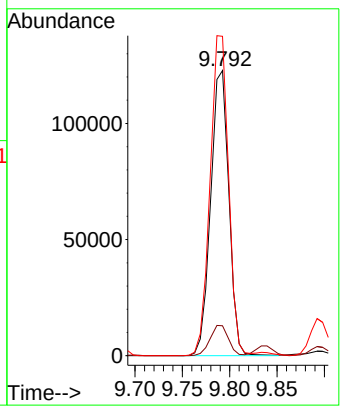
Tgt Ion:138 Resp: 16404

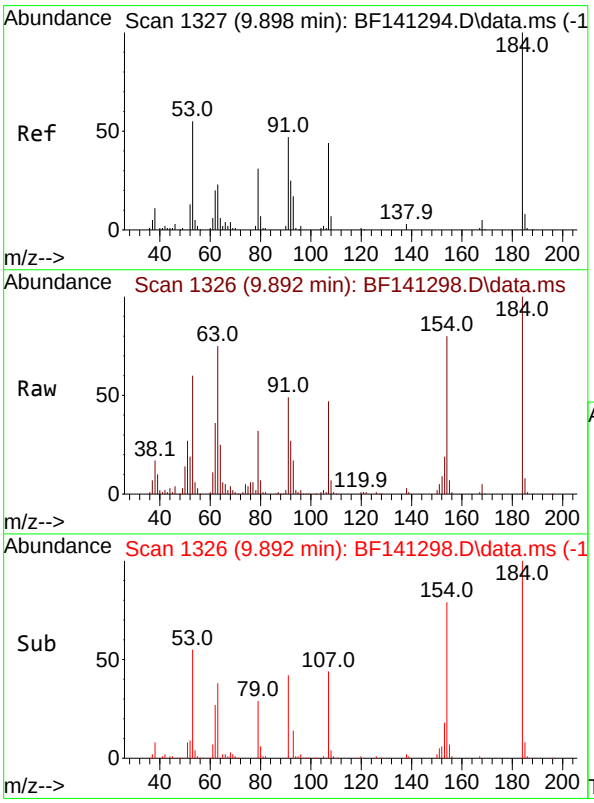
Ion	Ratio	Lower	Upper
138	100		
108	10.5	8.6	12.8
92	112.1	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

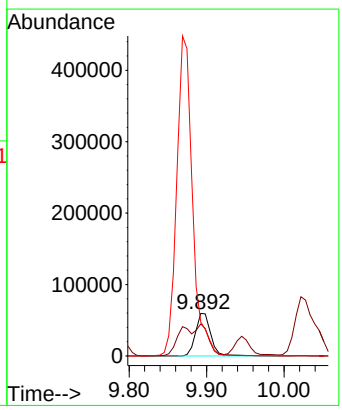


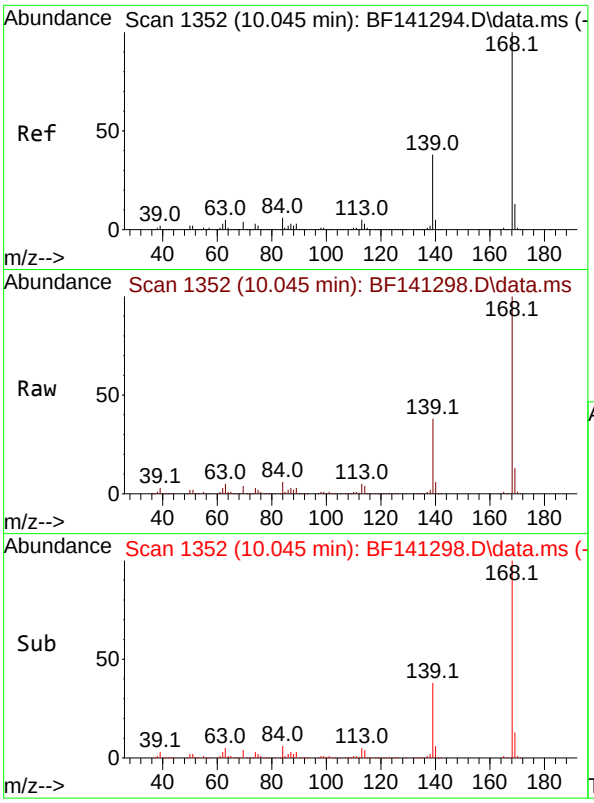


#54
2,4-Dinitrophenol
Concen: 39.734 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:184 Resp: 81034

Ion	Ratio	Lower	Upper
184	100		
63	75.3	54.1	81.1
154	79.6	50.7	76.1#

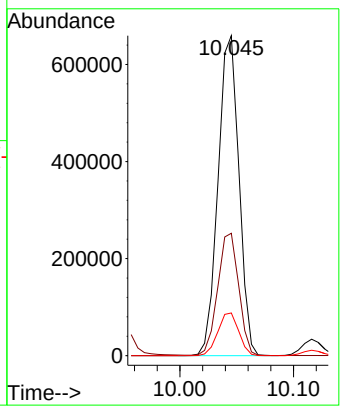




#55
Dibenzofuran
Concen: 37.012 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:168 Resp: 84255

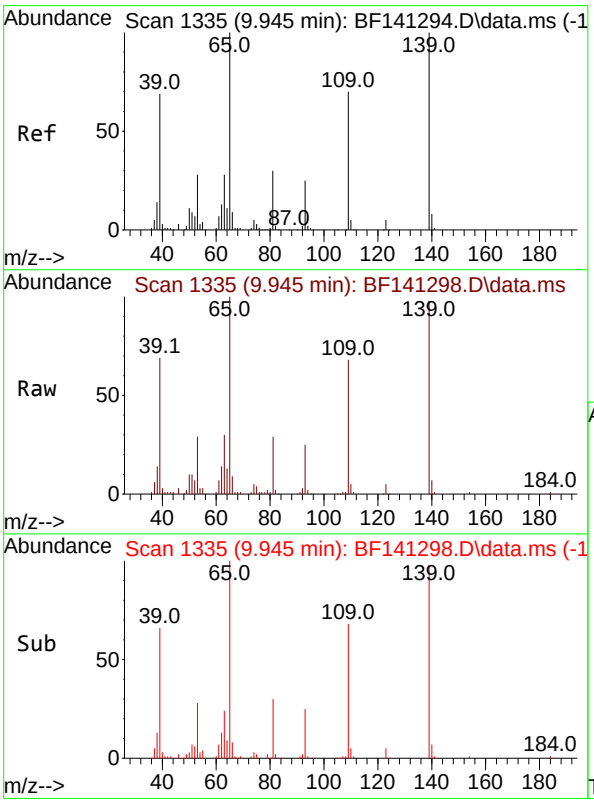
Ion	Ratio	Lower	Upper
168	100		
139	38.2	30.6	46.0
169	13.4	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

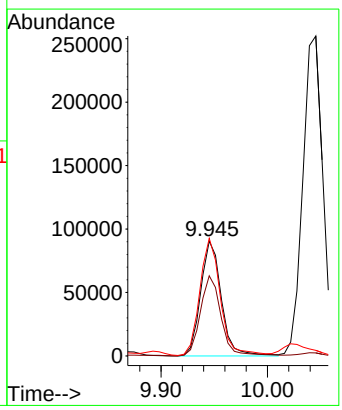
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

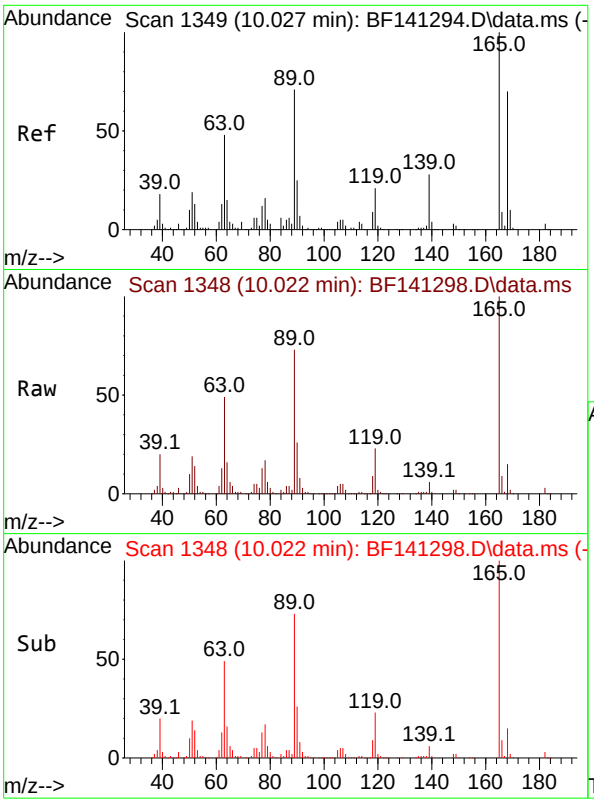


#56
4-Nitrophenol
Concen: 39.089 ng
RT: 9.945 min Scan# 1335
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:139 Resp: 122925

Ion	Ratio	Lower	Upper
139	100		
109	69.7	50.2	90.2
65	102.4	80.6	120.6

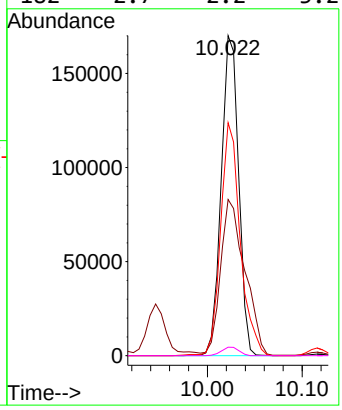




#57
2,4-Dinitrotoluene
Concen: 38.327 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:165 Resp: 21770

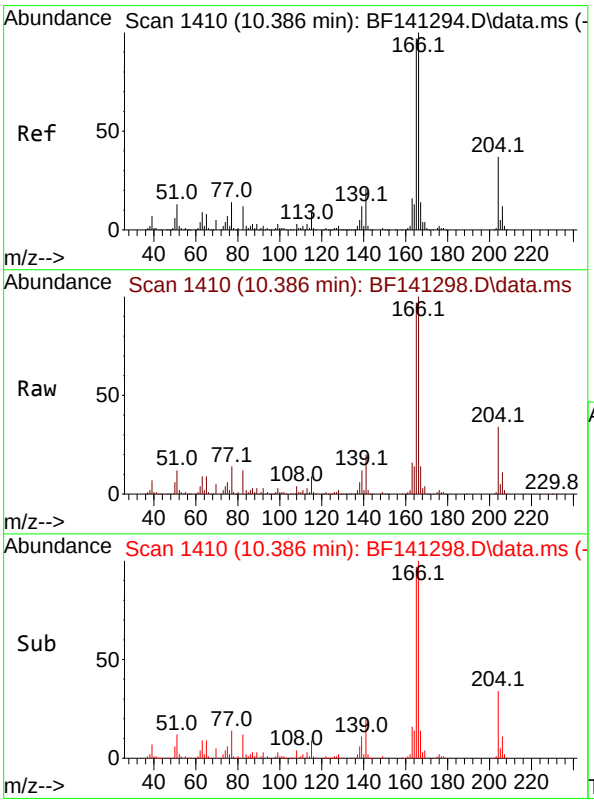
Ion	Ratio	Lower	Upper
165	100		
63	48.8	39.2	58.8
89	72.8	56.9	85.3
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

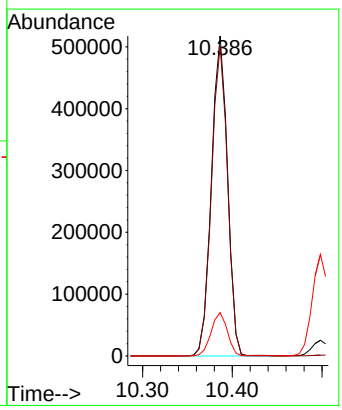
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

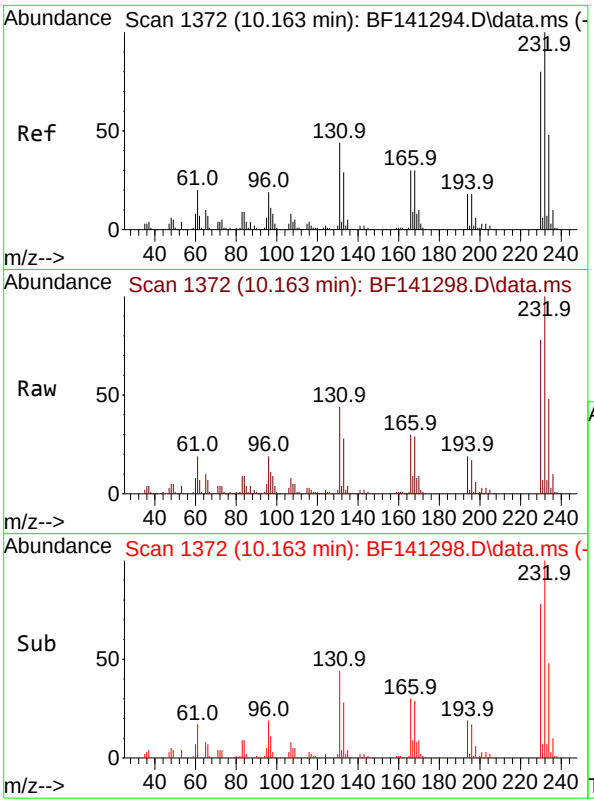


#58
Fluorene
Concen: 36.451 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:166 Resp: 643639

Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.5	116.3
167	13.6	10.9	16.3

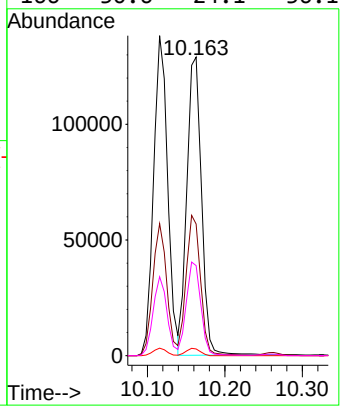




#59
2,3,4,6-Tetrachlorophenol
Concen: 37.902 ng
RT: 10.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:232 Resp: 16906

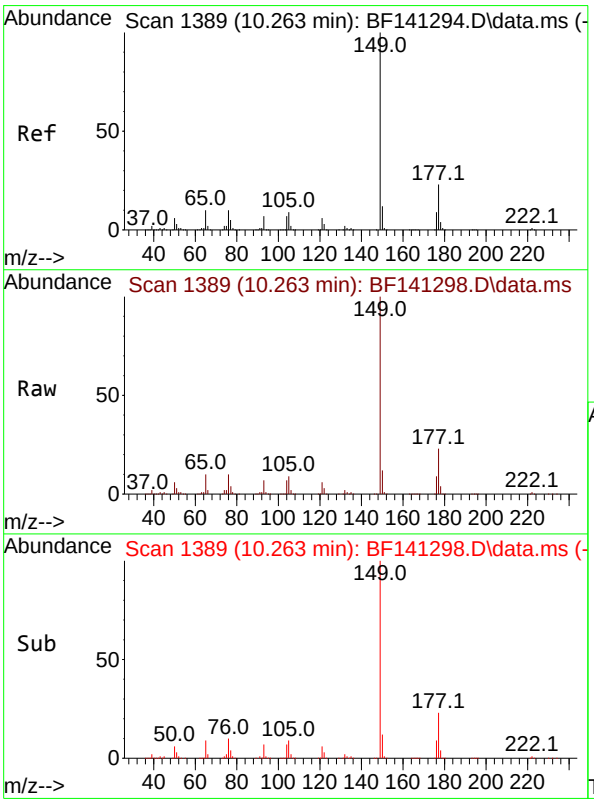
Ion	Ratio	Lower	Upper
232	100		
131	46.5	36.4	54.6
130	2.4	1.9	2.9
166	30.6	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

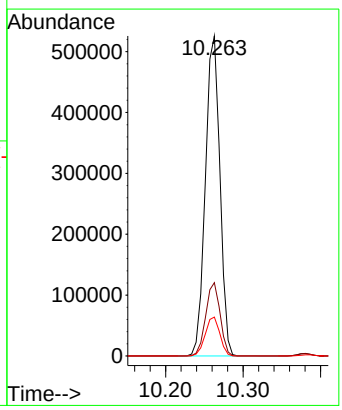
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

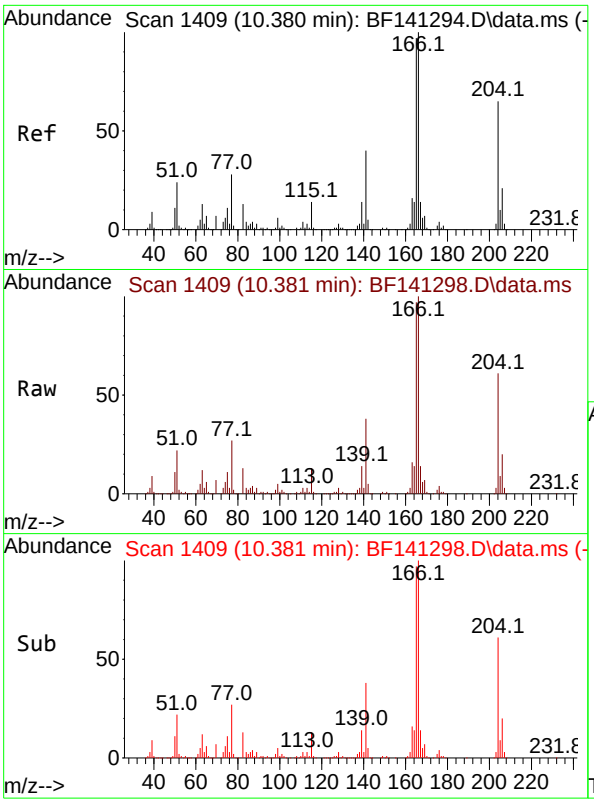


#60
Diethylphthalate
Concen: 37.316 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:149 Resp: 683674

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.5	27.7
150	12.1	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 36.180 ng
RT: 10.381 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

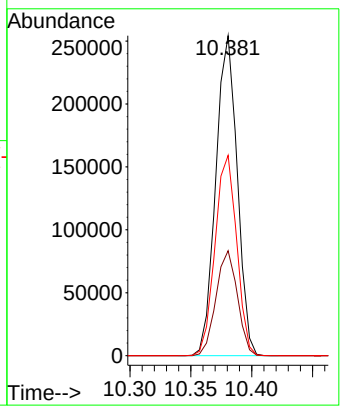
Tgt Ion:204 Resp: 31206

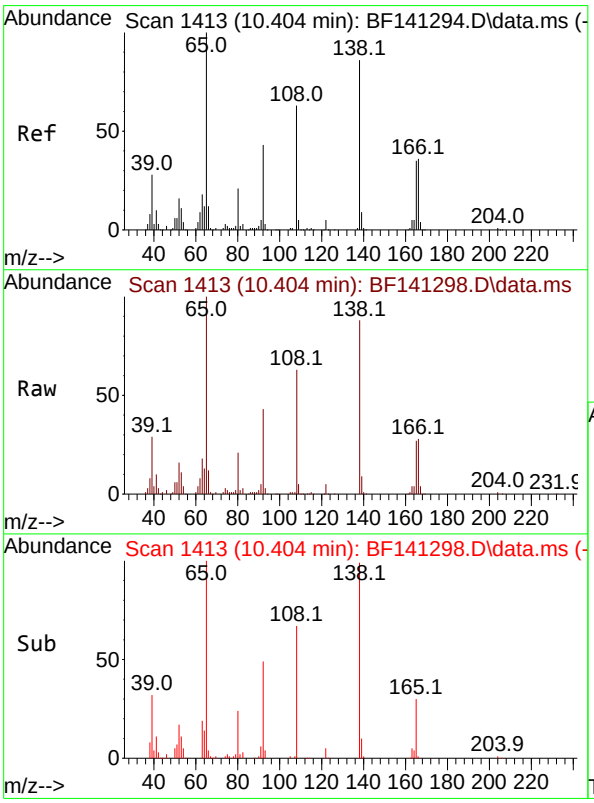
Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	62.6	49.5	74.3

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

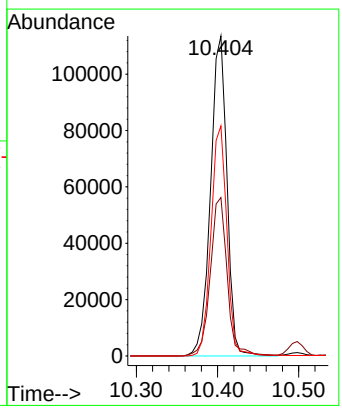


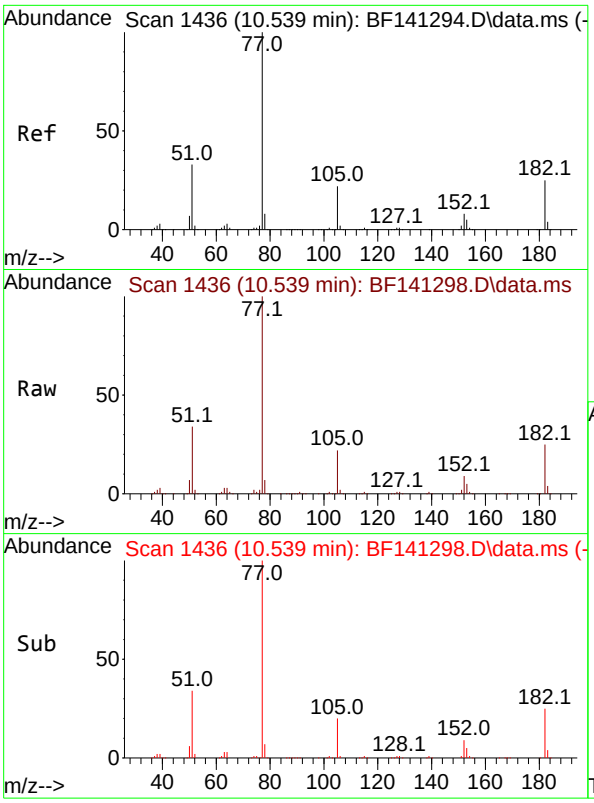


#62
4-Nitroaniline
Concen: 37.665 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:138 Resp: 159227

Ion	Ratio	Lower	Upper
138	100		
92	49.5	30.1	70.1
108	71.9	53.1	93.1





#63
Azobenzene
Concen: 37.020 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

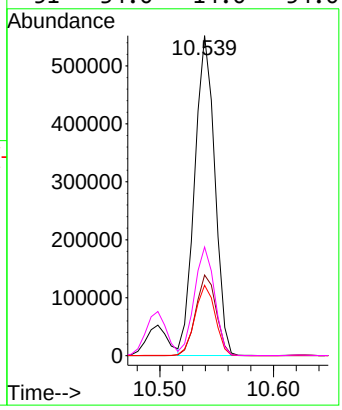
Instrument :
BNA_F
ClientSampleId :
ICVBF012925

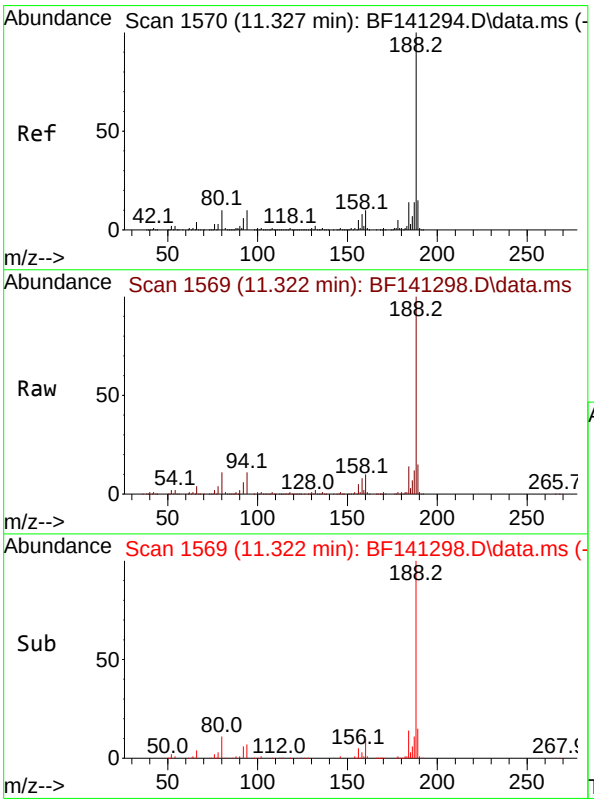
Tgt Ion: 77 Resp: 67890

Ion	Ratio	Lower	Upper
77	100		
182	25.2	5.1	45.1
105	22.0	1.8	41.8
51	34.0	14.0	54.0

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

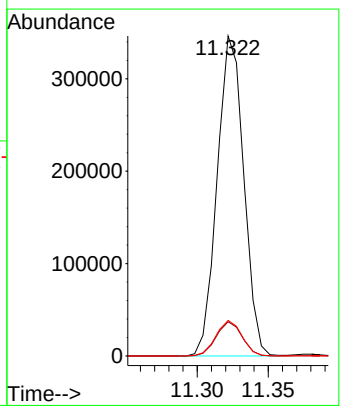


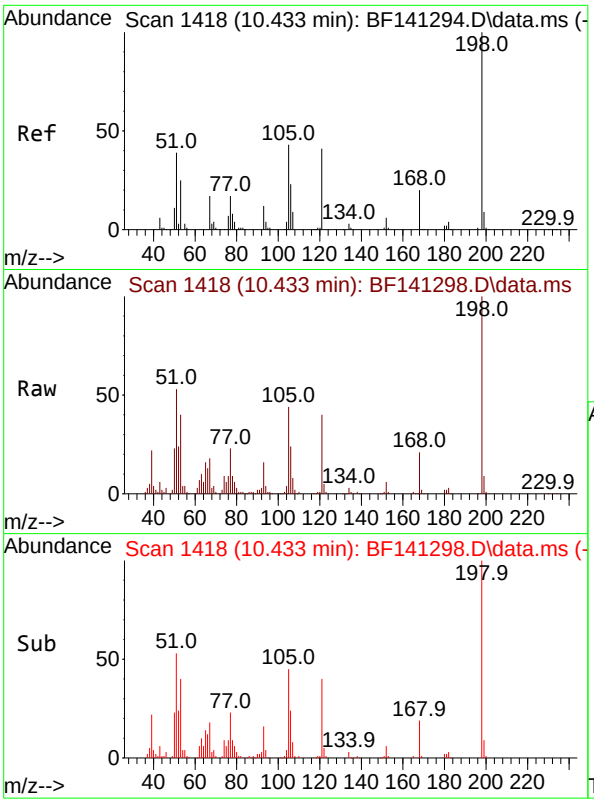


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:188 Resp: 450291

Ion	Ratio	Lower	Upper
188	100		
94	10.7	7.8	11.6
80	11.1	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 41.913 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

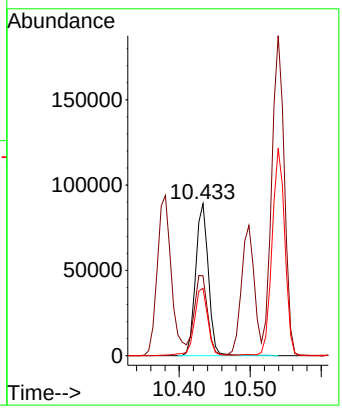
Tgt Ion:198 Resp: 11163

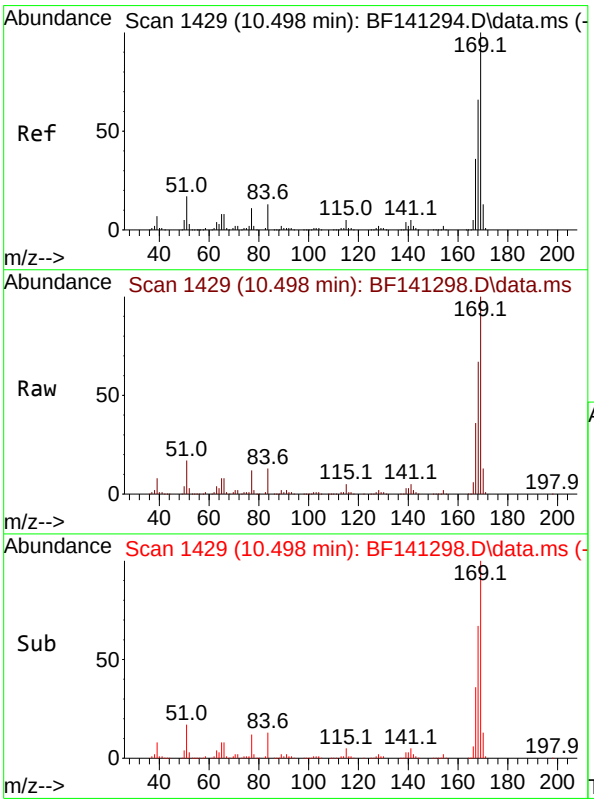
Ion	Ratio	Lower	Upper
198	100		
51	52.5	33.4	73.4
105	44.4	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

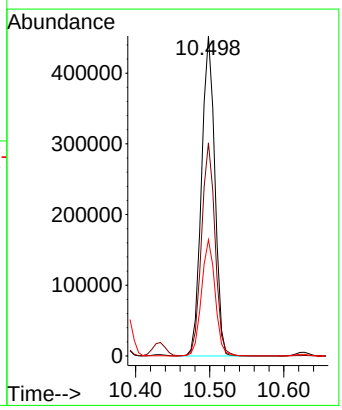


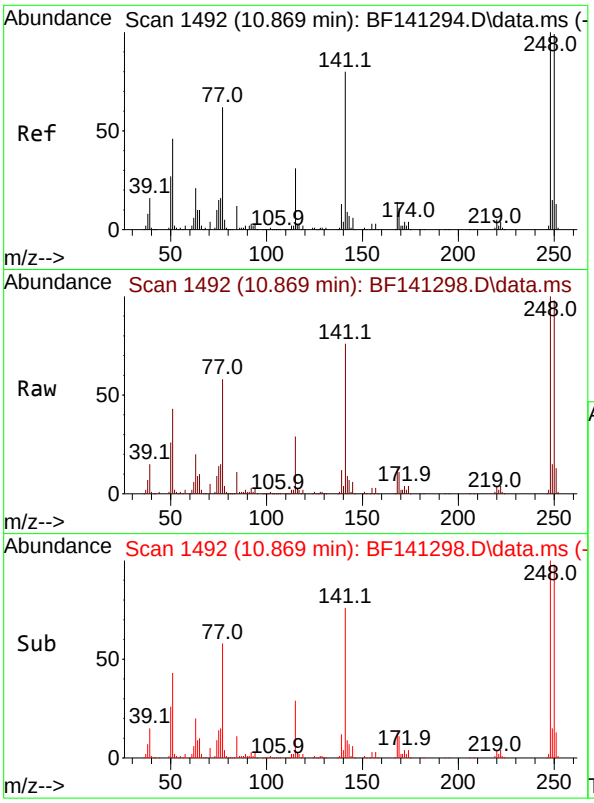


#66
n-Nitrosodiphenylamine
Concen: 38.757 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:169 Resp: 564452

Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.0	79.4
167	36.3	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 39.477 ng
RT: 10.869 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

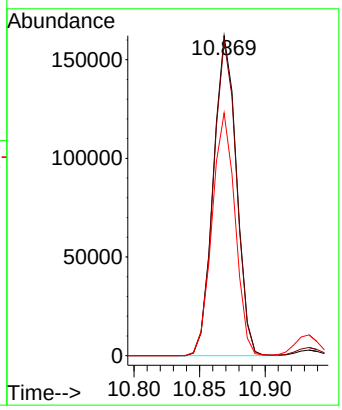
Instrument :
BNA_F
ClientSampleId :
ICVBF012925

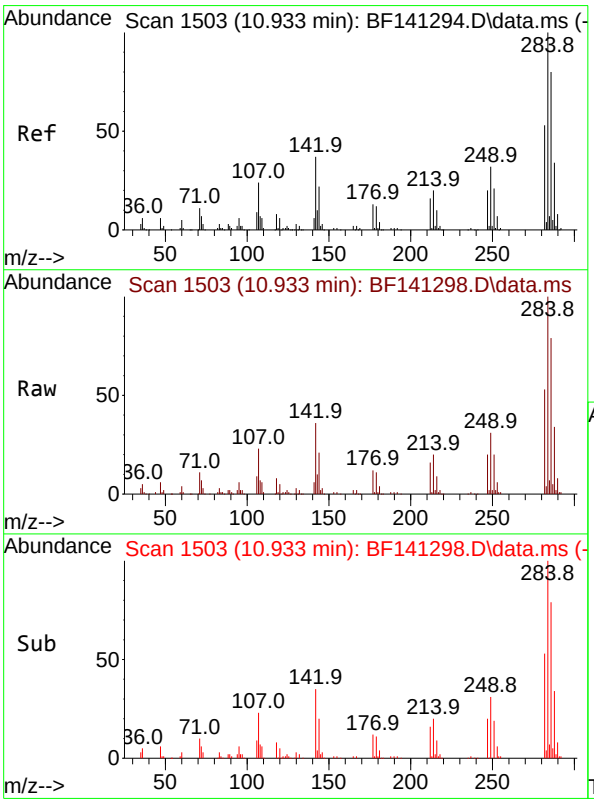
Tgt Ion:248 Resp: 199009

Ion	Ratio	Lower	Upper
248	100		
250	98.4	79.0	118.4
141	75.9	63.7	95.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

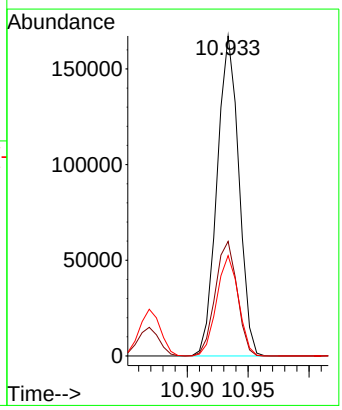


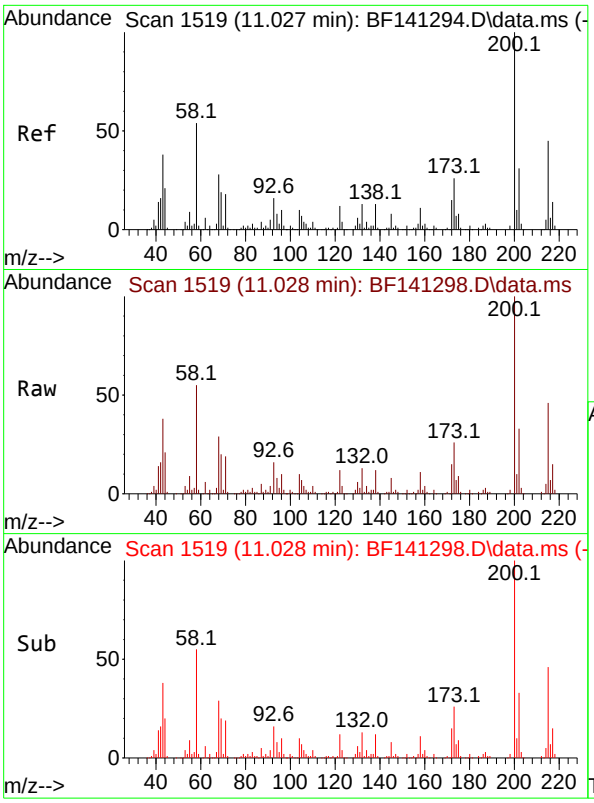


#68
Hexachlorobenzene
Concen: 38.929 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:284 Resp: 208171

Ion	Ratio	Lower	Upper
284	100		
142	35.8	29.5	44.3
249	31.3	25.4	38.2

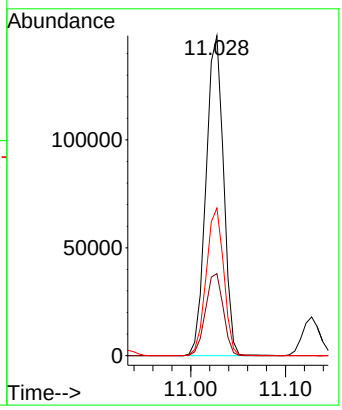




#69
Atrazine
Concen: 39.215 ng
RT: 11.028 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:200 Resp: 19095

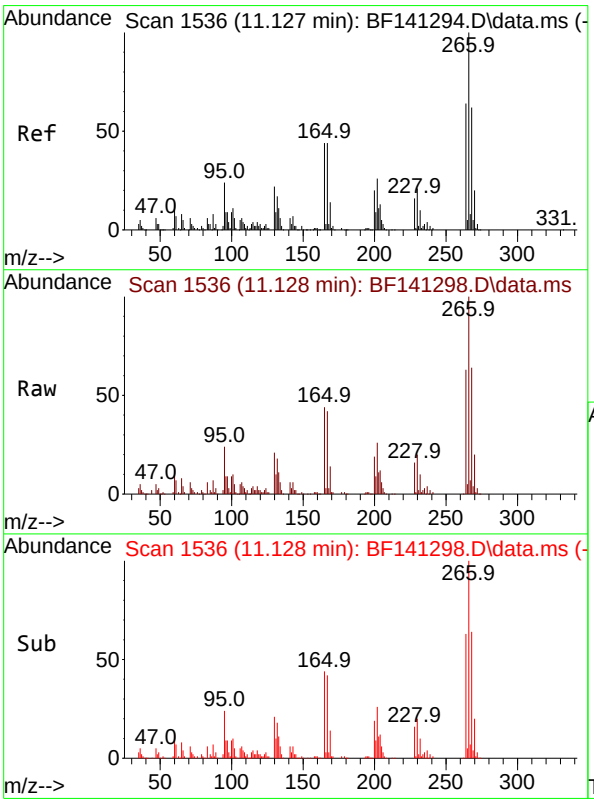
Ion	Ratio	Lower	Upper
200	100		
173	25.7	5.9	45.9
215	46.1	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

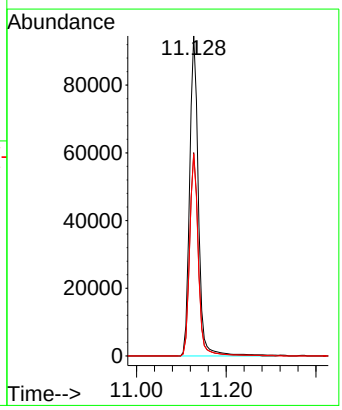
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

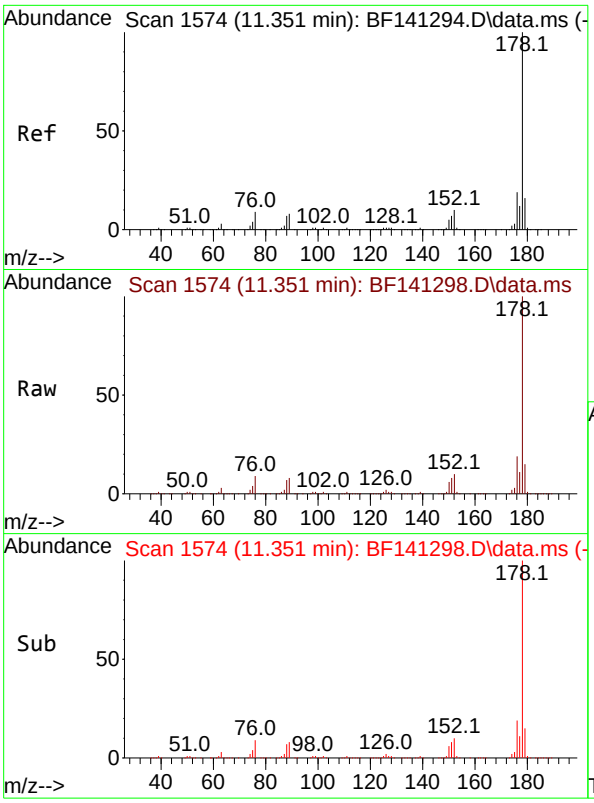


#70
Pentachlorophenol
Concen: 40.973 ng
RT: 11.128 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:266 Resp: 128300

Ion	Ratio	Lower	Upper
266	100		
268	63.6	49.9	74.9
264	63.0	51.0	76.4

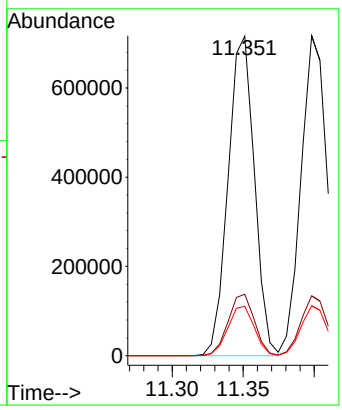




#71
Phenanthrene
Concen: 38.117 ng
RT: 11.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:178 Resp: 92262

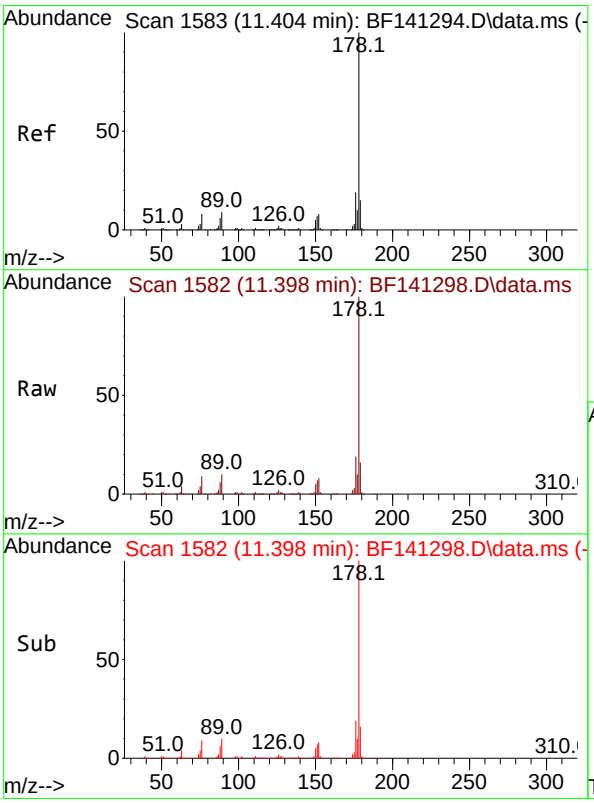
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.5	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

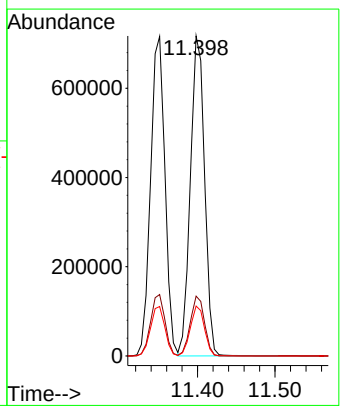
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

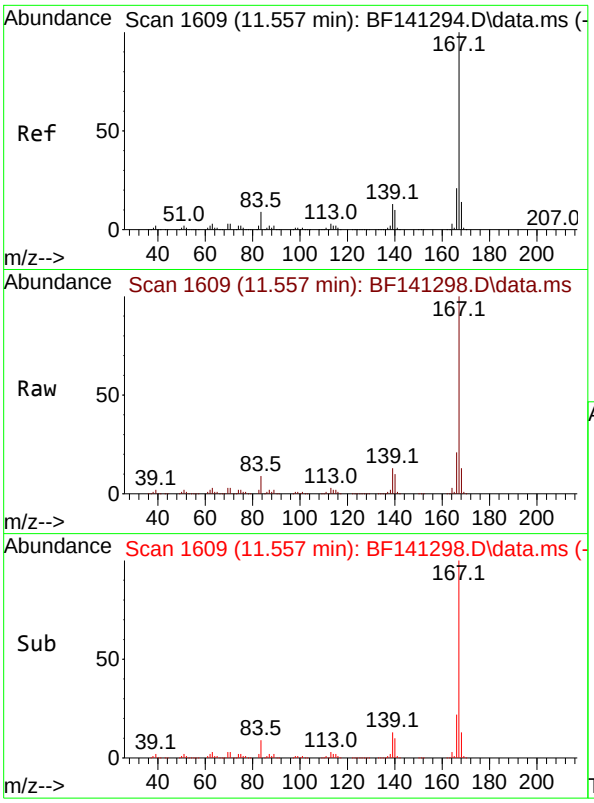


#72
Anthracene
Concen: 38.484 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:178 Resp: 912703

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.6
179	15.6	12.3	18.5

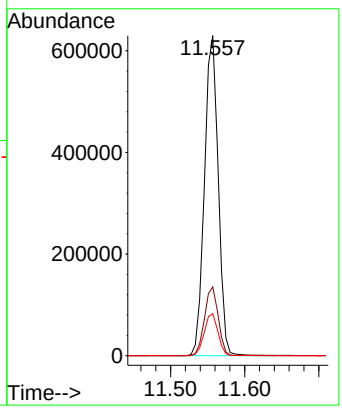




#73
Carbazole
Concen: 38.661 ng
RT: 11.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:167 Resp: 81303

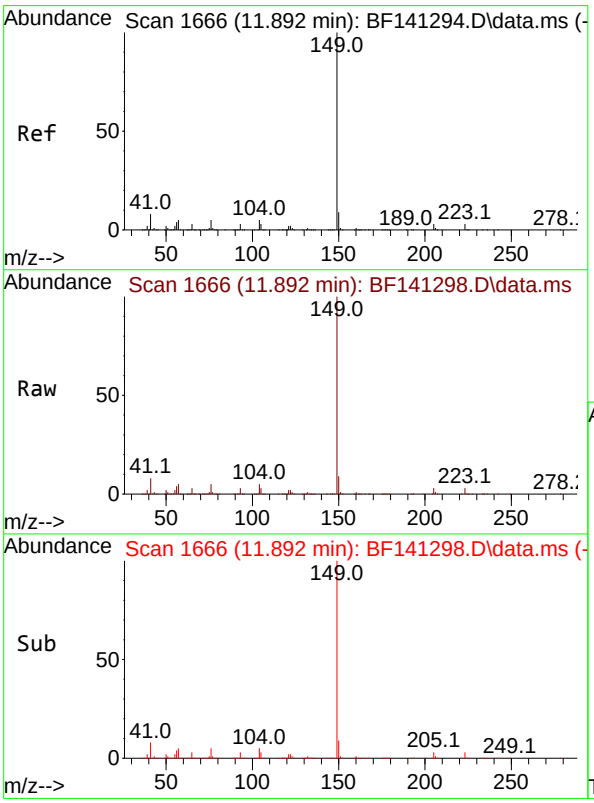
Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.0	25.6
139	13.1	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

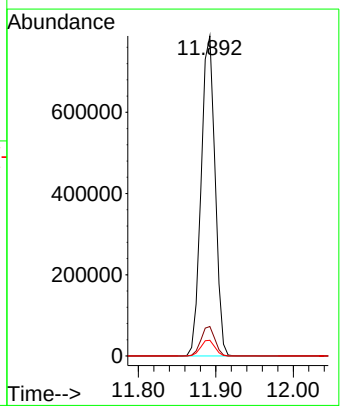
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

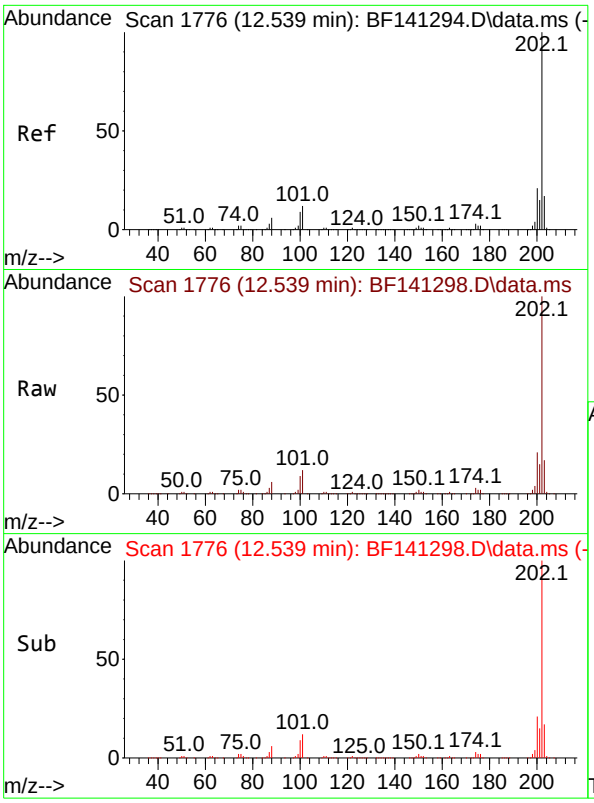


#74
Di-n-butylphthalate
Concen: 38.639 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:149 Resp: 984759

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.9	3.9	5.9





#75
Fluoranthene
Concen: 37.768 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

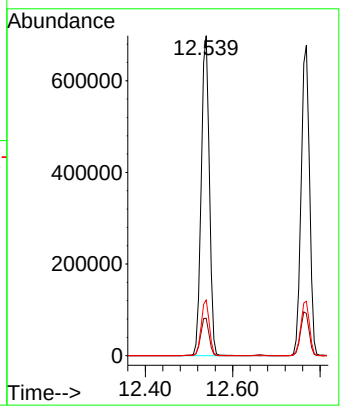
Tgt Ion:202 Resp: 90263

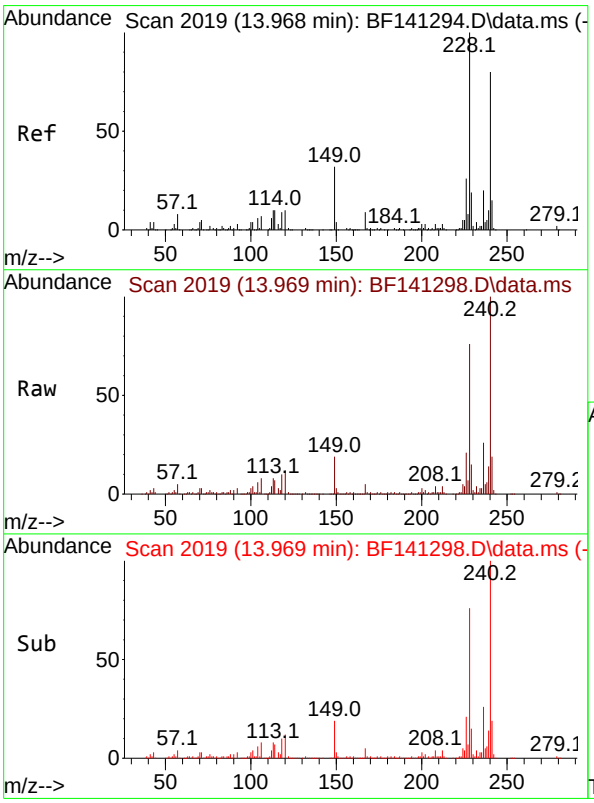
Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.7
203	17.4	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

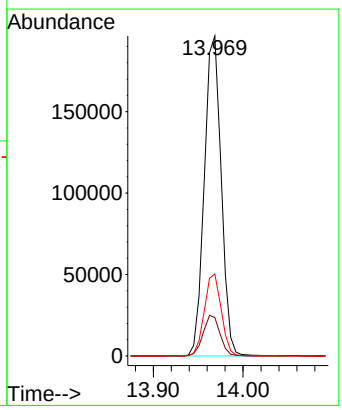


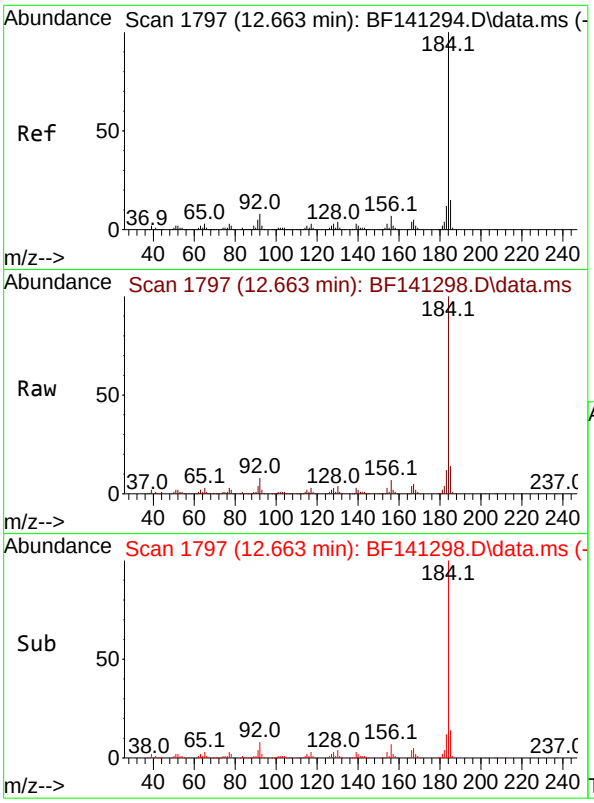


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:240 Resp: 257177

Ion	Ratio	Lower	Upper
240	100		
120	12.0	10.0	15.0
236	25.6	19.7	29.5

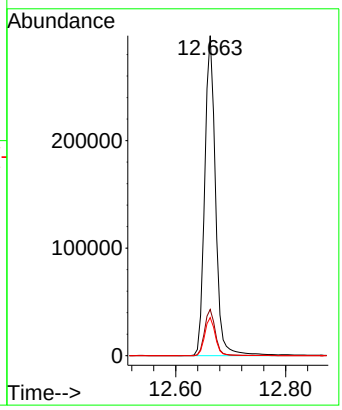




#77
Benzidine
Concen: 49.142 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:184 Resp: 40516

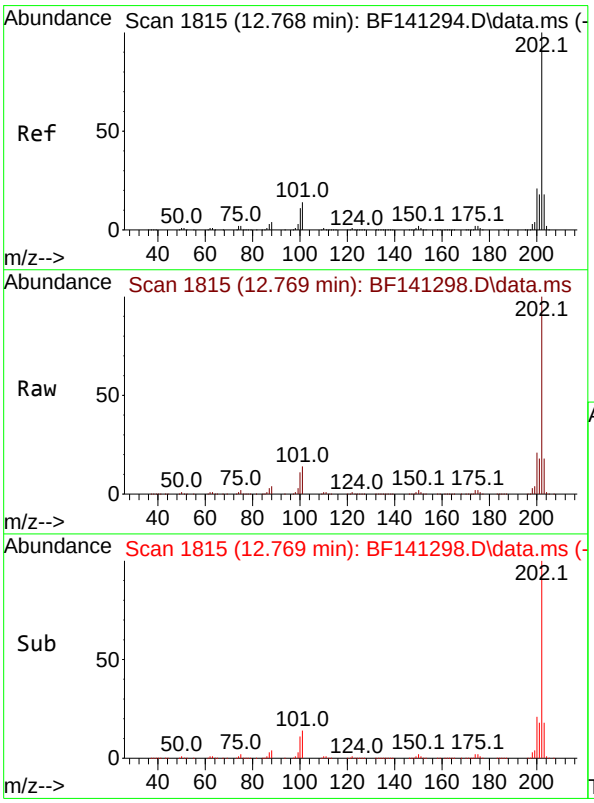
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.9	17.9
183	11.9	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

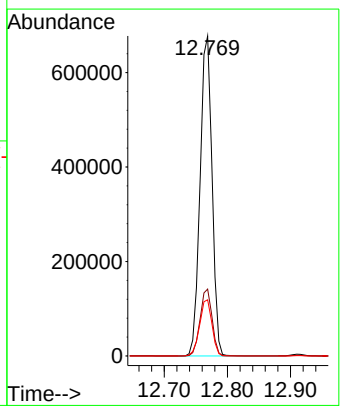
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

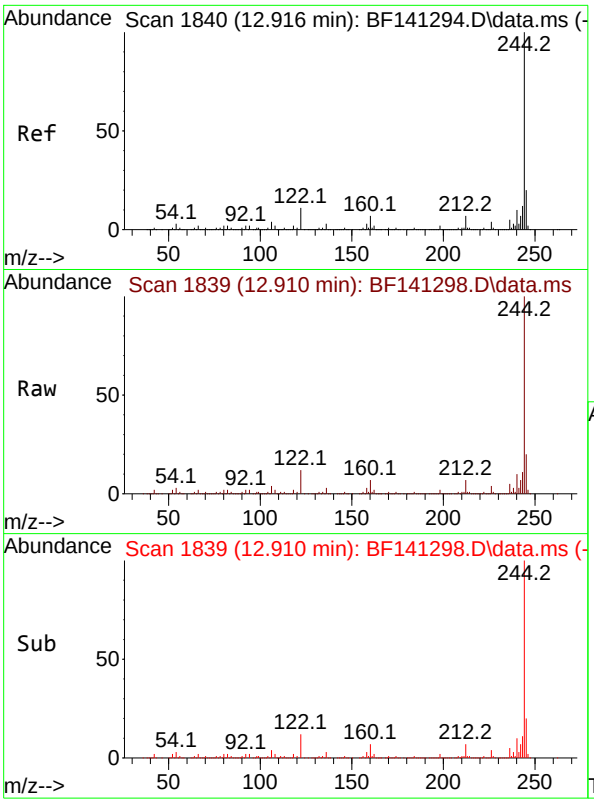


#78
Pyrene
Concen: 36.225 ng
RT: 12.769 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:202 Resp: 894269

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.5	14.3	21.5

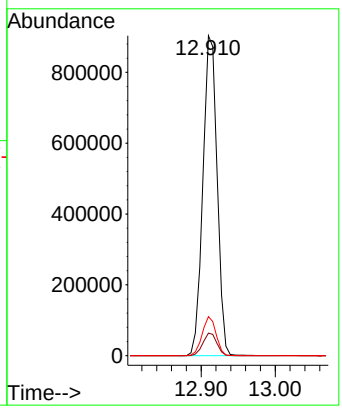




#79
Terphenyl-d14
Concen: 72.460 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:244 Resp: 120835

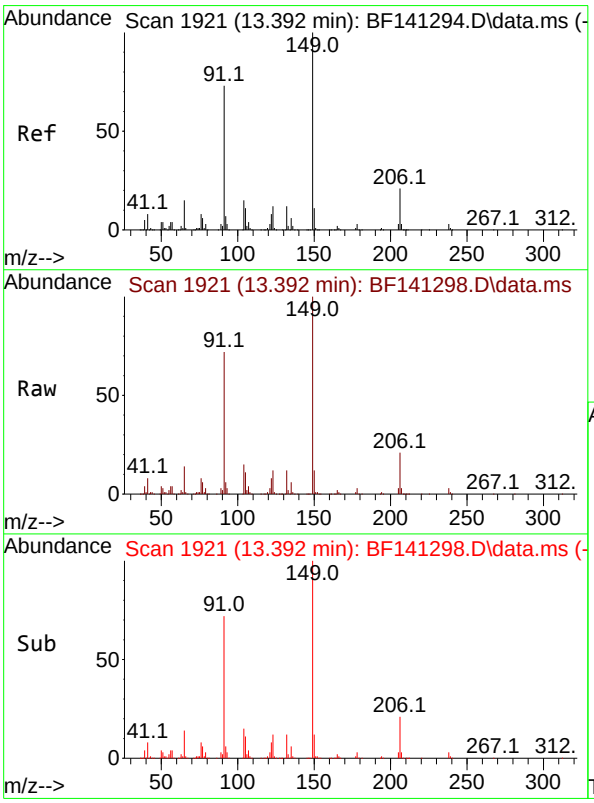
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	12.2	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

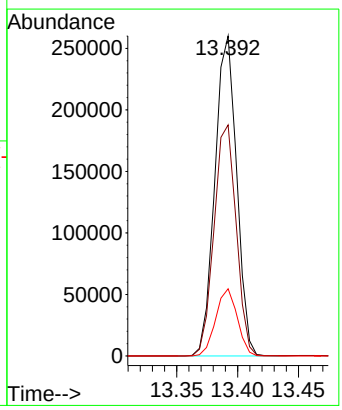
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

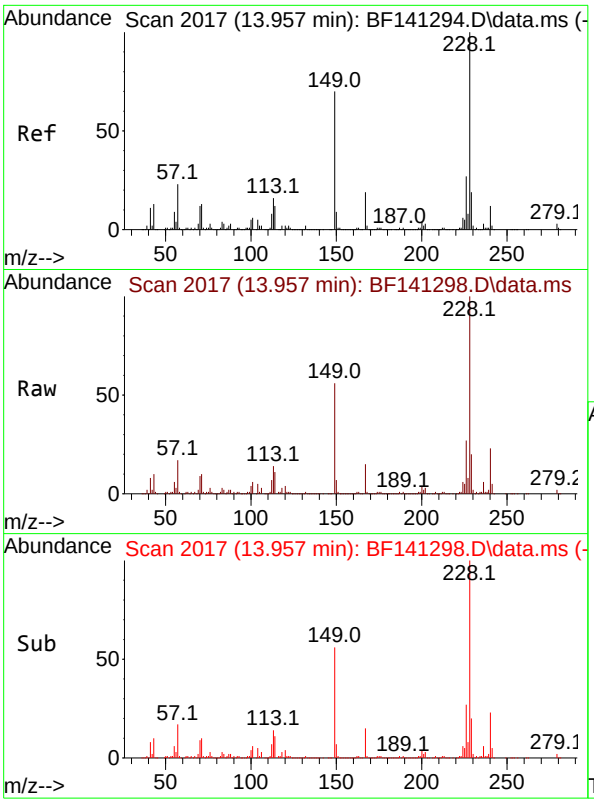


#80
Butylbenzylphthalate
Concen: 37.660 ng
RT: 13.392 min Scan# 1921
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:149 Resp: 324793

Ion	Ratio	Lower	Upper
149	100		
91	72.2	58.6	87.8
206	21.0	16.7	25.1

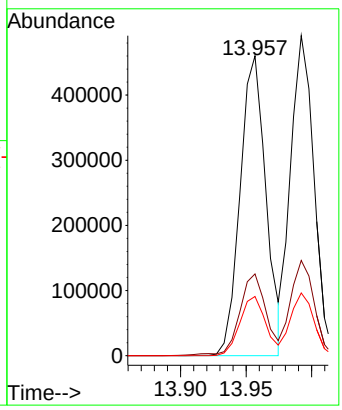




#81
Benzo(a)anthracene
Concen: 35.587 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:228 Resp: 63155

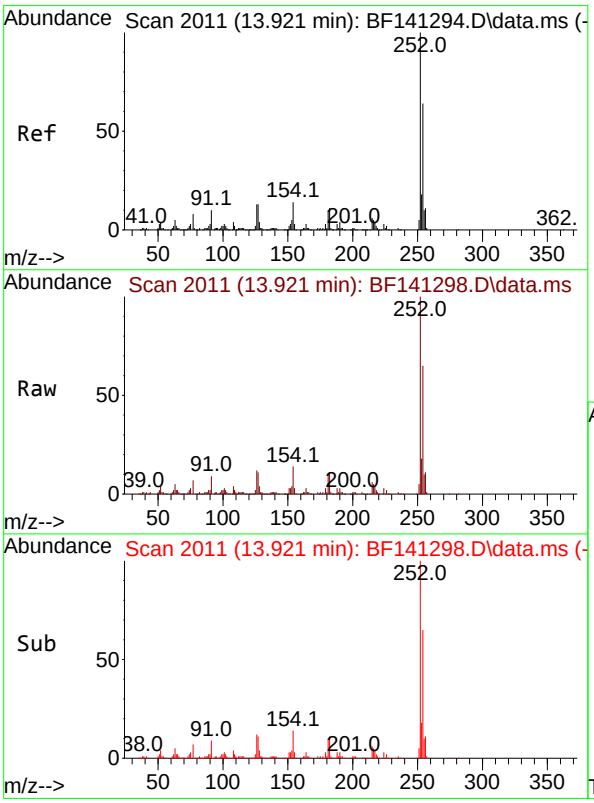
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.4	32.2
229	19.7	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

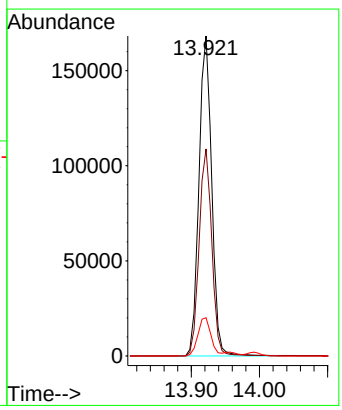
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

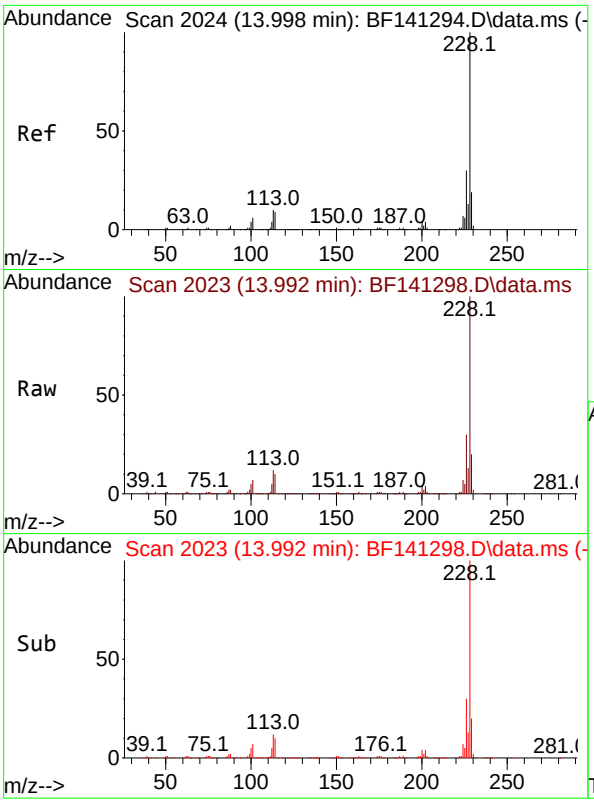


#82
3,3'-Dichlorobenzidine
Concen: 38.774 ng
RT: 13.921 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:252 Resp: 218850

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.3	76.9
126	12.0	10.0	15.0

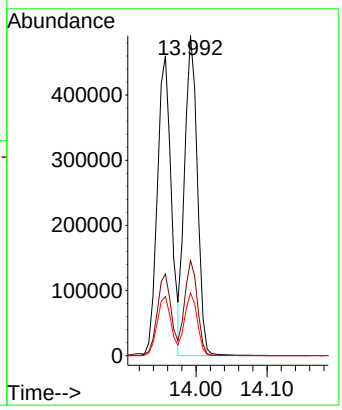




#83
Chrysene
Concen: 37.508 ng
RT: 13.992 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:228 Resp: 61003

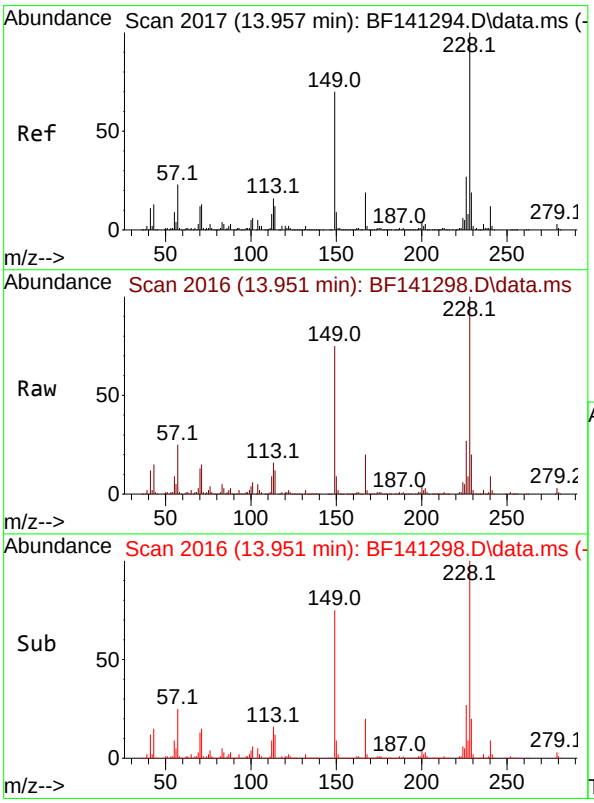
Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.1	36.1
229	19.6	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

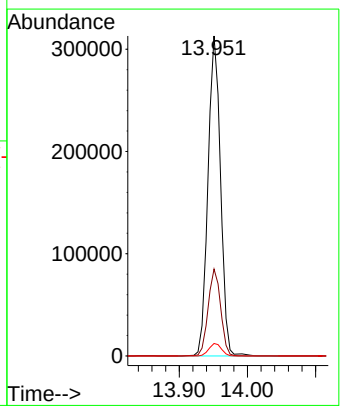
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

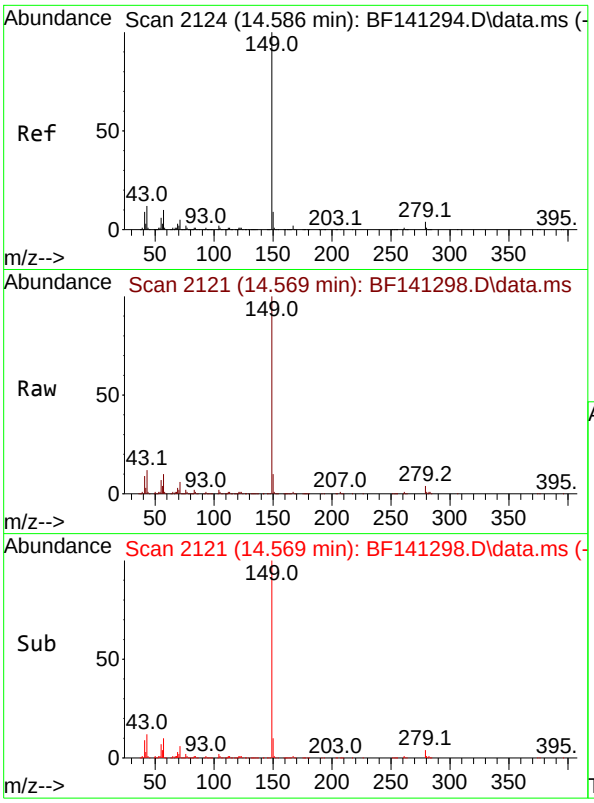


#84
Bis(2-ethylhexyl)phthalate
Concen: 36.620 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:149 Resp: 400642

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.8	32.8
279	3.9	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 37.807 ng
RT: 14.569 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

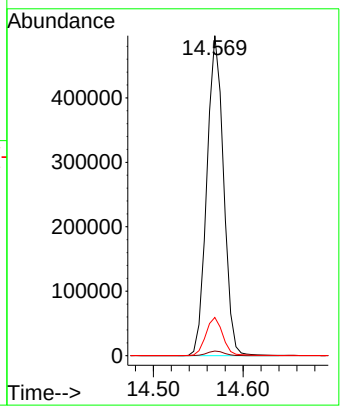
Tgt Ion:149 Resp: 64243

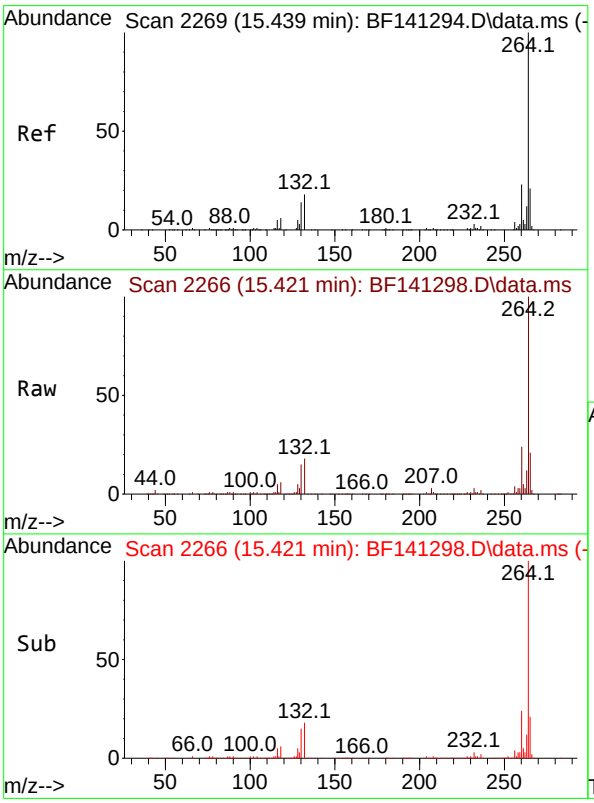
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	12.1	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

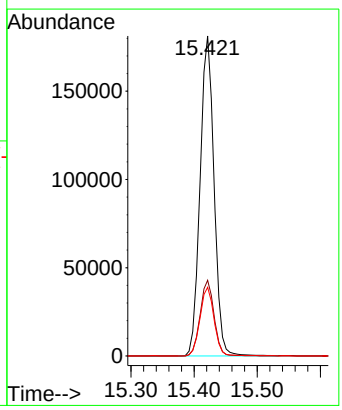


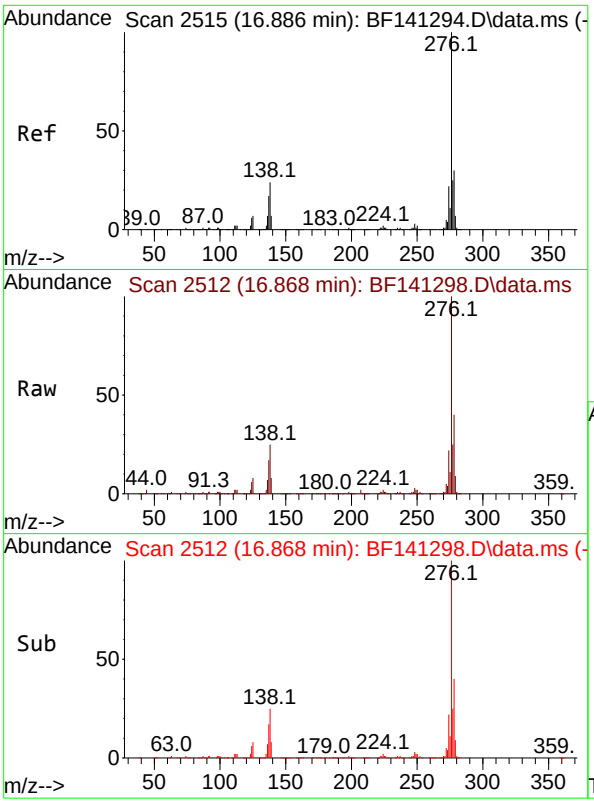


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:264 Resp: 279455

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	27.8
265	21.5	16.7	25.1

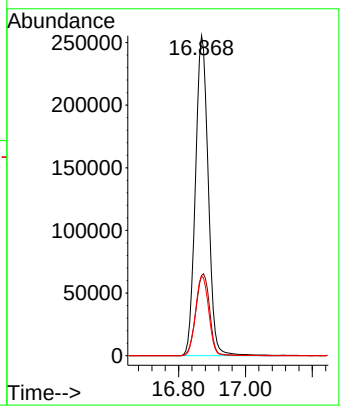




#87
Indeno(1,2,3-cd)pyrene
Concen: 37.626 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:276 Resp: 67865

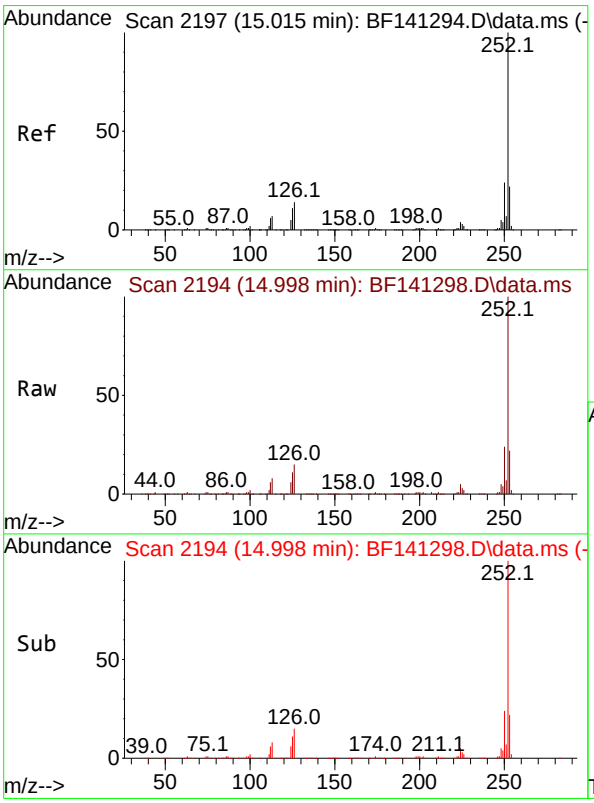
Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.7	32.5
277	25.7	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

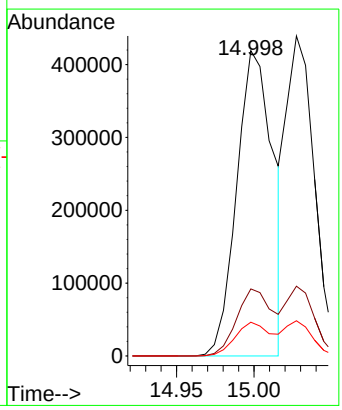
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

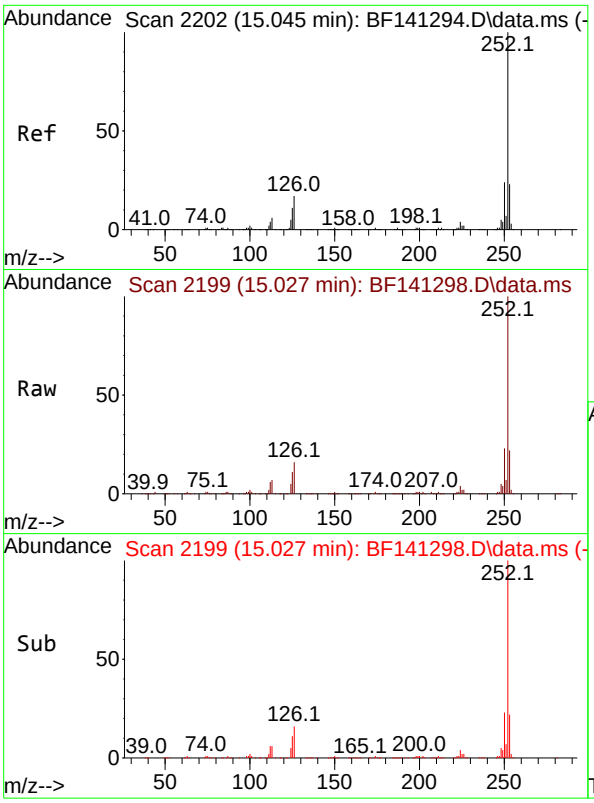


#88
Benzo(b)fluoranthene
Concen: 38.861 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.024 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:252 Resp: 683111

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	11.0	8.6	12.8

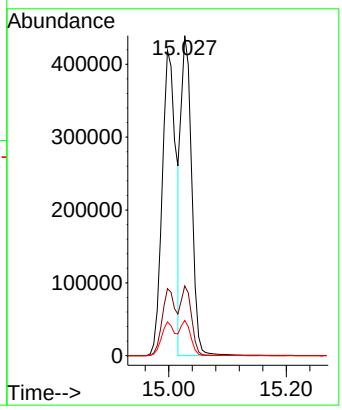




#89
Benzo(k)fluoranthene
Concen: 35.766 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:252 Resp: 55696

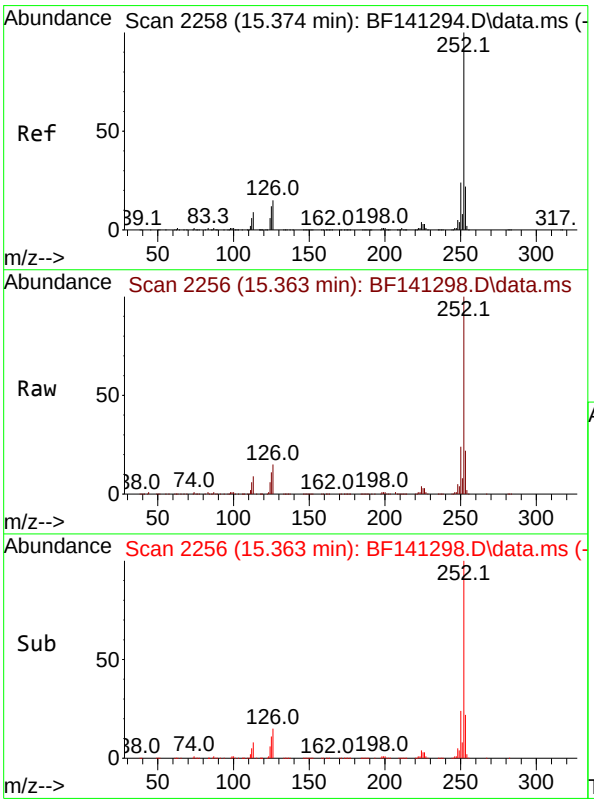
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	11.0	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

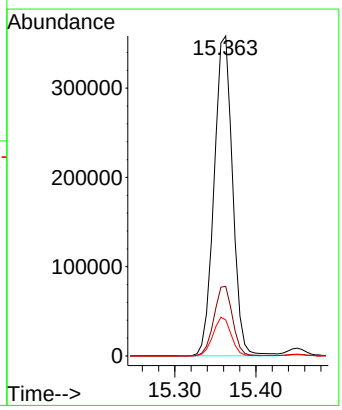
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

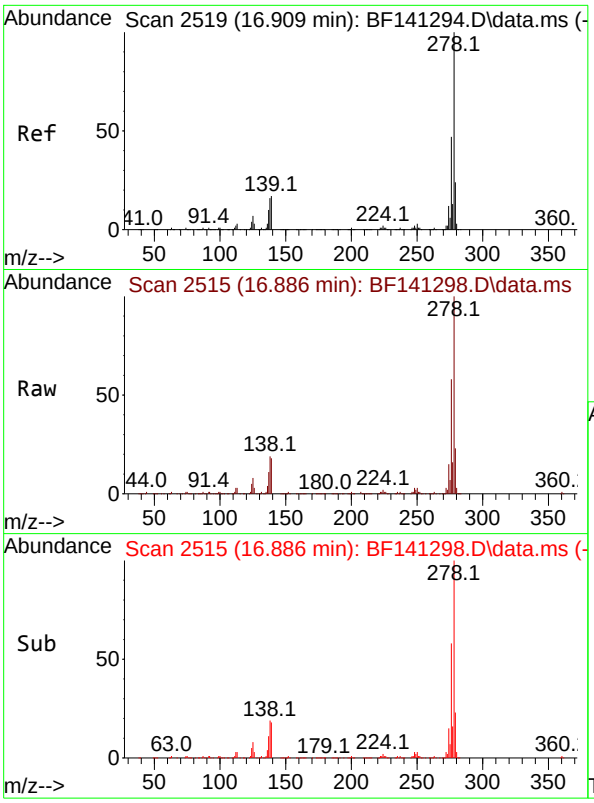


#90
Benzo(a)pyrene
Concen: 38.209 ng
RT: 15.363 min Scan# 2256
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:252 Resp: 567574

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.2	25.8
125	11.2	9.4	14.2

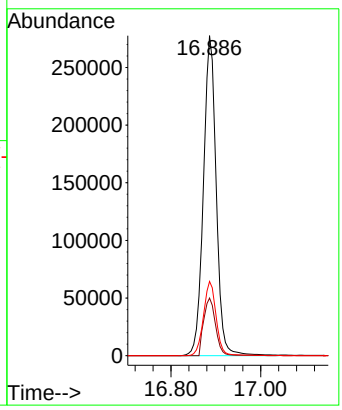




#91
Dibenzo(a,h)anthracene
Concen: 38.007 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:278 Resp: 55153

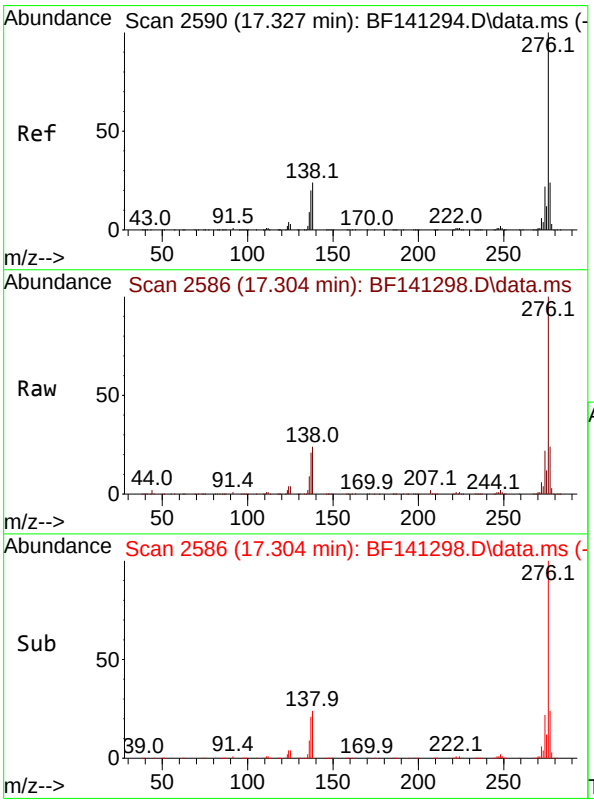
Ion	Ratio	Lower	Upper
278	100		
139	18.0	13.9	20.9
279	23.2	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations
APPROVED

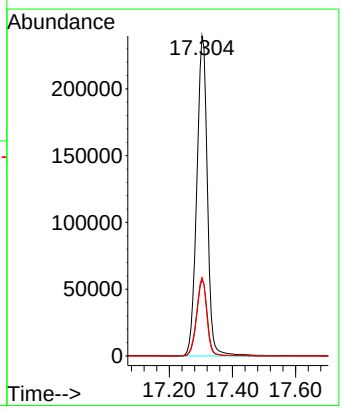
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 37.101 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.041 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:276 Resp: 559807

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.2	28.8
138	24.4	19.0	28.4



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	98	0.00
2		1,4-Dioxane	0.573	0.534	6.8	97	0.00
3		Pyridine	1.380	1.326	3.9	98	-0.01
4		n-Nitrosodimethylamine	0.789	0.749	5.1	97	-0.03
5	S	2-Fluorophenol	1.303	1.221	6.3	99	0.00
6		Aniline	1.403	1.383	1.4	99	0.00
7	S	Phenol-d6	1.657	1.546	6.7	99	-0.01
8		2-Chlorophenol	1.396	1.309	6.2	99	-0.01
9		Benzaldehyde	0.960	0.887	7.6	97	0.00
10	C	Phenol	1.757	1.664	5.3	99	-0.01
11		bis(2-Chloroethyl)ether	1.347	1.259	6.5	100	-0.01
12		1,3-Dichlorobenzene	1.540	1.435	6.8	98	0.00
13	C	1,4-Dichlorobenzene	1.547	1.465	5.3	100	0.00
14		1,2-Dichlorobenzene	1.448	1.348	6.9	98	0.00
15		Benzyl Alcohol	1.133	1.075	5.1	97	0.00
16		2,2'-oxybis(1-Chloropropane	2.342	2.204	5.9	98	0.00
17		2-Methylphenol	1.135	1.037	8.6	97	0.00
18		Hexachloroethane	0.571	0.543	4.9	100	0.00
19	P	n-Nitroso-di-n-propylamine	0.985	0.907	7.9	99	-0.02
20		3+4-Methylphenols	1.393	1.302	6.5	99	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
22		Acetophenone	0.475	0.436	8.2	99	0.00
23	S	Nitrobenzene-d5	0.379	0.359	5.3	100	0.00
24		Nitrobenzene	0.393	0.373	5.1	99	-0.01
25		Isophorone	0.656	0.614	6.4	99	0.00
26	C	2-Nitrophenol	0.185	0.177	4.3	99	0.00
27		2,4-Dimethylphenol	0.236	0.225	4.7	99	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.392	6.2	99	0.00
29	C	2,4-Dichlorophenol	0.289	0.272	5.9	99	0.00
30		1,2,4-Trichlorobenzene	0.330	0.301	8.8	98	0.00
31		Naphthalene	1.057	0.981	7.2	99	0.00
32		Benzoic acid	0.217	0.225	-3.7	101	-0.04
33		4-Chloroaniline	0.358	0.333	7.0	97	0.00
34	C	Hexachlorobutadiene	0.194	0.177	8.8	98	0.00
35		Caprolactam	0.094	0.089	5.3	99	-0.02
36	C	4-Chloro-3-methylphenol	0.310	0.290	6.5	100	0.00
37		2-Methylnaphthalene	0.672	0.619	7.9	98	0.00
38		1-Methylnaphthalene	0.660	0.620	6.1	101	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
40		1,2,4,5-Tetrachlorobenzene	0.569	0.530	6.9	98	0.00
41	P	Hexachlorocyclopentadiene	0.168	0.168	0.0	97	0.00
42	S	2,4,6-Tribromophenol	0.183	0.172	6.0	99	0.00
43	C	2,4,6-Trichlorophenol	0.372	0.360	3.2	98	0.00
44		2,4,5-Trichlorophenol	0.405	0.375	7.4	98	0.00
45	S	2-Fluorobiphenyl	1.299	1.185	8.8	99	0.00
46		1,1'-Biphenyl	1.560	1.447	7.2	98	0.00
47		2-Chloronaphthalene	1.216	1.120	7.9	99	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.363	5.0	99	0.00
49		Acenaphthylene	1.702	1.592	6.5	99	0.00
50		Dimethylphthalate	1.351	1.246	7.8	99	0.00
51		2,6-Dinitrotoluene	0.314	0.294	6.4	98	0.00
52	C	Acenaphthene	1.216	1.131	7.0	99	0.00
53		3-Nitroaniline	0.307	0.293	4.6	96	0.00
54	P	2,4-Dinitrophenol	0.146	0.145	0.7	97	-0.01
55		Dibenzofuran	1.627	1.506	7.4	98	0.00
56	P	4-Nitrophenol	0.225	0.220	2.2	97	-0.01
57		2,4-Dinitrotoluene	0.406	0.389	4.2	100	-0.01
58		Fluorene	1.262	1.150	8.9	97	0.00
59		2,3,4,6-Tetrachlorophenol	0.319	0.302	5.3	98	0.00
60		Diethylphthalate	1.310	1.222	6.7	99	0.00
61		4-Chlorophenyl-phenylether	0.617	0.558	9.6	97	0.00
62		4-Nitroaniline	0.302	0.285	5.6	97	-0.01
63		Azobenzene	1.311	1.213	7.5	98	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.124	-5.1	97	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.627	3.1	98	0.00
67		4-Bromophenyl-phenylether	0.224	0.221	1.3	100	0.00
68		Hexachlorobenzene	0.238	0.231	2.9	99	0.00
69		Atrazine	0.216	0.212	1.9	98	0.00
70	C	Pentachlorophenol	0.139	0.142	-2.2	98	0.00
71		Phenanthrene	1.075	1.024	4.7	98	0.00
72		Anthracene	1.053	1.013	3.8	99	0.00
73		Carbazole	0.934	0.903	3.3	99	0.00
74		Di-n-butylphthalate	1.132	1.093	3.4	99	0.00
75	C	Fluoranthene	1.062	1.002	5.6	97	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	99	0.00
77		Benzidine	0.641	0.788	-22.9	106	0.00
78		Pyrene	1.920	1.739	9.4	98	0.00
79	S	Terphenyl-d14	1.297	1.175	9.4	98	0.00
80		Butylbenzylphthalate	0.671	0.631	6.0	100	0.00
81		Benzo(a)anthracene	1.380	1.228	11.0	95	0.00
82		3,3'-Dichlorobenzidine	0.439	0.425	3.2	100	0.00
83		Chrysene	1.265	1.186	6.2	103	0.00
84		Bis(2-ethylhexyl)phthalate	0.851	0.779	8.5	98	0.00
85	c	Di-n-octyl phthalate	1.321	1.249	5.5	100	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	100	-0.02
87		Indeno(1,2,3-cd)pyrene	1.291	1.214	6.0	97	-0.03
88		Benzo(b)fluoranthene	1.258	1.222	2.9	109	-0.02
89		Benzo(k)fluoranthene	1.114	0.997	10.5	92	-0.02
90	C	Benzo(a)pyrene	1.063	1.016	4.4	100	-0.02
91		Dibenzo(a,h)anthracene	1.039	0.987	5.0	97	-0.04
92		Benzo(g,h,i)perylene	1.080	1.002	7.2	96	-0.04

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	98	0.00
2		1,4-Dioxane	40.000	37.296	6.8	97	0.00
3		Pyridine	40.000	38.413	4.0	98	-0.01
4		n-Nitrosodimethylamine	40.000	37.977	5.1	97	-0.03
5	S	2-Fluorophenol	80.000	74.963	6.3	99	0.00
6		Aniline	40.000	39.437	1.4	99	0.00
7	S	Phenol-d6	80.000	74.641	6.7	99	-0.01
8		2-Chlorophenol	40.000	37.505	6.2	99	-0.01
9		Benzaldehyde	40.000	36.965	7.6	97	0.00
10	C	Phenol	40.000	37.888	5.3	99	-0.01
11		bis(2-Chloroethyl)ether	40.000	37.387	6.5	100	-0.01
12		1,3-Dichlorobenzene	40.000	37.288	6.8	98	0.00
13	C	1,4-Dichlorobenzene	40.000	37.885	5.3	100	0.00
14		1,2-Dichlorobenzene	40.000	37.241	6.9	98	0.00
15		Benzyl Alcohol	40.000	37.952	5.1	97	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.636	5.9	98	0.00
17		2-Methylphenol	40.000	36.544	8.6	97	0.00
18		Hexachloroethane	40.000	38.094	4.8	100	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.848	7.9	99	-0.02
20		3+4-Methylphenols	40.000	37.364	6.6	99	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	99	0.00
22		Acetophenone	40.000	36.717	8.2	99	0.00
23	S	Nitrobenzene-d5	80.000	75.630	5.5	100	0.00
24		Nitrobenzene	40.000	37.927	5.2	99	-0.01
25		Isophorone	40.000	37.439	6.4	99	0.00
26	C	2-Nitrophenol	40.000	38.289	4.3	99	0.00
27		2,4-Dimethylphenol	40.000	38.055	4.9	99	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.460	6.3	99	0.00
29	C	2,4-Dichlorophenol	40.000	37.675	5.8	99	0.00
30		1,2,4-Trichlorobenzene	40.000	36.488	8.8	98	0.00
31		Naphthalene	40.000	37.128	7.2	99	0.00
32		Benzoic acid	40.000	41.534	-3.8	101	-0.04
33		4-Chloroaniline	40.000	37.214	7.0	97	0.00
34	C	Hexachlorobutadiene	40.000	36.676	8.3	98	0.00
35		Caprolactam	40.000	37.662	5.8	99	-0.02
36	C	4-Chloro-3-methylphenol	40.000	37.480	6.3	100	0.00
37		2-Methylnaphthalene	40.000	36.898	7.8	98	0.00
38		1-Methylnaphthalene	40.000	37.570	6.1	101	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	99	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	37.226	6.9	98	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.961	0.1	97	0.00
42	S	2,4,6-Tribromophenol	80.000	75.161	6.0	99	0.00
43	C	2,4,6-Trichlorophenol	40.000	38.625	3.4	98	0.00
44		2,4,5-Trichlorophenol	40.000	36.969	7.6	98	0.00
45	S	2-Fluorobiphenyl	80.000	72.938	8.8	99	0.00
46		1,1'-Biphenyl	40.000	37.111	7.2	98	0.00
47		2-Chloronaphthalene	40.000	36.837	7.9	99	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	37.970	5.1	99	0.00
49		Acenaphthylene	40.000	37.416	6.5	99	0.00
50		Dimethylphthalate	40.000	36.904	7.7	99	0.00
51		2,6-Dinitrotoluene	40.000	37.459	6.4	98	0.00
52	C	Acenaphthene	40.000	37.206	7.0	99	0.00
53		3-Nitroaniline	40.000	38.150	4.6	96	0.00
54	P	2,4-Dinitrophenol	40.000	39.734	0.7	97	-0.01
55		Dibenzofuran	40.000	37.012	7.5	98	0.00
56	P	4-Nitrophenol	40.000	39.089	2.3	97	-0.01
57		2,4-Dinitrotoluene	40.000	38.327	4.2	100	-0.01
58		Fluorene	40.000	36.451	8.9	97	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	37.902	5.2	98	0.00
60		Diethylphthalate	40.000	37.316	6.7	99	0.00
61		4-Chlorophenyl-phenylether	40.000	36.180	9.6	97	0.00
62		4-Nitroaniline	40.000	37.665	5.8	97	-0.01
63		Azobenzene	40.000	37.020	7.4	98	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	98	0.00
65		4,6-Dinitro-2-methylphenol	40.000	41.913	-4.8	97	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.757	3.1	98	0.00
67		4-Bromophenyl-phenylether	40.000	39.477	1.3	100	0.00
68		Hexachlorobenzene	40.000	38.929	2.7	99	0.00
69		Atrazine	40.000	39.215	2.0	98	0.00
70	C	Pentachlorophenol	40.000	40.973	-2.4	98	0.00
71		Phenanthrene	40.000	38.117	4.7	98	0.00
72		Anthracene	40.000	38.484	3.8	99	0.00
73		Carbazole	40.000	38.661	3.3	99	0.00
74		Di-n-butylphthalate	40.000	38.639	3.4	99	0.00
75	C	Fluoranthene	40.000	37.768	5.6	97	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	99	0.00
77		Benzidine	40.000	49.142	-22.9	106	0.00
78		Pyrene	40.000	36.225	9.4	98	0.00
79	S	Terphenyl-d14	80.000	72.460	9.4	98	0.00
80		Butylbenzylphthalate	40.000	37.660	5.9	100	0.00
81		Benzo(a)anthracene	40.000	35.587	11.0	95	0.00
82		3,3'-Dichlorobenzidine	40.000	38.774	3.1	100	0.00
83		Chrysene	40.000	37.508	6.2	103	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	36.620	8.5	98	0.00
85	c	Di-n-octyl phthalate	40.000	37.807	5.5	100	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	100	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	37.626	5.9	97	-0.03
88		Benzo(b)fluoranthene	40.000	38.861	2.8	109	-0.02
89		Benzo(k)fluoranthene	40.000	35.766	10.6	92	-0.02
90	C	Benzo(a)pyrene	40.000	38.209	4.5	100	-0.02
91		Dibenzo(a,h)anthracene	40.000	38.007	5.0	97	-0.04
92		Benzo(g,h,i)perylene	40.000	37.101	7.2	96	-0.04

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Instrument ID: BNA_F Calibration Date/Time: 01/31/2025 17:19

Lab File ID: BF141336.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.326		-3.9	
2-Fluorophenol	1.303	1.218		-6.5	
Phenol-d6	1.657	1.534		-7.4	
1,4-Dichlorobenzene	1.547	1.437		-7.2	20.0
2-Methylphenol	1.135	1.062		-6.4	
3+4-Methylphenols	1.393	1.318		-5.4	
Nitrobenzene-d5	0.379	0.348		-8.2	
Hexachloroethane	0.571	0.536		-6.1	
Nitrobenzene	0.393	0.365		-7.1	
Hexachlorobutadiene	0.194	0.179		-7.7	20.0
2,4,6-Trichlorophenol	0.372	0.365		-1.9	20.0
2-Fluorobiphenyl	1.299	1.148		-11.6	
2,4,5-Trichlorophenol	0.405	0.381		-5.9	
2,4-Dinitrotoluene	0.406	0.427		5.2	
2,4,6-Tribromophenol	0.183	0.177		-3.3	
Hexachlorobenzene	0.238	0.232		-2.5	
Pentachlorophenol	0.139	0.186		33.8	20.0
Terphenyl-d14	1.297	1.177		-9.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	140033	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	558386	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	299701	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	493954	20.000	ng	0.00
76) Chrysene-d12	13.968	240	281629	20.000	ng	0.00
86) Perylene-d12	15.433	264	286623	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	682309	74.803	ng	-0.01
7) Phenol-d6	6.428	99	859443	74.066	ng	-0.01
23) Nitrobenzene-d5	7.363	82	776494	73.308	ng	0.00
42) 2,4,6-Tribromophenol	10.628	330	211897	77.122	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1376427	70.690	ng	0.00
79) Terphenyl-d14	12.910	244	1325492	72.583	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.487	88	152703	38.066	ng	99
3) Pyridine	3.210	79	371435	38.429	ng	100
4) n-Nitrosodimethylamine	3.163	42	210093	38.050	ng	100
6) Aniline	6.457	93	376476	38.328	ng	93
8) 2-Chlorophenol	6.581	128	365957	37.432	ng	99
9) Benzaldehyde	6.345	77	272105	40.484	ng	99
10) Phenol	6.440	94	462764	37.622	ng	99
11) bis(2-Chloroethyl)ether	6.534	93	354960	37.636	ng	99
12) 1,3-Dichlorobenzene	6.740	146	403414	37.423	ng	99
13) 1,4-Dichlorobenzene	6.816	146	402314	37.151	ng	100
14) 1,2-Dichlorobenzene	6.969	146	377953	37.272	ng	99
15) Benzyl Alcohol	6.939	79	308313	38.880	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	615868	37.552	ng	100
17) 2-Methylphenol	7.051	107	297446	37.434	ng	98
18) Hexachloroethane	7.310	117	150153	37.585	ng	99
19) n-Nitroso-di-n-propyla...	7.216	70	264932	38.424	ng	96
20) 3+4-Methylphenols	7.204	107	369223	37.845	ng	99
22) Acetophenone	7.210	105	473548	35.678	ng	100
24) Nitrobenzene	7.381	77	407415	37.116	ng	100
25) Isophorone	7.622	82	694555	37.934	ng	99
26) 2-Nitrophenol	7.698	139	195489	37.762	ng	99
27) 2,4-Dimethylphenol	7.734	122	250385	37.999	ng	98
28) bis(2-Chloroethoxy)met...	7.834	93	431598	36.955	ng	100
29) 2,4-Dichlorophenol	7.939	162	303375	37.608	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	333619	36.214	ng	100
31) Naphthalene	8.104	128	1078465	36.561	ng	100
32) Benzoic acid	7.845	122	252577	41.698	ng	99
33) 4-Chloroaniline	8.151	127	367291	36.719	ng	99
34) Hexachlorobutadiene	8.222	225	200005	37.021	ng	100
35) Caprolactam	8.522	113	101967	38.705	ng	99
36) 4-Chloro-3-methylphenol	8.633	107	380639	43.991	ng	98
37) 2-Methylnaphthalene	8.792	142	690288	36.818	ng	98
38) 1-Methylnaphthalene	8.892	142	675547	36.681	ng	99
40) 1,2,4,5-Tetrachloroben...	8.957	216	308854	36.224	ng	99
41) Hexachlorocyclopentadiene	8.945	237	95556	37.949	ng	99
43) 2,4,6-Trichlorophenol	9.069	196	218757	39.199	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

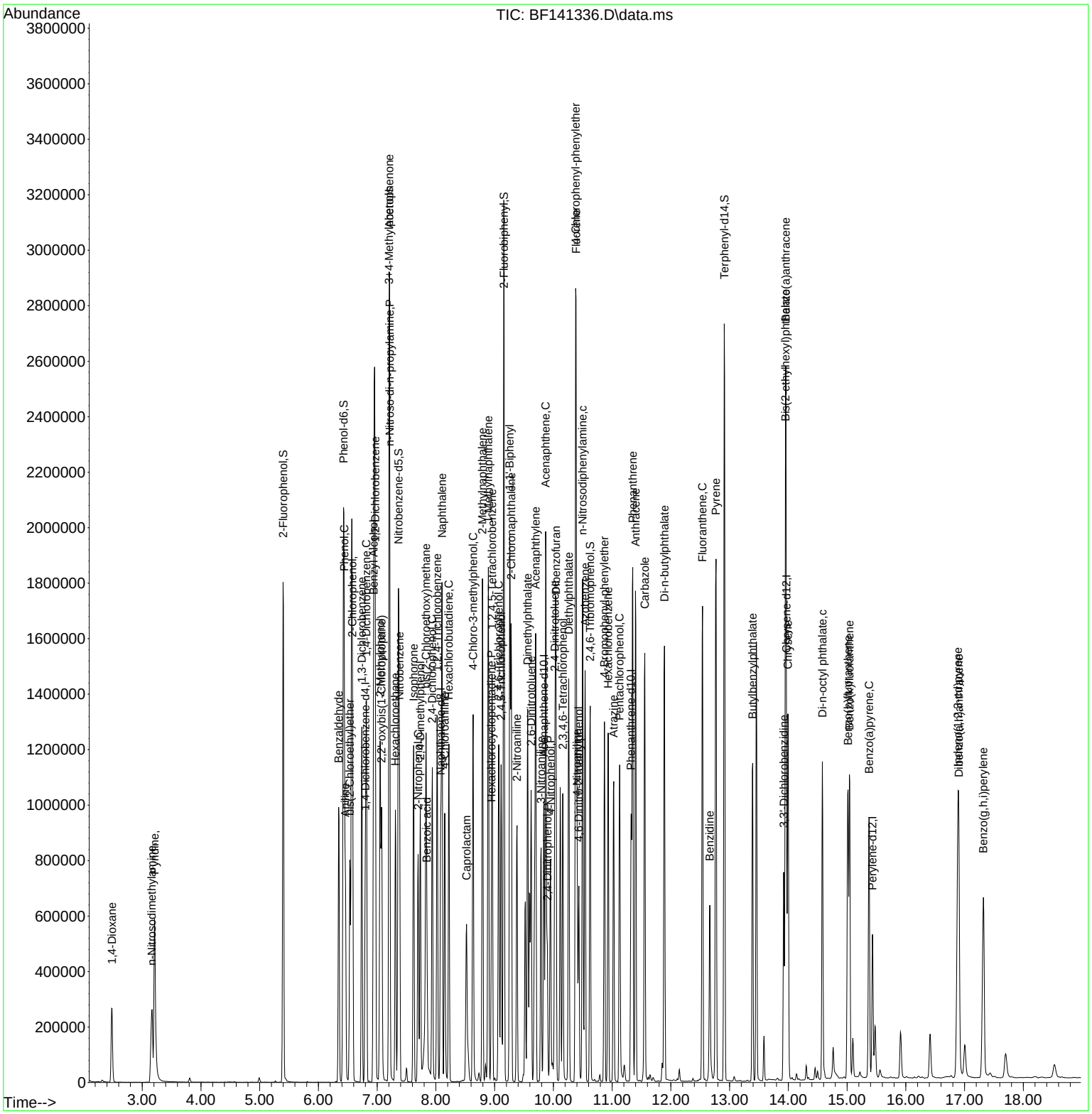
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	228427	37.608	ng	100
46) 1,1'-Biphenyl	9.257	154	855111	36.585	ng	100
47) 2-Chloronaphthalene	9.281	162	660426	36.251	ng	100
48) 2-Nitroaniline	9.381	65	219643	38.330	ng	100
49) Acenaphthylene	9.698	152	945423	37.073	ng	100
50) Dimethylphthalate	9.563	163	773243	38.200	ng	100
51) 2,6-Dinitrotoluene	9.622	165	179857	38.268	ng	99
52) Acenaphthene	9.869	154	675302	37.066	ng	99
53) 3-Nitroaniline	9.792	138	174746	37.936	ng	98
54) 2,4-Dinitrophenol	9.898	184	90166	41.270	ng	99
55) Dibenzofuran	10.045	168	887550	36.395	ng	100
56) 4-Nitrophenol	9.951	139	179822	53.378	ng	99
57) 2,4-Dinitrotoluene	10.028	165	255655	42.014	ng	99
58) Fluorene	10.386	166	690153	36.485	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.163	232	185895	38.903	ng	100
60) Diethylphthalate	10.263	149	748552	38.140	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	336871	36.458	ng	99
62) 4-Nitroaniline	10.404	138	172379	38.063	ng	98
63) Azobenzene	10.539	77	738145	37.573	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	129346	44.270	ng	99
66) n-Nitrosodiphenylamine	10.498	169	619094	38.751	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	216973	39.236	ng	97
68) Hexachlorobenzene	10.933	284	228716	38.991	ng	98
69) Atrazine	11.027	200	181536	33.985	ng	98
70) Pentachlorophenol	11.127	266	184030	53.575	ng	98
71) Phenanthrene	11.351	178	1004184	37.819	ng	100
72) Anthracene	11.398	178	987277	37.948	ng	99
73) Carbazole	11.557	167	881695	38.220	ng	100
74) Di-n-butylphthalate	11.892	149	1102750	39.444	ng	100
75) Fluoranthene	12.539	202	998810	38.098	ng	100
77) Benzidine	12.663	184	349084	38.664	ng	100
78) Pyrene	12.769	202	1097741	40.606	ng	100
80) Butylbenzylphthalate	13.392	149	369304	39.103	ng	99
81) Benzo(a)anthracene	13.957	228	665086	34.223	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	223750	36.200	ng	100
83) Chrysene	13.992	228	664102	37.287	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	458911	38.304	ng	99
85) Di-n-octyl phthalate	14.580	149	723593	38.886	ng	100
87) Indeno(1,2,3-cd)pyrene	16.886	276	709942	38.376	ng	100
88) Benzo(b)fluoranthene	15.015	252	669775	37.149	ng	100
89) Benzo(k)fluoranthene	15.039	252	597549	37.413	ng	99
90) Benzo(a)pyrene	15.374	252	568194	37.294	ng	100
91) Dibenzo(a,h)anthracene	16.904	278	572387	38.458	ng	100
92) Benzo(g,h,i)perylene	17.321	276	601743	38.883	ng	100

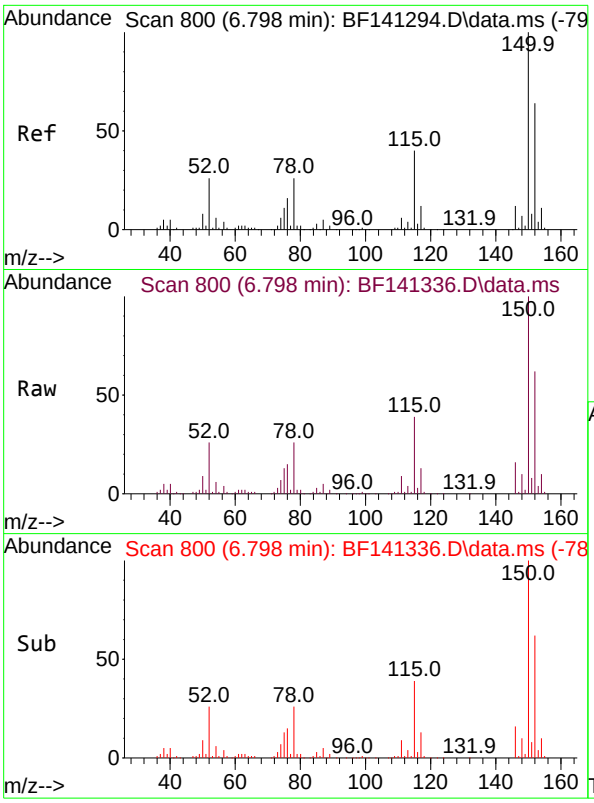
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



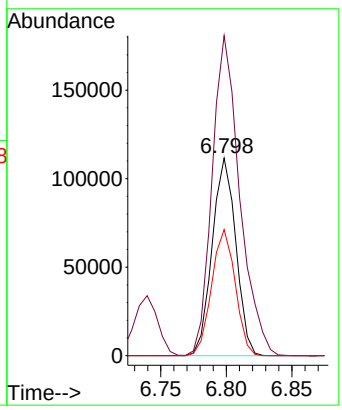


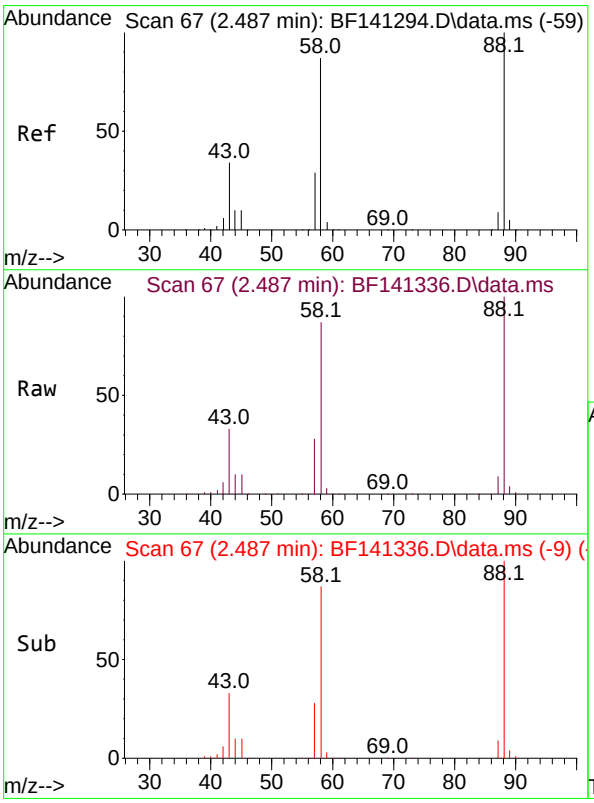
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 140033

Ion	Ratio	Lower	Upper
152	100		
150	161.9	125.9	188.9
115	63.8	49.7	74.5

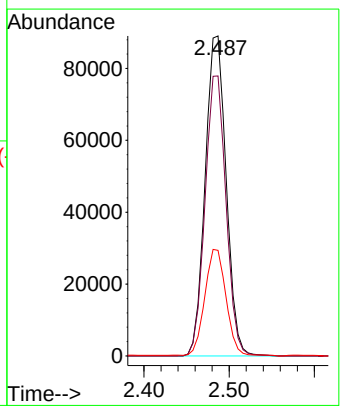


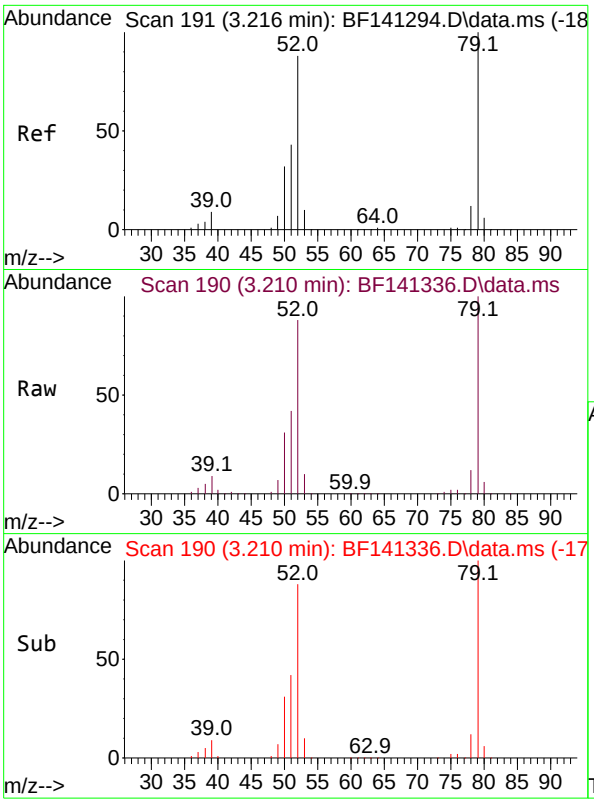


#2
1,4-Dioxane
Concen: 38.066 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 88 Resp: 152703

Ion	Ratio	Lower	Upper
88	100		
58	87.4	70.2	105.4
43	33.9	27.6	41.4



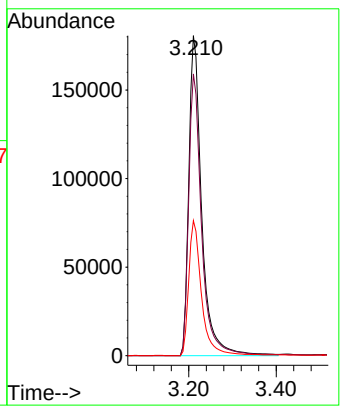


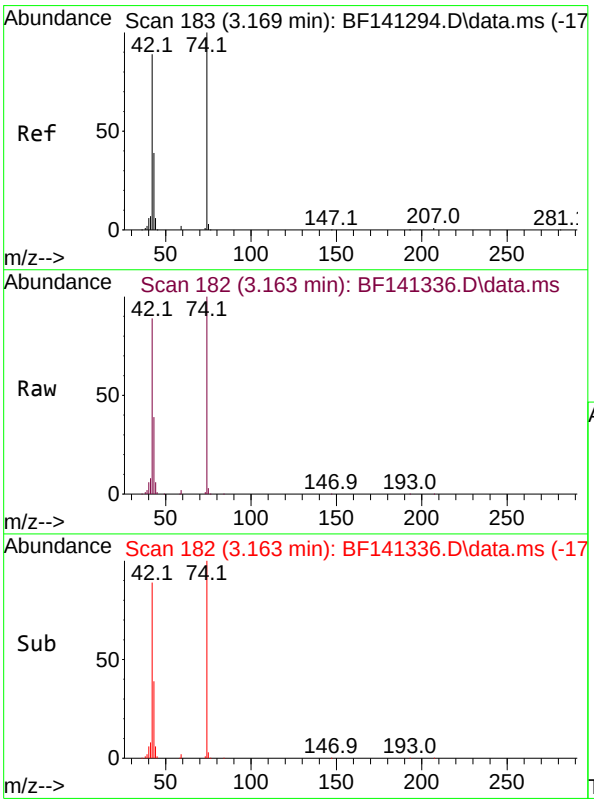
#3
Pyridine
Concen: 38.429 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 371435

Ion	Ratio	Lower	Upper
79	100		
52	88.0	70.3	105.5
51	42.2	34.3	51.5

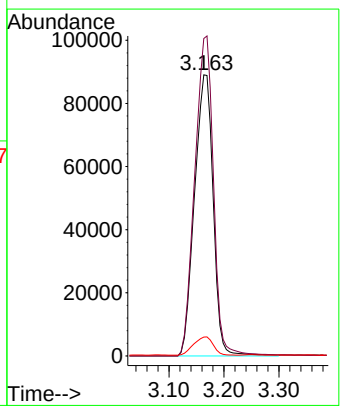


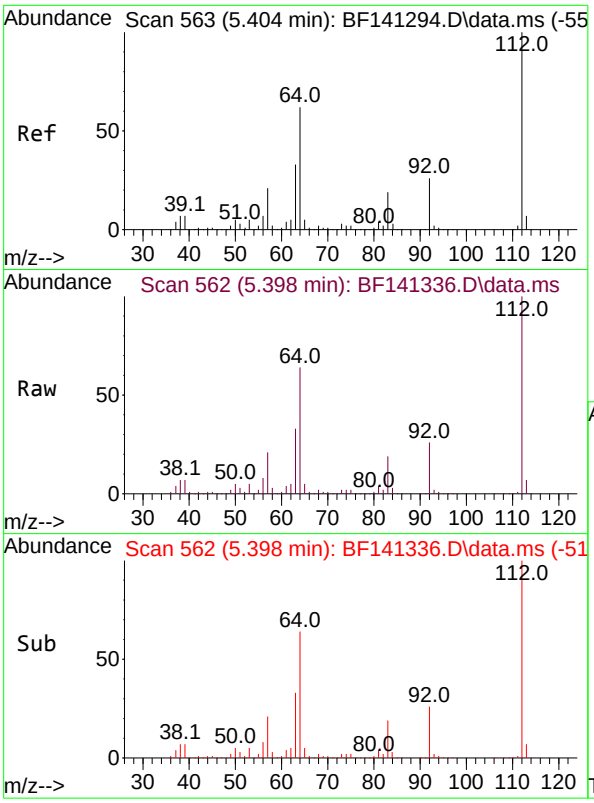


#4
n-Nitrosodimethylamine
Concen: 38.050 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.035 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 42 Resp: 210093

Ion	Ratio	Lower	Upper
42	100		
74	112.9	90.3	135.5
44	6.7	5.7	8.5



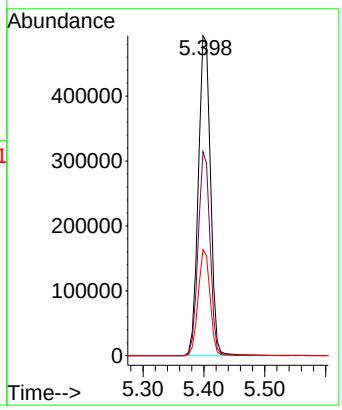


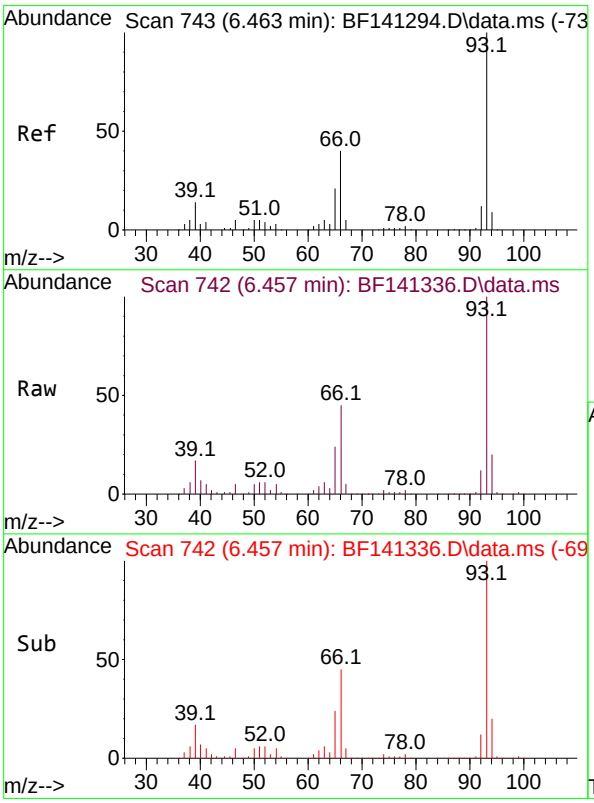
#5
2-Fluorophenol
Concen: 74.803 ng
RT: 5.398 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 682309

Ion	Ratio	Lower	Upper
112	100		
64	63.7	49.8	74.8
63	33.2	26.1	39.1

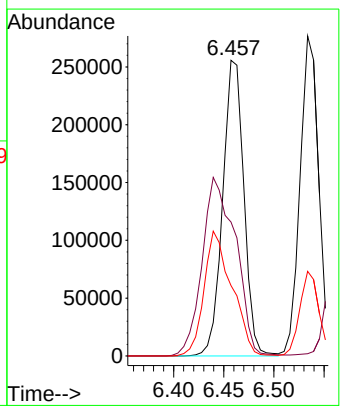


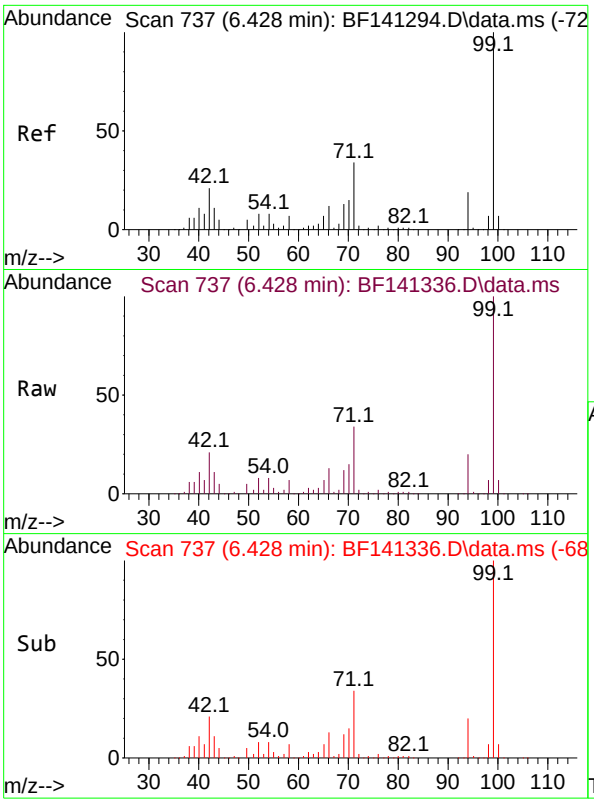


#6
Aniline
Concen: 38.328 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 93 Resp: 376476

Ion	Ratio	Lower	Upper
93	100		
66	45.3	32.5	48.7
65	23.8	17.0	25.6



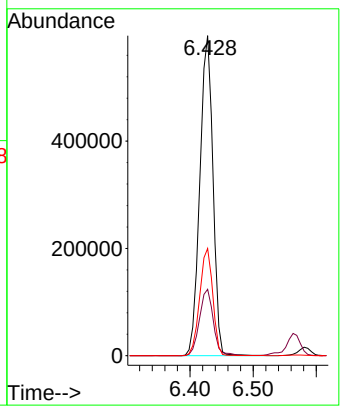


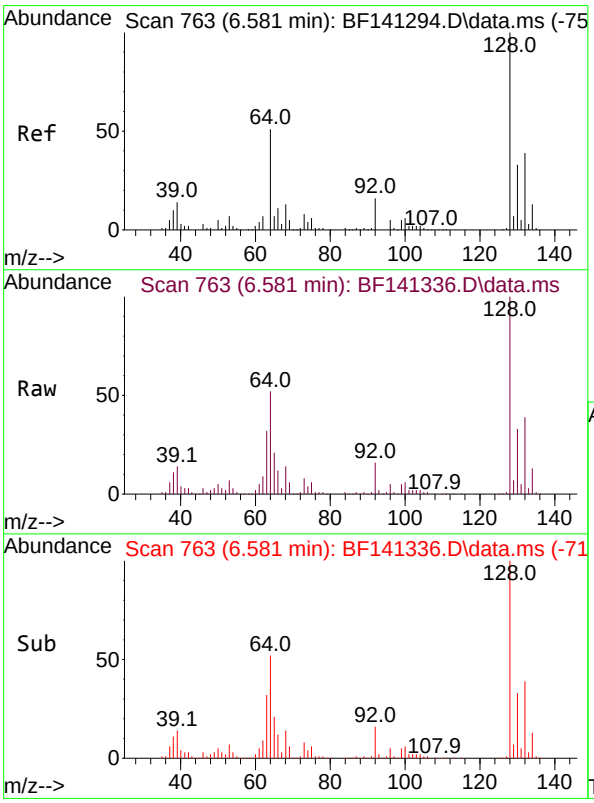
#7
Phenol-d6
Concen: 74.066 ng
RT: 6.428 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 859443

Ion	Ratio	Lower	Upper
99	100		
42	20.7	17.1	25.7
71	33.5	26.9	40.3

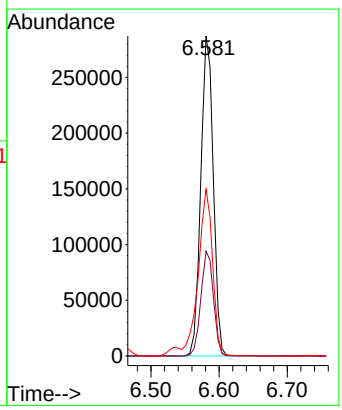


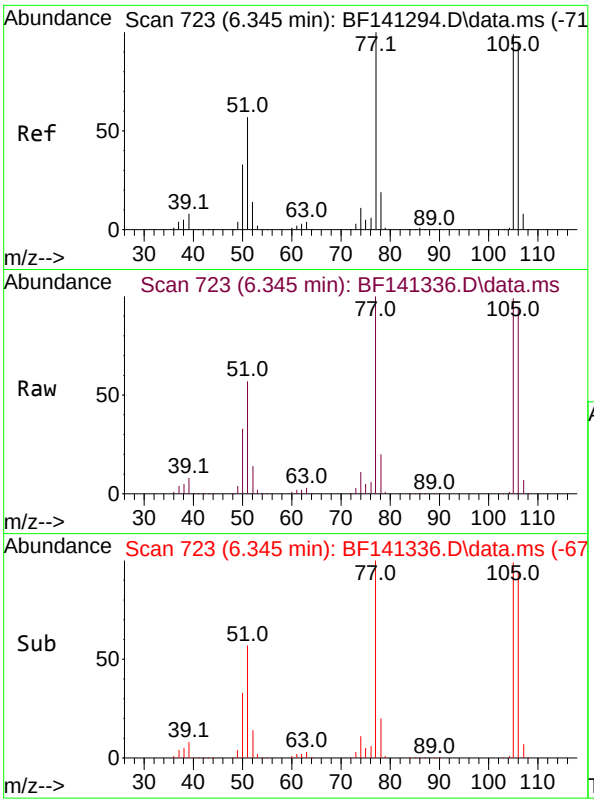


#8
2-Chlorophenol
Concen: 37.432 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:128 Resp: 365957

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.5	52.5
64	52.1	32.9	72.9



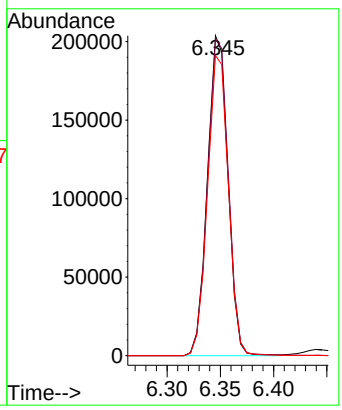


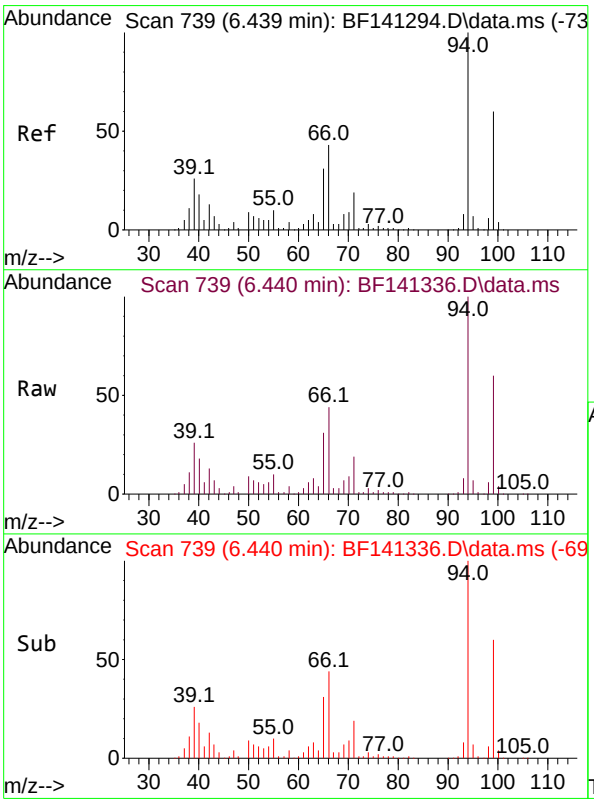
#9
Benzaldehyde
Concen: 40.484 ng
RT: 6.345 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 272105

Ion	Ratio	Lower	Upper
77	100		
105	99.1	79.4	119.4
106	93.8	74.6	114.6

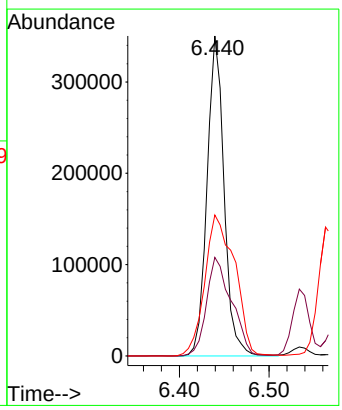


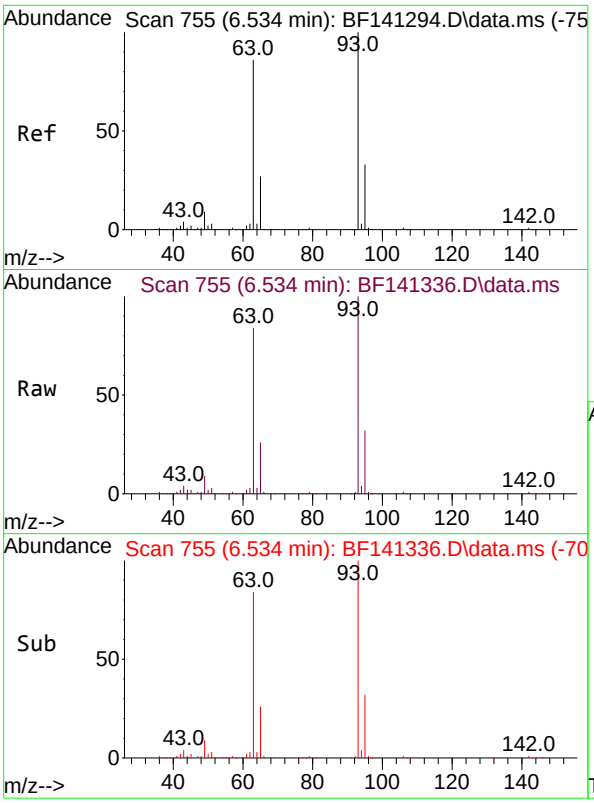


#10
Phenol
Concen: 37.622 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 94 Resp: 462764

Ion	Ratio	Lower	Upper
94	100		
65	30.8	10.8	50.8
66	44.1	23.3	63.3



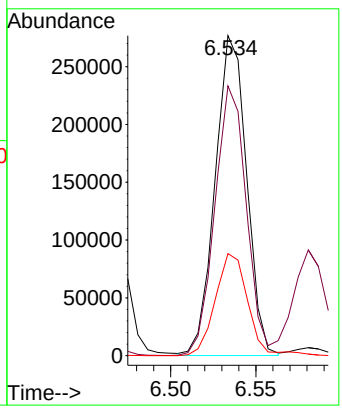


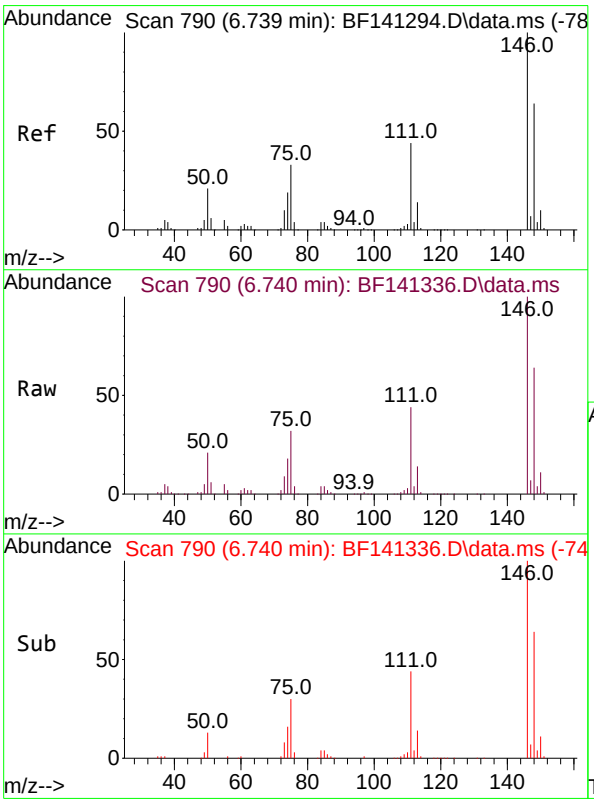
#11
bis(2-Chloroethyl)ether
Concen: 37.636 ng
RT: 6.534 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 354960

Ion	Ratio	Lower	Upper
93	100		
63	84.3	65.0	105.0
95	31.9	12.4	52.4

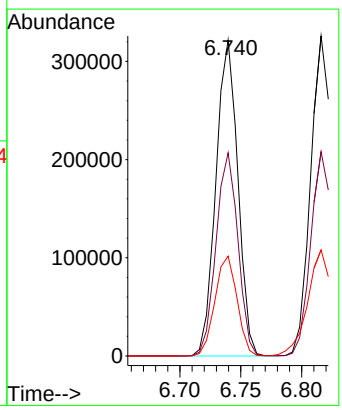


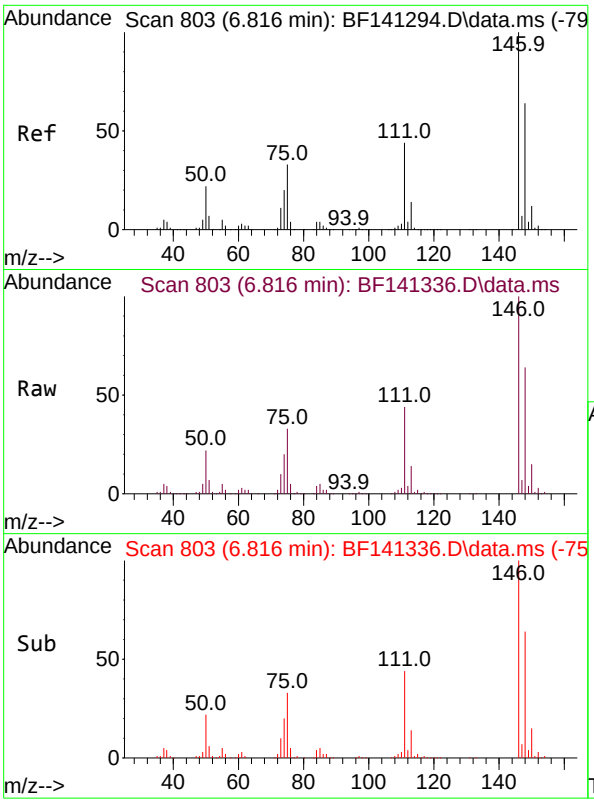


#12
1,3-Dichlorobenzene
Concen: 37.423 ng
RT: 6.740 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:146 Resp: 403414

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.2	76.8
75	31.6	26.2	39.4



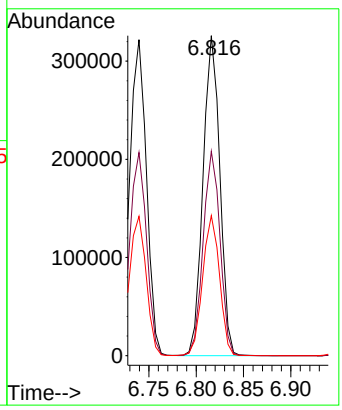


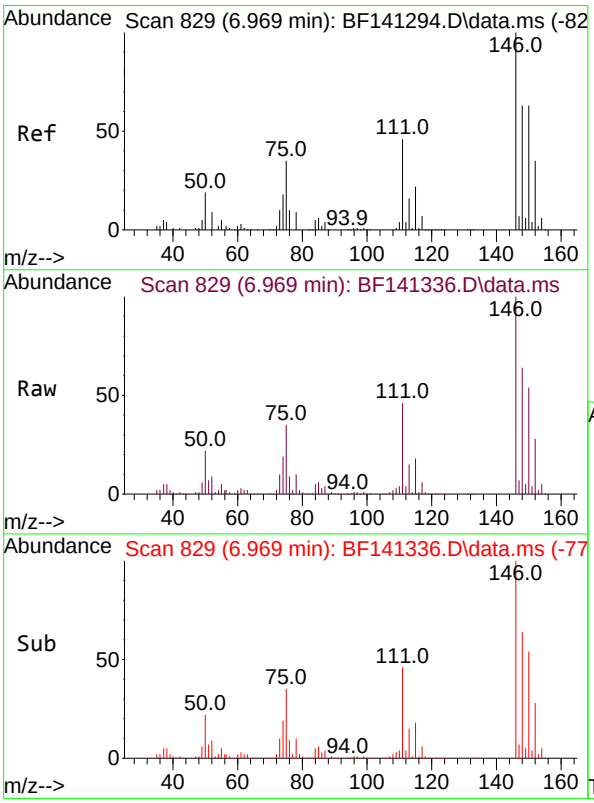
#13
1,4-Dichlorobenzene
Concen: 37.151 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 402314

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
111	43.7	35.0	52.4

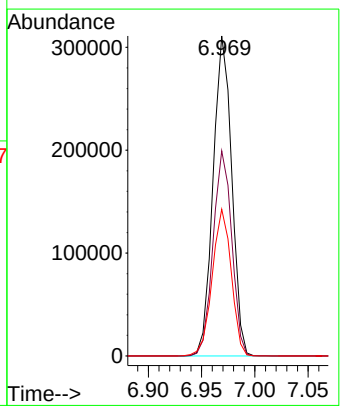


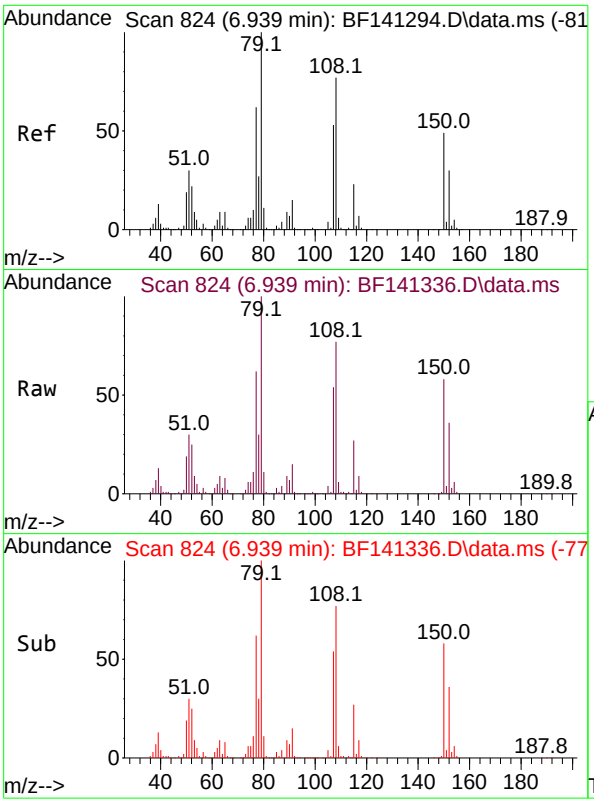


#14
1,2-Dichlorobenzene
Concen: 37.272 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:146 Resp: 377953

Ion	Ratio	Lower	Upper
146	100		
148	64.1	50.5	75.7
111	45.9	36.6	55.0



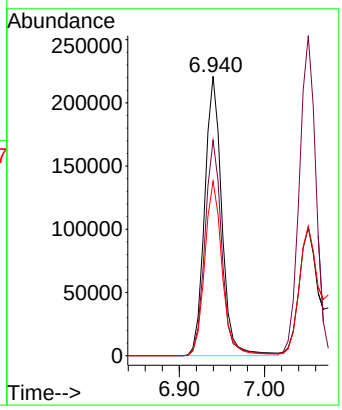


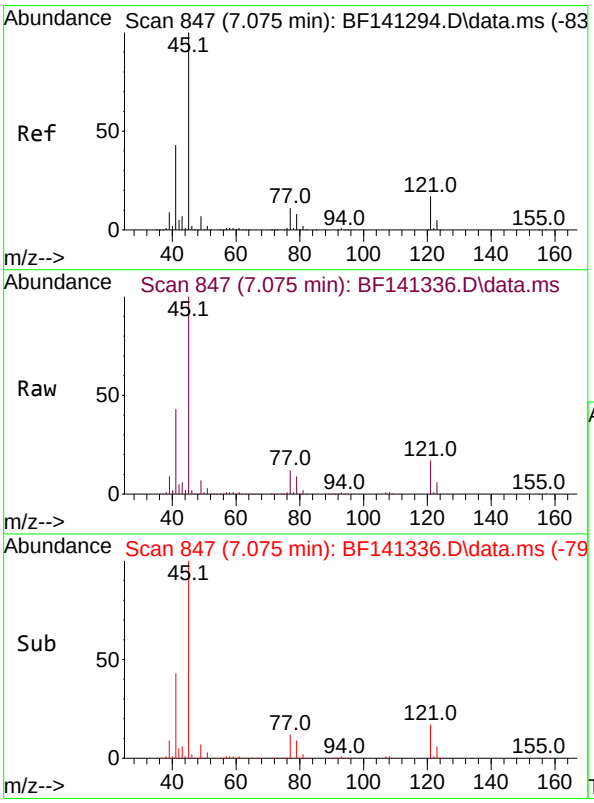
#15
Benzyl Alcohol
Concen: 38.880 ng
RT: 6.939 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 308313

Ion	Ratio	Lower	Upper
79	100		
108	77.1	61.4	92.0
77	62.4	49.9	74.9

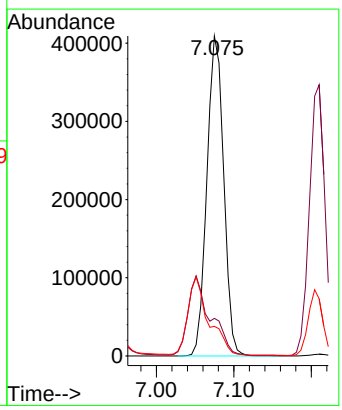


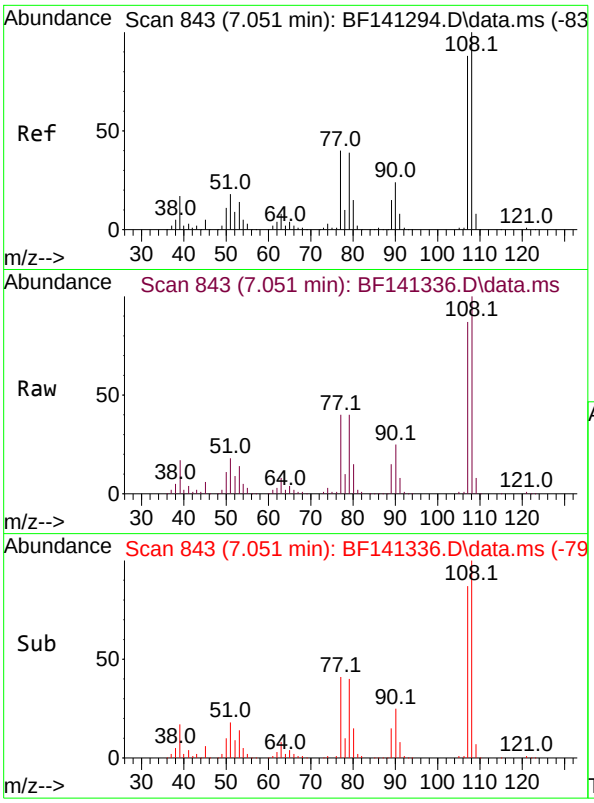


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.552 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 45 Resp: 615868

Ion	Ratio	Lower	Upper
45	100		
77	11.8	0.0	31.8
79	9.2	0.0	29.1



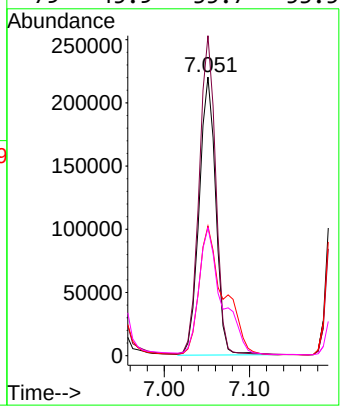


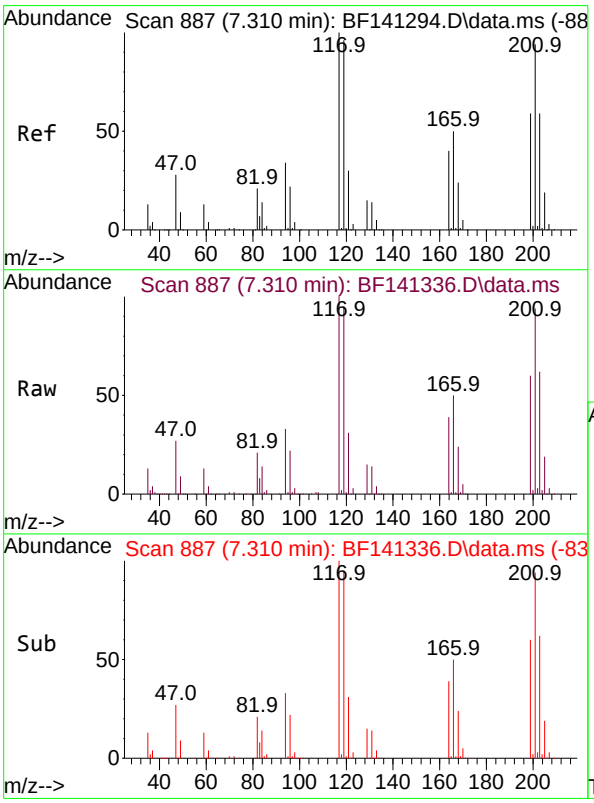
#17
2-Methylphenol
Concen: 37.434 ng
RT: 7.051 min Scan# 84
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 297446

Ion	Ratio	Lower	Upper
107	100		
108	114.9	90.8	136.2
77	46.5	36.2	54.4
79	45.9	35.7	53.5

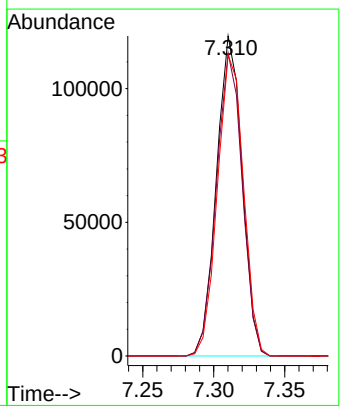


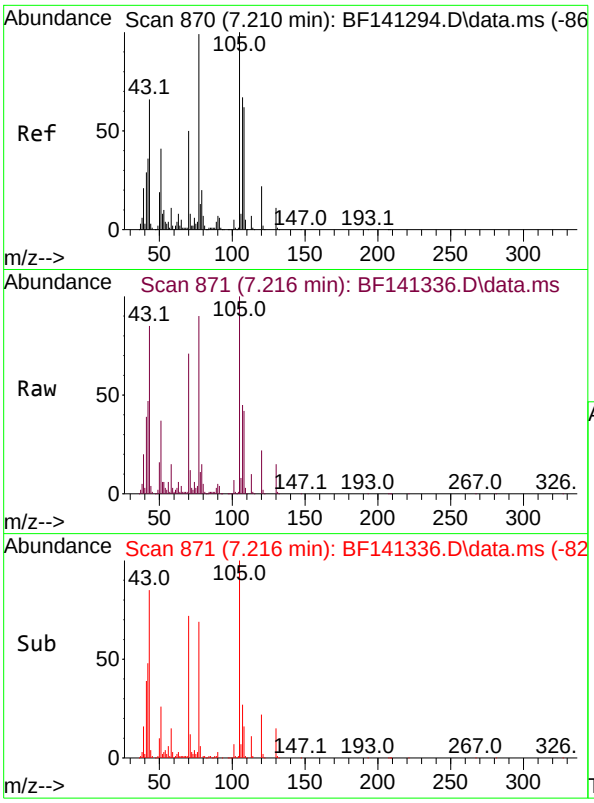


#18
Hexachloroethane
Concen: 37.585 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:117 Resp: 150153

Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.6	114.8
201	94.1	74.8	112.2



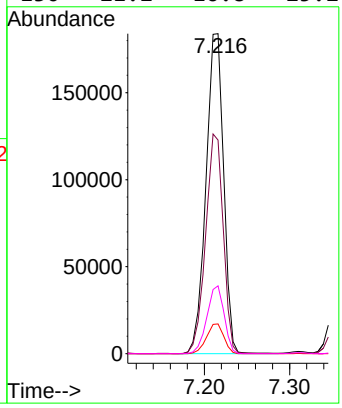


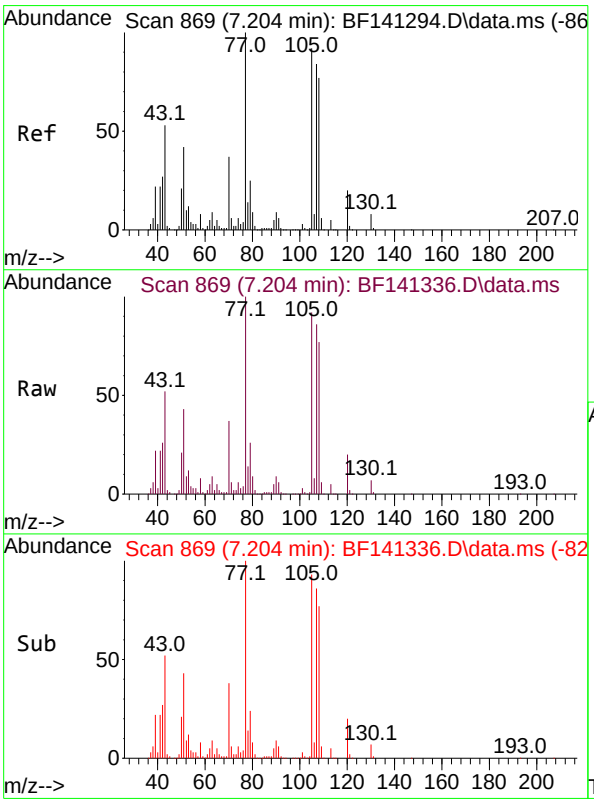
#19
n-Nitroso-di-n-propylamine
Concen: 38.424 ng
RT: 7.216 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 264932

Ion	Ratio	Lower	Upper
70	100		
42	66.7	56.8	85.2
101	9.3	7.7	11.5
130	21.2	16.8	25.2

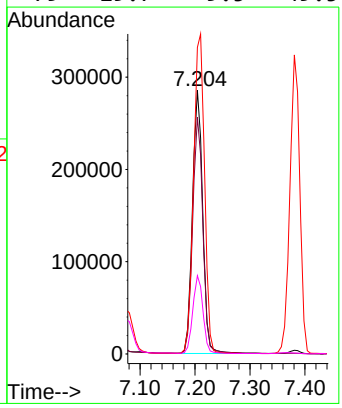


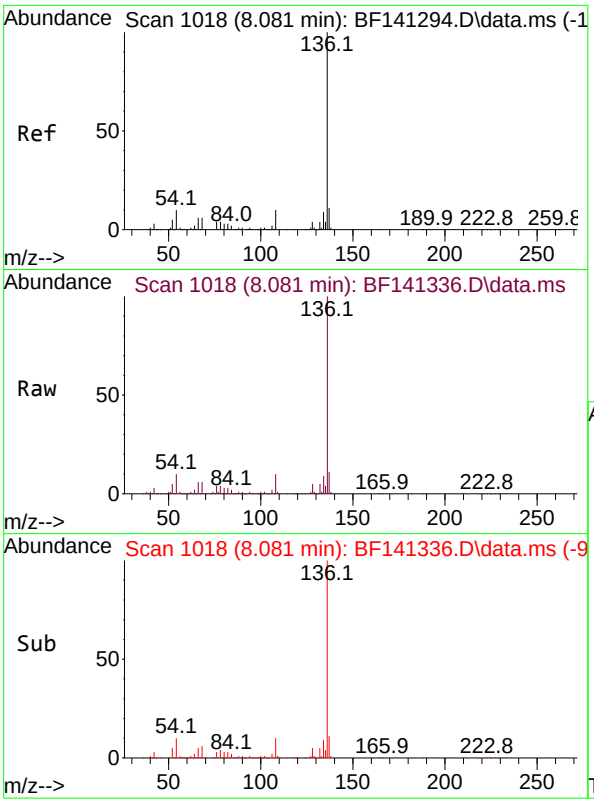


#20
3+4-Methylphenols
Concen: 37.845 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:107 Resp: 369223

Ion	Ratio	Lower	Upper
107	100		
108	89.8	70.9	110.9
77	116.3	98.5	138.5
79	29.7	9.5	49.5



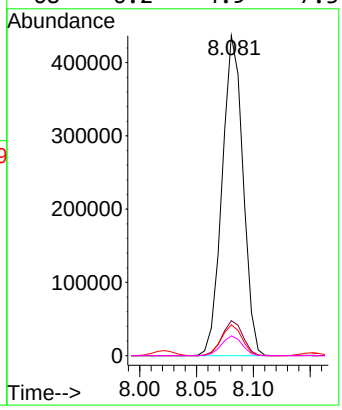


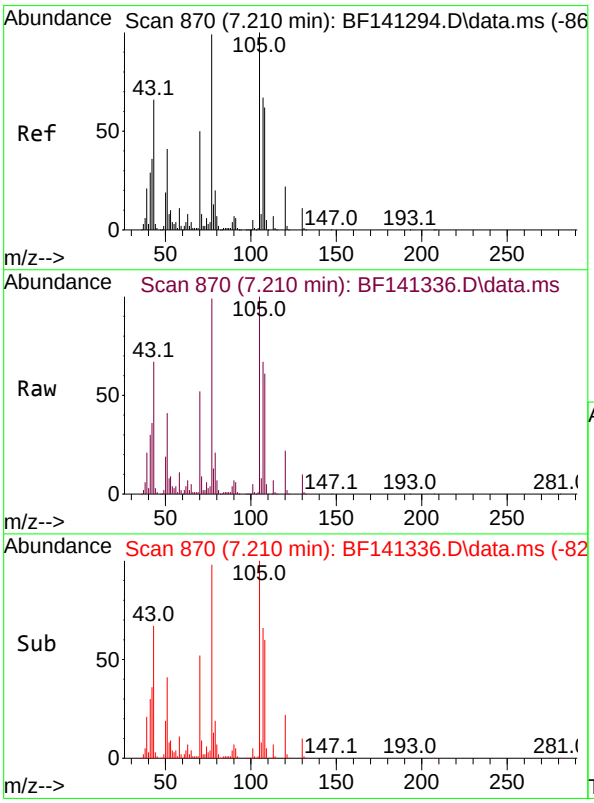
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 558386

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	9.6	7.8	11.8
68	6.2	4.9	7.3

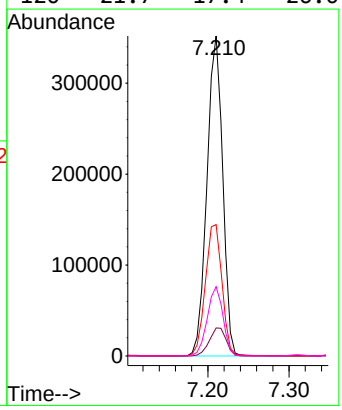


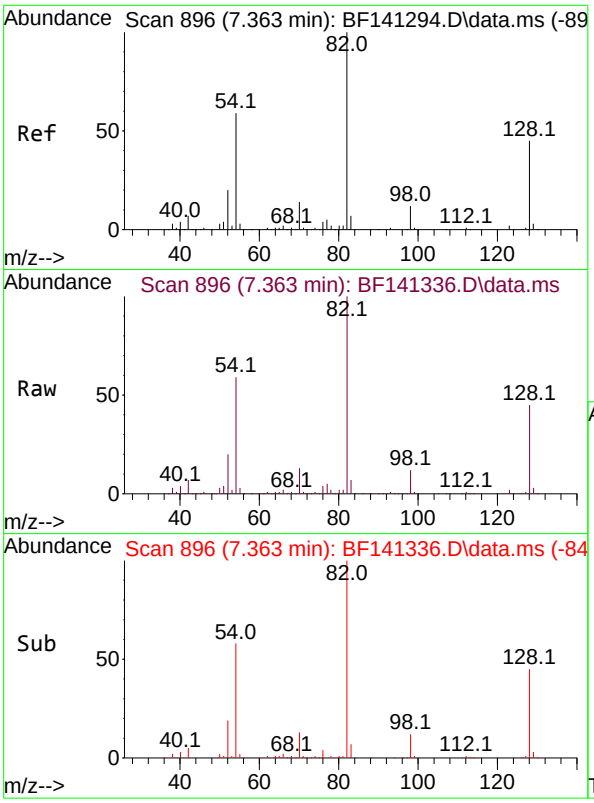


#22
Acetophenone
Concen: 35.678 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:105 Resp: 473548

Ion	Ratio	Lower	Upper
105	100		
71	8.7	6.8	10.2
51	41.1	32.6	49.0
120	21.7	17.4	26.0



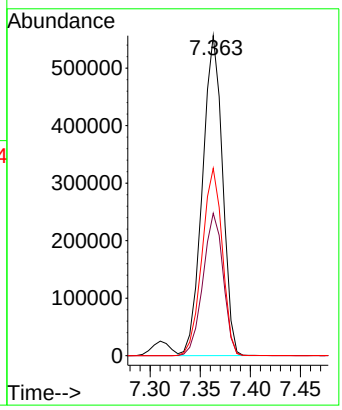


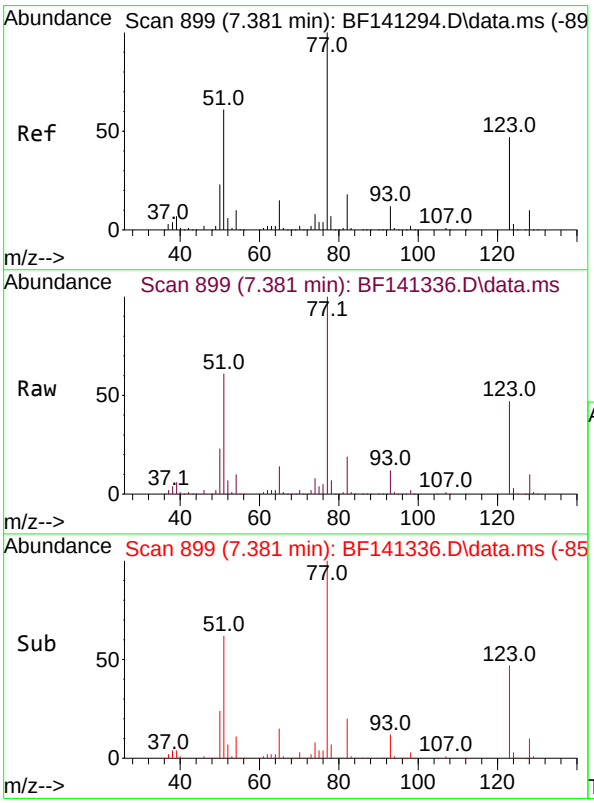
#23
Nitrobenzene-d5
Concen: 73.308 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 776494

Ion	Ratio	Lower	Upper
82	100		
128	44.5	35.7	53.5
54	58.5	47.1	70.7

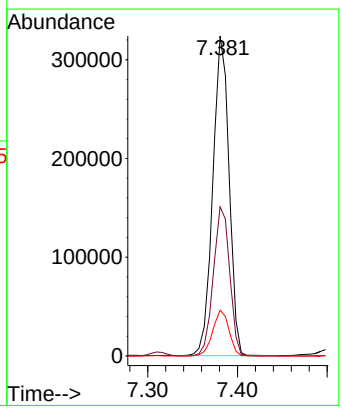


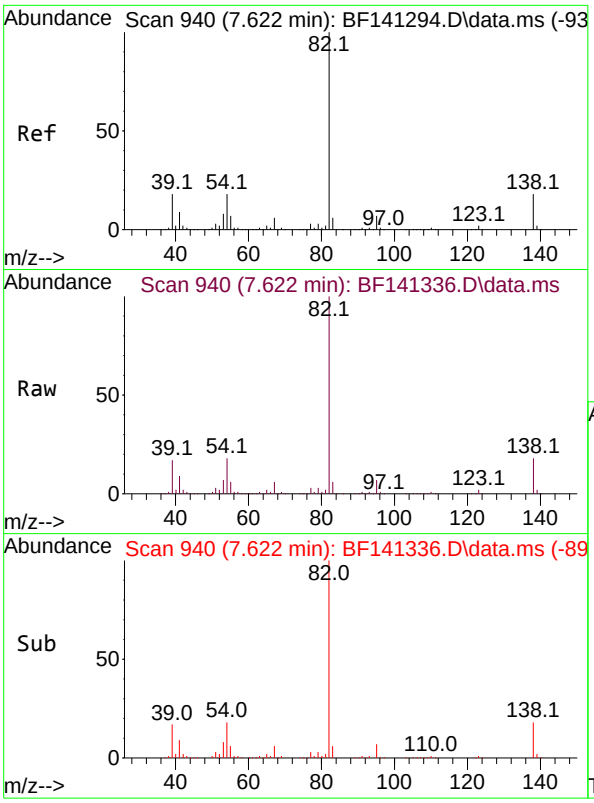


#24
Nitrobenzene
Concen: 37.116 ng
RT: 7.381 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 77 Resp: 407415

Ion	Ratio	Lower	Upper
77	100		
123	46.6	37.3	55.9
65	14.3	11.8	17.6



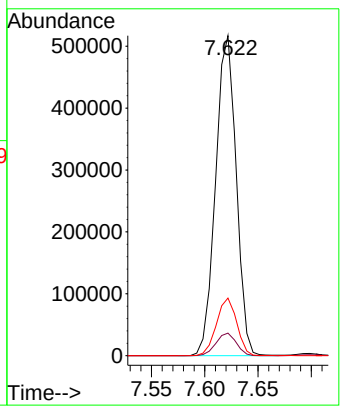


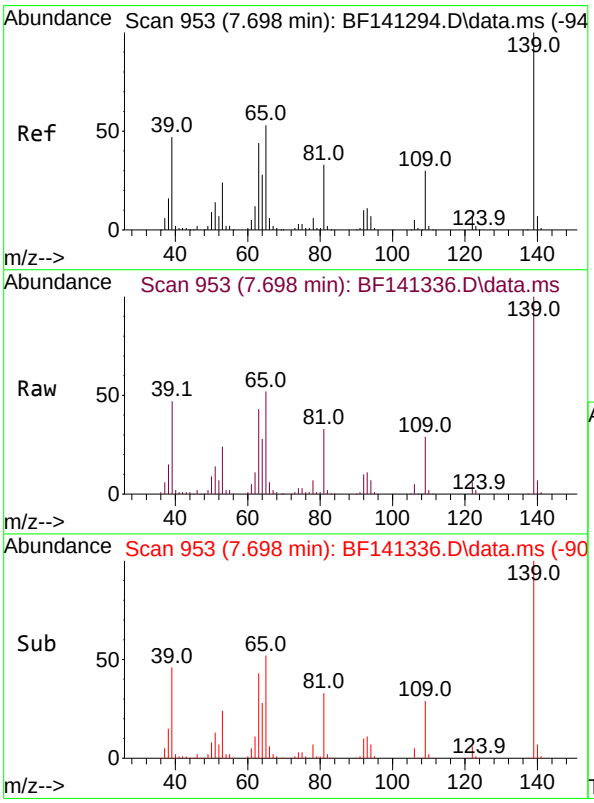
#25
Isophorone
Concen: 37.934 ng
RT: 7.622 min Scan# 94
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 694555

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.8	8.6
138	18.0	14.7	22.1

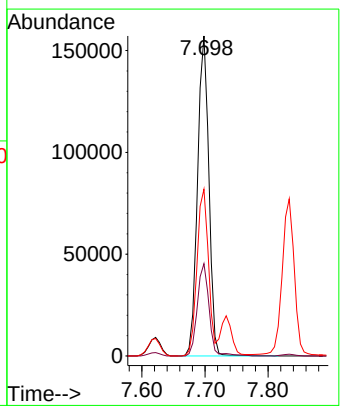


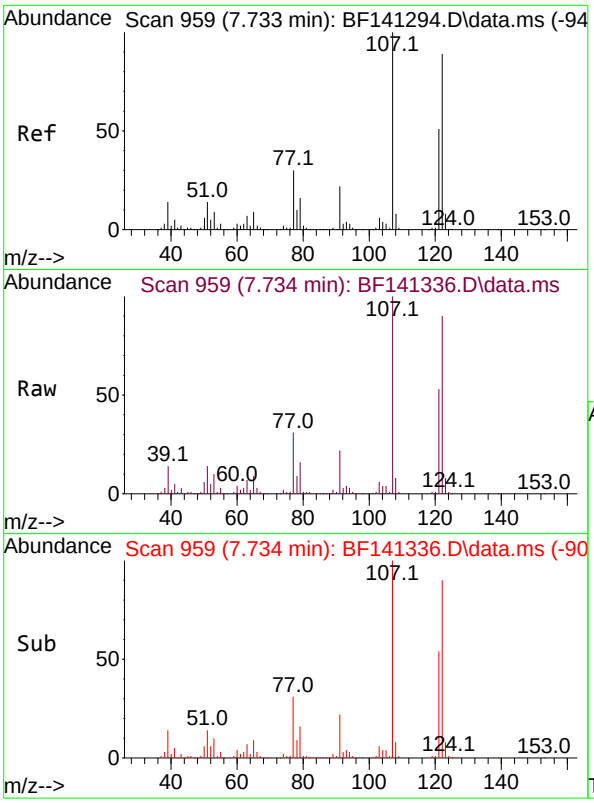


#26
2-Nitrophenol
Concen: 37.762 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:139 Resp: 195489

Ion	Ratio	Lower	Upper
139	100		
109	28.8	23.8	35.6
65	52.1	42.2	63.4



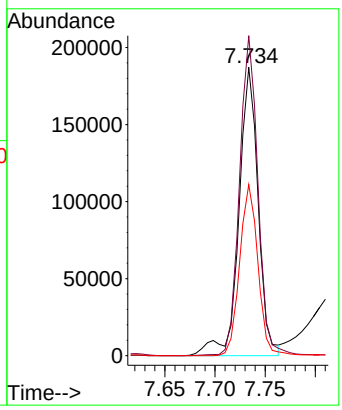


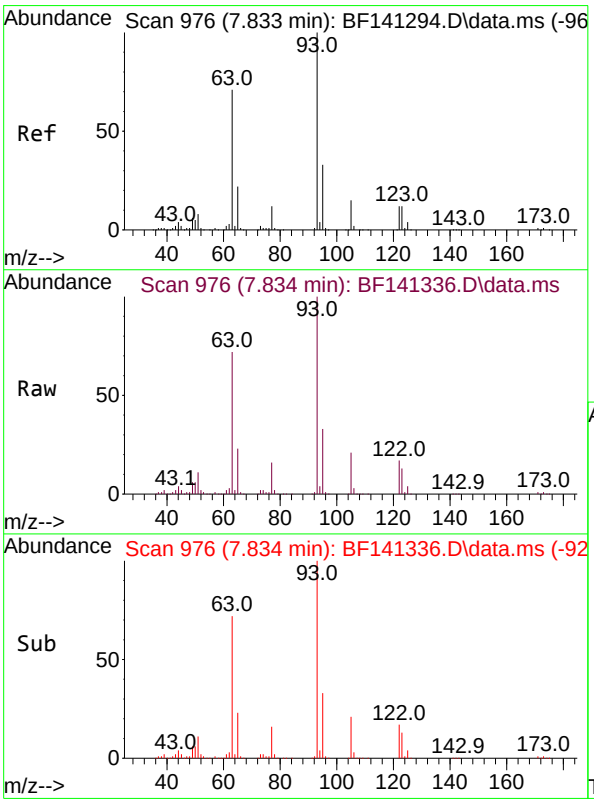
#27
2,4-Dimethylphenol
Concen: 37.999 ng
RT: 7.734 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 250385

Ion	Ratio	Lower	Upper
122	100		
107	111.0	89.9	134.9
121	59.4	46.1	69.1

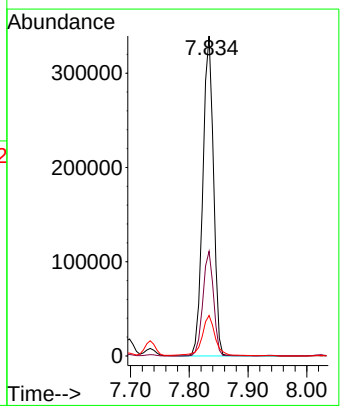


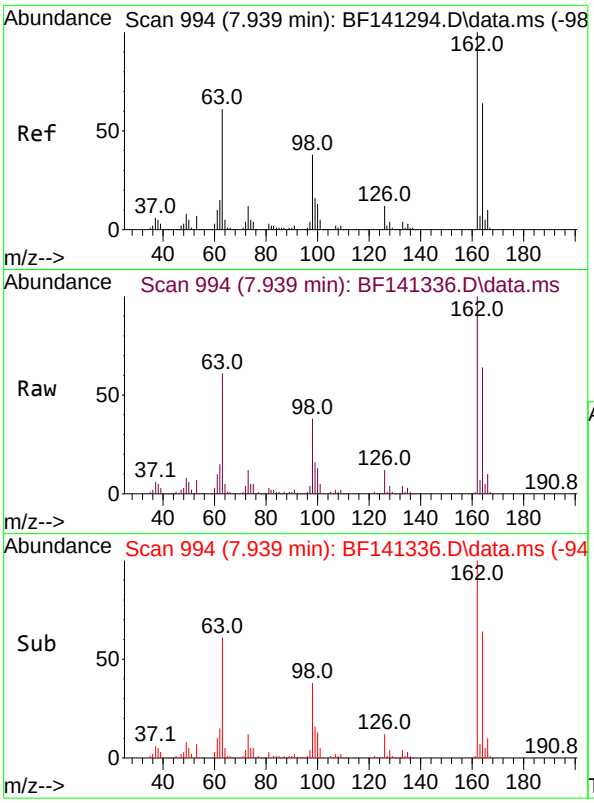


#28
bis(2-Chloroethoxy)methane
Concen: 36.955 ng
RT: 7.834 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 93 Resp: 431598

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.2
123	12.6	10.2	15.4



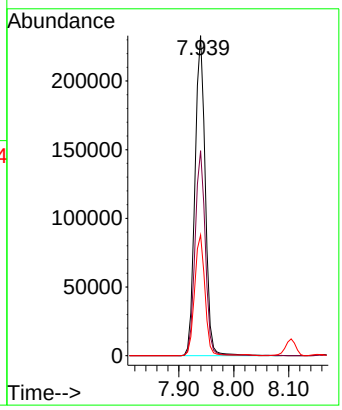


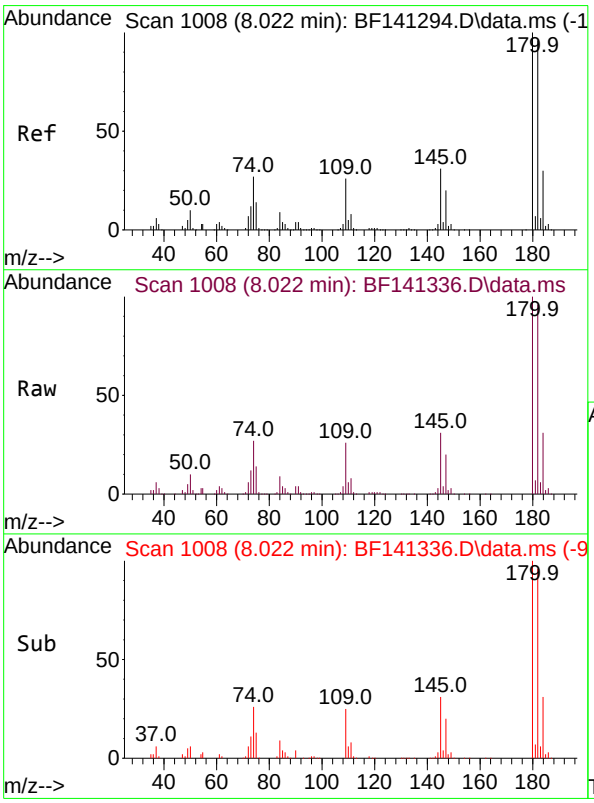
#29
2,4-Dichlorophenol
Concen: 37.608 ng
RT: 7.939 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 303375

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.2	84.2
98	37.7	18.2	58.2

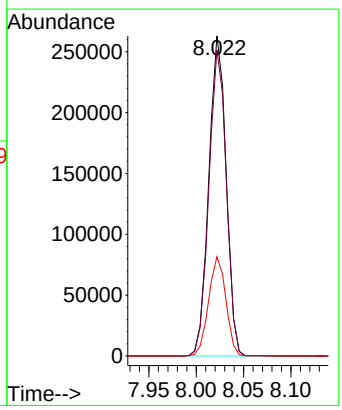


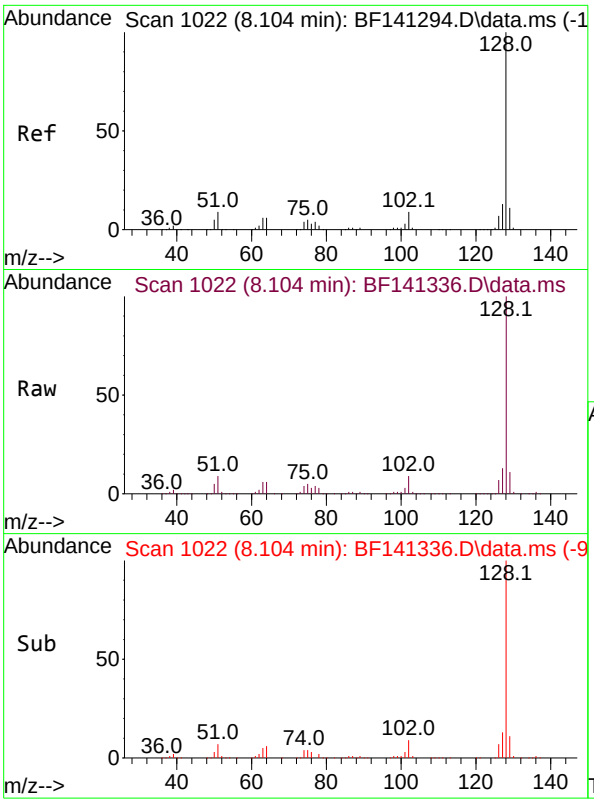


#30
1,2,4-Trichlorobenzene
Concen: 36.214 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:180 Resp: 333619

Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.4	114.6
145	31.0	24.9	37.3



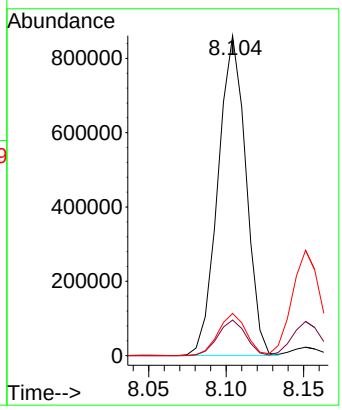


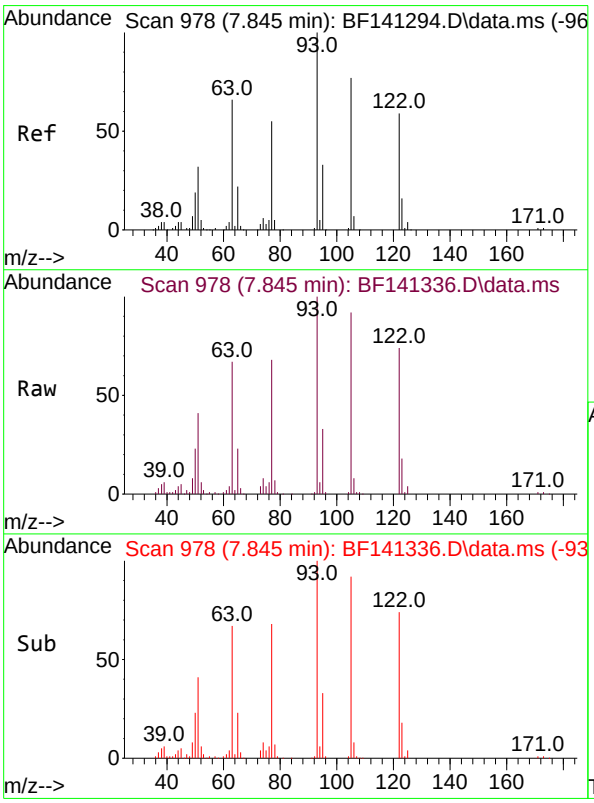
#31
Naphthalene
Concen: 36.561 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1078465

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

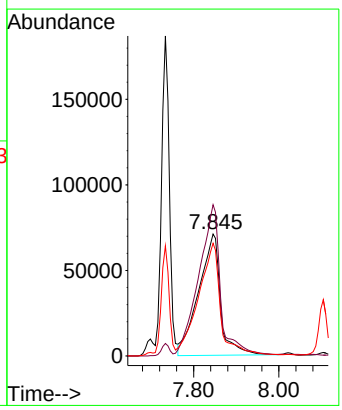


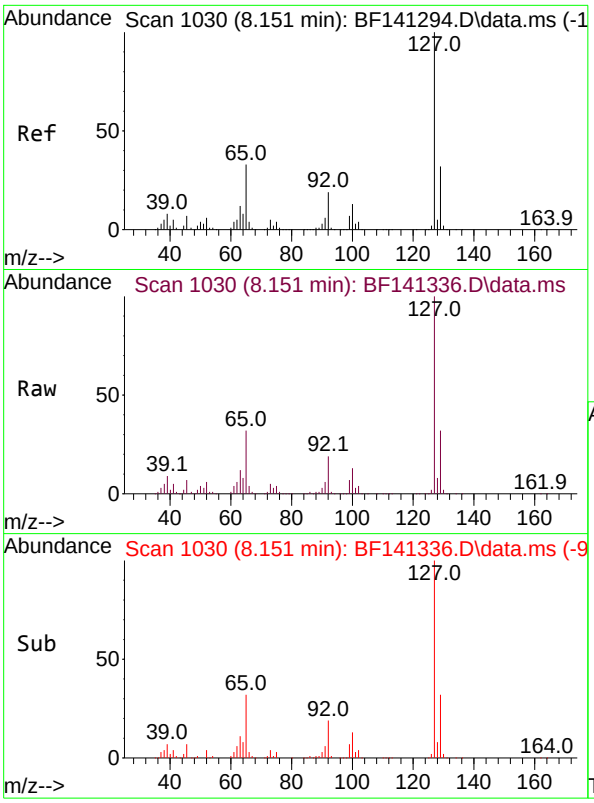


#32
Benzoic acid
Concen: 41.698 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.035 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:122 Resp: 252577

Ion	Ratio	Lower	Upper
122	100		
105	124.1	103.4	143.4
77	92.4	70.9	110.9



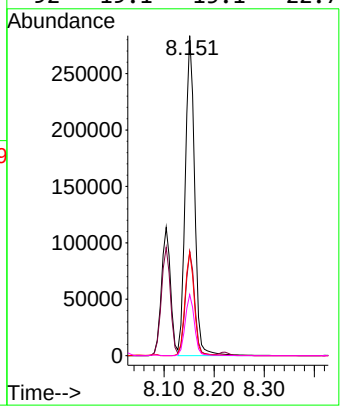


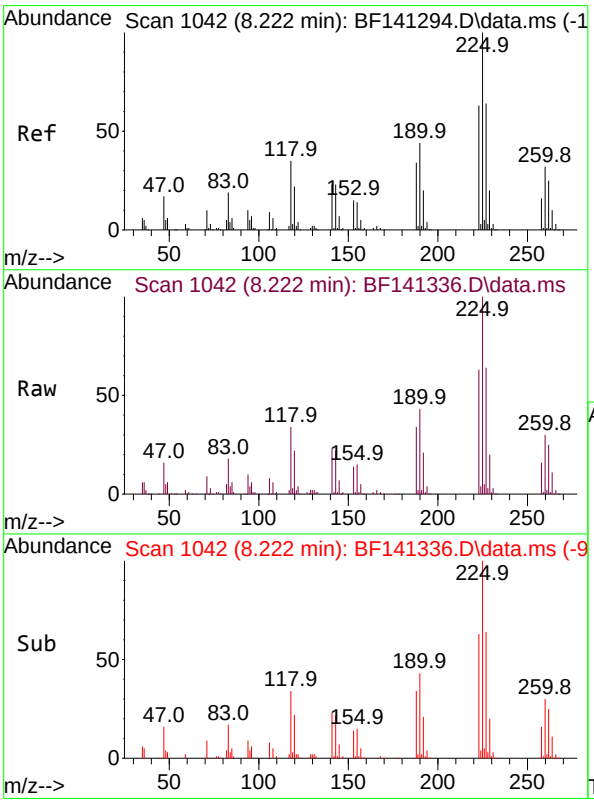
#33
4-Chloroaniline
Concen: 36.719 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 367291

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.7	38.5
65	32.4	26.4	39.6
92	19.1	15.1	22.7

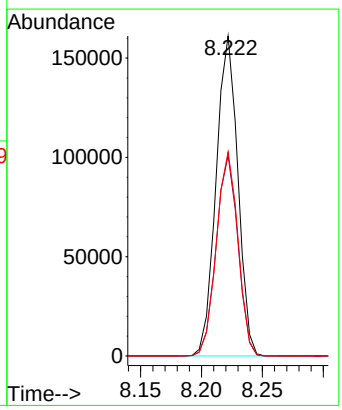


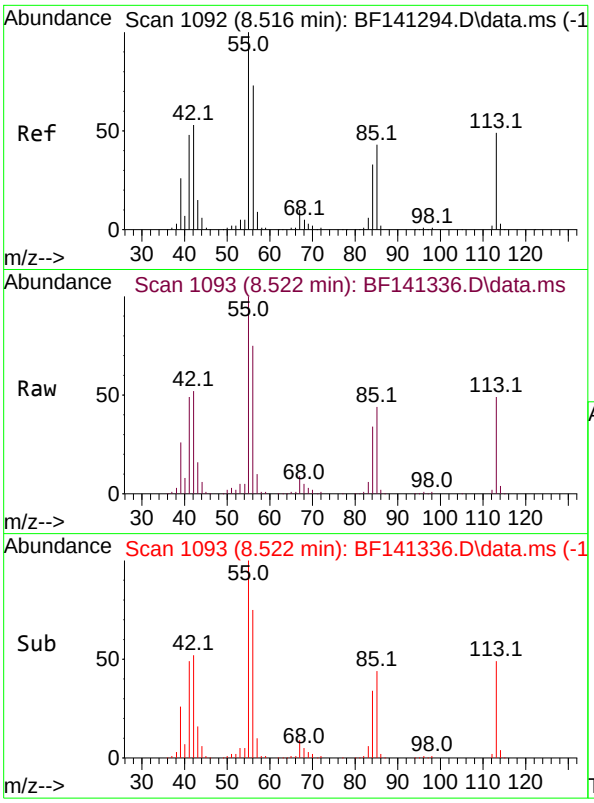


#34
Hexachlorobutadiene
Concen: 37.021 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:225 Resp: 200005

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.4	75.6
227	63.9	51.3	76.9



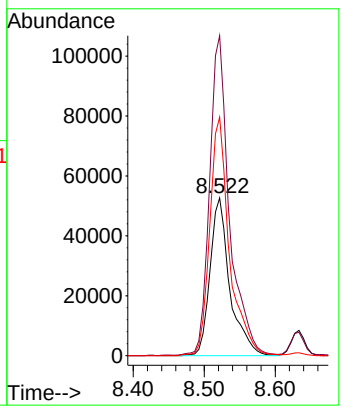


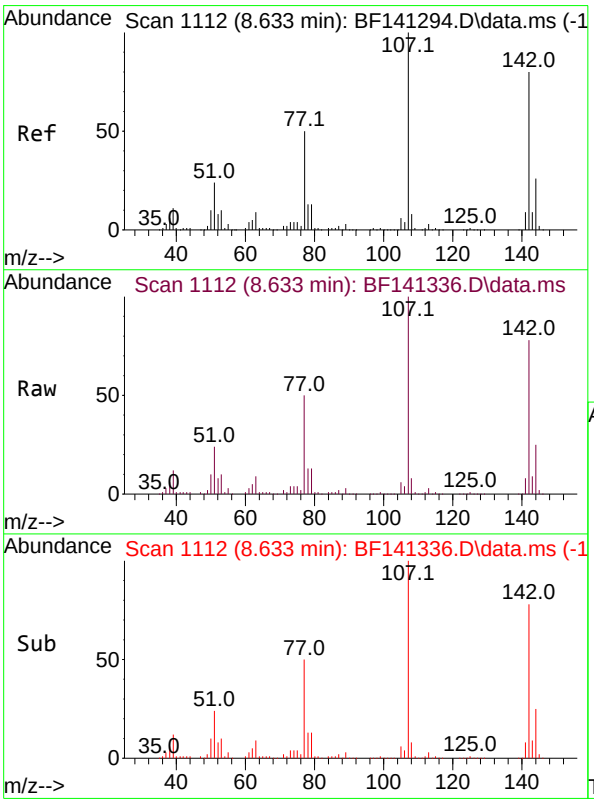
#35
Caprolactam
Concen: 38.705 ng
RT: 8.522 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 101967

Ion	Ratio	Lower	Upper
113	100		
55	202.8	182.9	222.9
56	151.1	127.9	167.9

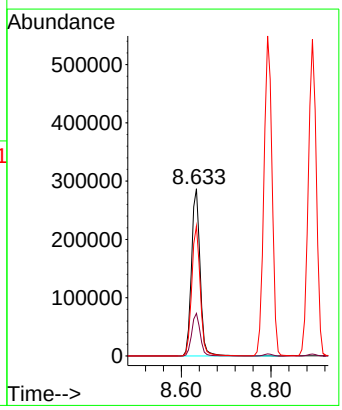


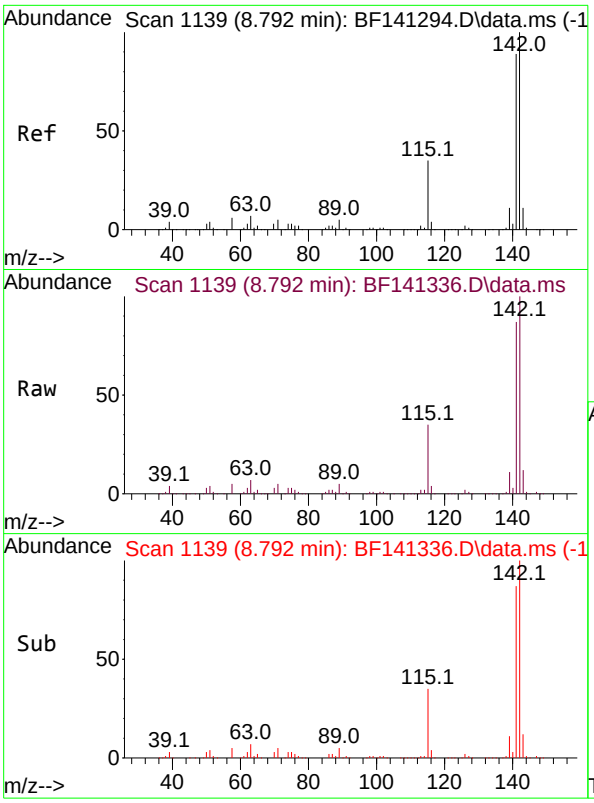


#36
4-Chloro-3-methylphenol
Concen: 43.991 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:107 Resp: 380639

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.7	31.1
142	77.7	63.8	95.8



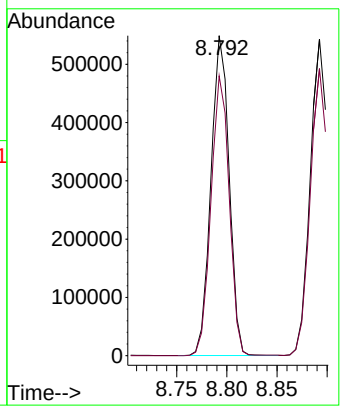


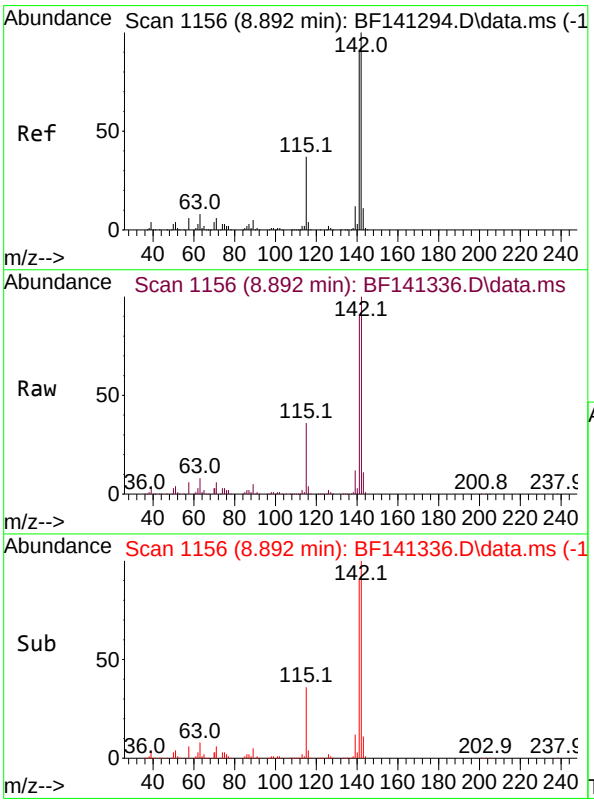
#37
2-Methylnaphthalene
Concen: 36.818 ng
RT: 8.792 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 690288

Ion	Ratio	Lower	Upper
142	100		
141	87.4	71.3	106.9

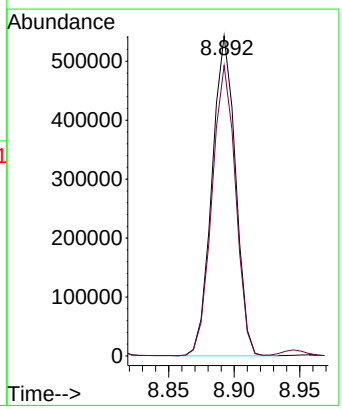


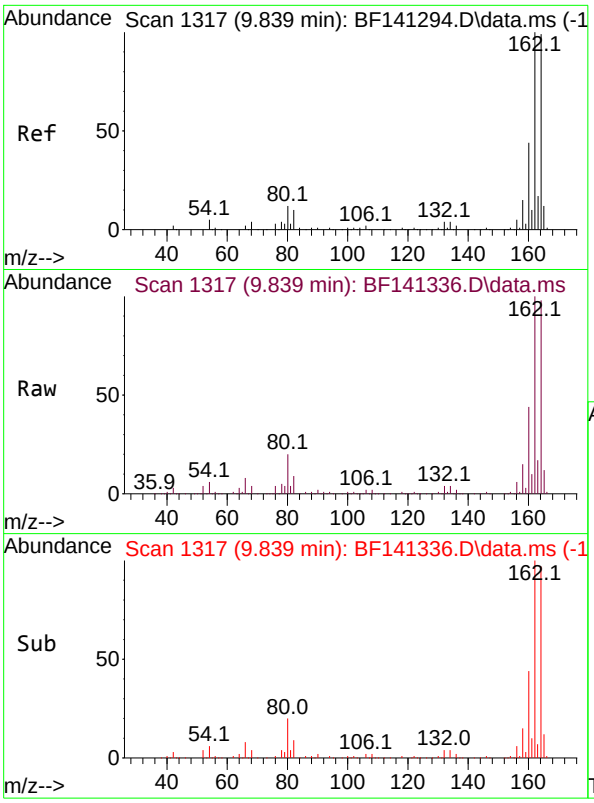


#38
1-Methylnaphthalene
Concen: 36.681 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:142 Resp: 675547

Ion	Ratio	Lower	Upper
142	100		
141	90.7	73.2	109.8



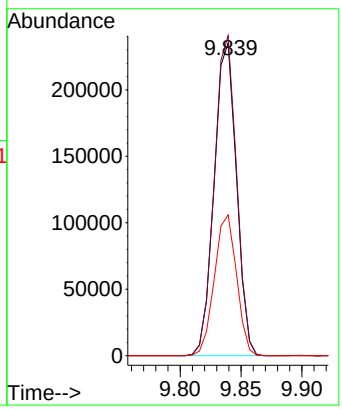


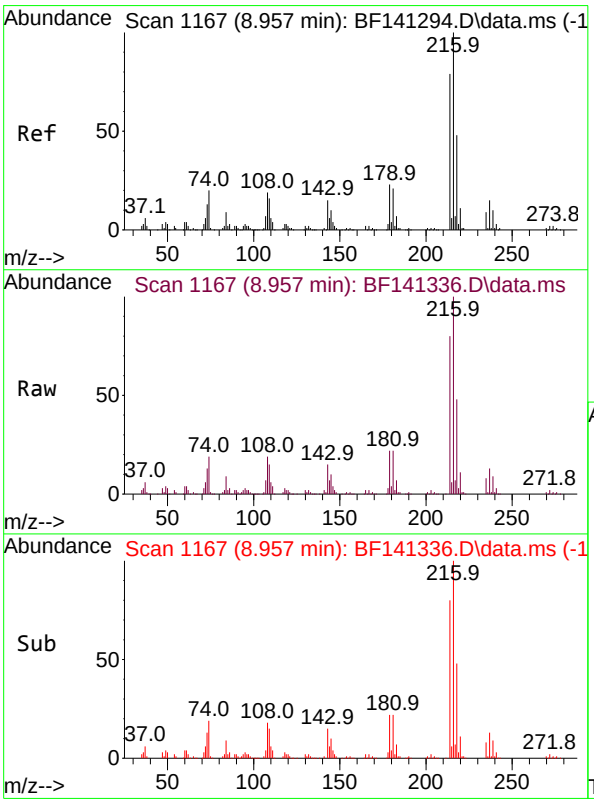
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 299701

Ion	Ratio	Lower	Upper
164	100		
162	102.4	80.6	121.0
160	45.0	35.8	53.6

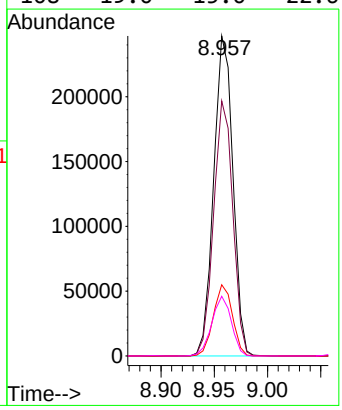


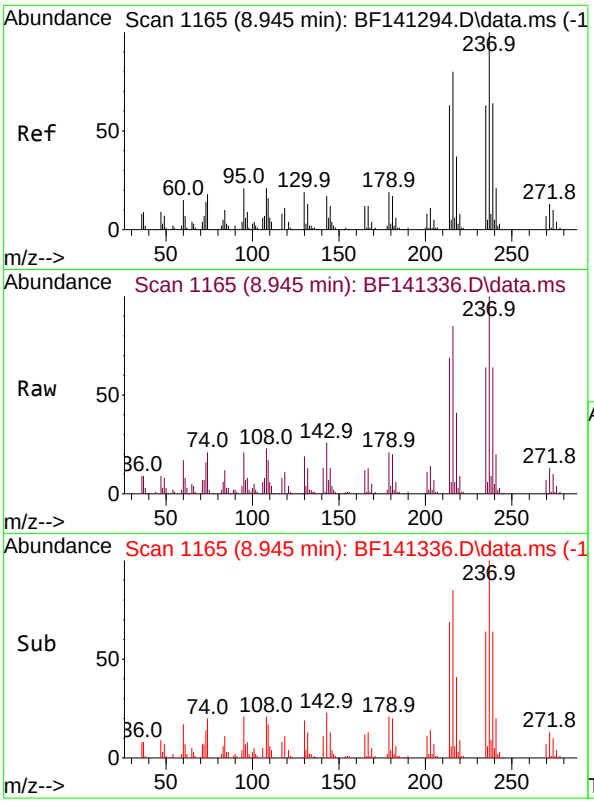


#40
1,2,4,5-Tetrachlorobenzene
Concen: 36.224 ng
RT: 8.957 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:216 Resp: 308854

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.2	94.8
179	22.0	17.8	26.8
108	19.0	15.0	22.6



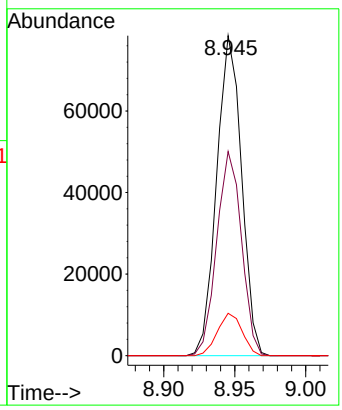


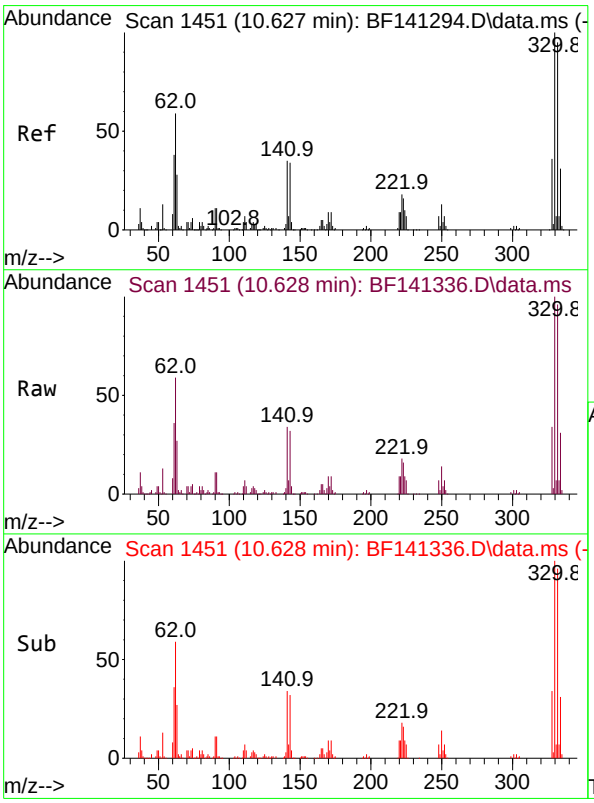
#41
Hexachlorocyclopentadiene
Concen: 37.949 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 95556

Ion	Ratio	Lower	Upper
237	100		
235	63.8	42.9	82.9
272	13.2	0.0	32.8

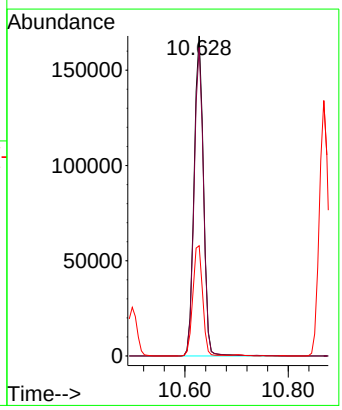


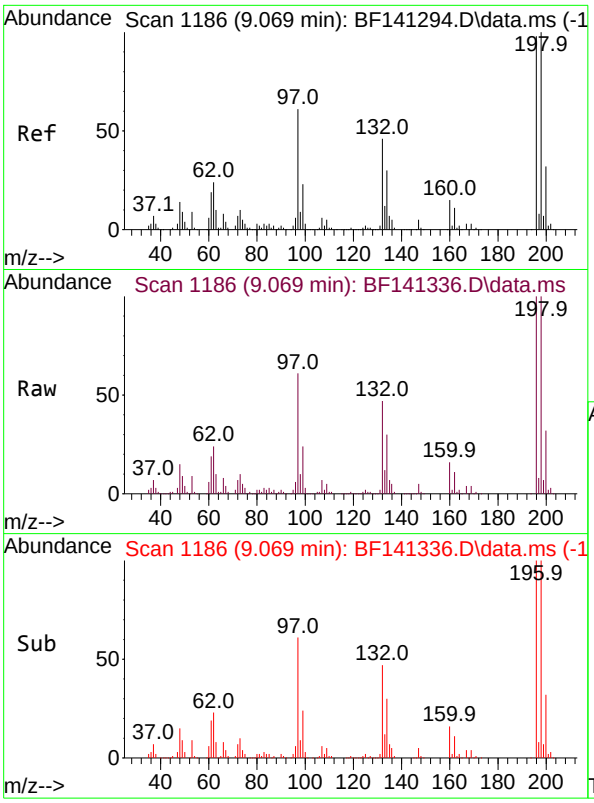


#42
2,4,6-Tribromophenol
Concen: 77.122 ng
RT: 10.628 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:330 Resp: 211897

Ion	Ratio	Lower	Upper
330	100		
332	95.8	76.1	114.1
141	35.9	28.8	43.2



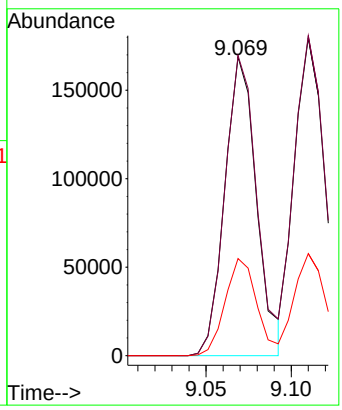


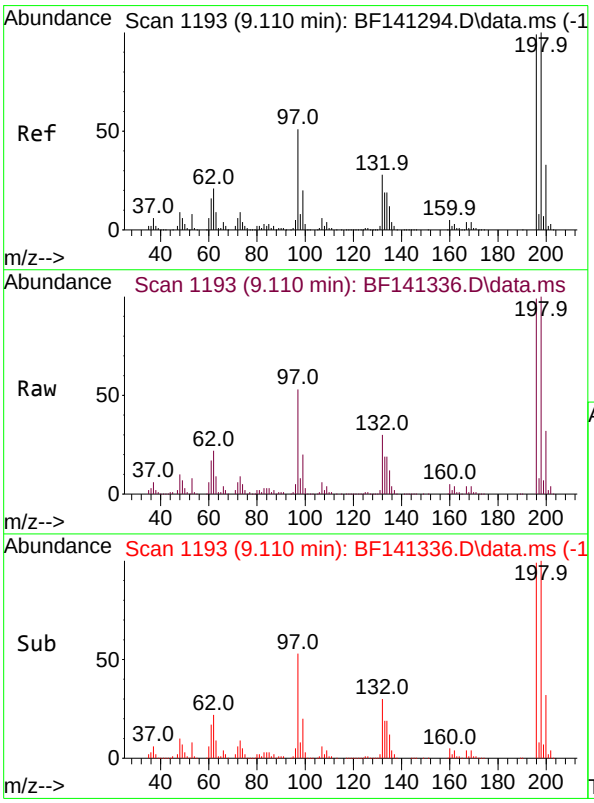
#43
2,4,6-Trichlorophenol
Concen: 39.199 ng
RT: 9.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 218757

Ion	Ratio	Lower	Upper
196	100		
198	100.5	81.8	122.6
200	32.5	26.3	39.5

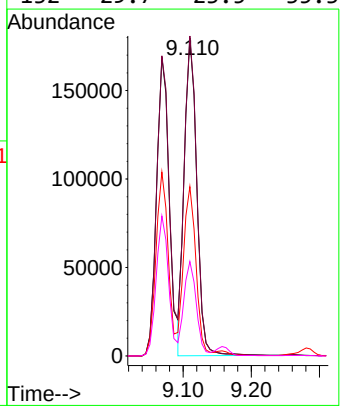


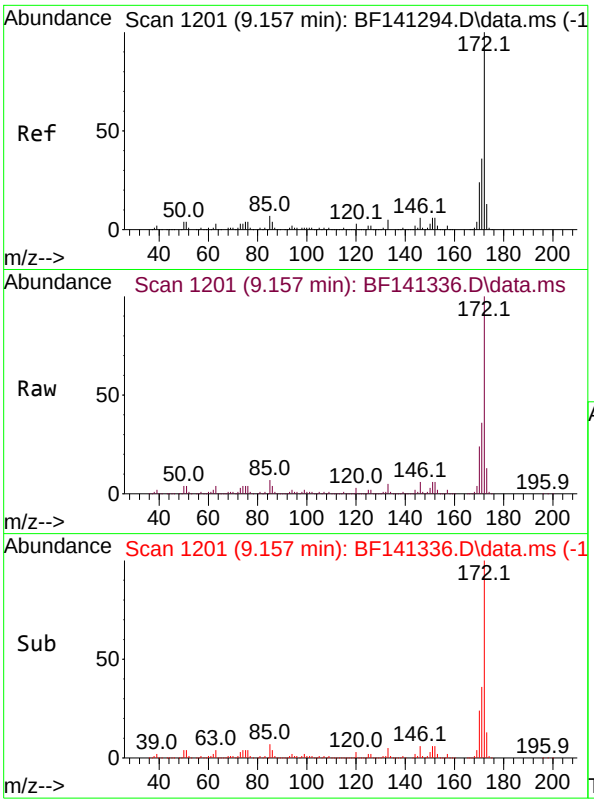


#44
2,4,5-Trichlorophenol
Concen: 37.608 ng
RT: 9.110 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:196 Resp: 228427

Ion	Ratio	Lower	Upper
196	100		
198	100.7	80.5	120.7
97	53.3	42.8	64.2
132	29.7	23.5	35.3



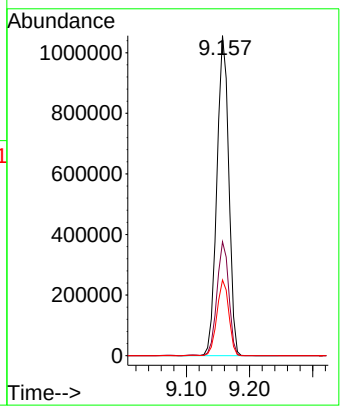


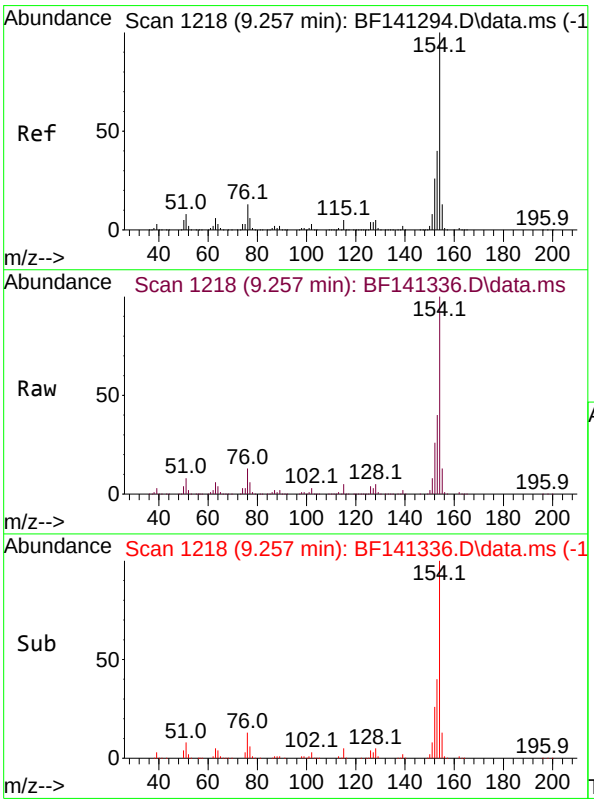
#45
2-Fluorobiphenyl
Concen: 70.690 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1376427

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.7	19.0	28.6

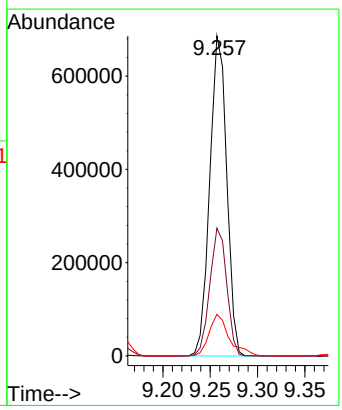


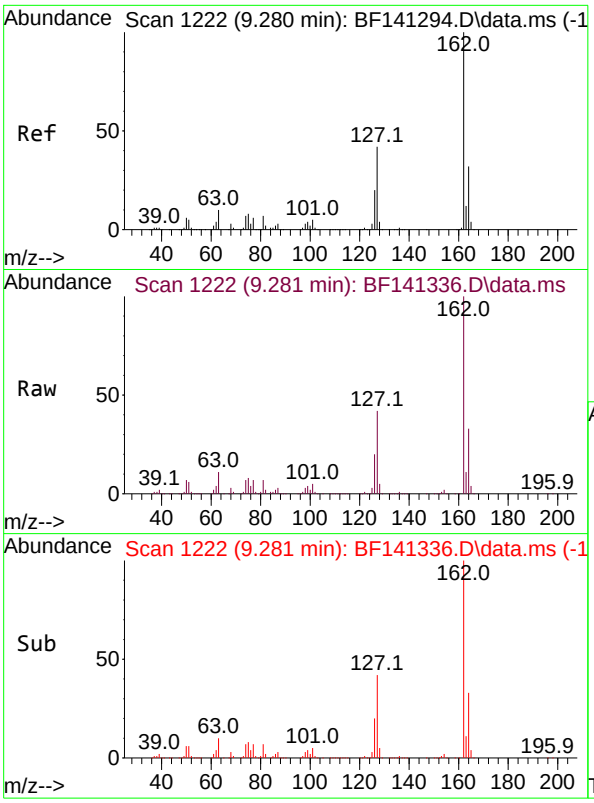


#46
1,1'-Biphenyl
Concen: 36.585 ng
RT: 9.257 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:154 Resp: 855111

Ion	Ratio	Lower	Upper
154	100		
153	39.9	20.0	60.0
76	13.0	0.0	32.8



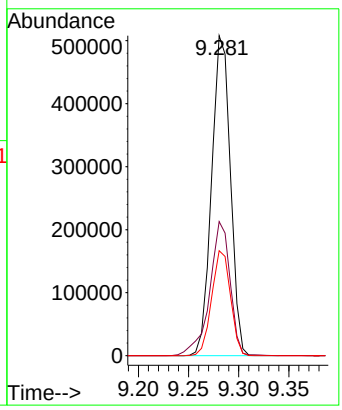


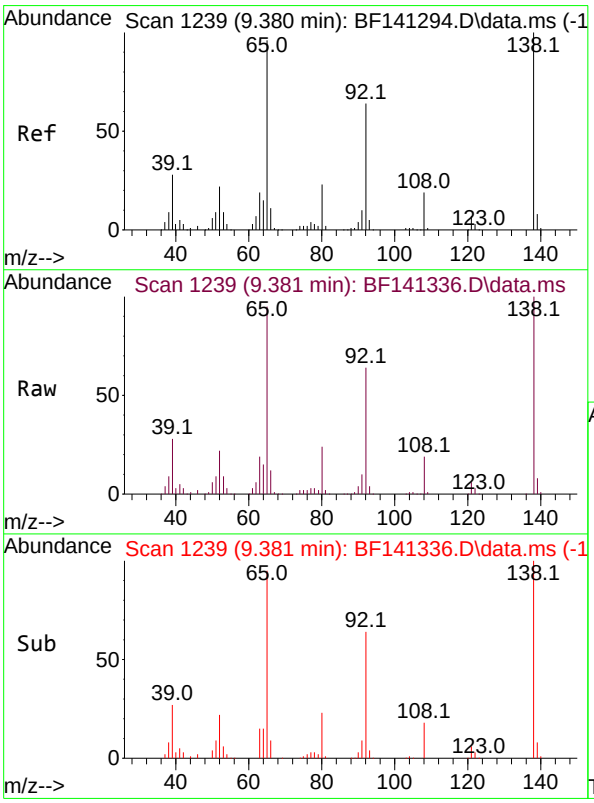
#47
2-Chloronaphthalene
Concen: 36.251 ng
RT: 9.281 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 660426

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.7	50.5
164	32.8	25.9	38.9

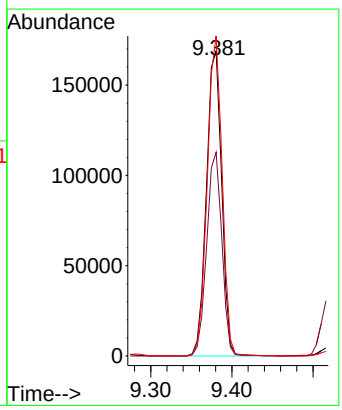


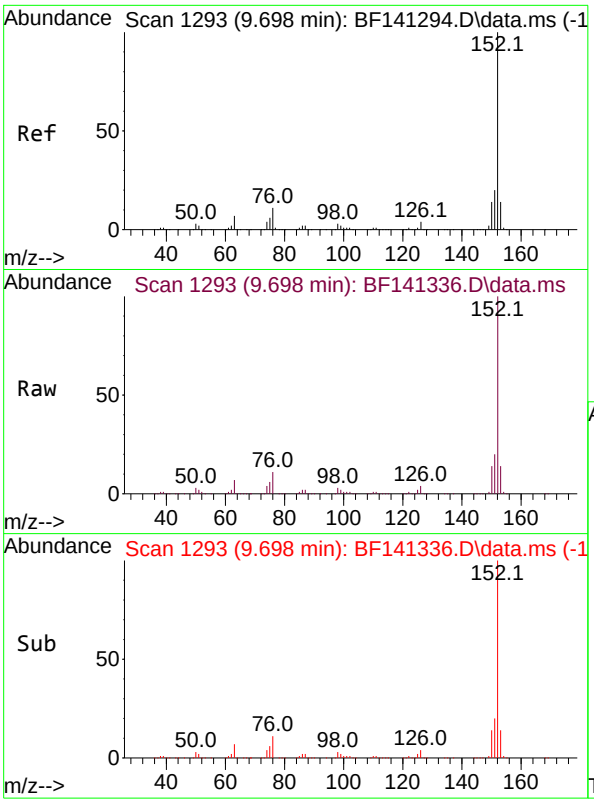


#48
2-Nitroaniline
Concen: 38.330 ng
RT: 9.381 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 65 Resp: 219643

Ion	Ratio	Lower	Upper
65	100		
92	66.8	53.3	79.9
138	104.9	83.6	125.4



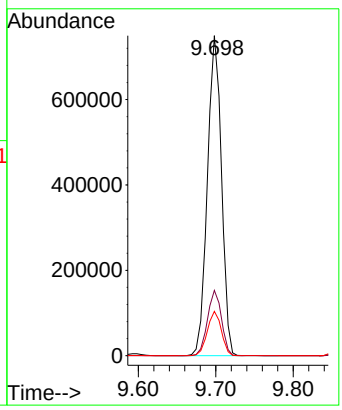


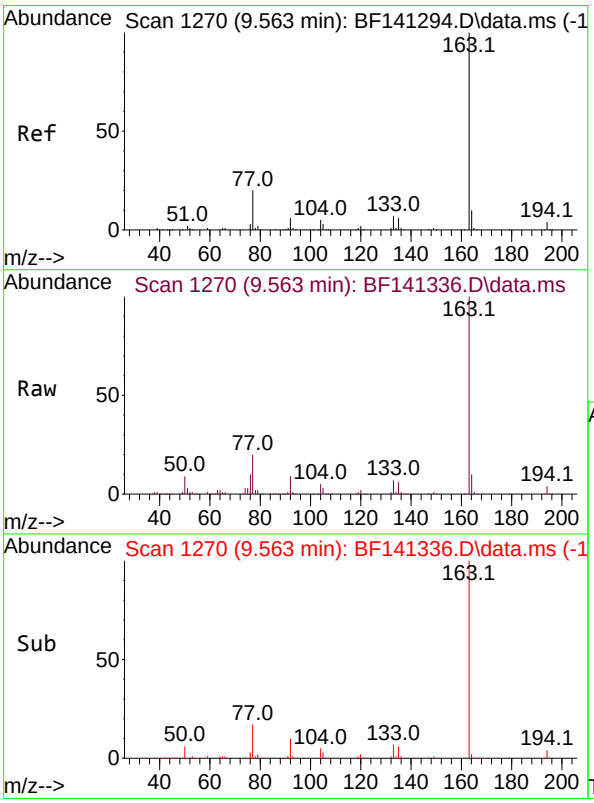
#49
Acenaphthylene
Concen: 37.073 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 945423

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.2
153	13.9	11.0	16.6

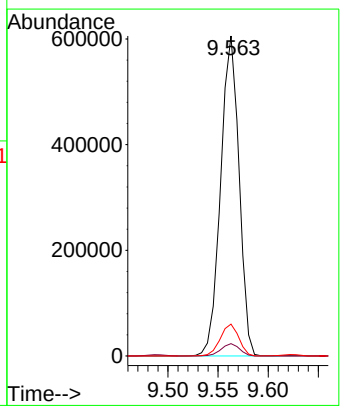


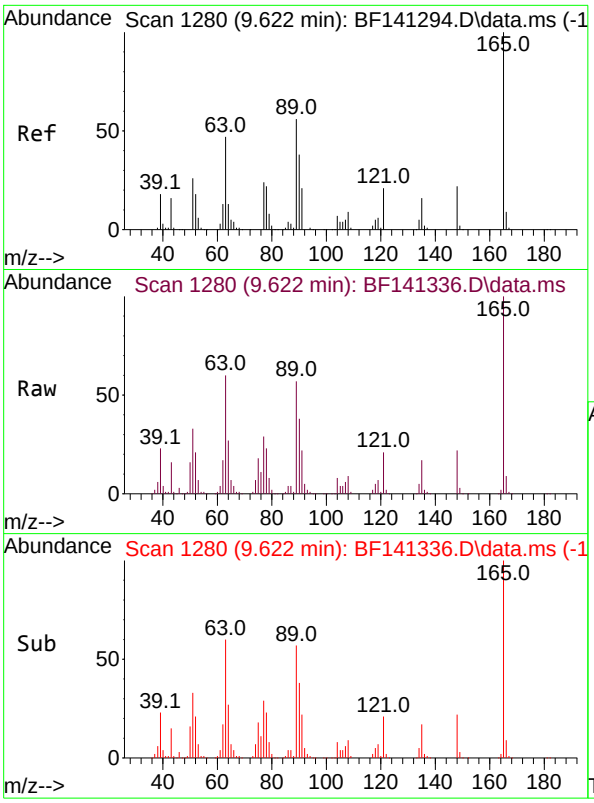


#50
Dimethylphthalate
Concen: 38.200 ng
RT: 9.563 min Scan# 1270
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:163 Resp: 773243

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	9.9	8.0	12.0



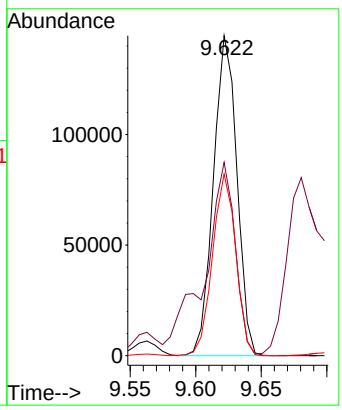


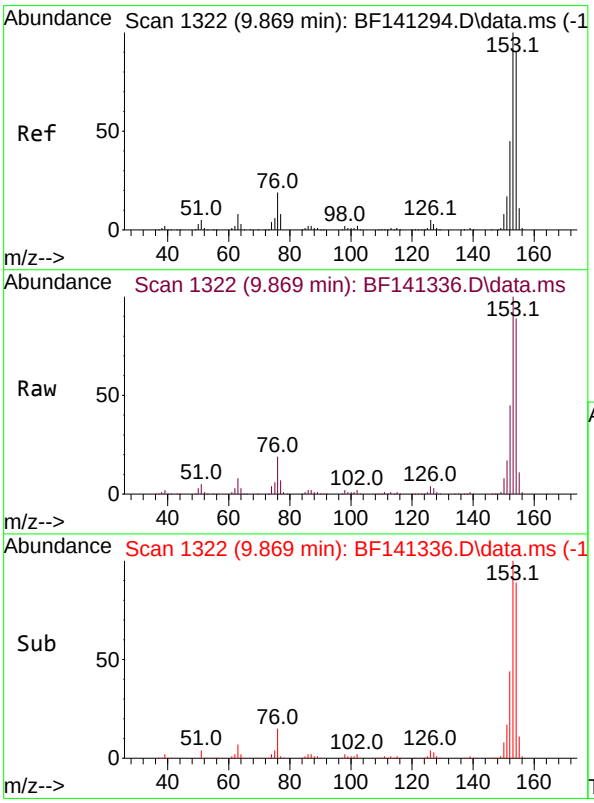
#51
2,6-Dinitrotoluene
Concen: 38.268 ng
RT: 9.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 179857

Ion	Ratio	Lower	Upper
165	100		
63	60.4	48.1	72.1
89	56.7	44.9	67.3

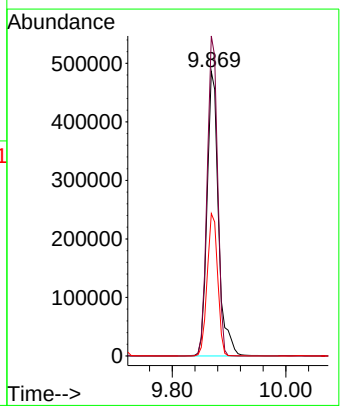


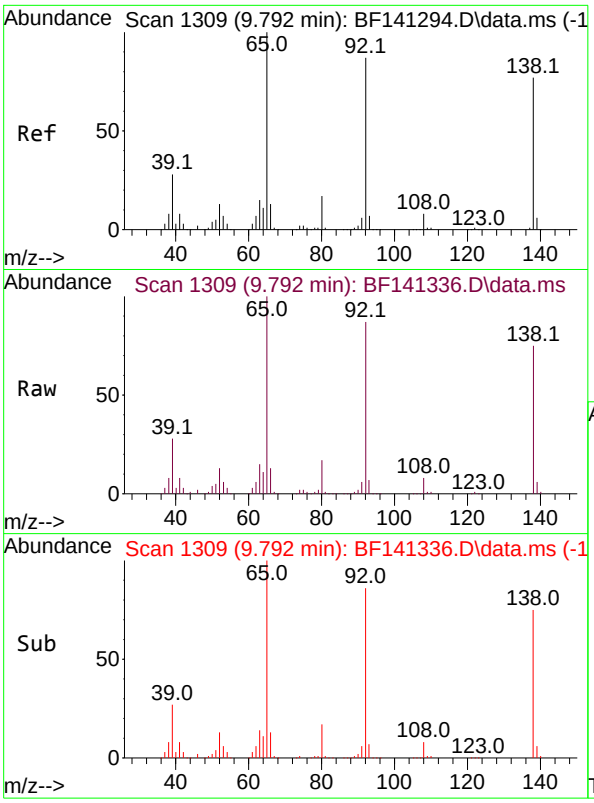


#52
Acenaphthene
Concen: 37.066 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:154 Resp: 675302

Ion	Ratio	Lower	Upper
154	100		
153	112.5	89.0	133.4
152	50.1	40.2	60.4



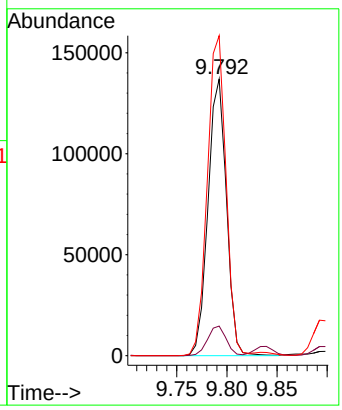


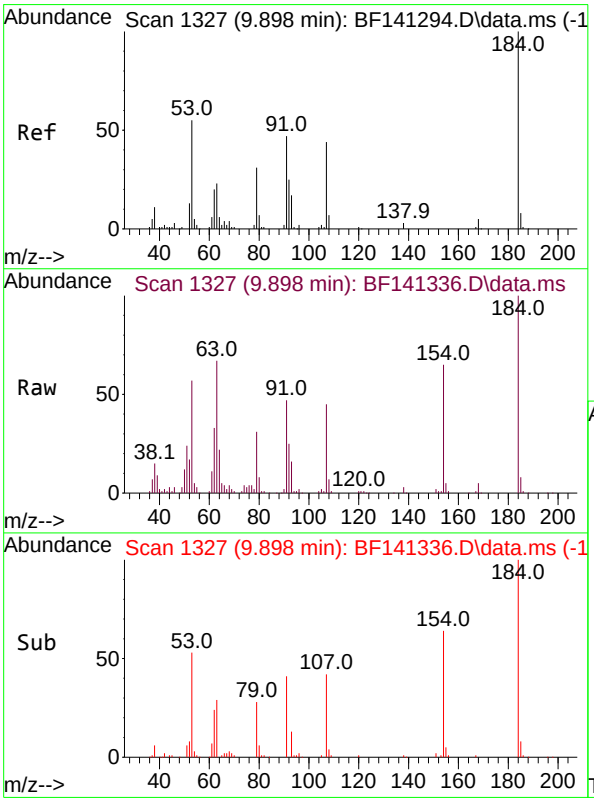
#53
3-Nitroaniline
Concen: 37.936 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 174746

Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.6	12.8
92	115.7	91.0	136.6

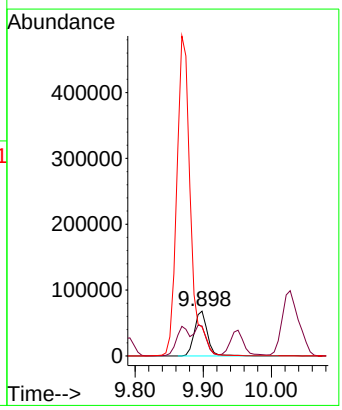


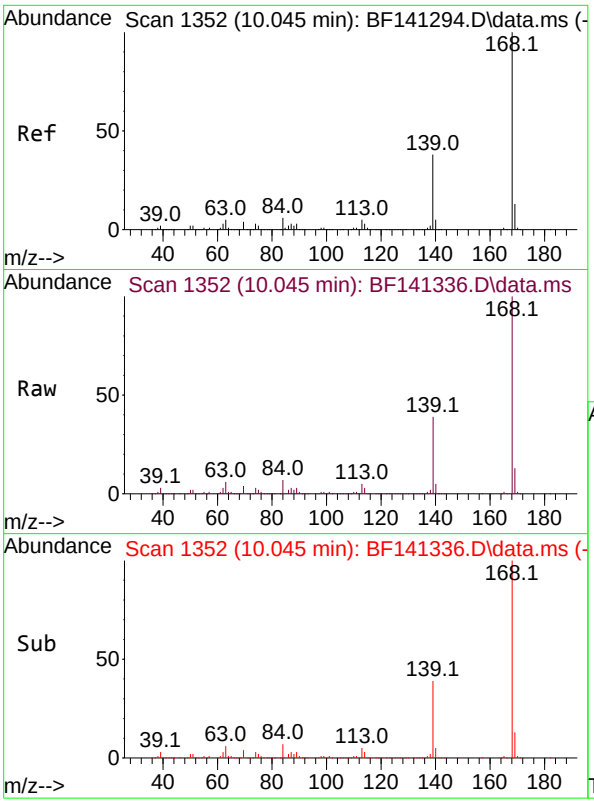


#54
2,4-Dinitrophenol
Concen: 41.270 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:184 Resp: 90166

Ion	Ratio	Lower	Upper
184	100		
63	66.5	54.1	81.1
154	64.7	50.7	76.1



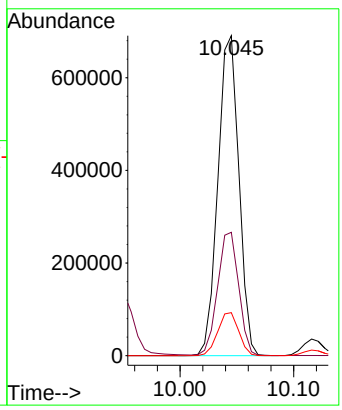


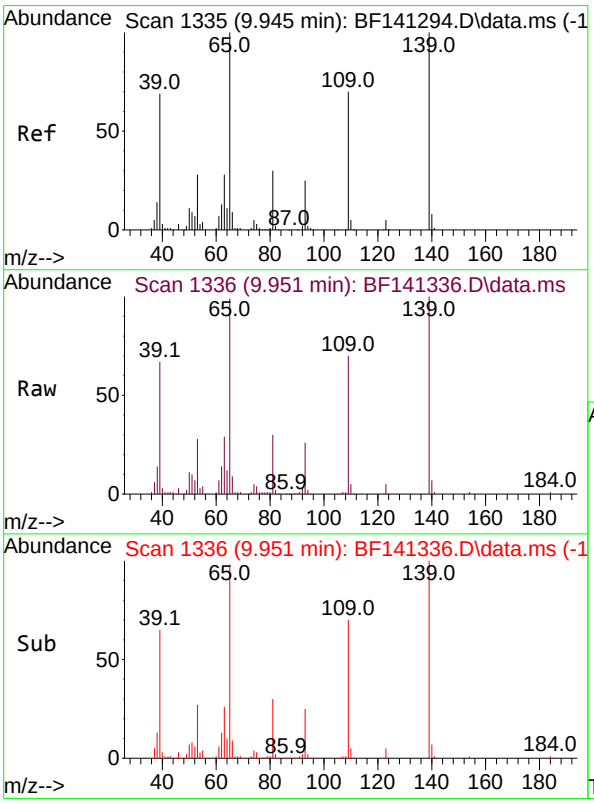
#55
Dibenzofuran
Concen: 36.395 ng
RT: 10.045 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 887550

Ion	Ratio	Lower	Upper
168	100		
139	38.5	30.6	46.0
169	13.4	10.8	16.2

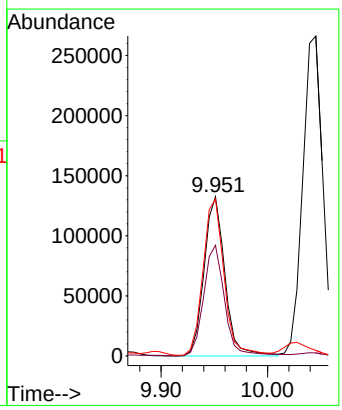


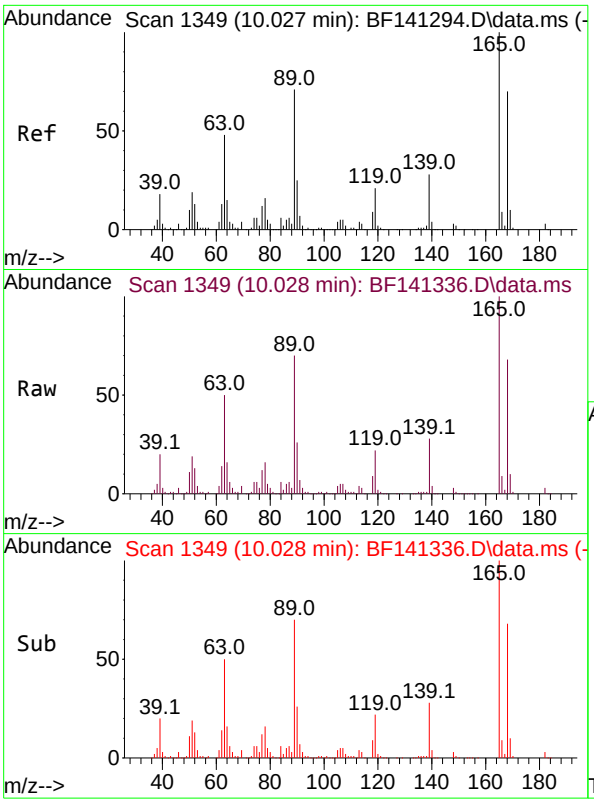


#56
4-Nitrophenol
Concen: 53.378 ng
RT: 9.951 min Scan# 1336
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:139 Resp: 179822

Ion	Ratio	Lower	Upper
139	100		
109	69.6	50.2	90.2
65	98.6	80.6	120.6



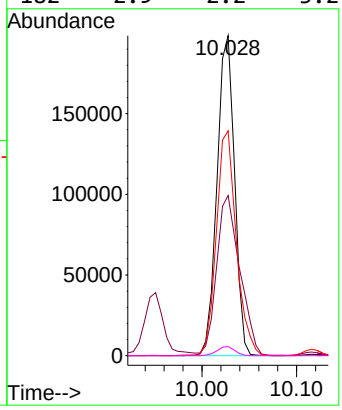


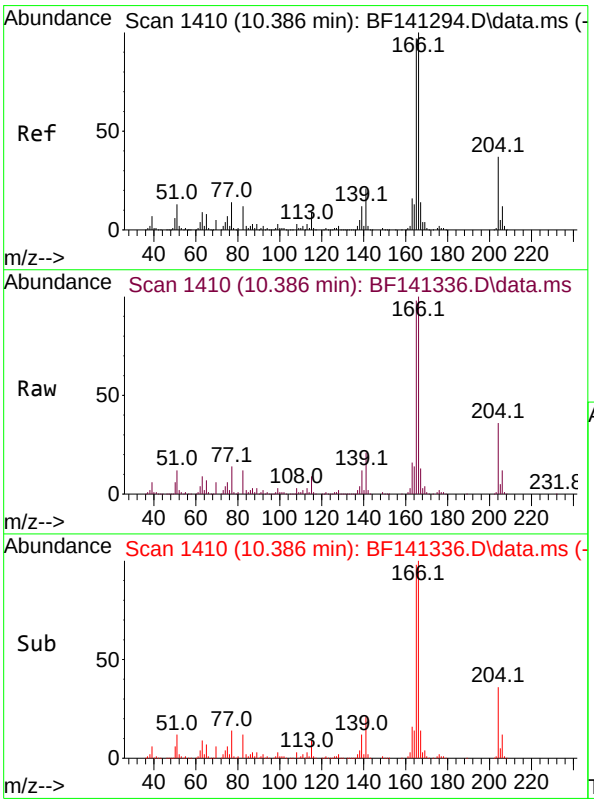
#57
2,4-Dinitrotoluene
Concen: 42.014 ng
RT: 10.028 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 255655

Ion	Ratio	Lower	Upper
165	100		
63	50.0	39.2	58.8
89	70.2	56.9	85.3
182	2.9	2.2	3.2

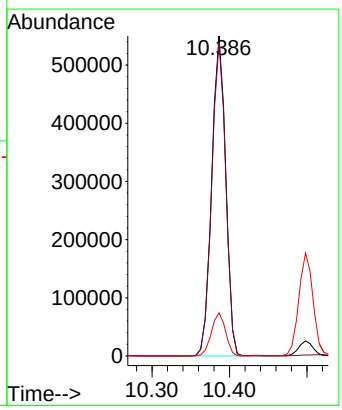


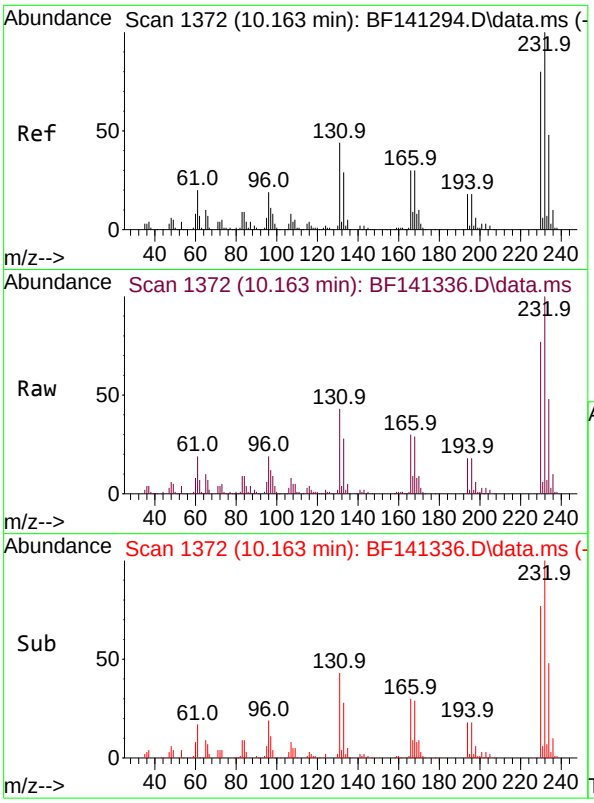


#58
Fluorene
Concen: 36.485 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:166 Resp: 690153

Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.5	116.3
167	13.5	10.9	16.3



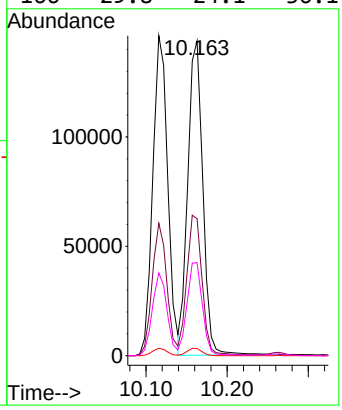


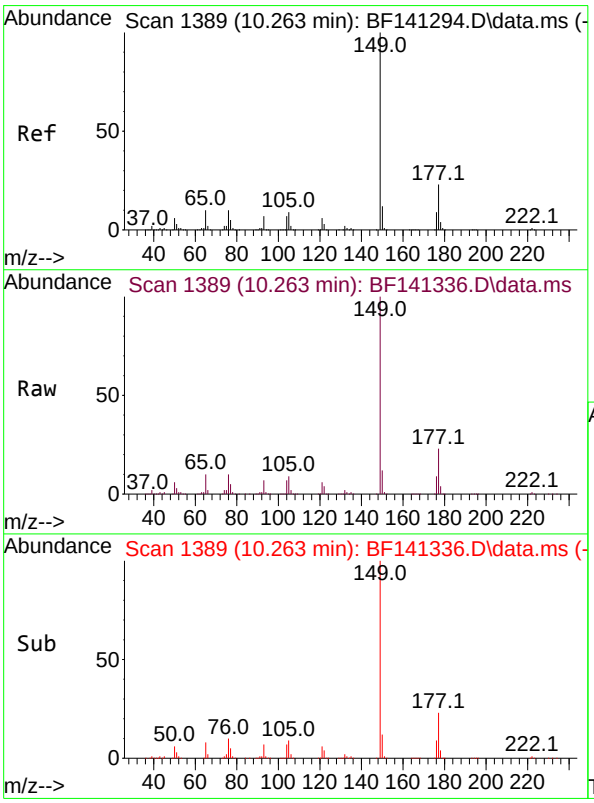
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.903 ng
RT: 10.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 185895

Ion	Ratio	Lower	Upper
232	100		
131	45.5	36.4	54.6
130	2.3	1.9	2.9
166	29.8	24.1	36.1

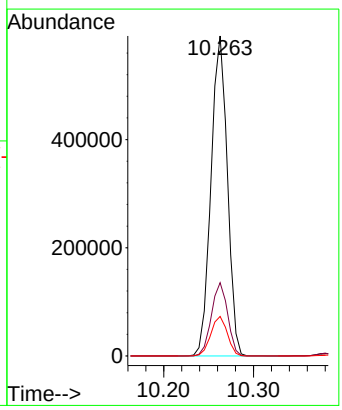


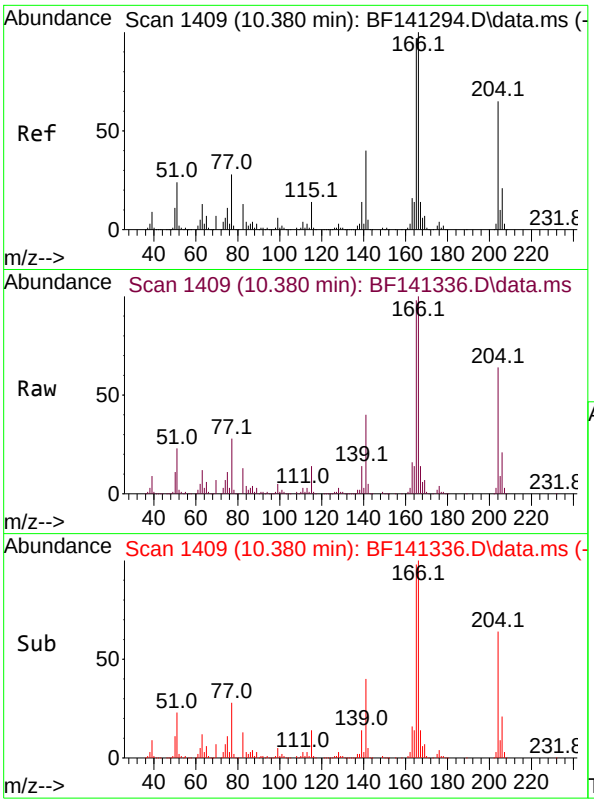


#60
Diethylphthalate
Concen: 38.140 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:149 Resp: 748552

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.5	27.7
150	12.4	10.0	15.0



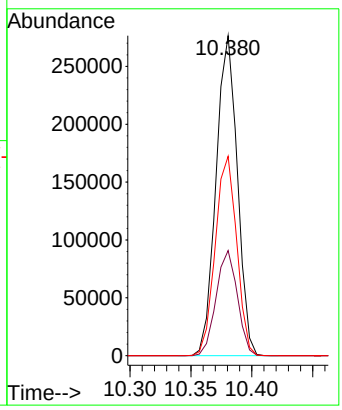


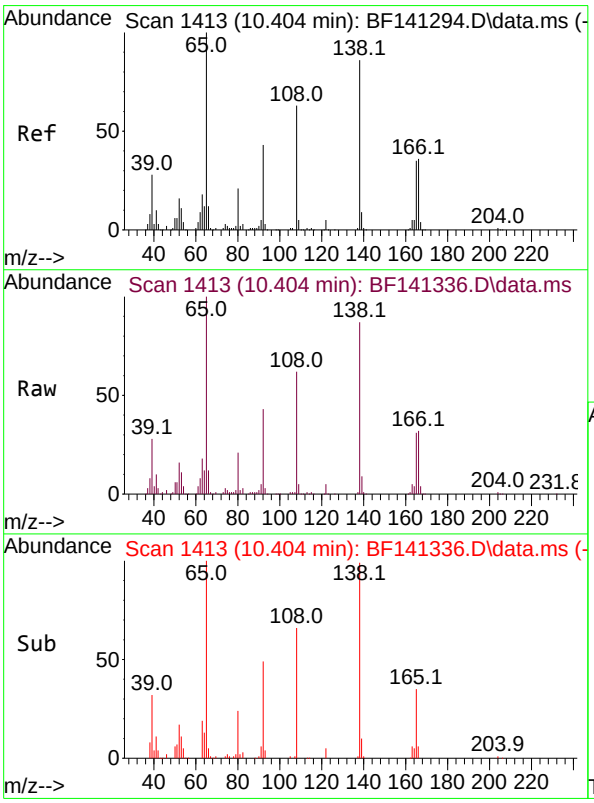
#61
4-Chlorophenyl-phenylether
Concen: 36.458 ng
RT: 10.380 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 336871

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.9	38.9
141	62.3	49.5	74.3

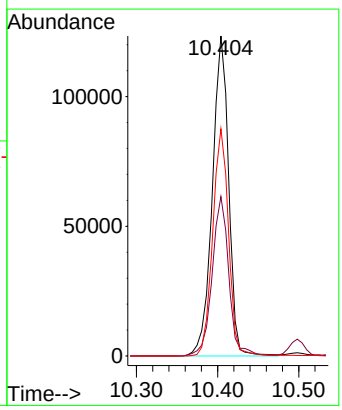


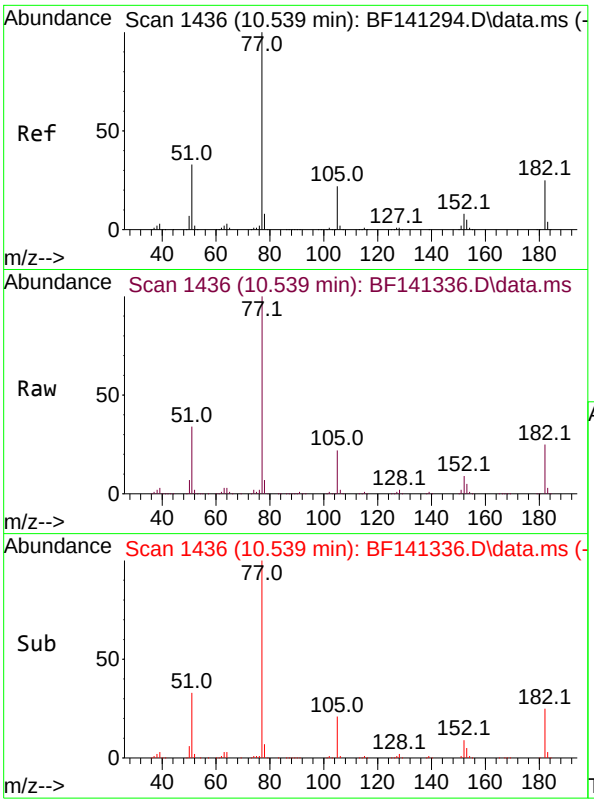


#62
4-Nitroaniline
Concen: 38.063 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:138 Resp: 172379

Ion	Ratio	Lower	Upper
138	100		
92	49.8	30.1	70.1
108	71.0	53.1	93.1



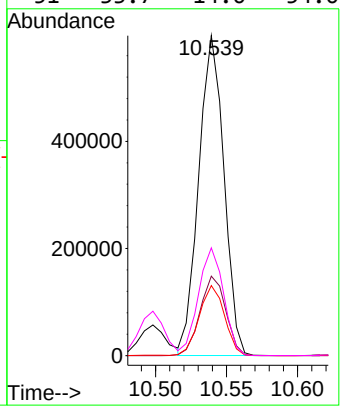


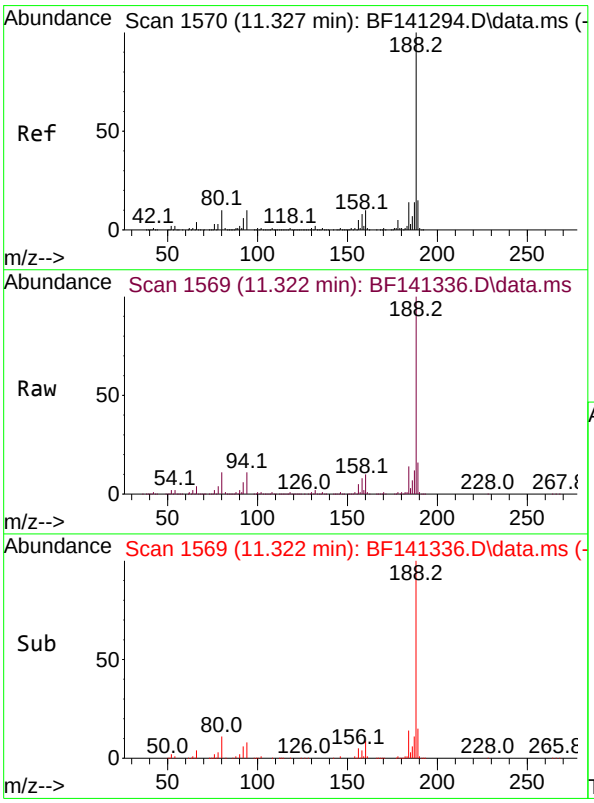
#63
Azobenzene
Concen: 37.573 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 738145

Ion	Ratio	Lower	Upper
77	100		
182	24.8	5.1	45.1
105	21.9	1.8	41.8
51	33.7	14.0	54.0

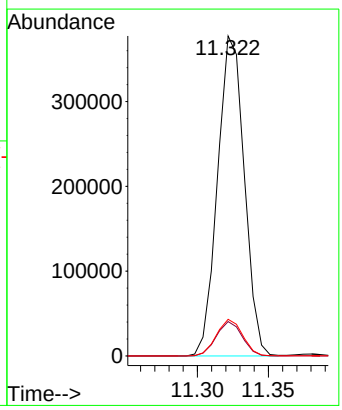


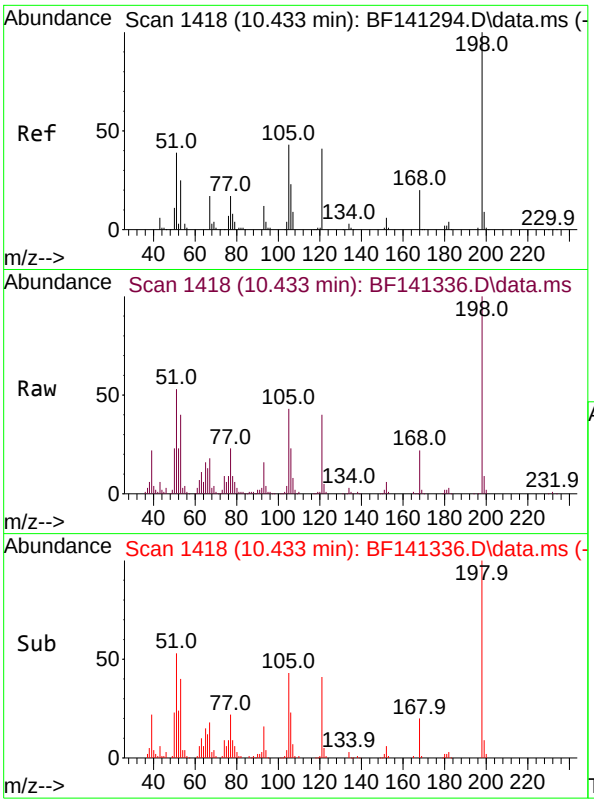


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:188 Resp: 493954

Ion	Ratio	Lower	Upper
188	100		
94	10.7	7.8	11.6
80	11.5	8.2	12.4



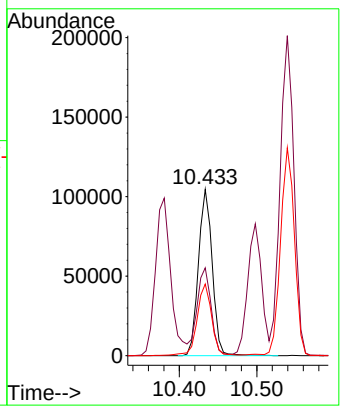


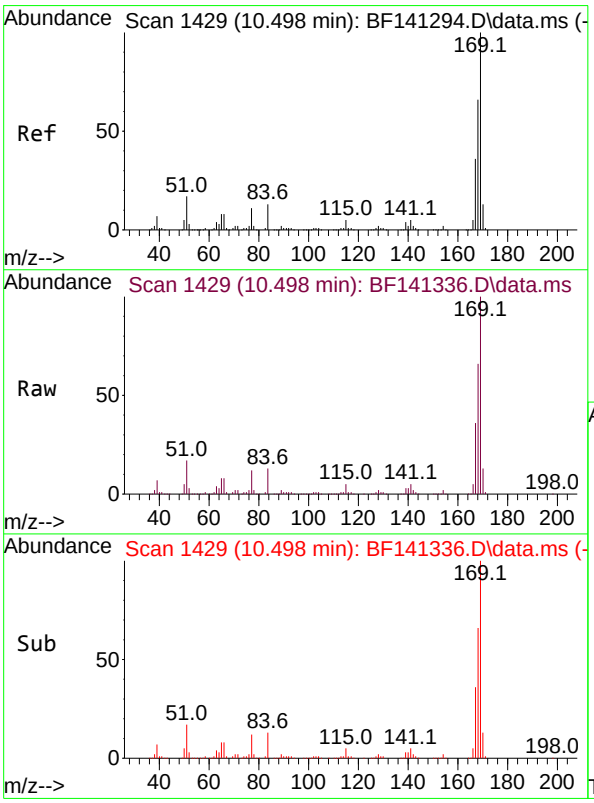
#65
4,6-Dinitro-2-methylphenol
Concen: 44.270 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 129346

Ion	Ratio	Lower	Upper
198	100		
51	52.8	33.4	73.4
105	43.1	24.4	64.4

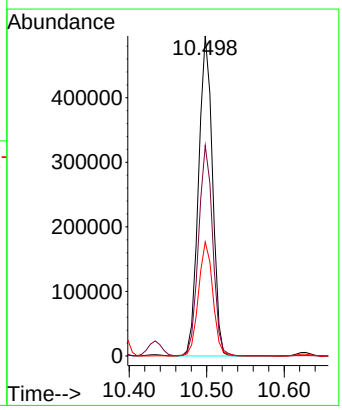


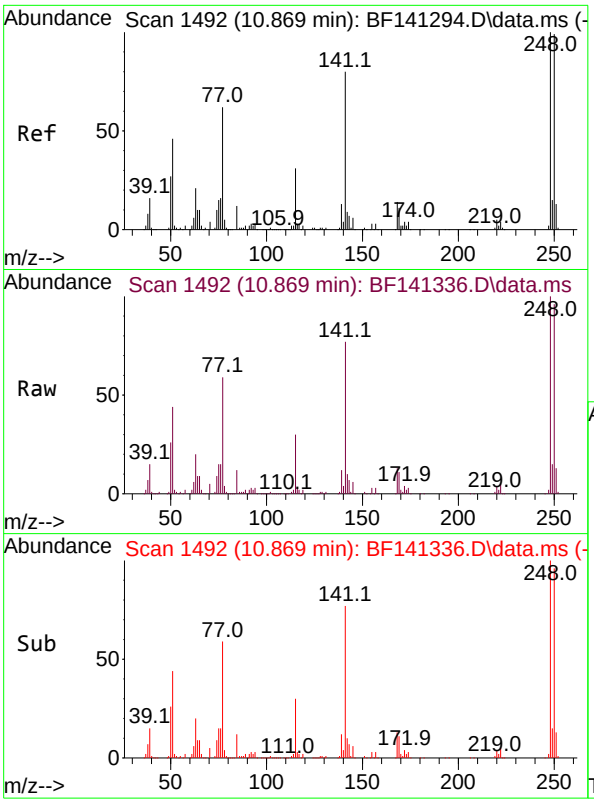


#66
n-Nitrosodiphenylamine
Concen: 38.751 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:169 Resp: 619094

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.0	79.4
167	35.7	28.8	43.2



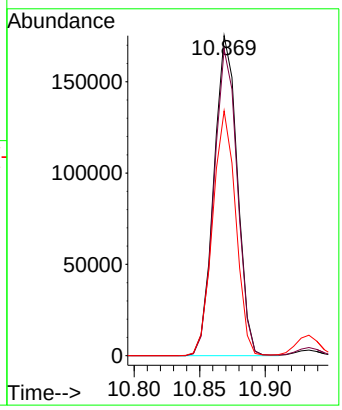


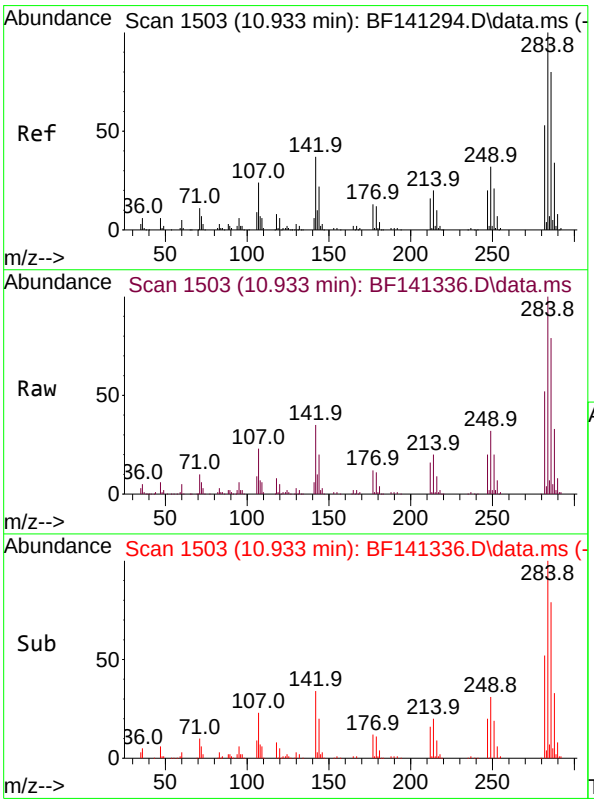
#67
4-Bromophenyl-phenylether
Concen: 39.236 ng
RT: 10.869 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 216973

Ion	Ratio	Lower	Upper
248	100		
250	95.7	79.0	118.4
141	76.5	63.7	95.5

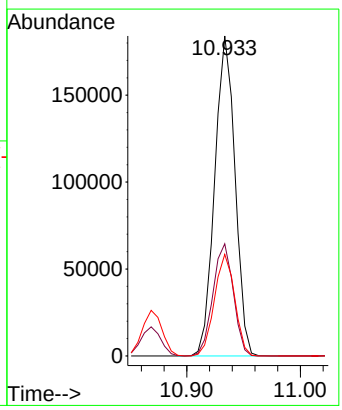


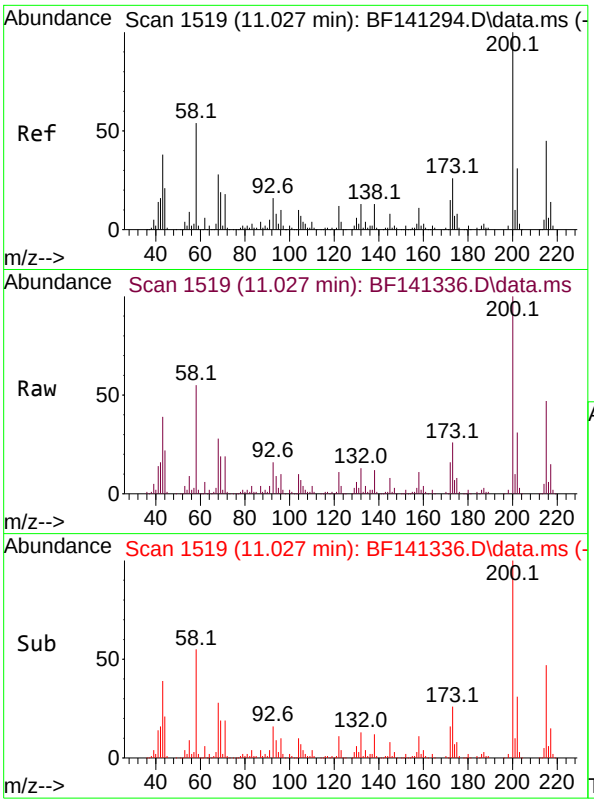


#68
Hexachlorobenzene
Concen: 38.991 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:284 Resp: 228716

Ion	Ratio	Lower	Upper
284	100		
142	35.1	29.5	44.3
249	31.7	25.4	38.2



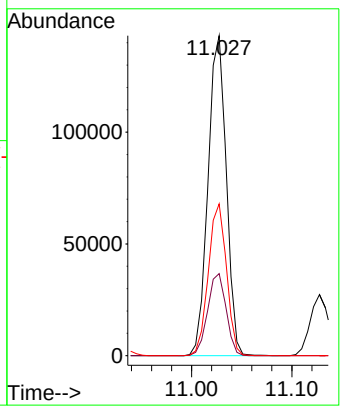


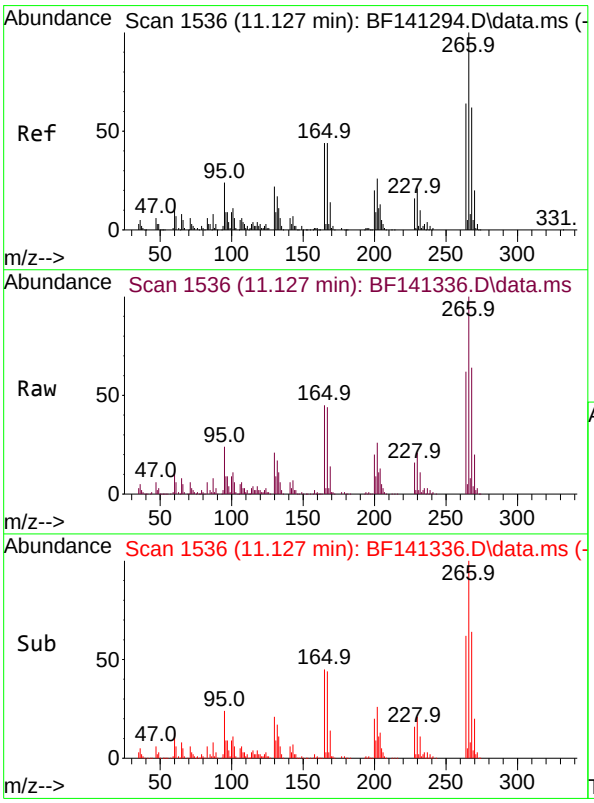
#69
Atrazine
Concen: 33.985 ng
RT: 11.027 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 181536

Ion	Ratio	Lower	Upper
200	100		
173	25.6	5.9	45.9
215	47.4	25.2	65.2

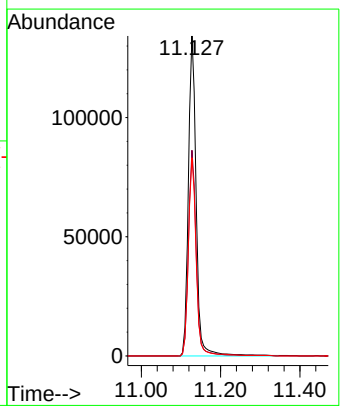


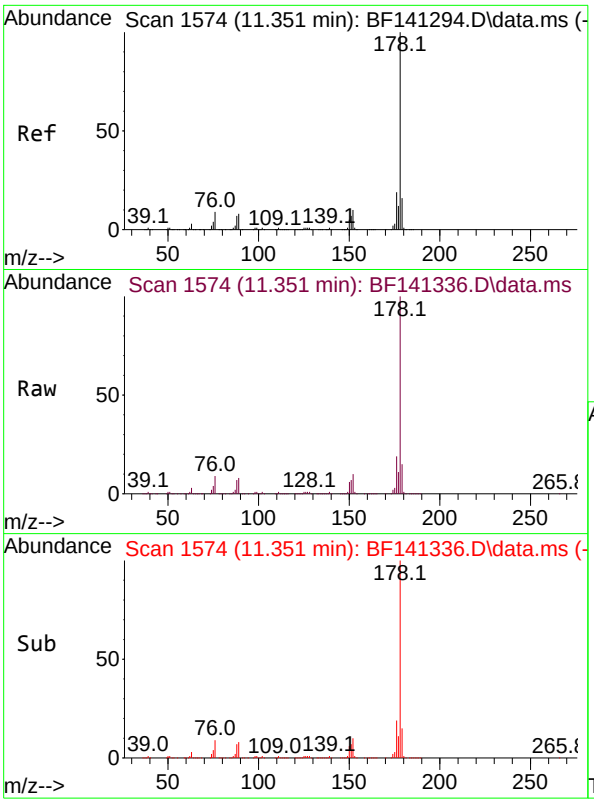


#70
Pentachlorophenol
Concen: 53.575 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:266 Resp: 184030

Ion	Ratio	Lower	Upper
266	100		
268	64.3	49.9	74.9
264	61.9	51.0	76.4



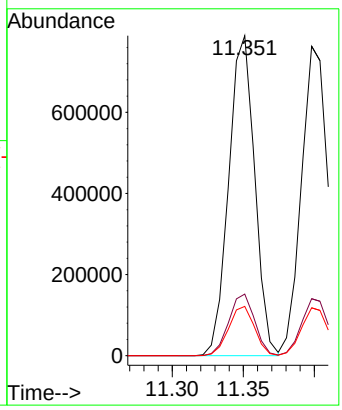


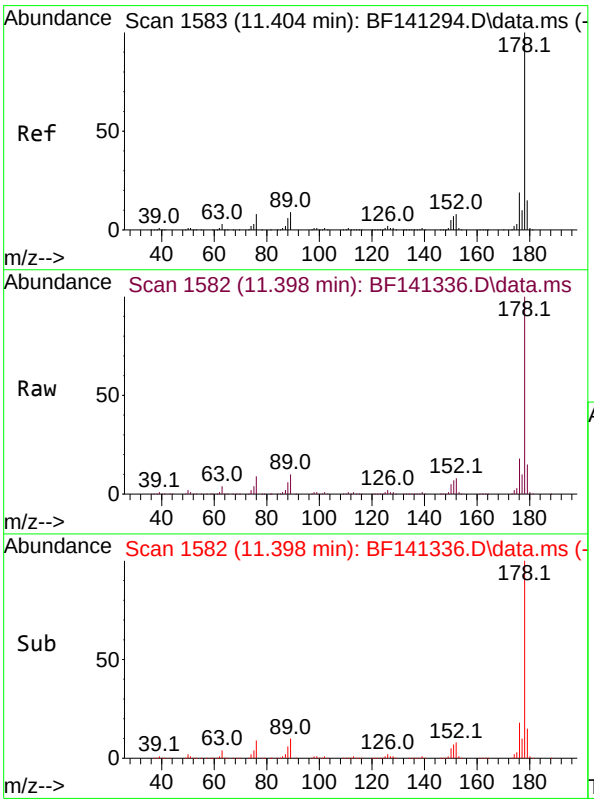
#71
Phenanthrene
Concen: 37.819 ng
RT: 11.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1004184

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.4	12.5	18.7

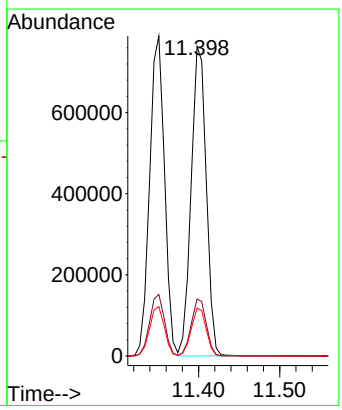


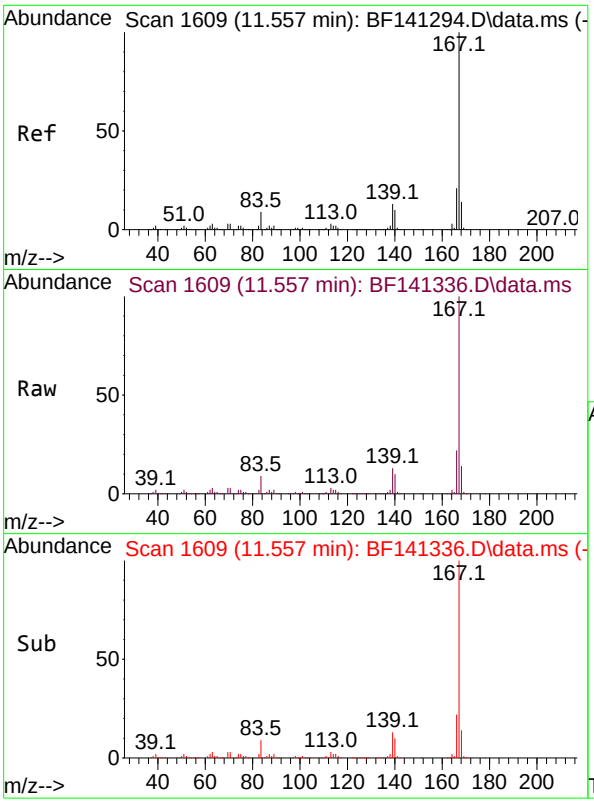


#72
Anthracene
Concen: 37.948 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:178 Resp: 987277

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.5	12.3	18.5



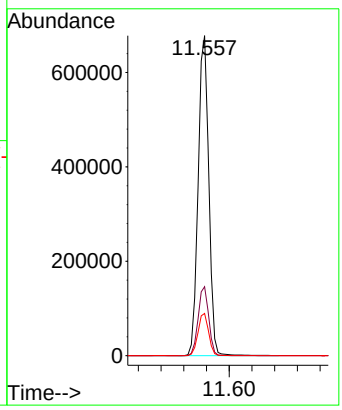


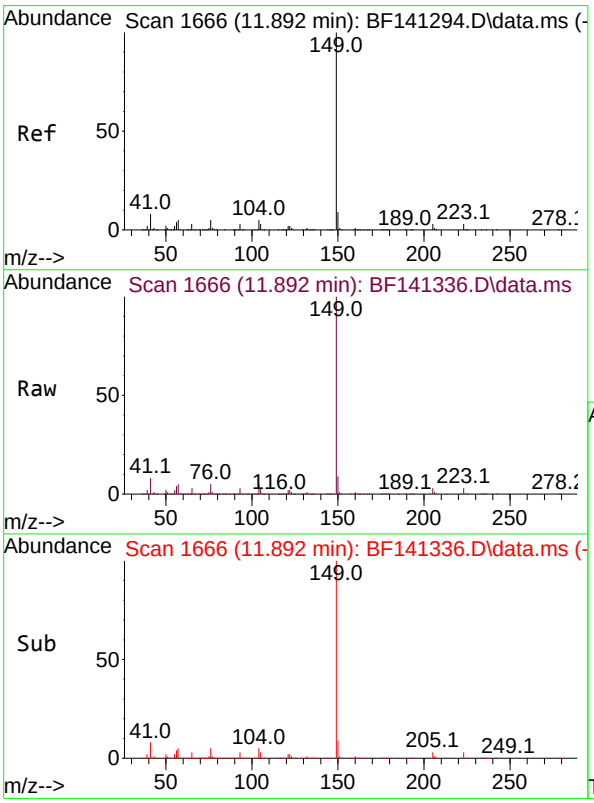
#73
Carbazole
Concen: 38.220 ng
RT: 11.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 881695

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.2	10.6	16.0

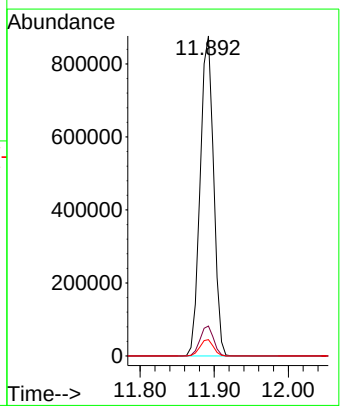


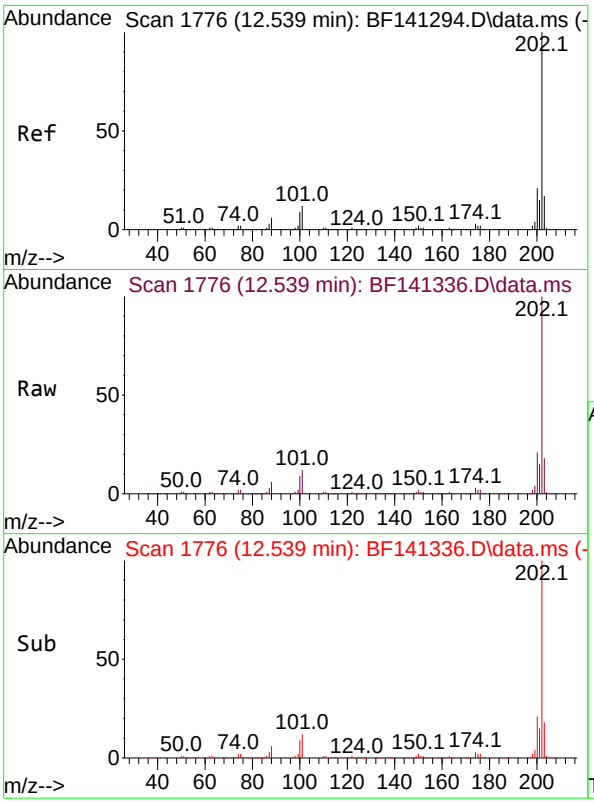


#74
Di-n-butylphthalate
Concen: 39.444 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:149 Resp: 1102750

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.1	3.9	5.9



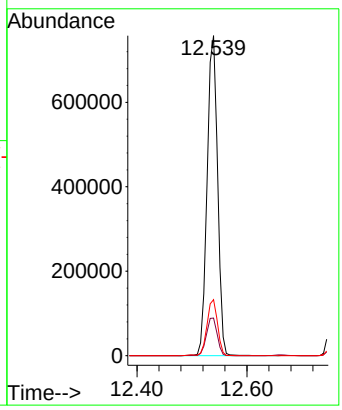


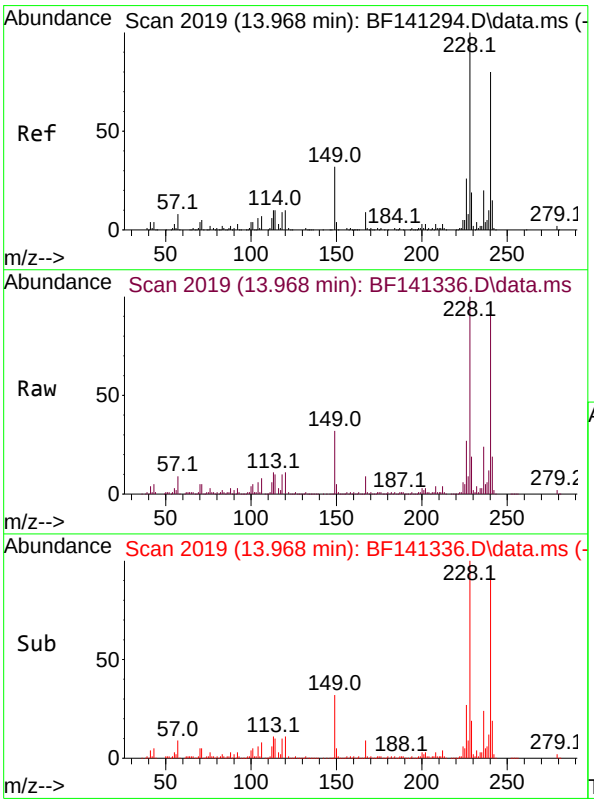
#75
Fluoranthene
Concen: 38.098 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 998810

Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	31.7
203	17.5	0.0	37.5

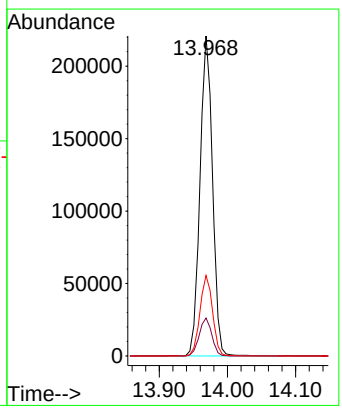


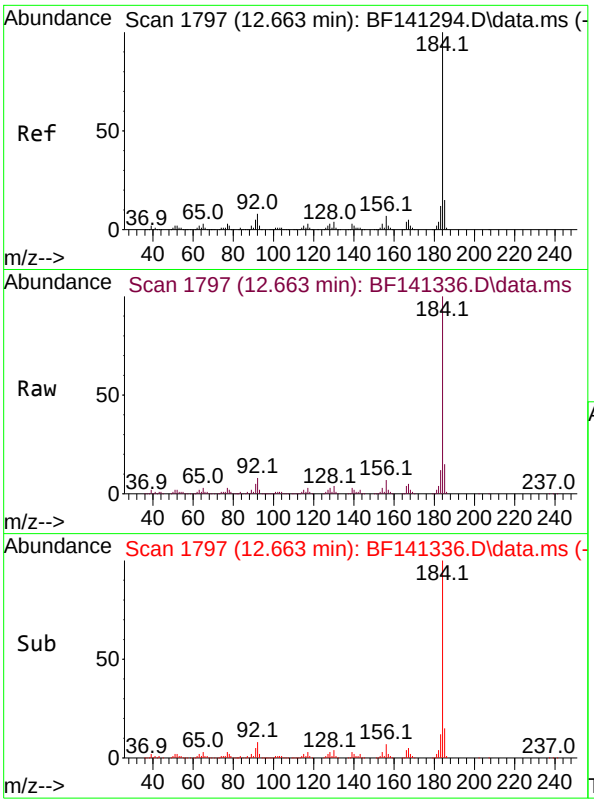


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:240 Resp: 281629

Ion	Ratio	Lower	Upper
240	100		
120	11.9	10.0	15.0
236	25.1	19.7	29.5



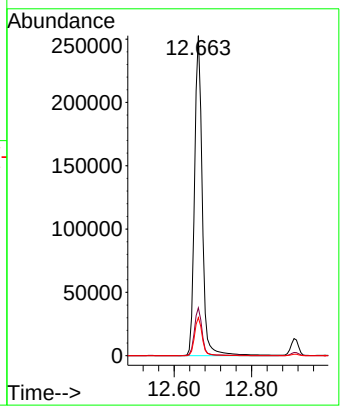


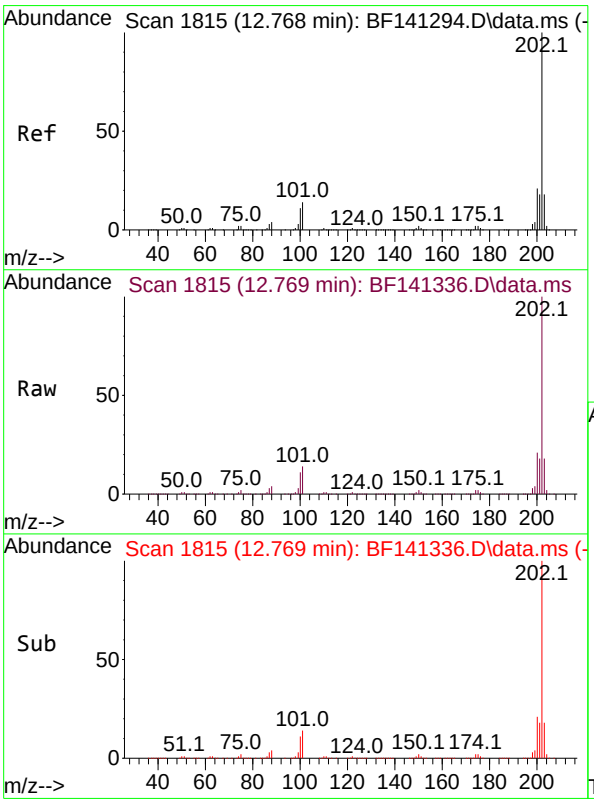
#77
Benzidine
Concen: 38.664 ng
RT: 12.663 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 349084

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.9	17.9
183	11.9	9.5	14.3

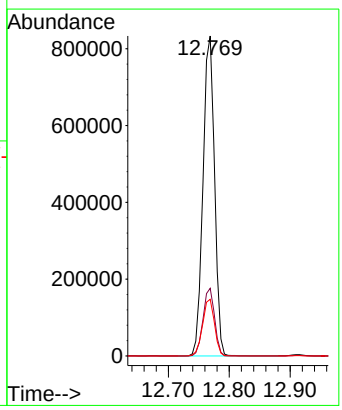


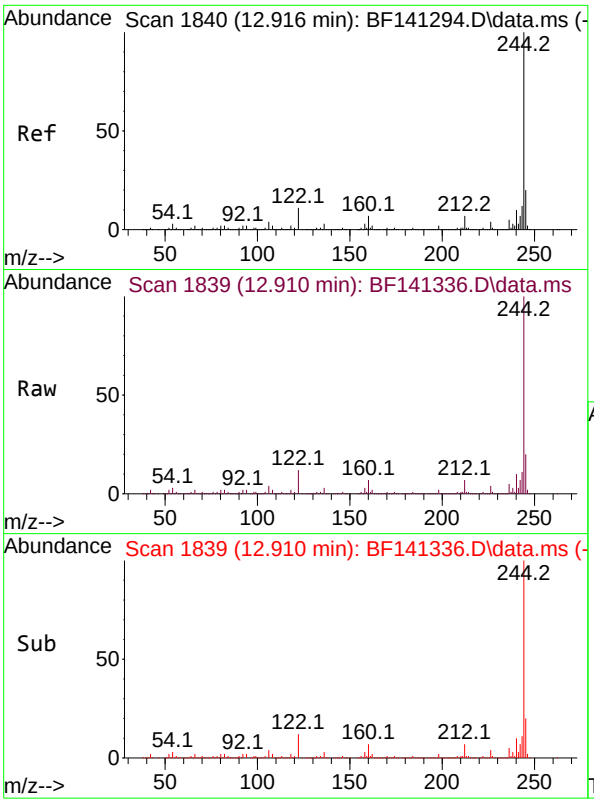


#78
Pyrene
Concen: 40.606 ng
RT: 12.769 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:202 Resp: 1097741

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5



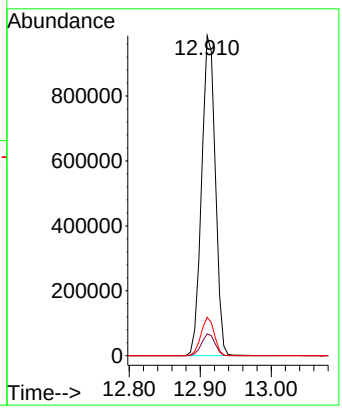


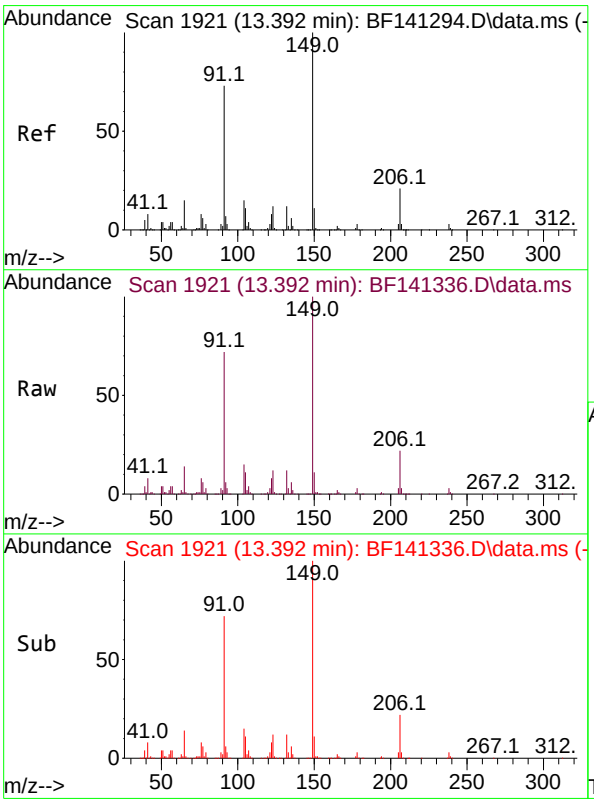
#79
Terphenyl-d14
Concen: 72.583 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1325492

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	12.0	8.8	13.2

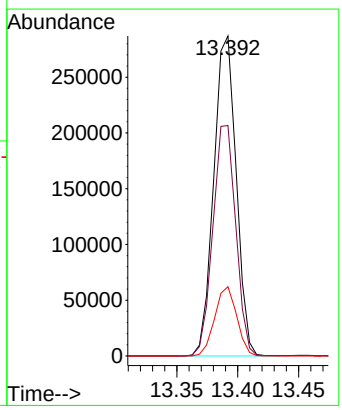


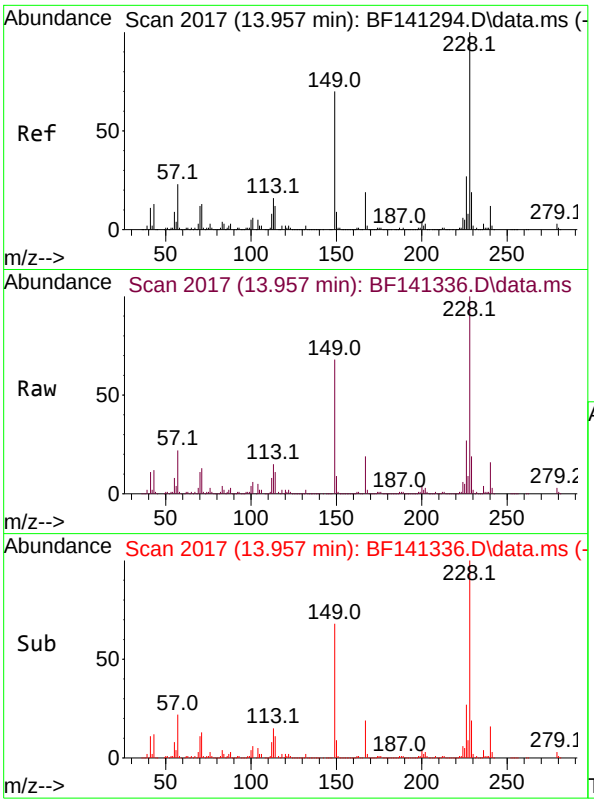


#80
Butylbenzylphthalate
Concen: 39.103 ng
RT: 13.392 min Scan# 1921
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:149 Resp: 369304

Ion	Ratio	Lower	Upper
149	100		
91	72.0	58.6	87.8
206	21.7	16.7	25.1



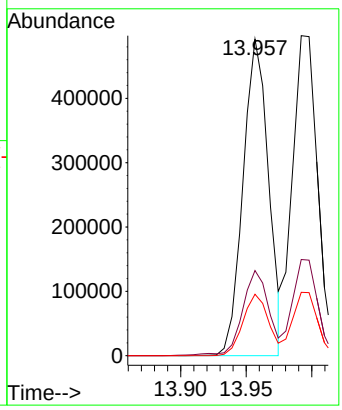


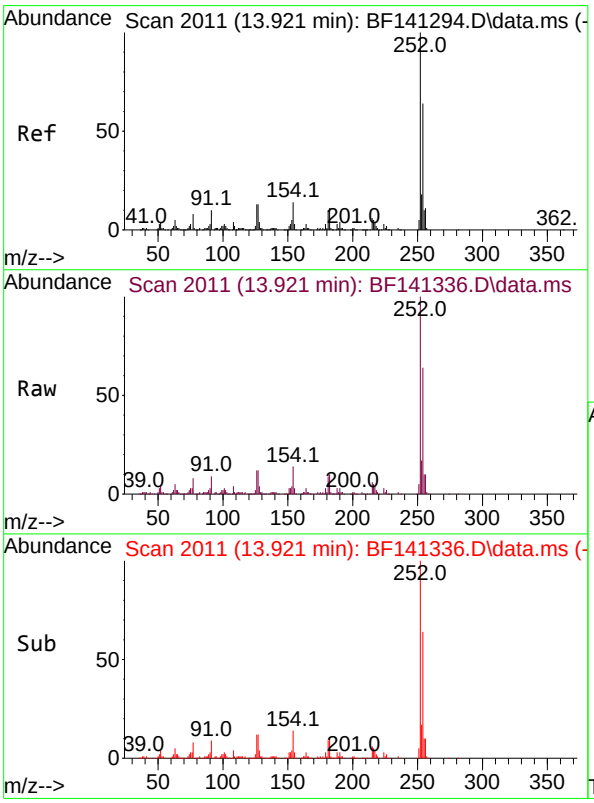
#81
Benzo(a)anthracene
Concen: 34.223 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 665086

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.4	32.2
229	19.4	15.5	23.3

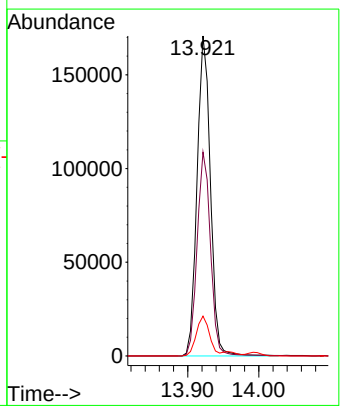


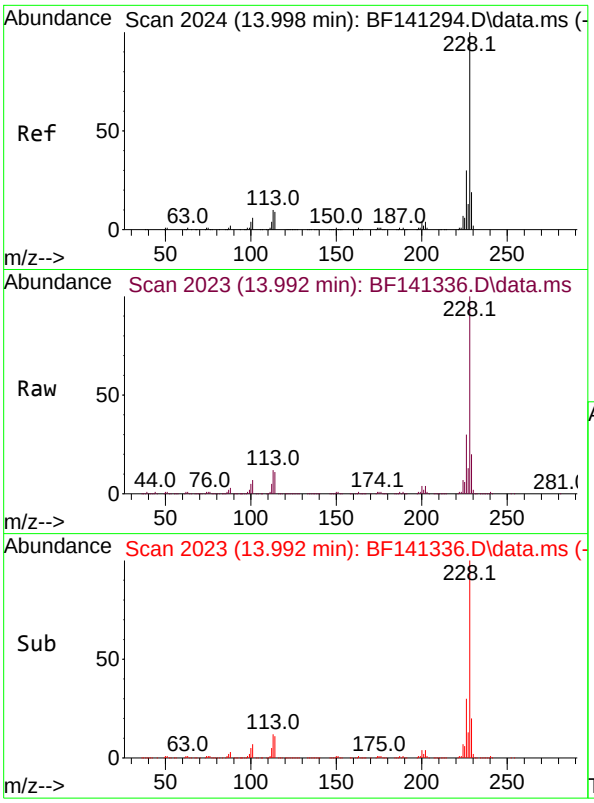


#82
3,3'-Dichlorobenzidine
Concen: 36.200 ng
RT: 13.921 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:252 Resp: 223750

Ion	Ratio	Lower	Upper
252	100		
254	63.7	51.3	76.9
126	12.5	10.0	15.0



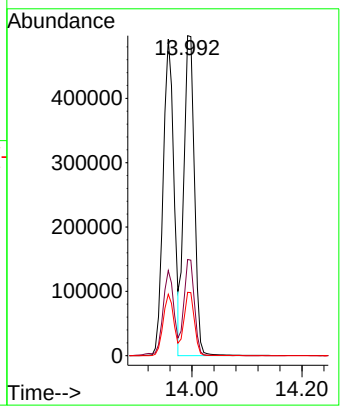


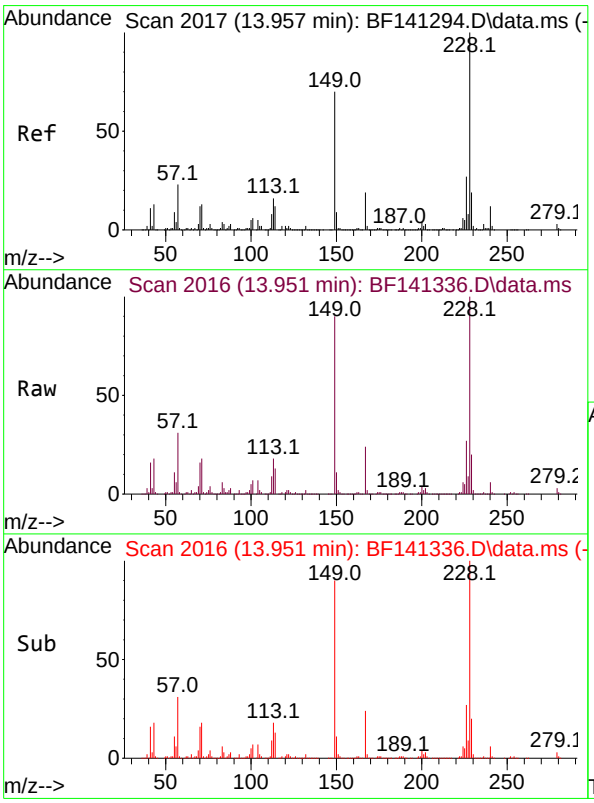
#83
Chrysene
Concen: 37.287 ng
RT: 13.992 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 664102

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.1	36.1
229	19.8	15.6	23.4

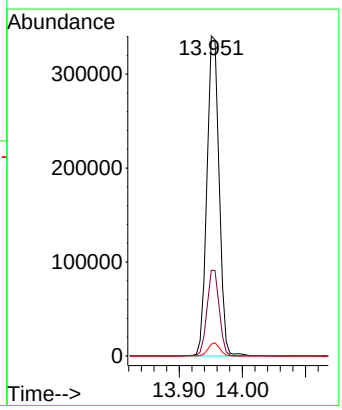


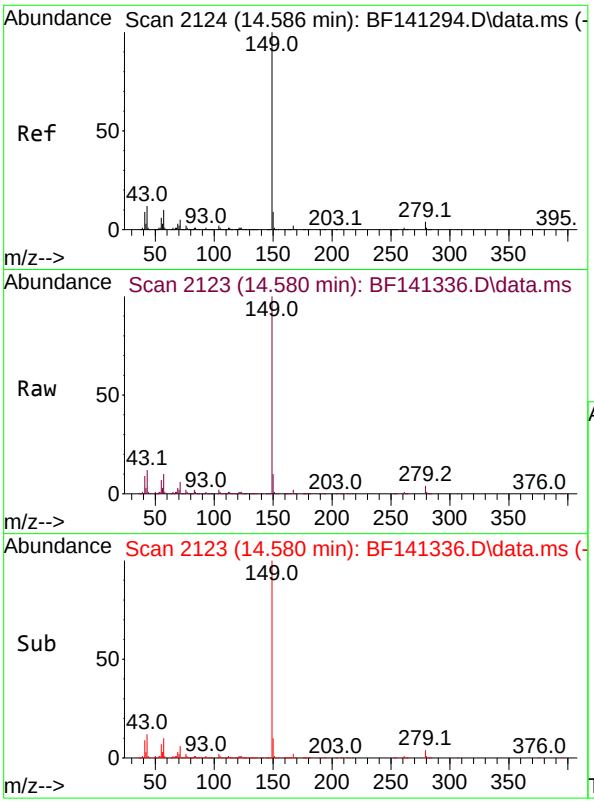


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.304 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:149 Resp: 458911

Ion	Ratio	Lower	Upper
149	100		
167	26.8	21.8	32.8
279	3.7	3.3	4.9



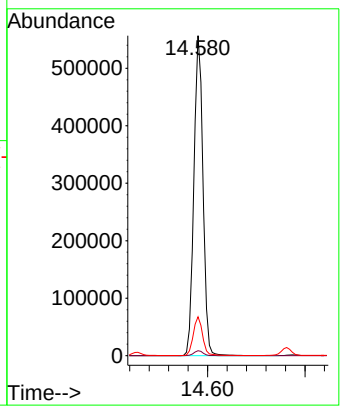


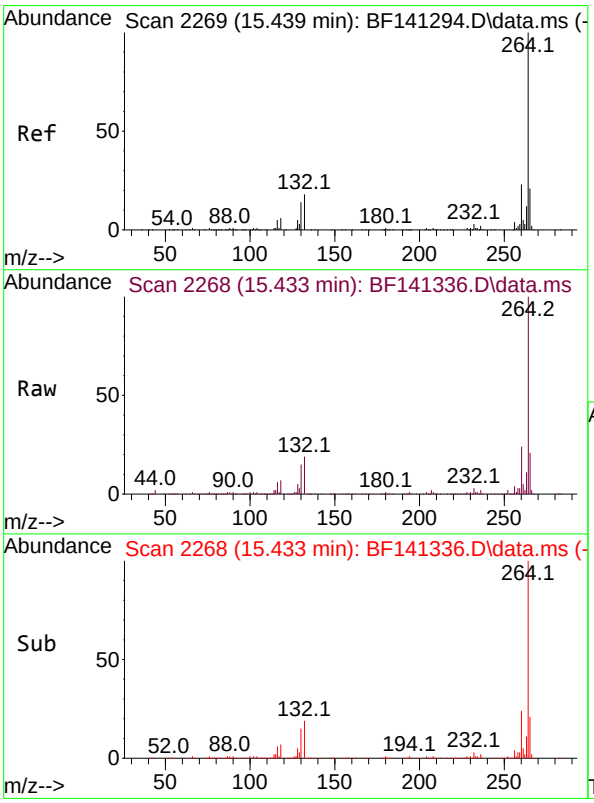
#85
Di-n-octyl phthalate
Concen: 38.886 ng
RT: 14.580 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 723593

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.4	9.8	14.8

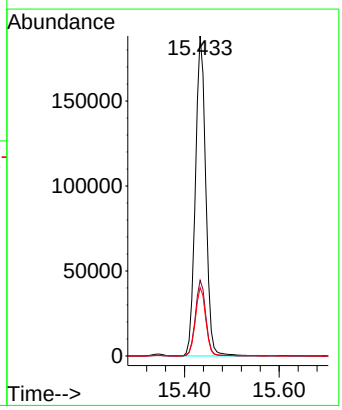


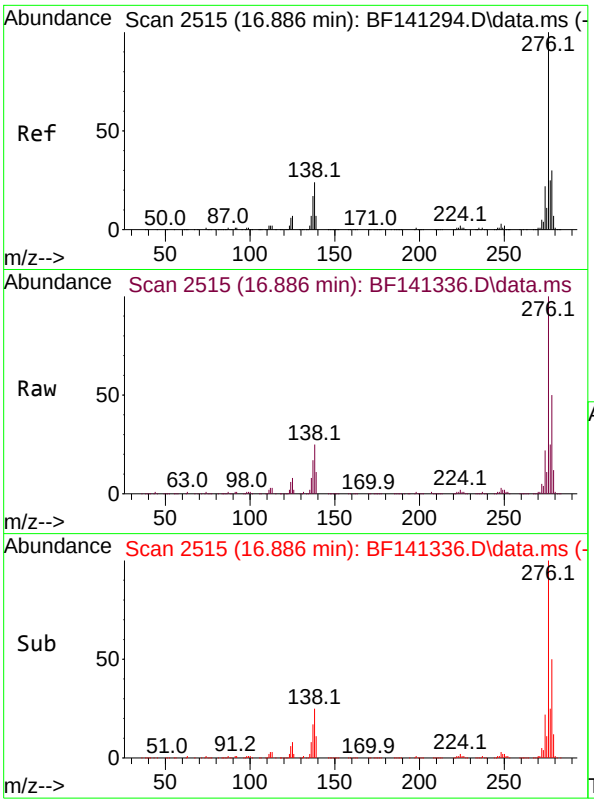


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:264 Resp: 286623

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	27.8
265	21.4	16.7	25.1



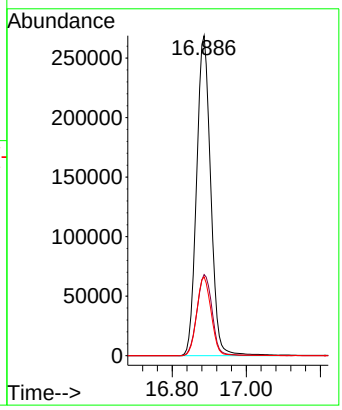


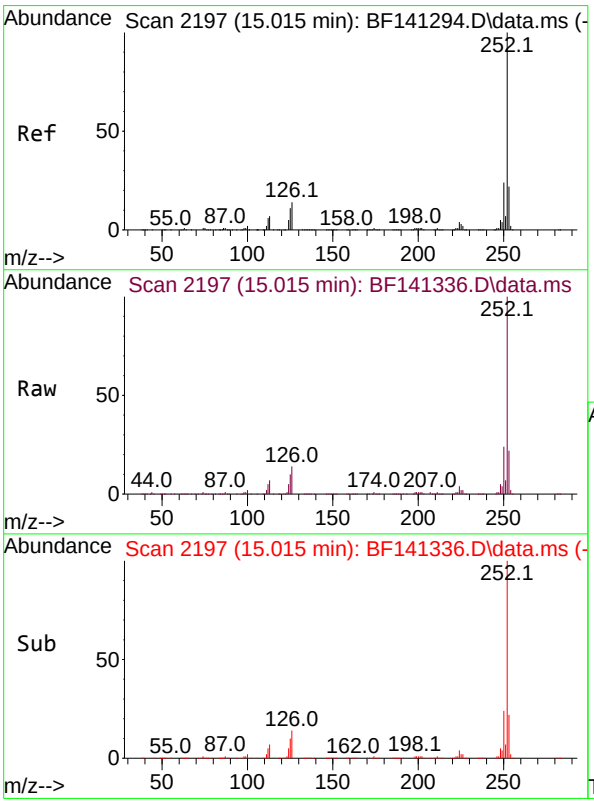
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.376 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 709942

Ion	Ratio	Lower	Upper
276	100		
138	27.3	21.7	32.5
277	25.2	20.3	30.5

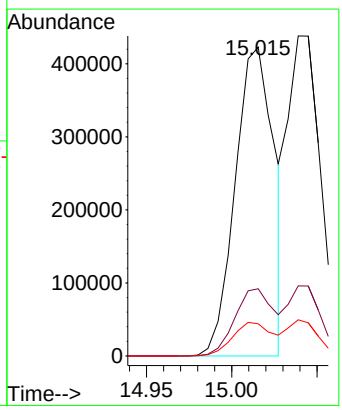


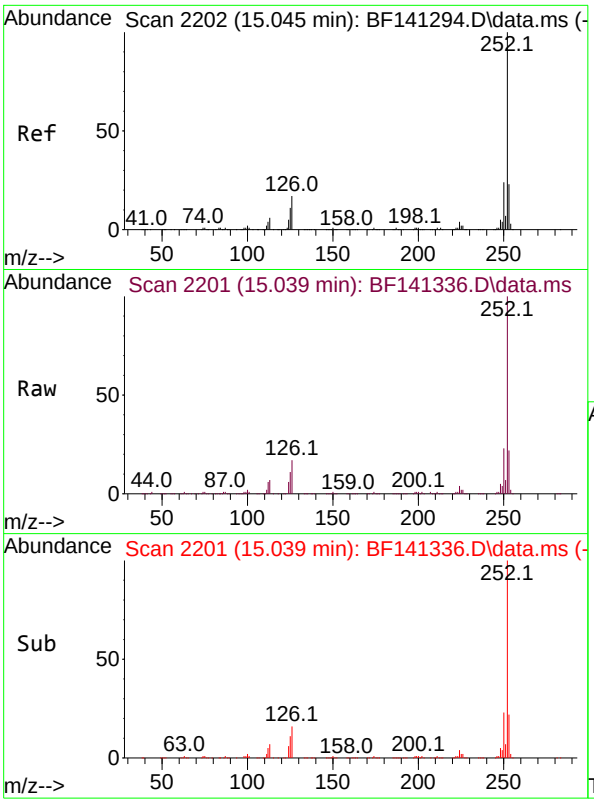


#88
Benzo(b)fluoranthene
Concen: 37.149 ng
RT: 15.015 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:252 Resp: 669775

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.4	26.2
125	10.4	8.6	12.8



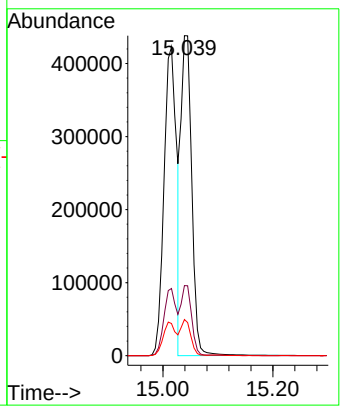


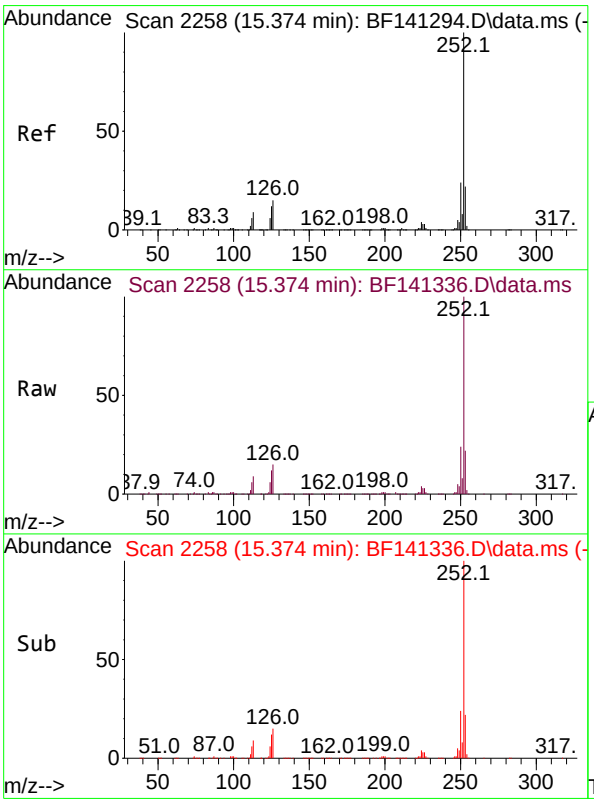
#89
Benzo(k)fluoranthene
Concen: 37.413 ng
RT: 15.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 597549

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	11.3	8.4	12.6

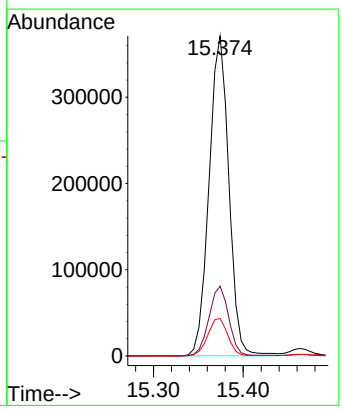


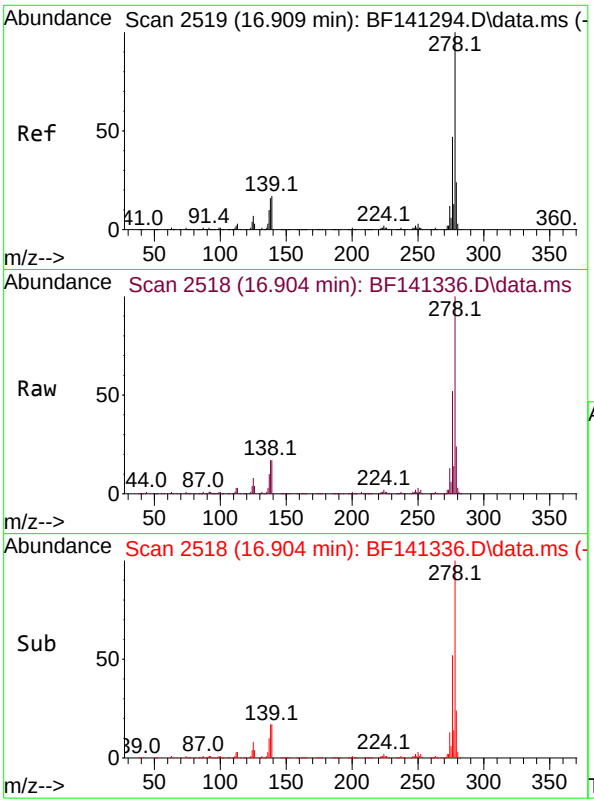


#90
Benzo(a)pyrene
Concen: 37.294 ng
RT: 15.374 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:252 Resp: 568194

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.2	25.8
125	11.7	9.4	14.2



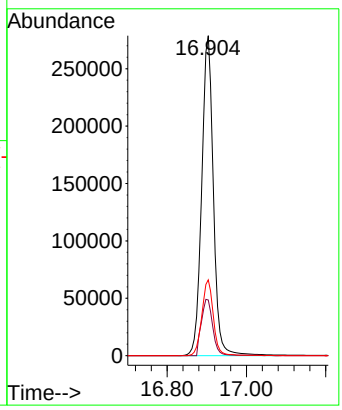


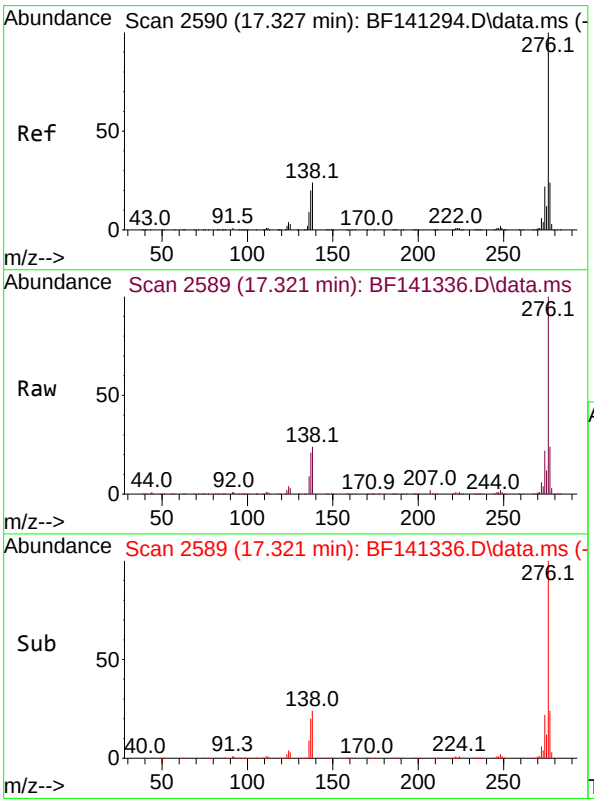
#91
Dibenzo(a,h)anthracene
Concen: 38.458 ng
RT: 16.904 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 572387

Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.9	20.9
279	23.7	18.8	28.2

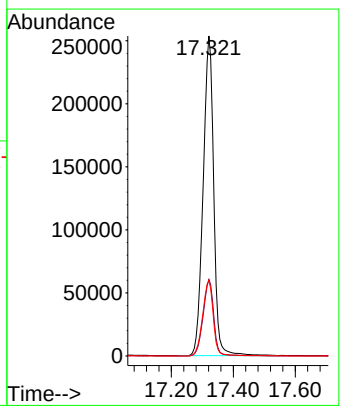




#92
Benzo(g,h,i)perylene
Concen: 38.883 ng
RT: 17.321 min Scan# 2589
Delta R.T. -0.024 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:276 Resp: 601743

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	23.6	19.0	28.4



Sample Results: **BF141336.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	103	0.00
2		1,4-Dioxane	0.573	0.545	4.9	104	0.00
3		Pyridine	1.380	1.326	3.9	103	-0.02
4		n-Nitrosodimethylamine	0.789	0.750	4.9	102	-0.04
5	S	2-Fluorophenol	1.303	1.218	6.5	104	-0.01
6		Aniline	1.403	1.344	4.2	101	-0.01
7	S	Phenol-d6	1.657	1.534	7.4	104	-0.01
8		2-Chlorophenol	1.396	1.307	6.4	103	-0.01
9		Benzaldehyde	0.960	0.972	-1.3	111	0.00
10	C	Phenol	1.757	1.652	6.0	103	-0.01
11		bis(2-Chloroethyl)ether	1.347	1.267	5.9	106	-0.01
12		1,3-Dichlorobenzene	1.540	1.440	6.5	103	0.00
13	C	1,4-Dichlorobenzene	1.547	1.436	7.2	103	0.00
14		1,2-Dichlorobenzene	1.448	1.350	6.8	103	0.00
15		Benzyl Alcohol	1.133	1.101	2.8	104	0.00
16		2,2'-oxybis(1-Chloropropane	2.342	2.199	6.1	103	0.00
17		2-Methylphenol	1.135	1.062	6.4	105	0.00
18		Hexachloroethane	0.571	0.536	6.1	104	0.00
19	P	n-Nitroso-di-n-propylamine	0.985	0.946	4.0	108	-0.01
20		3+4-Methylphenols	1.393	1.318	5.4	105	-0.01
21	I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
22		Acetophenone	0.475	0.424	10.7	102	0.00
23	S	Nitrobenzene-d5	0.379	0.348	8.2	103	0.00
24		Nitrobenzene	0.393	0.365	7.1	103	-0.01
25		Isophorone	0.656	0.622	5.2	107	0.00
26	C	2-Nitrophenol	0.185	0.175	5.4	104	0.00
27		2,4-Dimethylphenol	0.236	0.224	5.1	105	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.386	7.7	104	0.00
29	C	2,4-Dichlorophenol	0.289	0.272	5.9	105	0.00
30		1,2,4-Trichlorobenzene	0.330	0.299	9.4	103	0.00
31		Naphthalene	1.057	0.966	8.6	104	0.00
32		Benzoic acid	0.217	0.226	-4.1	107	-0.04
33		4-Chloroaniline	0.358	0.329	8.1	102	0.00
34	C	Hexachlorobutadiene	0.194	0.179	7.7	105	0.00
35		Caprolactam	0.094	0.091	3.2	108	-0.02
36	C	4-Chloro-3-methylphenol	0.310	0.341	-10.0	124	0.00
37		2-Methylnaphthalene	0.672	0.618	8.0	104	0.00
38		1-Methylnaphthalene	0.660	0.605	8.3	105	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
40		1,2,4,5-Tetrachlorobenzene	0.569	0.515	9.5	102	0.00
41	P	Hexachlorocyclopentadiene	0.168	0.159	5.4	98	0.00
42	S	2,4,6-Tribromophenol	0.183	0.177	3.3	108	0.00
43	C	2,4,6-Trichlorophenol	0.372	0.365	1.9	106	0.00
44		2,4,5-Trichlorophenol	0.405	0.381	5.9	107	0.00
45	S	2-Fluorobiphenyl	1.299	1.148	11.6	103	0.00
46		1,1'-Biphenyl	1.560	1.427	8.5	104	0.00
47		2-Chloronaphthalene	1.216	1.102	9.4	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.366	4.2	107	0.00
49		Acenaphthylene	1.702	1.577	7.3	105	0.00
50		Dimethylphthalate	1.351	1.290	4.5	110	0.00
51		2,6-Dinitrotoluene	0.314	0.300	4.5	107	0.00
52	C	Acenaphthene	1.216	1.127	7.3	106	0.00
53		3-Nitroaniline	0.307	0.292	4.9	102	0.00
54	P	2,4-Dinitrophenol	0.146	0.150	-2.7	108	0.00
55		Dibenzofuran	1.627	1.481	9.0	103	0.00
56	P	4-Nitrophenol	0.225	0.300	-33.3#	142	0.00
57		2,4-Dinitrotoluene	0.406	0.427	-5.2	117	0.00
58		Fluorene	1.262	1.151	8.8	104	0.00
59		2,3,4,6-Tetrachlorophenol	0.319	0.310	2.8	108	0.00
60		Diethylphthalate	1.310	1.249	4.7	108	0.00
61		4-Chlorophenyl-phenylether	0.617	0.562	8.9	105	0.00
62		4-Nitroaniline	0.302	0.288	4.6	105	-0.01
63		Azobenzene	1.311	1.231	6.1	107	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.131	-11.0	113	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.627	3.1	108	0.00
67		4-Bromophenyl-phenylether	0.224	0.220	1.8	109	0.00
68		Hexachlorobenzene	0.238	0.232	2.5	109	0.00
69		Atrazine	0.216	0.184	14.8	93	0.00
70	C	Pentachlorophenol	0.139	0.186	-33.8#	140	0.00
71		Phenanthrene	1.075	1.016	5.5	107	0.00
72		Anthracene	1.053	0.999	5.1	107	0.00
73		Carbazole	0.934	0.892	4.5	107	0.00
74		Di-n-butylphthalate	1.132	1.116	1.4	111	0.00
75	C	Fluoranthene	1.062	1.011	4.8	108	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	108	0.00
77		Benzidine	0.641	0.620	3.3	92	0.00
78		Pyrene	1.920	1.949	-1.5	120	0.00
79	S	Terphenyl-d14	1.297	1.177	9.3	108	0.00
80		Butylbenzylphthalate	0.671	0.656	2.2	113	0.00
81		Benzo(a)anthracene	1.380	1.181	14.4	100	0.00
82		3,3'-Dichlorobenzidine	0.439	0.397	9.6	103	0.00
83		Chrysene	1.265	1.179	6.8	112	0.00
84		Bis(2-ethylhexyl)phthalate	0.851	0.815	4.2	112	0.00
85	c	Di-n-octyl phthalate	1.321	1.285	2.7	113	0.00
86	I	Perylene-d12	1.000	1.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	1.291	1.238	4.1	101	-0.01
88		Benzo(b)fluoranthene	1.258	1.168	7.2	107	0.00
89		Benzo(k)fluoranthene	1.114	1.042	6.5	99	-0.01
90	C	Benzo(a)pyrene	1.063	0.991	6.8	101	0.00
91		Dibenzo(a,h)anthracene	1.039	0.999	3.8	101	-0.02
92		Benzo(g,h,i)perylene	1.080	1.050	2.8	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

Sample Results: **BF141336.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	103	0.00
2		1,4-Dioxane	40.000	38.066	4.8	104	0.00
3		Pyridine	40.000	38.429	3.9	103	-0.02
4		n-Nitrosodimethylamine	40.000	38.050	4.9	102	-0.04
5	S	2-Fluorophenol	80.000	74.803	6.5	104	-0.01
6		Aniline	40.000	38.328	4.2	101	-0.01
7	S	Phenol-d6	80.000	74.066	7.4	104	-0.01
8		2-Chlorophenol	40.000	37.432	6.4	103	-0.01
9		Benzaldehyde	40.000	40.484	-1.2	111	0.00
10	C	Phenol	40.000	37.622	5.9	103	-0.01
11		bis(2-Chloroethyl)ether	40.000	37.636	5.9	106	-0.01
12		1,3-Dichlorobenzene	40.000	37.423	6.4	103	0.00
13	C	1,4-Dichlorobenzene	40.000	37.151	7.1	103	0.00
14		1,2-Dichlorobenzene	40.000	37.272	6.8	103	0.00
15		Benzyl Alcohol	40.000	38.880	2.8	104	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.552	6.1	103	0.00
17		2-Methylphenol	40.000	37.434	6.4	105	0.00
18		Hexachloroethane	40.000	37.585	6.0	104	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.424	3.9	108	-0.01
20		3+4-Methylphenols	40.000	37.845	5.4	105	-0.01
21	I	Naphthalene-d8	20.000	20.000	0.0	105	0.00
22		Acetophenone	40.000	35.678	10.8	102	0.00
23	S	Nitrobenzene-d5	80.000	73.308	8.4	103	0.00
24		Nitrobenzene	40.000	37.116	7.2	103	-0.01
25		Isophorone	40.000	37.934	5.2	107	0.00
26	C	2-Nitrophenol	40.000	37.762	5.6	104	0.00
27		2,4-Dimethylphenol	40.000	37.999	5.0	105	0.00
28		bis(2-Chloroethoxy)methane	40.000	36.955	7.6	104	0.00
29	C	2,4-Dichlorophenol	40.000	37.608	6.0	105	0.00
30		1,2,4-Trichlorobenzene	40.000	36.214	9.5	103	0.00
31		Naphthalene	40.000	36.561	8.6	104	0.00
32		Benzoic acid	40.000	41.698	-4.2	107	-0.04
33		4-Chloroaniline	40.000	36.719	8.2	102	0.00
34	C	Hexachlorobutadiene	40.000	37.021	7.4	105	0.00
35		Caprolactam	40.000	38.705	3.2	108	-0.02
36	C	4-Chloro-3-methylphenol	40.000	43.991	-10.0	124	0.00
37		2-Methylnaphthalene	40.000	36.818	8.0	104	0.00
38		1-Methylnaphthalene	40.000	36.681	8.3	105	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	106	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	36.224	9.4	102	0.00
41	P	Hexachlorocyclopentadiene	40.000	37.949	5.1	98	0.00
42	S	2,4,6-Tribromophenol	80.000	77.122	3.6	108	0.00
43	C	2,4,6-Trichlorophenol	40.000	39.199	2.0	106	0.00
44		2,4,5-Trichlorophenol	40.000	37.608	6.0	107	0.00
45	S	2-Fluorobiphenyl	80.000	70.690	11.6	103	0.00
46		1,1'-Biphenyl	40.000	36.585	8.5	104	0.00
47		2-Chloronaphthalene	40.000	36.251	9.4	104	0.00

Sample Results: **BF141336.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	38.330	4.2	107	0.00
49		Acenaphthylene	40.000	37.073	7.3	105	0.00
50		Dimethylphthalate	40.000	38.200	4.5	110	0.00
51		2,6-Dinitrotoluene	40.000	38.268	4.3	107	0.00
52	C	Acenaphthene	40.000	37.066	7.3	106	0.00
53		3-Nitroaniline	40.000	37.936	5.2	102	0.00
54	P	2,4-Dinitrophenol	40.000	41.270	-3.2	108	0.00
55		Dibenzofuran	40.000	36.395	9.0	103	0.00
56	P	4-Nitrophenol	40.000	53.378	-33.4#	142	0.00
57		2,4-Dinitrotoluene	40.000	42.014	-5.0	117	0.00
58		Fluorene	40.000	36.485	8.8	104	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.903	2.7	108	0.00
60		Diethylphthalate	40.000	38.140	4.6	108	0.00
61		4-Chlorophenyl-phenylether	40.000	36.458	8.9	105	0.00
62		4-Nitroaniline	40.000	38.063	4.8	105	-0.01
63		Azobenzene	40.000	37.573	6.1	107	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65		4,6-Dinitro-2-methylphenol	40.000	44.270	-10.7	113	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.751	3.1	108	0.00
67		4-Bromophenyl-phenylether	40.000	39.236	1.9	109	0.00
68		Hexachlorobenzene	40.000	38.991	2.5	109	0.00
69		Atrazine	40.000	33.985	15.0	93	0.00
70	C	Pentachlorophenol	40.000	53.575	-33.9#	140	0.00
71		Phenanthrene	40.000	37.819	5.5	107	0.00
72		Anthracene	40.000	37.948	5.1	107	0.00
73		Carbazole	40.000	38.220	4.5	107	0.00
74		Di-n-butylphthalate	40.000	39.444	1.4	111	0.00
75	C	Fluoranthene	40.000	38.098	4.8	108	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	108	0.00
77		Benzidine	40.000	38.664	3.3	92	0.00
78		Pyrene	40.000	40.606	-1.5	120	0.00
79	S	Terphenyl-d14	80.000	72.583	9.3	108	0.00
80		Butylbenzylphthalate	40.000	39.103	2.2	113	0.00
81		Benzo(a)anthracene	40.000	34.223	14.4	100	0.00
82		3,3'-Dichlorobenzidine	40.000	36.200	9.5	103	0.00
83		Chrysene	40.000	37.287	6.8	112	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	38.304	4.2	112	0.00
85	c	Di-n-octyl phthalate	40.000	38.886	2.8	113	0.00
86	I	Perylene-d12	20.000	20.000	0.0	103	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.376	4.1	101	-0.01
88		Benzo(b)fluoranthene	40.000	37.149	7.1	107	0.00
89		Benzo(k)fluoranthene	40.000	37.413	6.5	99	-0.01
90	C	Benzo(a)pyrene	40.000	37.294	6.8	101	0.00
91		Dibenzo(a,h)anthracene	40.000	38.458	3.9	101	-0.02
92		Benzo(g,h,i)perylene	40.000	38.883	2.8	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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 = 1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Instrument ID: BNA_F Calibration Date/Time: 02/03/2025 11:24

Lab File ID: BF141361.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.326		-3.9	
2-Fluorophenol	1.303	1.313		0.8	
Phenol-d6	1.657	1.641		-1.0	
1,4-Dichlorobenzene	1.547	1.568		1.4	20.0
2-Methylphenol	1.135	1.098		-3.3	
3+4-Methylphenols	1.393	1.446		3.8	
Nitrobenzene-d5	0.379	0.397		4.7	
Hexachloroethane	0.571	0.590		3.3	
Nitrobenzene	0.393	0.407		3.6	
Hexachlorobutadiene	0.194	0.207		6.7	20.0
2,4,6-Trichlorophenol	0.372	0.384		3.2	20.0
2-Fluorobiphenyl	1.299	1.315		1.2	
2,4,5-Trichlorophenol	0.405	0.416		2.7	
2,4-Dinitrotoluene	0.406	0.426		4.9	
2,4,6-Tribromophenol	0.183	0.200		9.3	
Hexachlorobenzene	0.238	0.249		4.6	
Pentachlorophenol	0.139	0.152		9.4	20.0
Terphenyl-d14	1.297	1.144		-11.8	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	93803	20.000	ng		0.00
21) Naphthalene-d8	8.081	136	362783	20.000	ng		0.00
39) Acenaphthene-d10	9.833	164	198566	20.000	ng		0.00
64) Phenanthrene-d10	11.322	188	334466	20.000	ng		0.00
76) Chrysene-d12	13.968	240	243574	20.000	ng		0.00
86) Perylene-d12	15.427	264	284769	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	492717	80.639	ng		0.00
7) Phenol-d6	6.439	99	615730	79.215	ng		0.00
23) Nitrobenzene-d5	7.363	82	576560	83.781	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	158958	87.321	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	1044178	80.940	ng		0.00
79) Terphenyl-d14	12.910	244	1114591	70.570	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.475	88	118270	44.012	ng		99
3) Pyridine	3.210	79	248823	38.431	ng		97
4) n-Nitrosodimethylamine	3.163	42	157786	42.660	ng		92
6) Aniline	6.457	93	244181	37.112	ng	#	10
8) 2-Chlorophenol	6.587	128	266456	40.687	ng		98
9) Benzaldehyde	6.345	77	185452	41.190	ng		99
10) Phenol	6.451	94	323771	39.294	ng	#	73
11) bis(2-Chloroethyl)ether	6.534	93	244237	38.659	ng		99
12) 1,3-Dichlorobenzene	6.739	146	294934	40.844	ng		99
13) 1,4-Dichlorobenzene	6.816	146	294184	40.554	ng		99
14) 1,2-Dichlorobenzene	6.969	146	276119	40.649	ng		99
15) Benzyl Alcohol	6.939	79	227583	42.844	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.075	45	412661	37.563	ng		68
17) 2-Methylphenol	7.063	107	205926	38.689	ng	#	90
18) Hexachloroethane	7.310	117	110745	41.383	ng		97
19) n-Nitroso-di-n-propyla...	7.210	70	182630	39.542	ng		99
20) 3+4-Methylphenols	7.216	107	271346	41.520	ng	#	84
22) Acetophenone	7.204	105	363495	42.153	ng	#	96
24) Nitrobenzene	7.381	77	295113	41.381	ng		99
25) Isophorone	7.616	82	473753	39.825	ng		99
26) 2-Nitrophenol	7.698	139	139470	41.467	ng		99
27) 2,4-Dimethylphenol	7.739	122	169654m	39.629	ng		
28) bis(2-Chloroethoxy)met...	7.828	93	300026	39.540	ng		99
29) 2,4-Dichlorophenol	7.945	162	215476	41.114	ng		99
30) 1,2,4-Trichlorobenzene	8.022	180	243325	40.654	ng		99
31) Naphthalene	8.104	128	782884	40.850	ng		100
32) Benzoic acid	7.857	122	164754	41.864	ng		98
33) 4-Chloroaniline	8.151	127	252352	38.830	ng		99
34) Hexachlorobutadiene	8.216	225	150331	42.830	ng		99
35) Caprolactam	8.516	113	68685	40.128	ng		98
36) 4-Chloro-3-methylphenol	8.639	107	235016	41.805	ng		96
37) 2-Methylnaphthalene	8.792	142	500491	41.088	ng		100
38) 1-Methylnaphthalene	8.892	142	487831	40.770	ng		100
40) 1,2,4,5-Tetrachloroben...	8.957	216	227300	40.237	ng		99
41) Hexachlorocyclopentadiene	8.945	237	73377	43.983	ng		100
43) 2,4,6-Trichlorophenol	9.075	196	152514	41.248	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.122	196	165119	41.031	ng	98
46) 1,1'-Biphenyl	9.257	154	614766	39.699	ng	98
47) 2-Chloronaphthalene	9.280	162	479677	39.740	ng	100
48) 2-Nitroaniline	9.380	65	155868	41.055	ng	98
49) Acenaphthylene	9.698	152	674542	39.923	ng	100
50) Dimethylphthalate	9.557	163	543455	40.523	ng	100
51) 2,6-Dinitrotoluene	9.622	165	125020	40.149	ng	98
52) Acenaphthene	9.869	154	491940	40.755	ng	99
53) 3-Nitroaniline	9.792	138	127750	41.859	ng	98
54) 2,4-Dinitrophenol	9.898	184	64595	44.625	ng	93
55) Dibenzofuran	10.039	168	655150	40.548	ng	98
56) 4-Nitrophenol	9.975	139	101492	45.471	ng	96
57) 2,4-Dinitrotoluene	10.022	165	169109	41.946	ng	97
58) Fluorene	10.380	166	520788	41.554	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	135793	42.892	ng	99
60) Diethylphthalate	10.257	149	533471	41.025	ng	99
61) 4-Chlorophenyl-phenyle...	10.374	204	252040	41.170	ng	98
62) 4-Nitroaniline	10.404	138	131617	43.865	ng	96
63) Azobenzene	10.533	77	521272	40.048	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	92723	46.869	ng	99
66) n-Nitrosodiphenylamine	10.498	169	440088	40.682	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	156199	41.715	ng	97
68) Hexachlorobenzene	10.933	284	166289	41.866	ng	97
69) Atrazine	11.022	200	144588	39.975	ng	98
70) Pentachlorophenol	11.127	266	101747	43.745	ng	98
71) Phenanthrene	11.345	178	756115	42.056	ng	100
72) Anthracene	11.398	178	747273	42.420	ng	100
73) Carbazole	11.551	167	690858	44.227	ng	99
74) Di-n-butylphthalate	11.886	149	815911	43.100	ng	100
75) Fluoranthene	12.533	202	809964	45.626	ng	99
77) Benzidine	12.657	184	305172	39.082	ng	99
78) Pyrene	12.763	202	817992	34.986	ng	100
80) Butylbenzylphthalate	13.386	149	312910	38.308	ng	99
81) Benzo(a)anthracene	13.957	228	644165	38.325	ng	99
82) 3,3'-Dichlorobenzidine	13.921	252	212156	39.687	ng	99
83) Chrysene	13.992	228	601529	39.050	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	436692	42.145	ng	98
85) Di-n-octyl phthalate	14.574	149	716424	44.516	ng	100
87) Indeno(1,2,3-cd)pyrene	16.874	276	796465	43.334	ng	100
88) Benzo(b)fluoranthene	15.009	252	791291	44.175	ng	100
89) Benzo(k)fluoranthene	15.039	252	586341	36.950	ng	100
90) Benzo(a)pyrene	15.368	252	628247	41.504	ng	100
91) Dibenzo(a,h)anthracene	16.898	278	640257	43.298	ng	100
92) Benzo(g,h,i)perylene	17.315	276	672962	43.768	ng	100

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

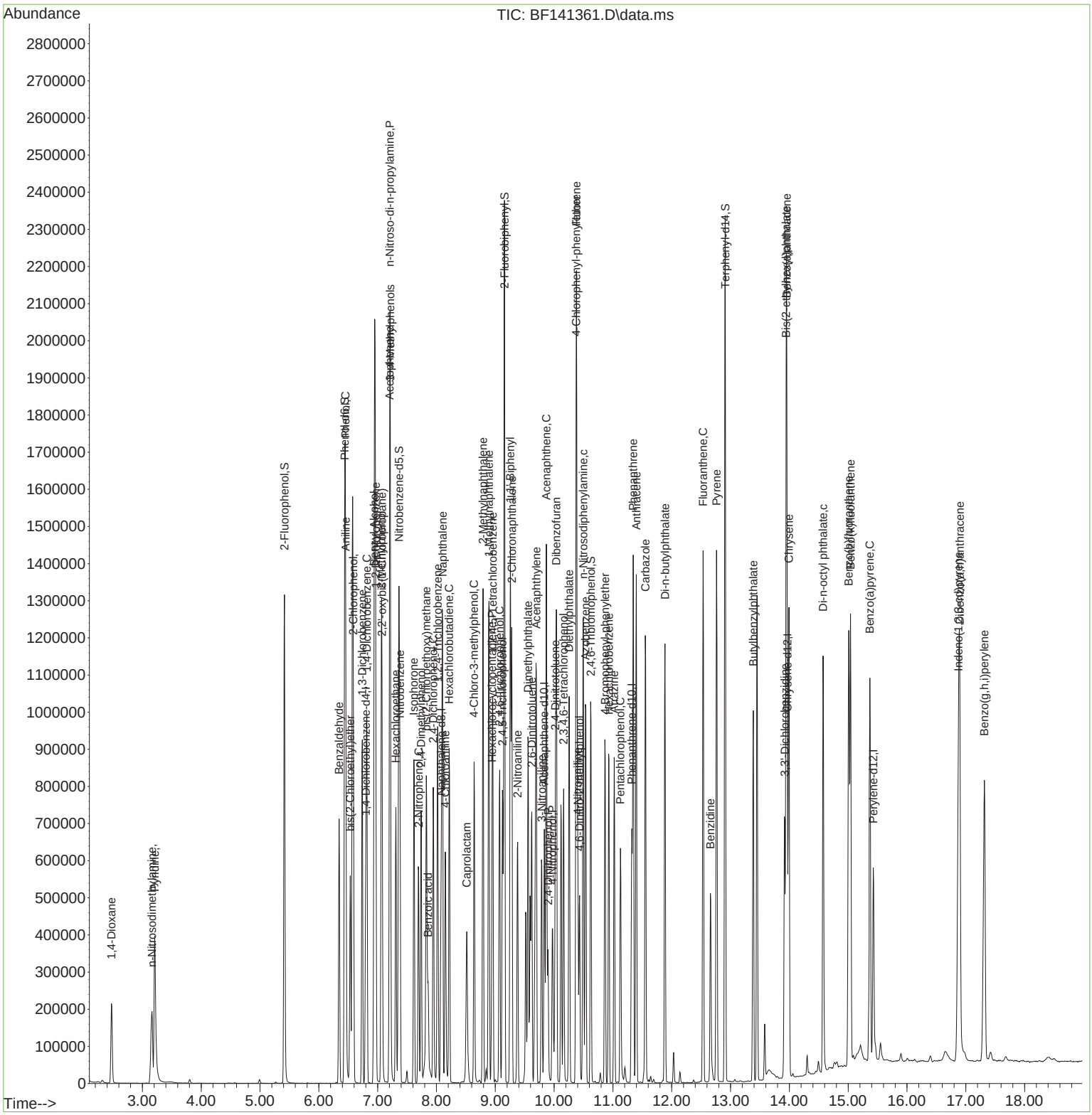
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

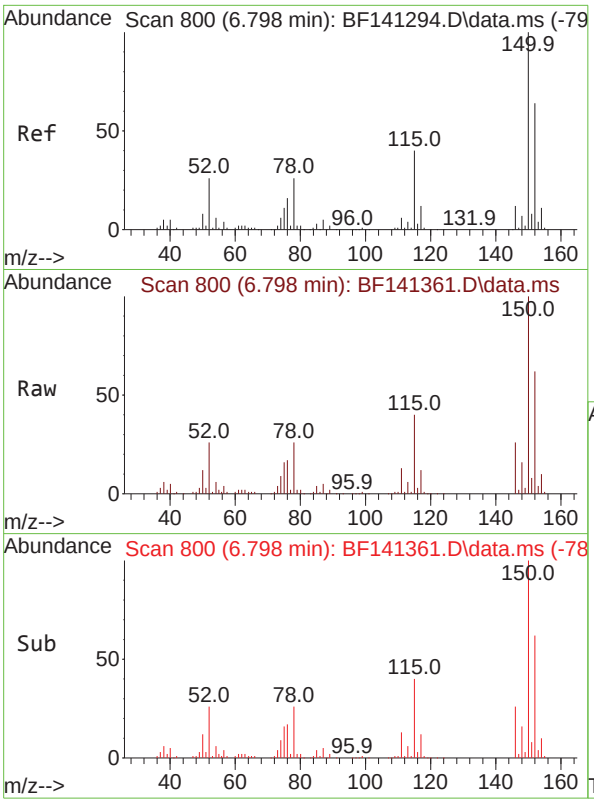
Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

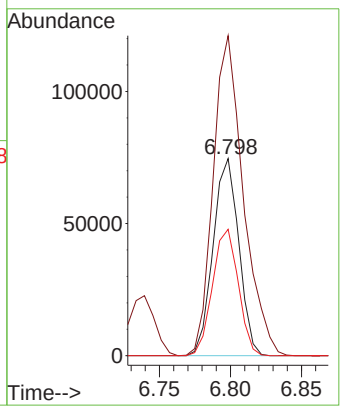




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:152 Resp: 9380

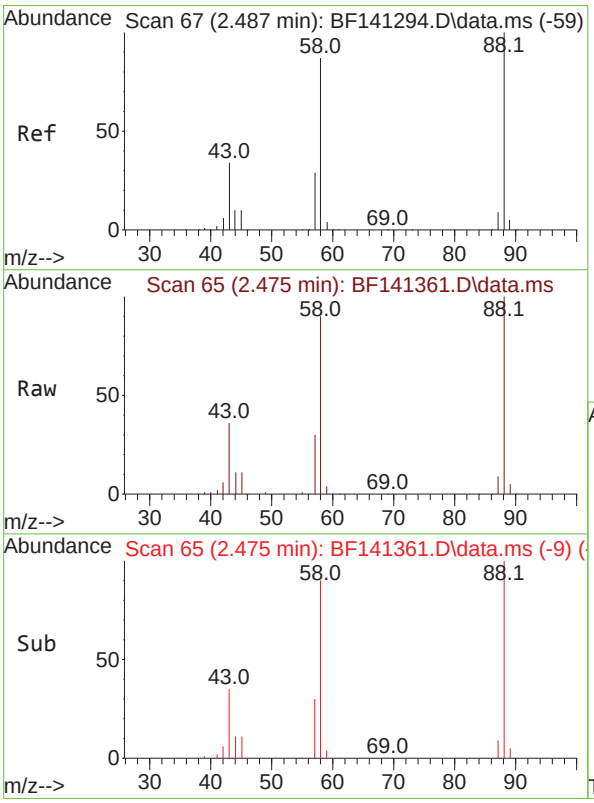
Ion	Ratio	Lower	Upper
152	100		
150	162.4	125.9	188.9
115	64.2	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

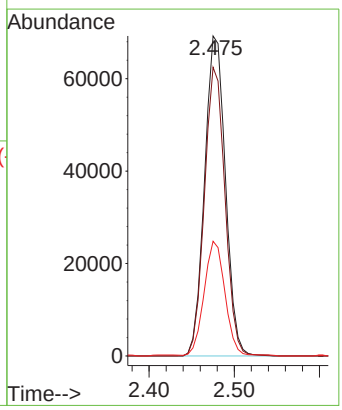
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

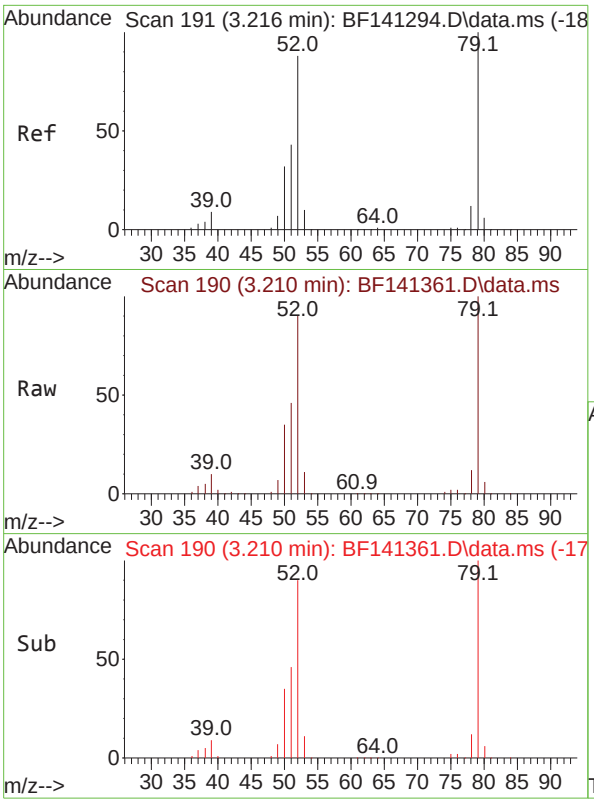


#2
1,4-Dioxane
Concen: 44.012 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.018 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 88 Resp: 118270

Ion	Ratio	Lower	Upper
88	100		
58	88.7	70.2	105.4
43	36.1	27.6	41.4

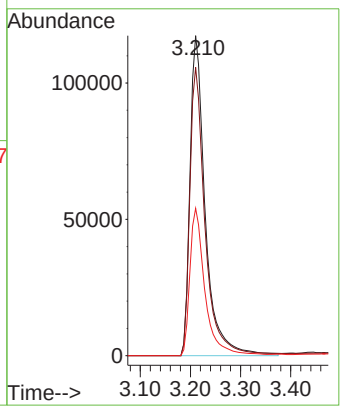




#3
Pyridine
Concen: 38.431 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 79 Resp: 24882

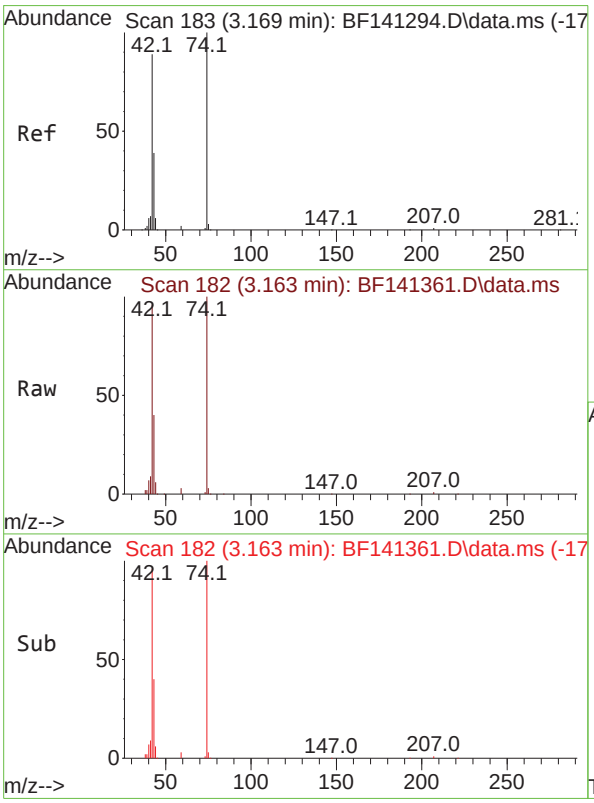
Ion	Ratio	Lower	Upper
79	100		
52	90.1	70.3	105.5
51	46.1	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

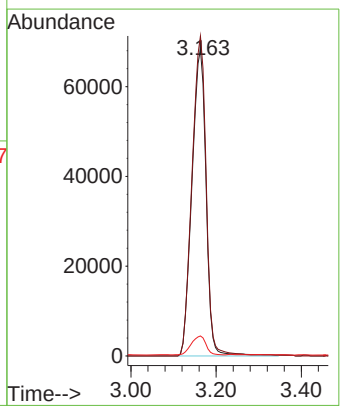
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

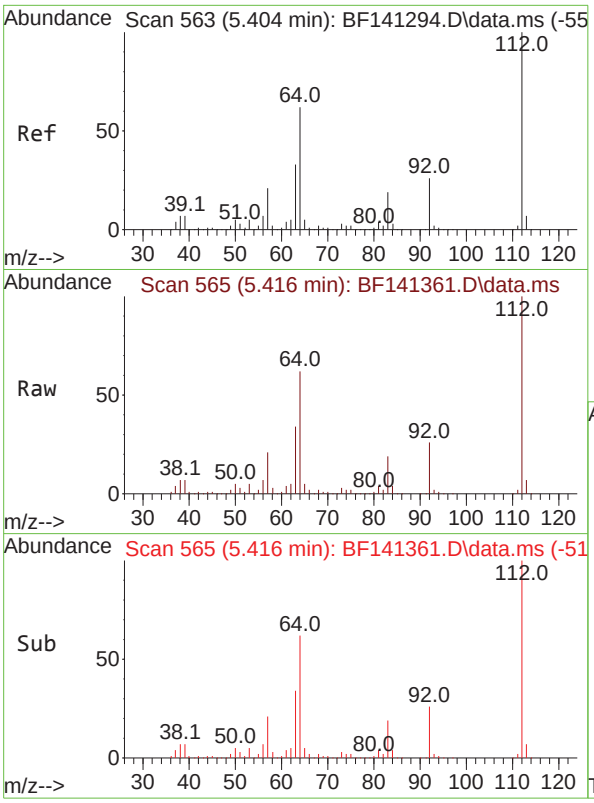


#4
n-Nitrosodimethylamine
Concen: 42.660 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.036 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 42 Resp: 157786

Ion	Ratio	Lower	Upper
42	100		
74	104.4	90.3	135.5
44	6.5	5.7	8.5





#5
2-Fluorophenol
Concen: 80.639 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

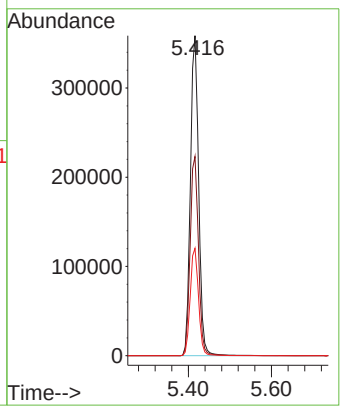
Tgt Ion:112 Resp: 49271

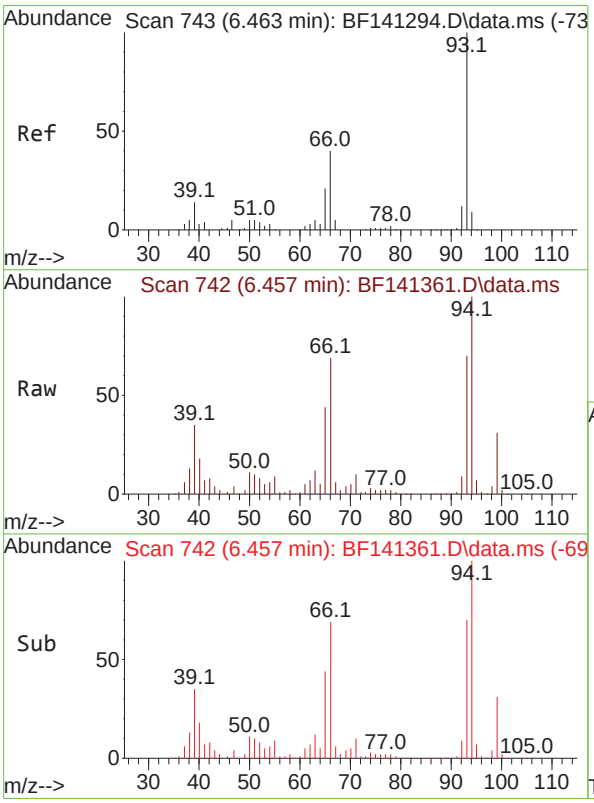
Ion	Ratio	Lower	Upper
112	100		
64	62.3	49.8	74.8
63	33.5	26.1	39.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

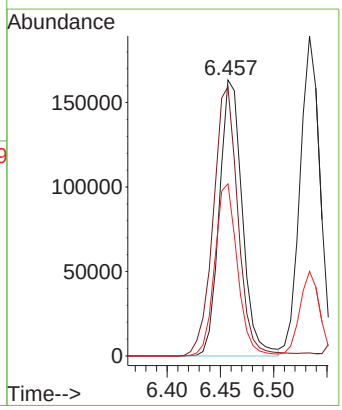


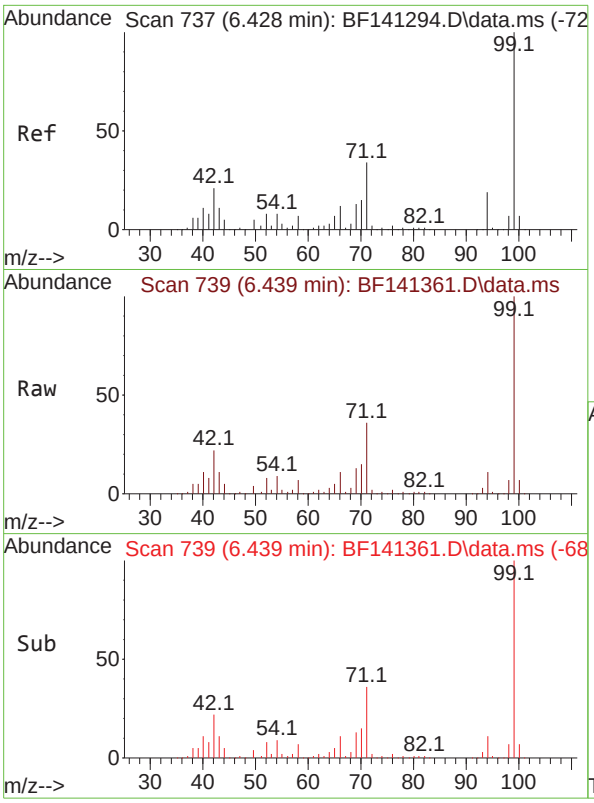


#6
Aniline
Concen: 37.112 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 93 Resp: 244181

Ion	Ratio	Lower	Upper
93	100		
66	97.6	32.5	48.7#
65	62.4	17.0	25.6#

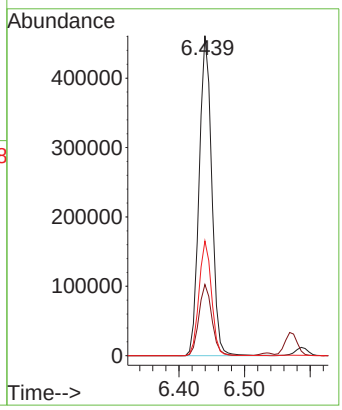




#7
Phenol-d6
Concen: 79.215 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 99 Resp: 61573

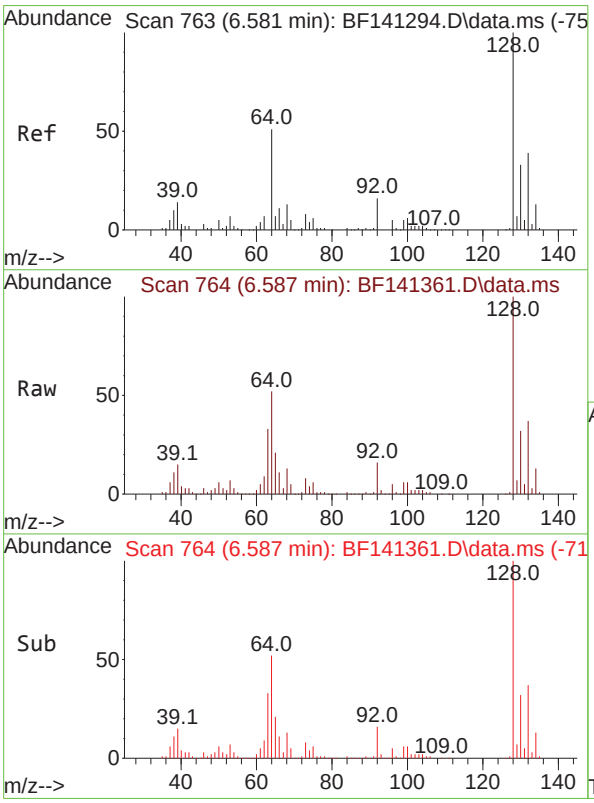
Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.1	25.7
71	35.8	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

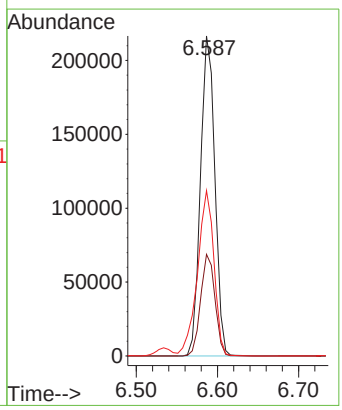
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

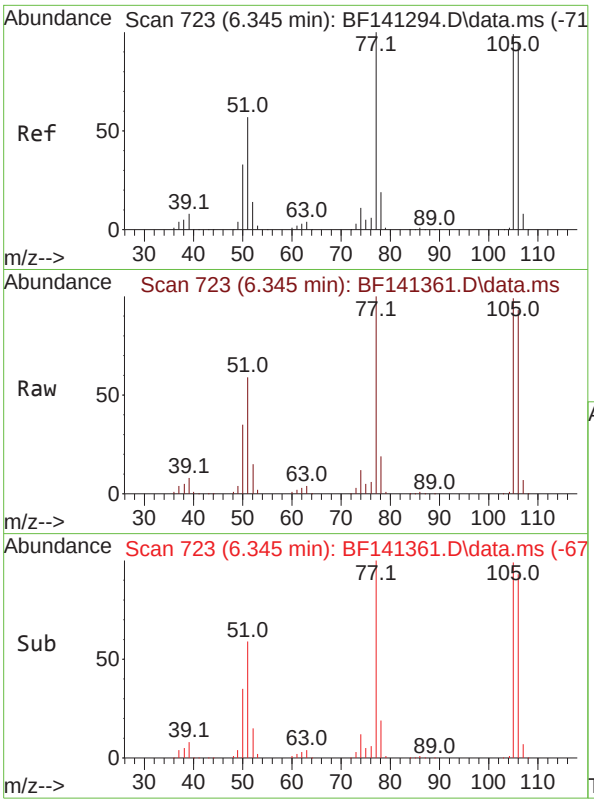


#8
2-Chlorophenol
Concen: 40.687 ng
RT: 6.587 min Scan# 764
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:128 Resp: 266456

Ion	Ratio	Lower	Upper
128	100		
130	31.8	12.5	52.5
64	51.7	32.9	72.9





#9
Benzaldehyde
Concen: 41.190 ng
RT: 6.345 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

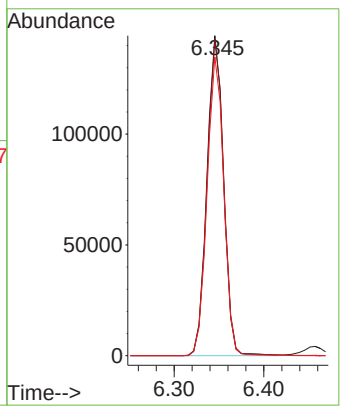
Tgt Ion: 77 Resp: 18545

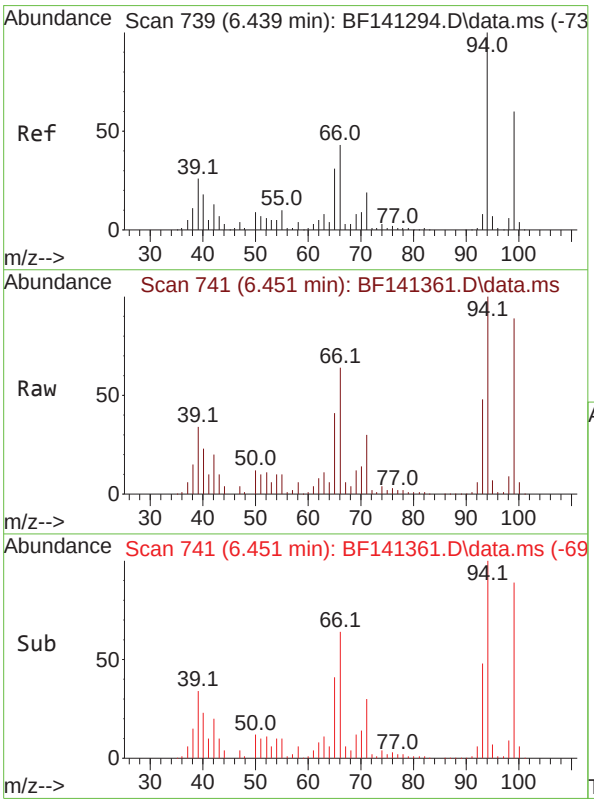
Ion	Ratio	Lower	Upper
77	100		
105	98.8	79.4	119.4
106	93.4	74.6	114.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

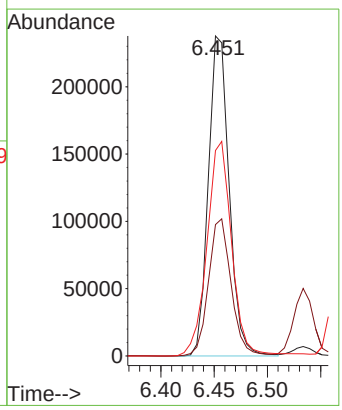


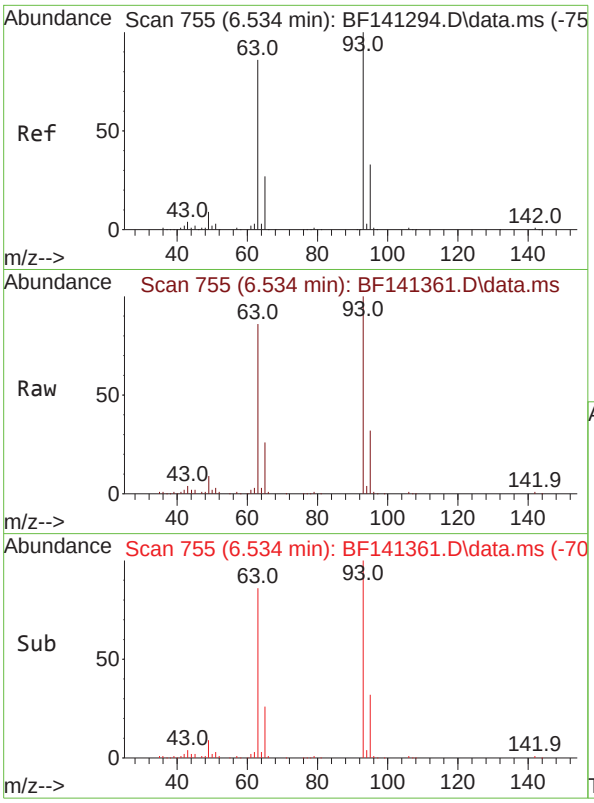


#10
Phenol
Concen: 39.294 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 94 Resp: 323771

Ion	Ratio	Lower	Upper
94	100		
65	41.1	10.8	50.8
66	64.2	23.3	63.3#





#11
bis(2-Chloroethyl)ether
Concen: 38.659 ng
RT: 6.534 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

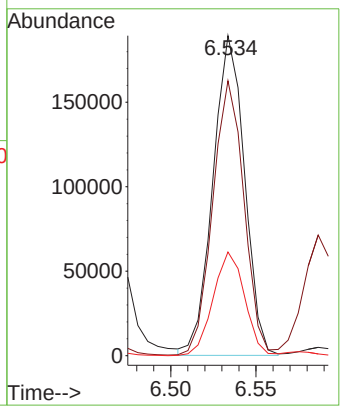
Tgt Ion: 93 Resp: 24423

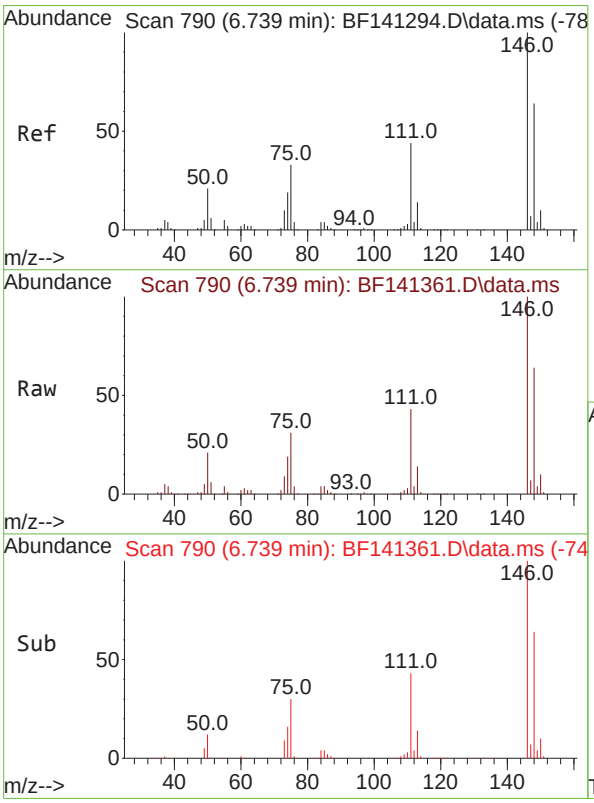
Ion	Ratio	Lower	Upper
93	100		
63	85.9	65.0	105.0
95	32.4	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

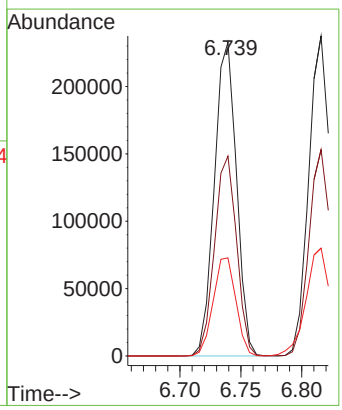


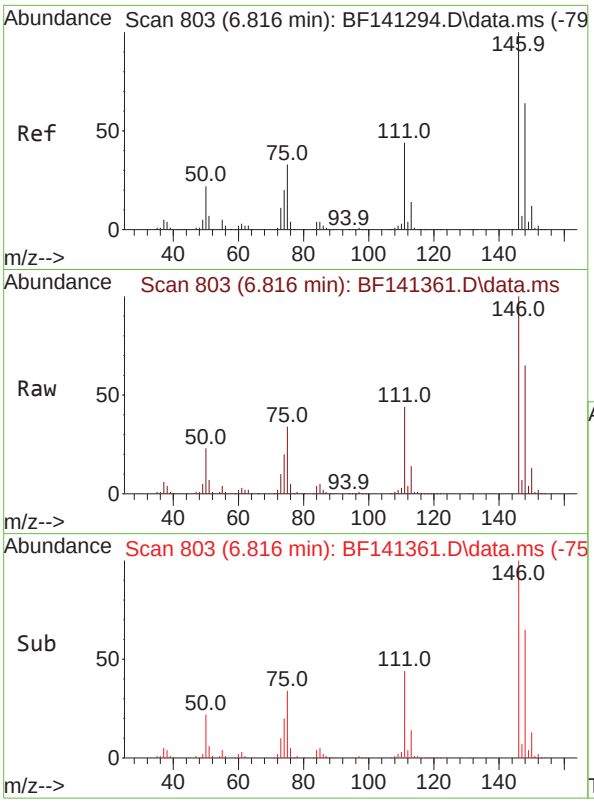


#12
1,3-Dichlorobenzene
Concen: 40.844 ng
RT: 6.739 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:146 Resp: 294934

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.2	76.8
75	31.3	26.2	39.4

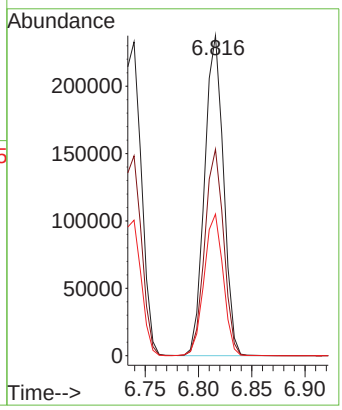




#13
1,4-Dichlorobenzene
Concen: 40.554 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:146 Resp: 29418

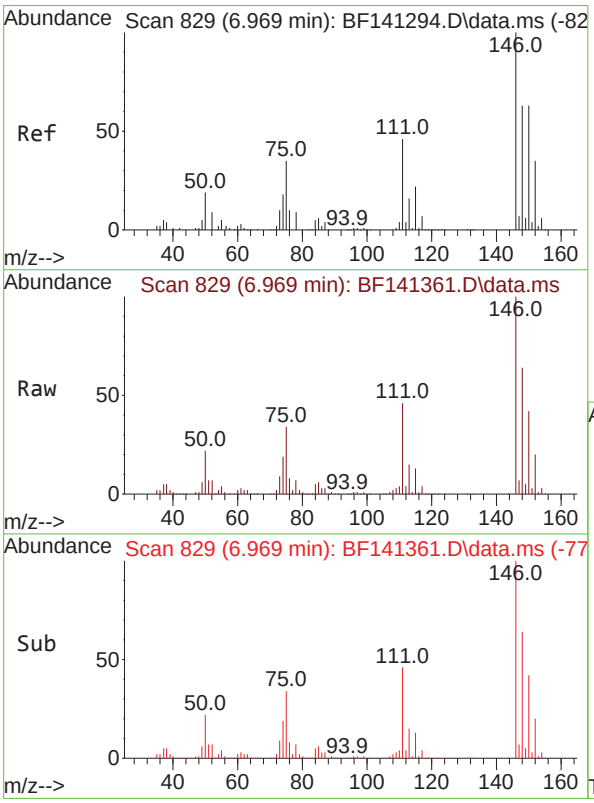
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	44.2	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

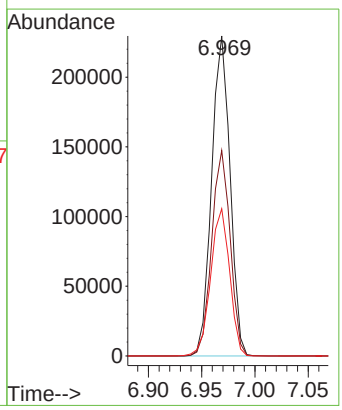
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

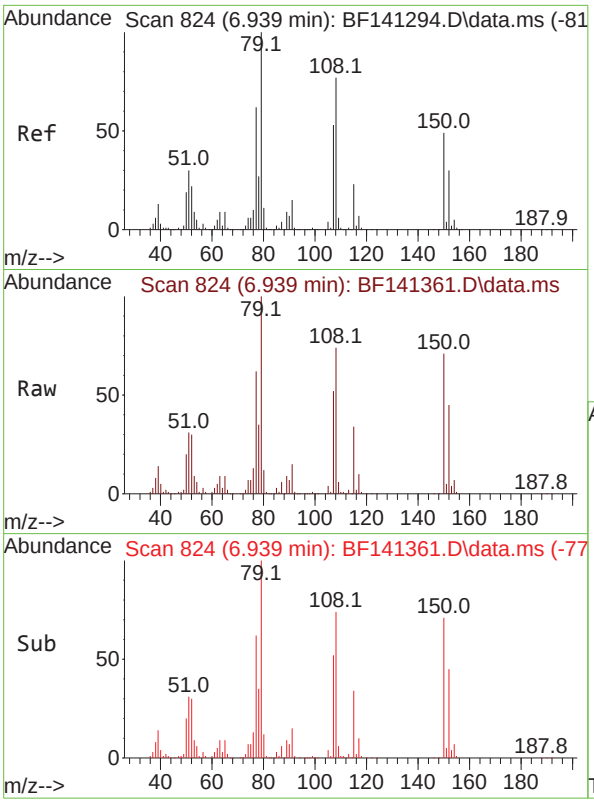


#14
1,2-Dichlorobenzene
Concen: 40.649 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:146 Resp: 276119

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.5	75.7
111	46.0	36.6	55.0





#15
Benzyl Alcohol
Concen: 42.844 ng
RT: 6.939 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

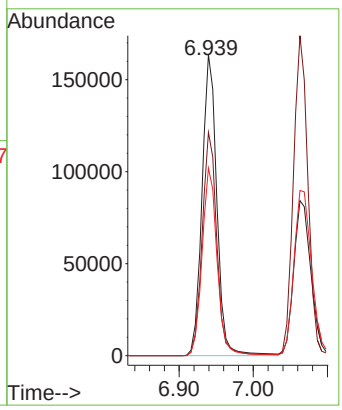
Tgt Ion: 79 Resp: 22758

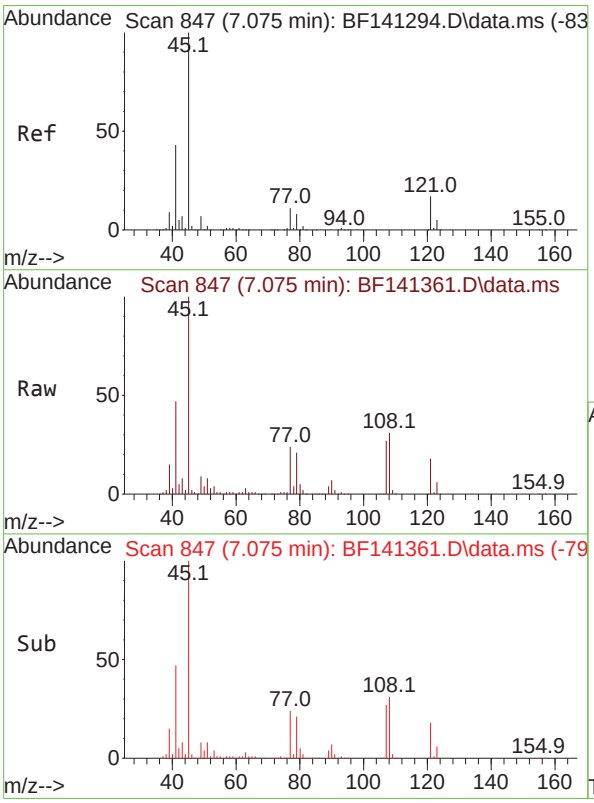
Ion	Ratio	Lower	Upper
79	100		
108	74.2	61.4	92.0
77	62.3	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

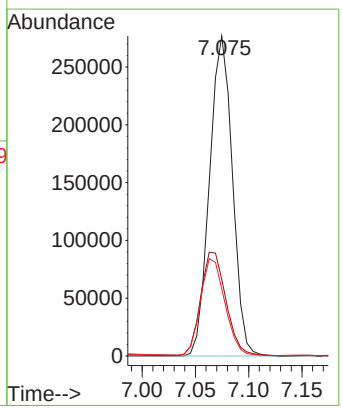


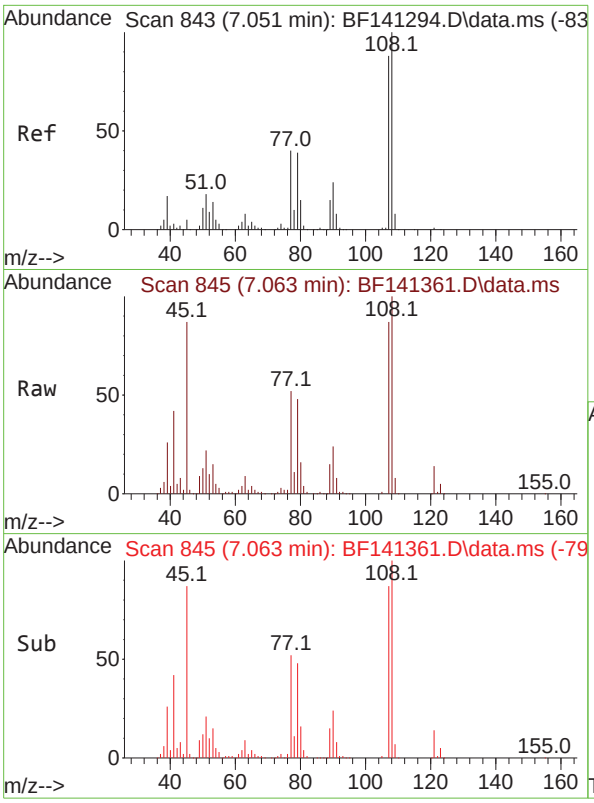


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.563 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 45 Resp: 412661

Ion	Ratio	Lower	Upper
45	100		
77	24.0	0.0	31.8
79	21.0	0.0	29.1





#17
2-Methylphenol
Concen: 38.689 ng
RT: 7.063 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

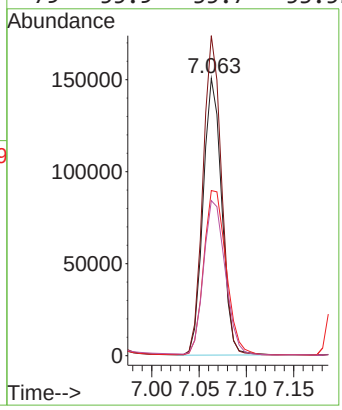
Tgt Ion:107 Resp: 20592

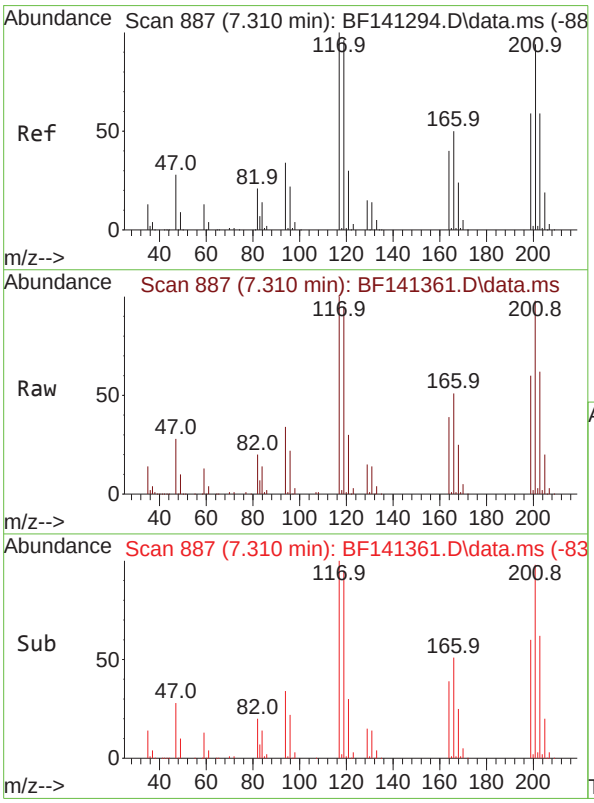
Ion	Ratio	Lower	Upper
107	100		
108	115.4	90.8	136.2
77	59.5	36.2	54.4#
79	55.9	35.7	53.5#

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

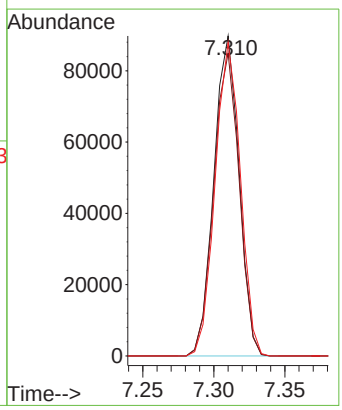


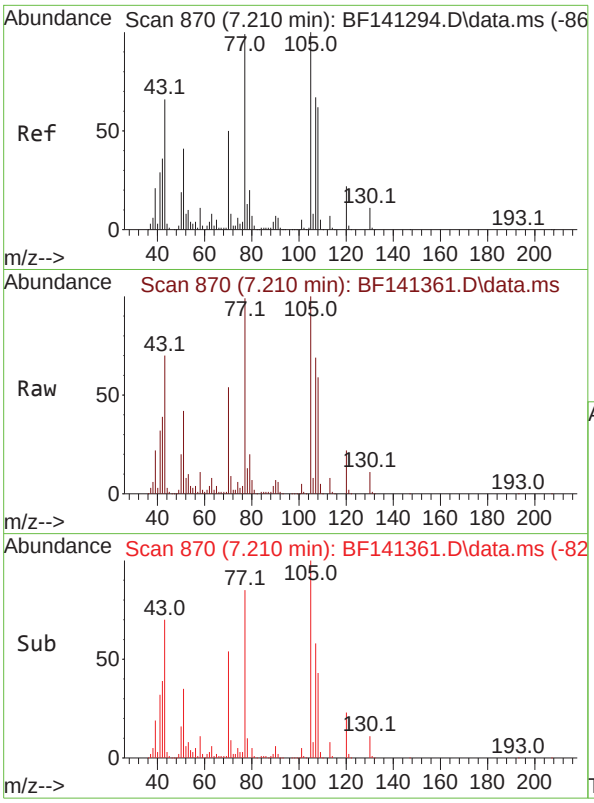


#18
Hexachloroethane
Concen: 41.383 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:117 Resp: 110745

Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.6	114.8
201	98.0	74.8	112.2

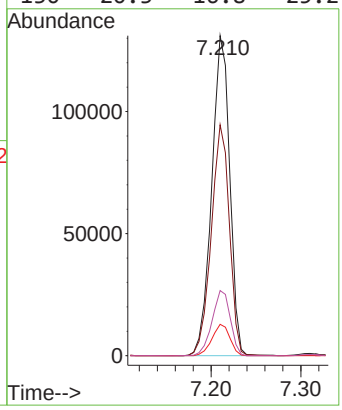




#19
n-Nitroso-di-n-propylamine
Concen: 39.542 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 70 Resp: 18263

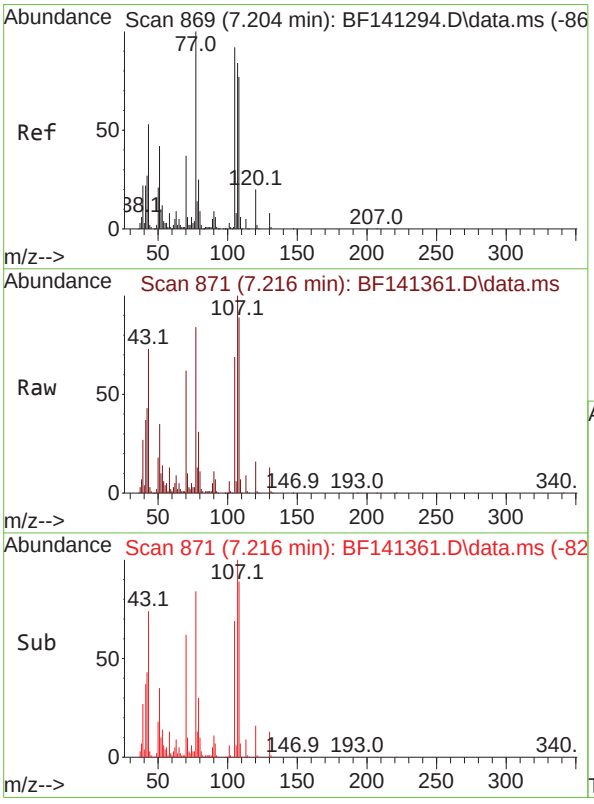
Ion	Ratio	Lower	Upper
70	100		
42	72.2	56.8	85.2
101	9.8	7.7	11.5
130	20.3	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

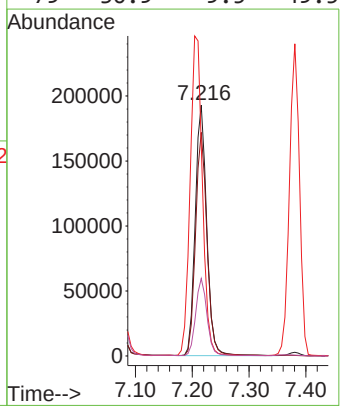
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

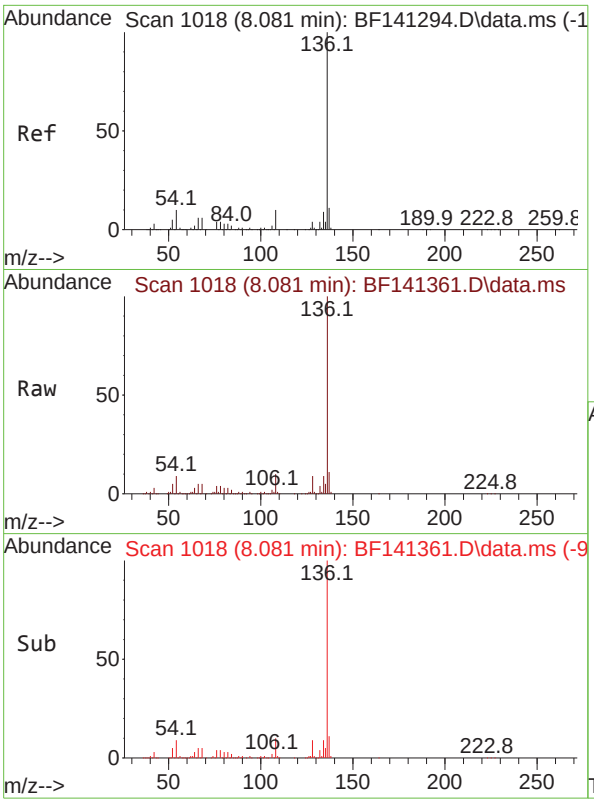


#20
3+4-Methylphenols
Concen: 41.520 ng
RT: 7.216 min Scan# 871
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:107 Resp: 271346

Ion	Ratio	Lower	Upper
107	100		
108	89.2	70.9	110.9
77	84.4	98.5	138.5#
79	30.9	9.5	49.5

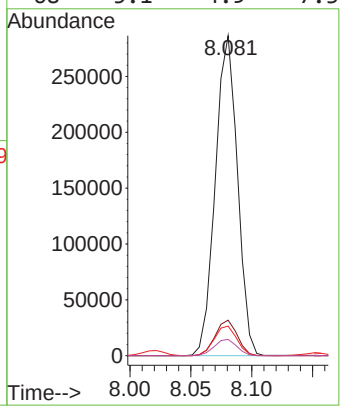




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:136 Resp: 36278

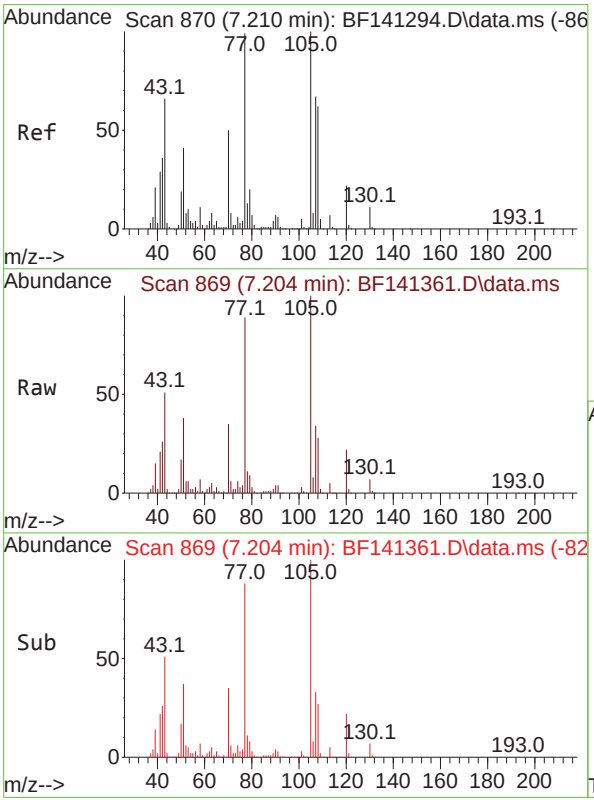
Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	9.3	7.8	11.8
68	5.1	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

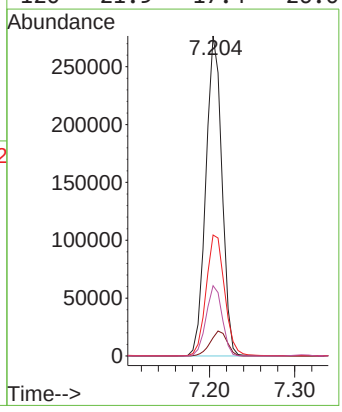
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

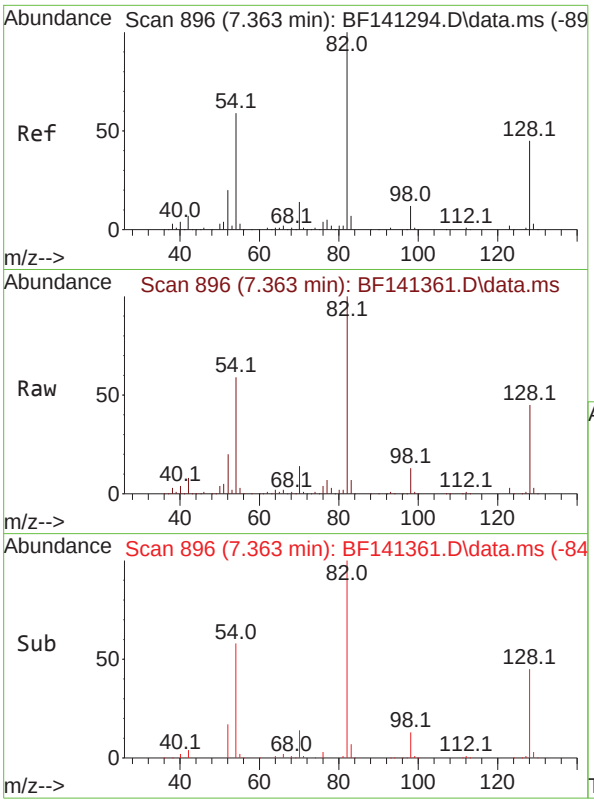


#22
Acetophenone
Concen: 42.153 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:105 Resp: 363495

Ion	Ratio	Lower	Upper
105	100		
71	5.7	6.8	10.2#
51	37.8	32.6	49.0
120	21.9	17.4	26.0

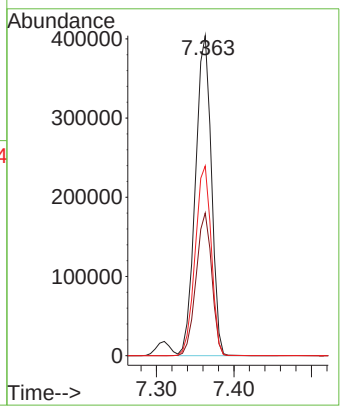




#23
Nitrobenzene-d5
Concen: 83.781 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 82 Resp: 57656

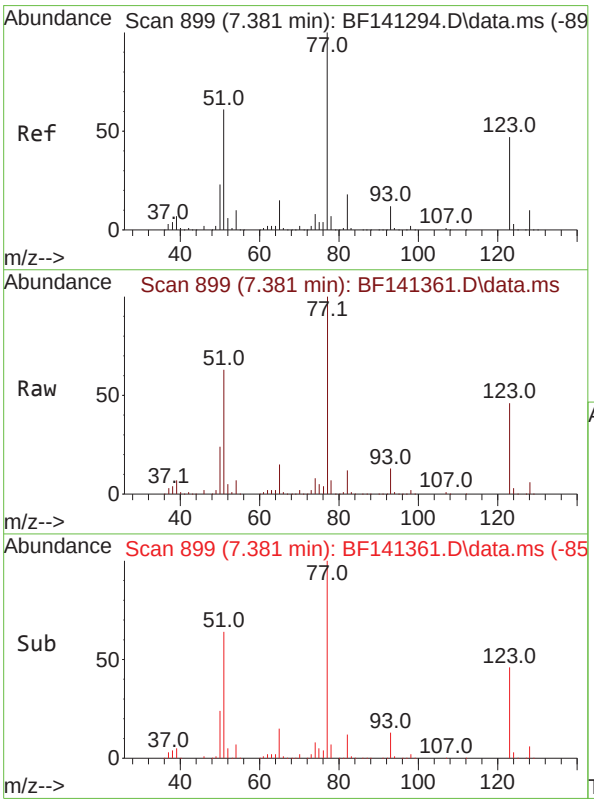
Ion	Ratio	Lower	Upper
82	100		
128	44.6	35.7	53.5
54	59.3	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

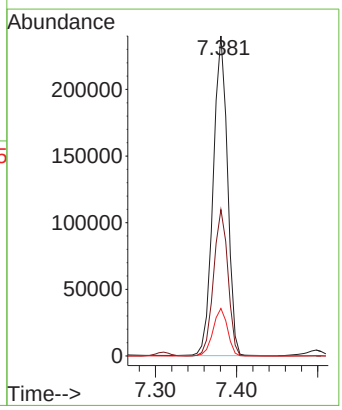
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

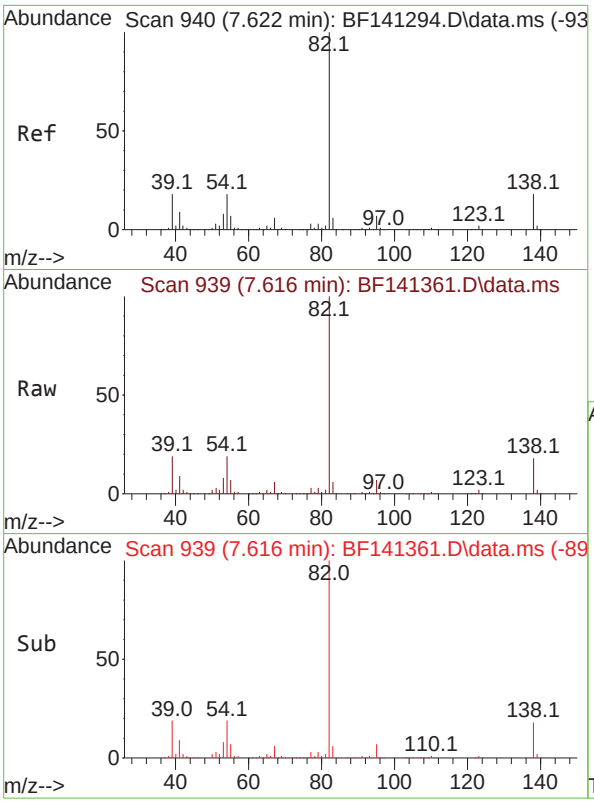


#24
Nitrobenzene
Concen: 41.381 ng
RT: 7.381 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 77 Resp: 295113

Ion	Ratio	Lower	Upper
77	100		
123	45.8	37.3	55.9
65	14.9	11.8	17.6

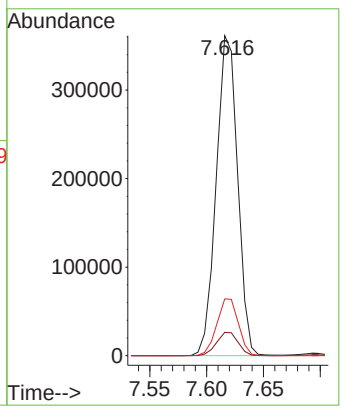




#25
Isophorone
Concen: 39.825 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 82 Resp: 47375

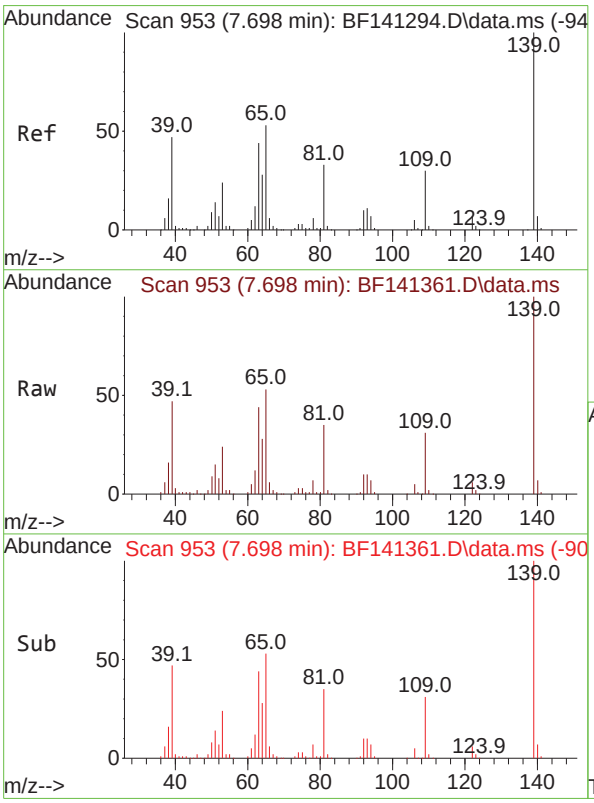
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.6
138	17.7	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

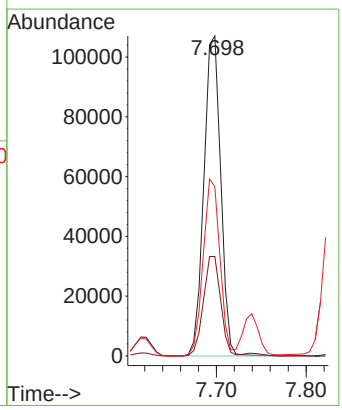
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

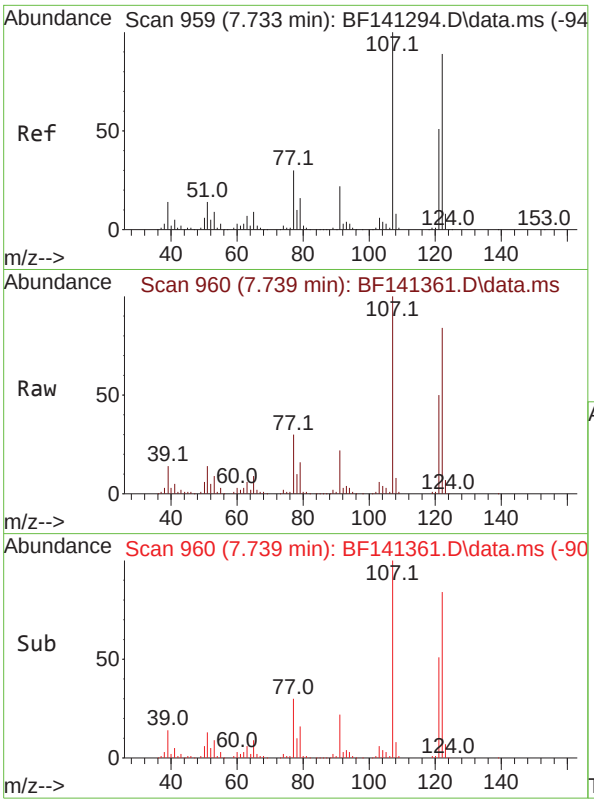


#26
2-Nitrophenol
Concen: 41.467 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:139 Resp: 139470

Ion	Ratio	Lower	Upper
139	100		
109	31.1	23.8	35.6
65	52.9	42.2	63.4

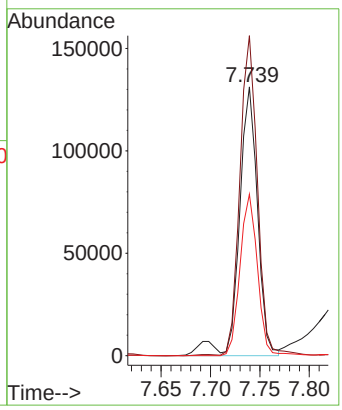




#27
2,4-Dimethylphenol
Concen: 39.629 ng m
RT: 7.739 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:122 Resp: 16965

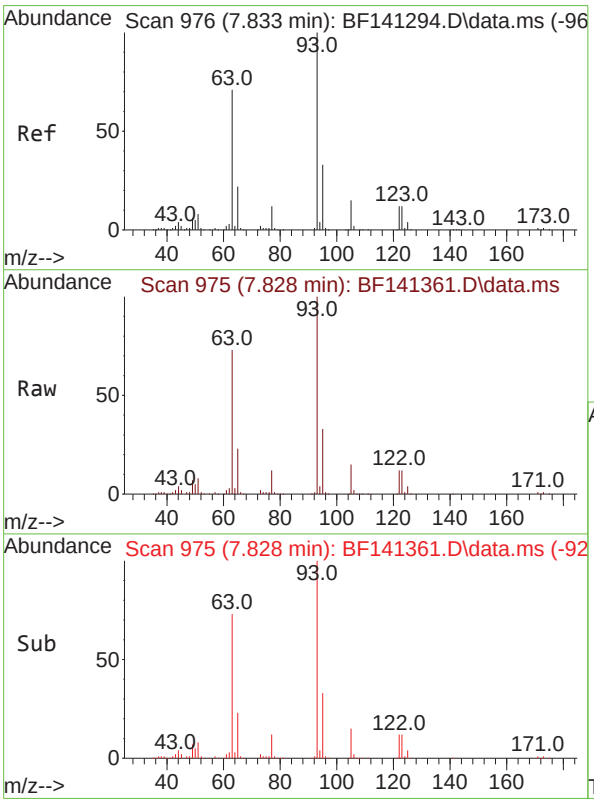
Ion	Ratio	Lower	Upper
122	100		
107	119.1	89.9	134.9
121	60.1	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

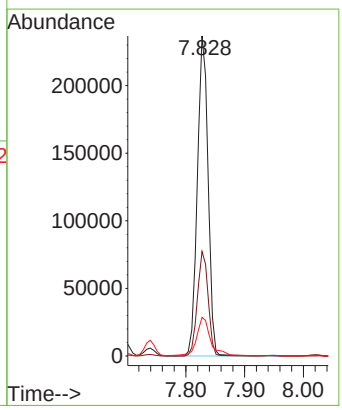
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

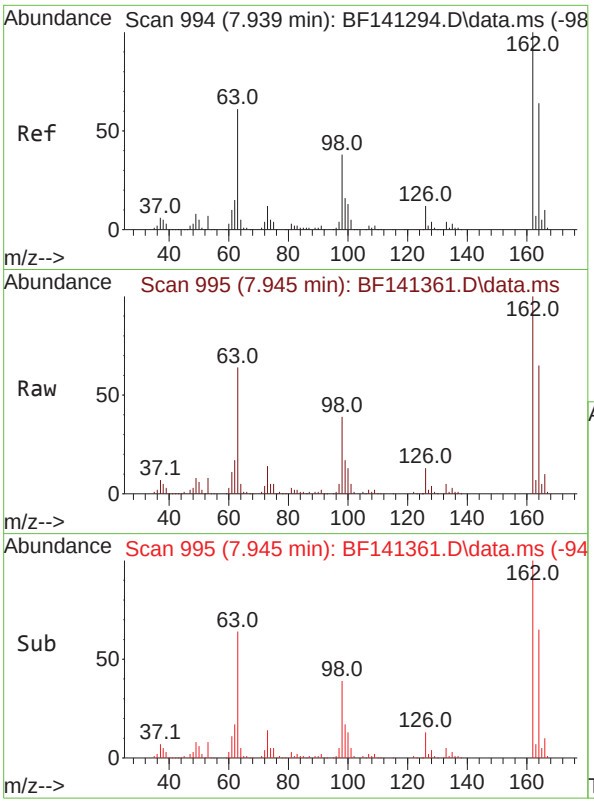


#28
bis(2-Chloroethoxy)methane
Concen: 39.540 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 93 Resp: 300026

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.2
123	12.1	10.2	15.4

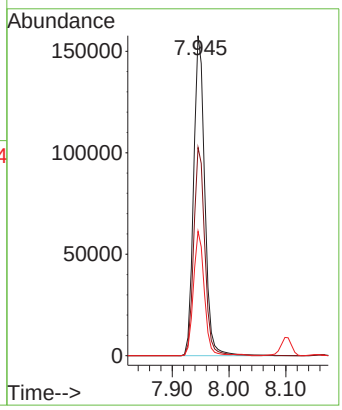




#29
2,4-Dichlorophenol
Concen: 41.114 ng
RT: 7.945 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:162 Resp: 21547

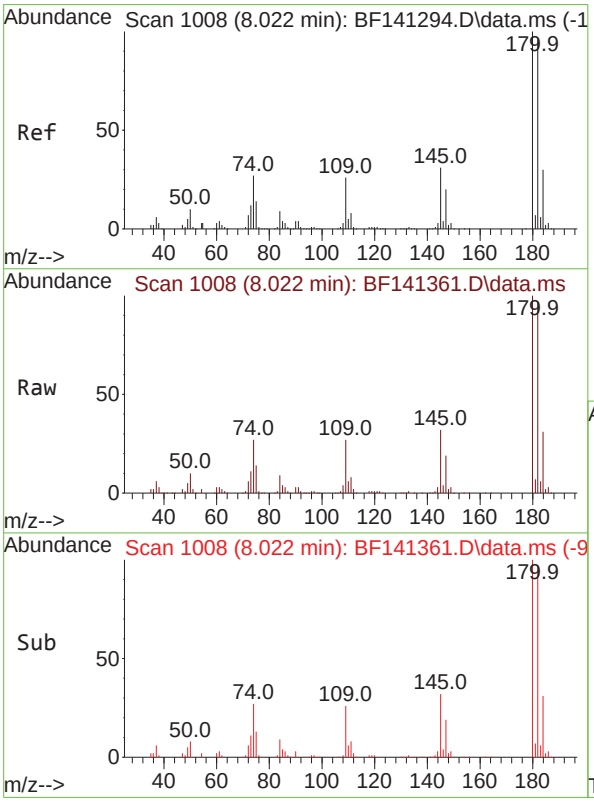
Ion	Ratio	Lower	Upper
162	100		
164	65.1	44.2	84.2
98	38.9	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

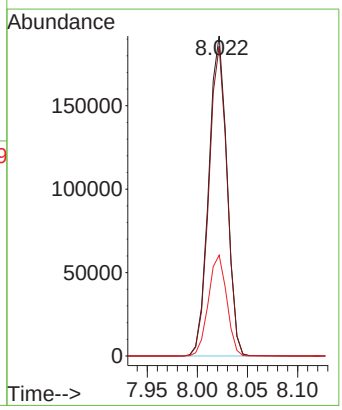
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

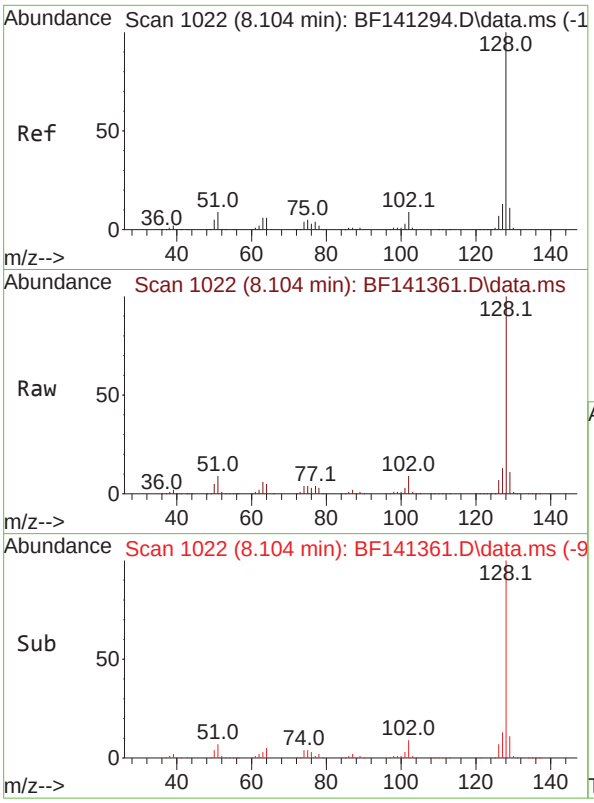


#30
1,2,4-Trichlorobenzene
Concen: 40.654 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:180 Resp: 243325

Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.4	114.6
145	31.5	24.9	37.3





#31
Naphthalene
Concen: 40.850 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

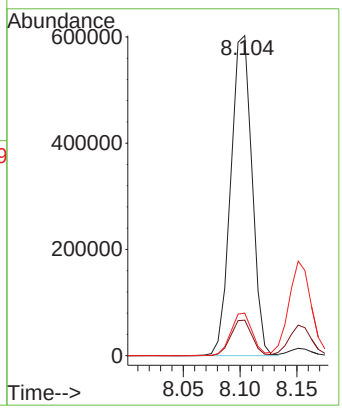
Tgt Ion:128 Resp: 78288

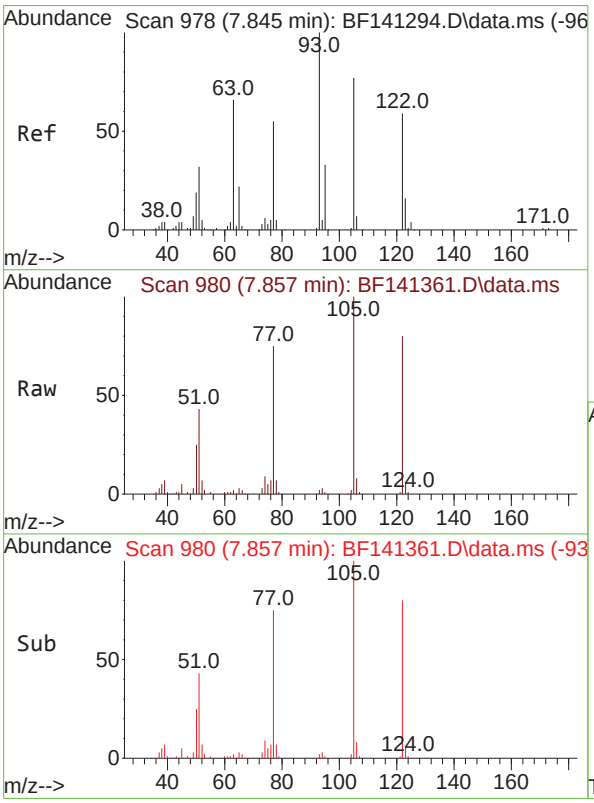
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.3	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

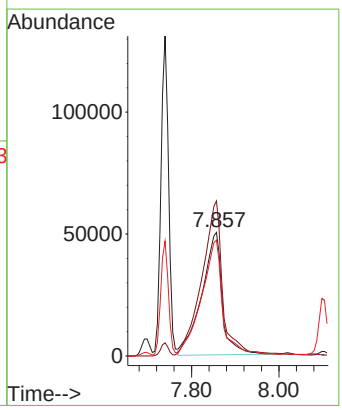


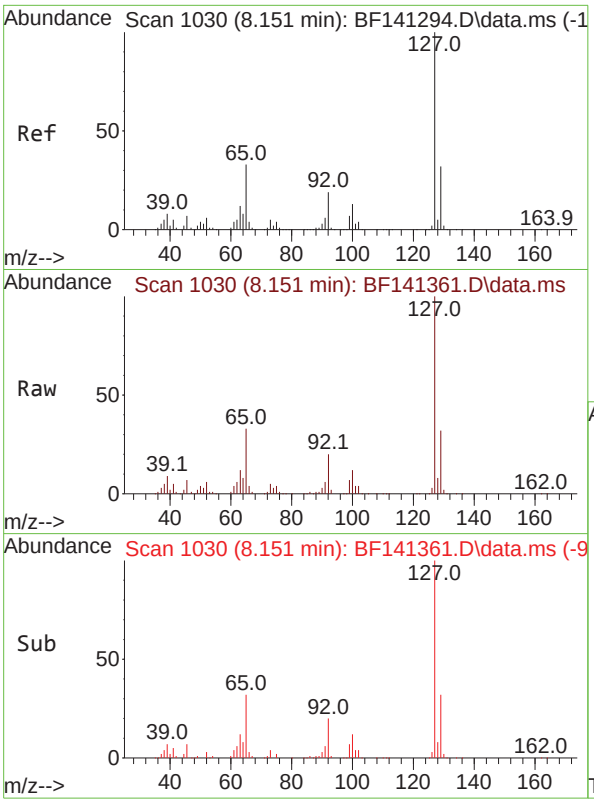


#32
Benzoic acid
Concen: 41.864 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.024 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:122 Resp: 164754

Ion	Ratio	Lower	Upper
122	100		
105	125.5	103.4	143.4
77	93.8	70.9	110.9

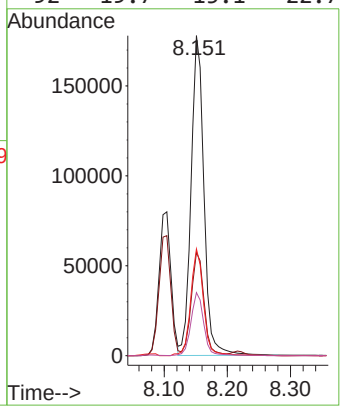




#33
4-Chloroaniline
Concen: 38.830 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:127 Resp: 25235

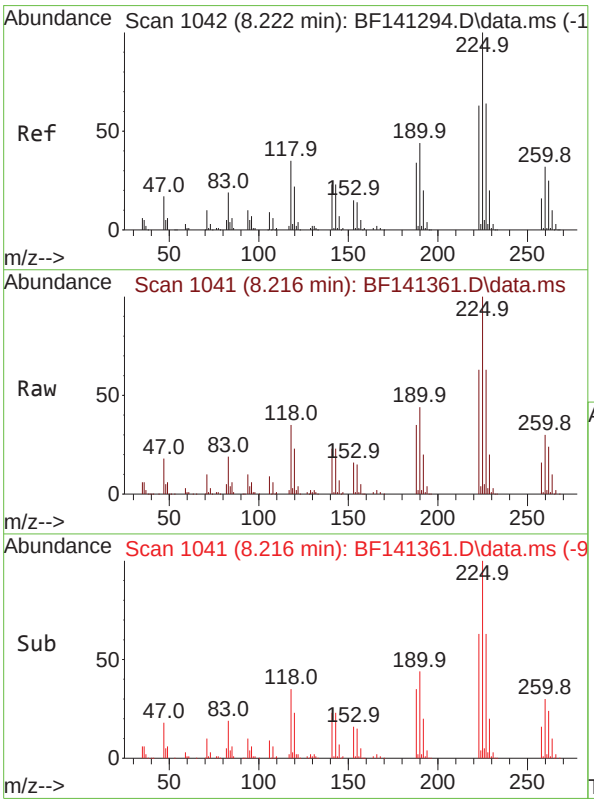
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	33.4	26.4	39.6
92	19.7	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

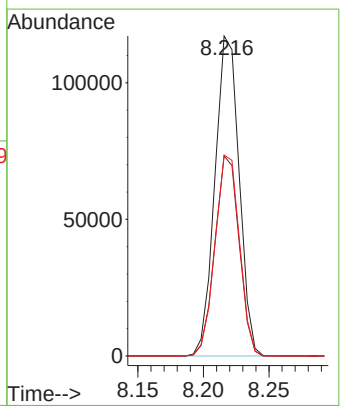
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

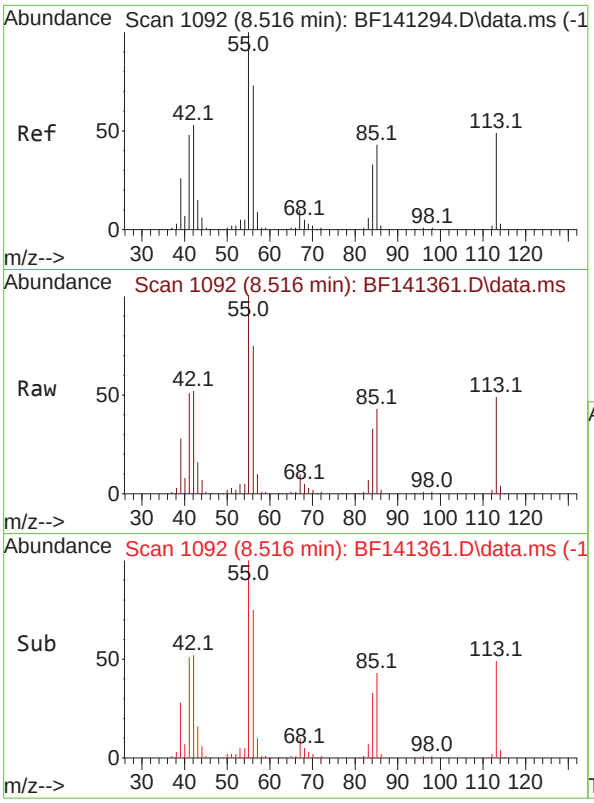


#34
Hexachlorobutadiene
Concen: 42.830 ng
RT: 8.216 min Scan# 1041
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:225 Resp: 150331

Ion	Ratio	Lower	Upper
225	100		
223	62.5	50.4	75.6
227	62.8	51.3	76.9





#35
Caprolactam
Concen: 40.128 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

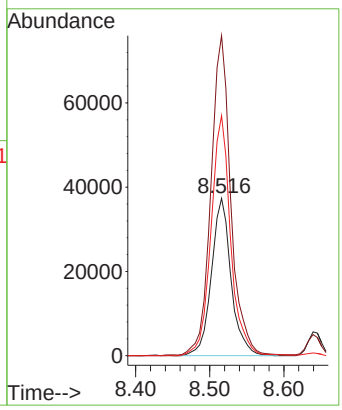
Tgt Ion:113 Resp: 6868

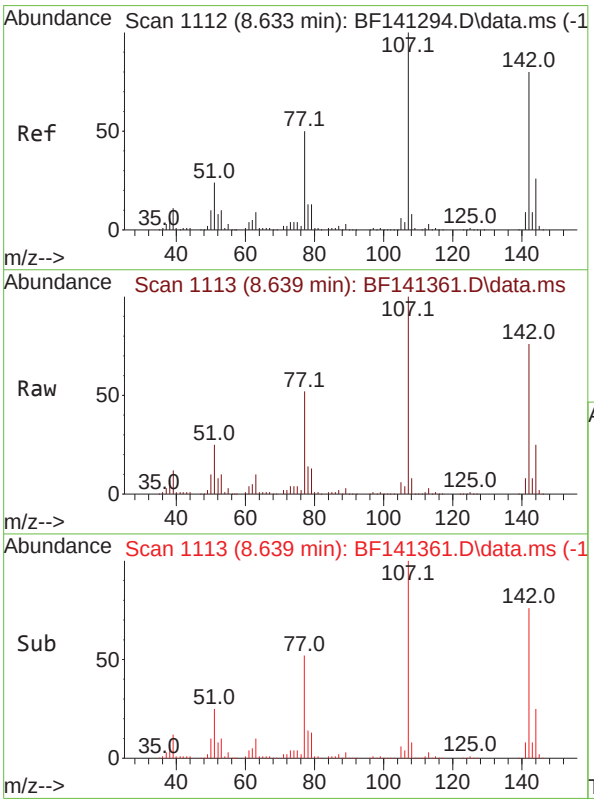
Ion	Ratio	Lower	Upper
113	100		
55	203.4	182.9	222.9
56	152.5	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

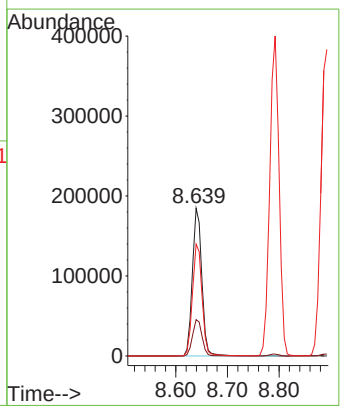


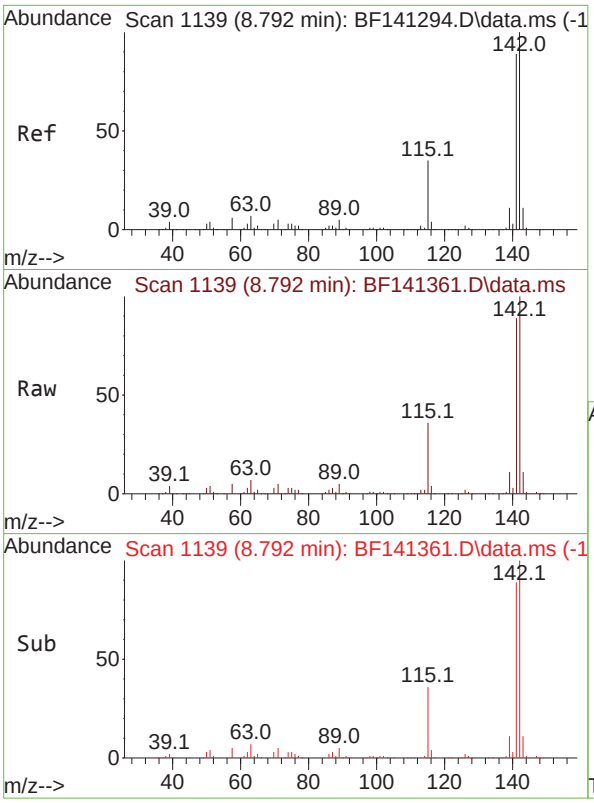


#36
4-Chloro-3-methylphenol
Concen: 41.805 ng
RT: 8.639 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:107 Resp: 235016

Ion	Ratio	Lower	Upper
107	100		
144	24.6	20.7	31.1
142	75.8	63.8	95.8





#37
2-Methylnaphthalene
Concen: 41.088 ng
RT: 8.792 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

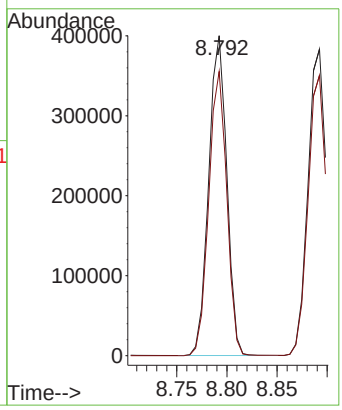
Tgt Ion:142 Resp: 50049

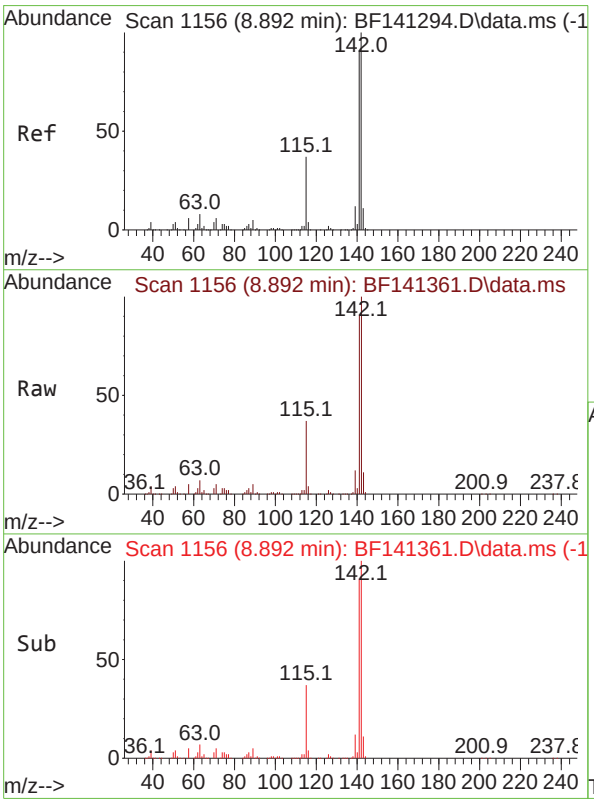
Ion	Ratio	Lower	Upper
142	100		
141	88.8	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

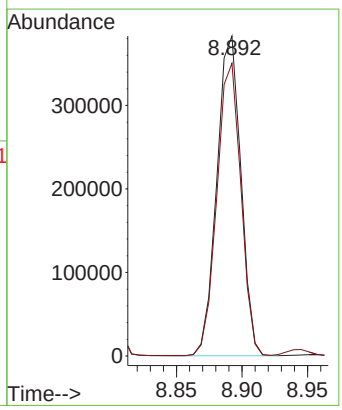


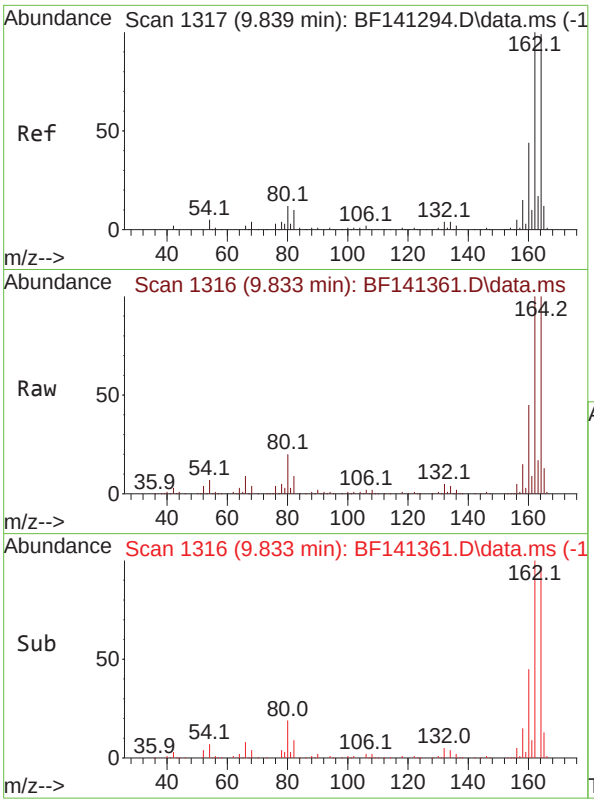


#38
1-Methylnaphthalene
Concen: 40.770 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:142 Resp: 487831

Ion	Ratio	Lower	Upper
142	100		
141	91.4	73.2	109.8

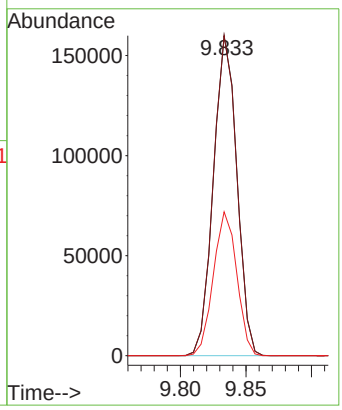




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:164 Resp: 19856

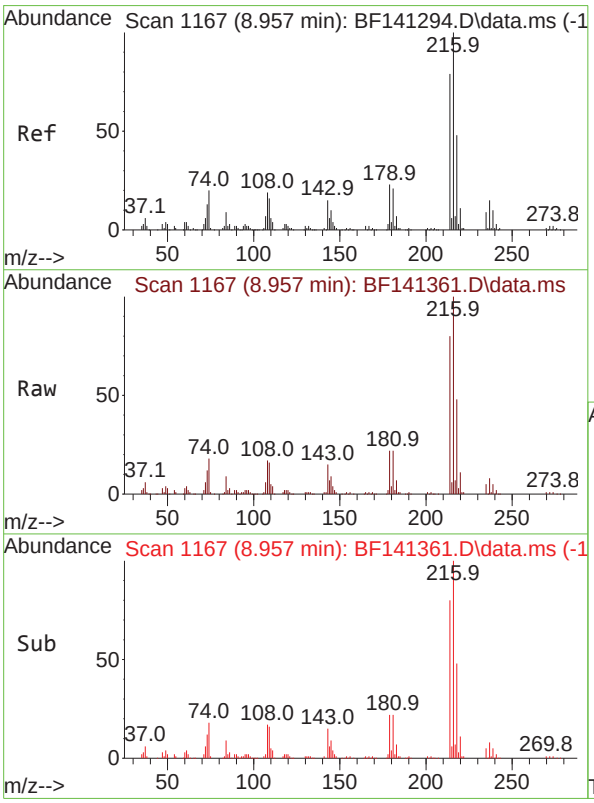
Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.6	121.0
160	45.0	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

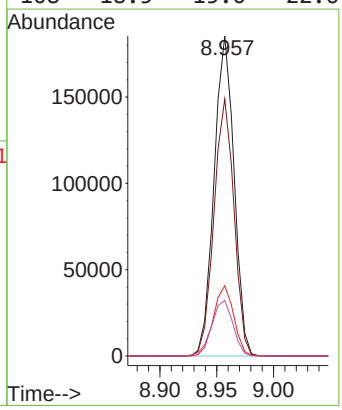
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

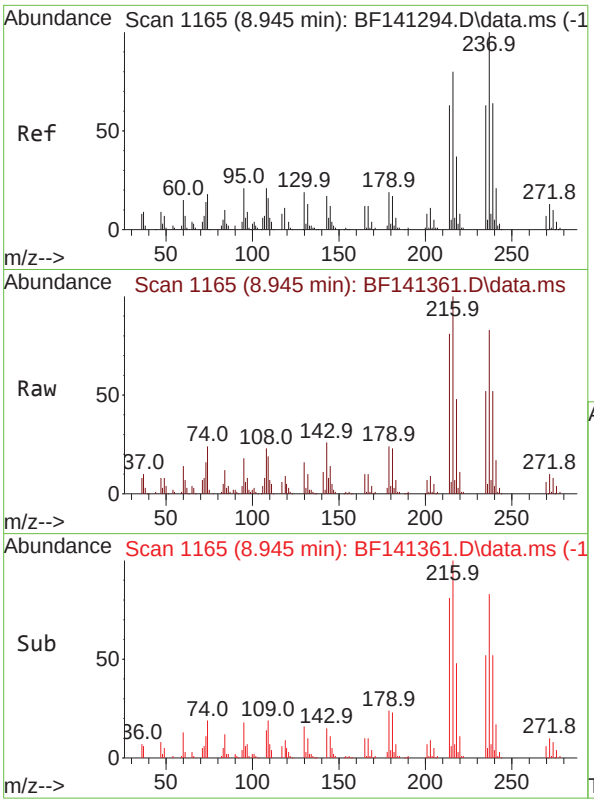


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.237 ng
RT: 8.957 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:216 Resp: 227300

Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.2	94.8
179	22.1	17.8	26.8
108	18.5	15.0	22.6

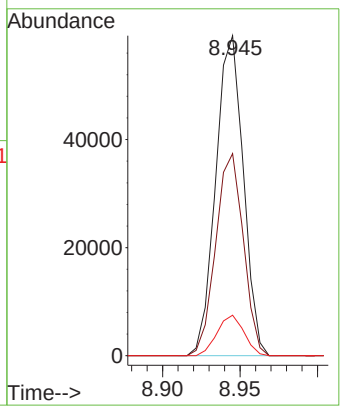




#41
Hexachlorocyclopentadiene
Concen: 43.983 ng
RT: 8.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:237 Resp: 7337

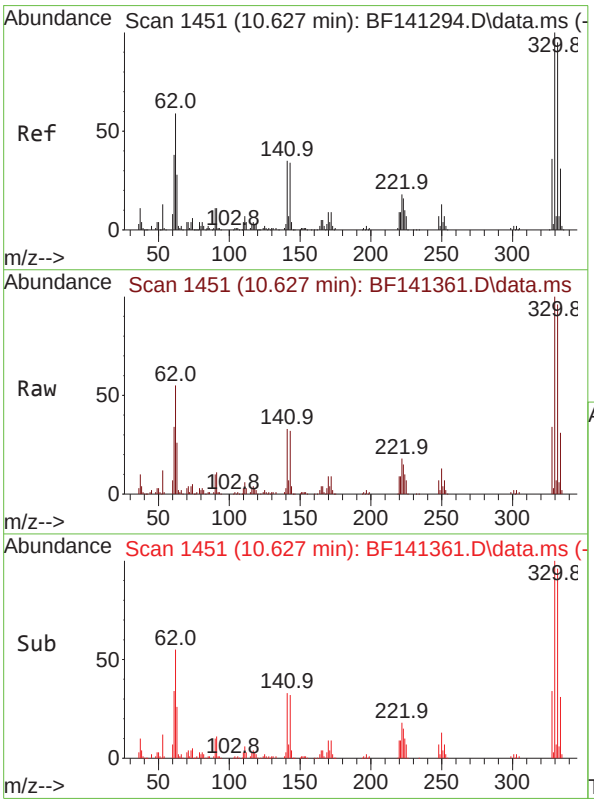
Ion	Ratio	Lower	Upper
237	100		
235	63.1	42.9	82.9
272	12.6	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

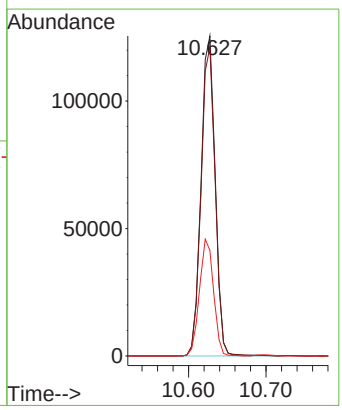
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

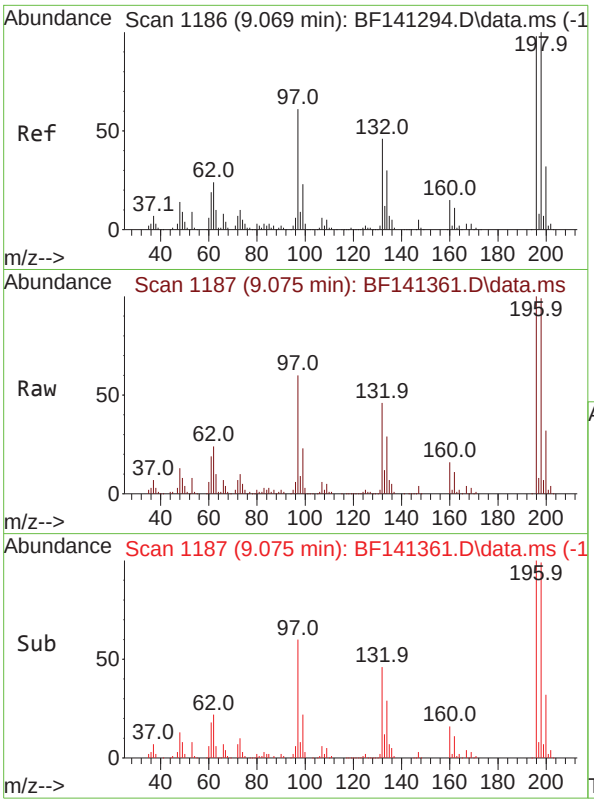


#42
2,4,6-Tribromophenol
Concen: 87.321 ng
RT: 10.627 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:330 Resp: 158958

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.1	114.1
141	36.5	28.8	43.2

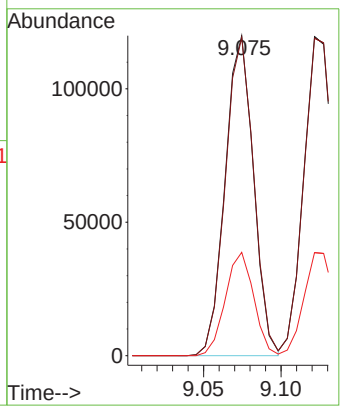




#43
2,4,6-Trichlorophenol
Concen: 41.248 ng
RT: 9.075 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:196 Resp: 15251

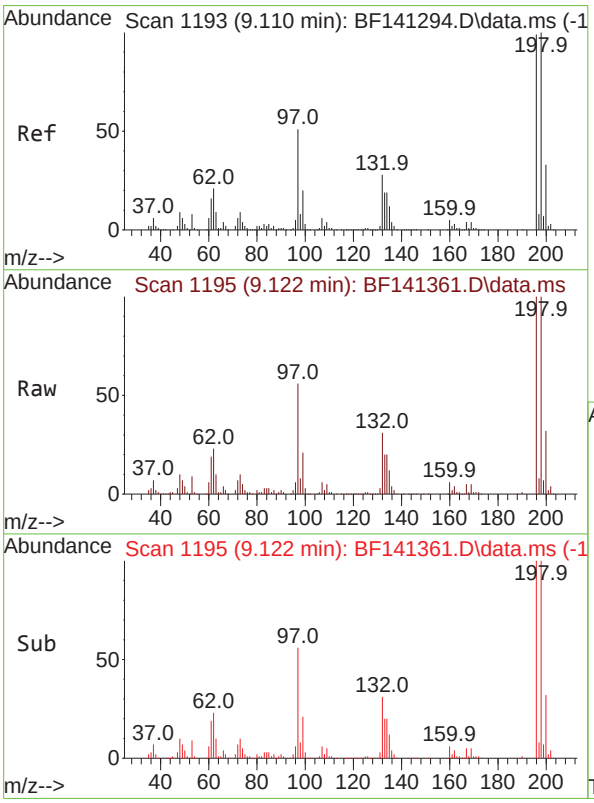
Ion	Ratio	Lower	Upper
196	100		
198	99.4	81.8	122.6
200	32.3	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

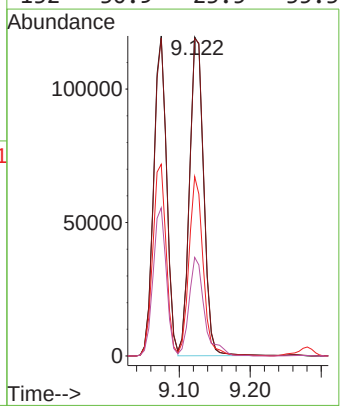
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

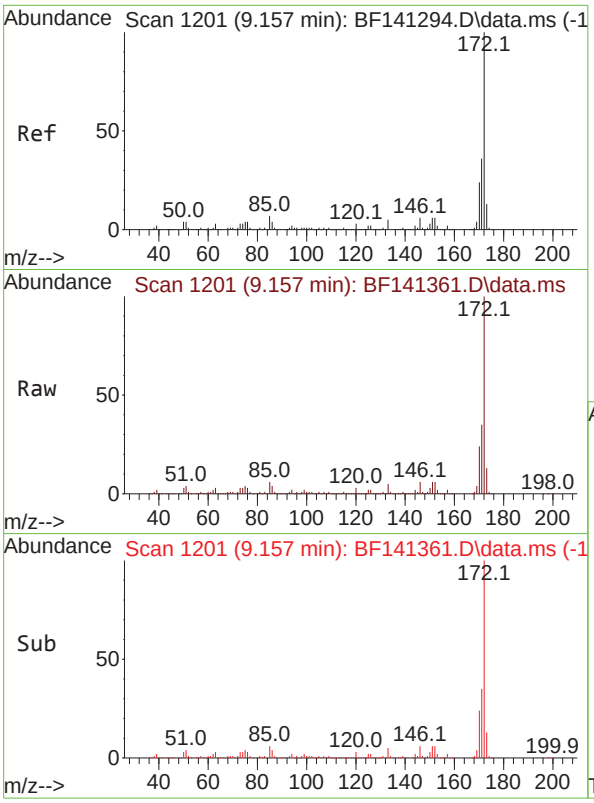


#44
2,4,5-Trichlorophenol
Concen: 41.031 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:196 Resp: 165119

Ion	Ratio	Lower	Upper
196	100		
198	99.5	80.5	120.7
97	56.2	42.8	64.2
132	30.9	23.5	35.3





#45
2-Fluorobiphenyl
Concen: 80.940 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

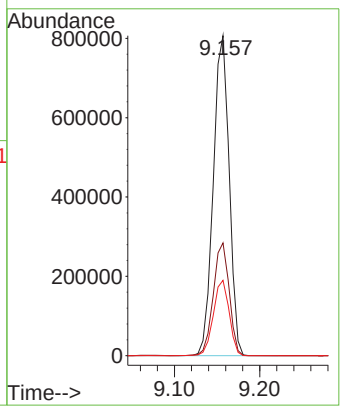
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

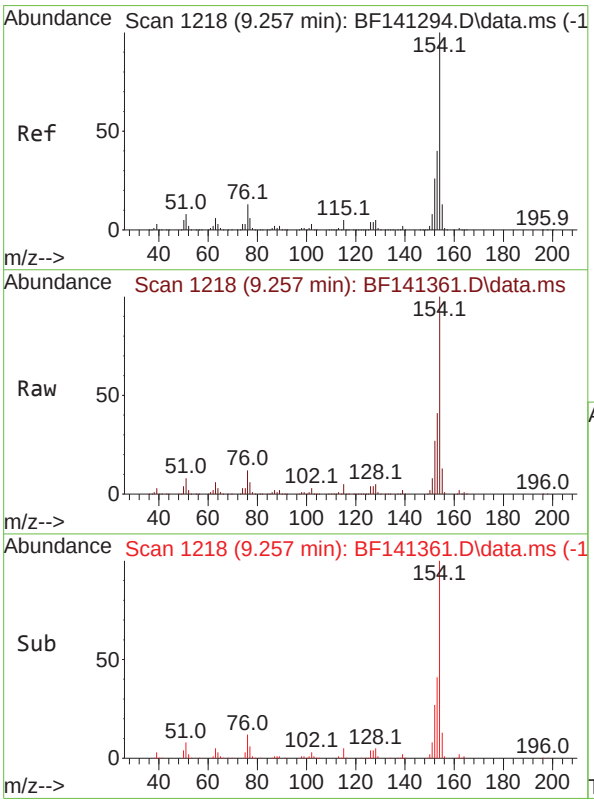
Tgt Ion:172 Resp: 104417

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.8	43.2
170	23.6	19.0	28.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

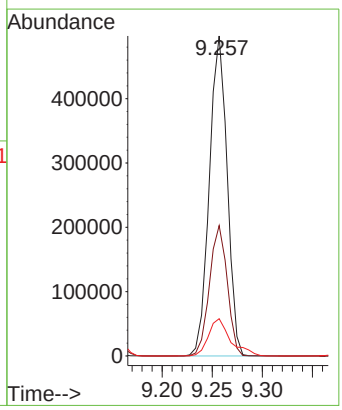


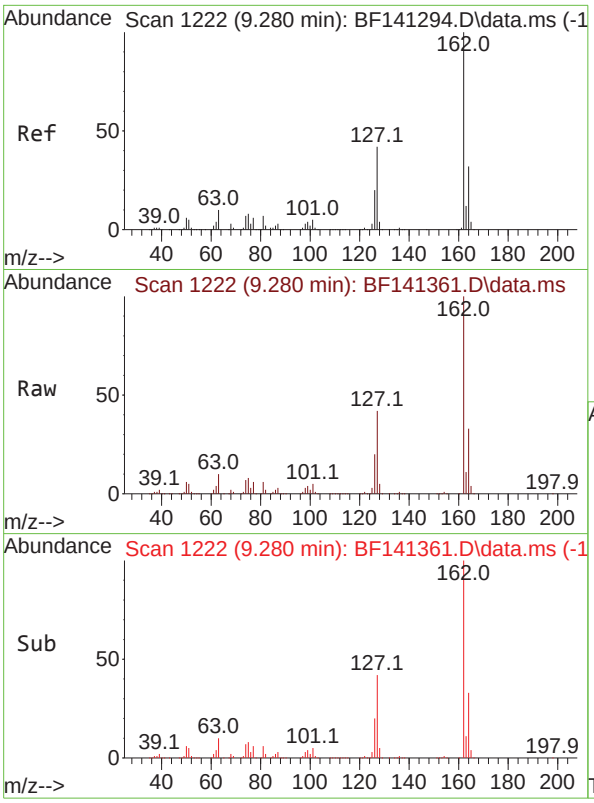


#46
1,1'-Biphenyl
Concen: 39.699 ng
RT: 9.257 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:154 Resp: 614766

Ion	Ratio	Lower	Upper
154	100		
153	40.8	20.0	60.0
76	11.6	0.0	32.8

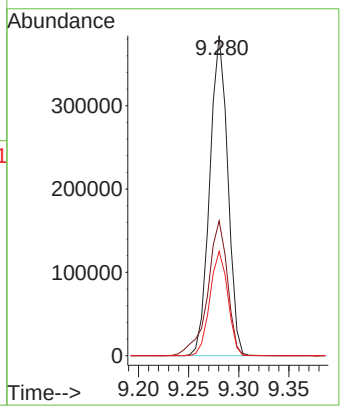




#47
2-Chloronaphthalene
Concen: 39.740 ng
RT: 9.280 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:162 Resp: 47967

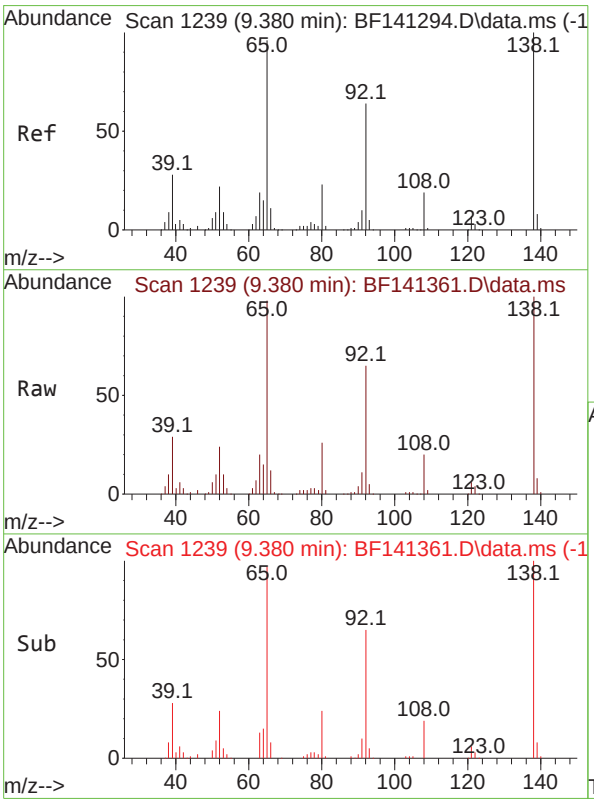
Ion	Ratio	Lower	Upper
162	100		
127	42.1	33.7	50.5
164	32.6	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

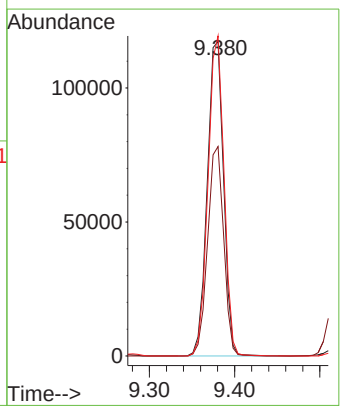
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

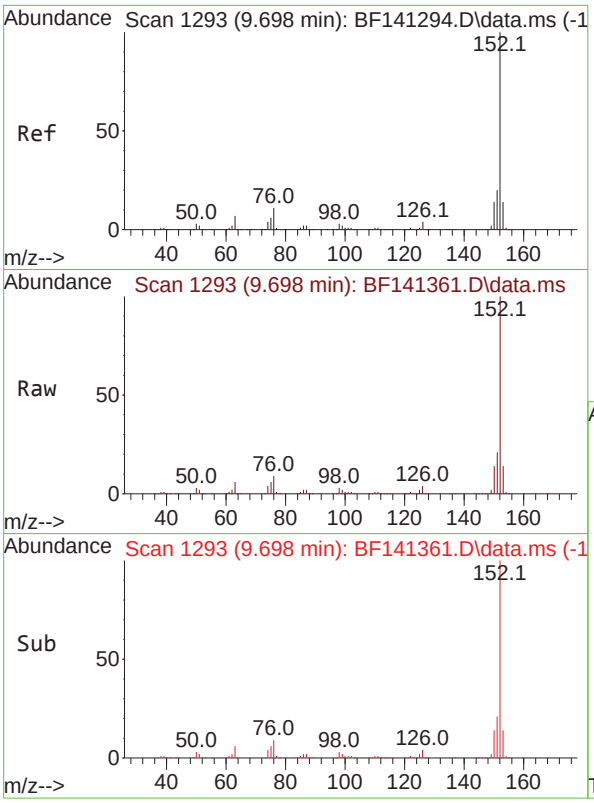


#48
2-Nitroaniline
Concen: 41.055 ng
RT: 9.380 min Scan# 1239
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 65 Resp: 155868

Ion	Ratio	Lower	Upper
65	100		
92	66.6	53.3	79.9
138	101.8	83.6	125.4

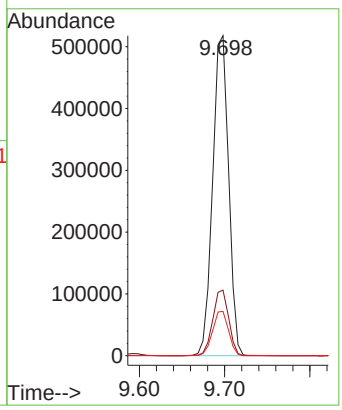




#49
Acenaphthylene
Concen: 39.923 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:152 Resp: 67454

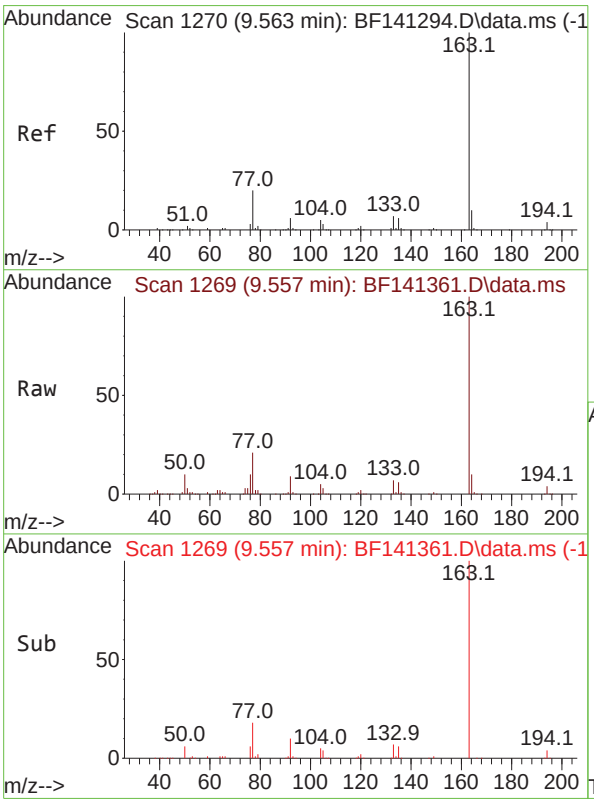
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.9	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

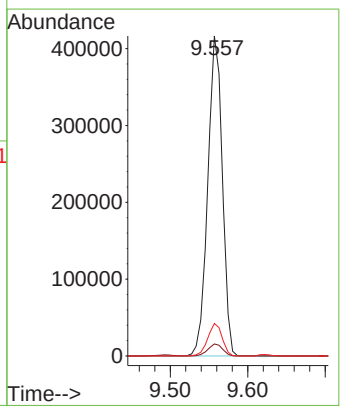
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

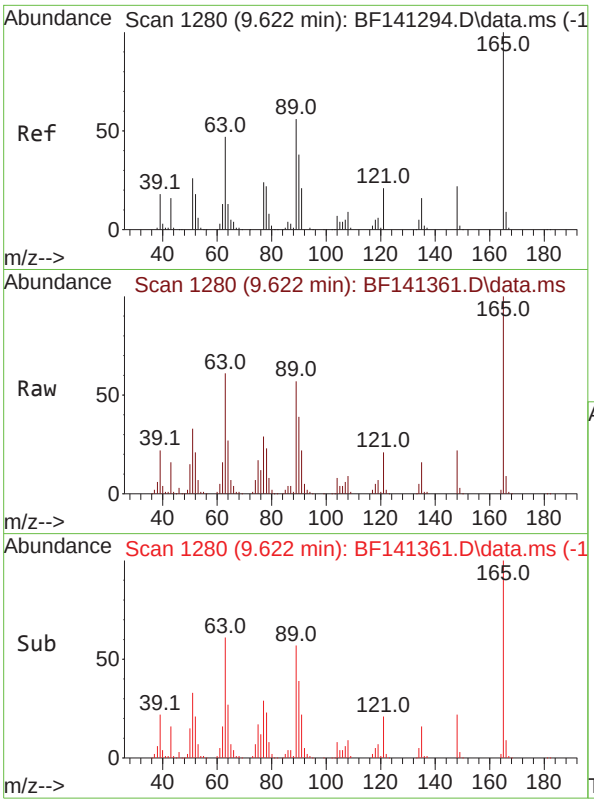


#50
Dimethylphthalate
Concen: 40.523 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:163 Resp: 543455

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.2	8.0	12.0





#51
2,6-Dinitrotoluene
Concen: 40.149 ng
RT: 9.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

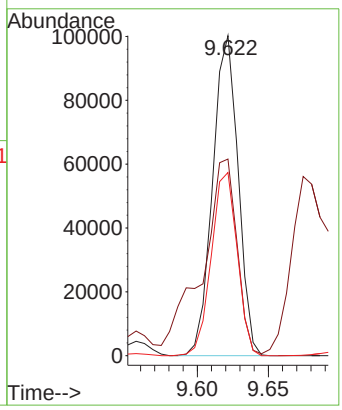
Tgt Ion:165 Resp: 12502

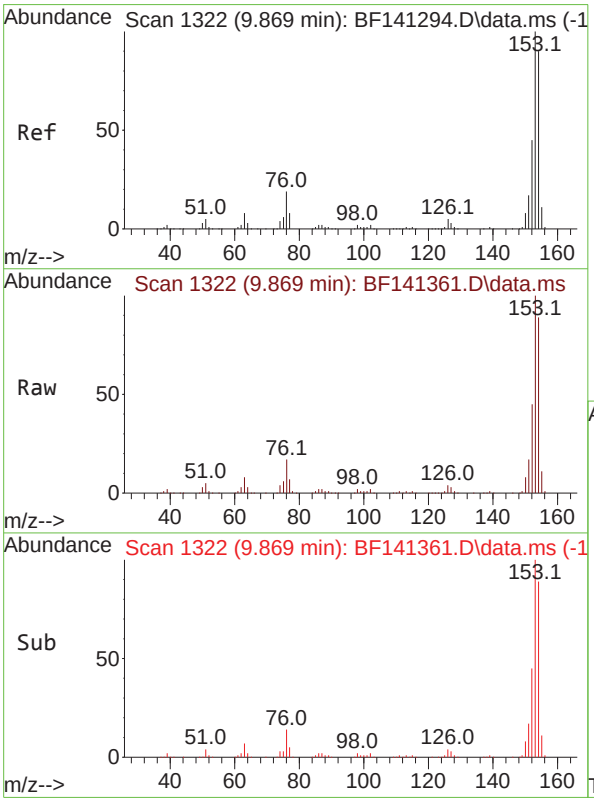
Ion	Ratio	Lower	Upper
165	100		
63	61.5	48.1	72.1
89	57.2	44.9	67.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

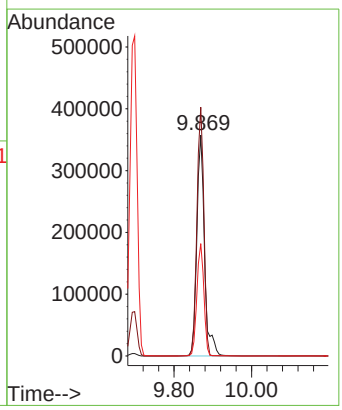


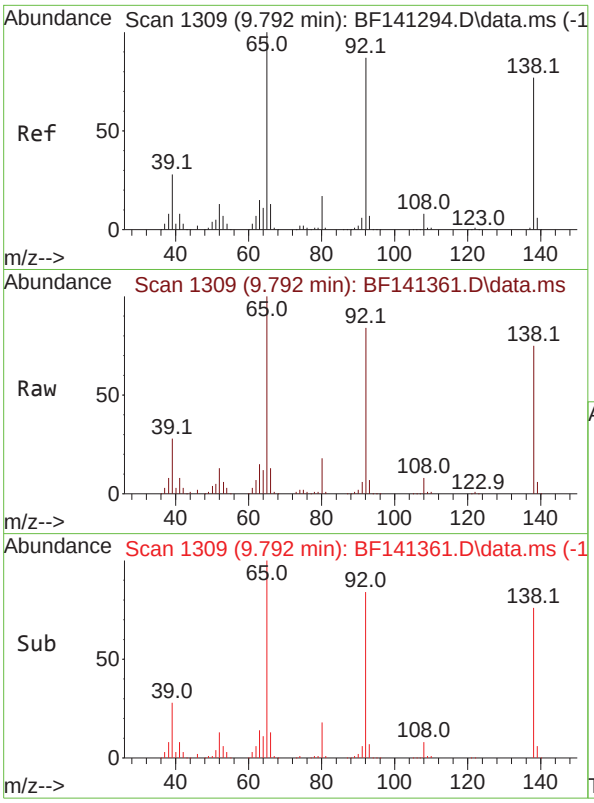


#52
Acenaphthene
Concen: 40.755 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:154 Resp: 491940

Ion	Ratio	Lower	Upper
154	100		
153	112.7	89.0	133.4
152	50.9	40.2	60.4





#53
3-Nitroaniline
Concen: 41.859 ng
RT: 9.792 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

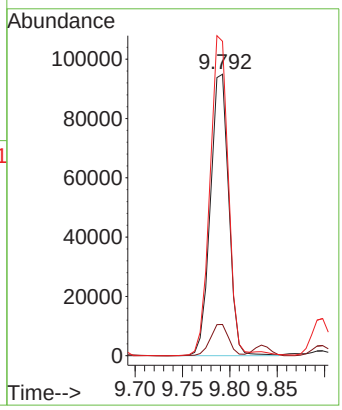
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

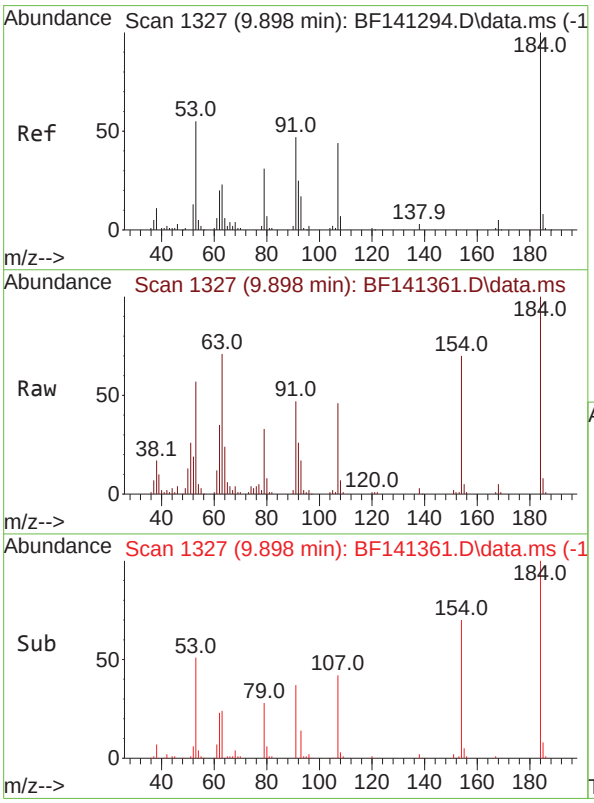
Tgt Ion:138 Resp: 12775

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.6	12.8
92	111.7	91.0	136.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

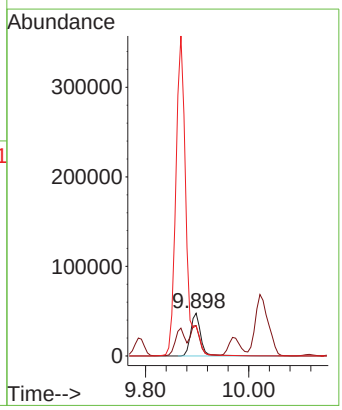


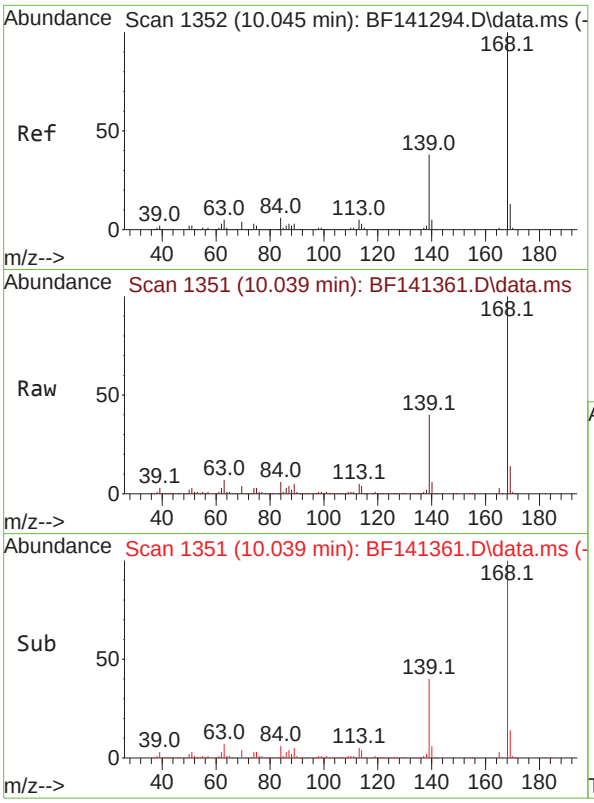


#54
2,4-Dinitrophenol
Concen: 44.625 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:184 Resp: 64595

Ion	Ratio	Lower	Upper
184	100		
63	71.2	54.1	81.1
154	70.4	50.7	76.1

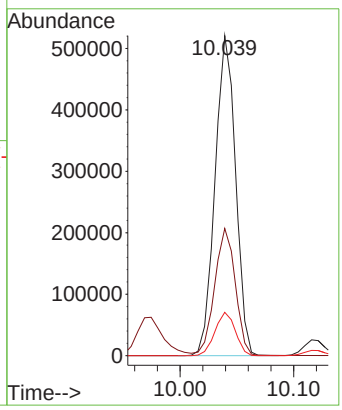




#55
Dibenzofuran
Concen: 40.548 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:168 Resp: 65515

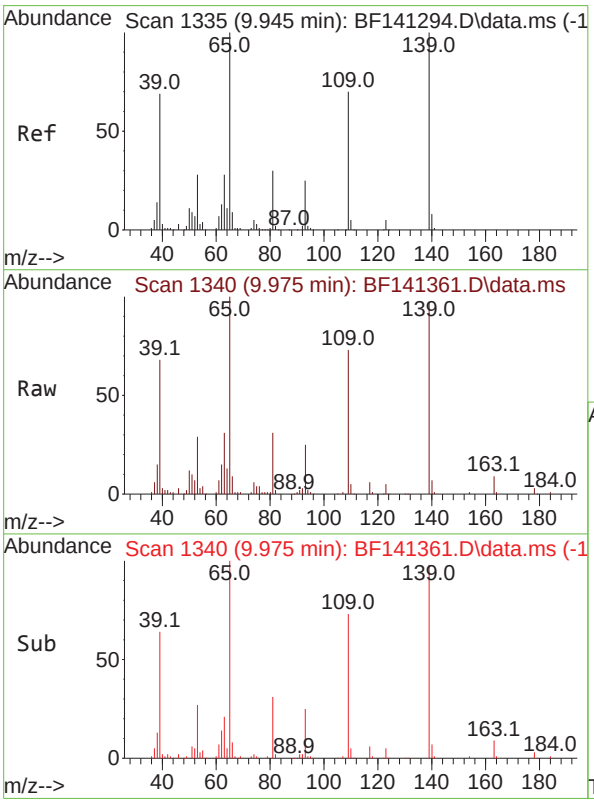
Ion	Ratio	Lower	Upper
168	100		
139	39.8	30.6	46.0
169	13.6	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

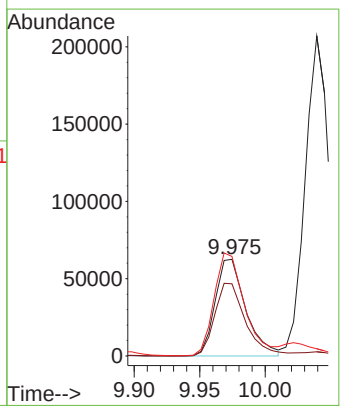
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

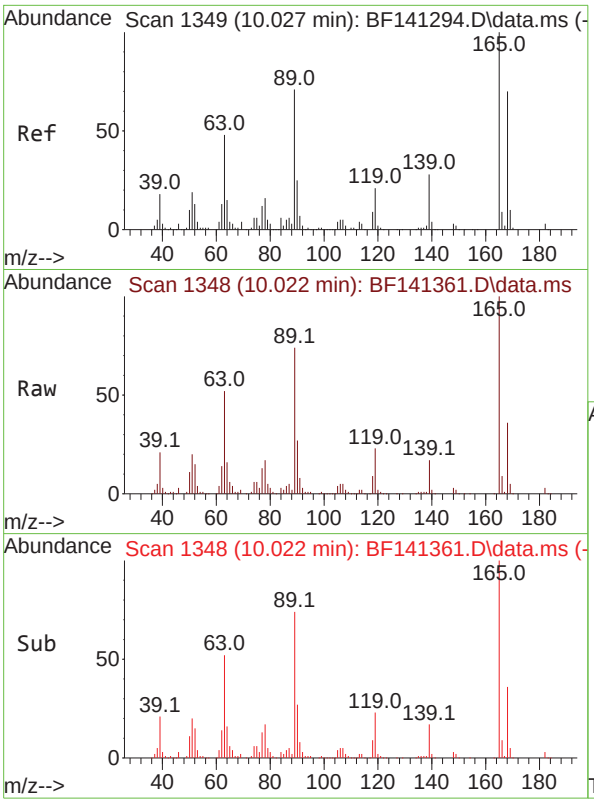


#56
4-Nitrophenol
Concen: 45.471 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.018 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:139 Resp: 101492

Ion	Ratio	Lower	Upper
139	100		
109	74.6	50.2	90.2
65	102.9	80.6	120.6

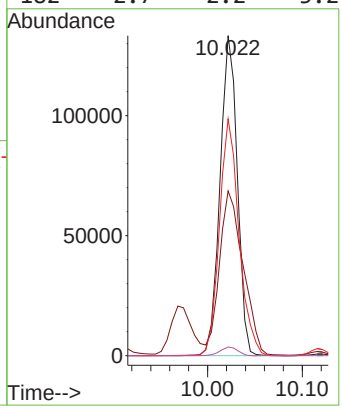




#57
2,4-Dinitrotoluene
Concen: 41.946 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:165 Resp: 16910

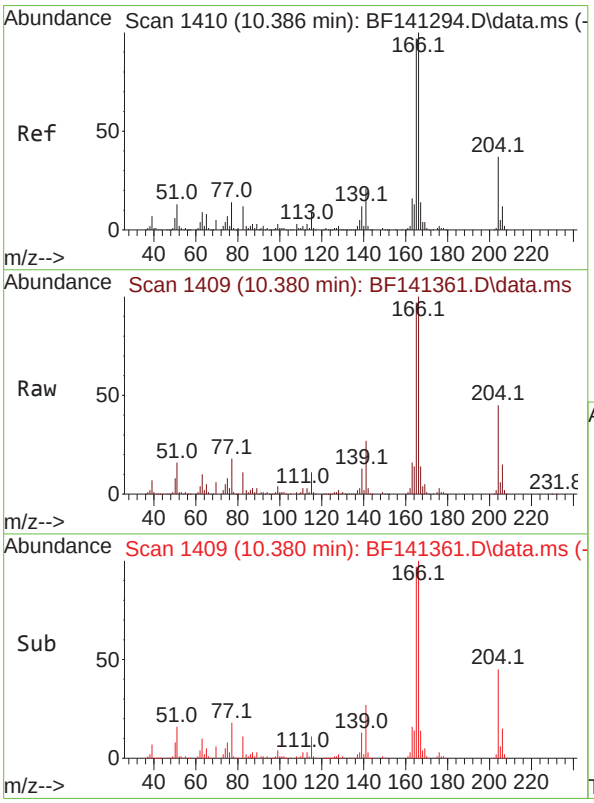
Ion	Ratio	Lower	Upper
165	100		
63	51.5	39.2	58.8
89	74.0	56.9	85.3
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

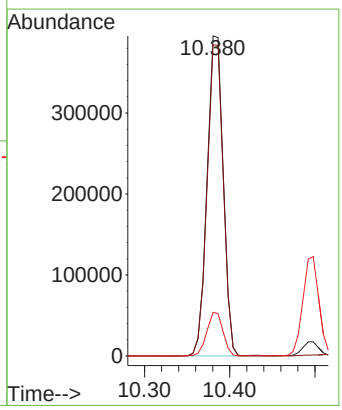
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

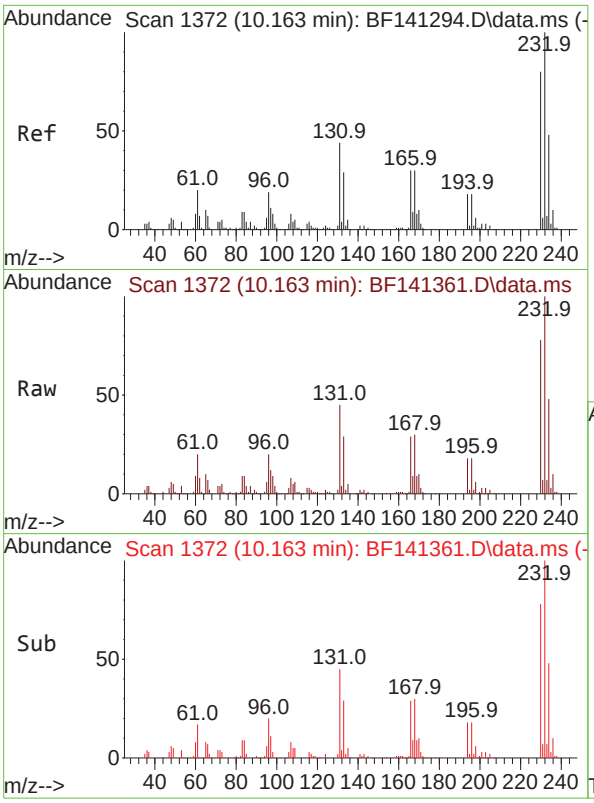


#58
Fluorene
Concen: 41.554 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:166 Resp: 520788

Ion	Ratio	Lower	Upper
166	100		
165	97.2	77.5	116.3
167	13.7	10.9	16.3

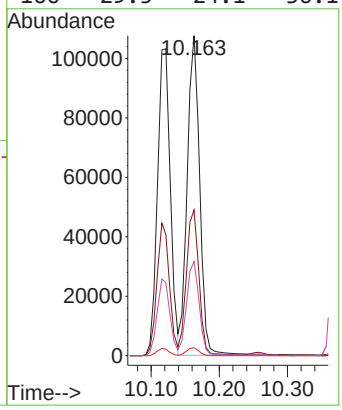




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.892 ng
RT: 10.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:232 Resp: 13579

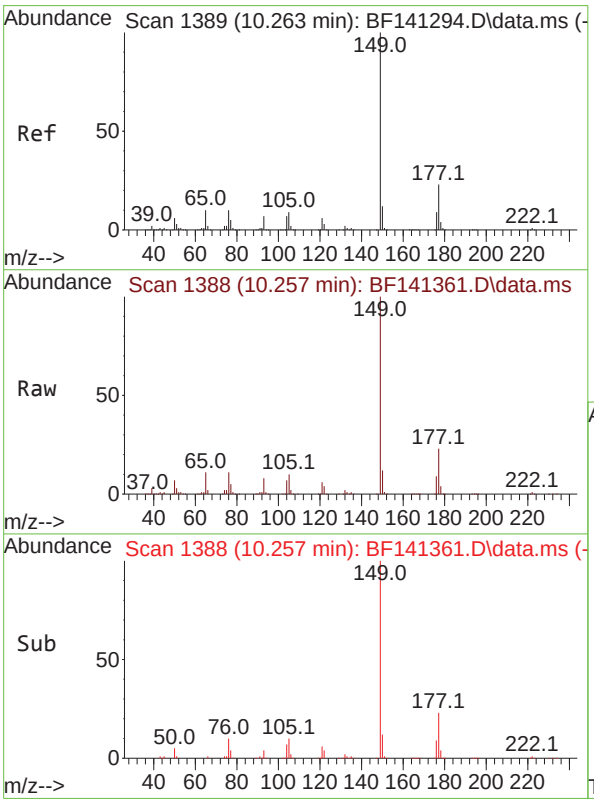
Ion	Ratio	Lower	Upper
232	100		
131	46.0	36.4	54.6
130	2.5	1.9	2.9
166	29.5	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

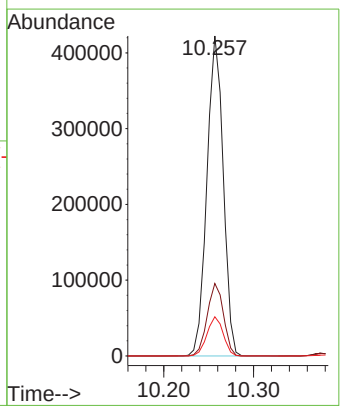
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

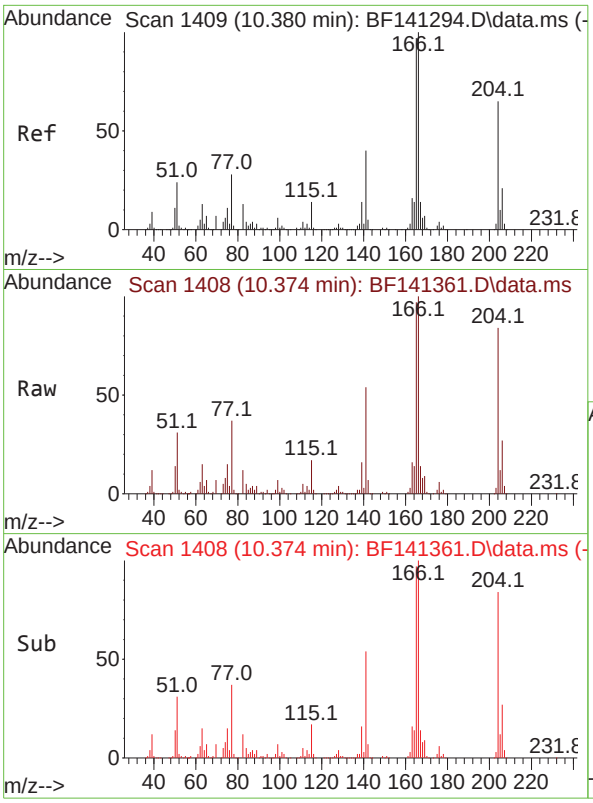


#60
Diethylphthalate
Concen: 41.025 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:149 Resp: 533471

Ion	Ratio	Lower	Upper
149	100		
177	22.7	18.5	27.7
150	12.2	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 41.170 ng
RT: 10.374 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

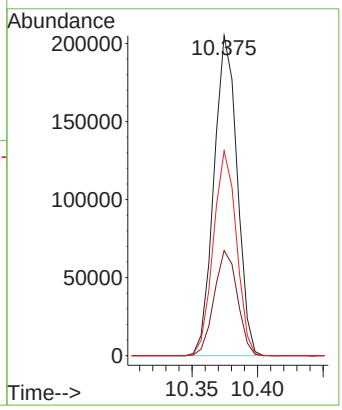
Tgt Ion:204 Resp: 25204

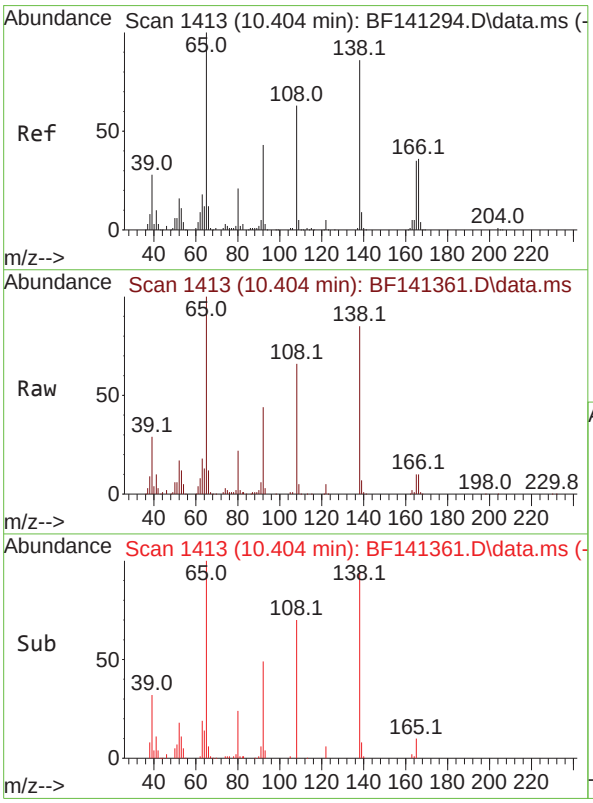
Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.9	38.9
141	64.0	49.5	74.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

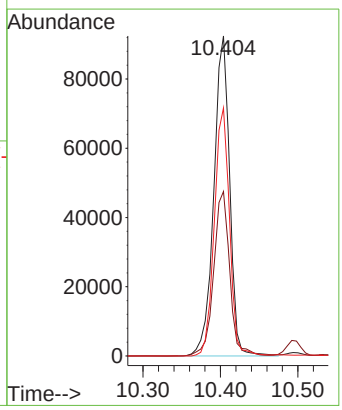


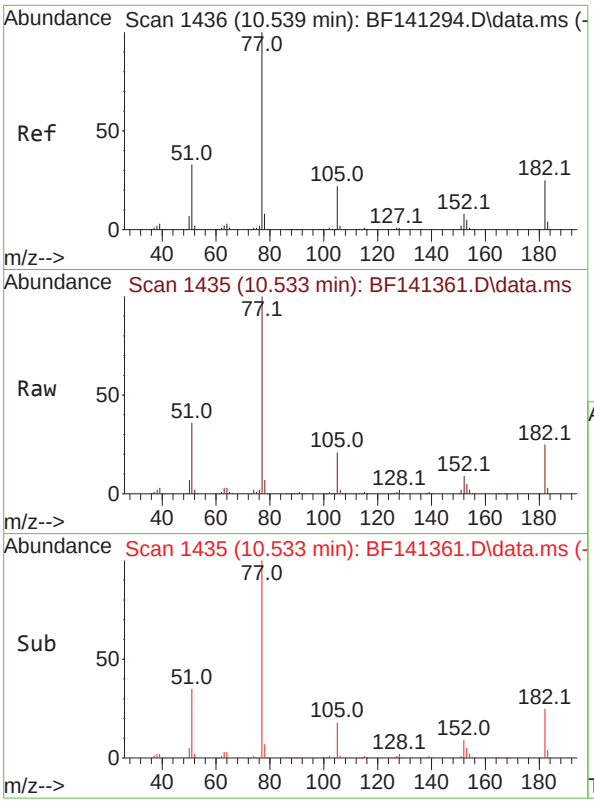


#62
4-Nitroaniline
Concen: 43.865 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:138 Resp: 131617

Ion	Ratio	Lower	Upper
138	100		
92	51.4	30.1	70.1
108	77.5	53.1	93.1

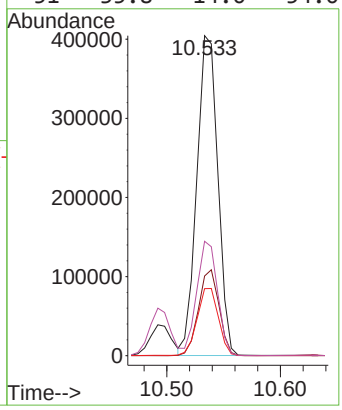




#63
Azobenzene
Concen: 40.048 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion: 77 Resp: 52127

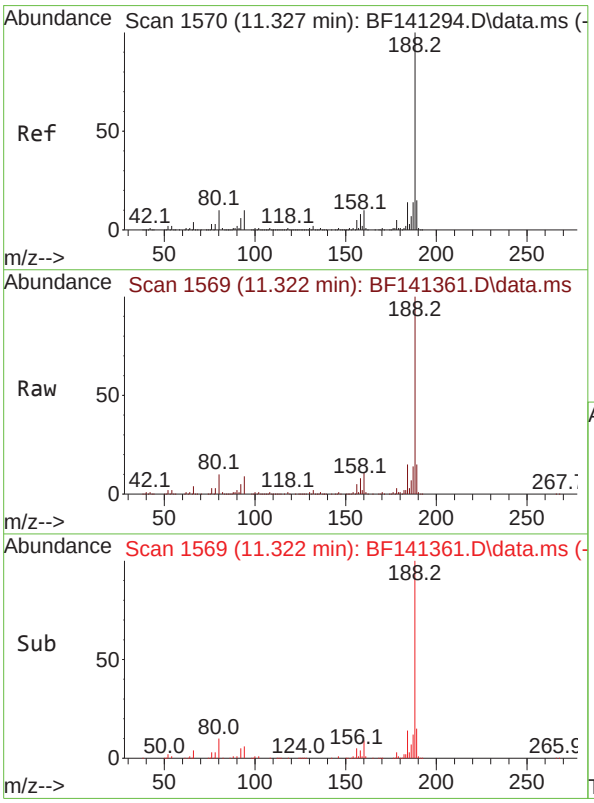
Ion	Ratio	Lower	Upper
77	100		
182	24.9	5.1	45.1
105	20.9	1.8	41.8
51	35.8	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

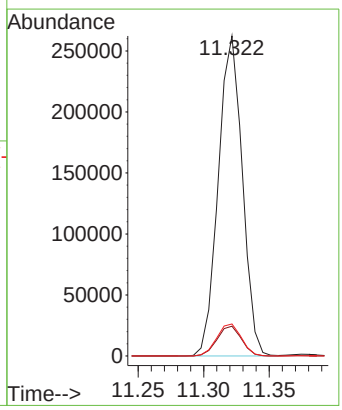
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

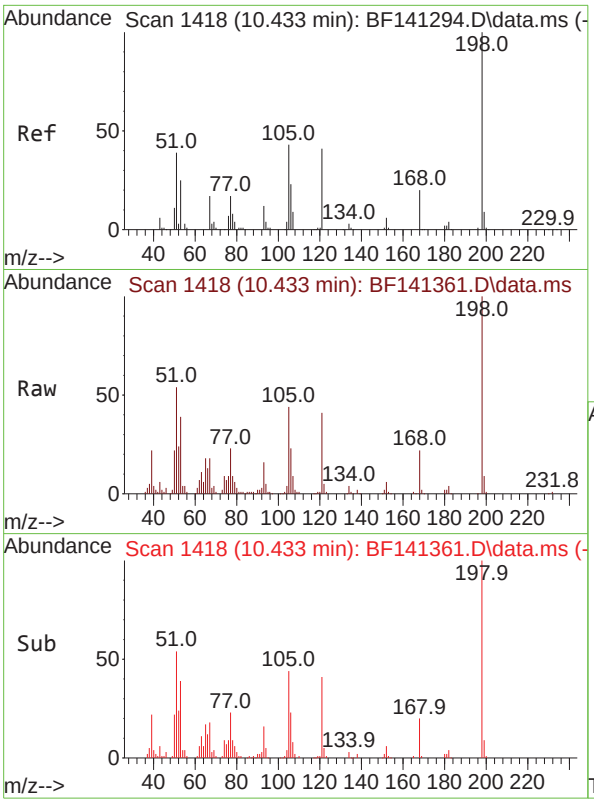


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:188 Resp: 334466

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.8	11.6
80	10.0	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 46.869 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

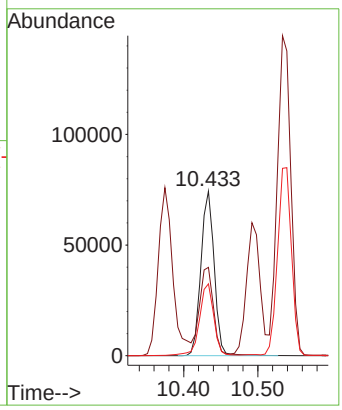
Tgt Ion:198 Resp: 9272

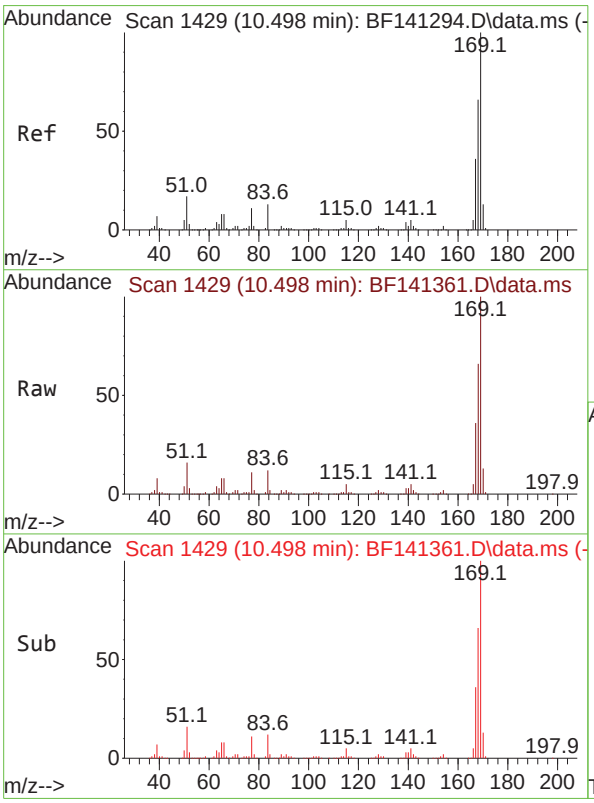
Ion	Ratio	Lower	Upper
198	100		
51	53.7	33.4	73.4
105	43.7	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

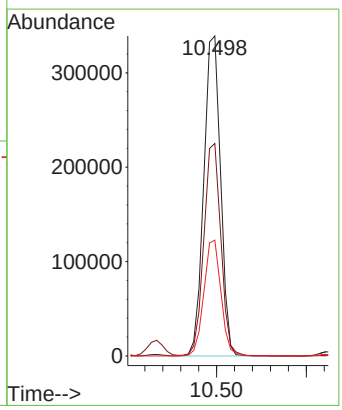


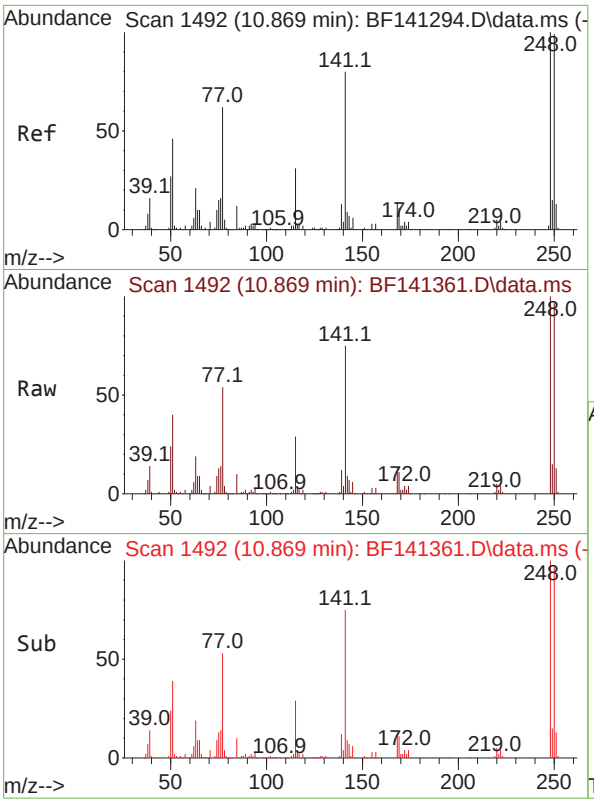


#66
n-Nitrosodiphenylamine
Concen: 40.682 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:169 Resp: 440088

Ion	Ratio	Lower	Upper
169	100		
168	66.4	53.0	79.4
167	36.2	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 41.715 ng
RT: 10.869 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

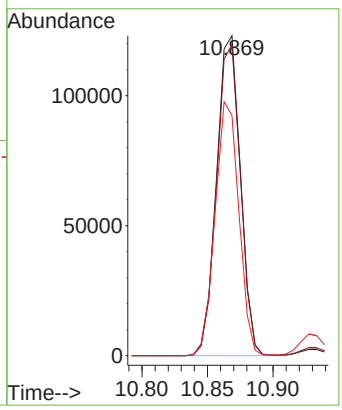
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

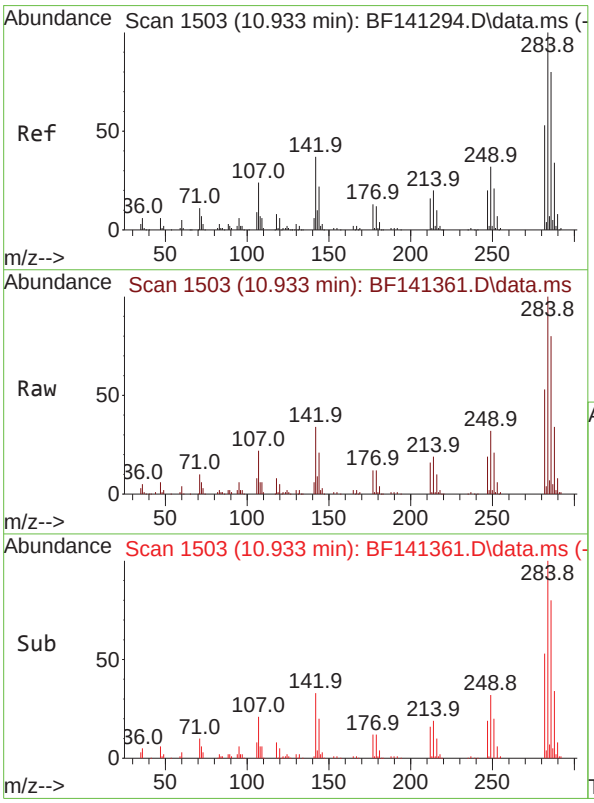
Tgt Ion:248 Resp: 15619

Ion	Ratio	Lower	Upper
248	100		
250	97.2	79.0	118.4
141	75.1	63.7	95.5

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

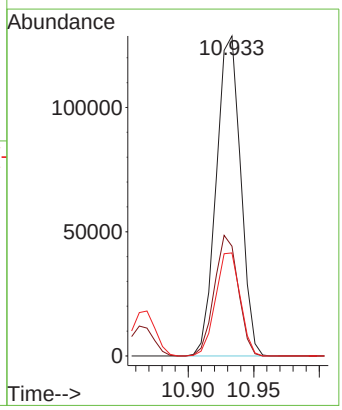


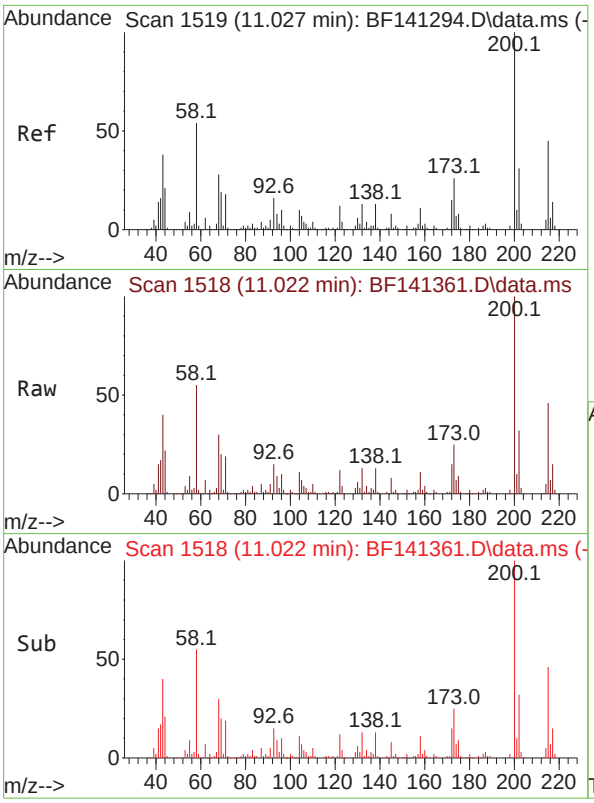


#68
Hexachlorobenzene
Concen: 41.866 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:284 Resp: 166289

Ion	Ratio	Lower	Upper
284	100		
142	34.3	29.5	44.3
249	32.2	25.4	38.2

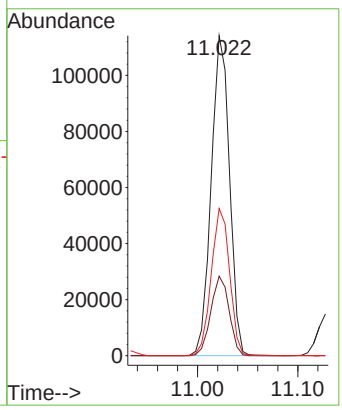




#69
Atrazine
Concen: 39.975 ng
RT: 11.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:200 Resp: 14458

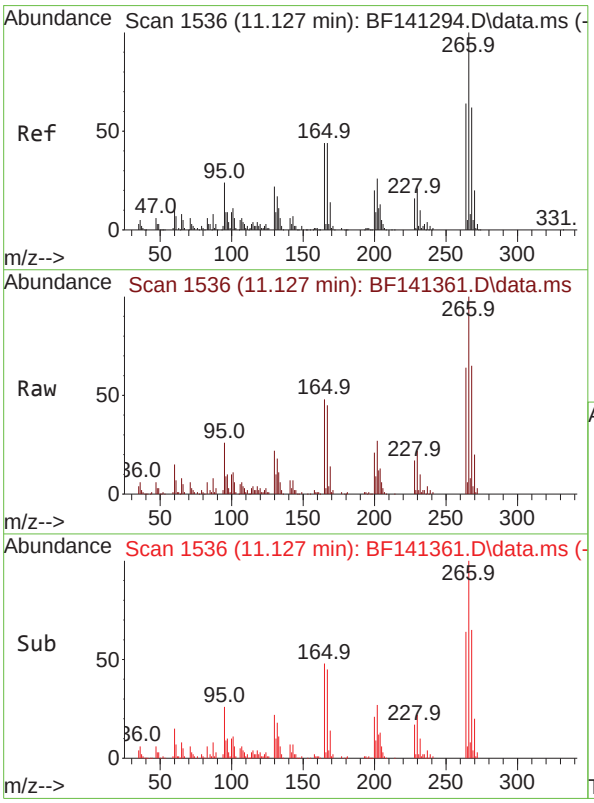
Ion	Ratio	Lower	Upper
200	100		
173	24.9	5.9	45.9
215	46.0	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

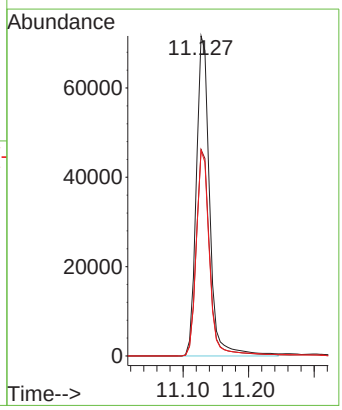
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

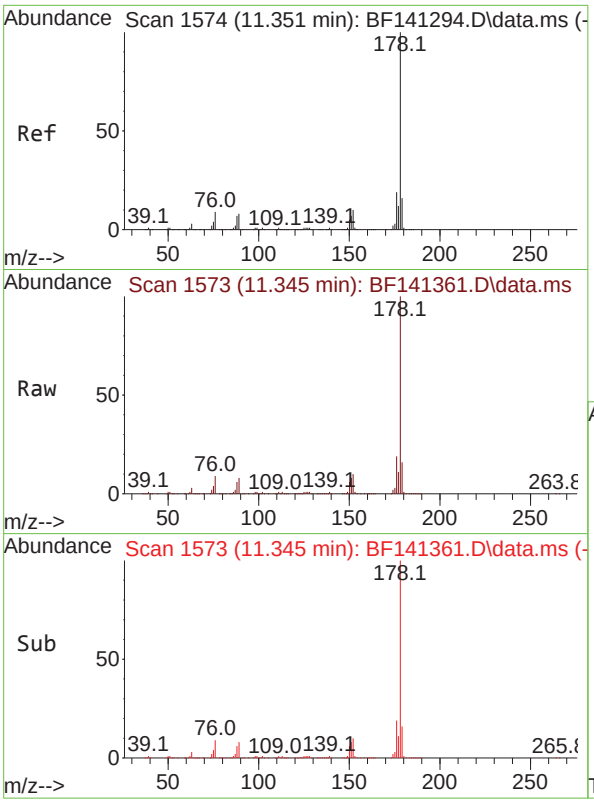


#70
Pentachlorophenol
Concen: 43.745 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:266 Resp: 101747

Ion	Ratio	Lower	Upper
266	100		
268	64.5	49.9	74.9
264	64.2	51.0	76.4





#71
Phenanthrene
Concen: 42.056 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

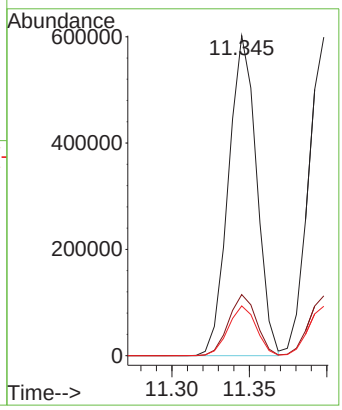
Tgt Ion:178 Resp: 75611

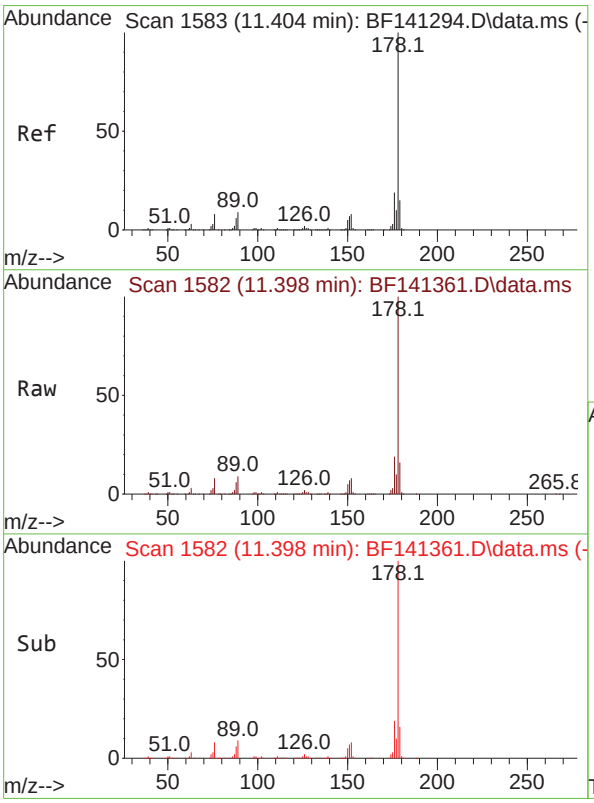
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.5	18.7

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

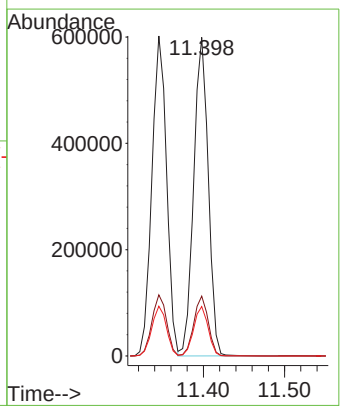


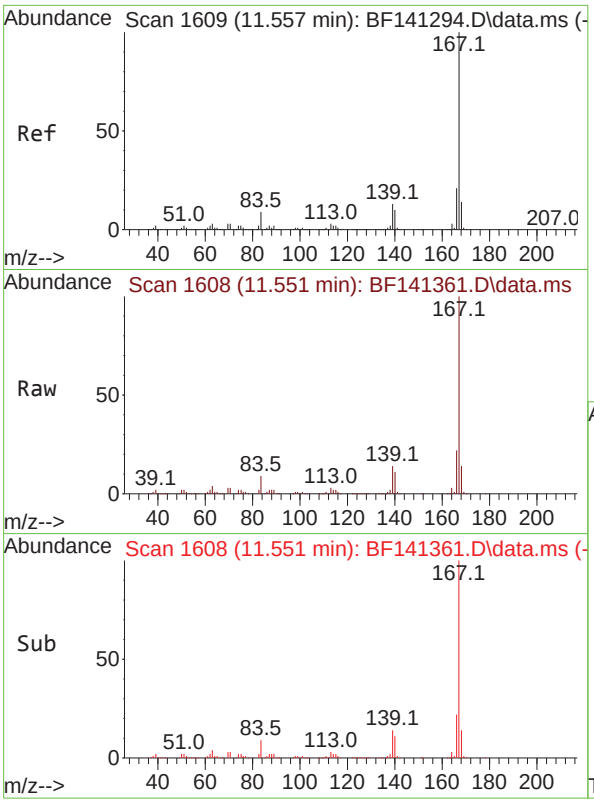


#72
Anthracene
Concen: 42.420 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:178 Resp: 747273

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.5	12.3	18.5

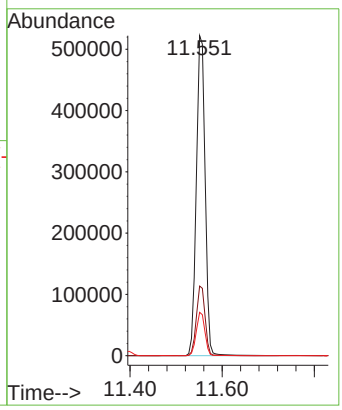




#73
Carbazole
Concen: 44.227 ng
RT: 11.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:167 Resp: 69085

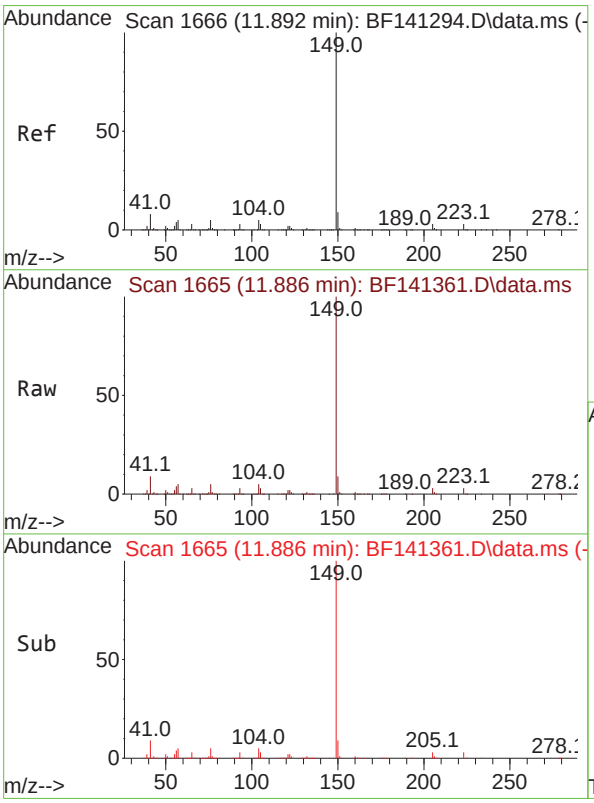
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.6
139	13.5	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

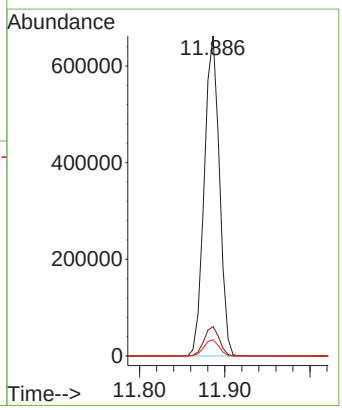
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

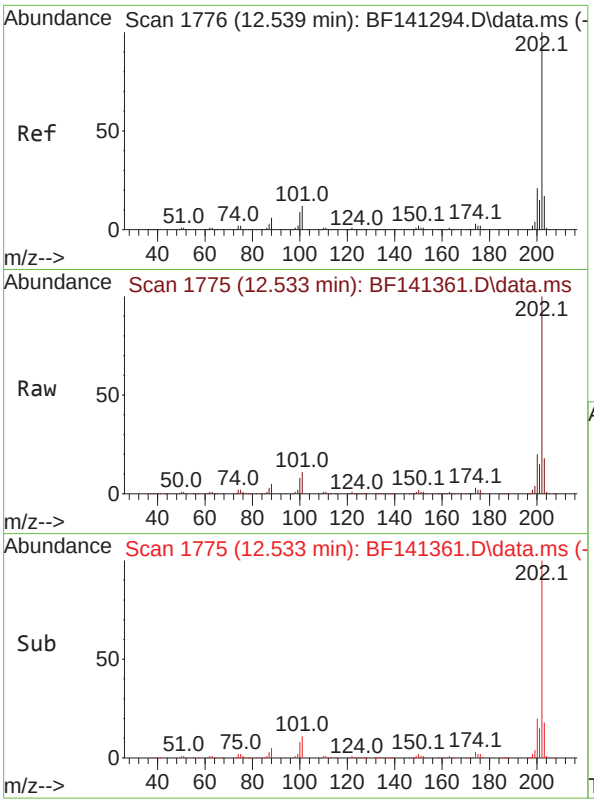


#74
Di-n-butylphthalate
Concen: 43.100 ng
RT: 11.886 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:149 Resp: 815911

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	5.1	3.9	5.9

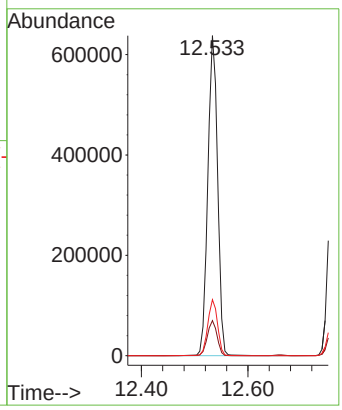




#75
Fluoranthene
Concen: 45.626 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:202 Resp: 80996

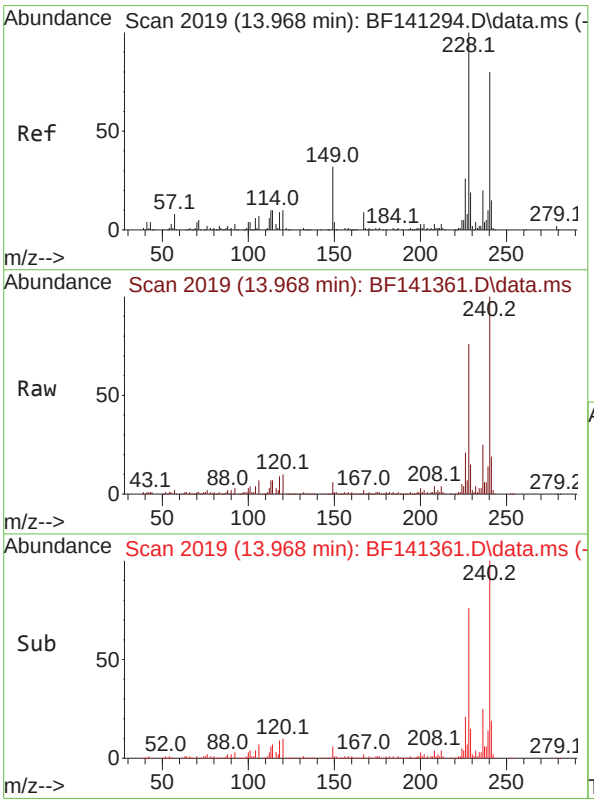
Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.7
203	17.5	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

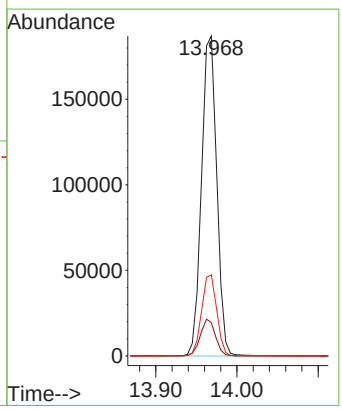
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

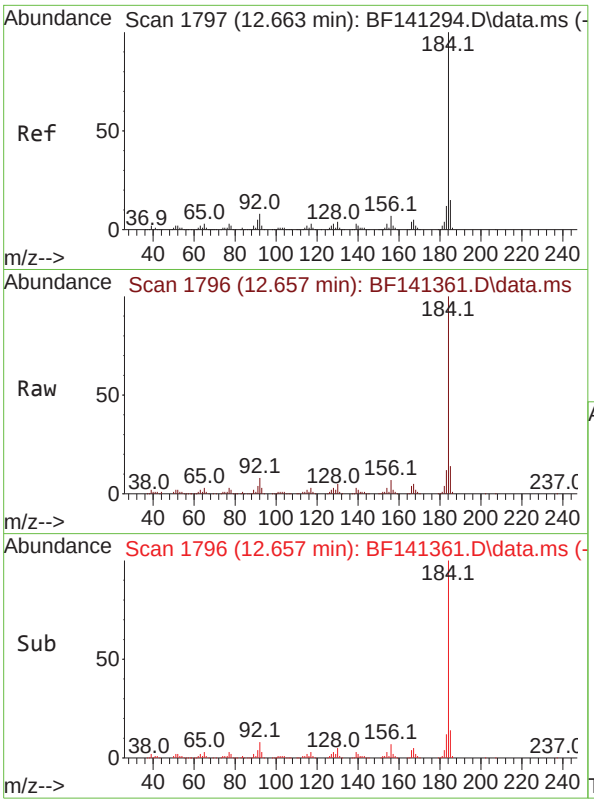


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:240 Resp: 243574

Ion	Ratio	Lower	Upper
240	100		
120	10.4	10.0	15.0
236	25.4	19.7	29.5

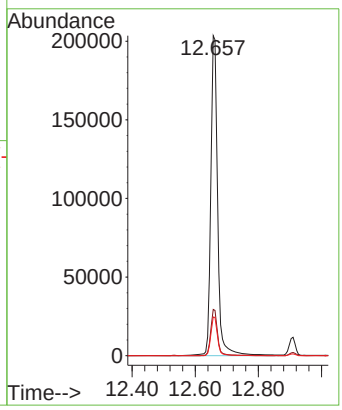




#77
Benzidine
Concen: 39.082 ng
RT: 12.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:184 Resp: 30517

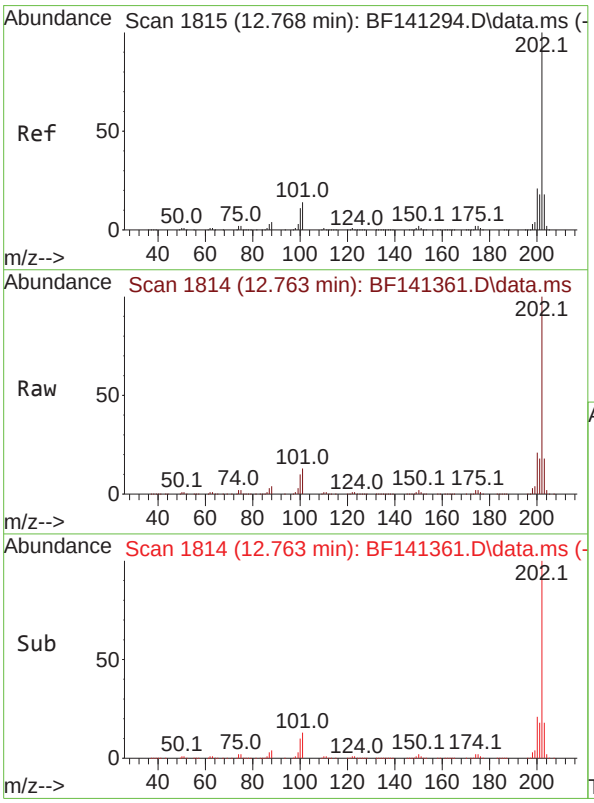
Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.9	17.9
183	12.1	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

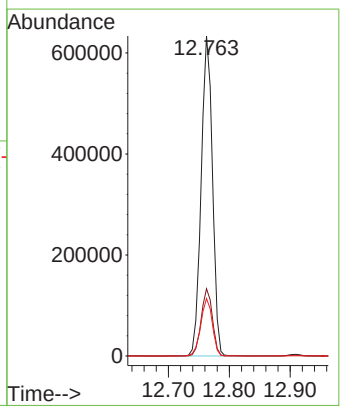
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

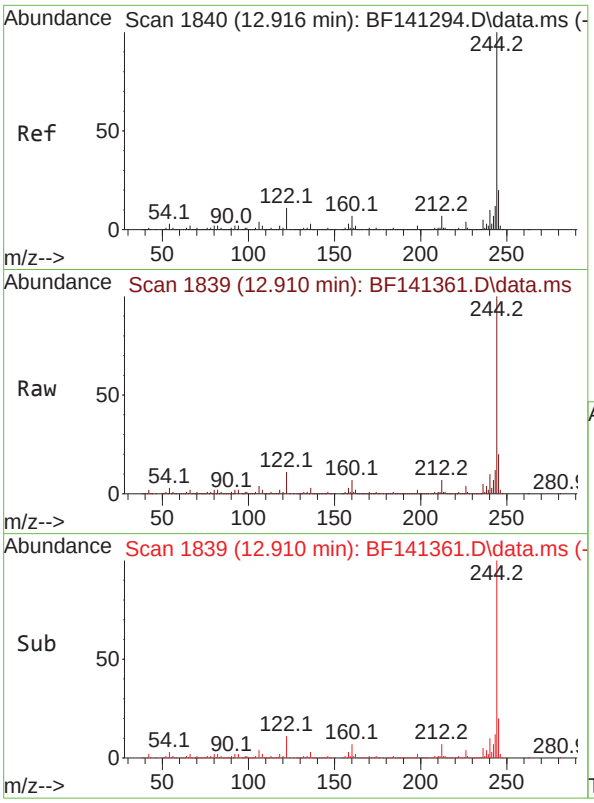


#78
Pyrene
Concen: 34.986 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:202 Resp: 817992

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	18.0	14.3	21.5

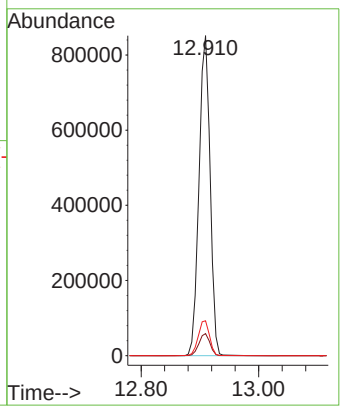




#79
Terphenyl-d14
Concen: 70.570 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:244 Resp: 111459

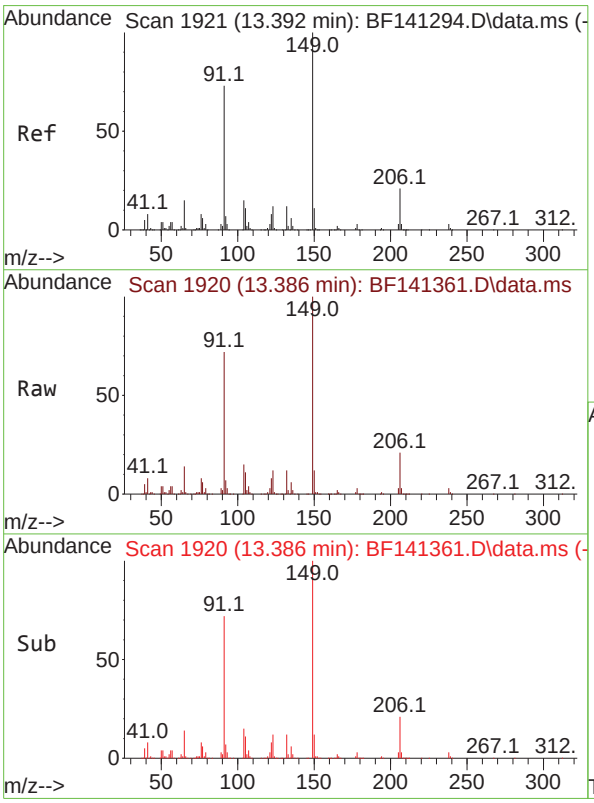
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	10.9	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

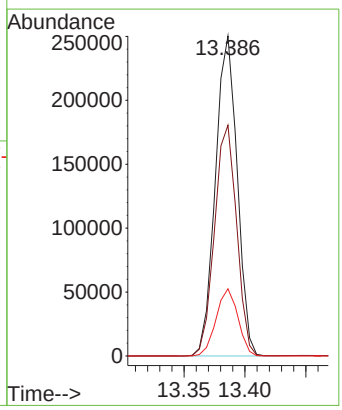
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

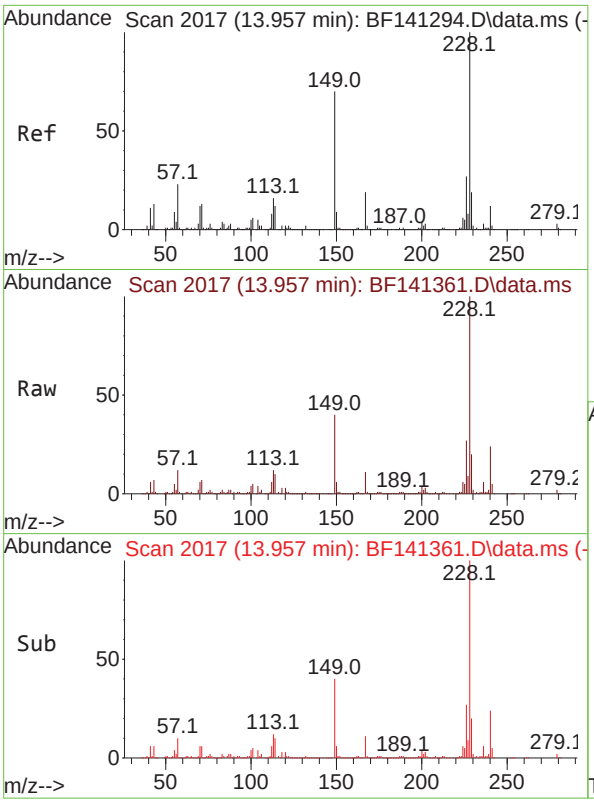


#80
Butylbenzylphthalate
Concen: 38.308 ng
RT: 13.386 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:149 Resp: 312910

Ion	Ratio	Lower	Upper
149	100		
91	72.1	58.6	87.8
206	21.0	16.7	25.1

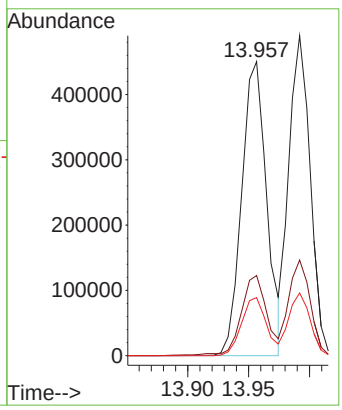




#81
Benzo(a)anthracene
Concen: 38.325 ng
RT: 13.957 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:228 Resp: 64416

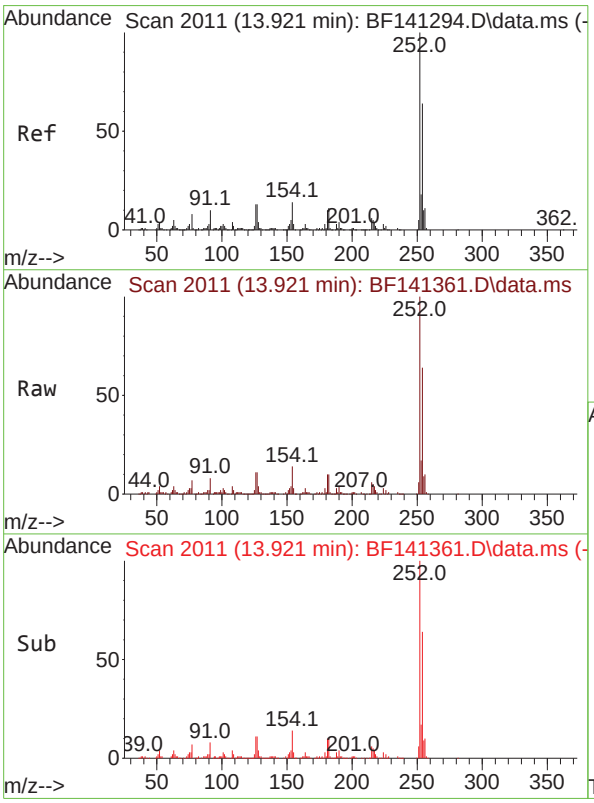
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.4	32.2
229	19.8	15.5	23.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

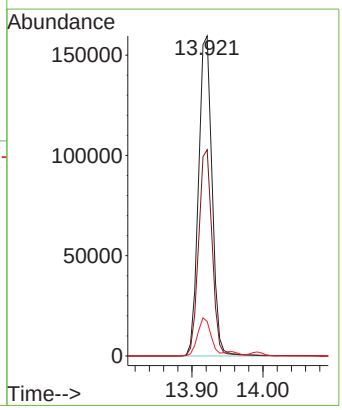
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

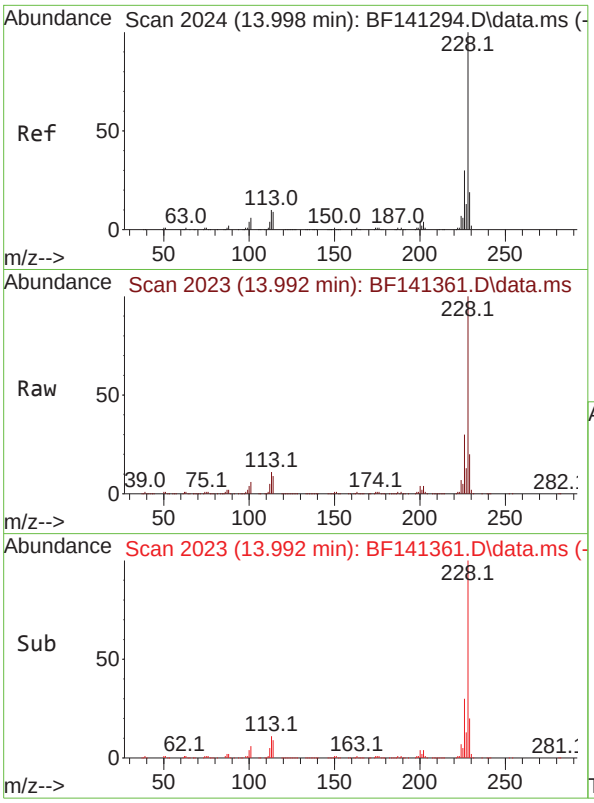


#82
3,3'-Dichlorobenzidine
Concen: 39.687 ng
RT: 13.921 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:252 Resp: 212156

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.3	76.9
126	10.8	10.0	15.0

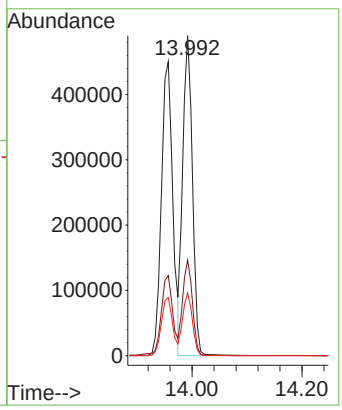




#83
Chrysene
Concen: 39.050 ng
RT: 13.992 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:228 Resp: 60152

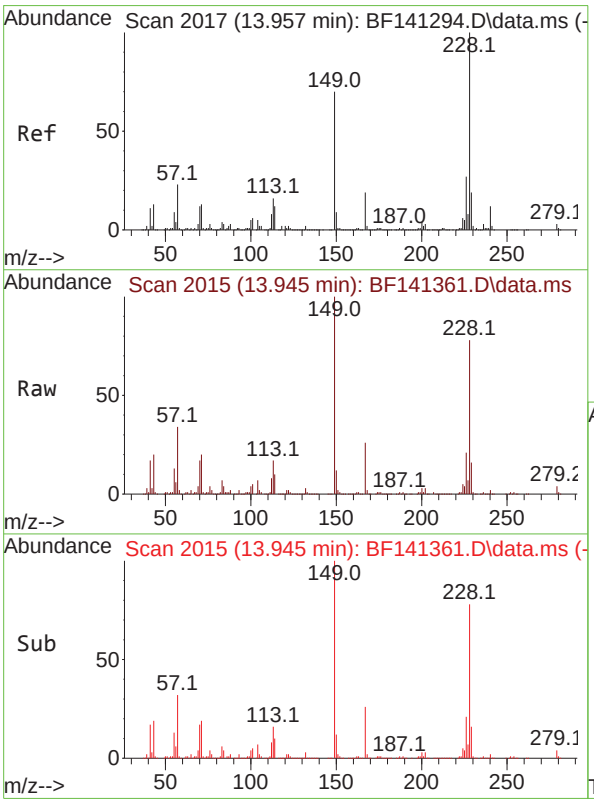
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.6	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

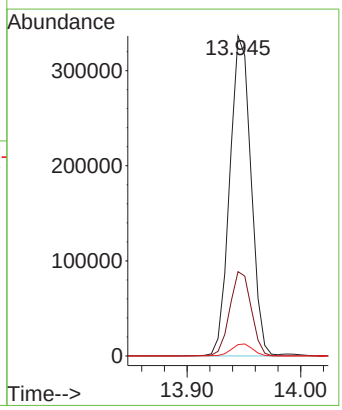
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

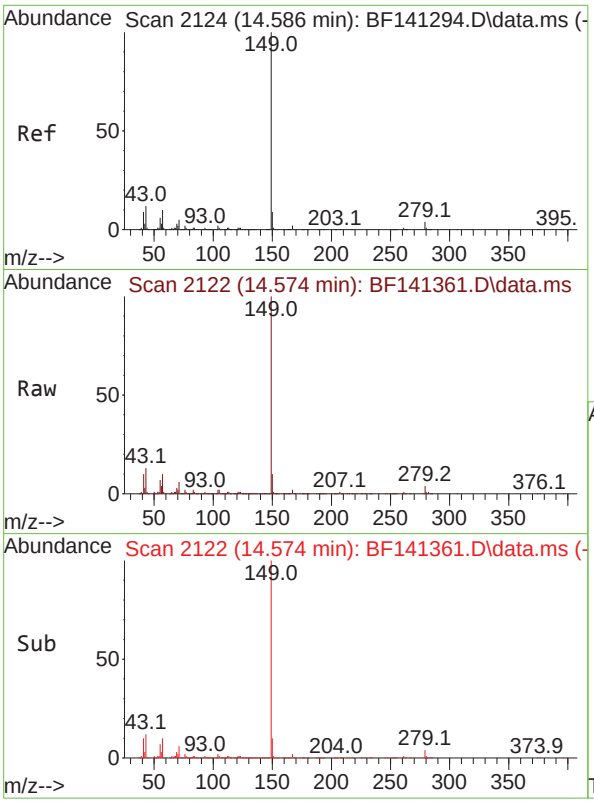


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.145 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:149 Resp: 436692

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.8	32.8
279	3.6	3.3	4.9





#85
Di-n-octyl phthalate
Concen: 44.516 ng
RT: 14.574 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

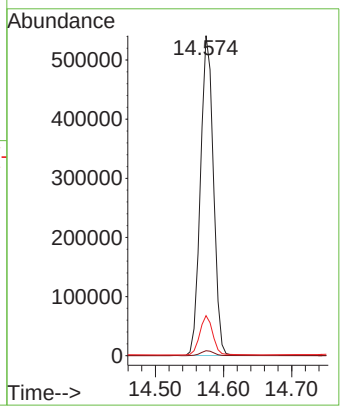
Tgt Ion:149 Resp: 71642

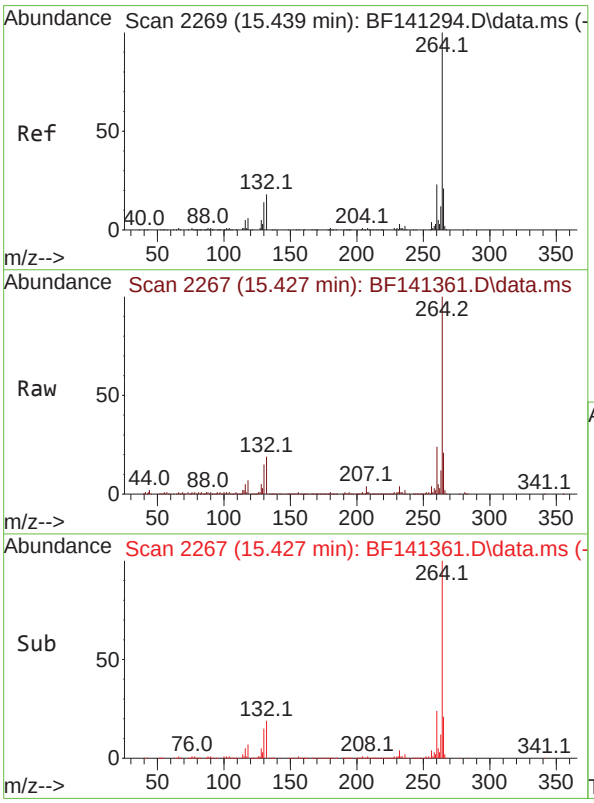
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	12.2	9.8	14.8

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

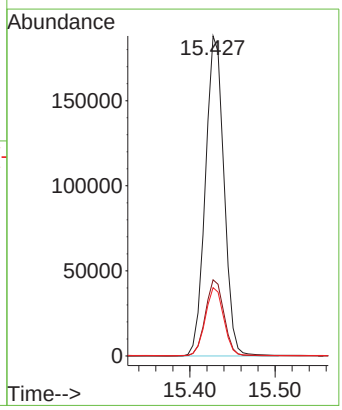


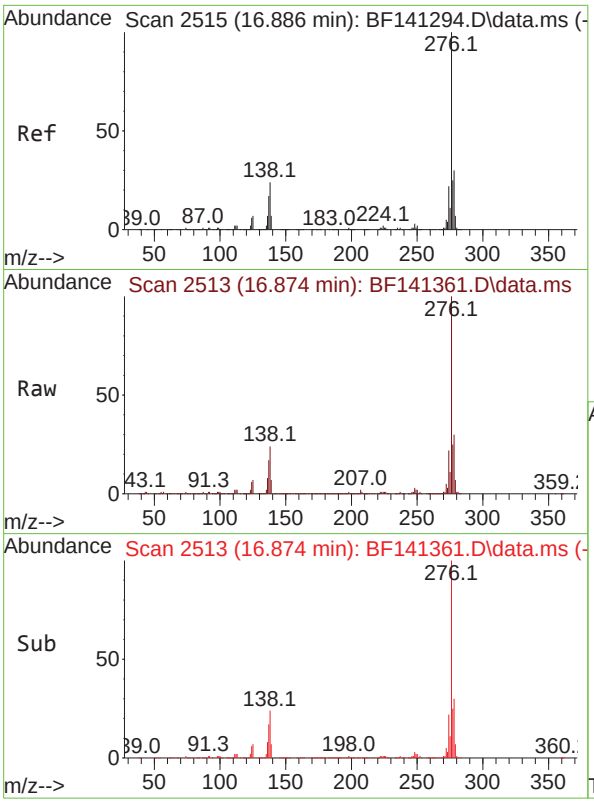


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:264 Resp: 284769

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.6	27.8
265	21.4	16.7	25.1

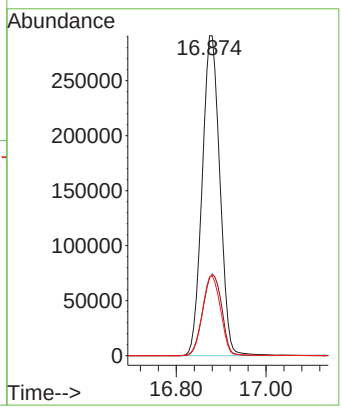




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.334 ng
RT: 16.874 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:276 Resp: 79646

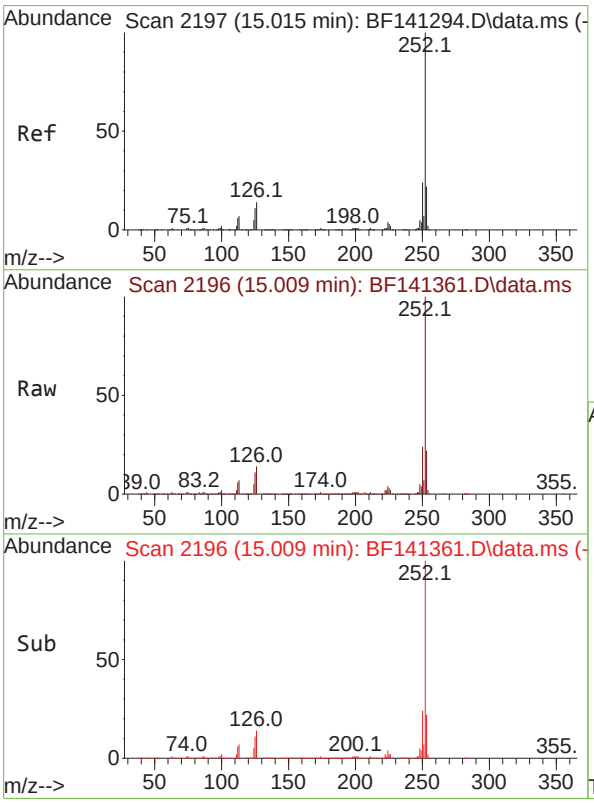
Ion	Ratio	Lower	Upper
276	100		
138	27.2	21.7	32.5
277	25.6	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

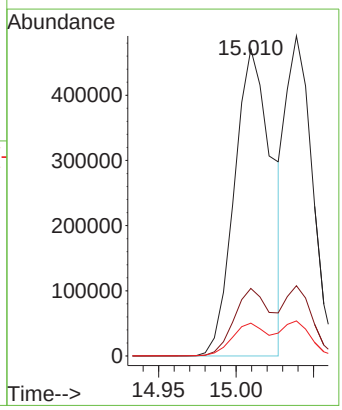
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

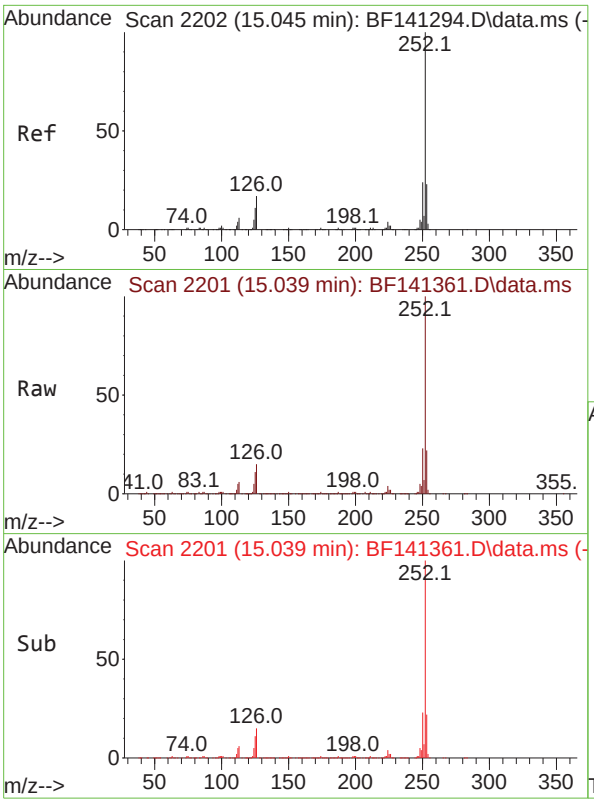


#88
Benzo(b)fluoranthene
Concen: 44.175 ng
RT: 15.009 min Scan# 2196
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:252 Resp: 791291

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.4	26.2
125	10.7	8.6	12.8





#89
Benzo(k)fluoranthene
Concen: 36.950 ng
RT: 15.039 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

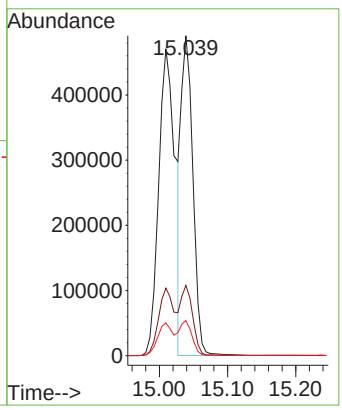
Tgt Ion:252 Resp: 58634

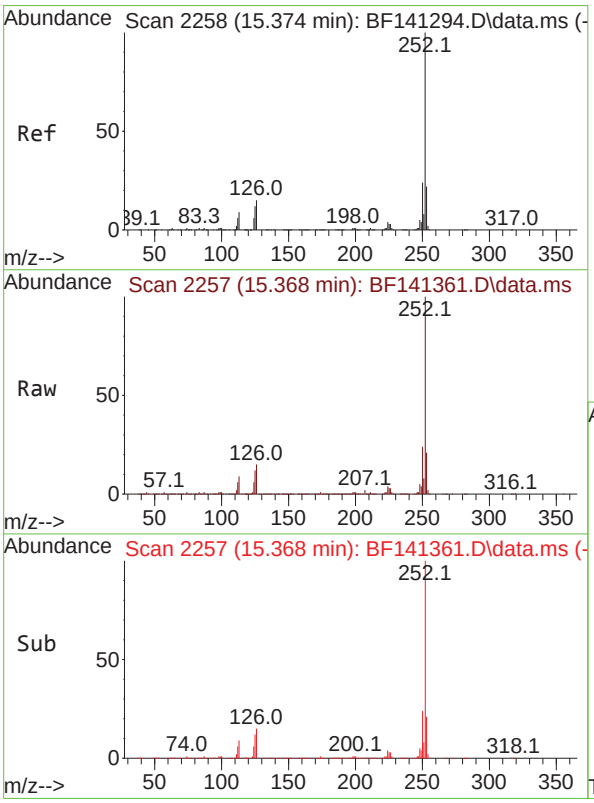
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	10.9	8.4	12.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

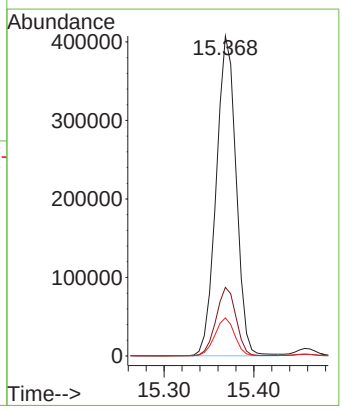


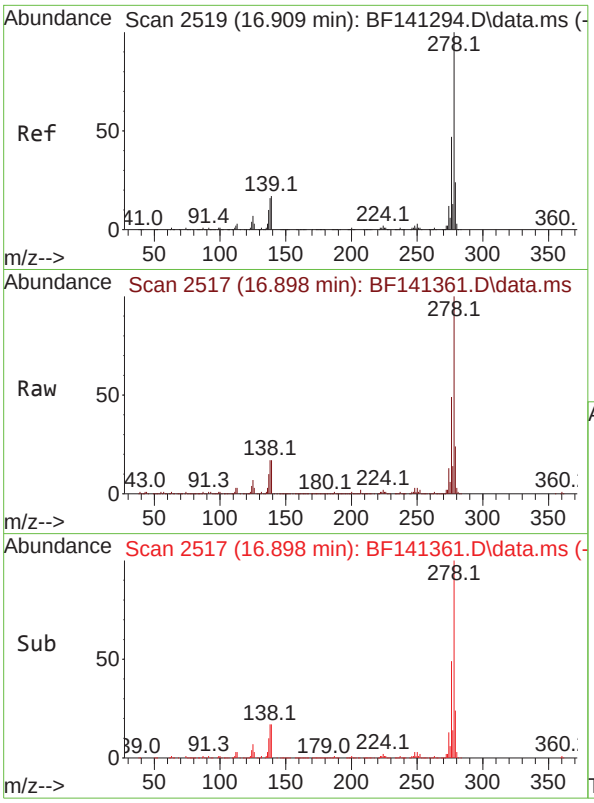


#90
Benzo(a)pyrene
Concen: 41.504 ng
RT: 15.368 min Scan# 2257
Delta R.T. -0.012 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:252 Resp: 628247

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	11.9	9.4	14.2

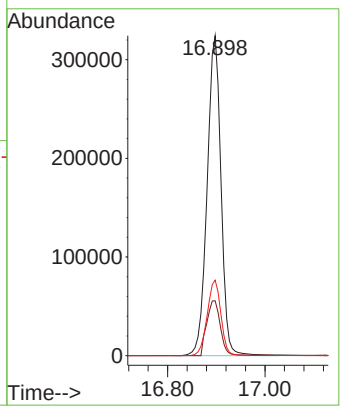




#91
Dibenzo(a,h)anthracene
Concen: 43.298 ng
RT: 16.898 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:278 Resp: 64025

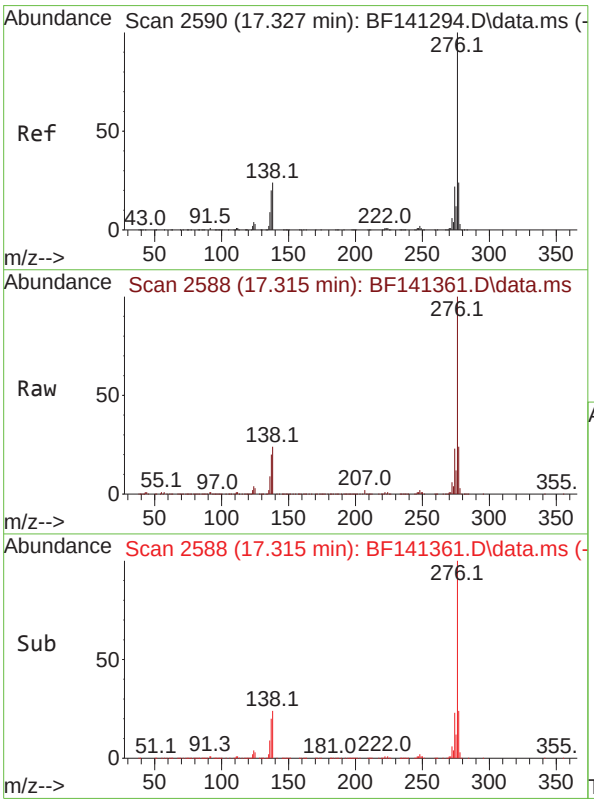
Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.9	20.9
279	23.6	18.8	28.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

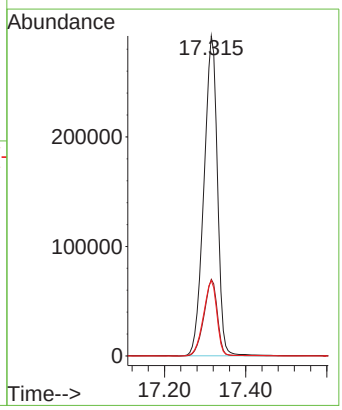
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025



#92
Benzo(g,h,i)perylene
Concen: 43.768 ng
RT: 17.315 min Scan# 2588
Delta R.T. -0.030 min
Lab File: BF141361.D
Acq: 03 Feb 2025 11:24

Tgt Ion:276 Resp: 672962

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	23.6	19.0	28.4



Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	69	0.00
2		1,4-Dioxane	0.573	0.630	-9.9	81	-0.02
3		Pyridine	1.380	1.326	3.9	69	-0.02
4		n-Nitrosodimethylamine	0.789	0.841	-6.6	77	-0.04
5	S	2-Fluorophenol	1.303	1.313	-0.8	75	0.00
6		Aniline	1.403	1.302	7.2	66	-0.01
7	S	Phenol-d6	1.657	1.641	1.0	74	0.00
8		2-Chlorophenol	1.396	1.420	-1.7	75	0.00
9		Benzaldehyde	0.960	0.989	-3.0	76	0.00
10	C	Phenol	1.757	1.726	1.8	72	0.00
11		bis(2-Chloroethyl)ether	1.347	1.302	3.3	73	-0.01
12		1,3-Dichlorobenzene	1.540	1.572	-2.1	76	0.00
13	C	1,4-Dichlorobenzene	1.547	1.568	-1.4	75	0.00
14		1,2-Dichlorobenzene	1.448	1.472	-1.7	76	0.00
15		Benzyl Alcohol	1.133	1.213	-7.1	77	0.00
16		2,2'-oxybis(1-Chloropropane	2.342	2.200	6.1	69	0.00
17		2-Methylphenol	1.135	1.098	3.3	72	0.00
18		Hexachloroethane	0.571	0.590	-3.3	77	0.00
19	P	n-Nitroso-di-n-propylamine	0.985	0.973	1.2	75	-0.02
20		3+4-Methylphenols	1.393	1.446	-3.8	77	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	68	0.00
22		Acetophenone	0.475	0.501	-5.5	78	-0.01
23	S	Nitrobenzene-d5	0.379	0.397	-4.7	76	0.00
24		Nitrobenzene	0.393	0.407	-3.6	74	-0.01
25		Isophorone	0.656	0.653	0.5	73	-0.01
26	C	2-Nitrophenol	0.185	0.192	-3.8	74	0.00
27		2,4-Dimethylphenol	0.236	0.234	0.8	71	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.414	1.0	72	-0.01
29	C	2,4-Dichlorophenol	0.289	0.297	-2.8	75	0.00
30		1,2,4-Trichlorobenzene	0.330	0.335	-1.5	75	0.00
31		Naphthalene	1.057	1.079	-2.1	75	0.00
32		Benzoic acid	0.217	0.227	-4.6	70	-0.02
33		4-Chloroaniline	0.358	0.348	2.8	70	0.00
34	C	Hexachlorobutadiene	0.194	0.207	-6.7	79	0.00
35		Caprolactam	0.094	0.095	-1.1	72	-0.03
36	C	4-Chloro-3-methylphenol	0.310	0.324	-4.5	77	0.00
37		2-Methylnaphthalene	0.672	0.690	-2.7	75	0.00
38		1-Methylnaphthalene	0.660	0.672	-1.8	75	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	70	0.00
40		1,2,4,5-Tetrachlorobenzene	0.569	0.572	-0.5	75	0.00
41	P	Hexachlorocyclopentadiene	0.168	0.185	-10.1	75	0.00
42	S	2,4,6-Tribromophenol	0.183	0.200	-9.3	81	0.00
43	C	2,4,6-Trichlorophenol	0.372	0.384	-3.2	74	0.00
44		2,4,5-Trichlorophenol	0.405	0.416	-2.7	77	0.00
45	S	2-Fluorobiphenyl	1.299	1.315	-1.2	78	0.00
46		1,1'-Biphenyl	1.560	1.548	0.8	75	0.00
47		2-Chloronaphthalene	1.216	1.208	0.7	76	0.00

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.392	-2.6	76	0.00
49		Acenaphthylene	1.702	1.699	0.2	75	0.00
50		Dimethylphthalate	1.351	1.368	-1.3	78	-0.01
51		2,6-Dinitrotoluene	0.314	0.315	-0.3	75	0.00
52	C	Acenaphthene	1.216	1.239	-1.9	77	0.00
53		3-Nitroaniline	0.307	0.322	-4.9	75	0.00
54	P	2,4-Dinitrophenol	0.146	0.163	-11.6	78	0.00
55		Dibenzofuran	1.627	1.650	-1.4	76	0.00
56	P	4-Nitrophenol	0.225	0.256	-13.8	80	0.02
57		2,4-Dinitrotoluene	0.406	0.426	-4.9	77	-0.01
58		Fluorene	1.262	1.311	-3.9	79	-0.01
59		2,3,4,6-Tetrachlorophenol	0.319	0.342	-7.2	79	0.00
60		Diethylphthalate	1.310	1.343	-2.5	77	-0.01
61		4-Chlorophenyl-phenylether	0.617	0.635	-2.9	78	0.00
62		4-Nitroaniline	0.302	0.331	-9.6	80	-0.01
63		Azobenzene	1.311	1.313	-0.2	75	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	73	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.139	-17.8	81	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.658	-1.7	77	0.00
67		4-Bromophenyl-phenylether	0.224	0.234	-4.5	79	0.00
68		Hexachlorobenzene	0.238	0.249	-4.6	79	0.00
69		Atrazine	0.216	0.216	0.0	74	-0.01
70	C	Pentachlorophenol	0.139	0.152	-9.4	77	0.00
71		Phenanthrene	1.075	1.130	-5.1	80	0.00
72		Anthracene	1.053	1.117	-6.1	81	0.00
73		Carbazole	0.934	1.033	-10.6	84	0.00
74		Di-n-butylphthalate	1.132	1.220	-7.8	82	0.00
75	C	Fluoranthene	1.062	1.211	-14.0	87	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	93	0.00
77		Benzidine	0.641	0.626	2.3	80	0.00
78		Pyrene	1.920	1.679	12.6	89	0.00
79	S	Terphenyl-d14	1.297	1.144	11.8	90	0.00
80		Butylbenzylphthalate	0.671	0.642	4.3	96	0.00
81		Benzo(a)anthracene	1.380	1.322	4.2	97	0.00
82		3,3'-Dichlorobenzidine	0.439	0.436	0.7	97	0.00
83		Chrysene	1.265	1.235	2.4	102	0.00
84		Bis(2-ethylhexyl)phthalate	0.851	0.896	-5.3	107	-0.01
85	c	Di-n-octyl phthalate	1.321	1.471	-11.4	112	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	102	-0.01
87		Indeno(1,2,3-cd)pyrene	1.291	1.398	-8.3	113	-0.02
88		Benzo(b)fluoranthene	1.258	1.389	-10.4	126	-0.01
89		Benzo(k)fluoranthene	1.114	1.030	7.5	97	-0.01
90	C	Benzo(a)pyrene	1.063	1.103	-3.8	111	-0.01
91		Dibenzo(a,h)anthracene	1.039	1.124	-8.2	113	-0.02
92		Benzo(g,h,i)perylene	1.080	1.182	-9.4	115	-0.03

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	69	0.00
2		1,4-Dioxane	40.000	44.012	-10.0	81	-0.02
3		Pyridine	40.000	38.431	3.9	69	-0.02
4		n-Nitrosodimethylamine	40.000	42.660	-6.6	77	-0.04
5	S	2-Fluorophenol	80.000	80.639	-0.8	75	0.00
6		Aniline	40.000	37.112	7.2	66	-0.01
7	S	Phenol-d6	80.000	79.215	1.0	74	0.00
8		2-Chlorophenol	40.000	40.687	-1.7	75	0.00
9		Benzaldehyde	40.000	41.190	-3.0	76	0.00
10	C	Phenol	40.000	39.294	1.8	72	0.00
11		bis(2-Chloroethyl)ether	40.000	38.659	3.4	73	-0.01
12		1,3-Dichlorobenzene	40.000	40.844	-2.1	76	0.00
13	C	1,4-Dichlorobenzene	40.000	40.554	-1.4	75	0.00
14		1,2-Dichlorobenzene	40.000	40.649	-1.6	76	0.00
15		Benzyl Alcohol	40.000	42.844	-7.1	77	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.563	6.1	69	0.00
17		2-Methylphenol	40.000	38.689	3.3	72	0.00
18		Hexachloroethane	40.000	41.383	-3.5	77	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.542	1.1	75	-0.02
20		3+4-Methylphenols	40.000	41.520	-3.8	77	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	68	0.00
22		Acetophenone	40.000	42.153	-5.4	78	-0.01
23	S	Nitrobenzene-d5	80.000	83.781	-4.7	76	0.00
24		Nitrobenzene	40.000	41.381	-3.5	74	-0.01
25		Isophorone	40.000	39.825	0.4	73	-0.01
26	C	2-Nitrophenol	40.000	41.467	-3.7	74	0.00
27		2,4-Dimethylphenol	40.000	39.629	0.9	71	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.540	1.2	72	-0.01
29	C	2,4-Dichlorophenol	40.000	41.114	-2.8	75	0.00
30		1,2,4-Trichlorobenzene	40.000	40.654	-1.6	75	0.00
31		Naphthalene	40.000	40.850	-2.1	75	0.00
32		Benzoic acid	40.000	41.864	-4.7	70	-0.02
33		4-Chloroaniline	40.000	38.830	2.9	70	0.00
34	C	Hexachlorobutadiene	40.000	42.830	-7.1	79	0.00
35		Caprolactam	40.000	40.128	-0.3	72	-0.03
36	C	4-Chloro-3-methylphenol	40.000	41.805	-4.5	77	0.00
37		2-Methylnaphthalene	40.000	41.088	-2.7	75	0.00
38		1-Methylnaphthalene	40.000	40.770	-1.9	75	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	70	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.237	-0.6	75	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.983	-10.0	75	0.00
42	S	2,4,6-Tribromophenol	80.000	87.321	-9.2	81	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.248	-3.1	74	0.00
44		2,4,5-Trichlorophenol	40.000	41.031	-2.6	77	0.00
45	S	2-Fluorobiphenyl	80.000	80.940	-1.2	78	0.00
46		1,1'-Biphenyl	40.000	39.699	0.8	75	0.00
47		2-Chloronaphthalene	40.000	39.740	0.6	76	0.00

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	41.055	-2.6	76	0.00
49		Acenaphthylene	40.000	39.923	0.2	75	0.00
50		Dimethylphthalate	40.000	40.523	-1.3	78	-0.01
51		2,6-Dinitrotoluene	40.000	40.149	-0.4	75	0.00
52	C	Acenaphthene	40.000	40.755	-1.9	77	0.00
53		3-Nitroaniline	40.000	41.859	-4.6	75	0.00
54	P	2,4-Dinitrophenol	40.000	44.625	-11.6	78	0.00
55		Dibenzofuran	40.000	40.548	-1.4	76	0.00
56	P	4-Nitrophenol	40.000	45.471	-13.7	80	0.02
57		2,4-Dinitrotoluene	40.000	41.946	-4.9	77	-0.01
58		Fluorene	40.000	41.554	-3.9	79	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	42.892	-7.2	79	0.00
60		Diethylphthalate	40.000	41.025	-2.6	77	-0.01
61		4-Chlorophenyl-phenylether	40.000	41.170	-2.9	78	0.00
62		4-Nitroaniline	40.000	43.865	-9.7	80	-0.01
63		Azobenzene	40.000	40.048	-0.1	75	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	73	0.00
65		4,6-Dinitro-2-methylphenol	40.000	46.869	-17.2	81	0.00
66	c	n-Nitrosodiphenylamine	40.000	40.682	-1.7	77	0.00
67		4-Bromophenyl-phenylether	40.000	41.715	-4.3	79	0.00
68		Hexachlorobenzene	40.000	41.866	-4.7	79	0.00
69		Atrazine	40.000	39.975	0.1	74	-0.01
70	C	Pentachlorophenol	40.000	43.745	-9.4	77	0.00
71		Phenanthrene	40.000	42.056	-5.1	80	0.00
72		Anthracene	40.000	42.420	-6.1	81	0.00
73		Carbazole	40.000	44.227	-10.6	84	0.00
74		Di-n-butylphthalate	40.000	43.100	-7.8	82	0.00
75	C	Fluoranthene	40.000	45.626	-14.1	87	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	93	0.00
77		Benzidine	40.000	39.082	2.3	80	0.00
78		Pyrene	40.000	34.986	12.5	89	0.00
79	S	Terphenyl-d14	80.000	70.570	11.8	90	0.00
80		Butylbenzylphthalate	40.000	38.308	4.2	96	0.00
81		Benzo(a)anthracene	40.000	38.325	4.2	97	0.00
82		3,3'-Dichlorobenzidine	40.000	39.687	0.8	97	0.00
83		Chrysene	40.000	39.050	2.4	102	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	42.145	-5.4	107	-0.01
85	c	Di-n-octyl phthalate	40.000	44.516	-11.3	112	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	102	-0.01
87		Indeno(1,2,3-cd)pyrene	40.000	43.334	-8.3	113	-0.02
88		Benzo(b)fluoranthene	40.000	44.175	-10.4	126	-0.01
89		Benzo(k)fluoranthene	40.000	36.950	7.6	97	-0.01
90	C	Benzo(a)pyrene	40.000	41.504	-3.8	111	-0.01
91		Dibenzo(a,h)anthracene	40.000	43.298	-8.2	113	-0.02
92		Benzo(g,h,i)perylene	40.000	43.768	-9.4	115	-0.03

Sample Results: **BF141361.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141361.D
Acq On : 03 Feb 2025 11:24
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 03 11:47:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Instrument ID: BNA_F Calibration Date/Time: 02/03/2025 17:14

Lab File ID: BF141373.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.232		-10.7	
2-Fluorophenol	1.303	1.302		-0.1	
Phenol-d6	1.657	1.598		-3.6	
1,4-Dichlorobenzene	1.547	1.570		1.5	20.0
2-Methylphenol	1.135	1.109		-2.3	
3+4-Methylphenols	1.393	1.420		1.9	
Nitrobenzene-d5	0.379	0.382		0.8	
Hexachloroethane	0.571	0.590		3.3	
Nitrobenzene	0.393	0.389		-1.0	
Hexachlorobutadiene	0.194	0.204		5.2	20.0
2,4,6-Trichlorophenol	0.372	0.380		2.2	20.0
2-Fluorobiphenyl	1.299	1.292		-0.5	
2,4,5-Trichlorophenol	0.405	0.413		2.0	
2,4-Dinitrotoluene	0.406	0.423		4.2	
2,4,6-Tribromophenol	0.183	0.194		6.0	
Hexachlorobenzene	0.238	0.244		2.5	
Pentachlorophenol	0.139	0.157		12.9	20.0
Terphenyl-d14	1.297	1.274		-1.8	

All other compounds must meet a minimum RRF of 0.010.

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.798	152	104167	20.000	ng		0.00
21) Naphthalene-d8	8.081	136	414412	20.000	ng		0.00
39) Acenaphthene-d10	9.833	164	226326	20.000	ng		0.00
64) Phenanthrene-d10	11.322	188	383558	20.000	ng		0.00
76) Chrysene-d12	13.963	240	233911	20.000	ng		-0.01
86) Perylene-d12	15.415	264	231577	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.410	112	542601	79.968	ng		0.00
7) Phenol-d6	6.439	99	665791	77.133	ng		0.00
23) Nitrobenzene-d5	7.363	82	632818	80.499	ng		0.00
42) 2,4,6-Tribromophenol	10.627	330	175756	84.706	ng		0.00
45) 2-Fluorobiphenyl	9.157	172	1169231	79.517	ng		0.00
79) Terphenyl-d14	12.910	244	1192221	78.604	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.475	88	121152	40.599	ng		100
3) Pyridine	3.210	79	256725	35.706	ng		99
4) n-Nitrosodimethylamine	3.163	42	171120	41.662	ng		93
6) Aniline	6.457	93	214496	29.356	ng	#	6
8) 2-Chlorophenol	6.587	128	289746	39.841	ng		97
9) Benzaldehyde	6.345	77	216223	43.247	ng		99
10) Phenol	6.451	94	352818	38.559	ng		79
11) bis(2-Chloroethyl)ether	6.534	93	272822	38.887	ng		100
12) 1,3-Dichlorobenzene	6.734	146	319939	39.899	ng		100
13) 1,4-Dichlorobenzene	6.816	146	327100	40.605	ng		99
14) 1,2-Dichlorobenzene	6.969	146	306404	40.620	ng		99
15) Benzyl Alcohol	6.939	79	249700	42.330	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.075	45	456565	37.424	ng		76
17) 2-Methylphenol	7.063	107	231097	39.098	ng	#	91
18) Hexachloroethane	7.310	117	122966	41.378	ng		97
19) n-Nitroso-di-n-propyla...	7.210	70	204348	39.842	ng		99
20) 3+4-Methylphenols	7.210	107	295742	40.751	ng		96
22) Acetophenone	7.204	105	403113	40.923	ng	#	97
24) Nitrobenzene	7.381	77	322702	39.612	ng		98
25) Isophorone	7.616	82	541055	39.816	ng		99
26) 2-Nitrophenol	7.692	139	155896	40.576	ng		96
27) 2,4-Dimethylphenol	7.739	122	196433m	40.168	ng		
28) bis(2-Chloroethoxy)met...	7.828	93	338131	39.010	ng		99
29) 2,4-Dichlorophenol	7.945	162	242512	40.508	ng		99
30) 1,2,4-Trichlorobenzene	8.022	180	271821	39.757	ng		100
31) Naphthalene	8.098	128	867292	39.616	ng		100
32) Benzoic acid	7.857	122	193009	42.934	ng		98
33) 4-Chloroaniline	8.151	127	242580	32.676	ng		99
34) Hexachlorobutadiene	8.216	225	168912	42.128	ng		99
35) Caprolactam	8.516	113	79702	40.764	ng		98
36) 4-Chloro-3-methylphenol	8.639	107	263711	41.066	ng		96
37) 2-Methylnaphthalene	8.792	142	556906	40.024	ng		99
38) 1-Methylnaphthalene	8.886	142	547195	40.034	ng		99
40) 1,2,4,5-Tetrachloroben...	8.957	216	258626	40.167	ng		100
41) Hexachlorocyclopentadiene	8.939	237	83996	44.173	ng		100
43) 2,4,6-Trichlorophenol	9.069	196	171810	40.768	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.122	196	186902	40.747	ng	100
46) 1,1'-Biphenyl	9.257	154	695314	39.393	ng	99
47) 2-Chloronaphthalene	9.280	162	541319	39.346	ng	99
48) 2-Nitroaniline	9.375	65	175746	40.613	ng	96
49) Acenaphthylene	9.692	152	761884	39.561	ng	100
50) Dimethylphthalate	9.557	163	614225	40.182	ng	99
51) 2,6-Dinitrotoluene	9.622	165	142423	40.128	ng	100
52) Acenaphthene	9.869	154	554750	40.321	ng	99
53) 3-Nitroaniline	9.786	138	140545	40.403	ng	98
54) 2,4-Dinitrophenol	9.892	184	76994	46.667	ng	91
55) Dibenzofuran	10.039	168	727950	39.528	ng	98
56) 4-Nitrophenol	9.969	139	106562	41.887	ng	94
57) 2,4-Dinitrotoluene	10.022	165	191425	41.657	ng	97
58) Fluorene	10.380	166	581931	40.737	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	152033	42.131	ng	98
60) Diethylphthalate	10.257	149	609242	41.105	ng	99
61) 4-Chlorophenyl-phenyle...	10.375	204	280983	40.268	ng	97
62) 4-Nitroaniline	10.404	138	147941	43.258	ng	96
63) Azobenzene	10.533	77	585808	39.486	ng	99
65) 4,6-Dinitro-2-methylph...	10.433	198	107093	47.204	ng	97
66) n-Nitrosodiphenylamine	10.492	169	492539	39.703	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	179324	41.761	ng	98
68) Hexachlorobenzene	10.927	284	186820	41.015	ng	98
69) Atrazine	11.022	200	166008	40.023	ng	99
70) Pentachlorophenol	11.127	266	120209	45.068	ng	98
71) Phenanthrene	11.345	178	840073	40.745	ng	100
72) Anthracene	11.398	178	829686	41.070	ng	100
73) Carbazole	11.551	167	749638	41.848	ng	99
74) Di-n-butylphthalate	11.886	149	917962	42.285	ng	100
75) Fluoranthene	12.533	202	861847	42.335	ng	98
77) Benzidine	12.657	184	219025	29.208	ng	99
78) Pyrene	12.763	202	860076	38.305	ng	100
80) Butylbenzylphthalate	13.380	149	328897	41.929	ng	99
81) Benzo(a)anthracene	13.951	228	604276	37.437	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	198361	38.639	ng	99
83) Chrysene	13.986	228	580099	39.215	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	436237	43.840	ng	99
85) Di-n-octyl phthalate	14.562	149	689323	44.601	ng	100
87) Indeno(1,2,3-cd)pyrene	16.862	276	626825	41.938	ng	98
88) Benzo(b)fluoranthene	14.998	252	571343	39.222	ng	99
89) Benzo(k)fluoranthene	15.027	252	534749	41.439	ng	99
90) Benzo(a)pyrene	15.357	252	503731	40.922	ng	99
91) Dibenzo(a,h)anthracene	16.880	278	510363	42.442	ng	98
92) Benzo(g,h,i)perylene	17.298	276	518300	41.452	ng	98

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

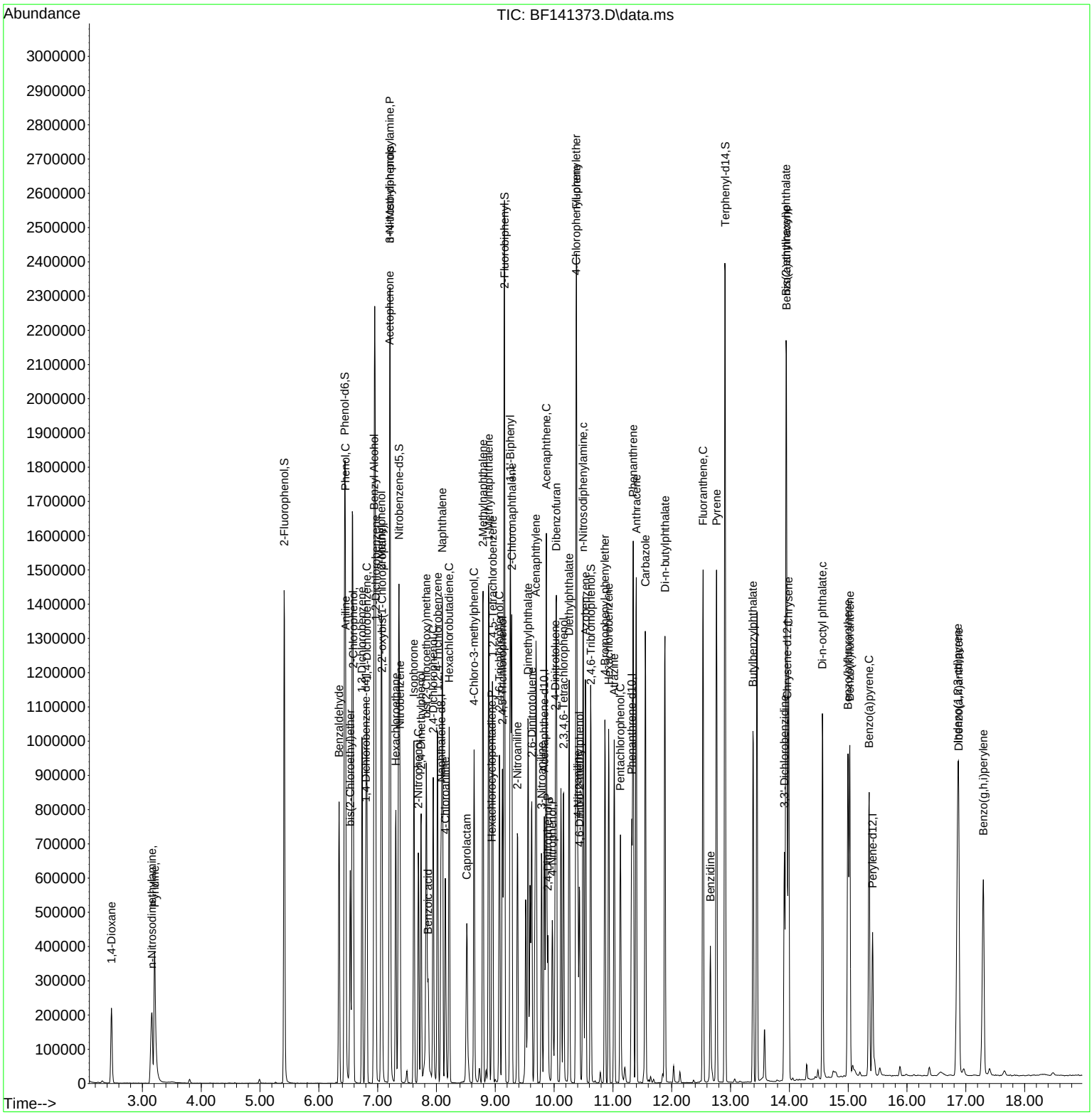
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

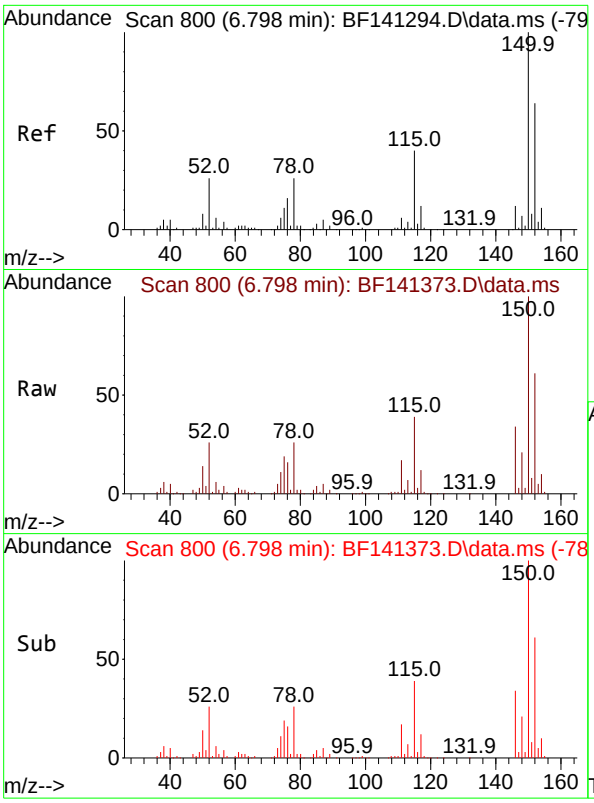
Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

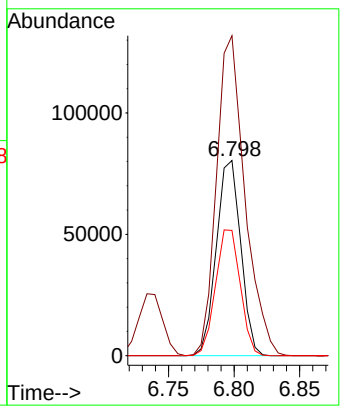




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:152 Resp: 10416

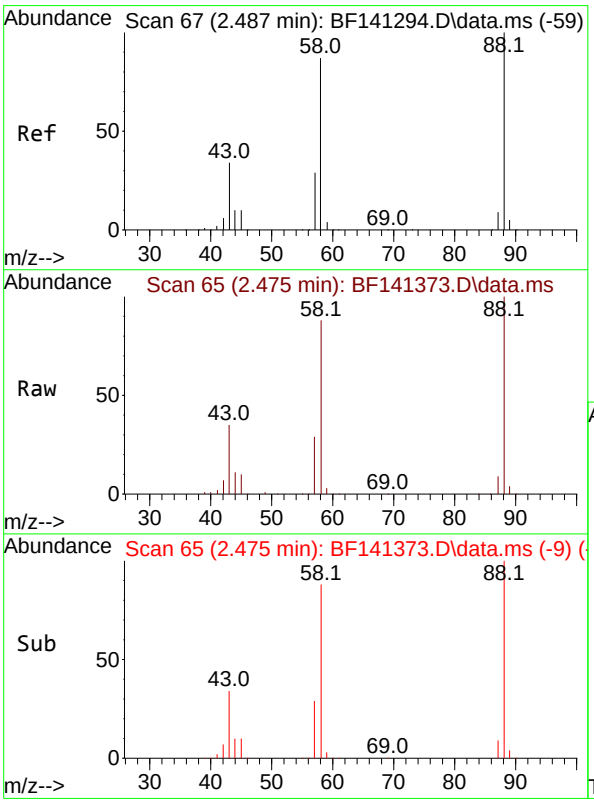
Ion	Ratio	Lower	Upper
152	100		
150	163.9	125.9	188.9
115	64.2	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

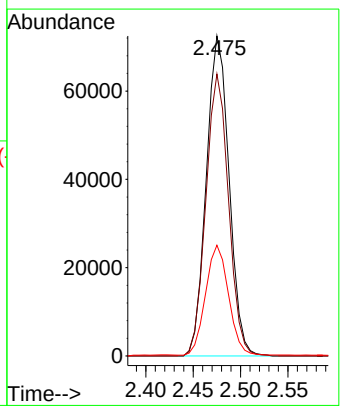
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

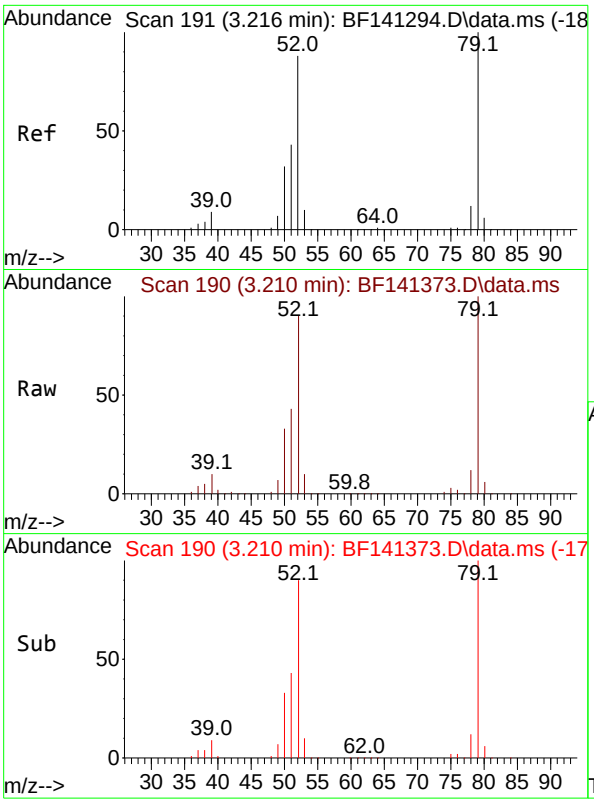


#2
1,4-Dioxane
Concen: 40.599 ng
RT: 2.475 min Scan# 65
Delta R.T. -0.018 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 88 Resp: 121152

Ion	Ratio	Lower	Upper
88	100		
58	87.5	70.2	105.4
43	34.6	27.6	41.4

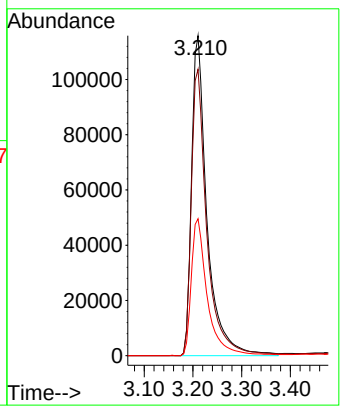




#3
Pyridine
Concen: 35.706 ng
RT: 3.210 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 79 Resp: 25672

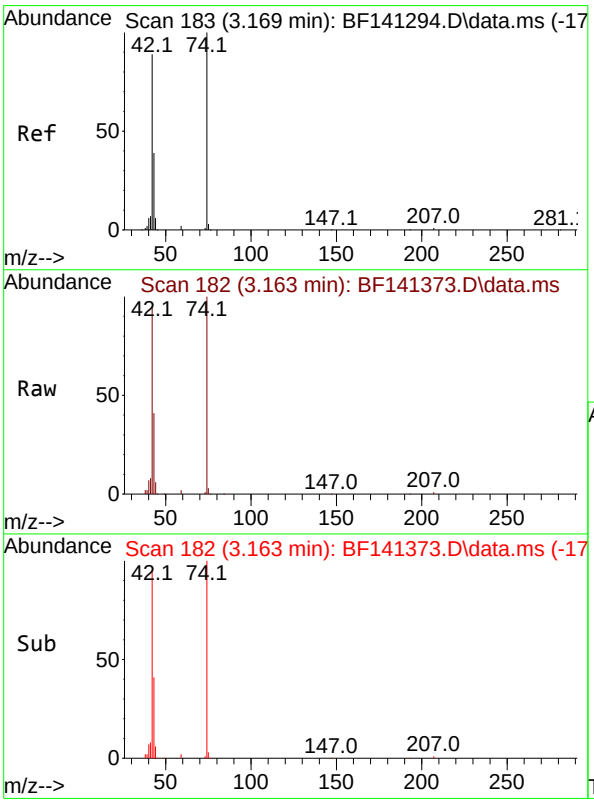
Ion	Ratio	Lower	Upper
79	100		
52	89.5	70.3	105.5
51	42.8	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

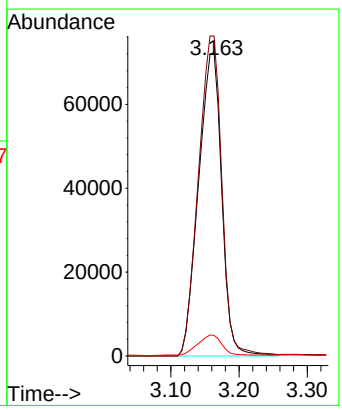
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

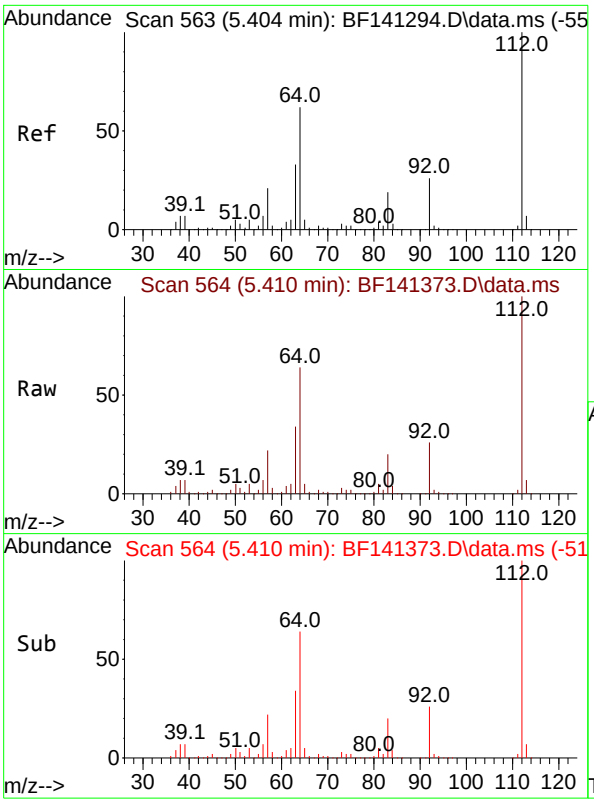


#4
n-Nitrosodimethylamine
Concen: 41.662 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.035 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 42 Resp: 171120

Ion	Ratio	Lower	Upper
42	100		
74	105.3	90.3	135.5
44	6.8	5.7	8.5





#5
2-Fluorophenol
Concen: 79.968 ng
RT: 5.410 min Scan# 5
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

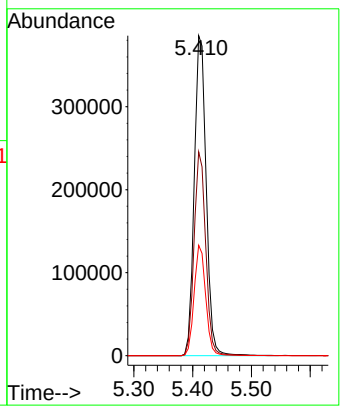
Tgt Ion:112 Resp: 54260

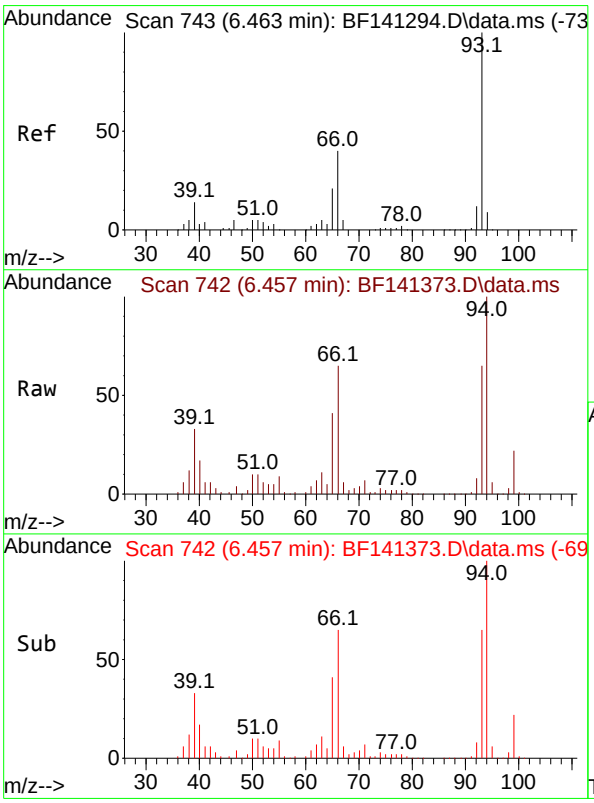
Ion	Ratio	Lower	Upper
112	100		
64	63.7	49.8	74.8
63	34.5	26.1	39.1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

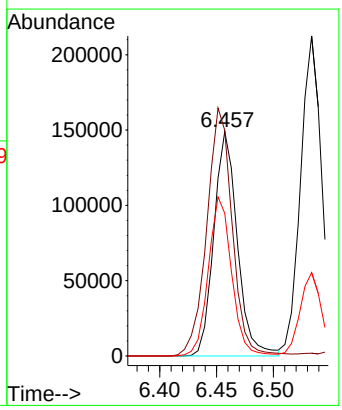


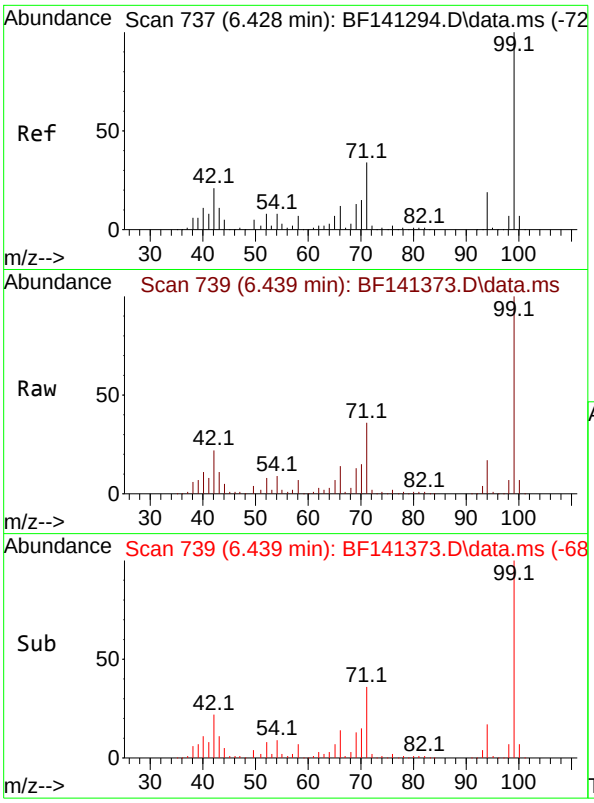


#6
Aniline
Concen: 29.356 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 93 Resp: 214496

Ion	Ratio	Lower	Upper
93	100		
66	100.5	32.5	48.7#
65	63.5	17.0	25.6#

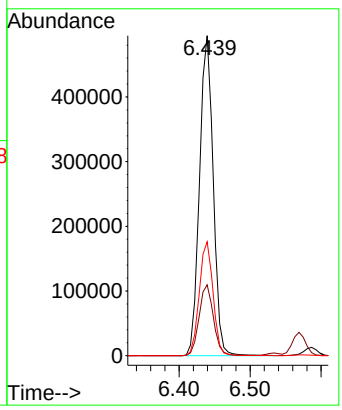




#7
Phenol-d6
Concen: 77.133 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 99 Resp: 66579

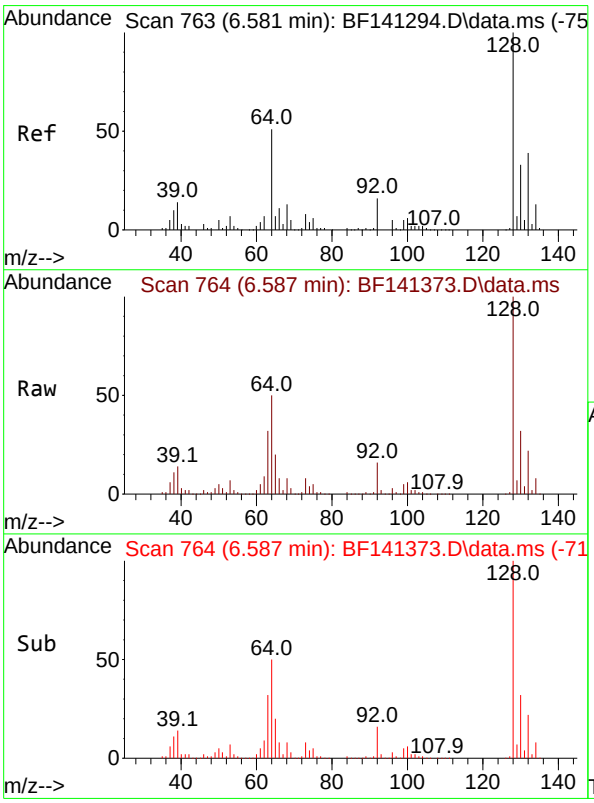
Ion	Ratio	Lower	Upper
99	100		
42	22.1	17.1	25.7
71	35.6	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

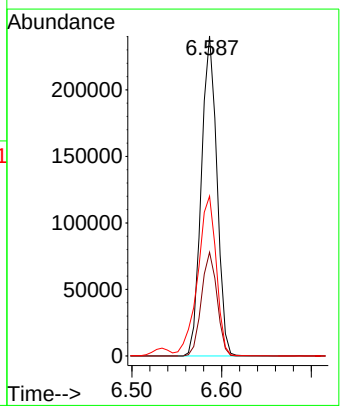
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

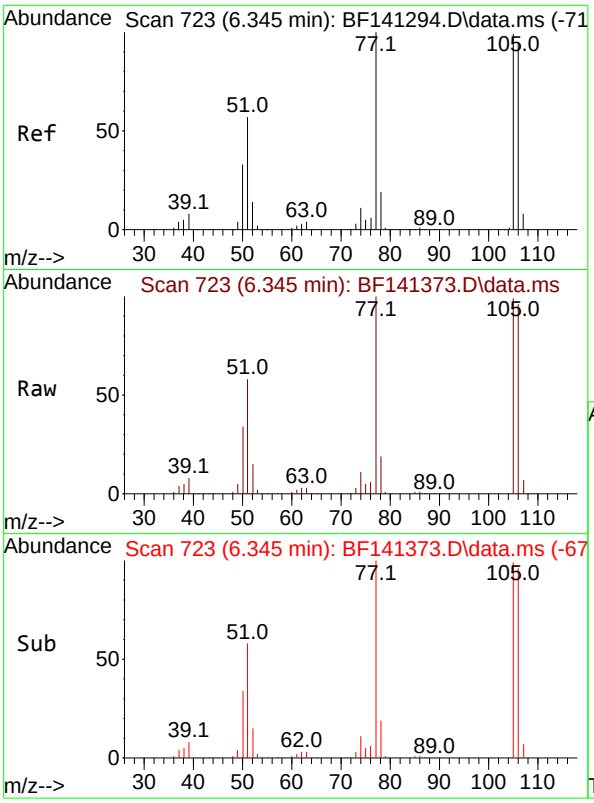


#8
2-Chlorophenol
Concen: 39.841 ng
RT: 6.587 min Scan# 764
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:128 Resp: 289746

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.5	52.5
64	50.0	32.9	72.9

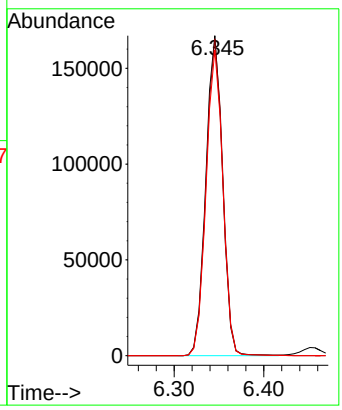




#9
Benzaldehyde
Concen: 43.247 ng
RT: 6.345 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 77 Resp: 21622

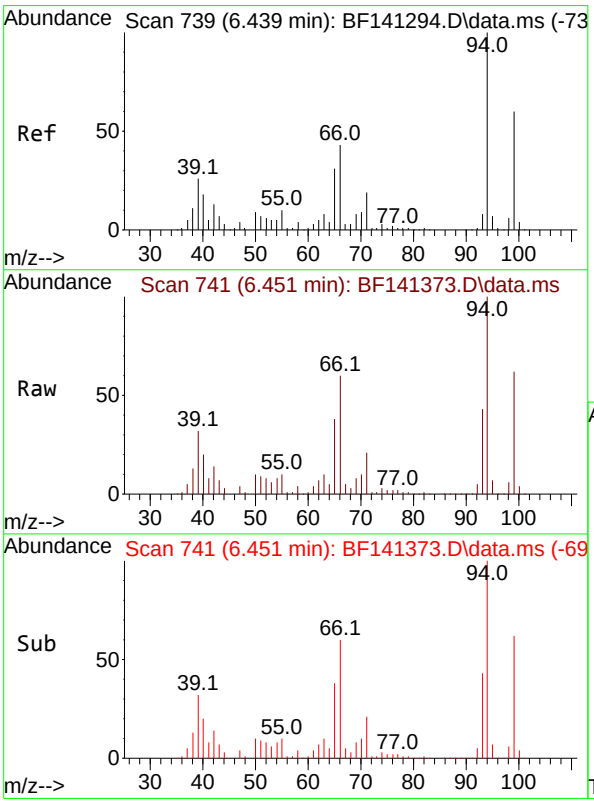
Ion	Ratio	Lower	Upper
77	100		
105	99.0	79.4	119.4
106	95.5	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

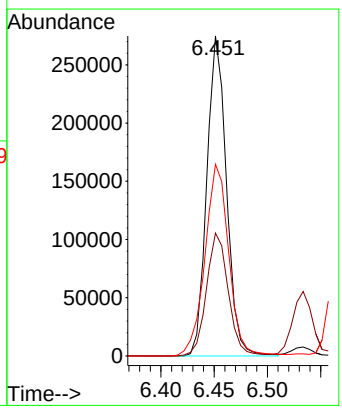
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

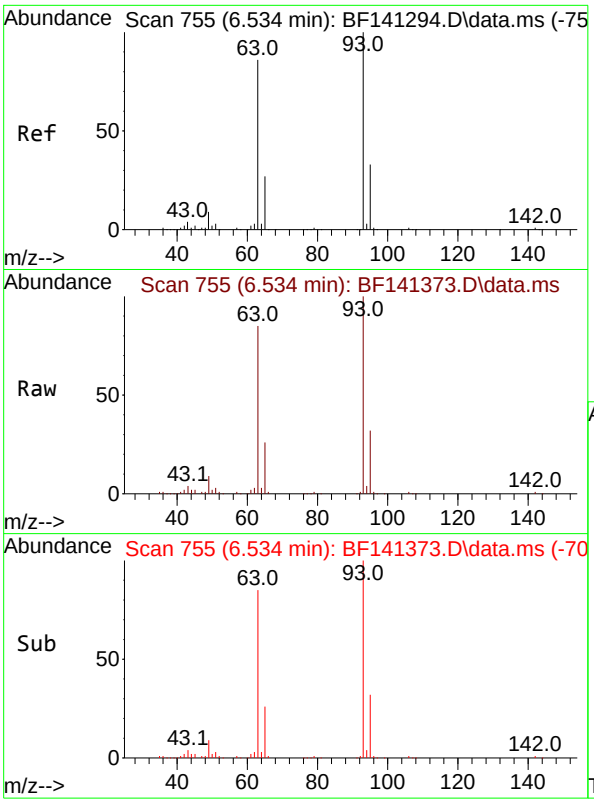


#10
Phenol
Concen: 38.559 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 94 Resp: 352818

Ion	Ratio	Lower	Upper
94	100		
65	38.4	10.8	50.8
66	59.9	23.3	63.3





#11
bis(2-Chloroethyl)ether
Concen: 38.887 ng
RT: 6.534 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

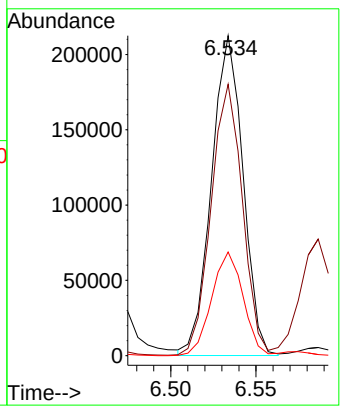
Tgt Ion: 93 Resp: 27282

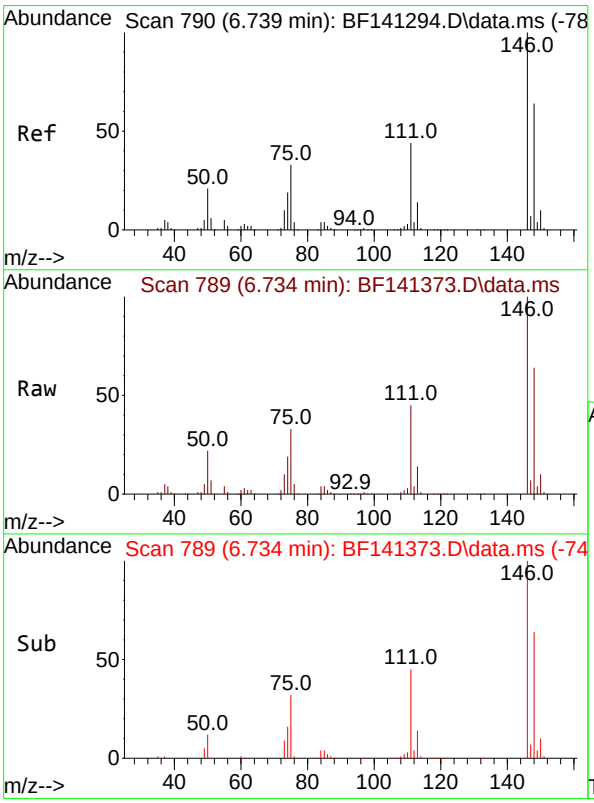
Ion	Ratio	Lower	Upper
93	100		
63	84.8	65.0	105.0
95	32.4	12.4	52.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

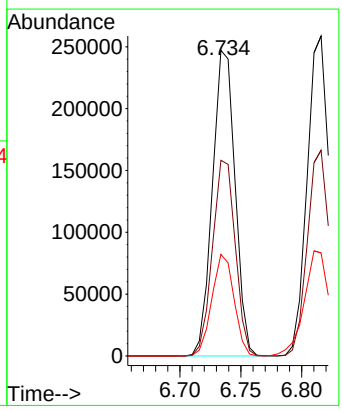


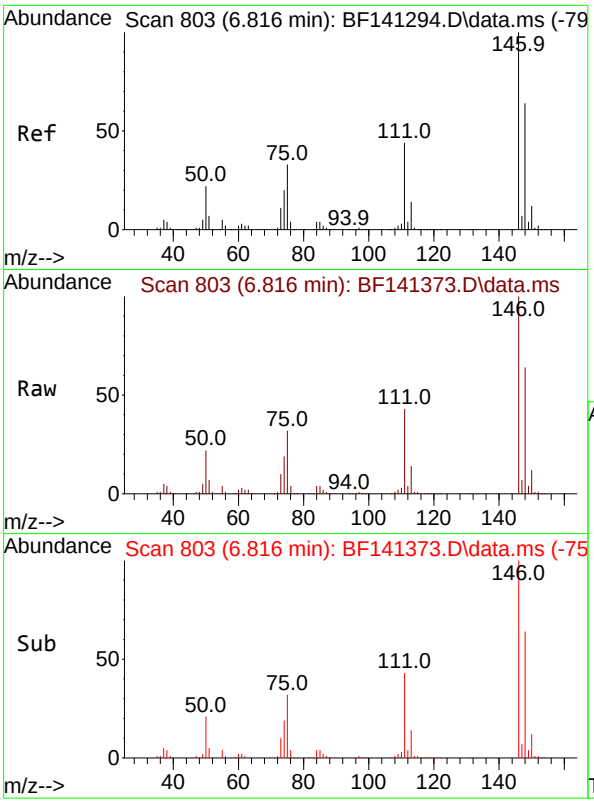


#12
1,3-Dichlorobenzene
Concen: 39.899 ng
RT: 6.734 min Scan# 789
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:146 Resp: 319939

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.2	76.8
75	33.3	26.2	39.4

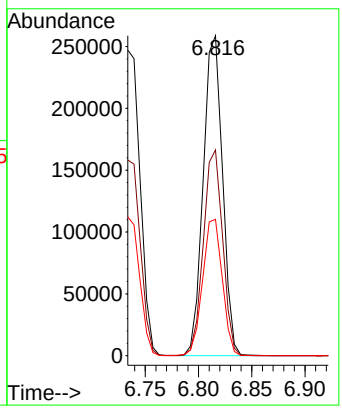




#13
1,4-Dichlorobenzene
Concen: 40.605 ng
RT: 6.816 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:146 Resp: 32710

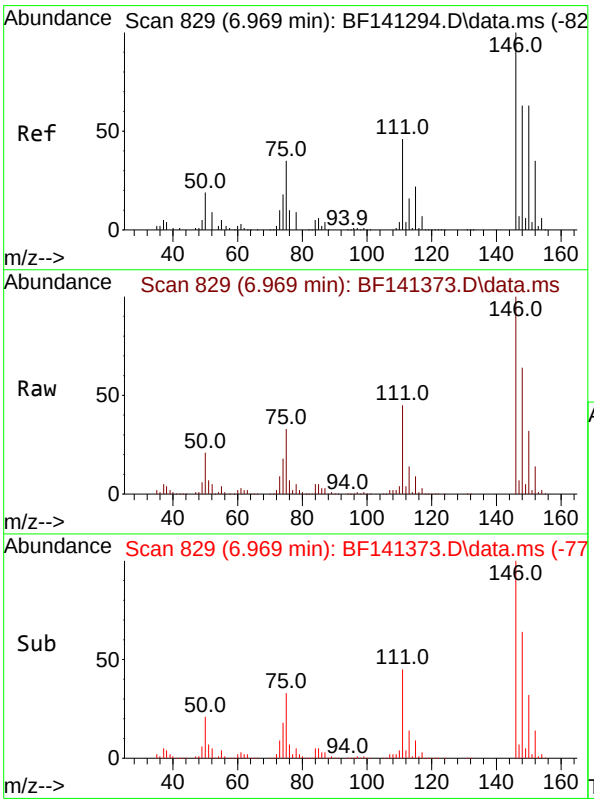
Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.2	76.8
111	42.6	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

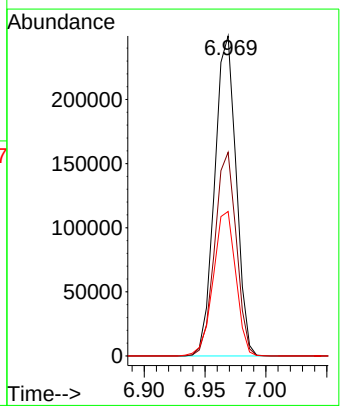
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

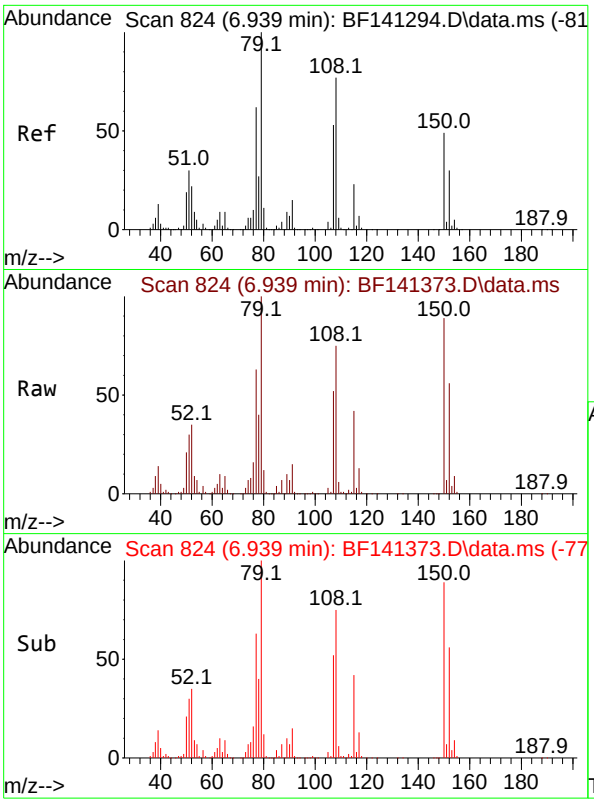


#14
1,2-Dichlorobenzene
Concen: 40.620 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:146 Resp: 306404

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.5	75.7
111	45.2	36.6	55.0

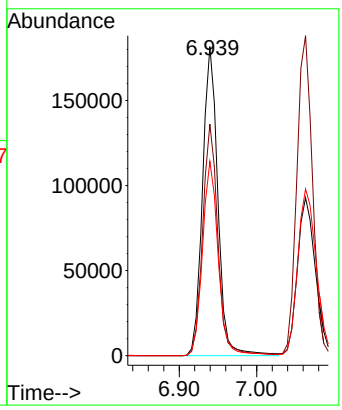




#15
Benzyl Alcohol
Concen: 42.330 ng
RT: 6.939 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 79 Resp: 24970

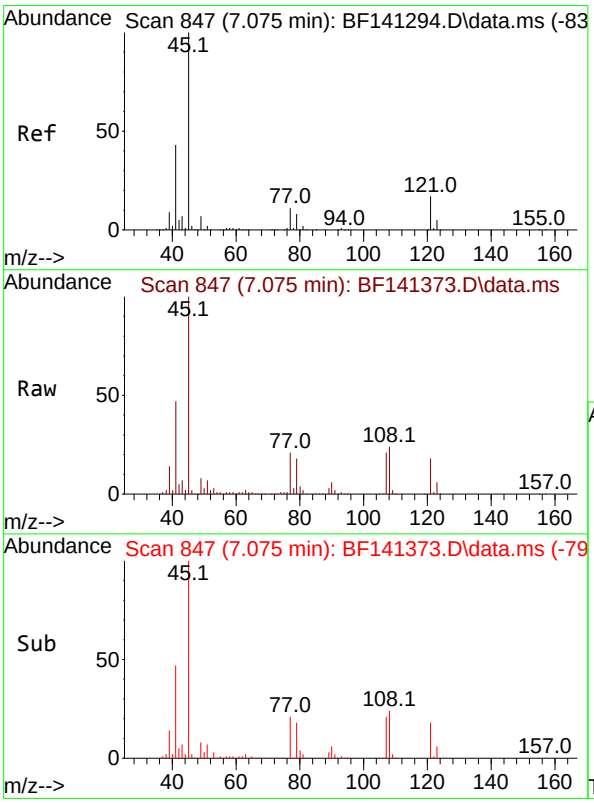
Ion	Ratio	Lower	Upper
79	100		
108	74.9	61.4	92.0
77	62.9	49.9	74.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

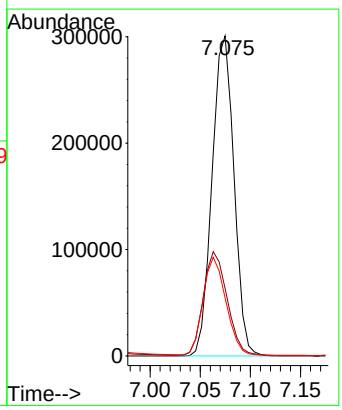
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

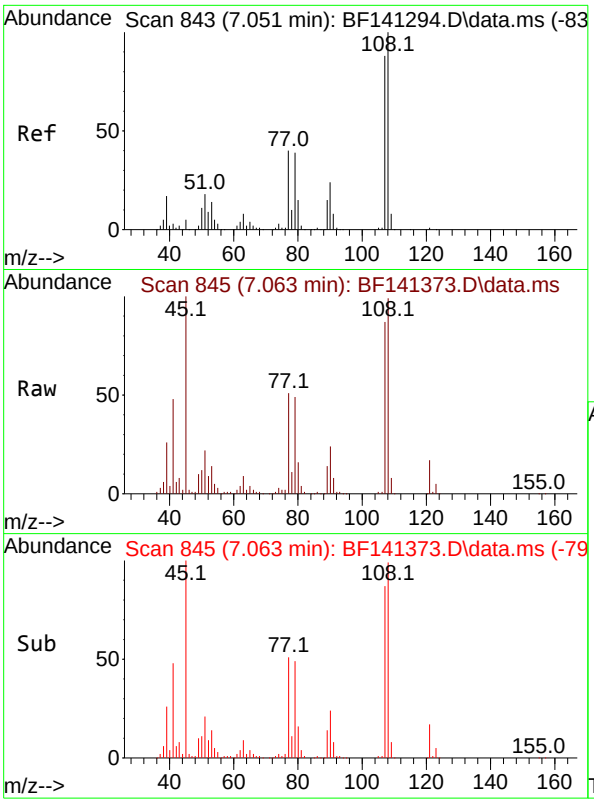


#16
2,2'-oxybis(1-Chloropropane)
Concen: 37.424 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 45 Resp: 456565

Ion	Ratio	Lower	Upper
45	100		
77	21.1	0.0	31.8
79	18.1	0.0	29.1

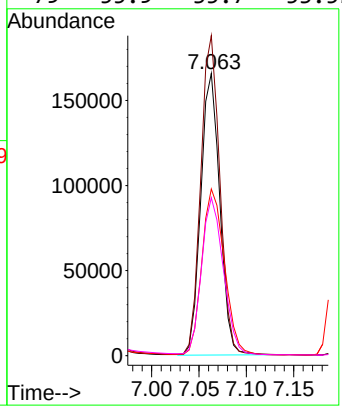




#17
2-Methylphenol
Concen: 39.098 ng
RT: 7.063 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:107 Resp: 23109

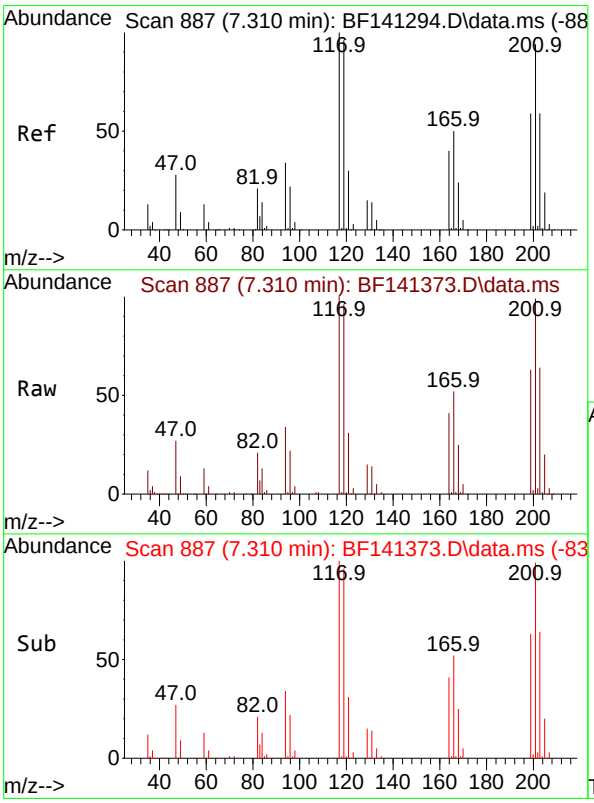
Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.8	136.2
77	59.1	36.2	54.4#
79	55.9	35.7	53.5#



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

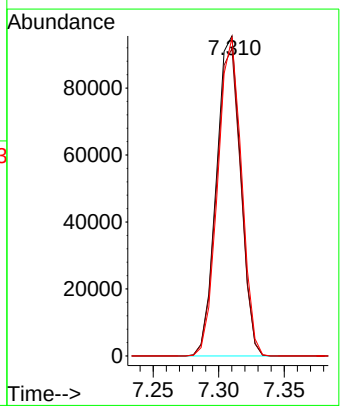
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

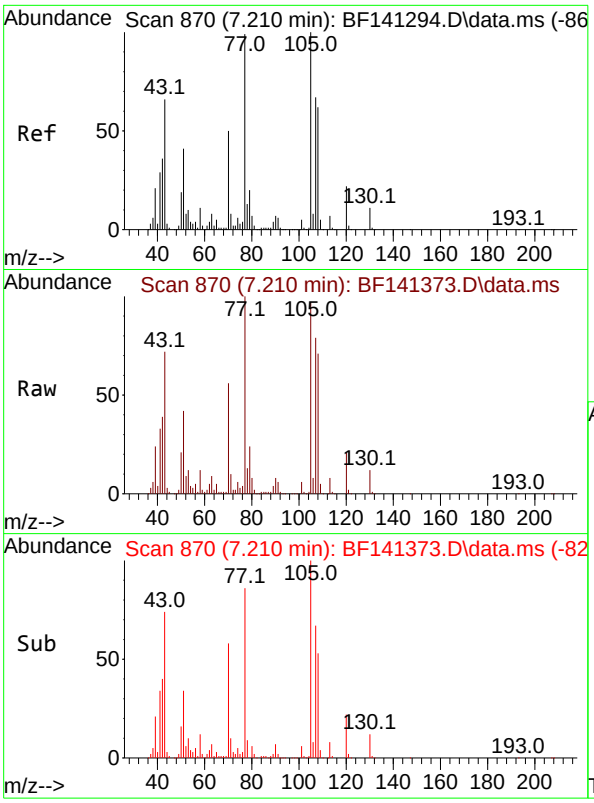


#18
Hexachloroethane
Concen: 41.378 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:117 Resp: 122966

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.6	114.8
201	99.4	74.8	112.2

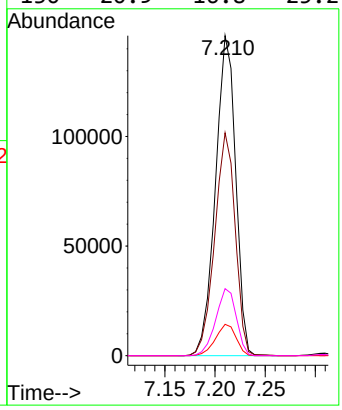




#19
n-Nitroso-di-n-propylamine
Concen: 39.842 ng
RT: 7.210 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 70 Resp: 20434

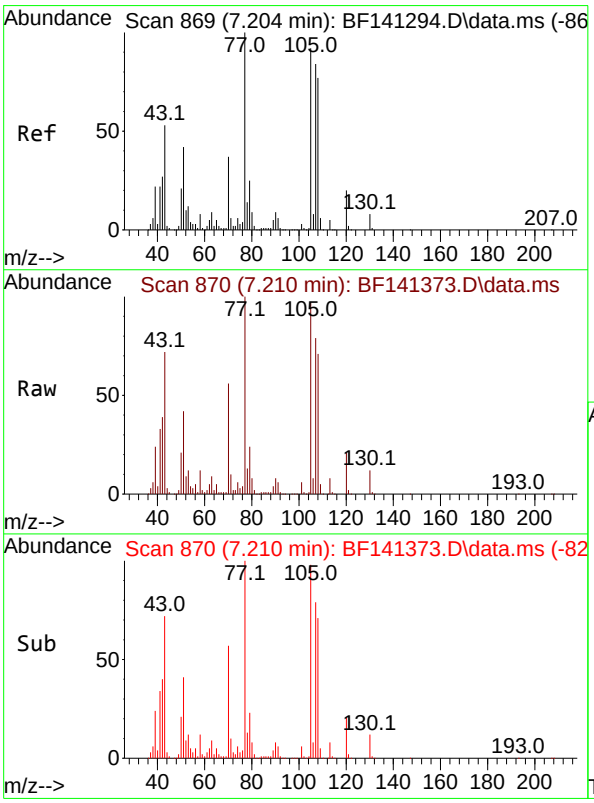
Ion	Ratio	Lower	Upper
70	100		
42	69.6	56.8	85.2
101	9.8	7.7	11.5
130	20.9	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

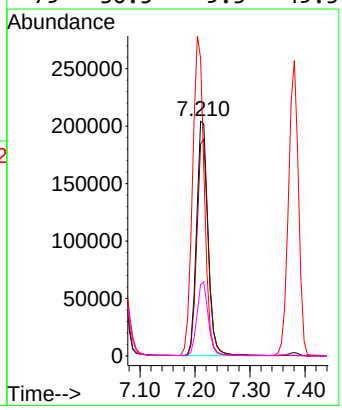
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

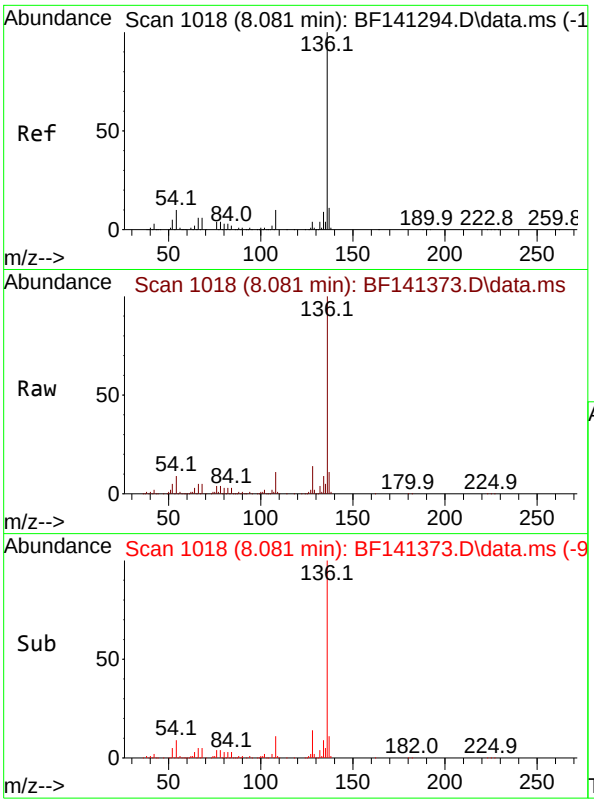


#20
3+4-Methylphenols
Concen: 40.751 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:107 Resp: 295742

Ion	Ratio	Lower	Upper
107	100		
108	90.3	70.9	110.9
77	126.9	98.5	138.5
79	30.5	9.5	49.5

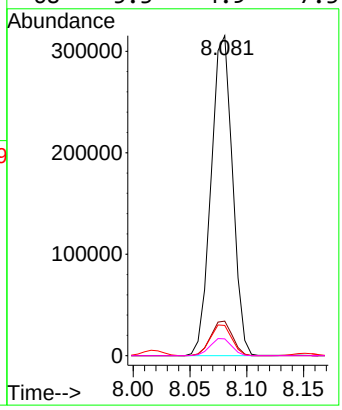




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:136 Resp: 41441

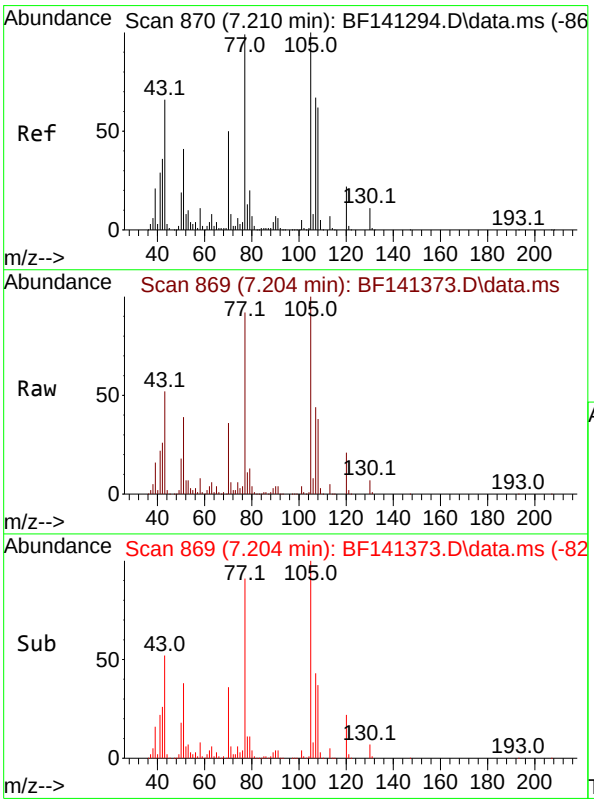
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	9.5	7.8	11.8
68	5.3	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

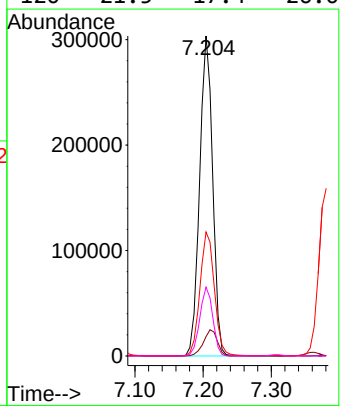
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

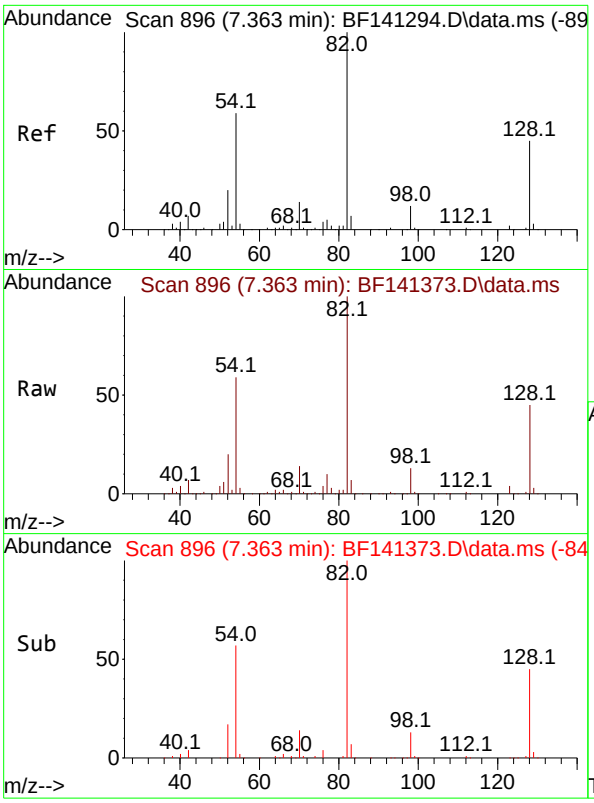


#22
Acetophenone
Concen: 40.923 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:105 Resp: 403113

Ion	Ratio	Lower	Upper
105	100		
71	6.0	6.8	10.2#
51	38.8	32.6	49.0
120	21.5	17.4	26.0

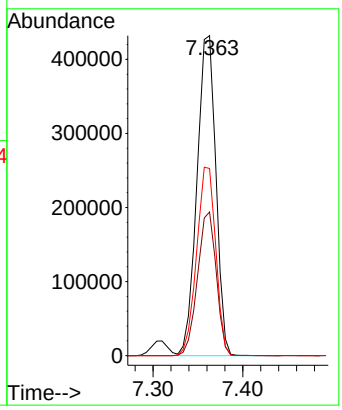




#23
Nitrobenzene-d5
Concen: 80.499 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 82 Resp: 63281

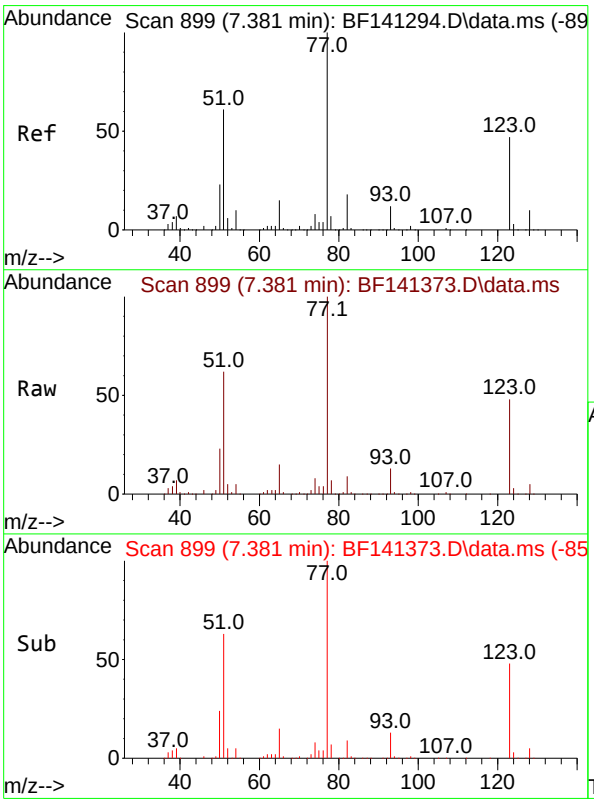
Ion	Ratio	Lower	Upper
82	100		
128	44.9	35.7	53.5
54	58.5	47.1	70.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

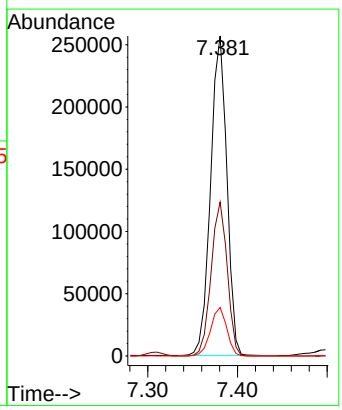
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

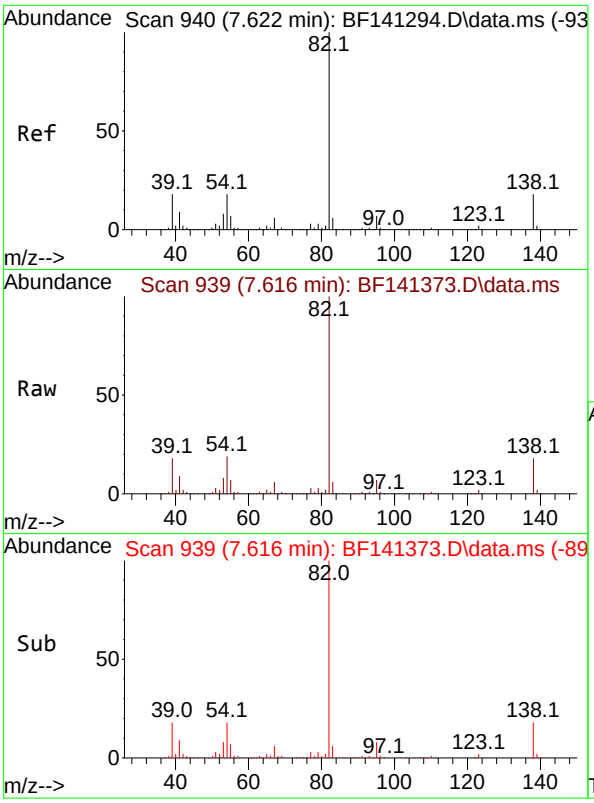


#24
Nitrobenzene
Concen: 39.612 ng
RT: 7.381 min Scan# 899
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 77 Resp: 322702

Ion	Ratio	Lower	Upper
77	100		
123	48.1	37.3	55.9
65	15.1	11.8	17.6

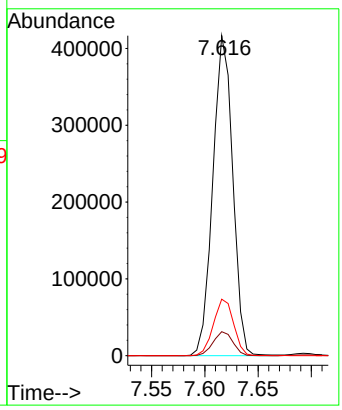




#25
Isophorone
Concen: 39.816 ng
RT: 7.616 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 82 Resp: 54105

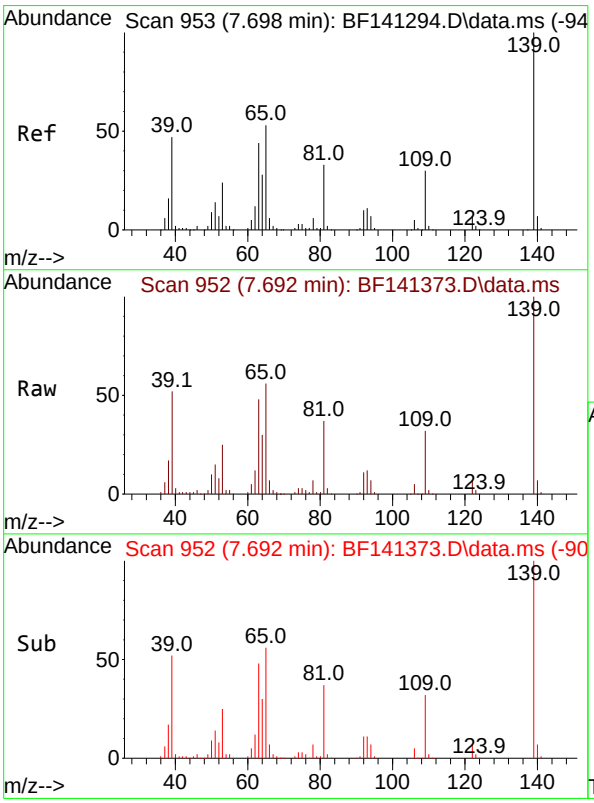
Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.8	8.6
138	17.7	14.7	22.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

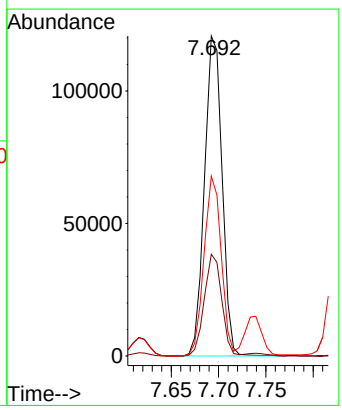
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

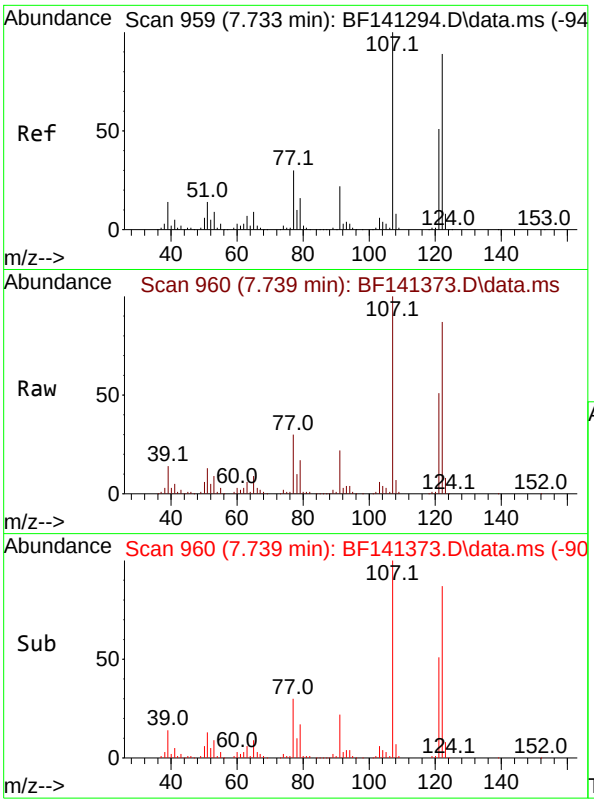


#26
2-Nitrophenol
Concen: 40.576 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:139 Resp: 155896

Ion	Ratio	Lower	Upper
139	100		
109	31.8	23.8	35.6
65	56.2	42.2	63.4

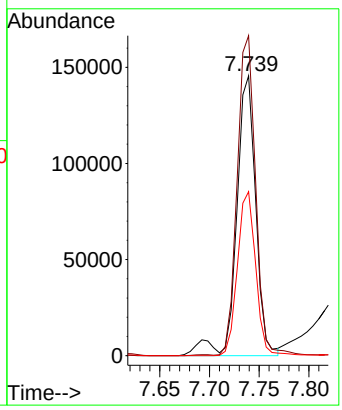




#27
2,4-Dimethylphenol
Concen: 40.168 ng m
RT: 7.739 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:122 Resp: 19643

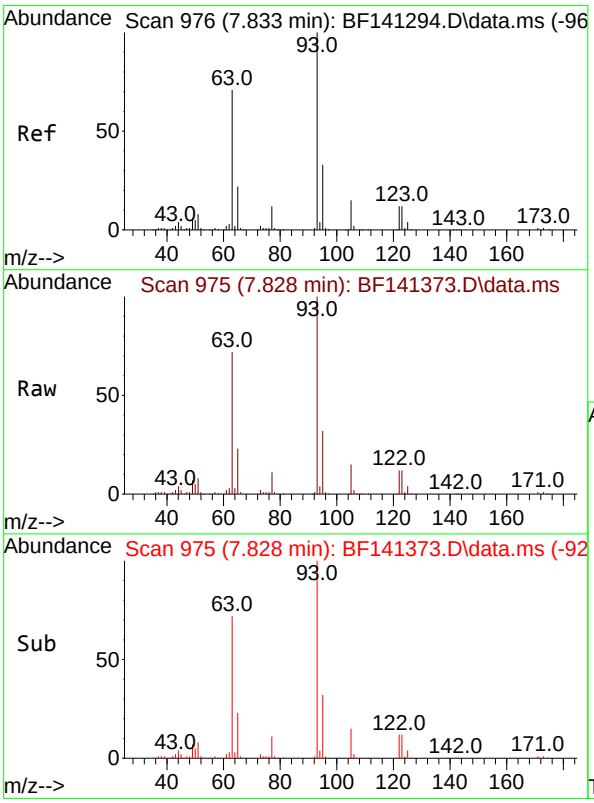
Ion	Ratio	Lower	Upper
122	100		
107	114.4	89.9	134.9
121	58.6	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

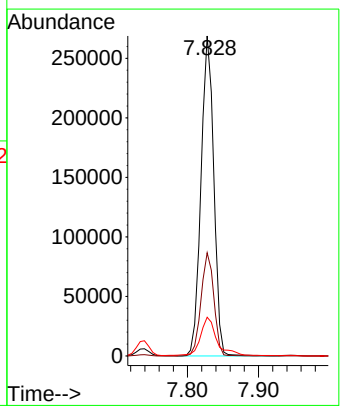
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

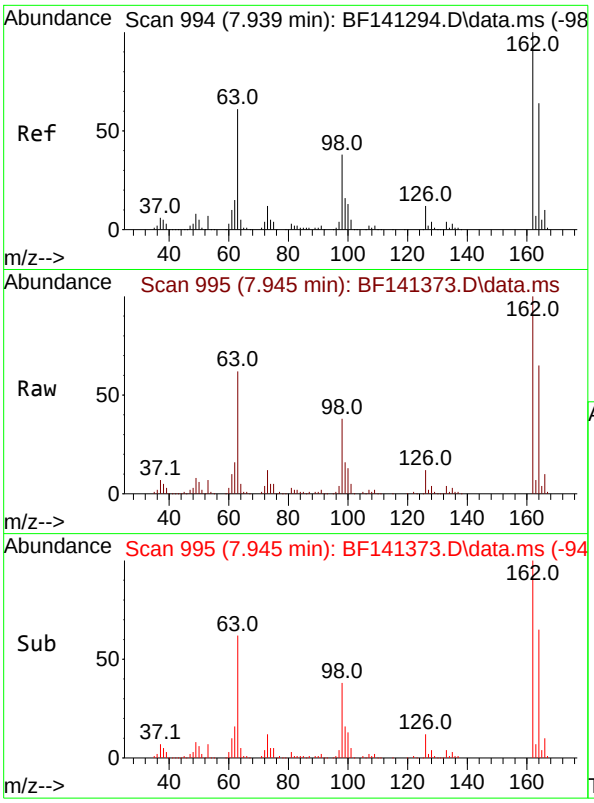


#28
bis(2-Chloroethoxy)methane
Concen: 39.010 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 93 Resp: 338131

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.2	39.2
123	12.1	10.2	15.4

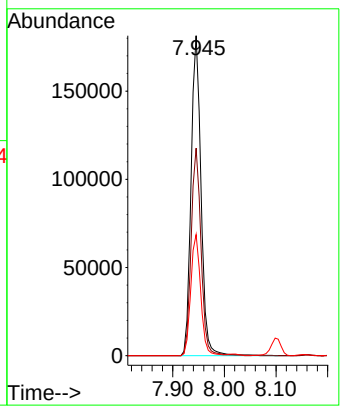




#29
2,4-Dichlorophenol
Concen: 40.508 ng
RT: 7.945 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:162 Resp: 24251

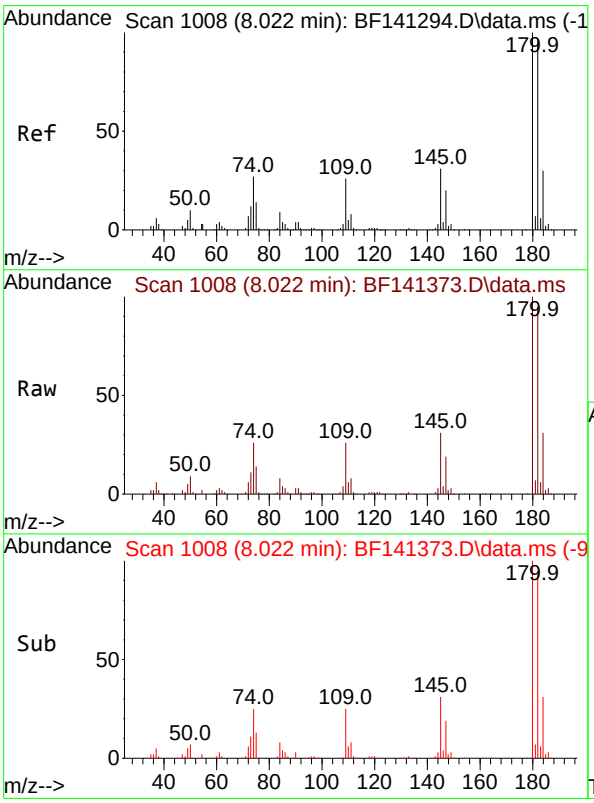
Ion	Ratio	Lower	Upper
162	100		
164	64.8	44.2	84.2
98	37.9	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

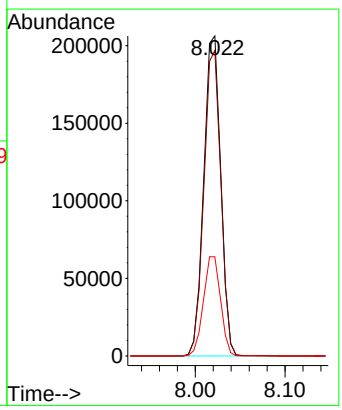
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

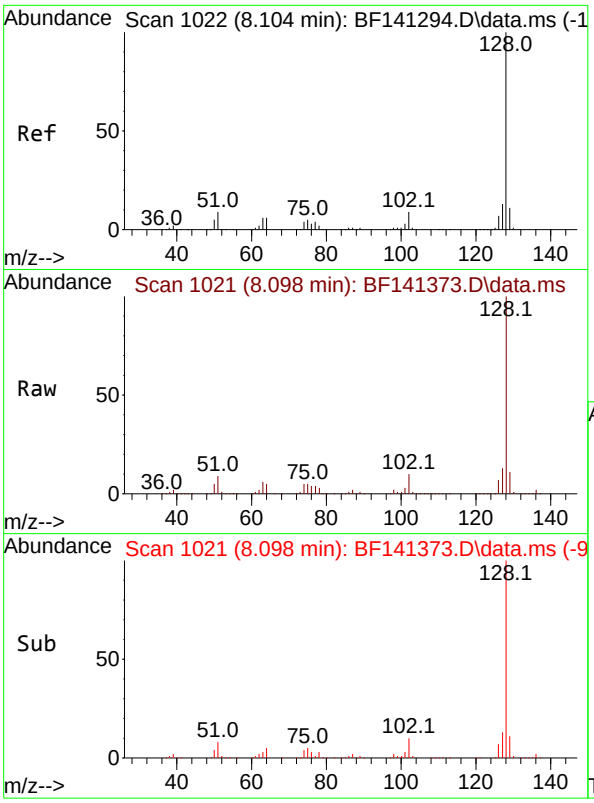


#30
1,2,4-Trichlorobenzene
Concen: 39.757 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:180 Resp: 271821

Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.4	114.6
145	31.0	24.9	37.3

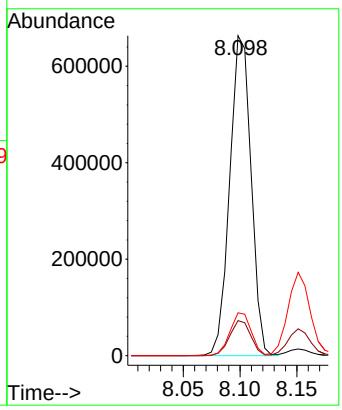




#31
Naphthalene
Concen: 39.616 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:128 Resp: 86729

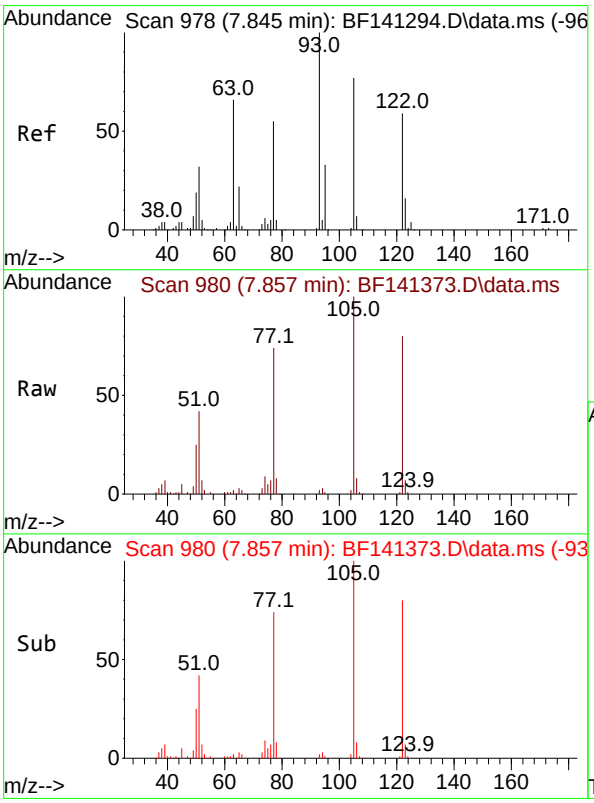
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

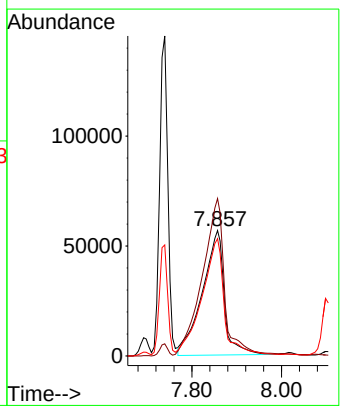
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

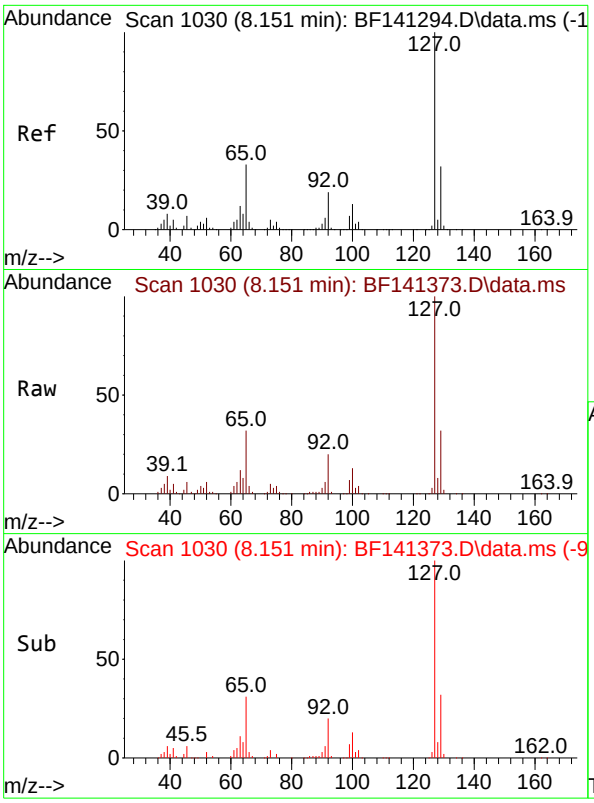


#32
Benzoic acid
Concen: 42.934 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:122 Resp: 193009

Ion	Ratio	Lower	Upper
122	100		
105	125.4	103.4	143.4
77	93.4	70.9	110.9

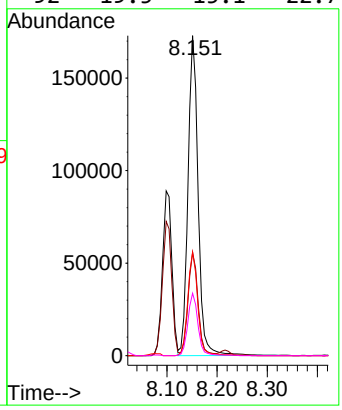




#33
4-Chloroaniline
Concen: 32.676 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:127 Resp: 24258

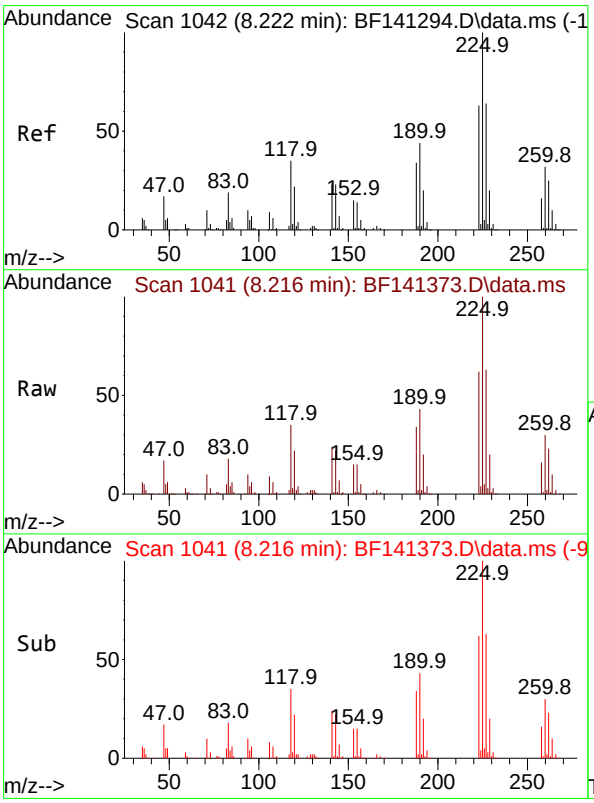
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	32.4	26.4	39.6
92	19.5	15.1	22.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

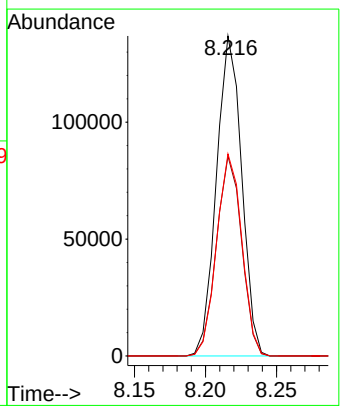
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

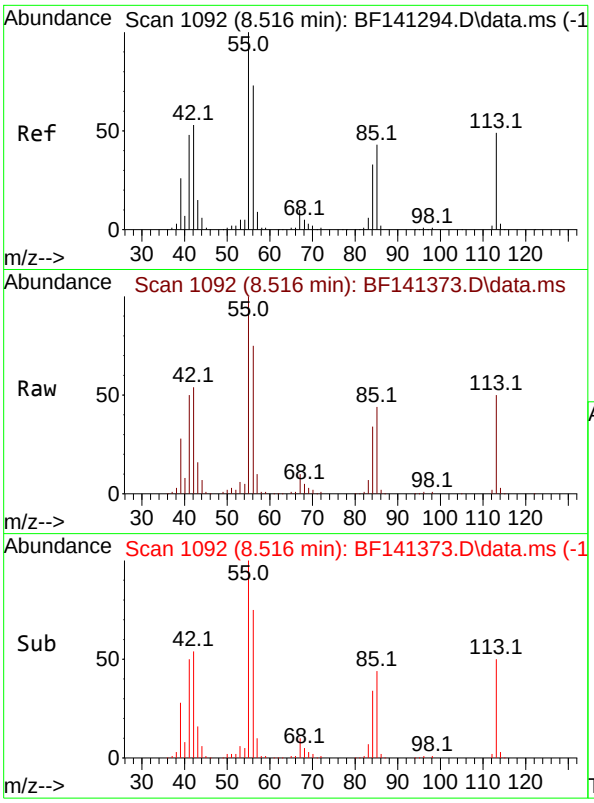


#34
Hexachlorobutadiene
Concen: 42.128 ng
RT: 8.216 min Scan# 1041
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:225 Resp: 168912

Ion	Ratio	Lower	Upper
225	100		
223	62.4	50.4	75.6
227	63.2	51.3	76.9





#35
Caprolactam
Concen: 40.764 ng
RT: 8.516 min Scan# 1
Delta R.T. -0.030 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

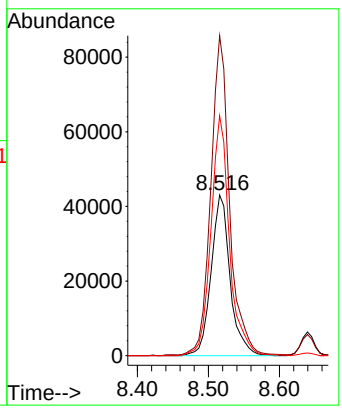
Tgt Ion:113 Resp: 7970

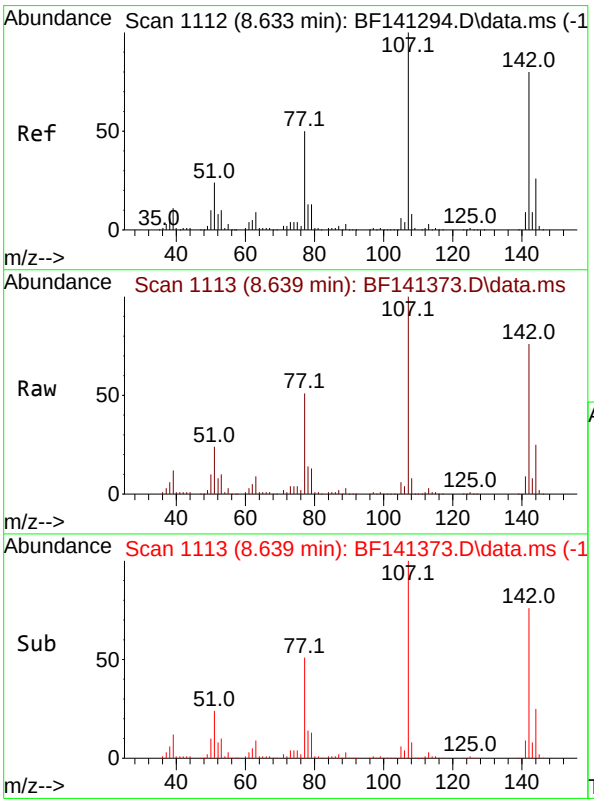
Ion	Ratio	Lower	Upper
113	100		
55	199.2	182.9	222.9
56	149.3	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

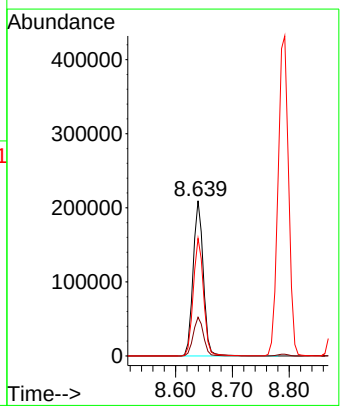


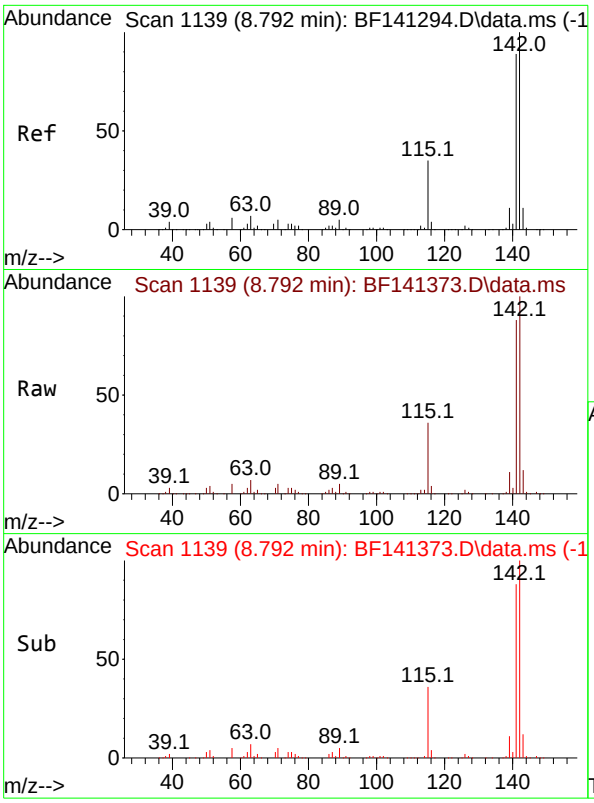


#36
4-Chloro-3-methylphenol
Concen: 41.066 ng
RT: 8.639 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:107 Resp: 263711

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.7	31.1
142	75.7	63.8	95.8

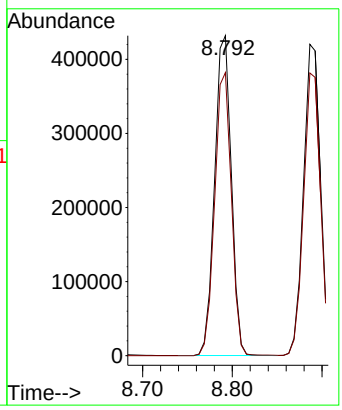




#37
2-Methylnaphthalene
Concen: 40.024 ng
RT: 8.792 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:142 Resp: 55690

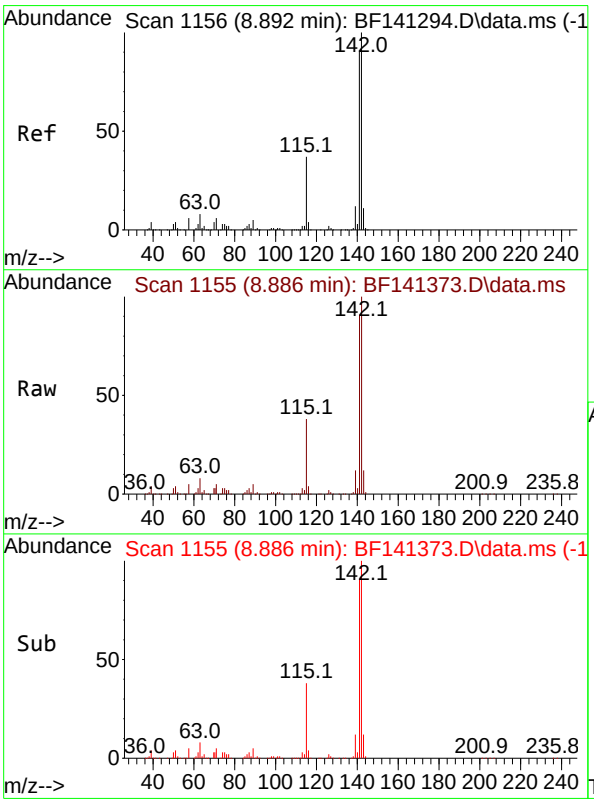
Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.3	106.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

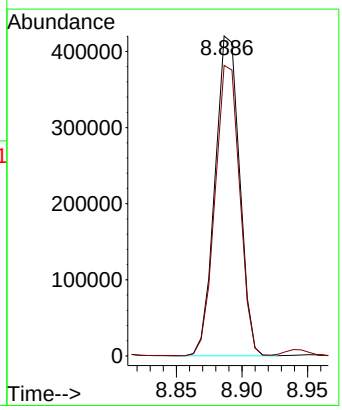
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

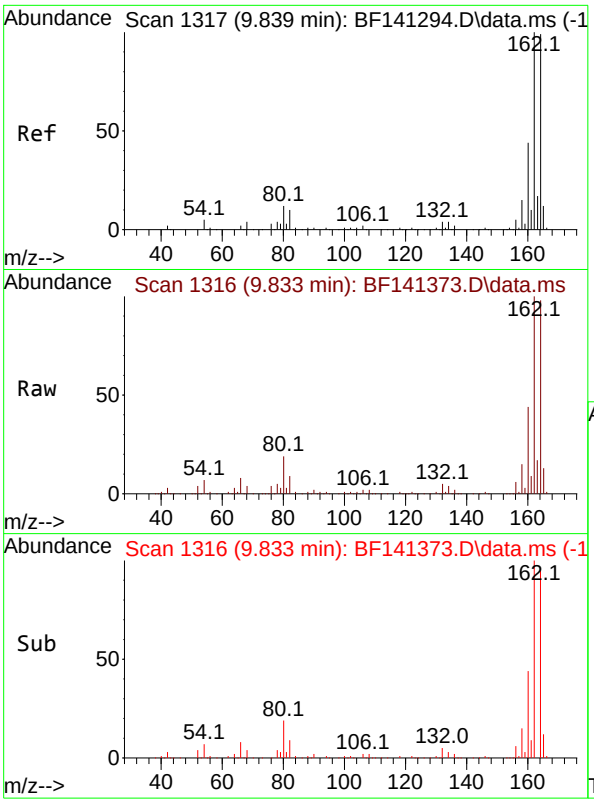


#38
1-Methylnaphthalene
Concen: 40.034 ng
RT: 8.886 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:142 Resp: 547195

Ion	Ratio	Lower	Upper
142	100		
141	90.8	73.2	109.8

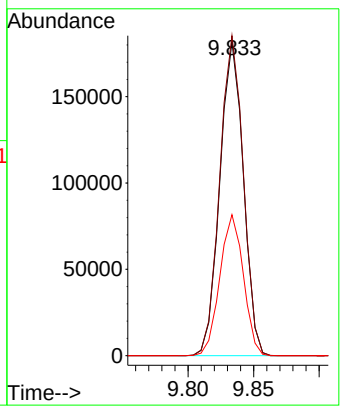




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:164 Resp: 22632

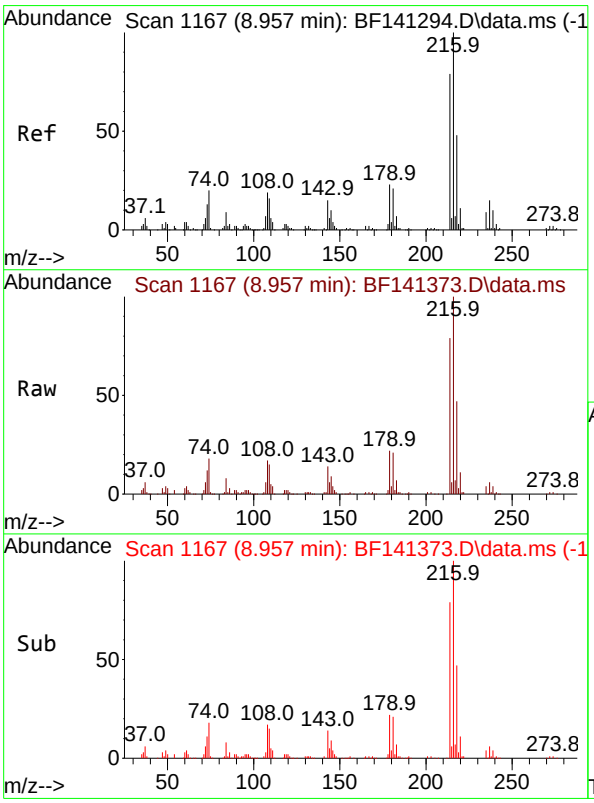
Ion	Ratio	Lower	Upper
164	100		
162	102.0	80.6	121.0
160	44.9	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

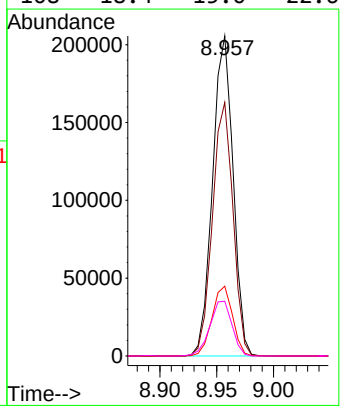
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

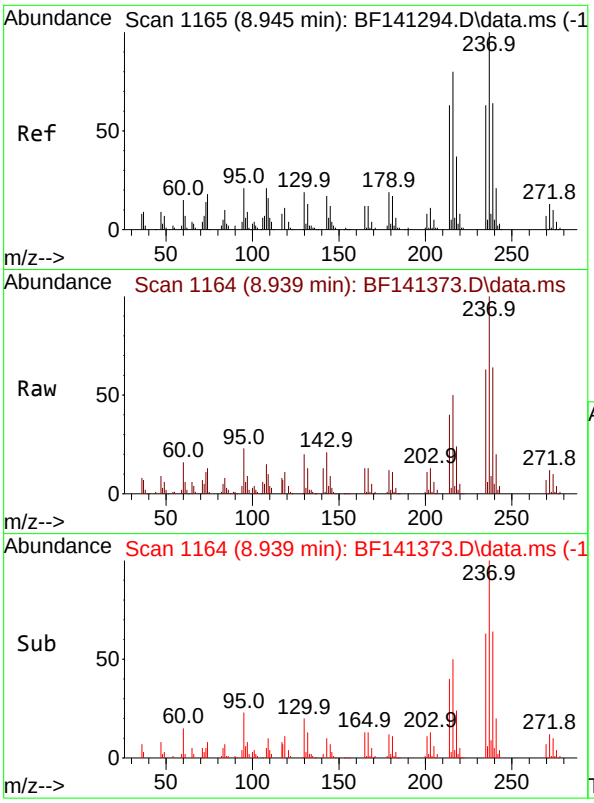


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.167 ng
RT: 8.957 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:216 Resp: 258626

Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.2	94.8
179	21.8	17.8	26.8
108	18.4	15.0	22.6

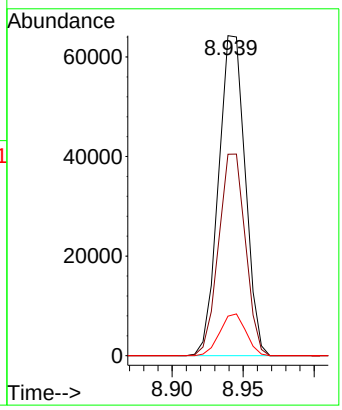




#41
Hexachlorocyclopentadiene
Concen: 44.173 ng
RT: 8.939 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:237 Resp: 8399

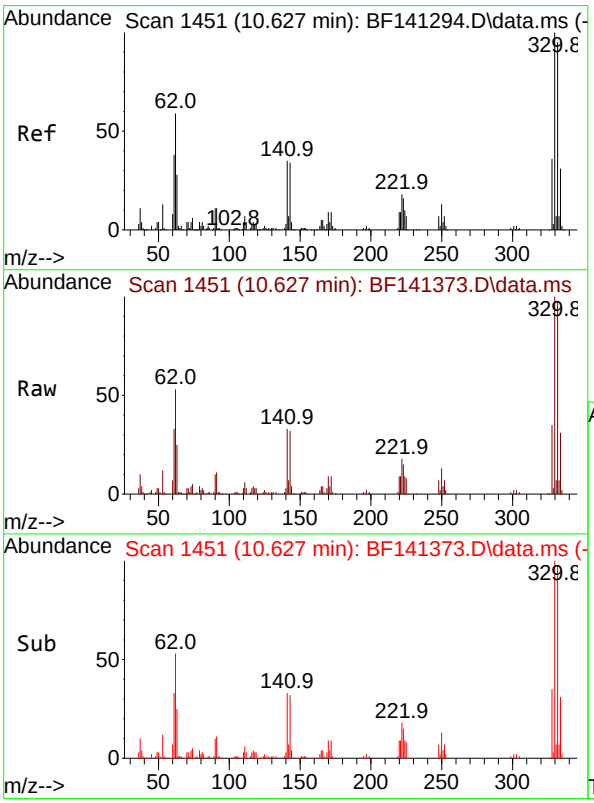
Ion	Ratio	Lower	Upper
237	100		
235	63.0	42.9	82.9
272	12.4	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

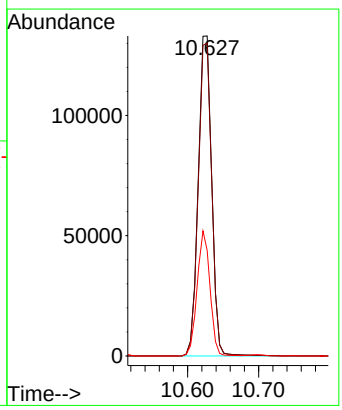
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

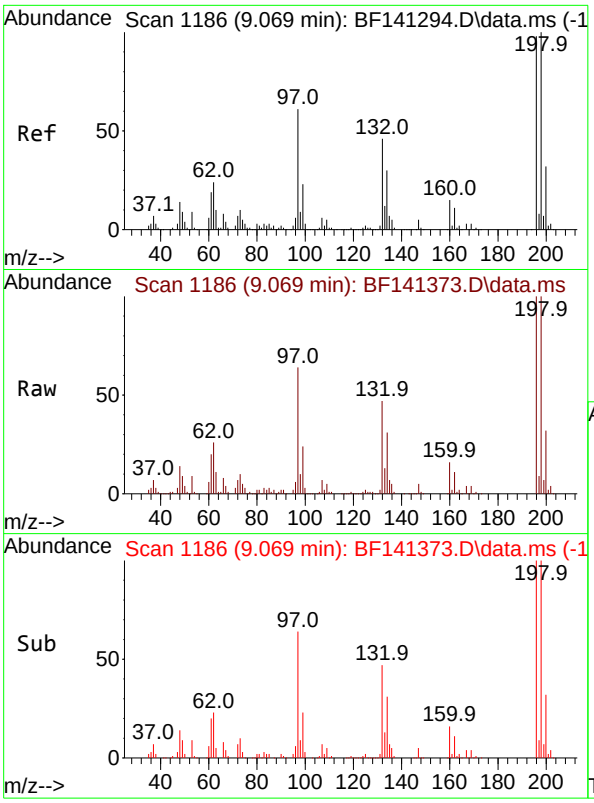


#42
2,4,6-Tribromophenol
Concen: 84.706 ng
RT: 10.627 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:330 Resp: 175756

Ion	Ratio	Lower	Upper
330	100		
332	97.6	76.1	114.1
141	37.2	28.8	43.2

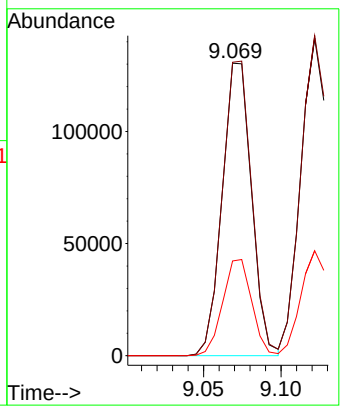




#43
2,4,6-Trichlorophenol
Concen: 40.768 ng
RT: 9.069 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:196 Resp: 17181

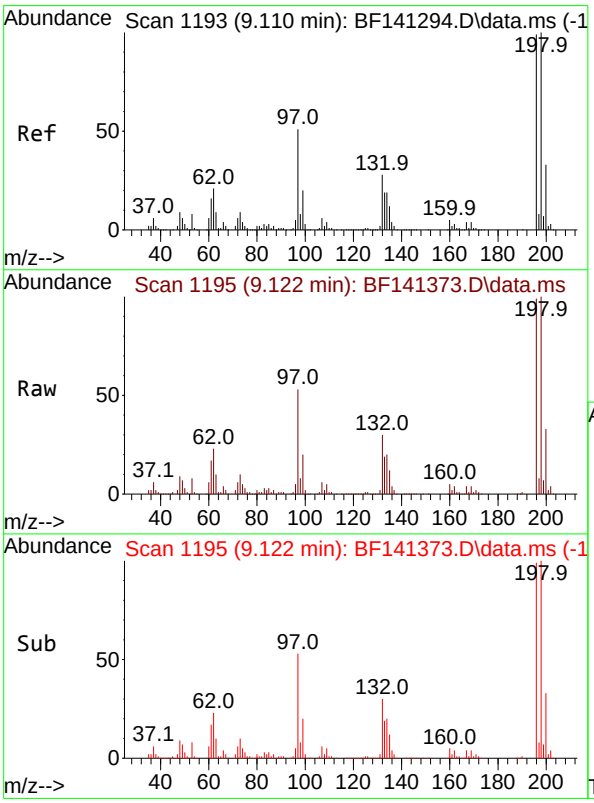
Ion	Ratio	Lower	Upper
196	100		
198	100.3	81.8	122.6
200	32.4	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

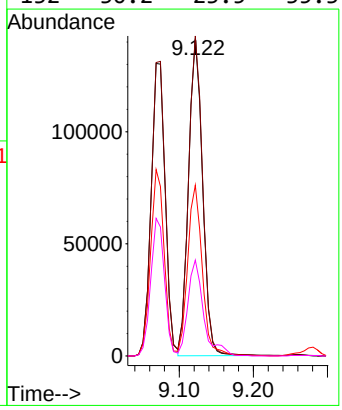
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

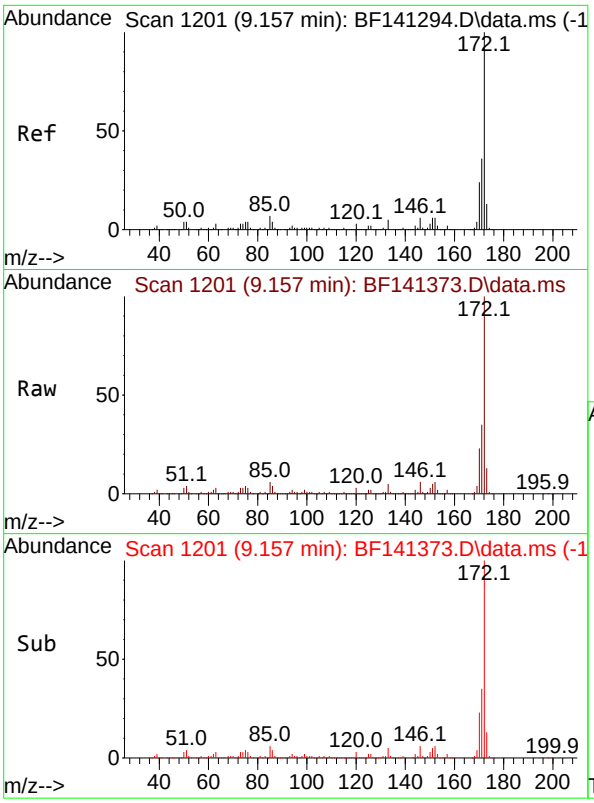


#44
2,4,5-Trichlorophenol
Concen: 40.747 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:196 Resp: 186902

Ion	Ratio	Lower	Upper
196	100		
198	100.8	80.5	120.7
97	53.8	42.8	64.2
132	30.2	23.5	35.3





#45
2-Fluorobiphenyl
Concen: 79.517 ng
RT: 9.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

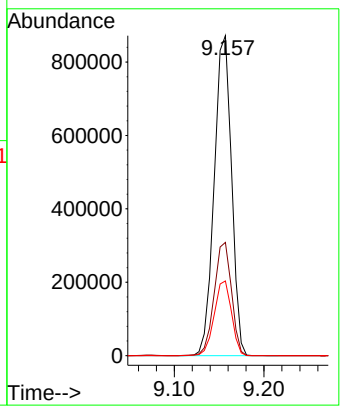
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

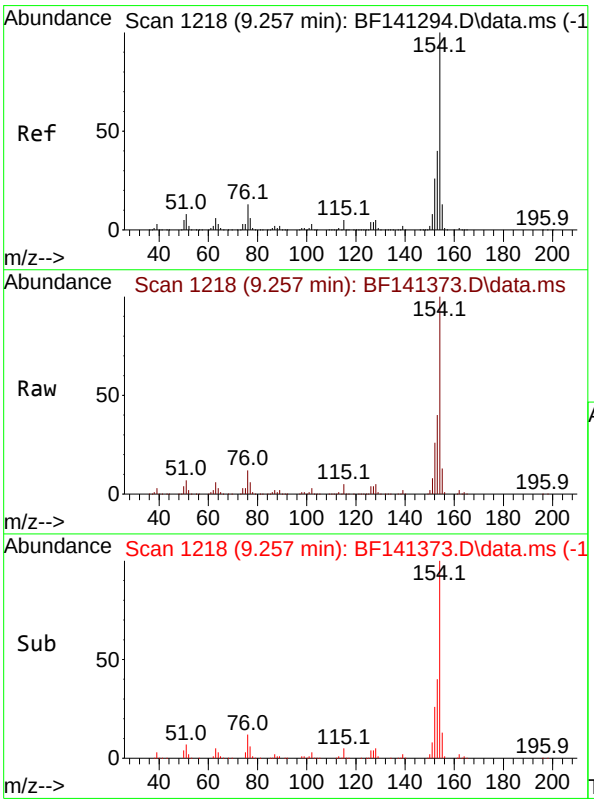
Tgt Ion:172 Resp: 116923

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.3	19.0	28.6

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

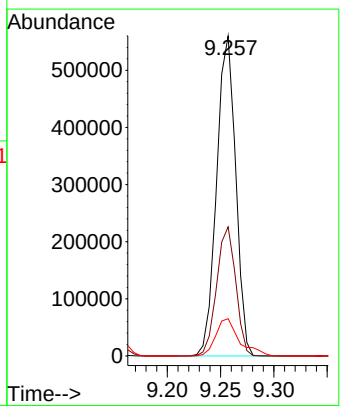


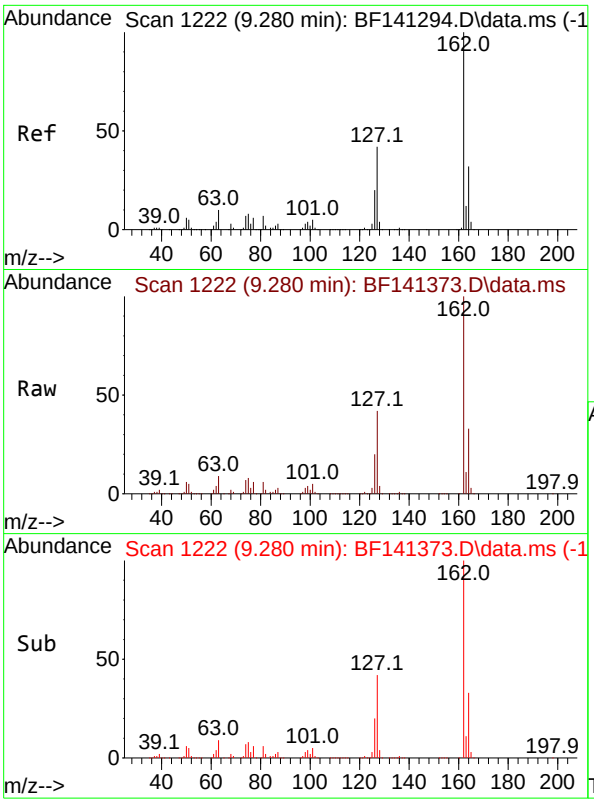


#46
1,1'-Biphenyl
Concen: 39.393 ng
RT: 9.257 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:154 Resp: 695314

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	11.7	0.0	32.8

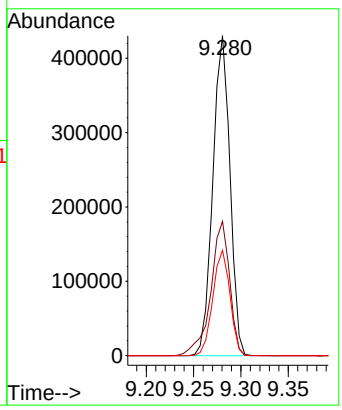




#47
2-Chloronaphthalene
Concen: 39.346 ng
RT: 9.280 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:162 Resp: 54131

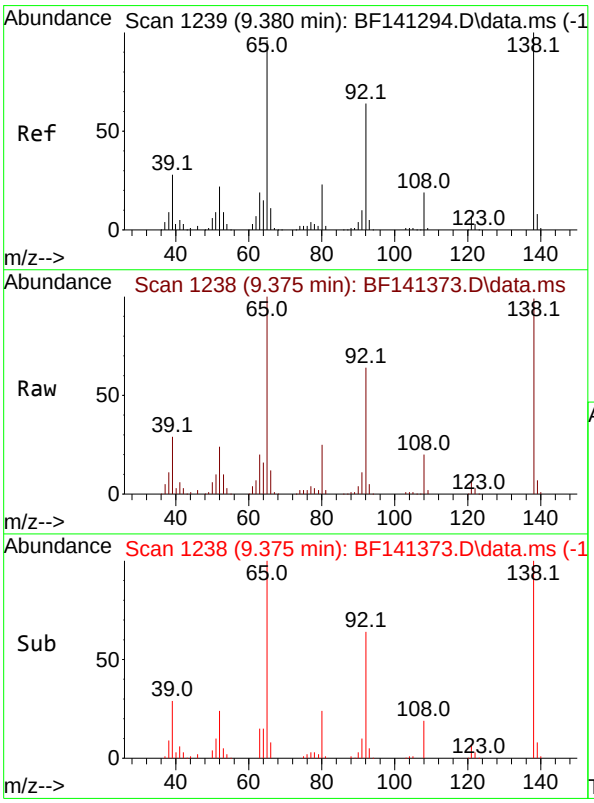
Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.7	50.5
164	32.9	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

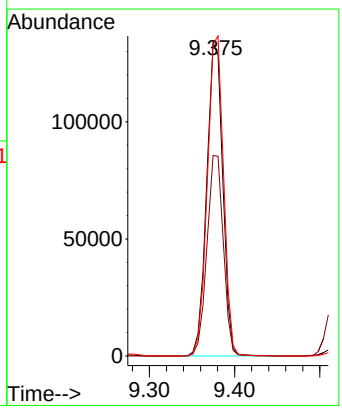
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

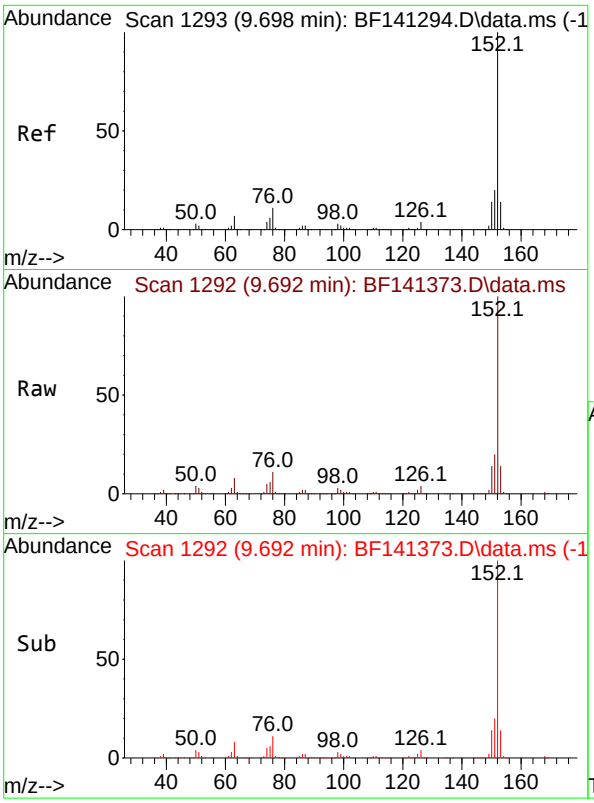


#48
2-Nitroaniline
Concen: 40.613 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion: 65 Resp: 175746

Ion	Ratio	Lower	Upper
65	100		
92	63.9	53.3	79.9
138	99.3	83.6	125.4

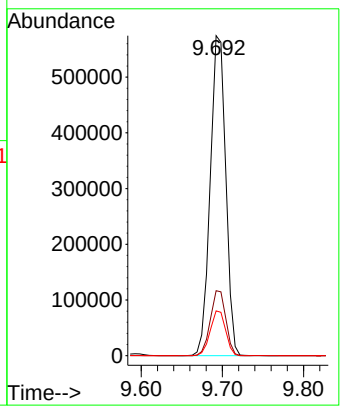




#49
Acenaphthylene
Concen: 39.561 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:152 Resp: 76188

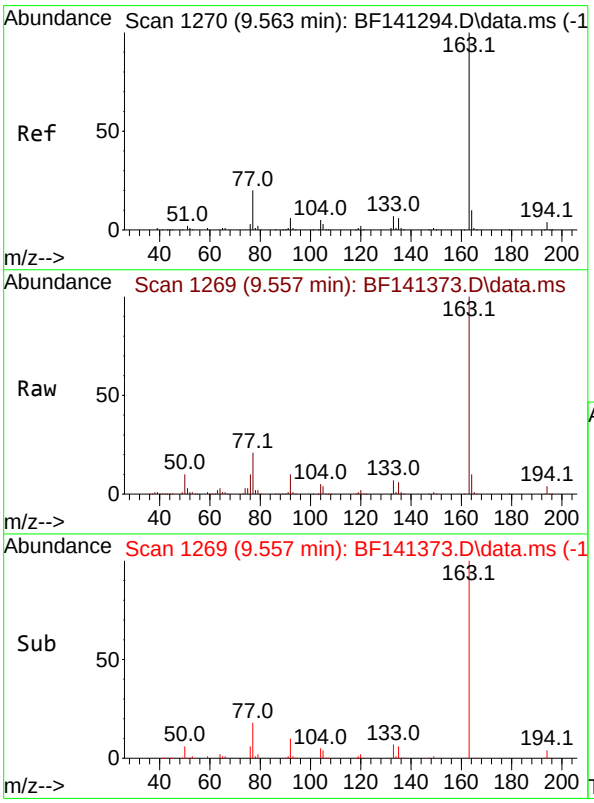
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	14.0	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

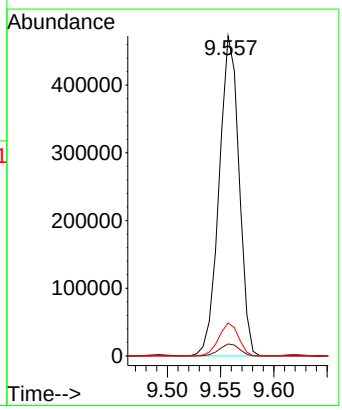
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

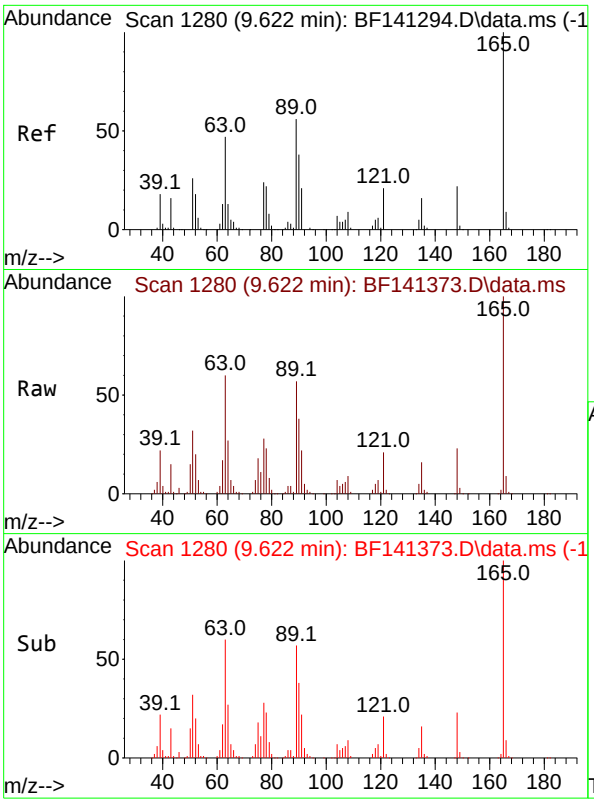


#50
Dimethylphthalate
Concen: 40.182 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:163 Resp: 614225

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.0	12.0

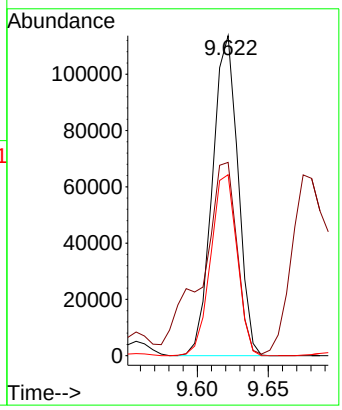




#51
2,6-Dinitrotoluene
Concen: 40.128 ng
RT: 9.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:165 Resp: 14242

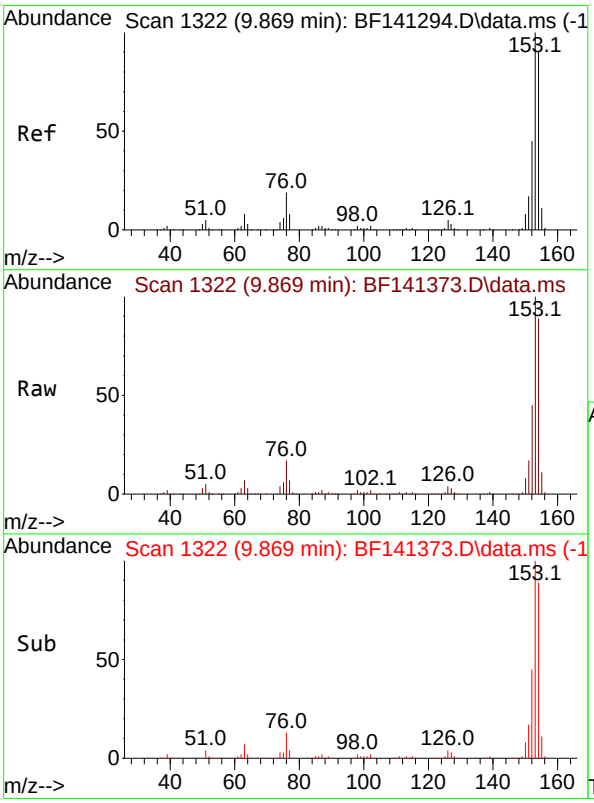
Ion	Ratio	Lower	Upper
165	100		
63	60.4	48.1	72.1
89	56.5	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

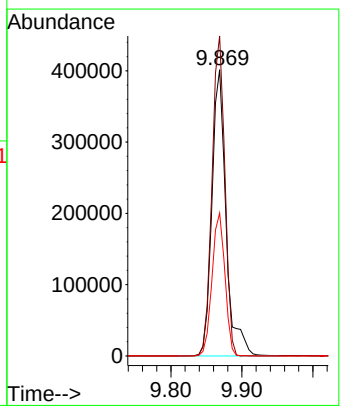
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

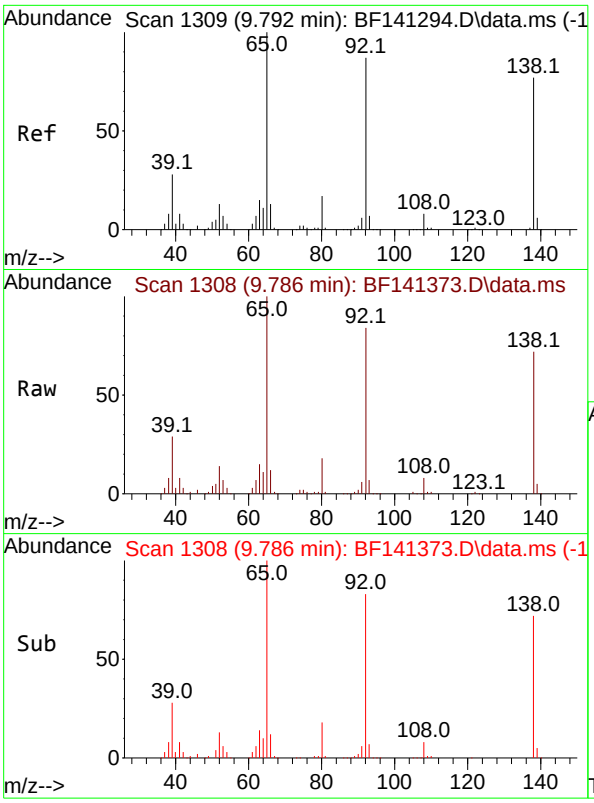


#52
Acenaphthene
Concen: 40.321 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:154 Resp: 554750

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.0	133.4
152	49.9	40.2	60.4





#53
3-Nitroaniline
Concen: 40.403 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

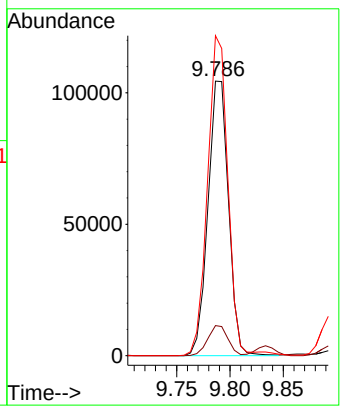
Tgt Ion:138 Resp: 14054

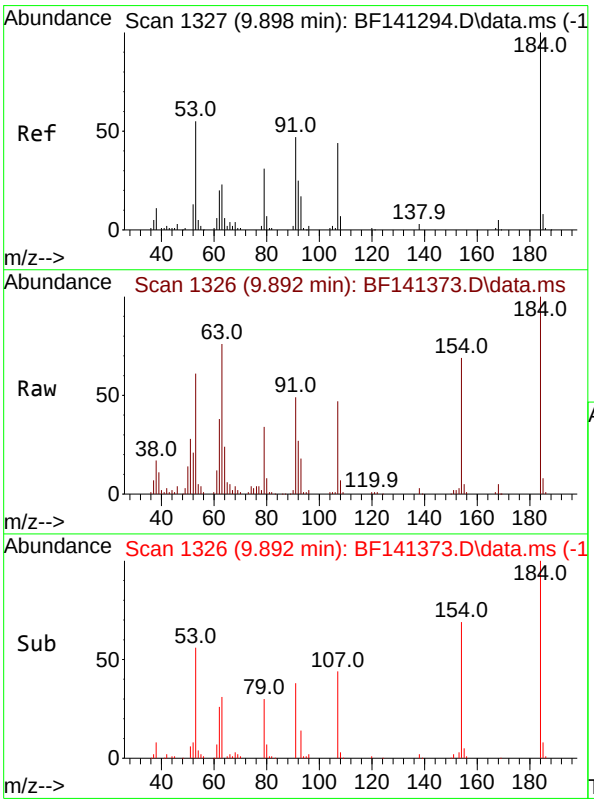
Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.6	12.8
92	116.5	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

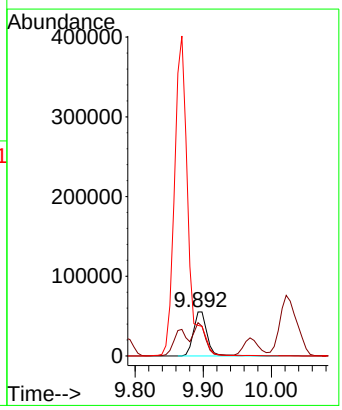


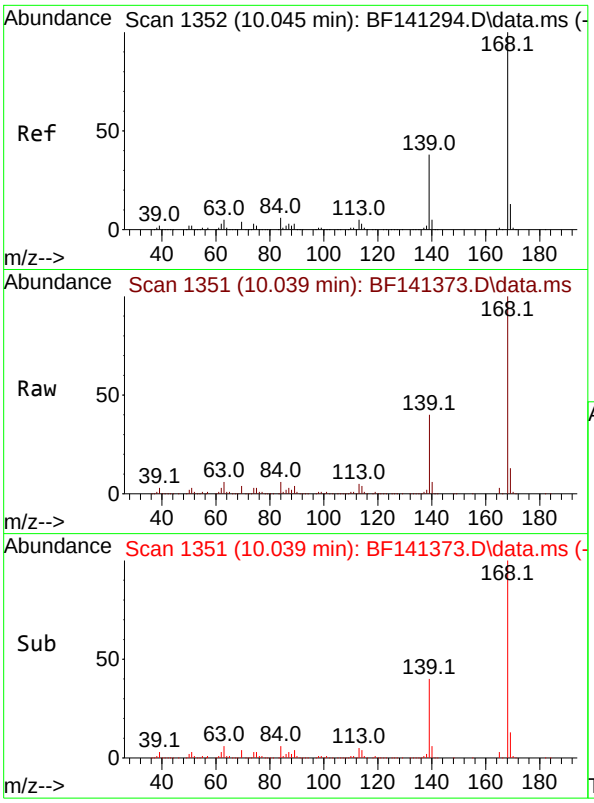


#54
2,4-Dinitrophenol
Concen: 46.667 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:184 Resp: 76994

Ion	Ratio	Lower	Upper
184	100		
63	75.5	54.1	81.1
154	69.4	50.7	76.1

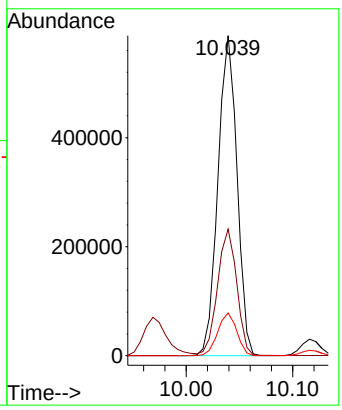




#55
Dibenzofuran
Concen: 39.528 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:168 Resp: 72795

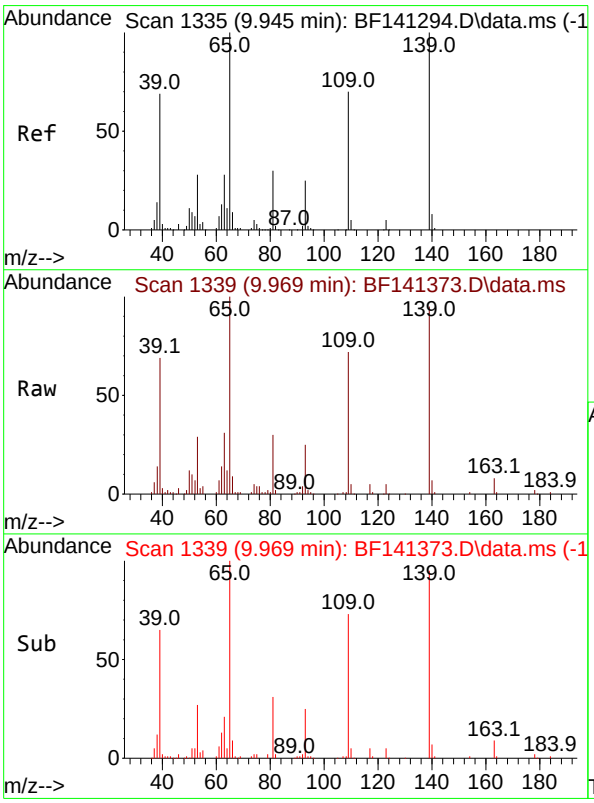
Ion	Ratio	Lower	Upper
168	100		
139	39.6	30.6	46.0
169	13.3	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

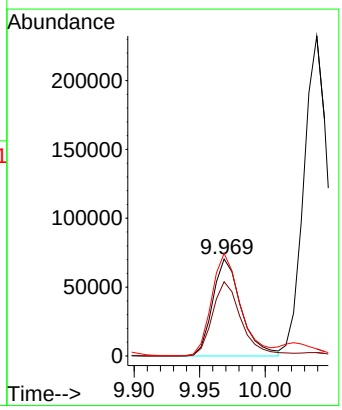
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

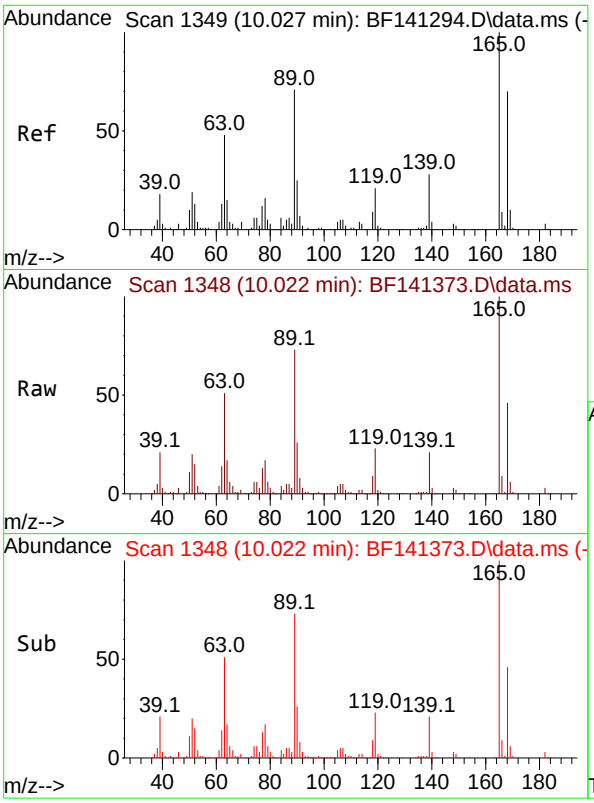


#56
4-Nitrophenol
Concen: 41.887 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:139 Resp: 106562

Ion	Ratio	Lower	Upper
139	100		
109	76.5	50.2	90.2
65	105.7	80.6	120.6

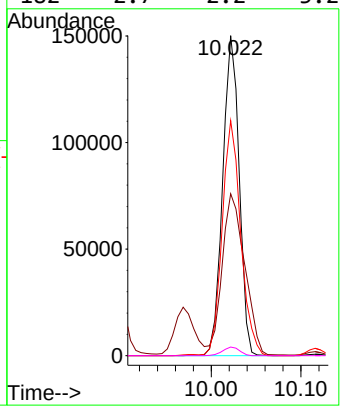




#57
2,4-Dinitrotoluene
Concen: 41.657 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:165 Resp: 19142

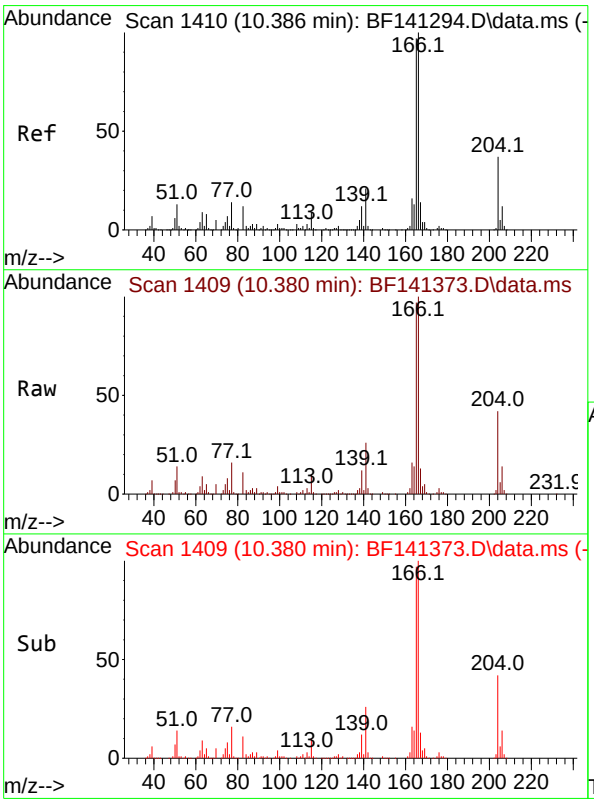
Ion	Ratio	Lower	Upper
165	100		
63	50.6	39.2	58.8
89	73.5	56.9	85.3
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

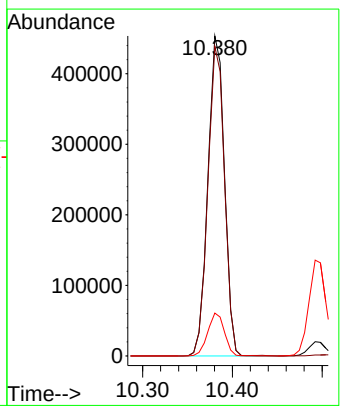
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

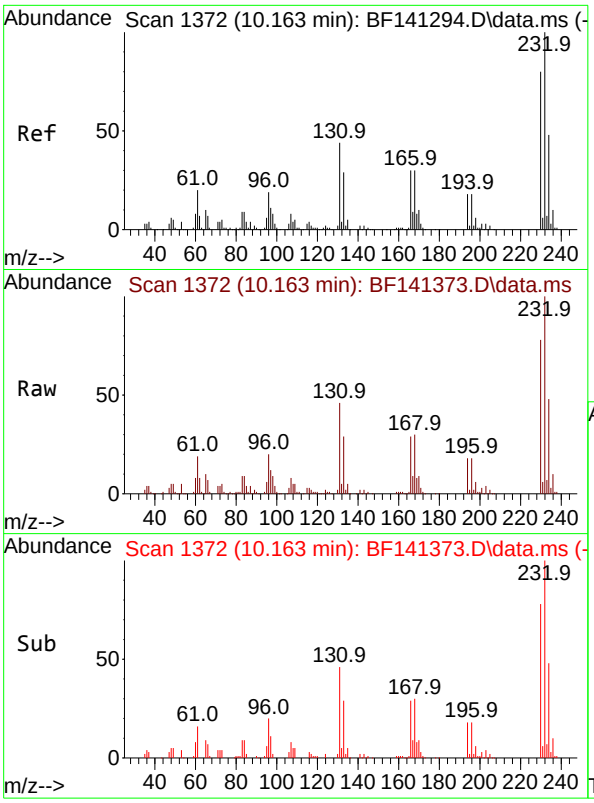


#58
Fluorene
Concen: 40.737 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:166 Resp: 581931

Ion	Ratio	Lower	Upper
166	100		
165	96.7	77.5	116.3
167	13.4	10.9	16.3

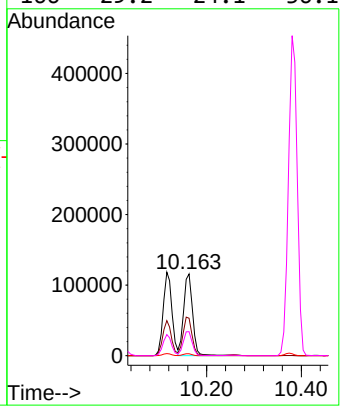




#59
2,3,4,6-Tetrachlorophenol
Concen: 42.131 ng
RT: 10.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:232 Resp: 15203

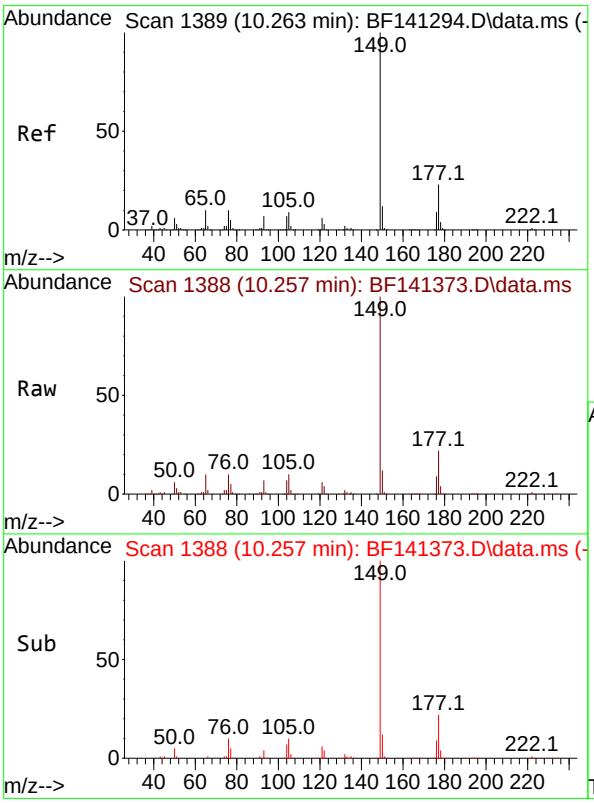
Ion	Ratio	Lower	Upper
232	100		
131	47.1	36.4	54.6
130	2.3	1.9	2.9
166	29.2	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

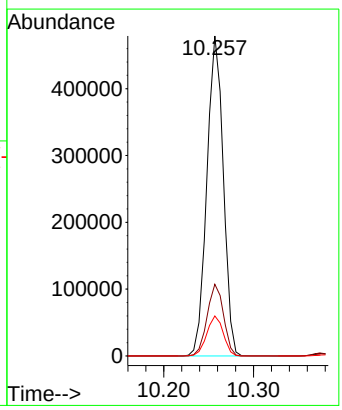
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

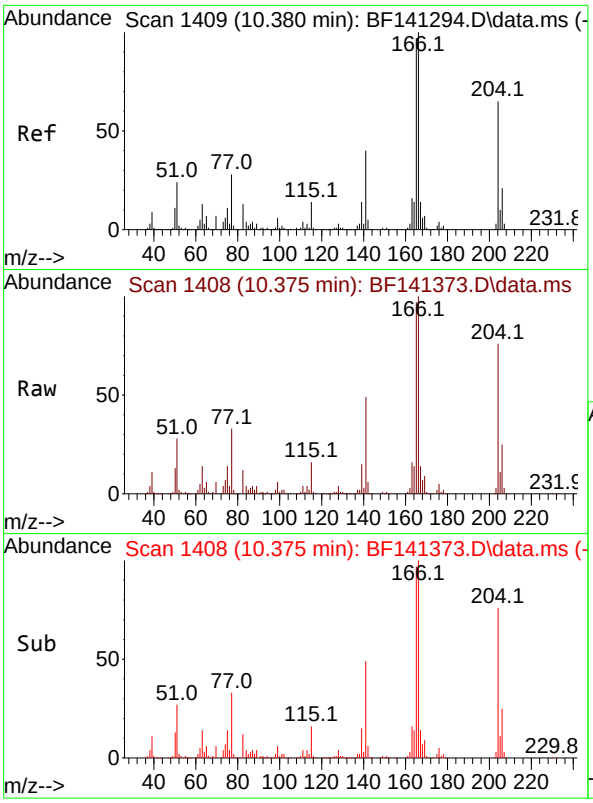


#60
Diethylphthalate
Concen: 41.105 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:149 Resp: 609242

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.5	27.7
150	12.5	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 40.268 ng
RT: 10.375 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

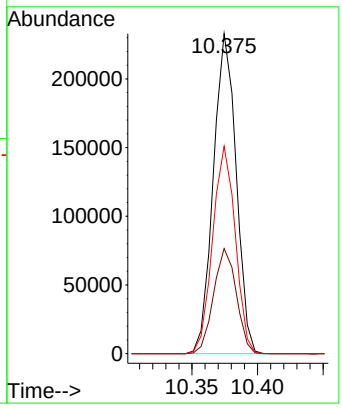
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

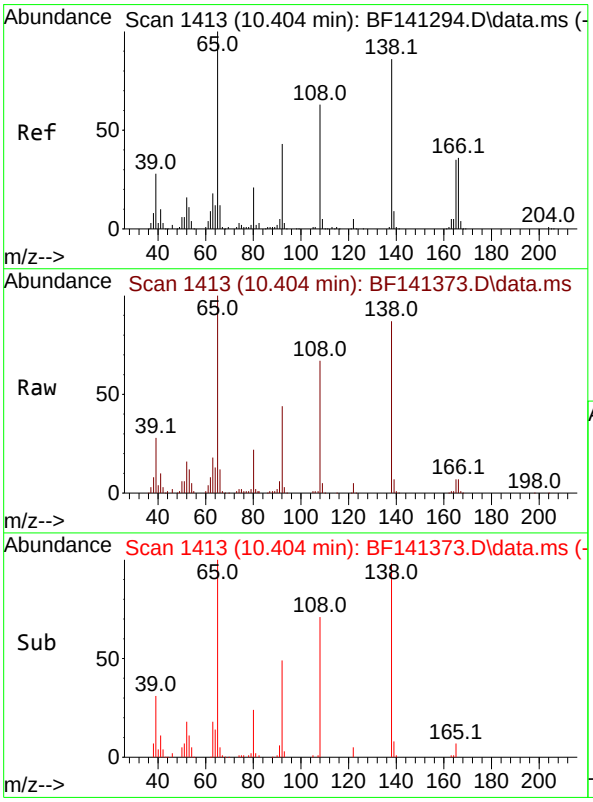
Tgt Ion:204 Resp: 28098

Ion	Ratio	Lower	Upper
204	100		
206	32.8	25.9	38.9
141	64.8	49.5	74.3

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

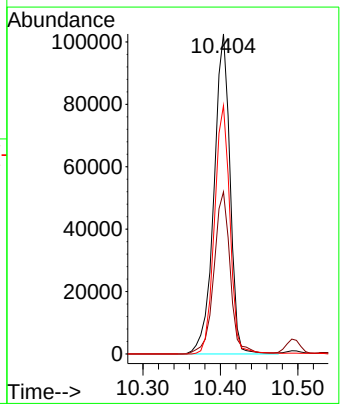


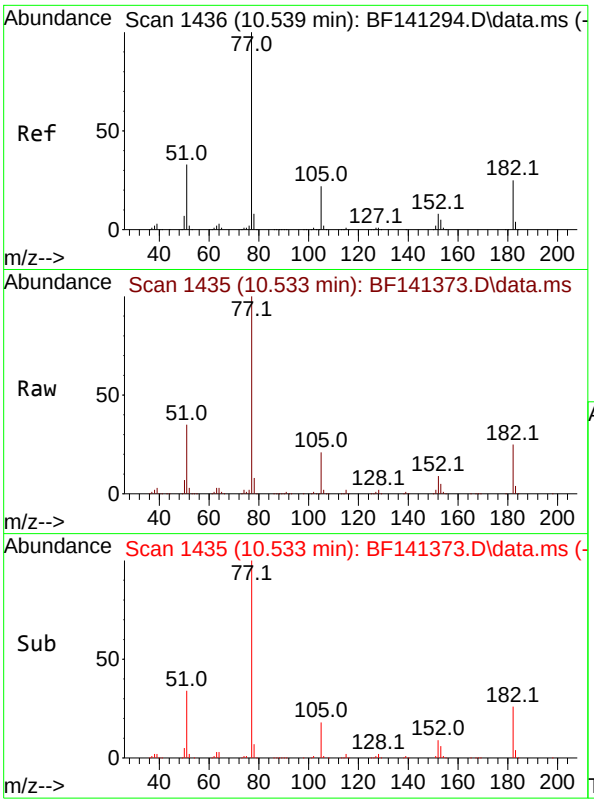


#62
4-Nitroaniline
Concen: 43.258 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:138 Resp: 147941

Ion	Ratio	Lower	Upper
138	100		
92	50.7	30.1	70.1
108	77.6	53.1	93.1





#63
Azobenzene
Concen: 39.486 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

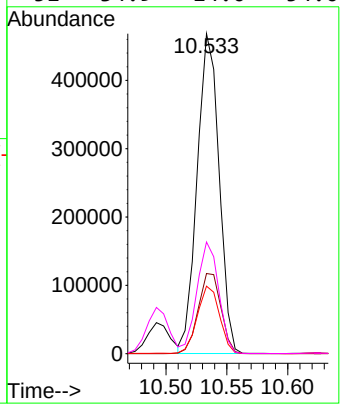
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

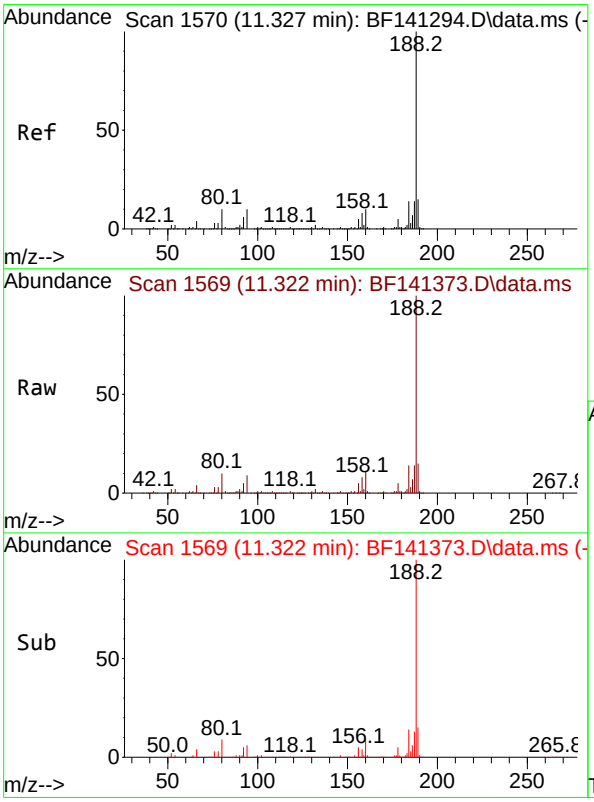
Tgt Ion: 77 Resp: 58580

Ion	Ratio	Lower	Upper
77	100		
182	25.1	5.1	45.1
105	21.1	1.8	41.8
51	34.9	14.0	54.0

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

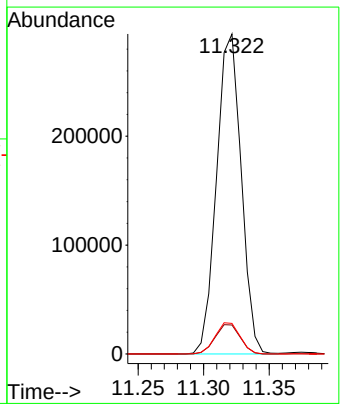


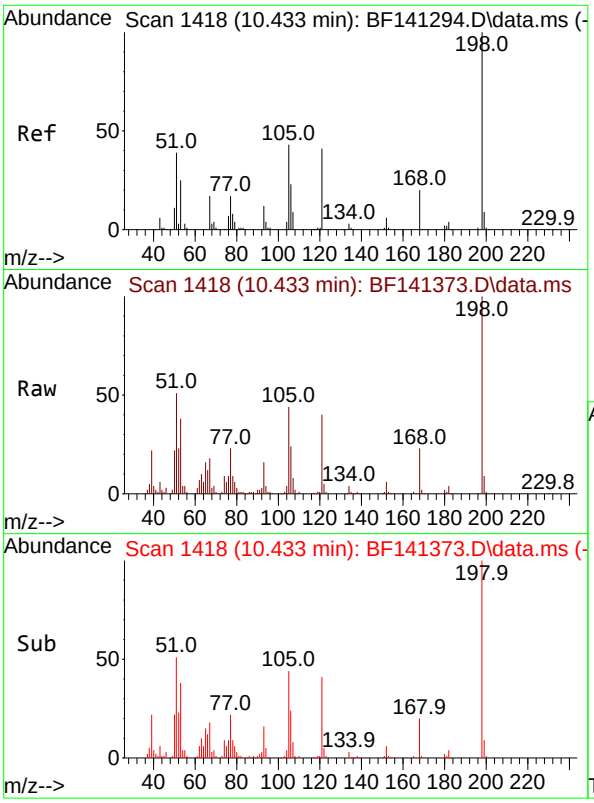


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:188 Resp: 383558

Ion	Ratio	Lower	Upper
188	100		
94	9.0	7.8	11.6
80	9.5	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 47.204 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

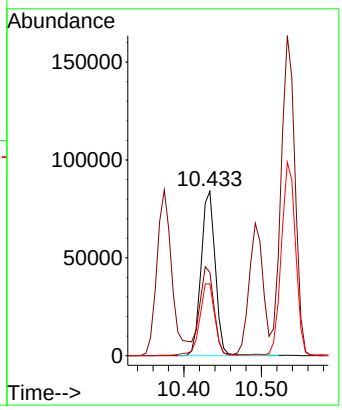
Tgt Ion:198 Resp: 10709

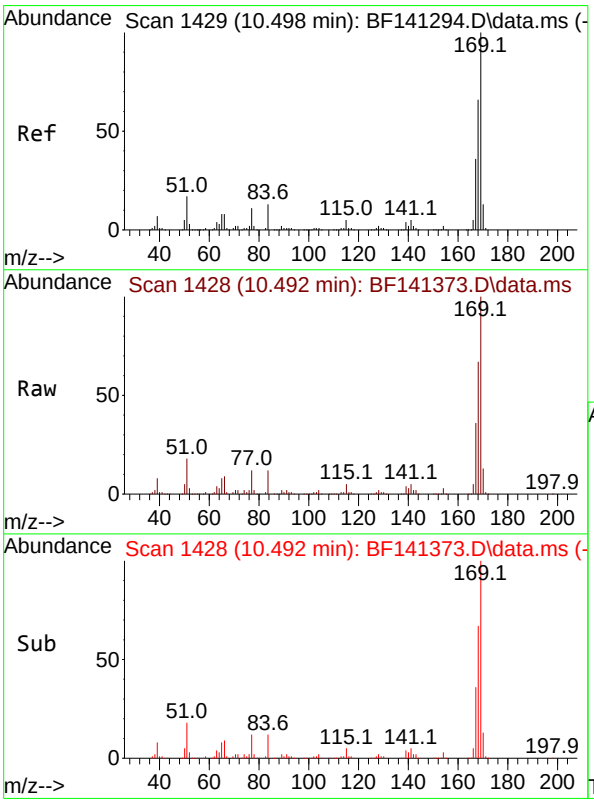
Ion	Ratio	Lower	Upper
198	100		
51	50.6	33.4	73.4
105	43.7	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

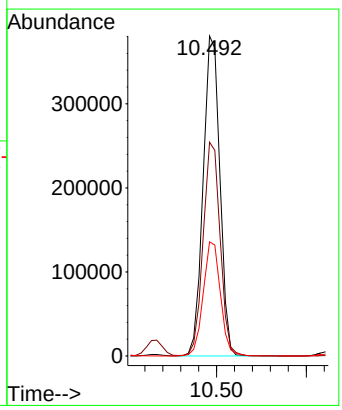


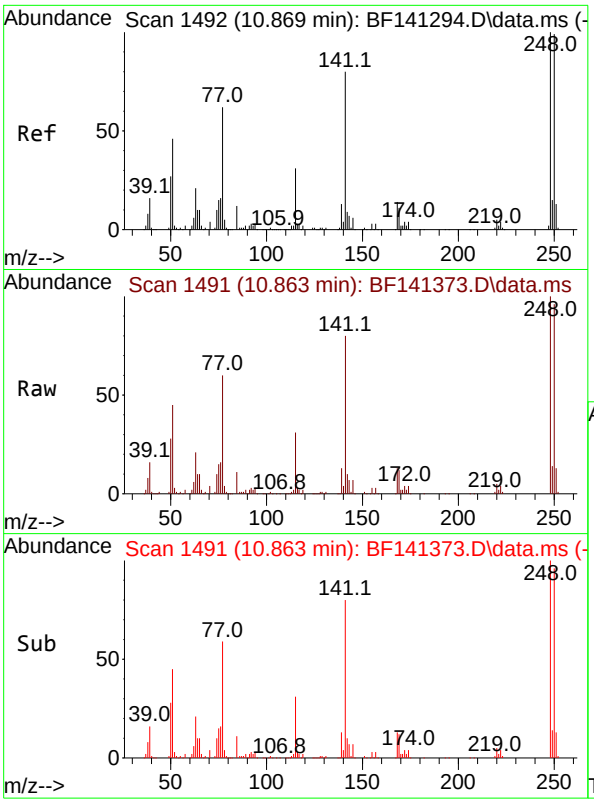


#66
n-Nitrosodiphenylamine
Concen: 39.703 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:169 Resp: 492539

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.0	79.4
167	35.6	28.8	43.2

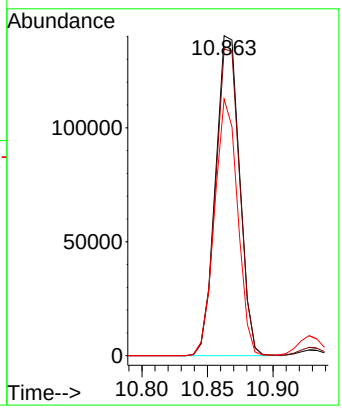




#67
4-Bromophenyl-phenylether
Concen: 41.761 ng
RT: 10.863 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:248 Resp: 17932

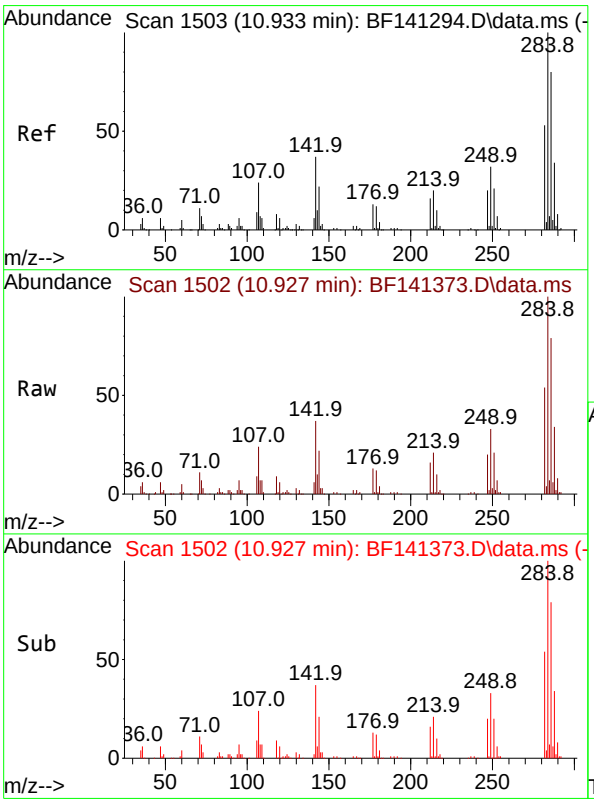
Ion	Ratio	Lower	Upper
248	100		
250	95.9	79.0	118.4
141	80.2	63.7	95.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

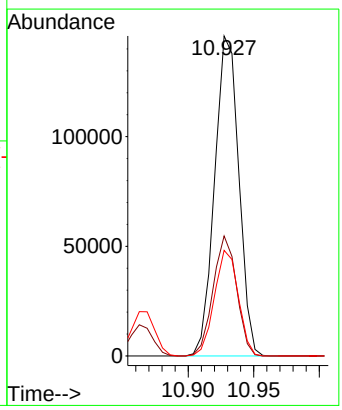
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

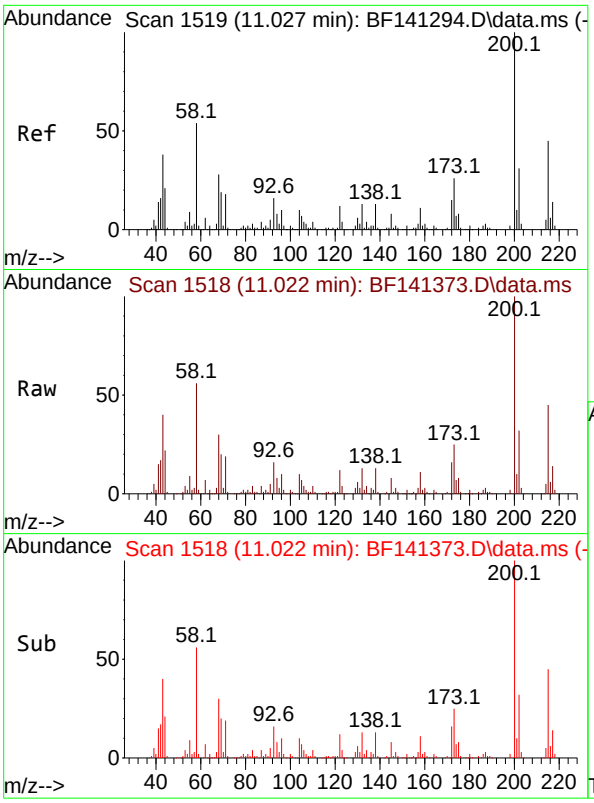


#68
Hexachlorobenzene
Concen: 41.015 ng
RT: 10.927 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:284 Resp: 186820

Ion	Ratio	Lower	Upper
284	100		
142	37.5	29.5	44.3
249	33.0	25.4	38.2





#69
Atrazine
Concen: 40.023 ng
RT: 11.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

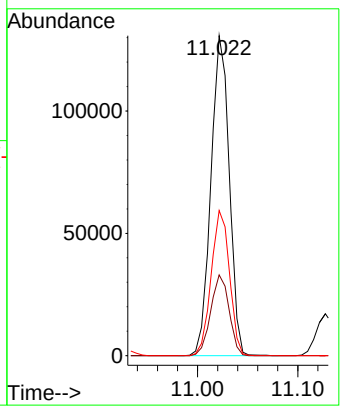
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

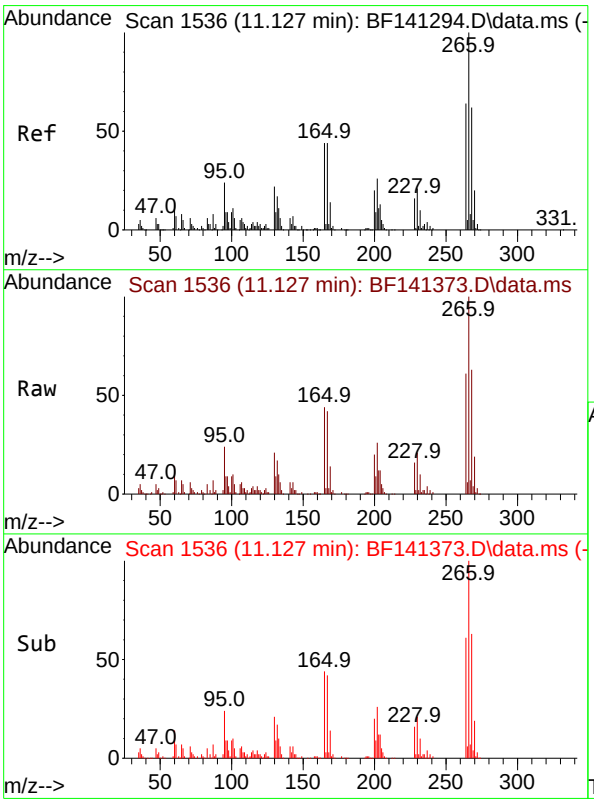
Tgt Ion:200 Resp: 16600

Ion	Ratio	Lower	Upper
200	100		
173	25.3	5.9	45.9
215	45.3	25.2	65.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

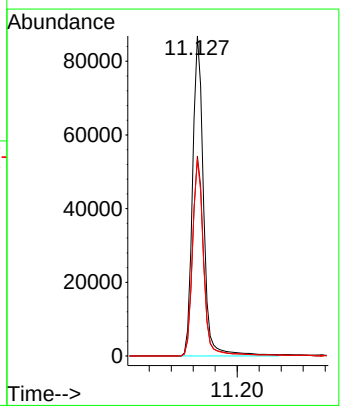


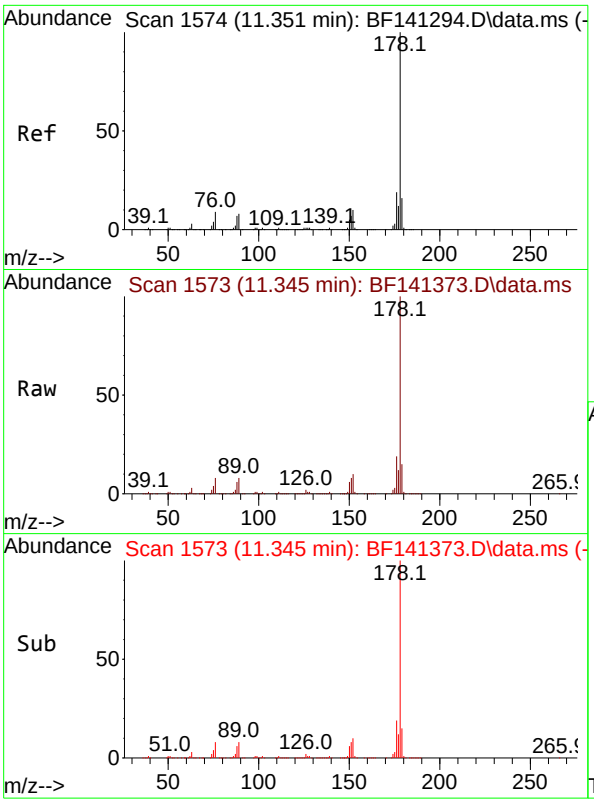


#70
Pentachlorophenol
Concen: 45.068 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:266 Resp: 120209

Ion	Ratio	Lower	Upper
266	100		
268	62.5	49.9	74.9
264	61.4	51.0	76.4

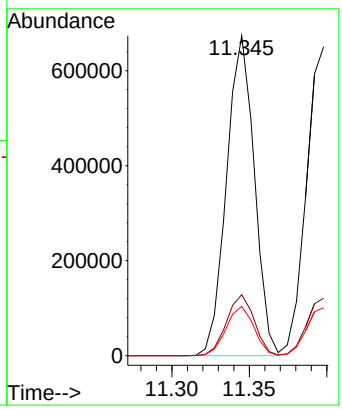




#71
Phenanthrene
Concen: 40.745 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:178 Resp: 84007

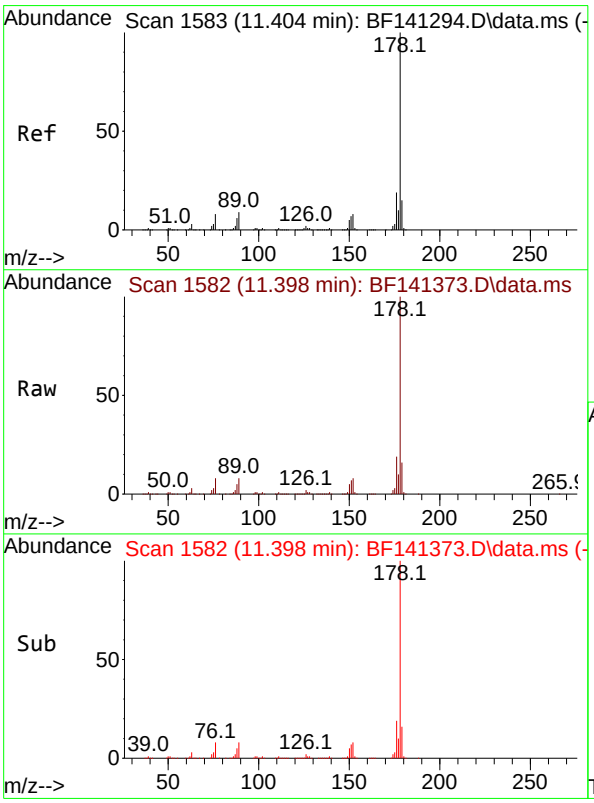
Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.4	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

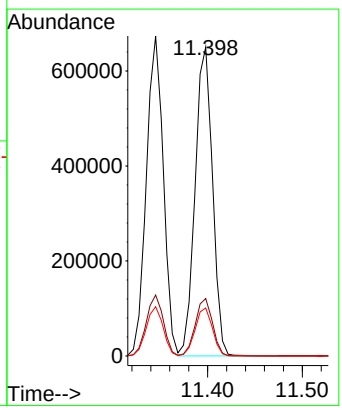
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

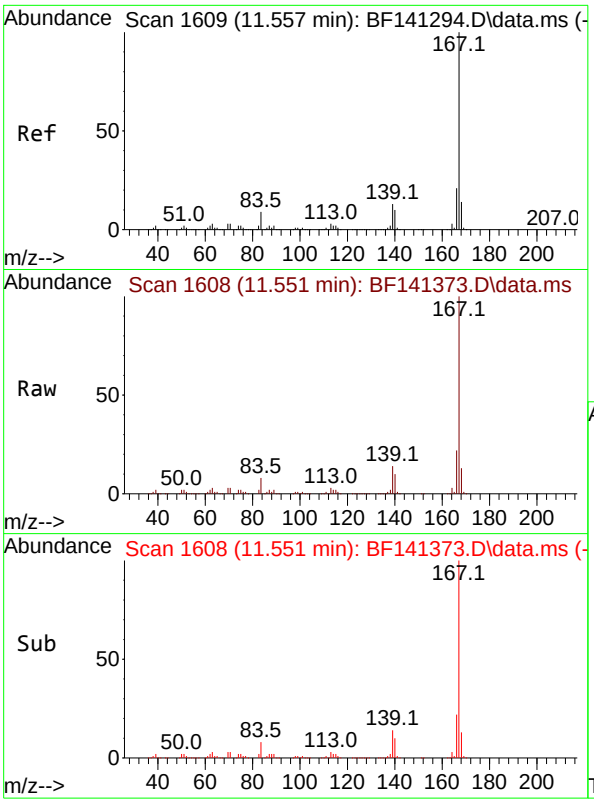


#72
Anthracene
Concen: 41.070 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:178 Resp: 829686

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.5	12.3	18.5

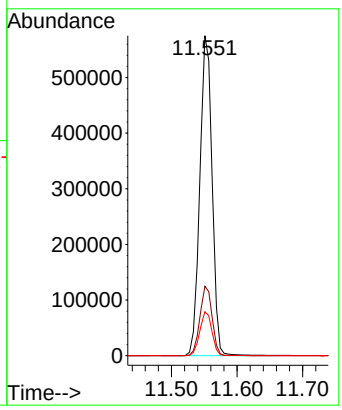




#73
Carbazole
Concen: 41.848 ng
RT: 11.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:167 Resp: 74963

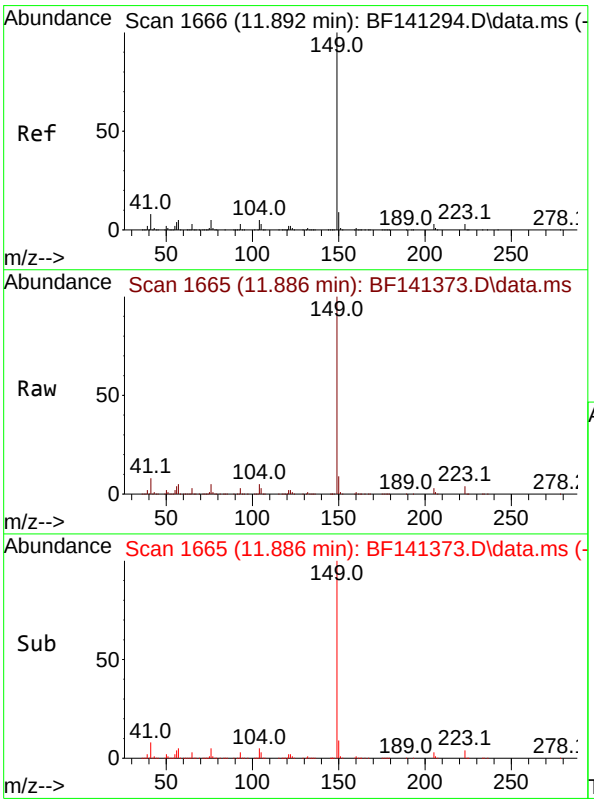
Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	13.8	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

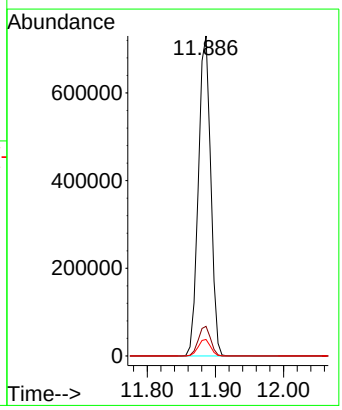
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

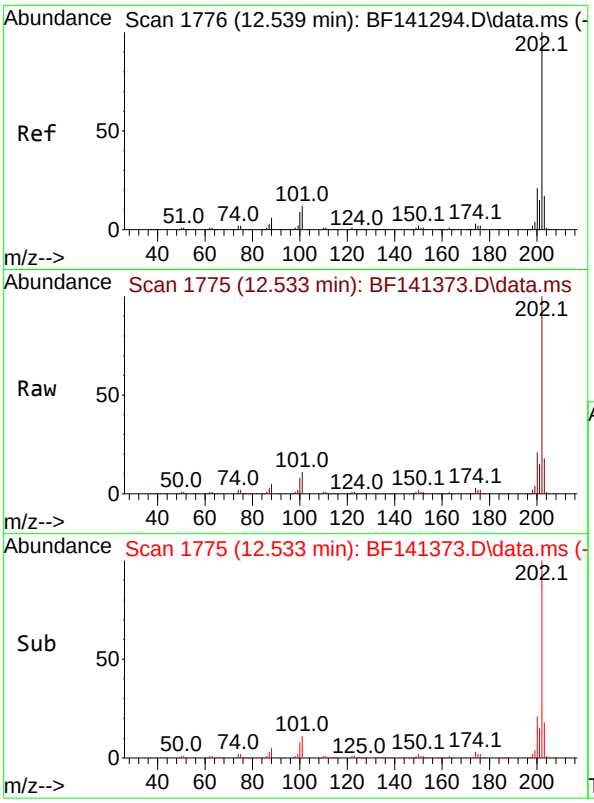


#74
Di-n-butylphthalate
Concen: 42.285 ng
RT: 11.886 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:149 Resp: 917962

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.1	3.9	5.9





#75
Fluoranthene
Concen: 42.335 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

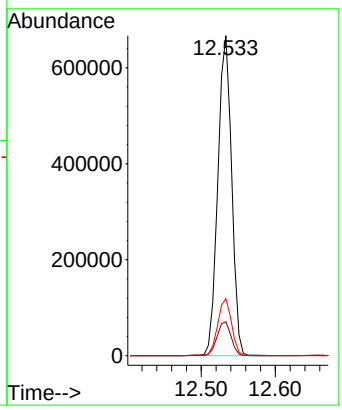
Tgt Ion:202 Resp: 86184

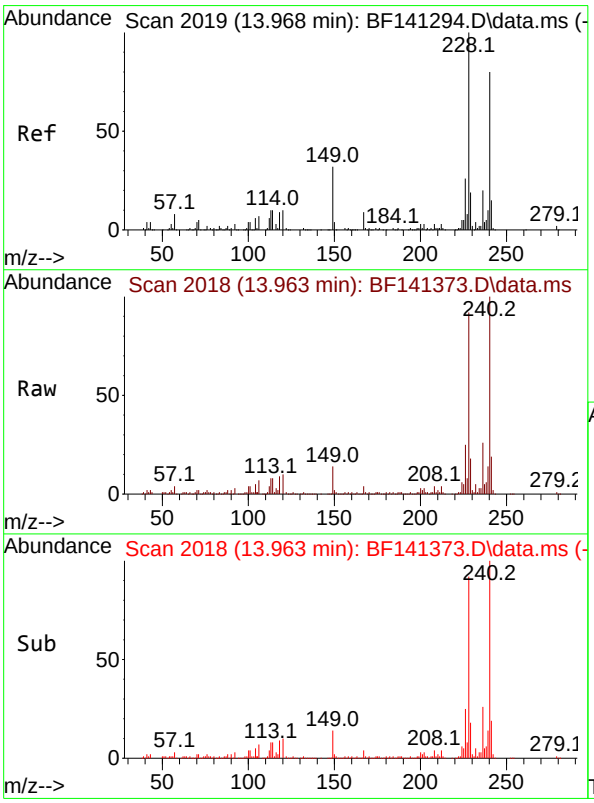
Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.7
203	17.8	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

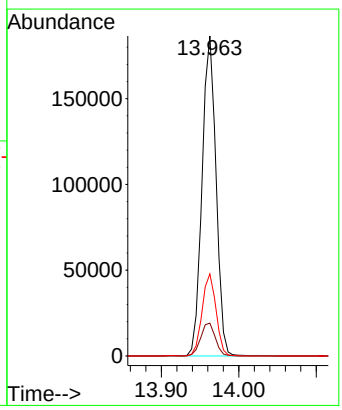


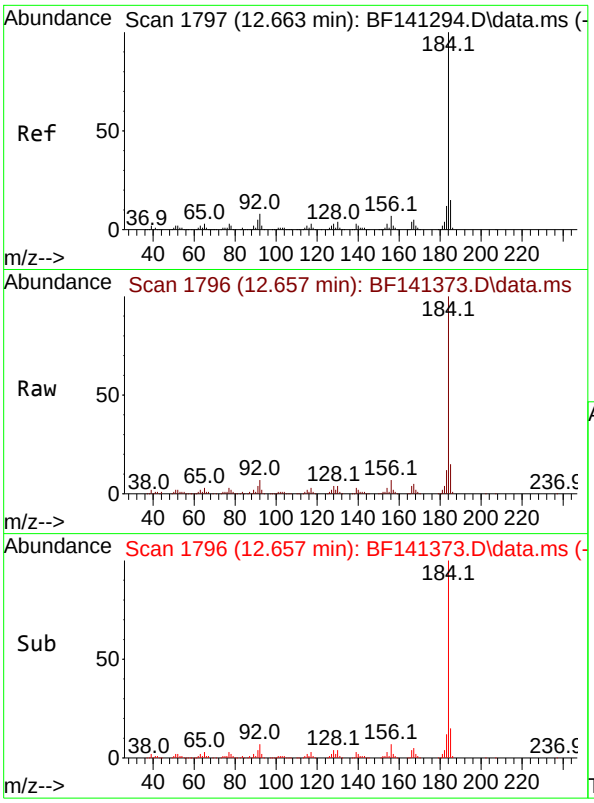


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:240 Resp: 233911

Ion	Ratio	Lower	Upper
240	100		
120	10.3	10.0	15.0
236	25.7	19.7	29.5

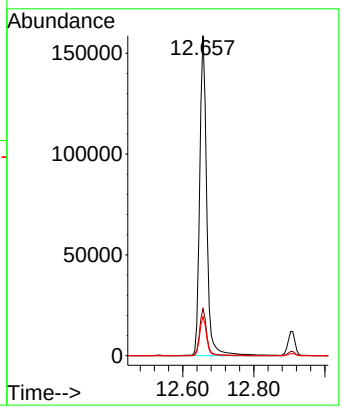




#77
Benzidine
Concen: 29.208 ng
RT: 12.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:184 Resp: 21902

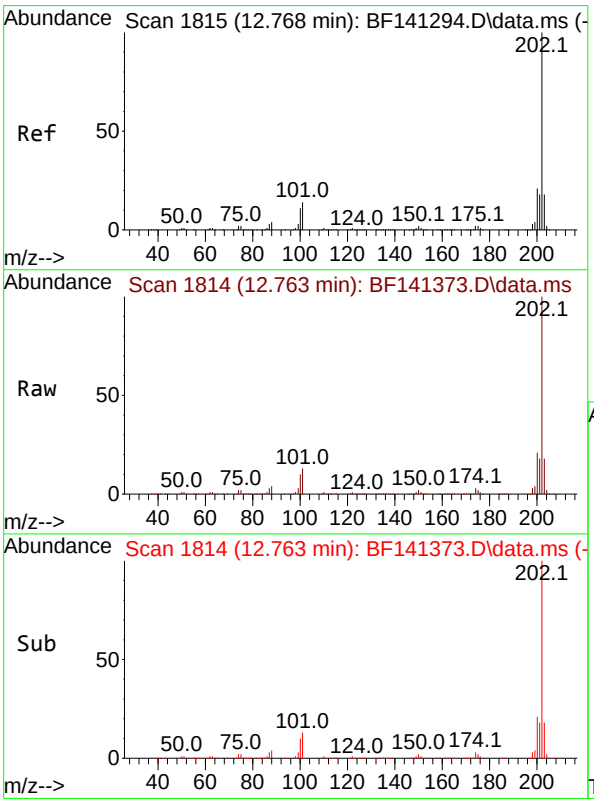
Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.9	17.9
183	12.2	9.5	14.3



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

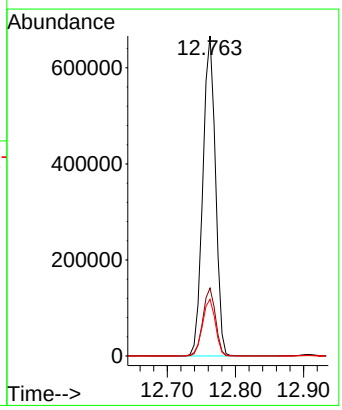
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

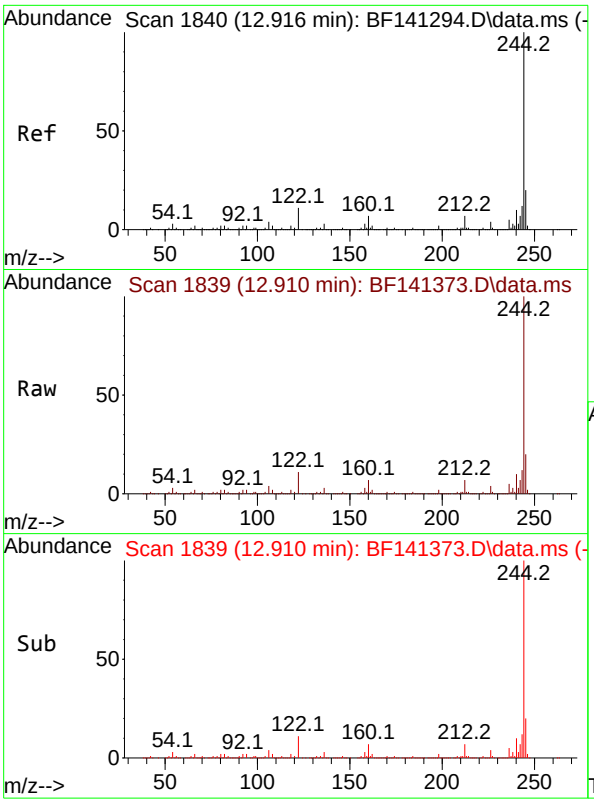


#78
Pyrene
Concen: 38.305 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:202 Resp: 860076

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.7	14.3	21.5

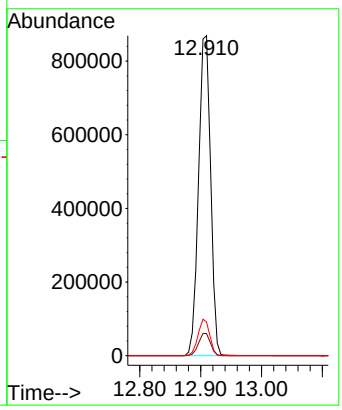




#79
Terphenyl-d14
Concen: 78.604 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:244 Resp: 119222

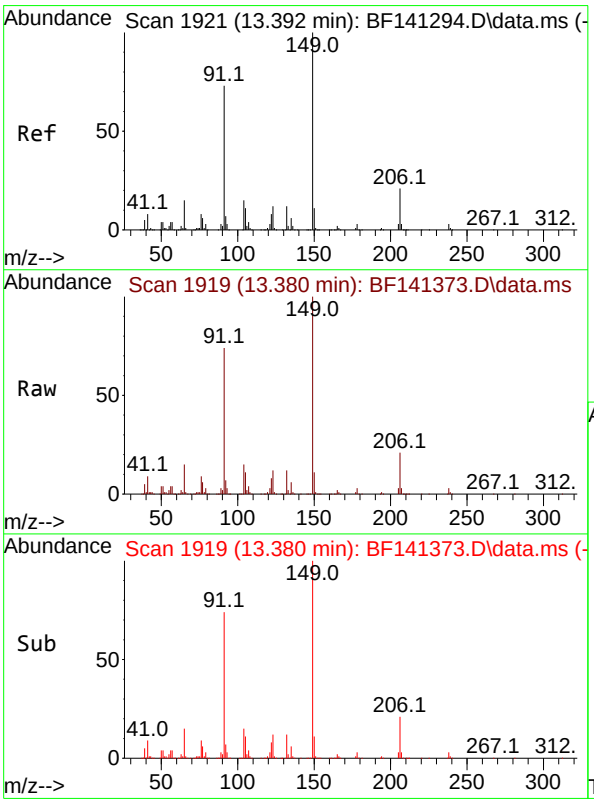
Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	10.5	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

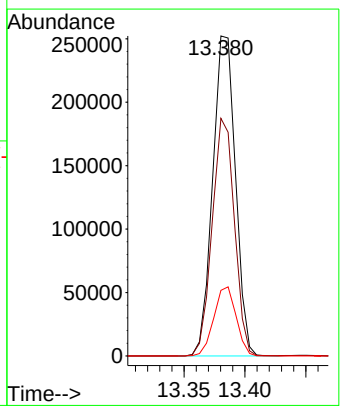
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

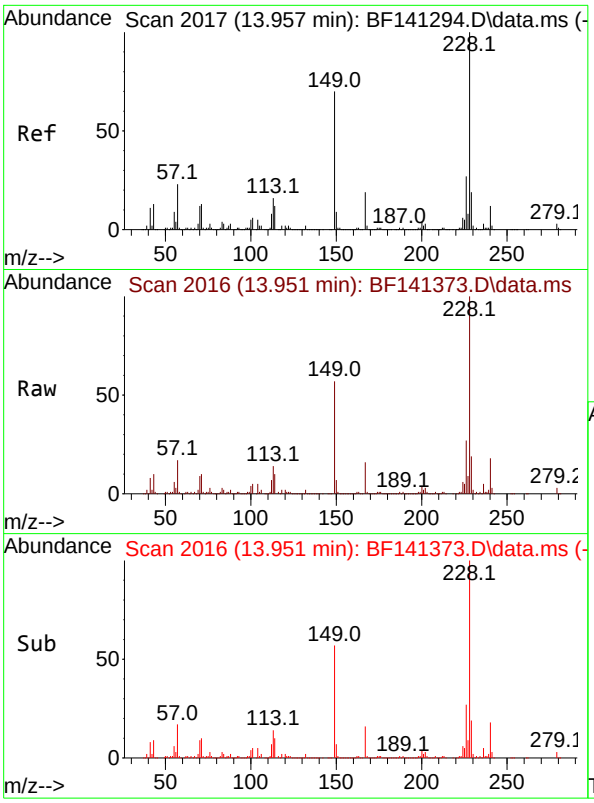


#80
Butylbenzylphthalate
Concen: 41.929 ng
RT: 13.380 min Scan# 1919
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:149 Resp: 328897

Ion	Ratio	Lower	Upper
149	100		
91	74.2	58.6	87.8
206	20.5	16.7	25.1





#81
Benzo(a)anthracene
Concen: 37.437 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

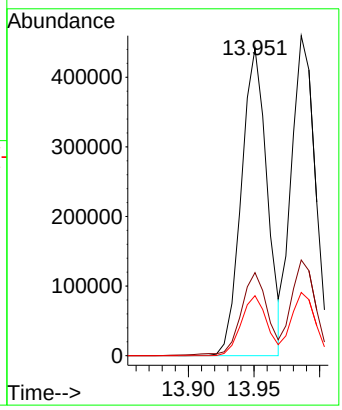
Tgt Ion:228 Resp: 60427

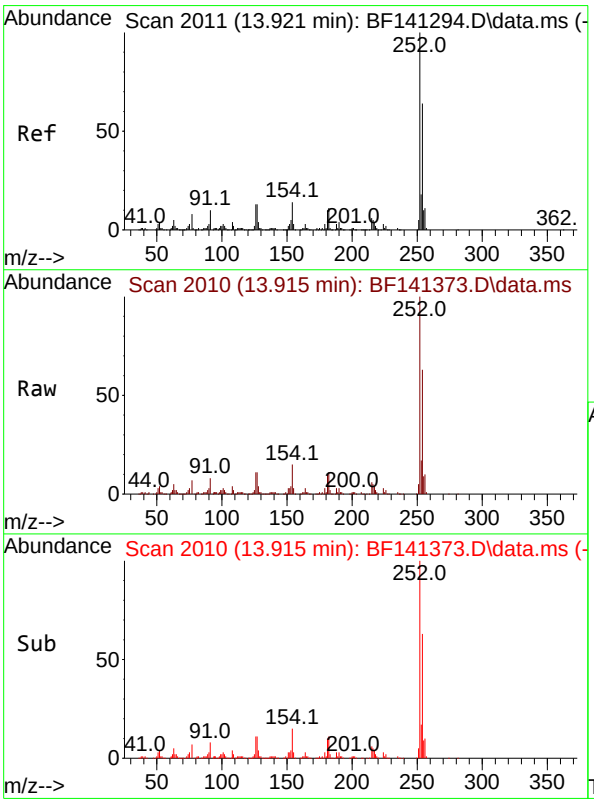
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.2
229	19.5	15.5	23.3

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

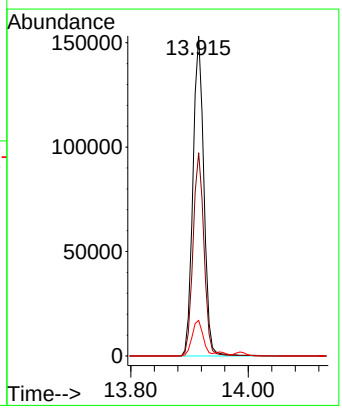


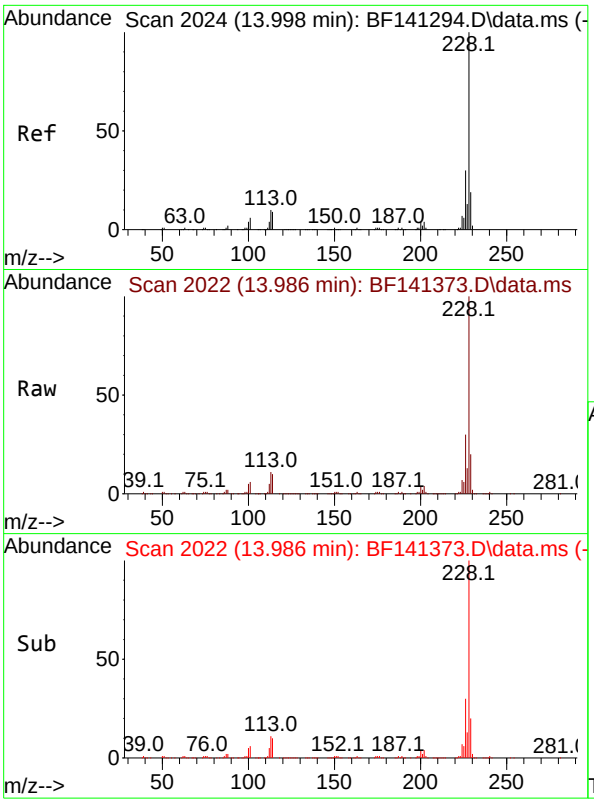


#82
3,3'-Dichlorobenzidine
Concen: 38.639 ng
RT: 13.915 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:252 Resp: 198361

Ion	Ratio	Lower	Upper
252	100		
254	63.5	51.3	76.9
126	11.1	10.0	15.0





#83
Chrysene
Concen: 39.215 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

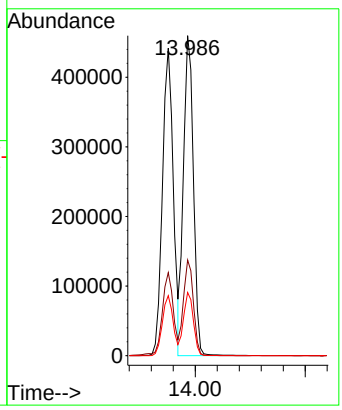
Tgt Ion:228 Resp: 580099

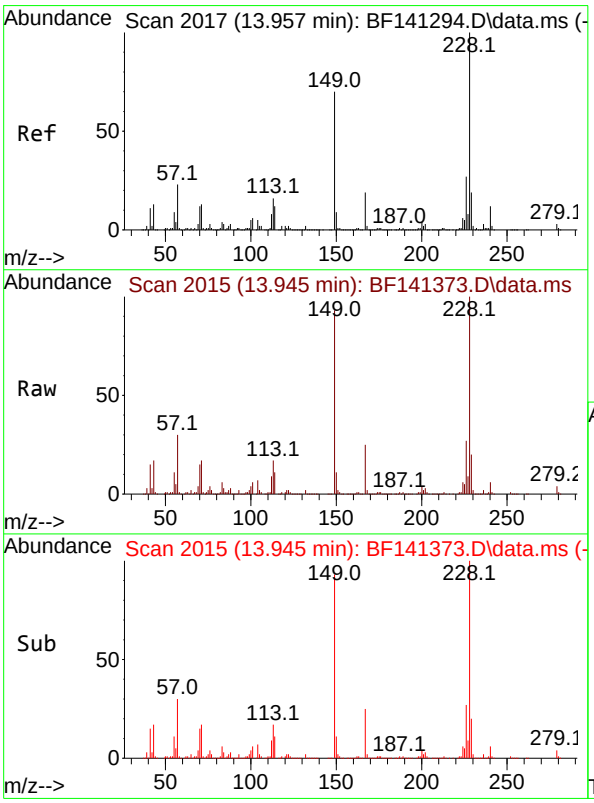
Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.8	15.6	23.4

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

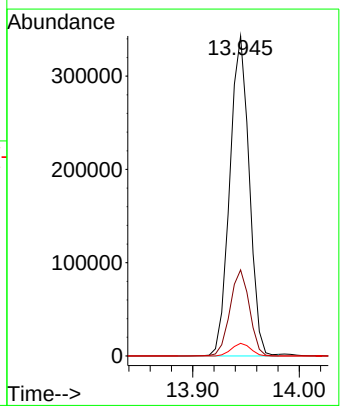


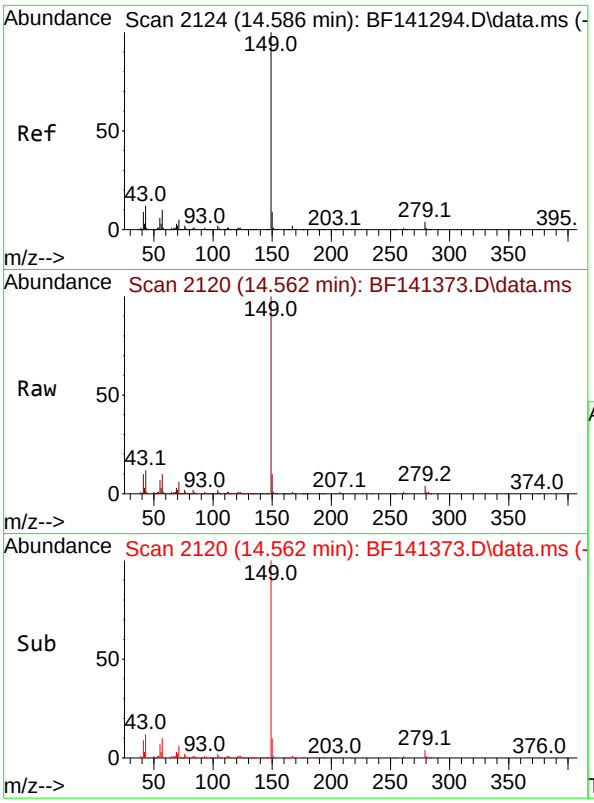


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.840 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:149 Resp: 436237

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.8	32.8
279	4.0	3.3	4.9

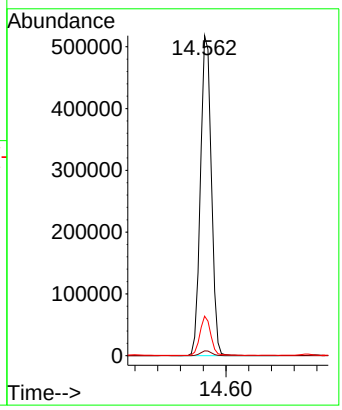




#85
Di-n-octyl phthalate
Concen: 44.601 ng
RT: 14.562 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:149 Resp: 68932

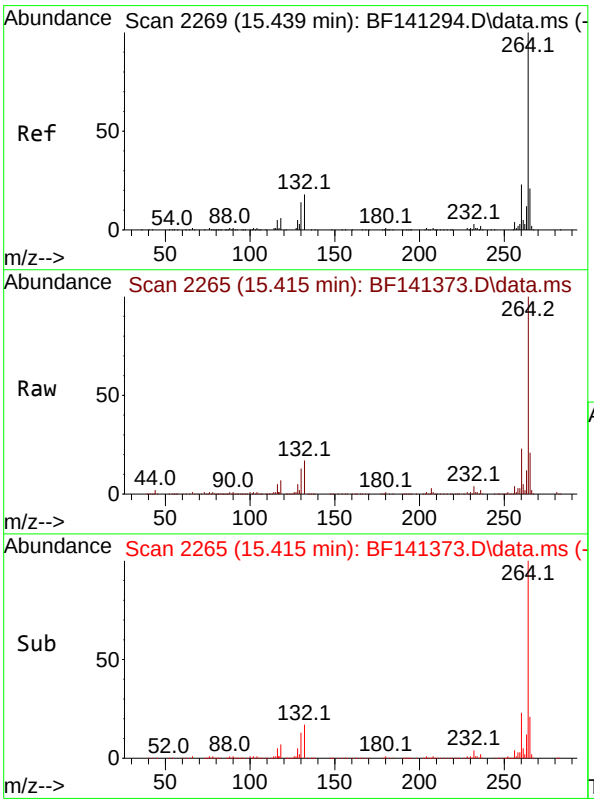
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	12.2	9.8	14.8



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

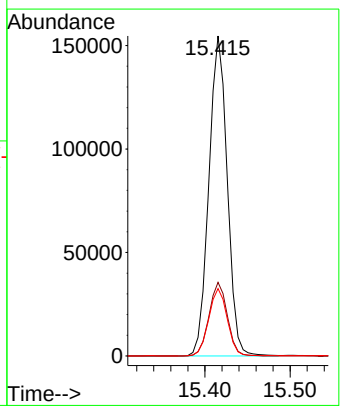
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

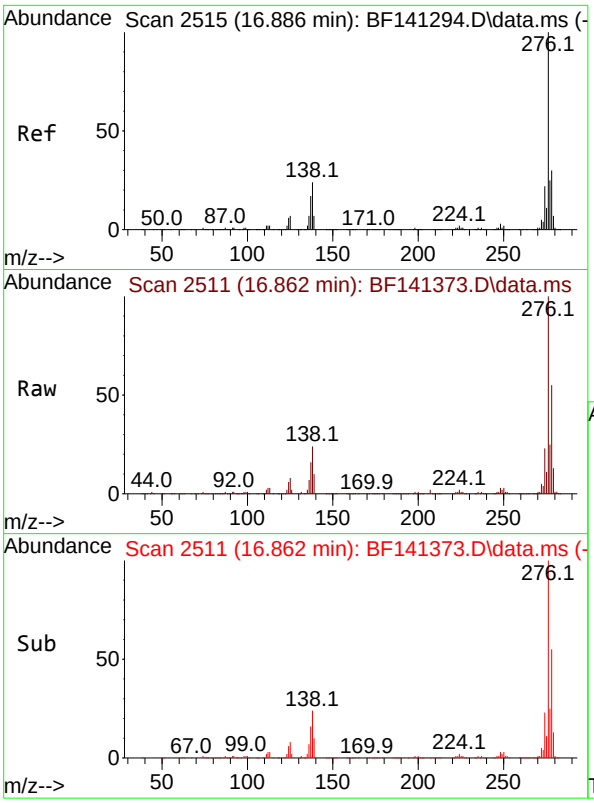


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2265
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:264 Resp: 231577

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	27.8
265	21.1	16.7	25.1

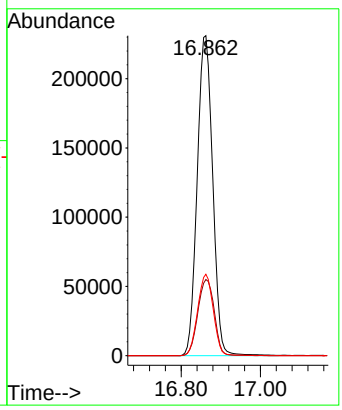




#87
Indeno(1,2,3-cd)pyrene
Concen: 41.938 ng
RT: 16.862 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:276 Resp: 62682

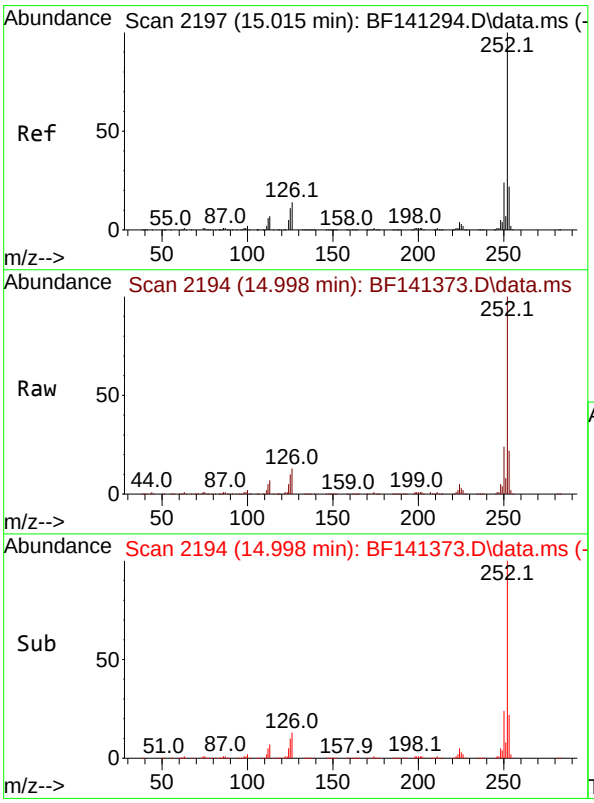
Ion	Ratio	Lower	Upper
276	100		
138	25.3	21.7	32.5
277	25.7	20.3	30.5



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

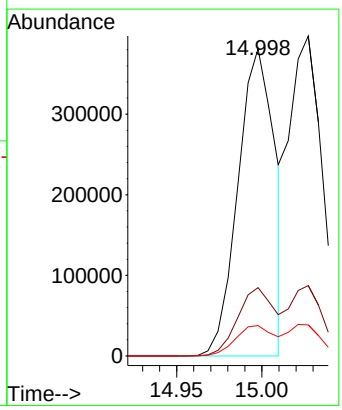
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

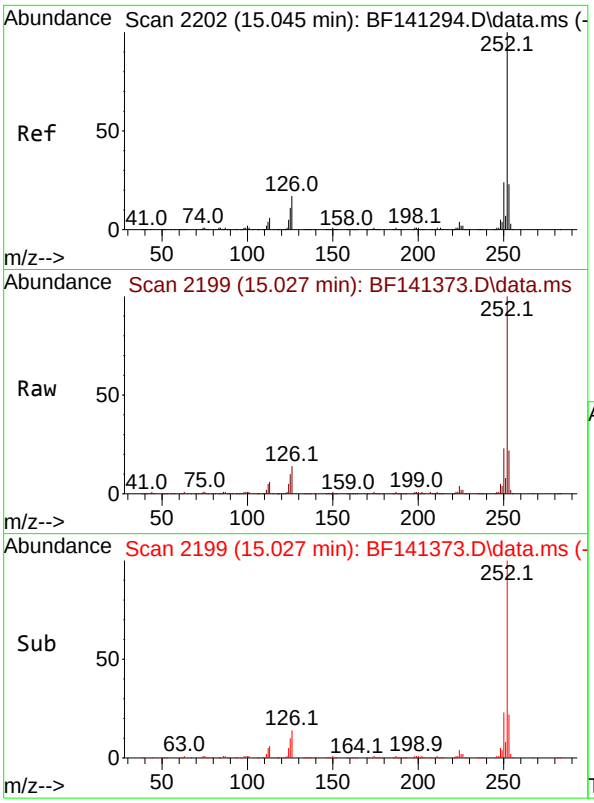


#88
Benzo(b)fluoranthene
Concen: 39.222 ng
RT: 14.998 min Scan# 2194
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:252 Resp: 571343

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	9.9	8.6	12.8

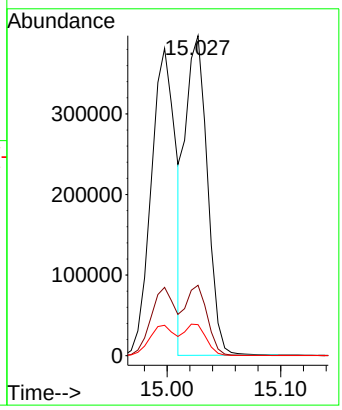




#89
Benzo(k)fluoranthene
Concen: 41.439 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:252 Resp: 53474

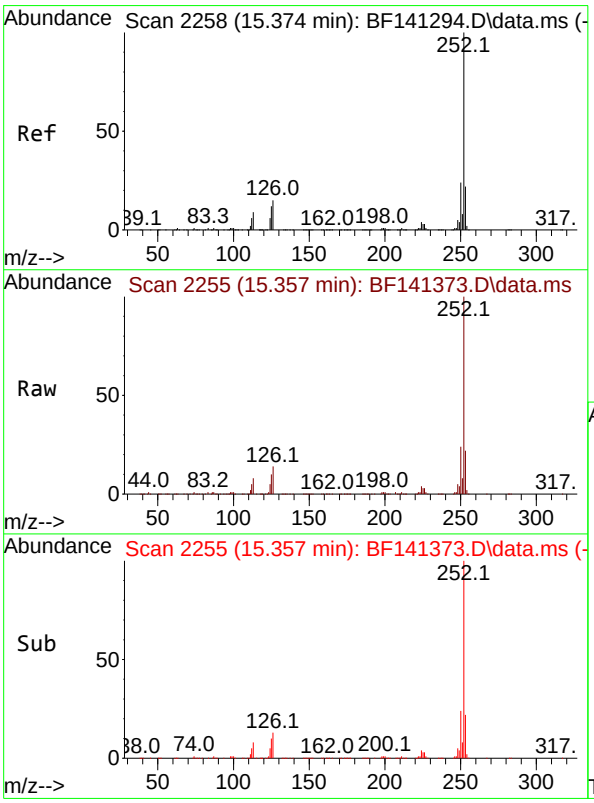
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	9.7	8.4	12.6



Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations
APPROVED

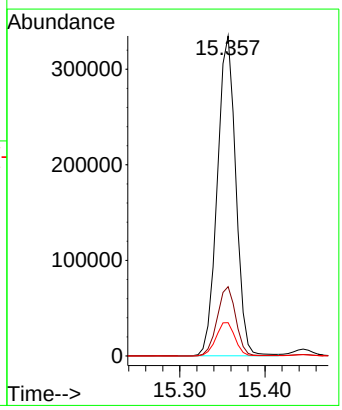
Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

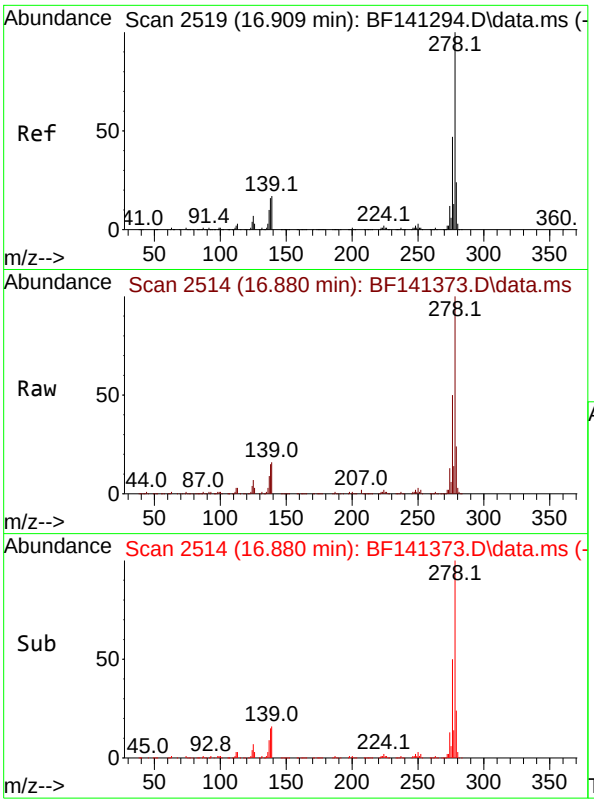


#90
Benzo(a)pyrene
Concen: 40.922 ng
RT: 15.357 min Scan# 2255
Delta R.T. -0.024 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:252 Resp: 503731

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.2	25.8
125	10.4	9.4	14.2





#91
Dibenzo(a,h)anthracene
Concen: 42.442 ng
RT: 16.880 min Scan# 2
Delta R.T. -0.041 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

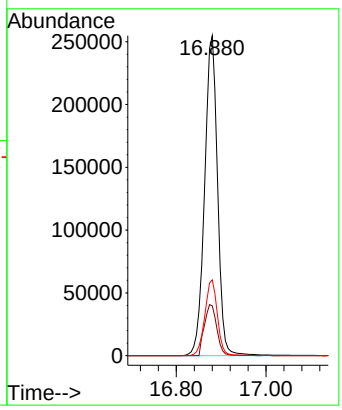
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

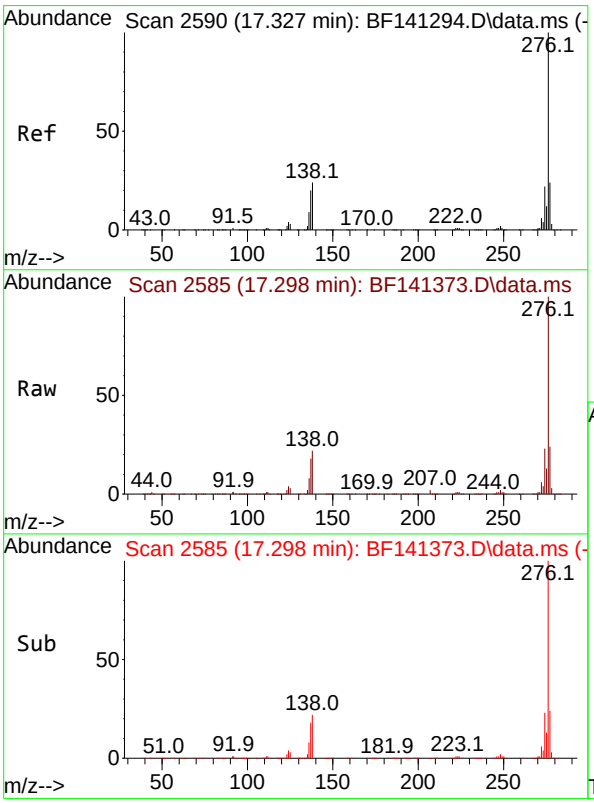
Tgt Ion:278 Resp: 51036

Ion	Ratio	Lower	Upper
278	100		
139	15.6	13.9	20.9
279	23.7	18.8	28.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/04/2025
Supervised By :mohammad ahmed 02/06/2025

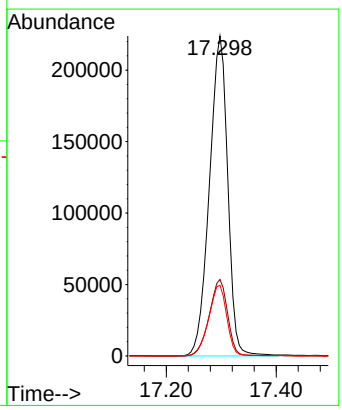




#92
Benzo(g,h,i)perylene
Concen: 41.452 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.047 min
Lab File: BF141373.D
Acq: 03 Feb 2025 17:14

Tgt Ion:276 Resp: 518300

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	22.1	19.0	28.4



Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	76	0.00
2		1,4-Dioxane	0.573	0.582	-1.6	83	-0.02
3		Pyridine	1.380	1.232	10.7	71	-0.02
4		n-Nitrosodimethylamine	0.789	0.821	-4.1	83	-0.04
5	S	2-Fluorophenol	1.303	1.302	0.1	83	0.00
6		Aniline	1.403	1.030	26.6#	58	-0.01
7	S	Phenol-d6	1.657	1.598	3.6	80	0.00
8		2-Chlorophenol	1.396	1.391	0.4	82	0.00
9		Benzaldehyde	0.960	1.038	-8.1	88	0.00
10	C	Phenol	1.757	1.694	3.6	79	0.00
11		bis(2-Chloroethyl)ether	1.347	1.310	2.7	81	-0.01
12		1,3-Dichlorobenzene	1.540	1.536	0.3	82	-0.01
13	C	1,4-Dichlorobenzene	1.547	1.570	-1.5	84	0.00
14		1,2-Dichlorobenzene	1.448	1.471	-1.6	84	0.00
15		Benzyl Alcohol	1.133	1.199	-5.8	85	0.00
16		2,2'-oxybis(1-Chloropropane	2.342	2.192	6.4	76	0.00
17		2-Methylphenol	1.135	1.109	2.3	81	0.00
18		Hexachloroethane	0.571	0.590	-3.3	85	0.00
19	P	n-Nitroso-di-n-propylamine	0.985	0.981	0.4	84	-0.02
20		3+4-Methylphenols	1.393	1.420	-1.9	84	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	78	0.00
22		Acetophenone	0.475	0.486	-2.3	87	-0.01
23	S	Nitrobenzene-d5	0.379	0.382	-0.8	84	0.00
24		Nitrobenzene	0.393	0.389	1.0	81	-0.01
25		Isophorone	0.656	0.653	0.5	83	-0.01
26	C	2-Nitrophenol	0.185	0.188	-1.6	83	-0.01
27		2,4-Dimethylphenol	0.236	0.237	-0.4	82	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.408	2.4	82	-0.01
29	C	2,4-Dichlorophenol	0.289	0.293	-1.4	84	0.00
30		1,2,4-Trichlorobenzene	0.330	0.328	0.6	84	0.00
31		Naphthalene	1.057	1.046	1.0	83	-0.01
32		Benzoic acid	0.217	0.233	-7.4	82	-0.02
33		4-Chloroaniline	0.358	0.293	18.2	67	0.00
34	C	Hexachlorobutadiene	0.194	0.204	-5.2	89	0.00
35		Caprolactam	0.094	0.096	-2.1	84	-0.03
36	C	4-Chloro-3-methylphenol	0.310	0.318	-2.6	86	0.00
37		2-Methylnaphthalene	0.672	0.672	0.0	84	0.00
38		1-Methylnaphthalene	0.660	0.660	0.0	85	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	80	0.00
40		1,2,4,5-Tetrachlorobenzene	0.569	0.571	-0.4	86	0.00
41	P	Hexachlorocyclopentadiene	0.168	0.186	-10.7	86	-0.01
42	S	2,4,6-Tribromophenol	0.183	0.194	-6.0	90	0.00
43	C	2,4,6-Trichlorophenol	0.372	0.380	-2.2	83	0.00
44		2,4,5-Trichlorophenol	0.405	0.413	-2.0	88	0.00
45	S	2-Fluorobiphenyl	1.299	1.292	0.5	87	0.00
46		1,1'-Biphenyl	1.560	1.536	1.5	84	0.00
47		2-Chloronaphthalene	1.216	1.196	1.6	85	0.00

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.388	-1.6	85	0.00
49		Acenaphthylene	1.702	1.683	1.1	84	-0.01
50		Dimethylphthalate	1.351	1.357	-0.4	88	-0.01
51		2,6-Dinitrotoluene	0.314	0.315	-0.3	85	0.00
52	C	Acenaphthene	1.216	1.226	-0.8	87	0.00
53		3-Nitroaniline	0.307	0.310	-1.0	82	-0.01
54	P	2,4-Dinitrophenol	0.146	0.170	-16.4	92	-0.01
55		Dibenzofuran	1.627	1.608	1.2	85	0.00
56	P	4-Nitrophenol	0.225	0.235	-4.4	84	0.01
57		2,4-Dinitrotoluene	0.406	0.423	-4.2	88	-0.01
58		Fluorene	1.262	1.286	-1.9	88	-0.01
59		2,3,4,6-Tetrachlorophenol	0.319	0.336	-5.3	88	0.00
60		Diethylphthalate	1.310	1.346	-2.7	88	-0.01
61		4-Chlorophenyl-phenylether	0.617	0.621	-0.6	88	0.00
62		4-Nitroaniline	0.302	0.327	-8.3	90	-0.01
63		Azobenzene	1.311	1.294	1.3	85	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	0.118	0.140	-18.6	93	0.00
66	c	n-Nitrosodiphenylamine	0.647	0.642	0.8	86	-0.01
67		4-Bromophenyl-phenylether	0.224	0.234	-4.5	90	-0.01
68		Hexachlorobenzene	0.238	0.244	-2.5	89	-0.01
69		Atrazine	0.216	0.216	0.0	85	-0.01
70	C	Pentachlorophenol	0.139	0.157	-12.9	92	0.00
71		Phenanthrene	1.075	1.095	-1.9	89	0.00
72		Anthracene	1.053	1.082	-2.8	90	0.00
73		Carbazole	0.934	0.977	-4.6	91	0.00
74		Di-n-butylphthalate	1.132	1.197	-5.7	92	0.00
75	C	Fluoranthene	1.062	1.123	-5.7	93	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	90	-0.01
77		Benzidine	0.641	0.468	27.0#	58	0.00
78		Pyrene	1.920	1.838	4.3	94	0.00
79	S	Terphenyl-d14	1.297	1.274	1.8	97	0.00
80		Butylbenzylphthalate	0.671	0.703	-4.8	101	-0.01
81		Benzo(a)anthracene	1.380	1.292	6.4	91	-0.01
82		3,3'-Dichlorobenzidine	0.439	0.424	3.4	91	-0.01
83		Chrysene	1.265	1.240	2.0	98	-0.01
84		Bis(2-ethylhexyl)phthalate	0.851	0.932	-9.5	107	-0.01
85	c	Di-n-octyl phthalate	1.321	1.473	-11.5	108	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	83	-0.02
87		Indeno(1,2,3-cd)pyrene	1.291	1.353	-4.8	89	-0.04
88		Benzo(b)fluoranthene	1.258	1.234	1.9	91	-0.02
89		Benzo(k)fluoranthene	1.114	1.155	-3.7	88	-0.02
90	C	Benzo(a)pyrene	1.063	1.088	-2.4	89	-0.02
91		Dibenzo(a,h)anthracene	1.039	1.102	-6.1	90	-0.04
92		Benzo(g,h,i)perylene	1.080	1.119	-3.6	89	-0.05

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	76	0.00
2		1,4-Dioxane	40.000	40.599	-1.5	83	-0.02
3		Pyridine	40.000	35.706	10.7	71	-0.02
4		n-Nitrosodimethylamine	40.000	41.662	-4.2	83	-0.04
5	S	2-Fluorophenol	80.000	79.968	0.0	83	0.00
6		Aniline	40.000	29.356	26.6#	58	-0.01
7	S	Phenol-d6	80.000	77.133	3.6	80	0.00
8		2-Chlorophenol	40.000	39.841	0.4	82	0.00
9		Benzaldehyde	40.000	43.247	-8.1	88	0.00
10	C	Phenol	40.000	38.559	3.6	79	0.00
11		bis(2-Chloroethyl)ether	40.000	38.887	2.8	81	-0.01
12		1,3-Dichlorobenzene	40.000	39.899	0.3	82	-0.01
13	C	1,4-Dichlorobenzene	40.000	40.605	-1.5	84	0.00
14		1,2-Dichlorobenzene	40.000	40.620	-1.5	84	0.00
15		Benzyl Alcohol	40.000	42.330	-5.8	85	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	37.424	6.4	76	0.00
17		2-Methylphenol	40.000	39.098	2.3	81	0.00
18		Hexachloroethane	40.000	41.378	-3.4	85	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.842	0.4	84	-0.02
20		3+4-Methylphenols	40.000	40.751	-1.9	84	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	78	0.00
22		Acetophenone	40.000	40.923	-2.3	87	-0.01
23	S	Nitrobenzene-d5	80.000	80.499	-0.6	84	0.00
24		Nitrobenzene	40.000	39.612	1.0	81	-0.01
25		Isophorone	40.000	39.816	0.5	83	-0.01
26	C	2-Nitrophenol	40.000	40.576	-1.4	83	-0.01
27		2,4-Dimethylphenol	40.000	40.168	-0.4	82	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.010	2.5	82	-0.01
29	C	2,4-Dichlorophenol	40.000	40.508	-1.3	84	0.00
30		1,2,4-Trichlorobenzene	40.000	39.757	0.6	84	0.00
31		Naphthalene	40.000	39.616	1.0	83	-0.01
32		Benzoic acid	40.000	42.934	-7.3	82	-0.02
33		4-Chloroaniline	40.000	32.676	18.3	67	0.00
34	C	Hexachlorobutadiene	40.000	42.128	-5.3	89	0.00
35		Caprolactam	40.000	40.764	-1.9	84	-0.03
36	C	4-Chloro-3-methylphenol	40.000	41.066	-2.7	86	0.00
37		2-Methylnaphthalene	40.000	40.024	-0.1	84	0.00
38		1-Methylnaphthalene	40.000	40.034	-0.1	85	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	80	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.167	-0.4	86	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.173	-10.4	86	-0.01
42	S	2,4,6-Tribromophenol	80.000	84.706	-5.9	90	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.768	-1.9	83	0.00
44		2,4,5-Trichlorophenol	40.000	40.747	-1.9	88	0.00
45	S	2-Fluorobiphenyl	80.000	79.517	0.6	87	0.00
46		1,1'-Biphenyl	40.000	39.393	1.5	84	0.00
47		2-Chloronaphthalene	40.000	39.346	1.6	85	0.00

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	40.613	-1.5	85	0.00
49		Acenaphthylene	40.000	39.561	1.1	84	-0.01
50		Dimethylphthalate	40.000	40.182	-0.5	88	-0.01
51		2,6-Dinitrotoluene	40.000	40.128	-0.3	85	0.00
52	C	Acenaphthene	40.000	40.321	-0.8	87	0.00
53		3-Nitroaniline	40.000	40.403	-1.0	82	-0.01
54	P	2,4-Dinitrophenol	40.000	46.667	-16.7	92	-0.01
55		Dibenzofuran	40.000	39.528	1.2	85	0.00
56	P	4-Nitrophenol	40.000	41.887	-4.7	84	0.01
57		2,4-Dinitrotoluene	40.000	41.657	-4.1	88	-0.01
58		Fluorene	40.000	40.737	-1.8	88	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	42.131	-5.3	88	0.00
60		Diethylphthalate	40.000	41.105	-2.8	88	-0.01
61		4-Chlorophenyl-phenylether	40.000	40.268	-0.7	88	0.00
62		4-Nitroaniline	40.000	43.258	-8.1	90	-0.01
63		Azobenzene	40.000	39.486	1.3	85	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	84	0.00
65		4,6-Dinitro-2-methylphenol	40.000	47.204	-18.0	93	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.703	0.7	86	-0.01
67		4-Bromophenyl-phenylether	40.000	41.761	-4.4	90	-0.01
68		Hexachlorobenzene	40.000	41.015	-2.5	89	-0.01
69		Atrazine	40.000	40.023	-0.1	85	-0.01
70	C	Pentachlorophenol	40.000	45.068	-12.7	92	0.00
71		Phenanthrene	40.000	40.745	-1.9	89	0.00
72		Anthracene	40.000	41.070	-2.7	90	0.00
73		Carbazole	40.000	41.848	-4.6	91	0.00
74		Di-n-butylphthalate	40.000	42.285	-5.7	92	0.00
75	C	Fluoranthene	40.000	42.335	-5.8	93	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	90	-0.01
77		Benzidine	40.000	29.208	27.0#	58	0.00
78		Pyrene	40.000	38.305	4.2	94	0.00
79	S	Terphenyl-d14	80.000	78.604	1.7	97	0.00
80		Butylbenzylphthalate	40.000	41.929	-4.8	101	-0.01
81		Benzo(a)anthracene	40.000	37.437	6.4	91	-0.01
82		3,3'-Dichlorobenzidine	40.000	38.639	3.4	91	-0.01
83		Chrysene	40.000	39.215	2.0	98	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	43.840	-9.6	107	-0.01
85	c	Di-n-octyl phthalate	40.000	44.601	-11.5	108	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	83	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	41.938	-4.8	89	-0.04
88		Benzo(b)fluoranthene	40.000	39.222	1.9	91	-0.02
89		Benzo(k)fluoranthene	40.000	41.439	-3.6	88	-0.02
90	C	Benzo(a)pyrene	40.000	40.922	-2.3	89	-0.02
91		Dibenzo(a,h)anthracene	40.000	42.442	-6.1	90	-0.04
92		Benzo(g,h,i)perylene	40.000	41.452	-3.6	89	-0.05

Sample Results: **BF141373.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141373.D
Acq On : 03 Feb 2025 17:14
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 00:16:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Instrument ID: BNA_F Calibration Date/Time: 02/04/2025 10:42

Lab File ID: BF141398.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.270		-8.0	
2-Fluorophenol	1.303	1.302		-0.1	
Phenol-d6	1.657	1.560		-5.9	
1,4-Dichlorobenzene	1.547	1.539		-0.5	20.0
2-Methylphenol	1.135	1.074		-5.4	
3+4-Methylphenols	1.393	1.375		-1.3	
Nitrobenzene-d5	0.379	0.391		3.2	
Hexachloroethane	0.571	0.583		2.1	
Nitrobenzene	0.393	0.398		1.3	
Hexachlorobutadiene	0.194	0.208		7.2	20.0
2,4,6-Trichlorophenol	0.372	0.382		2.7	20.0
2-Fluorobiphenyl	1.299	1.328		2.2	
2,4,5-Trichlorophenol	0.405	0.421		4.0	
2,4-Dinitrotoluene	0.406	0.441		8.6	
2,4,6-Tribromophenol	0.183	0.202		10.4	
Hexachlorobenzene	0.238	0.243		2.1	
Pentachlorophenol	0.139	0.161		15.8	20.0
Terphenyl-d14	1.297	1.200		-7.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.793	152	87552	20.000	ng		-0.01
21) Naphthalene-d8	8.075	136	331835	20.000	ng		#-0.01
39) Acenaphthene-d10	9.828	164	180473	20.000	ng		-0.01
64) Phenanthrene-d10	11.316	188	318826	20.000	ng		-0.01
76) Chrysene-d12	13.963	240	235294	20.000	ng		-0.01
86) Perylene-d12	15.421	264	201713	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.404	112	455924	79.945	ng		0.00
7) Phenol-d6	6.434	99	546451	75.322	ng		0.00
23) Nitrobenzene-d5	7.357	82	519110	82.468	ng		-0.01
42) 2,4,6-Tribromophenol	10.622	330	145841	88.147	ng		-0.01
45) 2-Fluorobiphenyl	9.151	172	958786	81.771	ng		-0.01
79) Terphenyl-d14	12.904	244	1129373	74.022	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.440	88	97099	38.714	ng		98
3) Pyridine	3.175	79	222403	36.803	ng		97
4) n-Nitrosodimethylamine	3.122	42	142862m	41.383	ng		
6) Aniline	6.451	93	220322	35.876	ng	#	16
8) 2-Chlorophenol	6.581	128	242879	39.734	ng		96
9) Benzaldehyde	6.340	77	156434	37.226	ng		99
10) Phenol	6.445	94	288967	37.574	ng	#	71
11) bis(2-Chloroethyl)ether	6.528	93	221049	37.487	ng		98
12) 1,3-Dichlorobenzene	6.734	146	262908	39.009	ng		99
13) 1,4-Dichlorobenzene	6.810	146	269514	39.806	ng		100
14) 1,2-Dichlorobenzene	6.963	146	251753	39.708	ng		99
15) Benzyl Alcohol	6.934	79	203978	41.142	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.069	45	369176	36.004	ng		80
17) 2-Methylphenol	7.057	107	188055	37.854	ng	#	92
18) Hexachloroethane	7.304	117	102015	40.842	ng		97
19) n-Nitroso-di-n-propyla...	7.204	70	162661	37.733	ng		100
20) 3+4-Methylphenols	7.210	107	240839	39.483	ng	#	88
22) Acetophenone	7.198	105	326166	41.351	ng	#	98
24) Nitrobenzene	7.375	77	264172	40.497	ng		100
25) Isophorone	7.610	82	426672	39.213	ng		99
26) 2-Nitrophenol	7.692	139	122977	39.973	ng		97
27) 2,4-Dimethylphenol	7.734	122	152342m	38.904	ng		
28) bis(2-Chloroethoxy)met...	7.828	93	267181	38.495	ng		99
29) 2,4-Dichlorophenol	7.939	162	196668	41.025	ng		99
30) 1,2,4-Trichlorobenzene	8.016	180	222442	40.631	ng		99
31) Naphthalene	8.098	128	703917	40.155	ng		100
32) Benzoic acid	7.845	122	152241	42.292	ng		100
33) 4-Chloroaniline	8.151	127	230545	38.783	ng		99
34) Hexachlorobutadiene	8.216	225	137723	42.897	ng		99
35) Caprolactam	8.510	113	62051	39.634	ng		95
36) 4-Chloro-3-methylphenol	8.634	107	215967	42.000	ng		95
37) 2-Methylnaphthalene	8.787	142	453714	40.722	ng		98
38) 1-Methylnaphthalene	8.886	142	443121	40.487	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	211825	41.257	ng		100
41) Hexachlorocyclopentadiene	8.939	237	66678	43.974	ng		100
43) 2,4,6-Trichlorophenol	9.069	196	137805	41.007	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

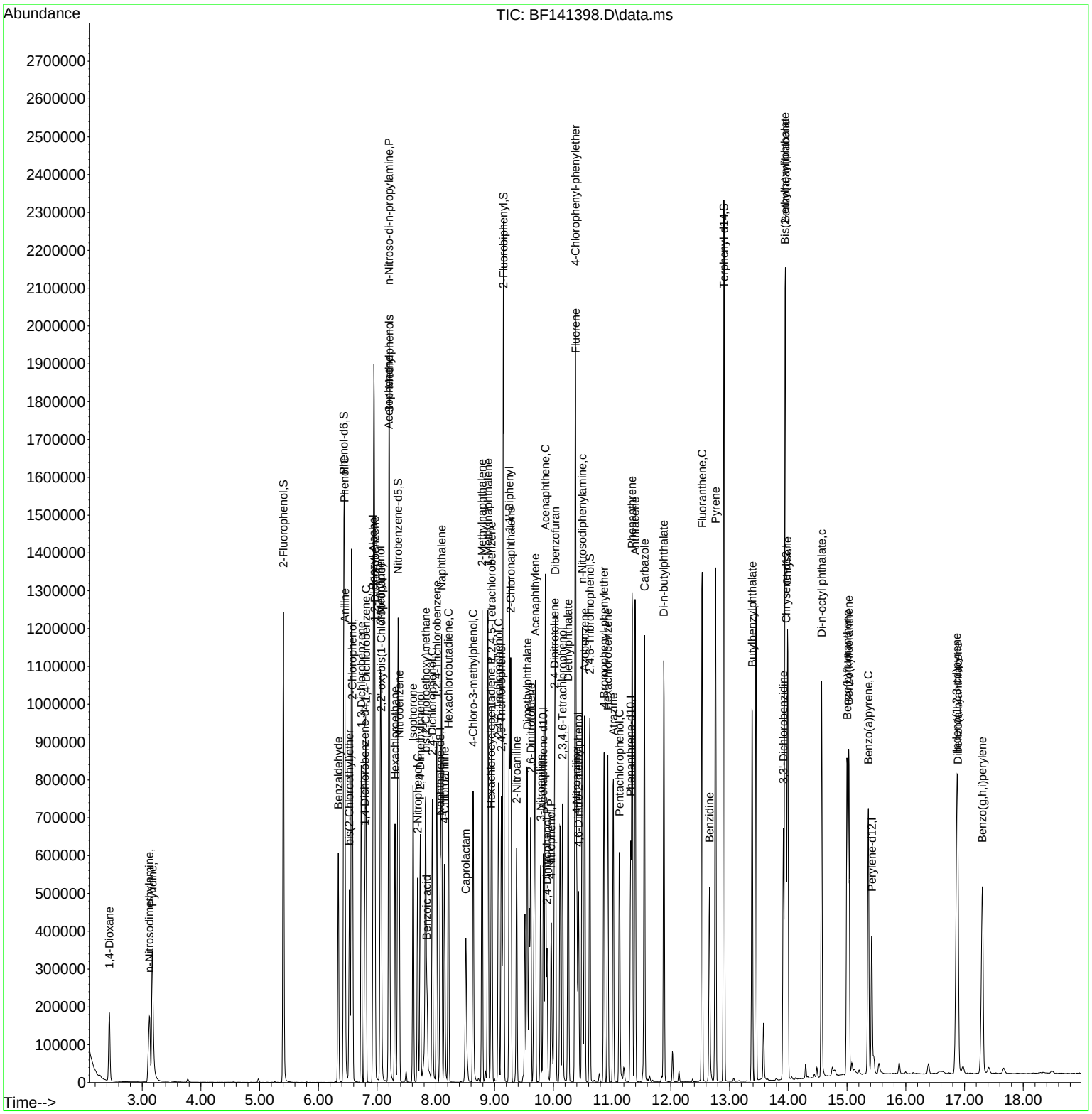
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	152071	41.577	ng	100
46) 1,1'-Biphenyl	9.251	154	564241	40.089	ng	99
47) 2-Chloronaphthalene	9.275	162	436455	39.785	ng	99
48) 2-Nitroaniline	9.375	65	140664	40.764	ng	99
49) Acenaphthylene	9.692	152	619791	40.360	ng	100
50) Dimethylphthalate	9.557	163	494930	40.604	ng	100
51) 2,6-Dinitrotoluene	9.616	165	115835	40.929	ng	98
52) Acenaphthene	9.863	154	453408	41.328	ng	100
53) 3-Nitroaniline	9.786	138	115797	41.746	ng	98
54) 2,4-Dinitrophenol	9.892	184	59519	45.240	ng	92
55) Dibenzofuran	10.033	168	602409	41.022	ng	97
56) 4-Nitrophenol	9.963	139	92908	45.798	ng	96
57) 2,4-Dinitrotoluene	10.022	165	159291	43.471	ng	98
58) Fluorene	10.381	166	471526	41.395	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.157	232	123166	42.803	ng	98
60) Diethylphthalate	10.251	149	495870	41.956	ng	99
61) 4-Chlorophenyl-phenyle...	10.375	204	233902	42.037	ng	100
62) 4-Nitroaniline	10.398	138	123996	45.468	ng	93
63) Azobenzene	10.533	77	475982	40.234	ng	98
65) 4,6-Dinitro-2-methylph...	10.428	198	87646	46.476	ng	97
66) n-Nitrosodiphenylamine	10.492	169	404177	39.195	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	143325	40.154	ng	99
68) Hexachlorobenzene	10.928	284	155137	40.974	ng	99
69) Atrazine	11.022	200	136423	39.568	ng	99
70) Pentachlorophenol	11.128	266	102799	46.366	ng	100
71) Phenanthrene	11.339	178	707114	41.259	ng	99
72) Anthracene	11.392	178	696374	41.470	ng	99
73) Carbazole	11.551	167	655823	44.044	ng	99
74) Di-n-butylphthalate	11.880	149	774119	42.899	ng	100
75) Fluoranthene	12.533	202	790425	46.710	ng	98
77) Benzidine	12.657	184	284455	37.710	ng	99
78) Pyrene	12.763	202	813495	36.018	ng	100
80) Butylbenzylphthalate	13.386	149	325399	41.239	ng	97
81) Benzo(a)anthracene	13.951	228	614138	37.824	ng	99
82) 3,3'-Dichlorobenzidine	13.916	252	193800	37.529	ng	99
83) Chrysene	13.986	228	597592	40.160	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	428215	42.781	ng	98
85) Di-n-octyl phthalate	14.568	149	666025	42.840	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	539887	41.469	ng	97
88) Benzo(b)fluoranthene	15.004	252	541045	42.641	ng	99
89) Benzo(k)fluoranthene	15.027	252	459921	40.917	ng	99
90) Benzo(a)pyrene	15.363	252	432427	40.330	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	430740	41.123	ng	98
92) Benzo(g,h,i)perylene	17.304	276	448843	41.212	ng	96

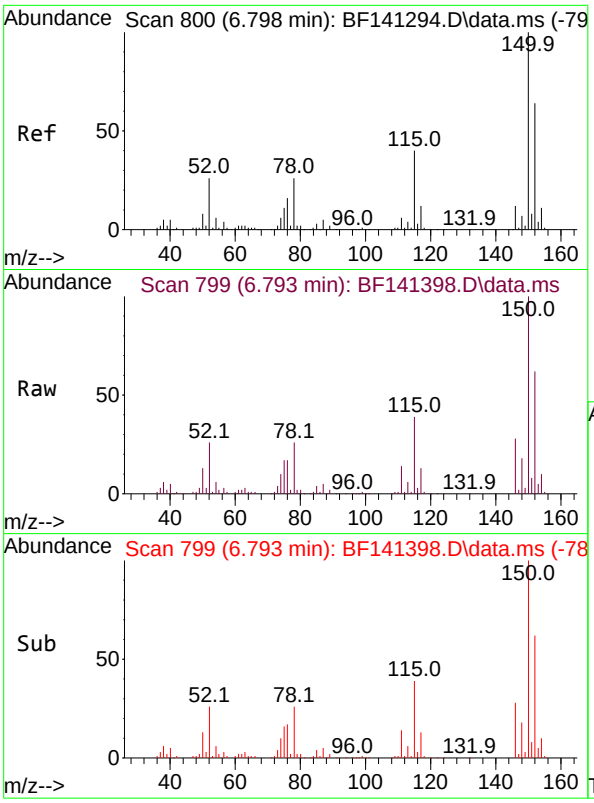
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



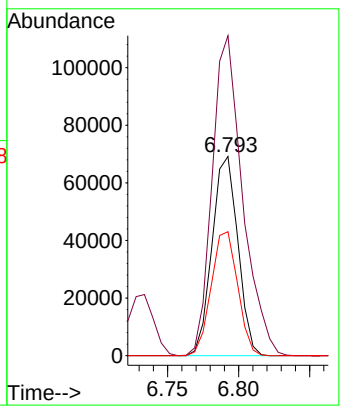


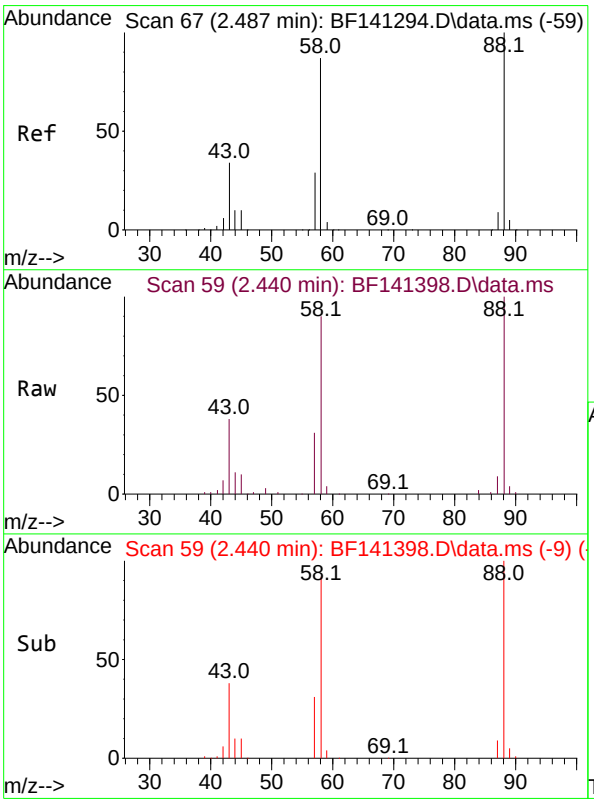
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 87552

Ion	Ratio	Lower	Upper
152	100		
150	160.6	125.9	188.9
115	62.3	49.7	74.5

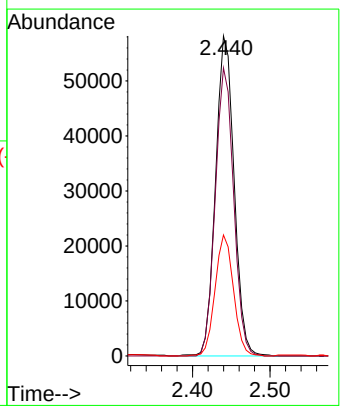


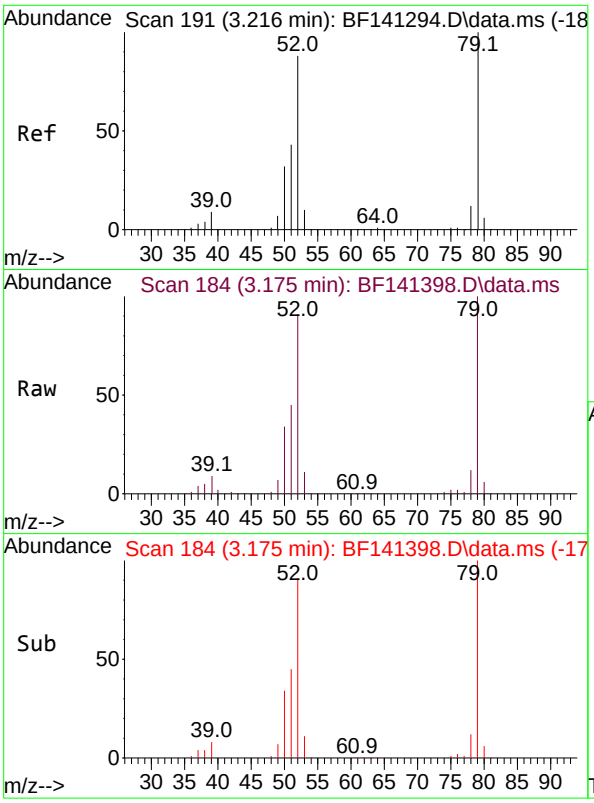


#2
1,4-Dioxane
Concen: 38.714 ng
RT: 2.440 min Scan# 59
Delta R.T. -0.053 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 88 Resp: 97099

Ion	Ratio	Lower	Upper
88	100		
58	89.1	70.2	105.4
43	37.5	27.6	41.4



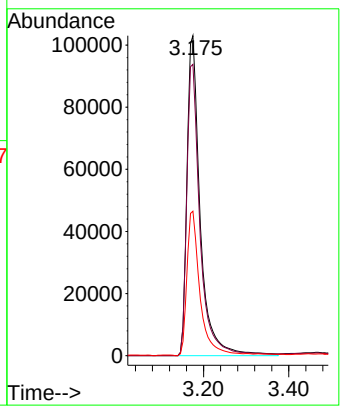


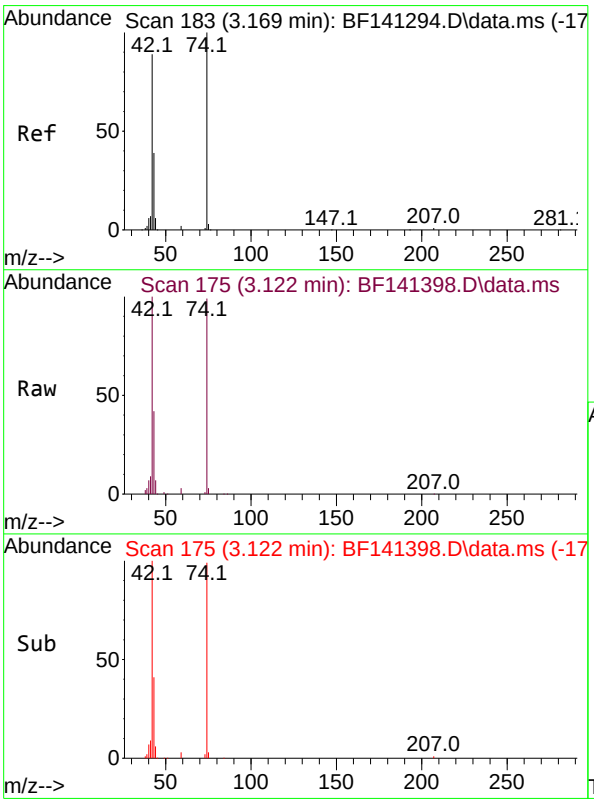
#3
Pyridine
Concen: 36.803 ng
RT: 3.175 min Scan# 1
Delta R.T. -0.053 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 222403

Ion	Ratio	Lower	Upper
79	100		
52	91.1	70.3	105.5
51	45.1	34.3	51.5

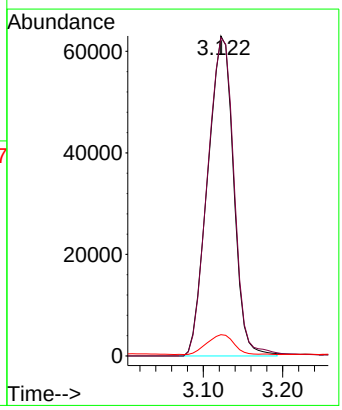


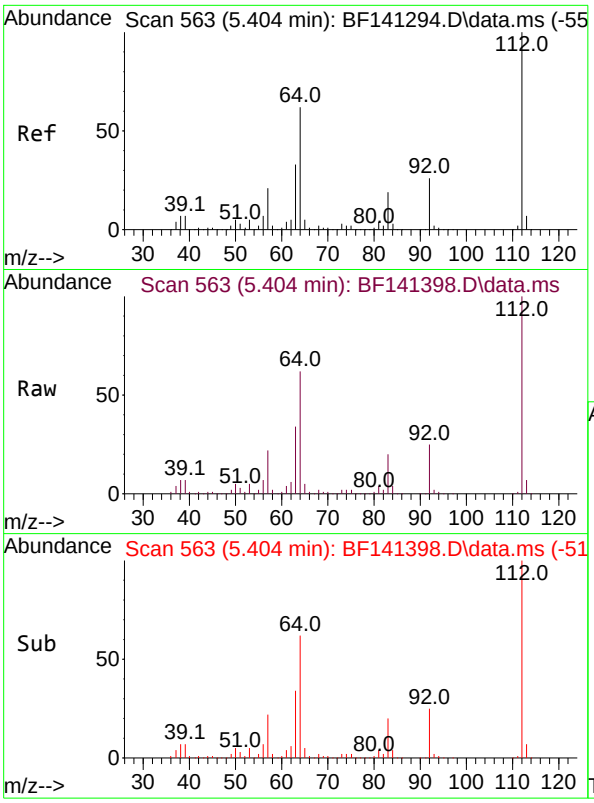


#4
n-Nitrosodimethylamine
Concen: 41.383 ng m
RT: 3.122 min Scan# 175
Delta R.T. -0.077 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 42 Resp: 142862

Ion	Ratio	Lower	Upper
42	100		
74	99.4	90.3	135.5
44	6.7	5.7	8.5



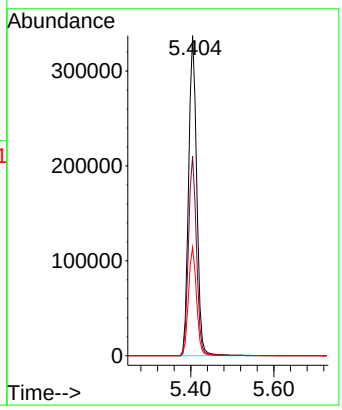


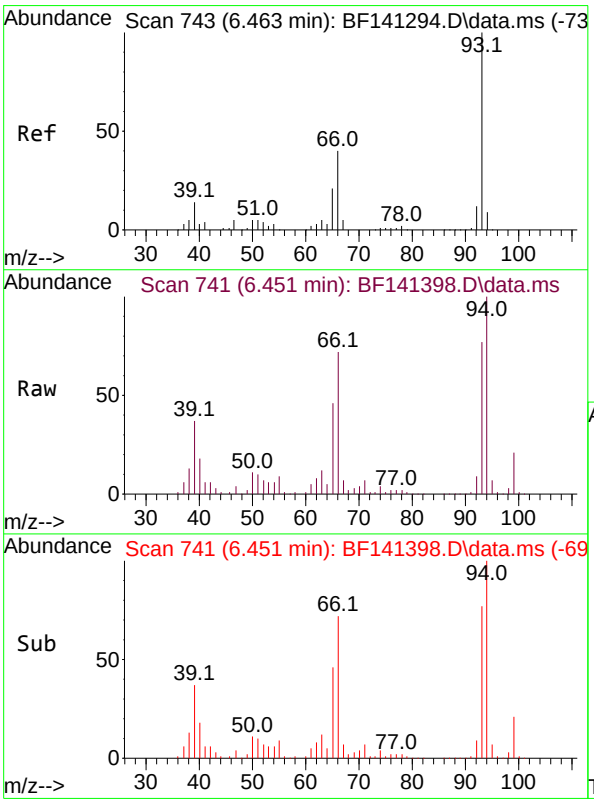
#5
2-Fluorophenol
Concen: 79.945 ng
RT: 5.404 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 455924

Ion	Ratio	Lower	Upper
112	100		
64	62.3	49.8	74.8
63	33.9	26.1	39.1

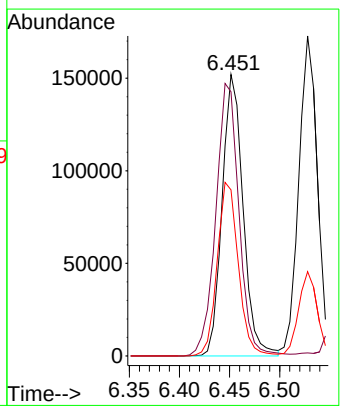


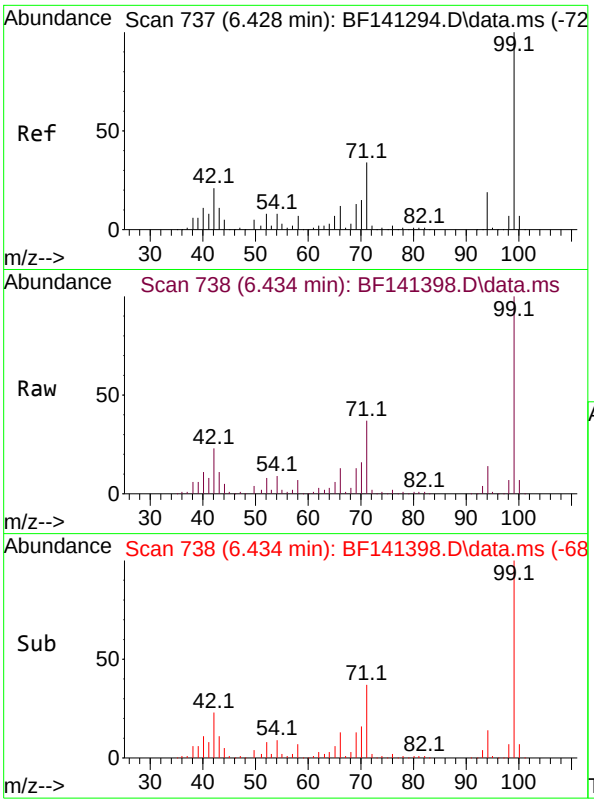


#6
Aniline
Concen: 35.876 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 93 Resp: 220322

Ion	Ratio	Lower	Upper
93	100		
66	93.9	32.5	48.7#
65	59.0	17.0	25.6#



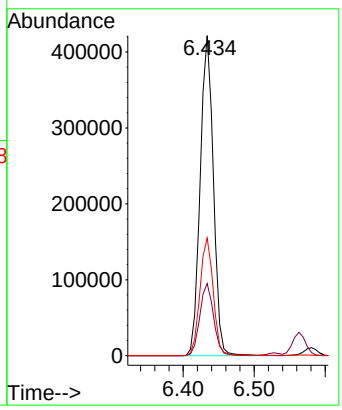


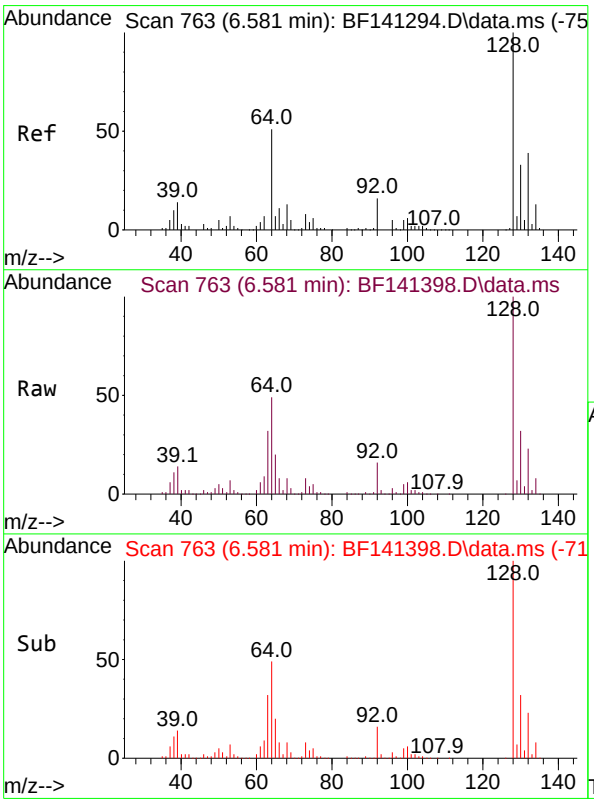
#7
Phenol-d6
Concen: 75.322 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 546451

Ion	Ratio	Lower	Upper
99	100		
42	22.5	17.1	25.7
71	36.7	26.9	40.3

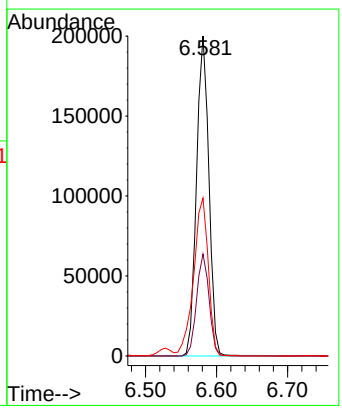


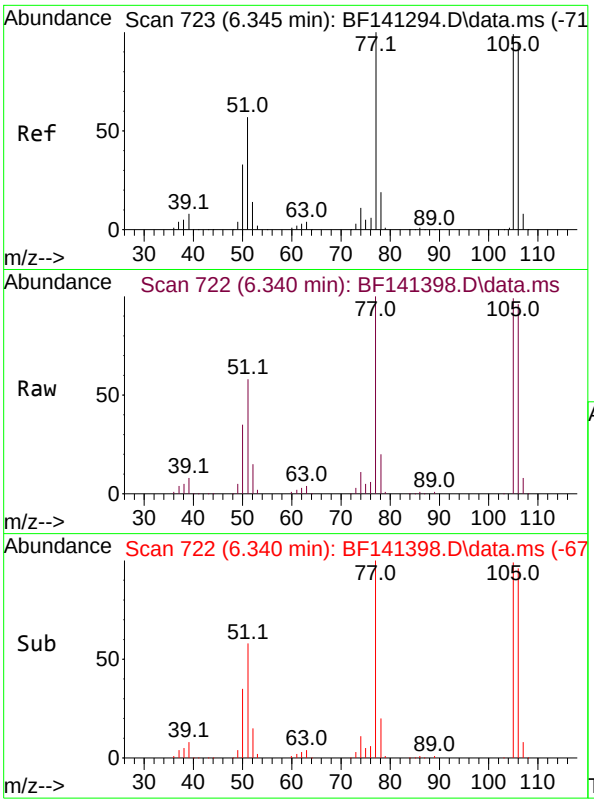


#8
2-Chlorophenol
Concen: 39.734 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:128 Resp: 242879

Ion	Ratio	Lower	Upper
128	100		
130	31.8	12.5	52.5
64	49.3	32.9	72.9



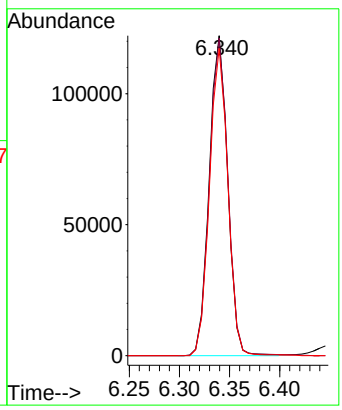


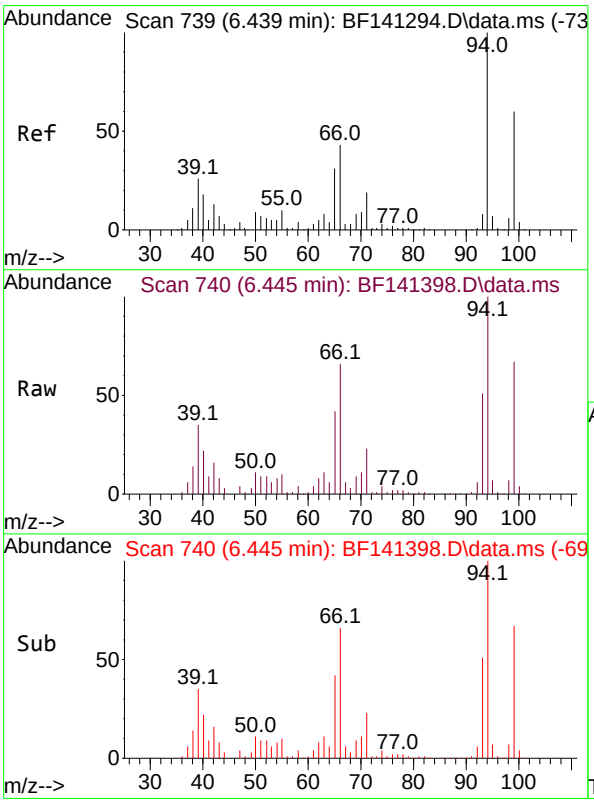
#9
Benzaldehyde
Concen: 37.226 ng
RT: 6.340 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 156434

Ion	Ratio	Lower	Upper
77	100		
105	99.2	79.4	119.4
106	96.0	74.6	114.6

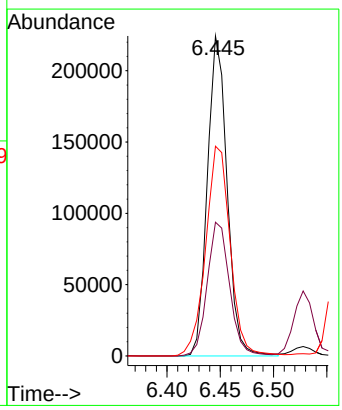


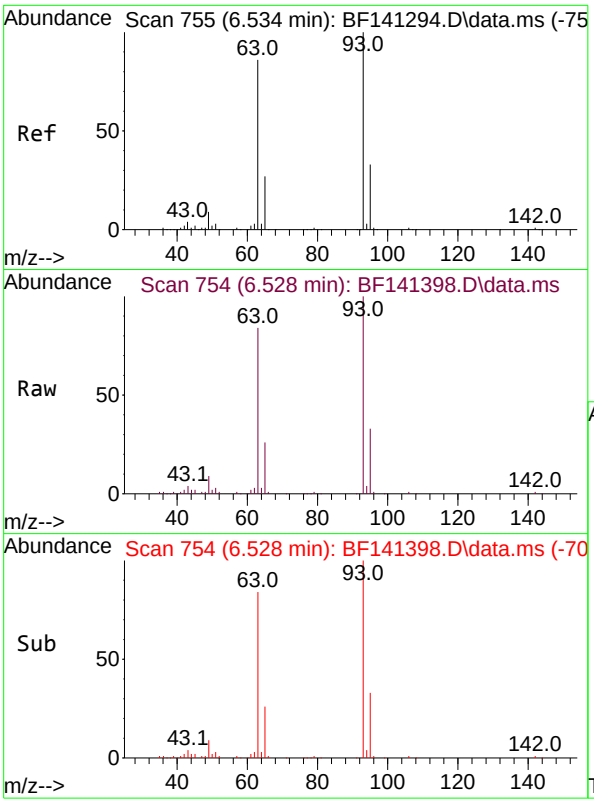


#10
Phenol
Concen: 37.574 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 94 Resp: 288967

Ion	Ratio	Lower	Upper
94	100		
65	41.8	10.8	50.8
66	65.6	23.3	63.3#



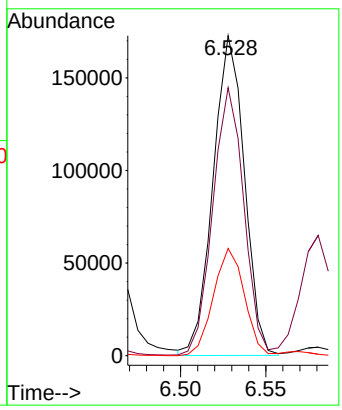


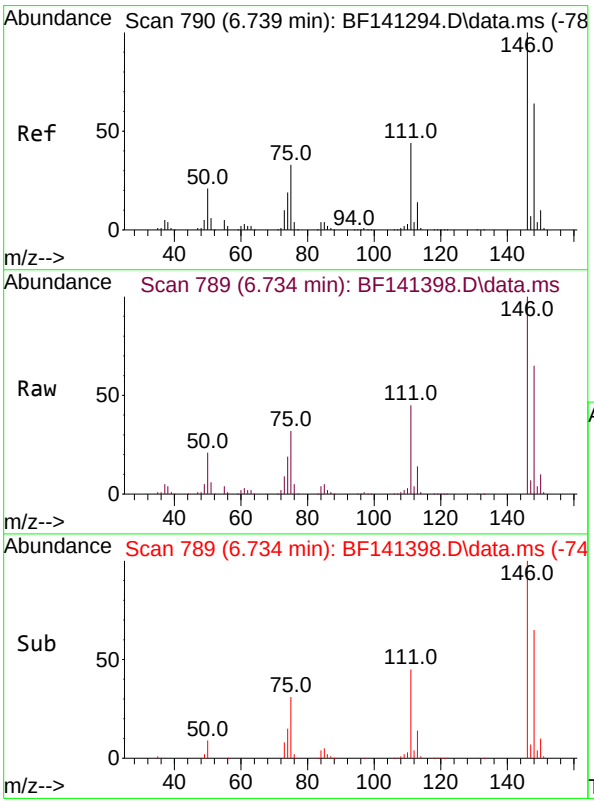
#11
bis(2-Chloroethyl)ether
Concen: 37.487 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 221049

Ion	Ratio	Lower	Upper
93	100		
63	83.7	65.0	105.0
95	33.5	12.4	52.4

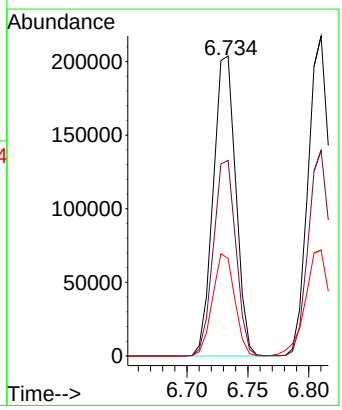


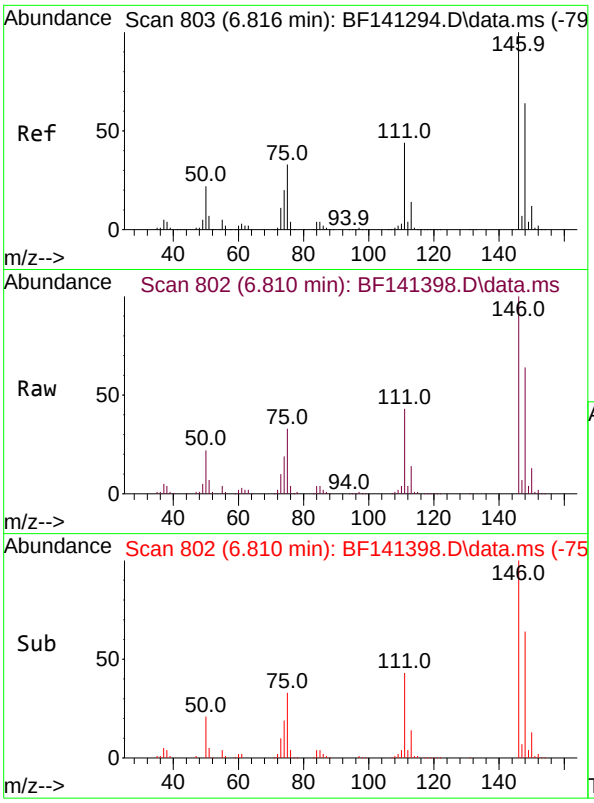


#12
1,3-Dichlorobenzene
Concen: 39.009 ng
RT: 6.734 min Scan# 789
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:146 Resp: 262908

Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.2	76.8
75	32.5	26.2	39.4



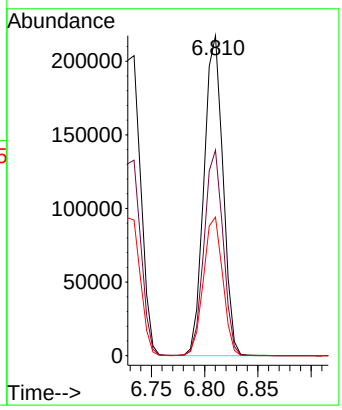


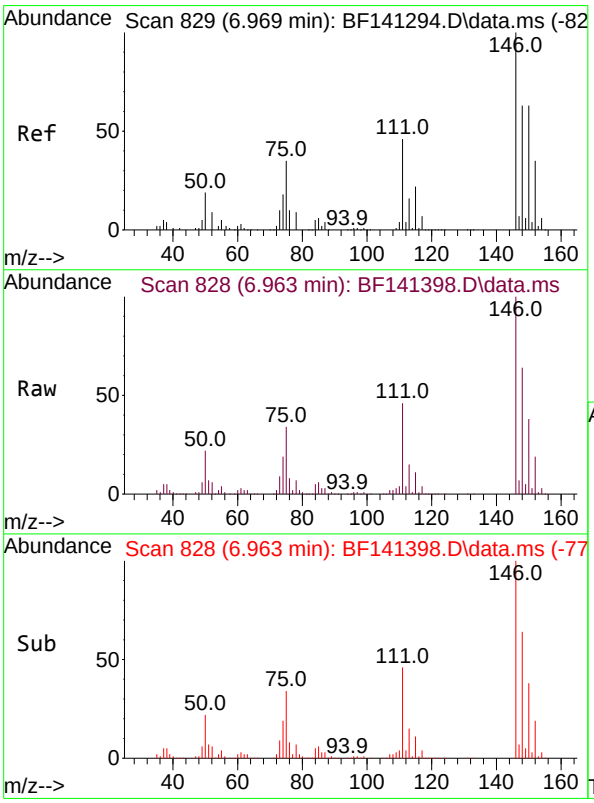
#13
1,4-Dichlorobenzene
Concen: 39.806 ng
RT: 6.810 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 269514

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
111	43.3	35.0	52.4

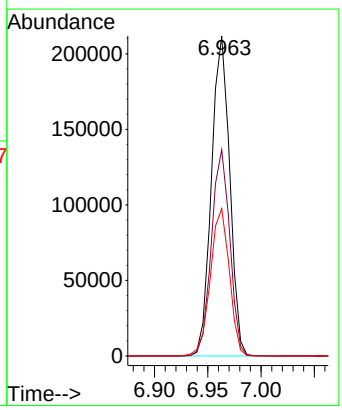


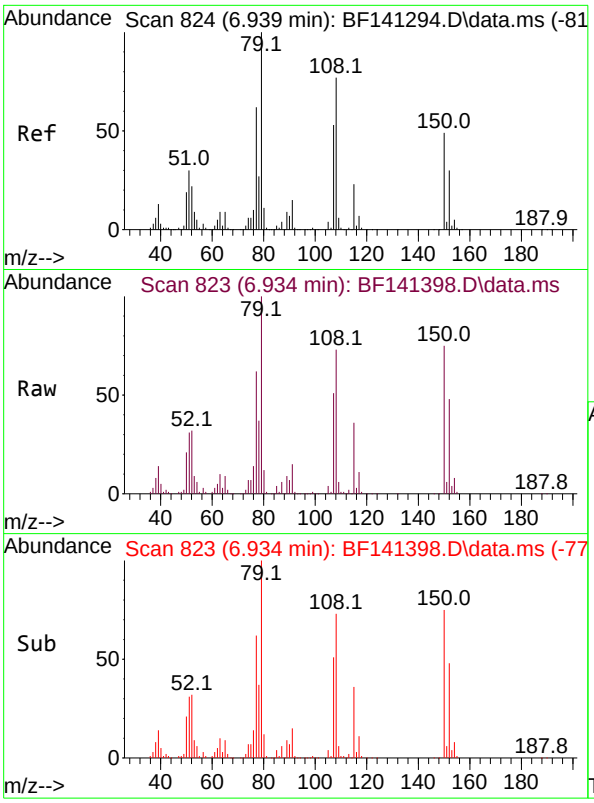


#14
1,2-Dichlorobenzene
Concen: 39.708 ng
RT: 6.963 min Scan# 828
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:146 Resp: 251753

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.5	75.7
111	46.1	36.6	55.0



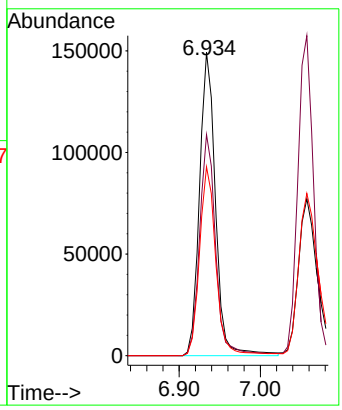


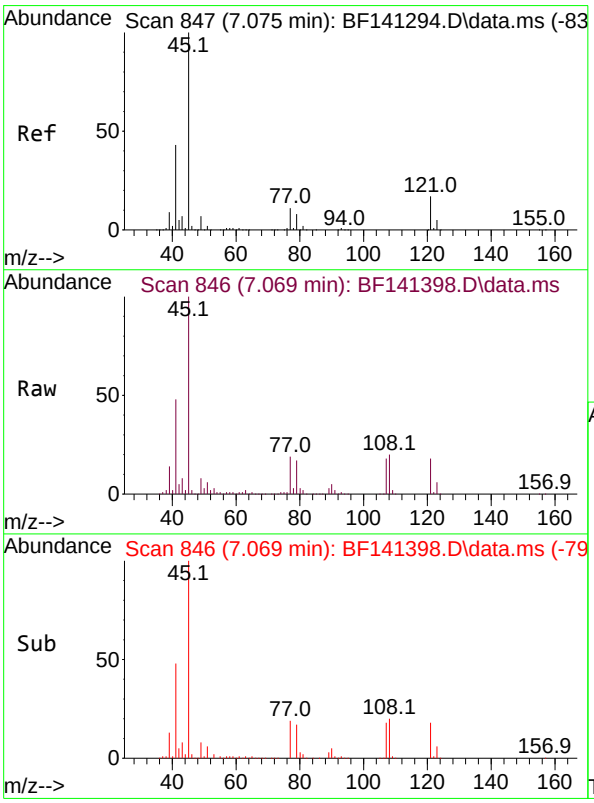
#15
Benzyl Alcohol
Concen: 41.142 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 203978

Ion	Ratio	Lower	Upper
79	100		
108	72.9	61.4	92.0
77	62.3	49.9	74.9

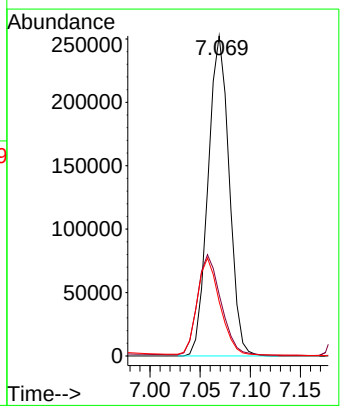


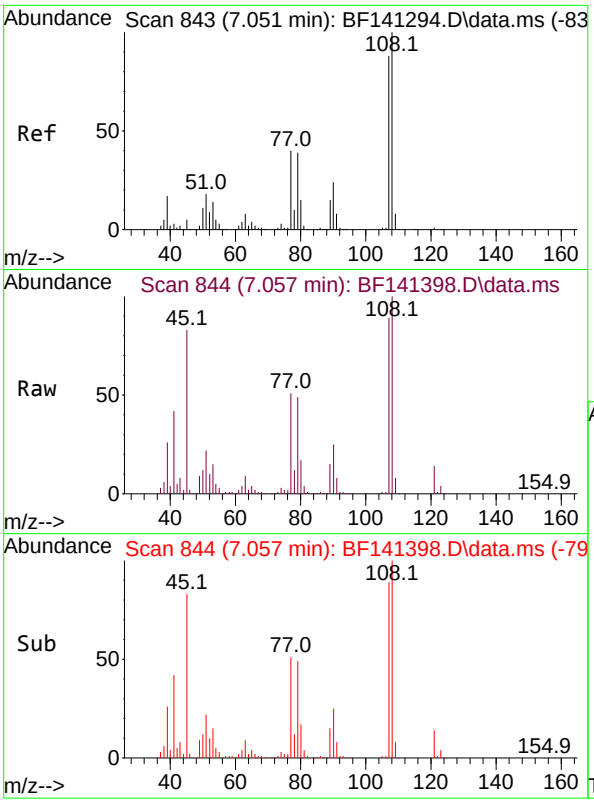


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.004 ng
RT: 7.069 min Scan# 846
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 45 Resp: 369176

Ion	Ratio	Lower	Upper
45	100		
77	19.2	0.0	31.8
79	17.0	0.0	29.1



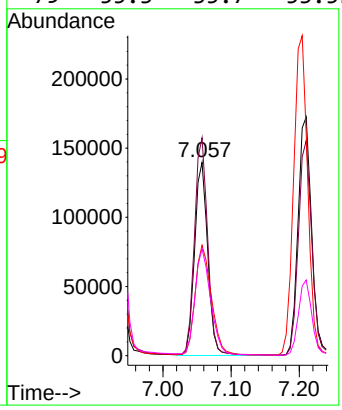


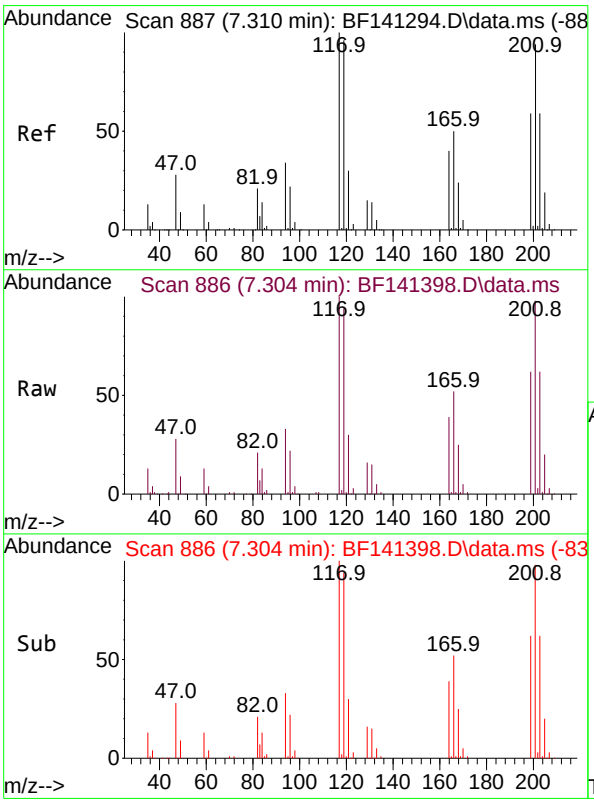
#17
2-Methylphenol
Concen: 37.854 ng
RT: 7.057 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 188055

Ion	Ratio	Lower	Upper
107	100		
108	112.7	90.8	136.2
77	57.1	36.2	54.4#
79	55.3	35.7	53.5#

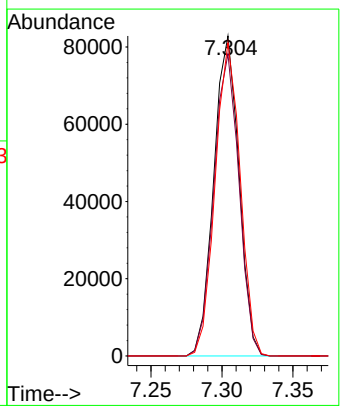


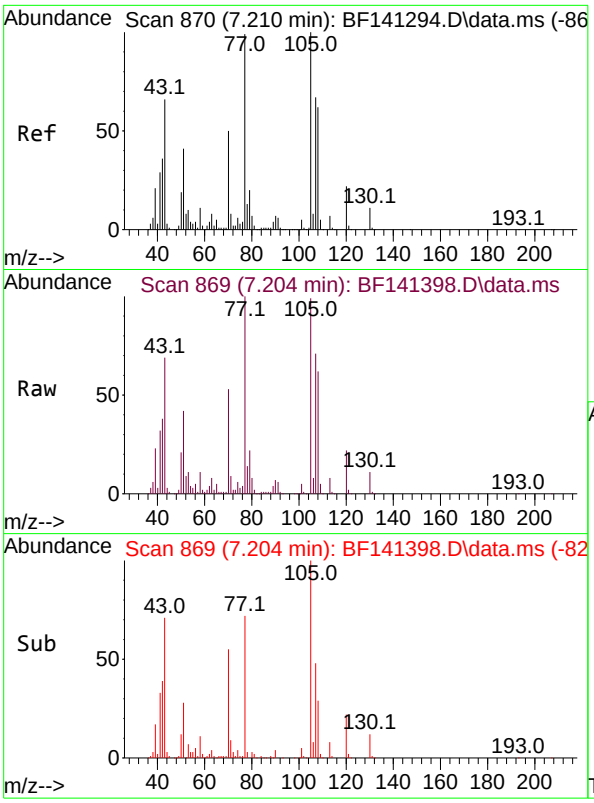


#18
Hexachloroethane
Concen: 40.842 ng
RT: 7.304 min Scan# 886
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:117 Resp: 102015

Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	114.8
201	97.9	74.8	112.2



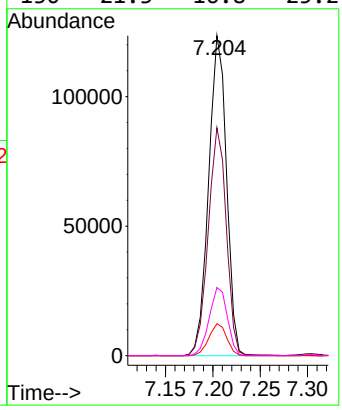


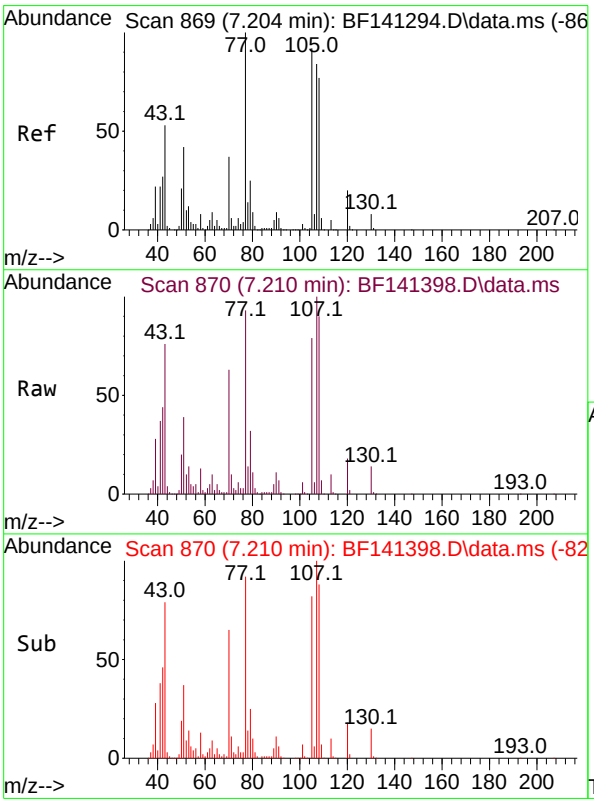
#19
n-Nitroso-di-n-propylamine
Concen: 37.733 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.024 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 162661

Ion	Ratio	Lower	Upper
70	100		
42	71.2	56.8	85.2
101	10.0	7.7	11.5
130	21.3	16.8	25.2

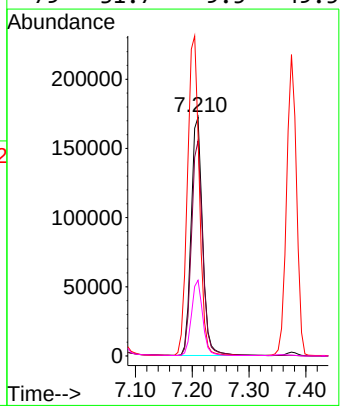


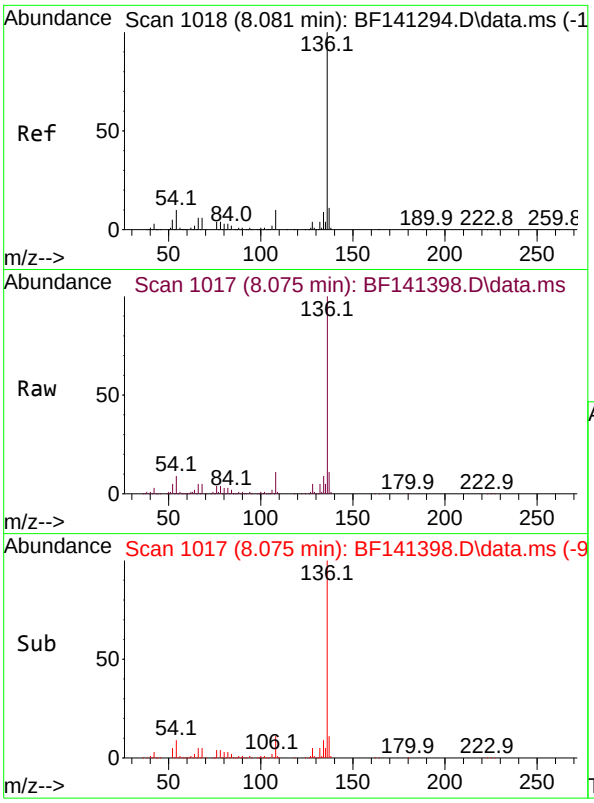


#20
3+4-Methylphenols
Concen: 39.483 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:107 Resp: 240839

Ion	Ratio	Lower	Upper
107	100		
108	90.0	70.9	110.9
77	93.0	98.5	138.5#
79	31.7	9.5	49.5



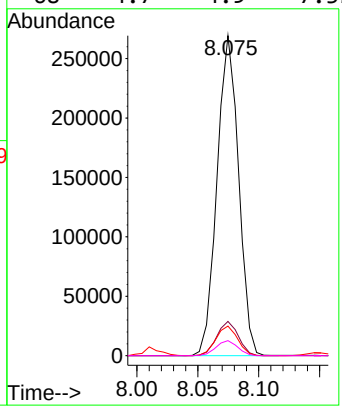


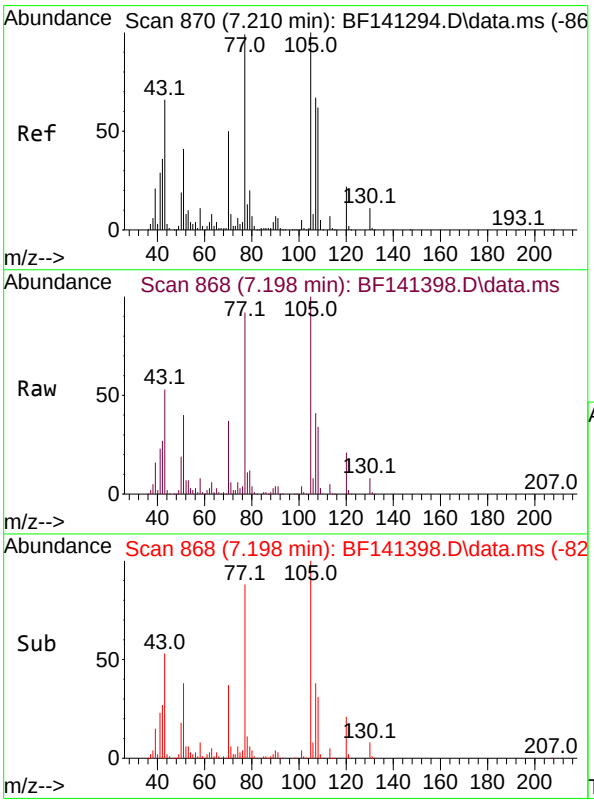
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 331835

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.2	7.8	11.8
68	4.7	4.9	7.3#

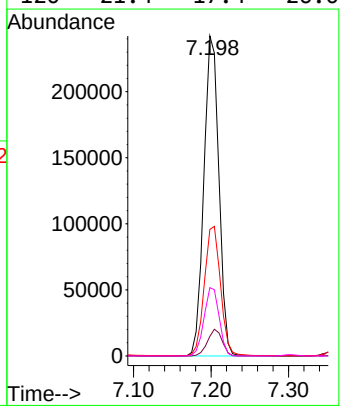


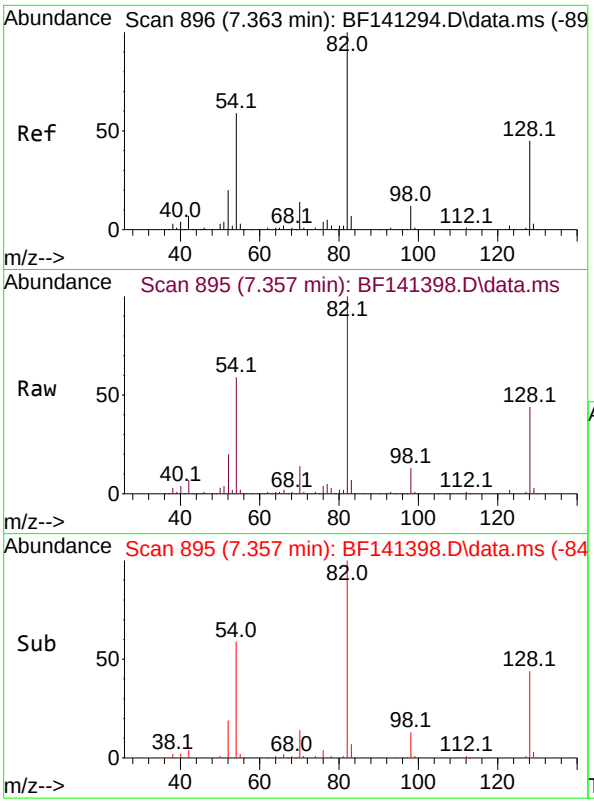


#22
Acetophenone
Concen: 41.351 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:105 Resp: 326166

Ion	Ratio	Lower	Upper
105	100		
71	6.2	6.8	10.2#
51	39.6	32.6	49.0
120	21.4	17.4	26.0



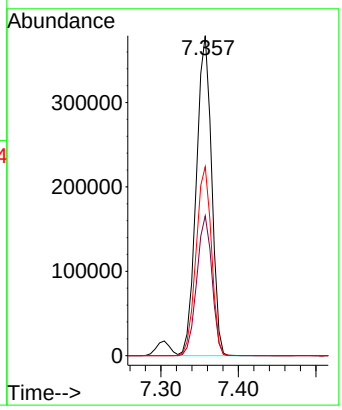


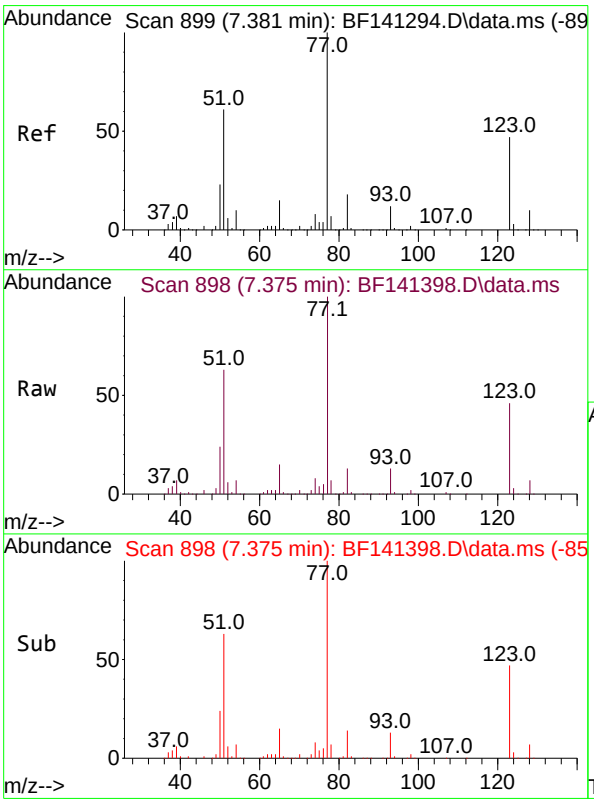
#23
Nitrobenzene-d5
Concen: 82.468 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 519110

Ion	Ratio	Lower	Upper
82	100		
128	43.7	35.7	53.5
54	59.0	47.1	70.7

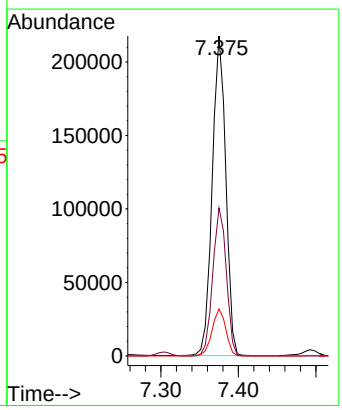


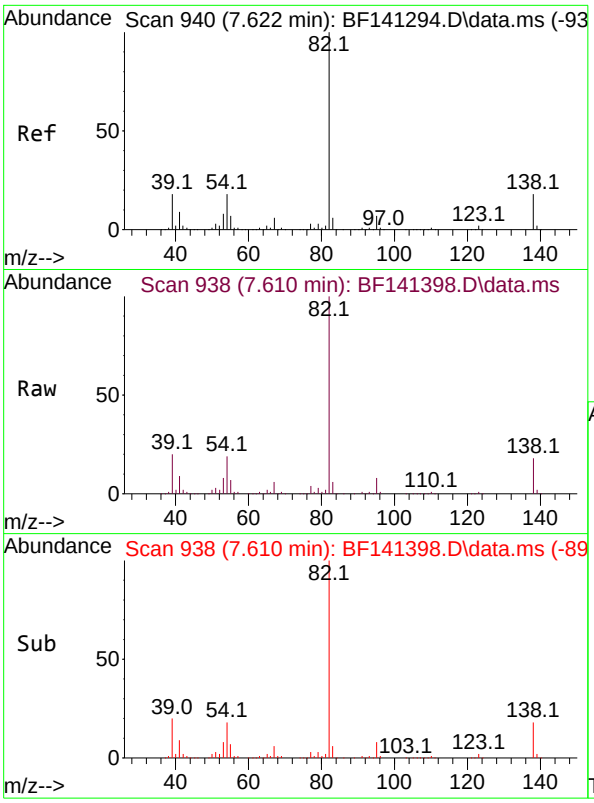


#24
Nitrobenzene
Concen: 40.497 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 77 Resp: 264172

Ion	Ratio	Lower	Upper
77	100		
123	46.3	37.3	55.9
65	14.7	11.8	17.6



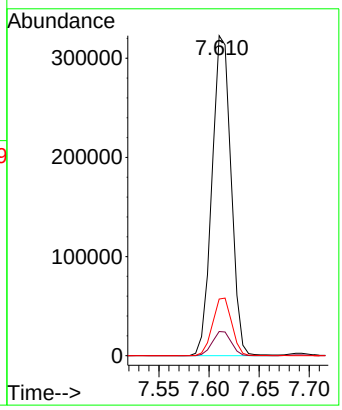


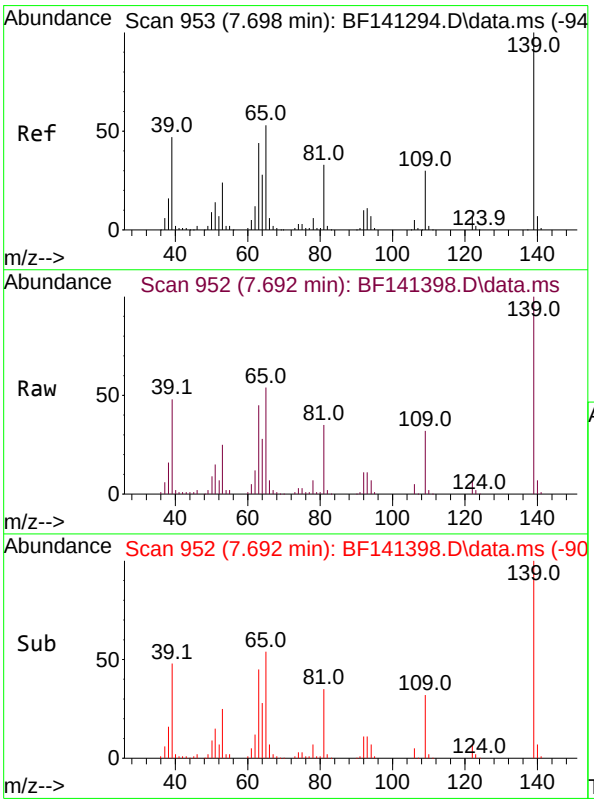
#25
Isophorone
Concen: 39.213 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 426672

Ion	Ratio	Lower	Upper
82	100		
95	7.5	5.8	8.6
138	17.7	14.7	22.1

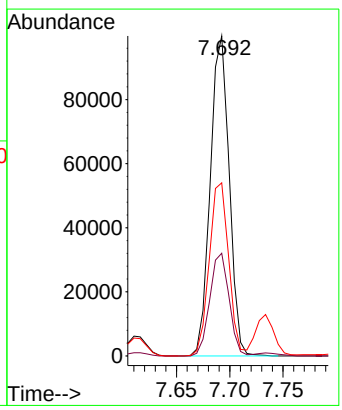


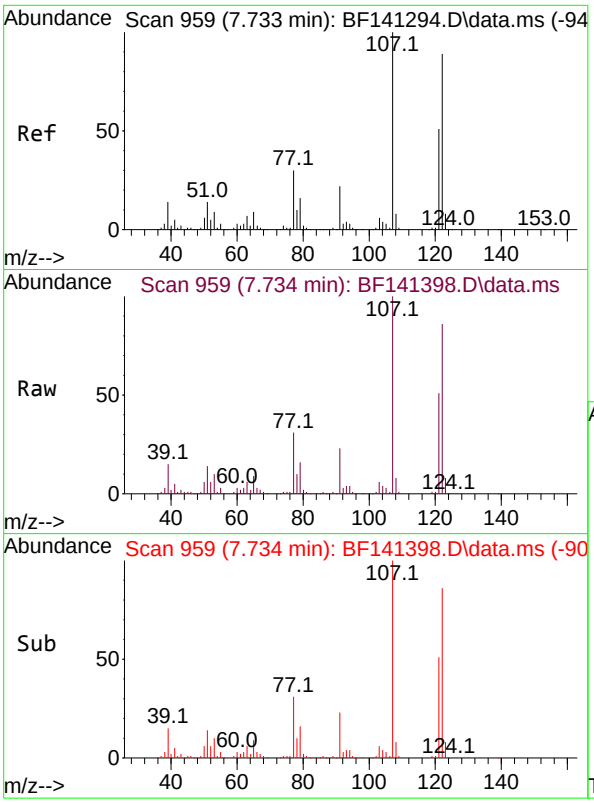


#26
2-Nitrophenol
Concen: 39.973 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:139 Resp: 122977

Ion	Ratio	Lower	Upper
139	100		
109	32.1	23.8	35.6
65	54.1	42.2	63.4



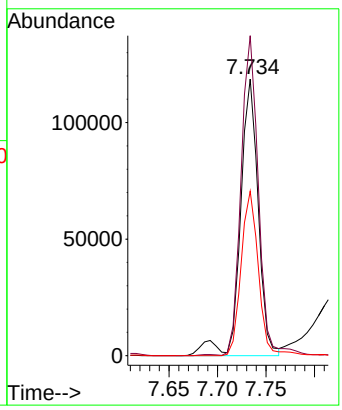


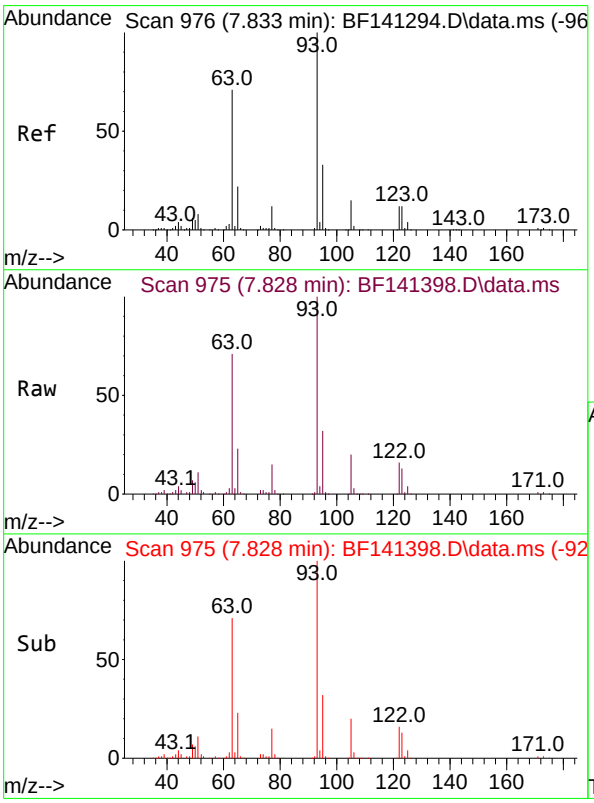
#27
2,4-Dimethylphenol
Concen: 38.904 ng m
RT: 7.734 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 152342

Ion	Ratio	Lower	Upper
122	100		
107	115.7	89.9	134.9
121	59.5	46.1	69.1

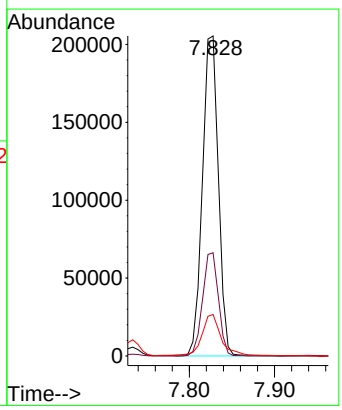


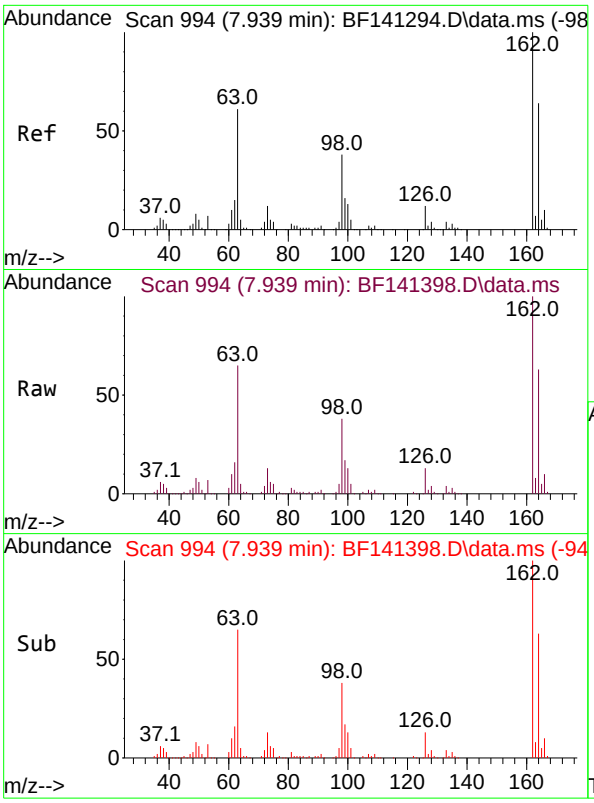


#28
bis(2-Chloroethoxy)methane
Concen: 38.495 ng
RT: 7.828 min Scan# 975
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 93 Resp: 267181

Ion	Ratio	Lower	Upper
93	100		
95	32.2	26.2	39.2
123	13.0	10.2	15.4



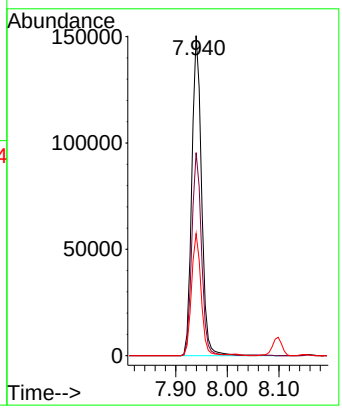


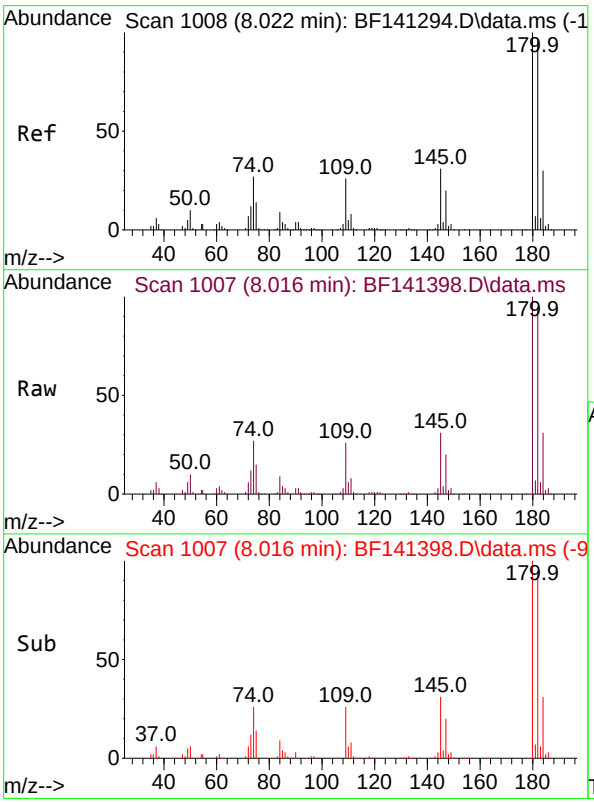
#29
2,4-Dichlorophenol
Concen: 41.025 ng
RT: 7.939 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 196668

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.2	84.2
98	38.2	18.2	58.2

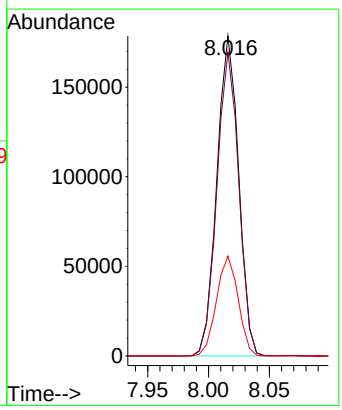


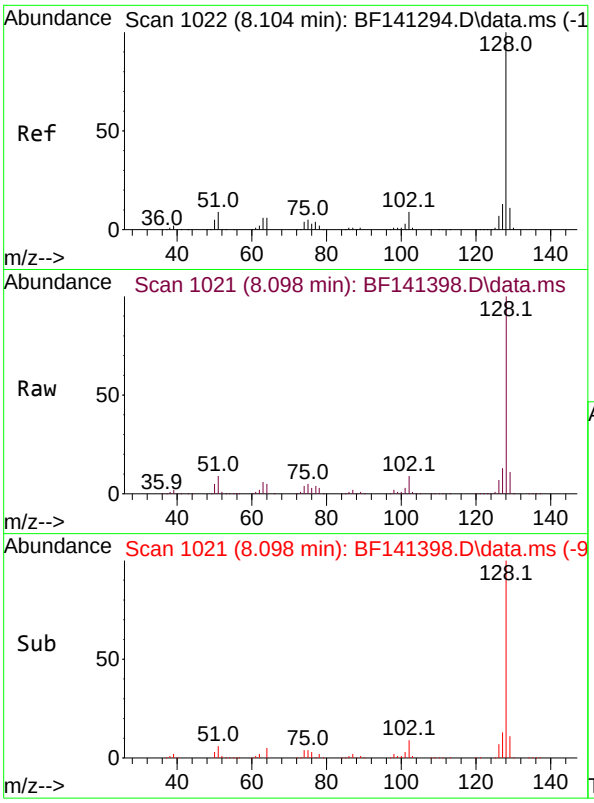


#30
1,2,4-Trichlorobenzene
Concen: 40.631 ng
RT: 8.016 min Scan# 1007
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:180 Resp: 222442

Ion	Ratio	Lower	Upper
180	100		
182	94.9	76.4	114.6
145	31.2	24.9	37.3



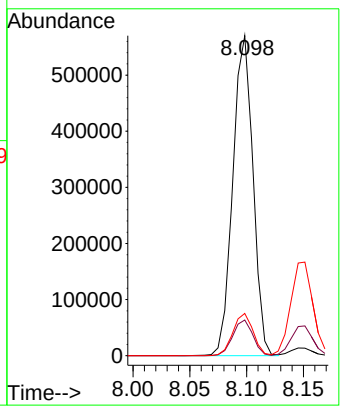


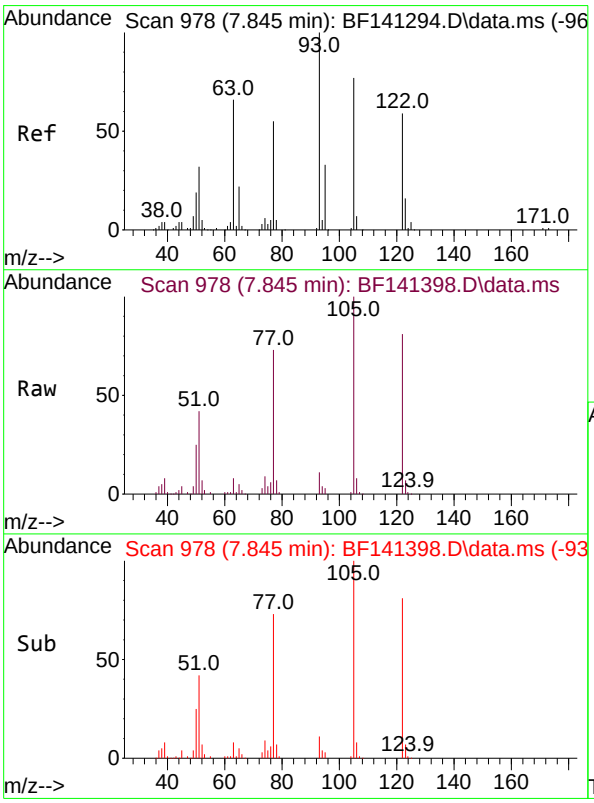
#31
Naphthalene
Concen: 40.155 ng
RT: 8.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 703917

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.2	10.6	15.8

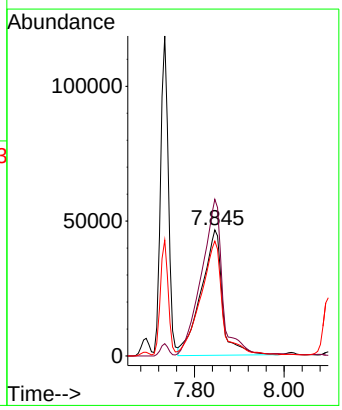


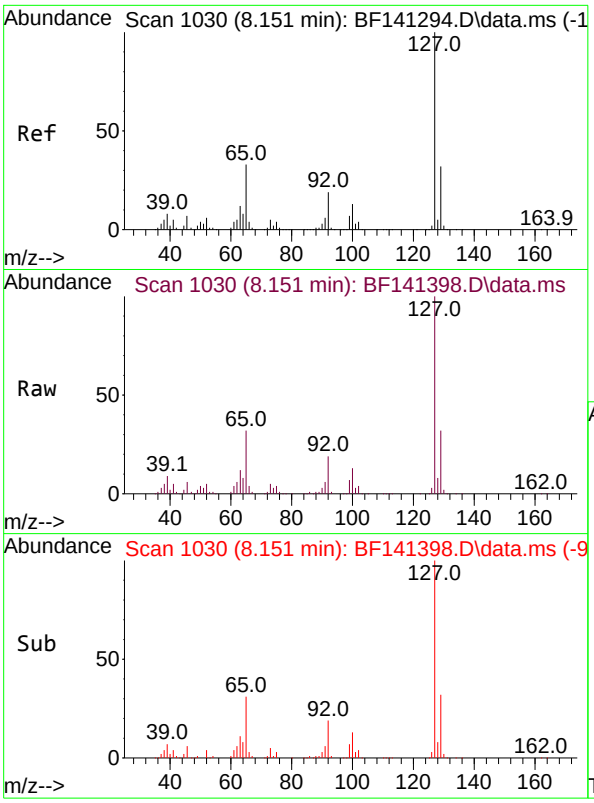


#32
Benzoic acid
Concen: 42.292 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.035 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:122 Resp: 152241

Ion	Ratio	Lower	Upper
122	100		
105	124.2	103.4	143.4
77	91.1	70.9	110.9



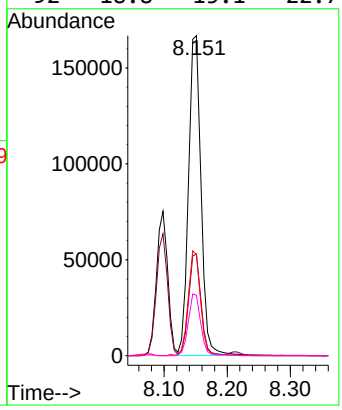


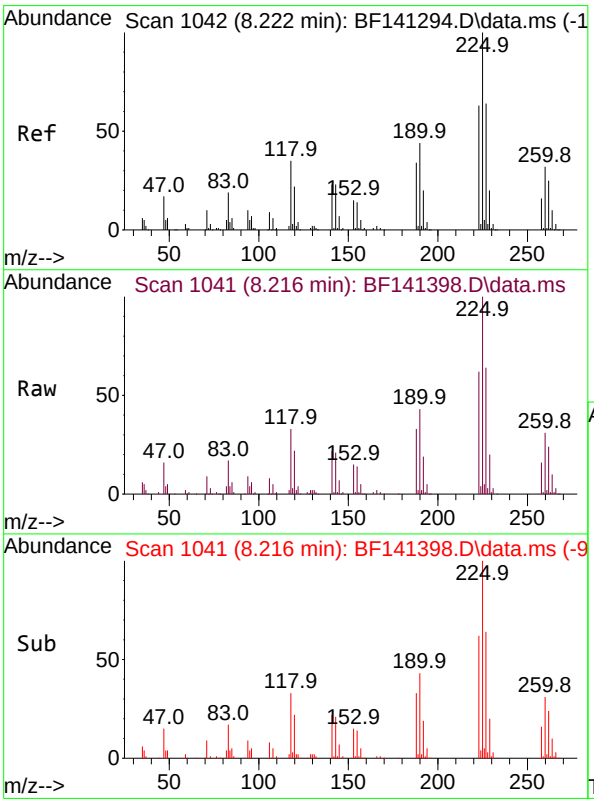
#33
4-Chloroaniline
Concen: 38.783 ng
RT: 8.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 230545

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.7	38.5
65	31.7	26.4	39.6
92	18.8	15.1	22.7

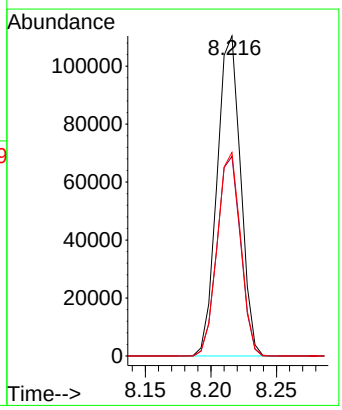


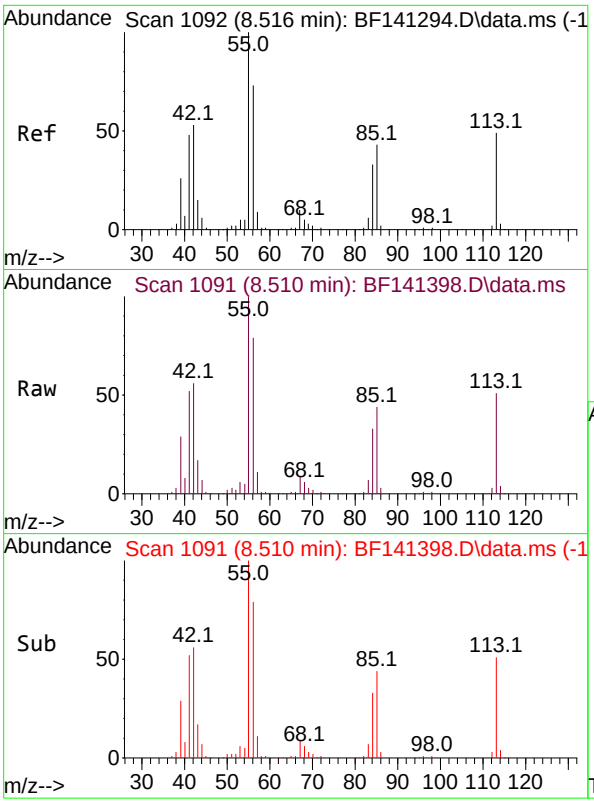


#34
Hexachlorobutadiene
Concen: 42.897 ng
RT: 8.216 min Scan# 1041
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:225 Resp: 137723

Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.4	75.6
227	63.6	51.3	76.9



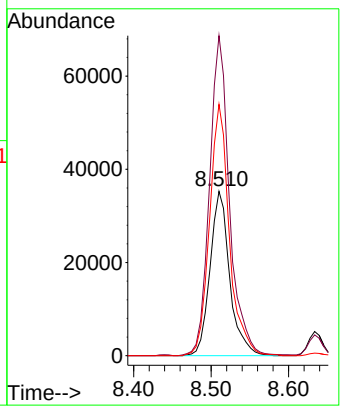


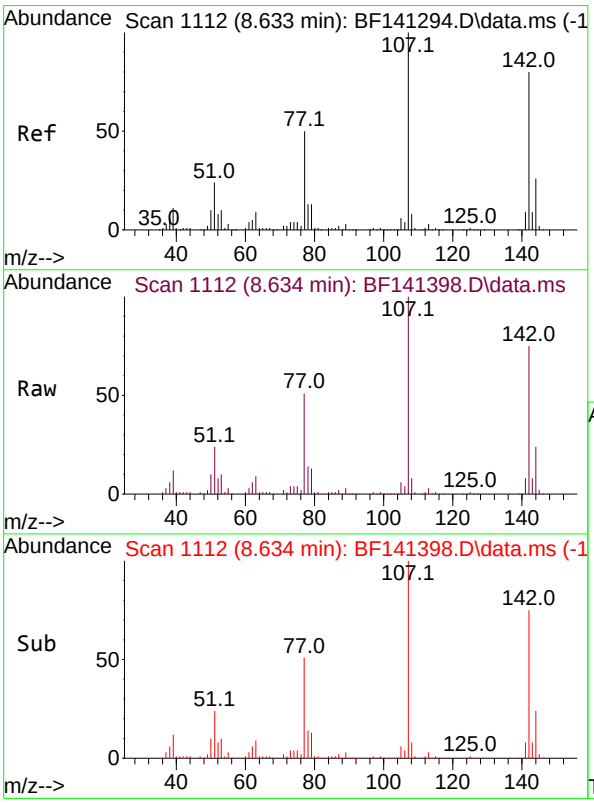
#35
Caprolactam
Concen: 39.634 ng
RT: 8.510 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 62051

Ion	Ratio	Lower	Upper
113	100		
55	194.6	182.9	222.9
56	152.9	127.9	167.9

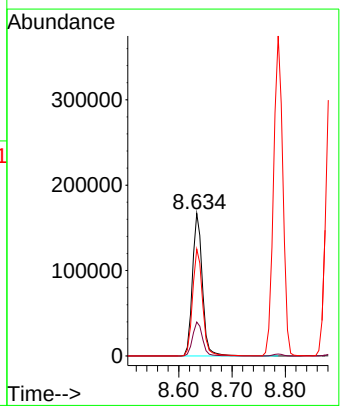


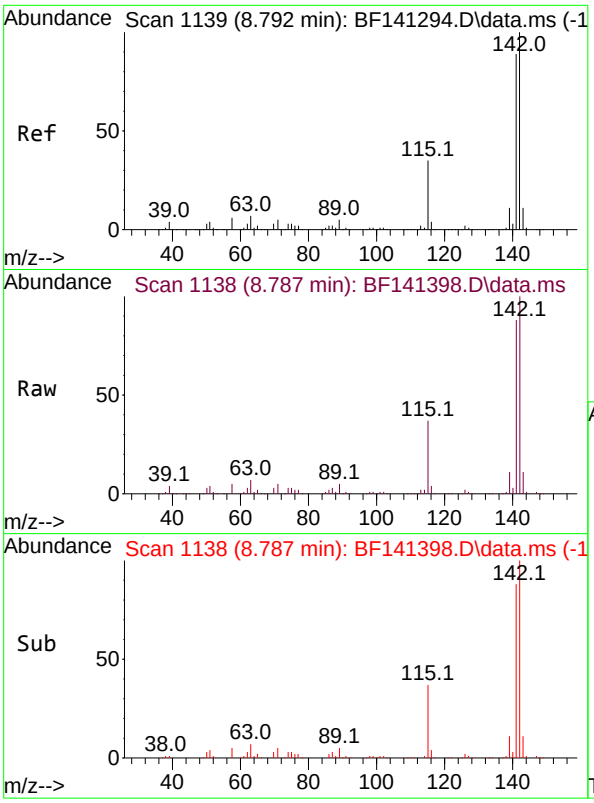


#36
4-Chloro-3-methylphenol
Concen: 42.000 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:107 Resp: 215967

Ion	Ratio	Lower	Upper
107	100		
144	23.9	20.7	31.1
142	75.0	63.8	95.8



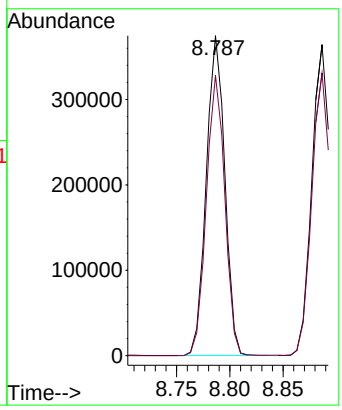


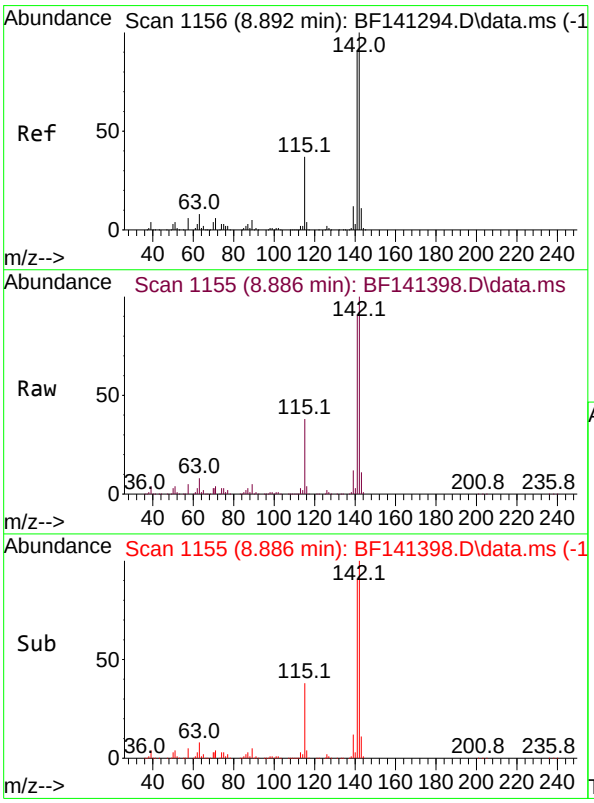
#37
2-Methylnaphthalene
Concen: 40.722 ng
RT: 8.787 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 453714

Ion	Ratio	Lower	Upper
142	100		
141	87.6	71.3	106.9

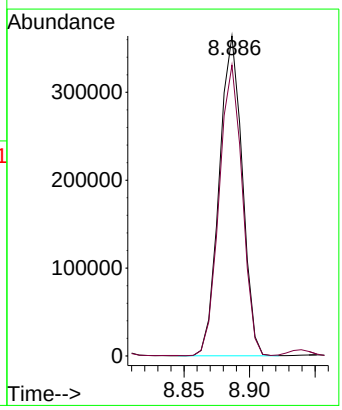


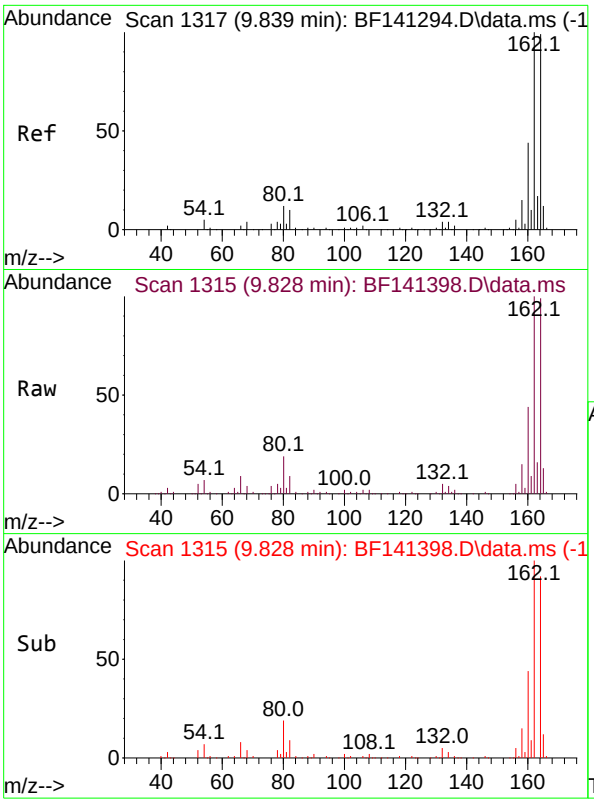


#38
1-Methylnaphthalene
Concen: 40.487 ng
RT: 8.886 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:142 Resp: 443121

Ion	Ratio	Lower	Upper
142	100		
141	90.9	73.2	109.8



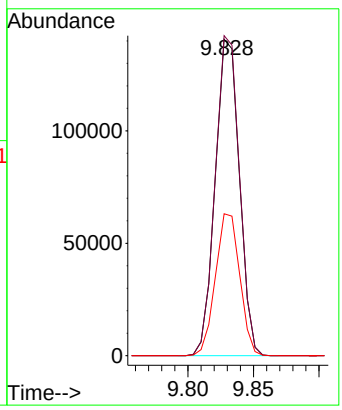


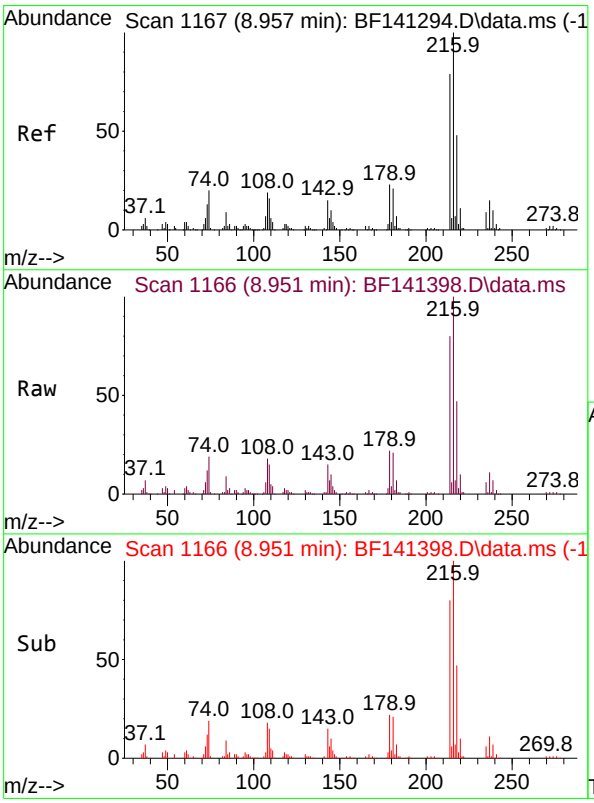
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 180473

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	121.0
160	44.8	35.8	53.6

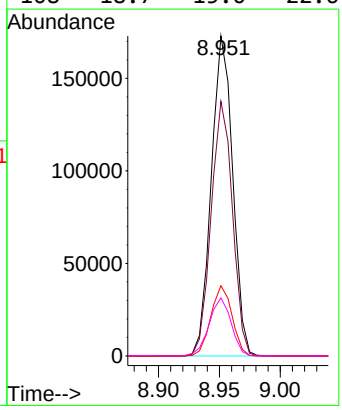


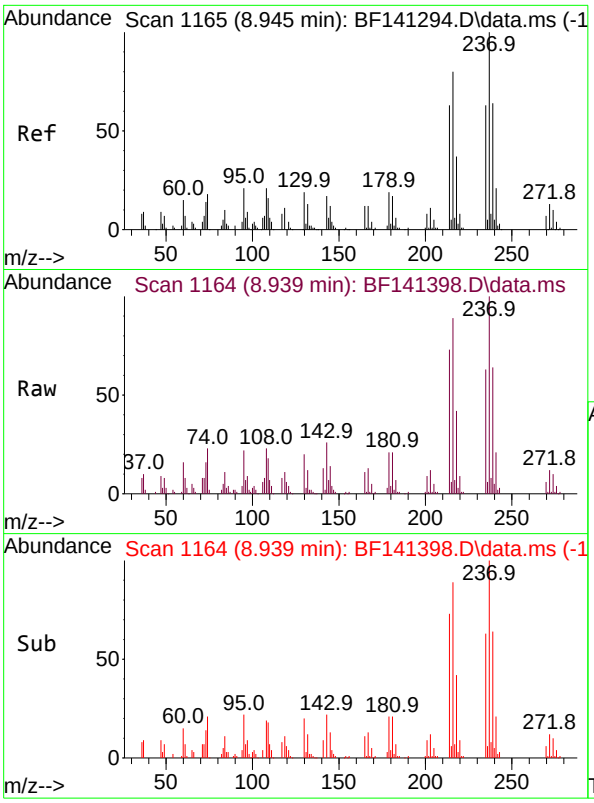


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.257 ng
RT: 8.951 min Scan# 1166
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:216 Resp: 211825

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.2	94.8
179	21.7	17.8	26.8
108	18.7	15.0	22.6



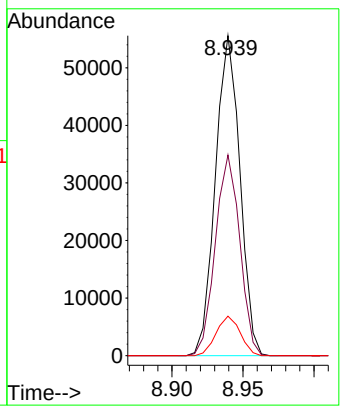


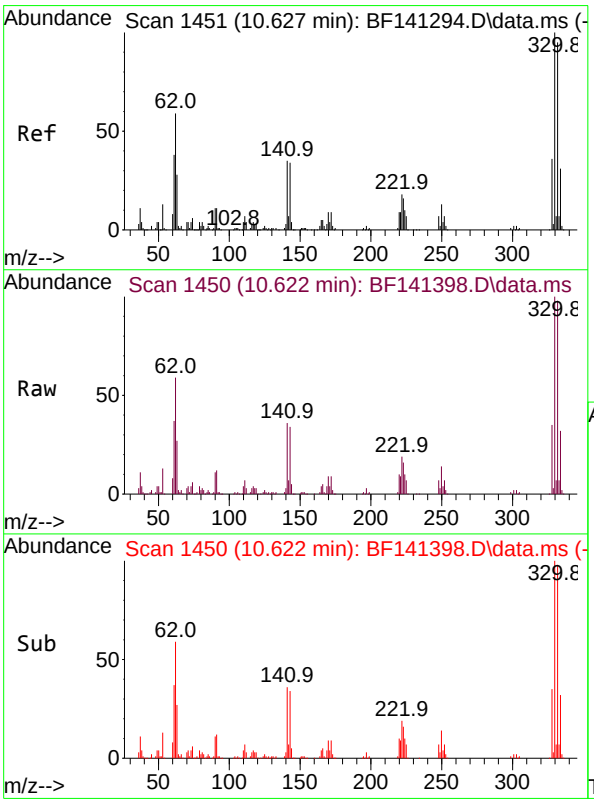
#41
Hexachlorocyclopentadiene
Concen: 43.974 ng
RT: 8.939 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 66678

Ion	Ratio	Lower	Upper
237	100		
235	62.7	42.9	82.9
272	12.4	0.0	32.8

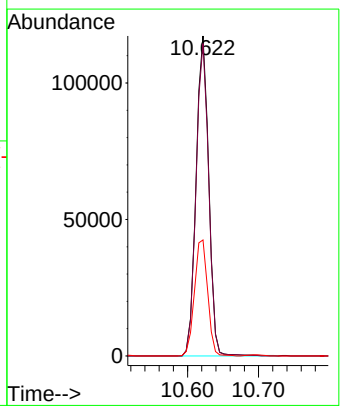


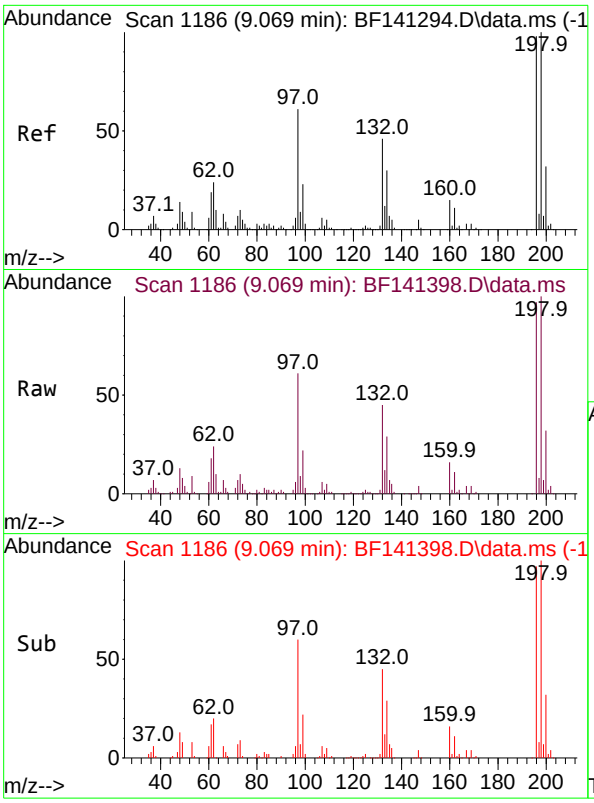


#42
2,4,6-Tribromophenol
Concen: 88.147 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:330 Resp: 145841

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.1	114.1
141	37.8	28.8	43.2



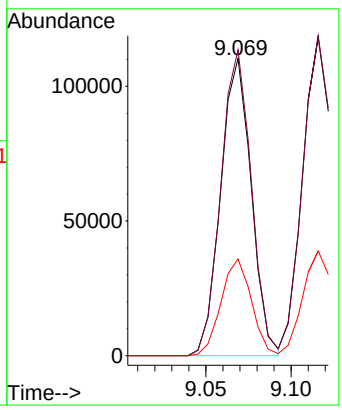


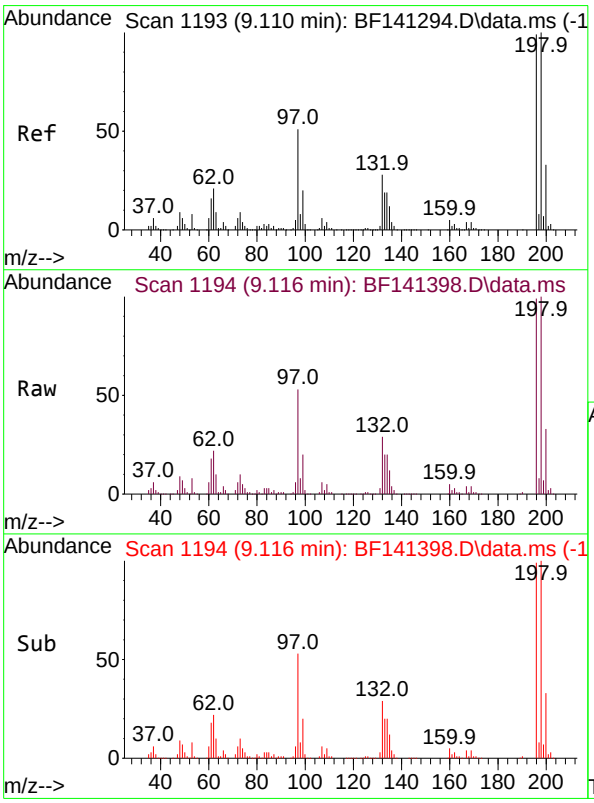
#43
2,4,6-Trichlorophenol
Concen: 41.007 ng
RT: 9.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 137805

Ion	Ratio	Lower	Upper
196	100		
198	102.9	81.8	122.6
200	32.5	26.3	39.5

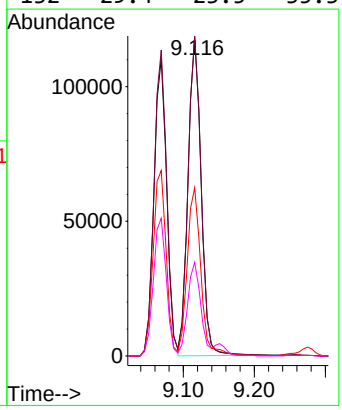


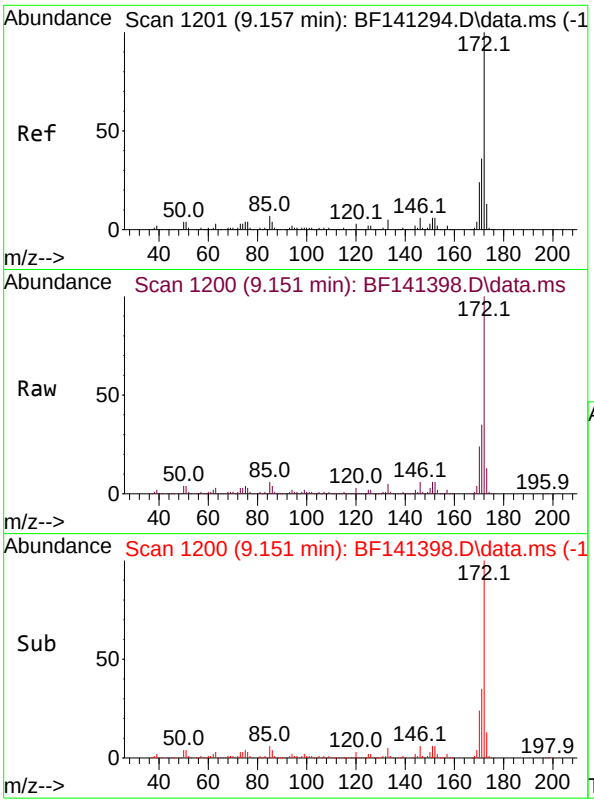


#44
2,4,5-Trichlorophenol
Concen: 41.577 ng
RT: 9.116 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:196 Resp: 152071

Ion	Ratio	Lower	Upper
196	100		
198	100.5	80.5	120.7
97	52.8	42.8	64.2
132	29.4	23.5	35.3



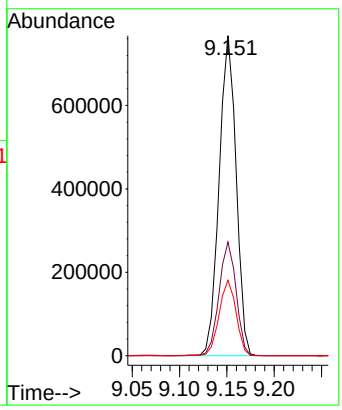


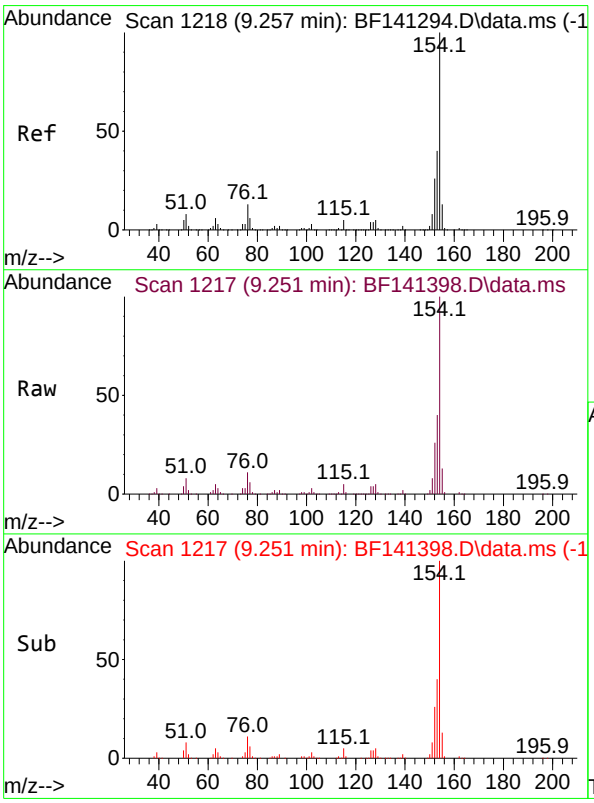
#45
2-Fluorobiphenyl
Concen: 81.771 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 958786

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.5	19.0	28.6

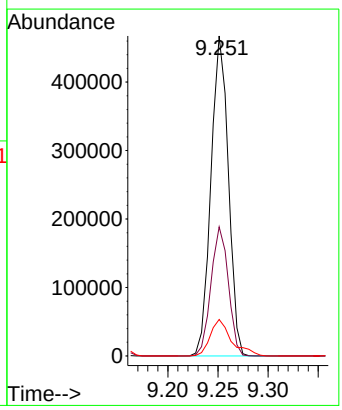


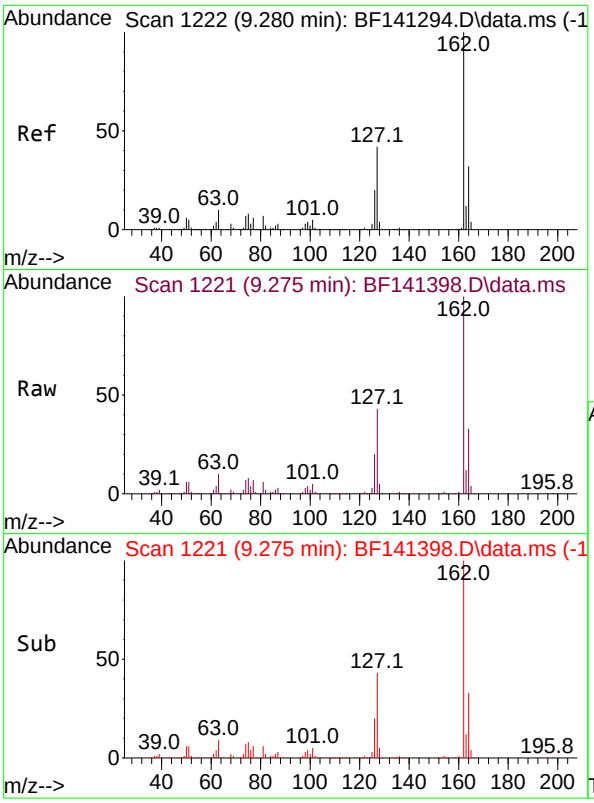


#46
1,1'-Biphenyl
Concen: 40.089 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:154 Resp: 564241

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	11.4	0.0	32.8



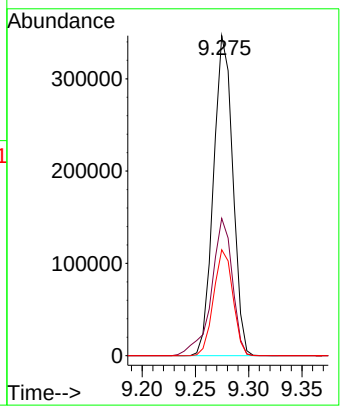


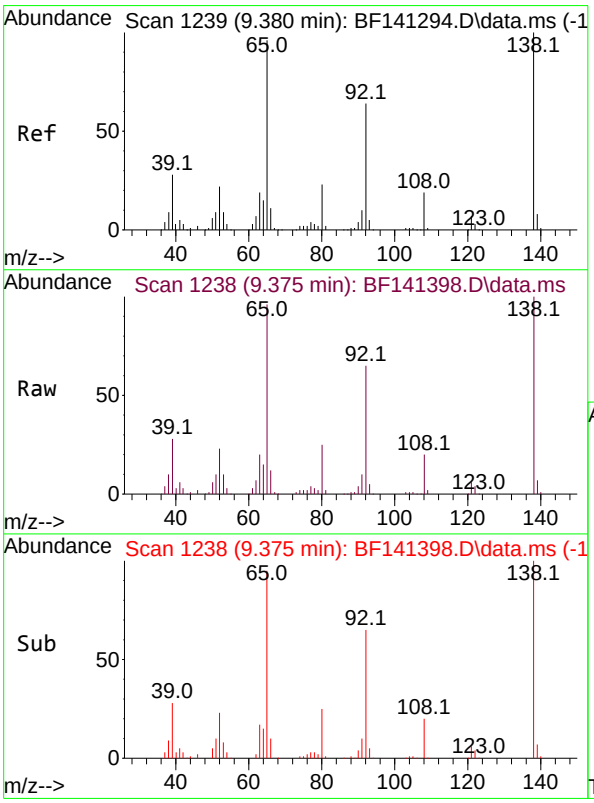
#47
2-Chloronaphthalene
Concen: 39.785 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 436455

Ion	Ratio	Lower	Upper
162	100		
127	42.9	33.7	50.5
164	33.1	25.9	38.9

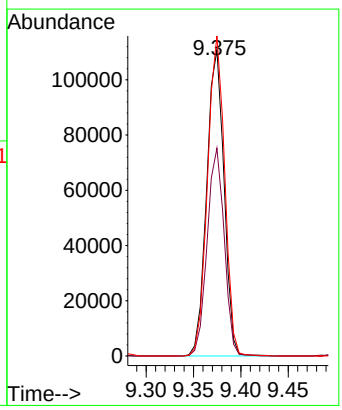


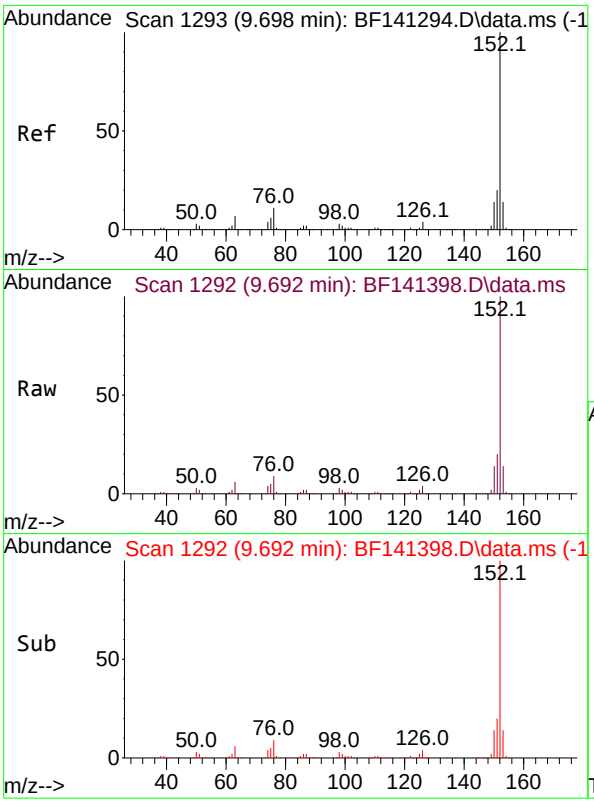


#48
2-Nitroaniline
Concen: 40.764 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion: 65 Resp: 140664

Ion	Ratio	Lower	Upper
65	100		
92	67.8	53.3	79.9
138	104.5	83.6	125.4



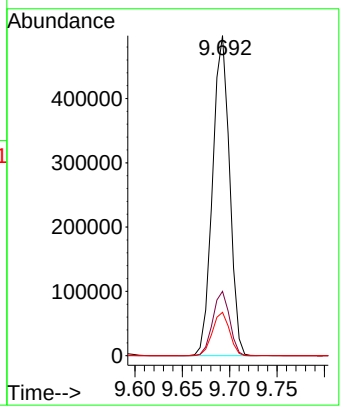


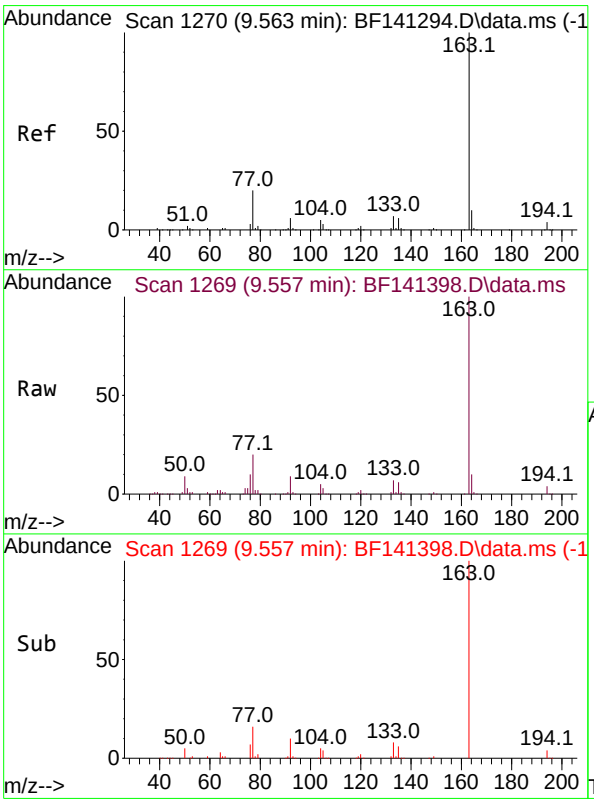
#49
Acenaphthylene
Concen: 40.360 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 619791

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.6	11.0	16.6

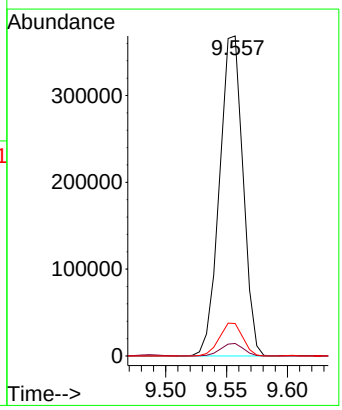


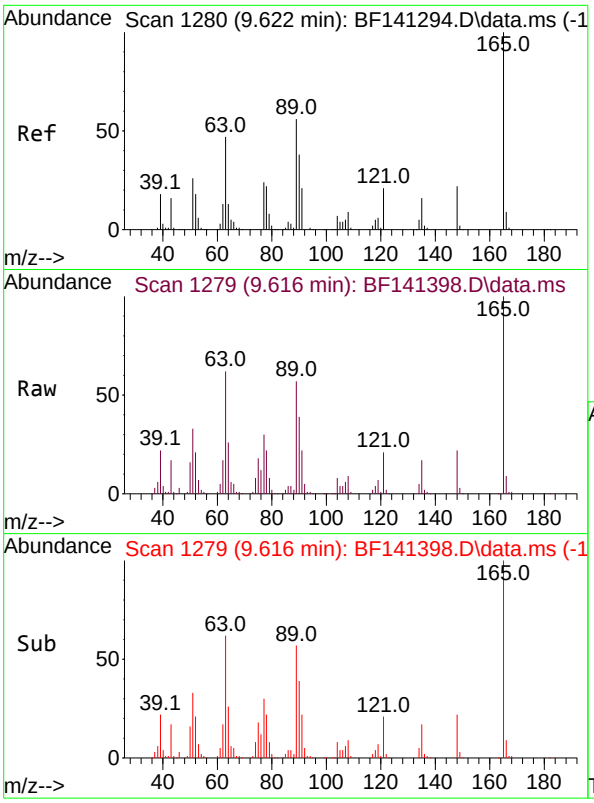


#50
Dimethylphthalate
Concen: 40.604 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:163 Resp: 494930

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.2	8.0	12.0



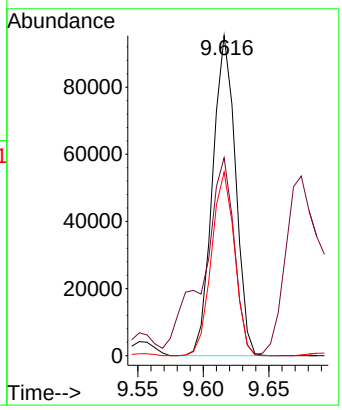


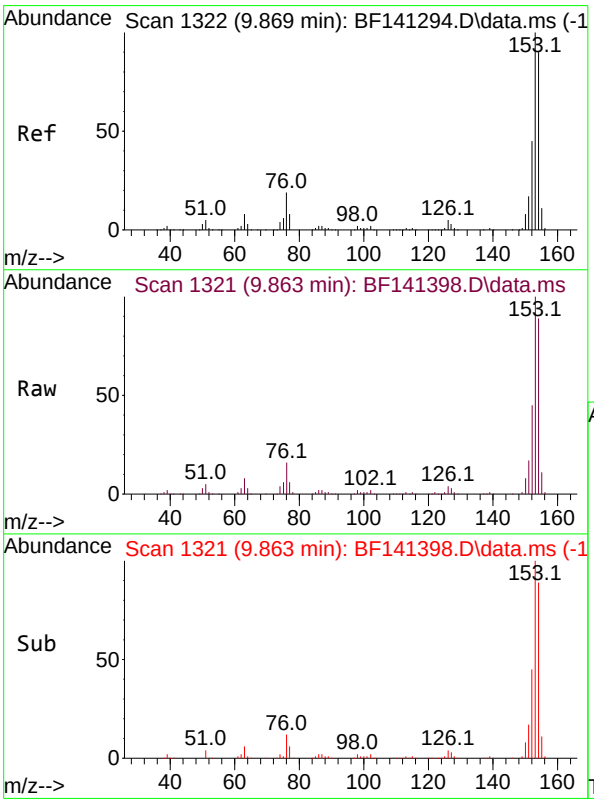
#51
2,6-Dinitrotoluene
Concen: 40.929 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 115835

Ion	Ratio	Lower	Upper
165	100		
63	61.9	48.1	72.1
89	57.4	44.9	67.3

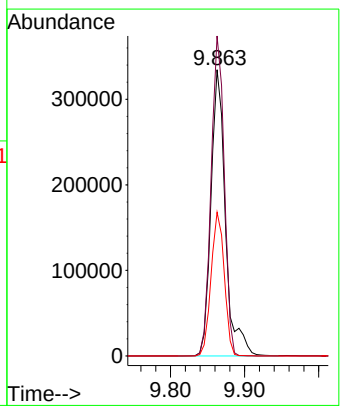


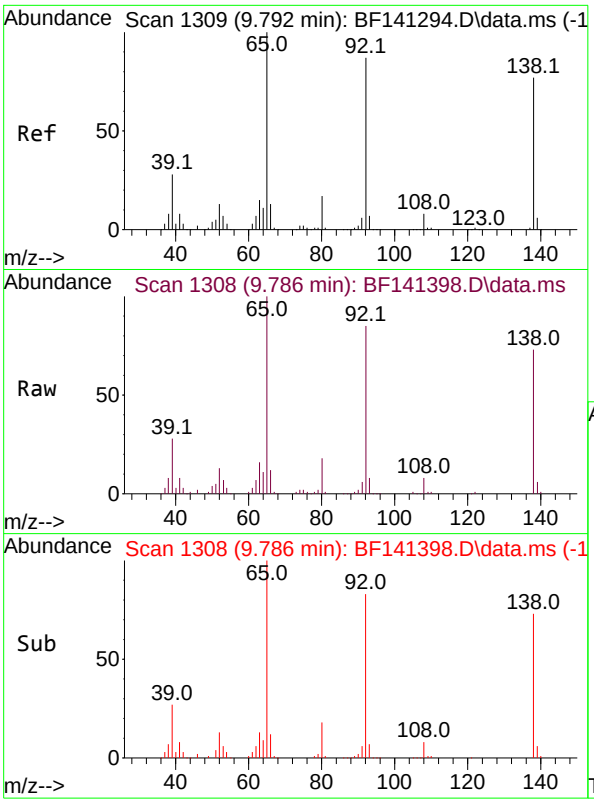


#52
Acenaphthene
Concen: 41.328 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:154 Resp: 453408

Ion	Ratio	Lower	Upper
154	100		
153	111.8	89.0	133.4
152	50.2	40.2	60.4



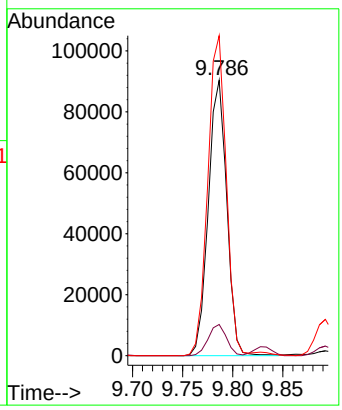


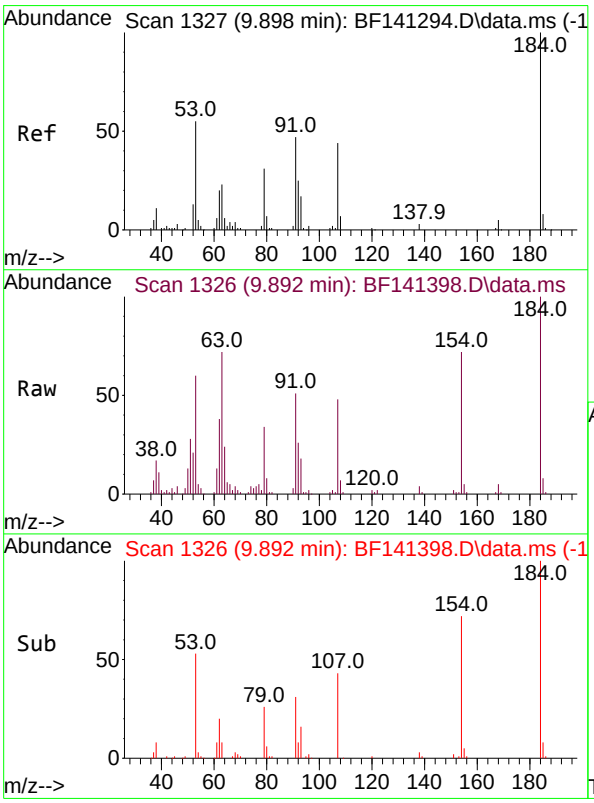
#53
3-Nitroaniline
Concen: 41.746 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 115797

Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.6	12.8
92	116.2	91.0	136.6

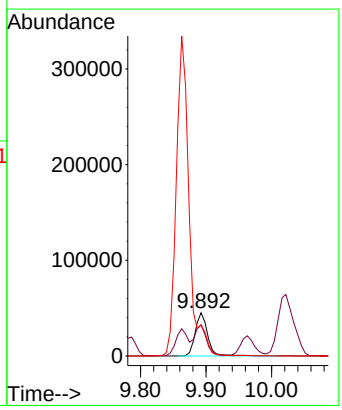


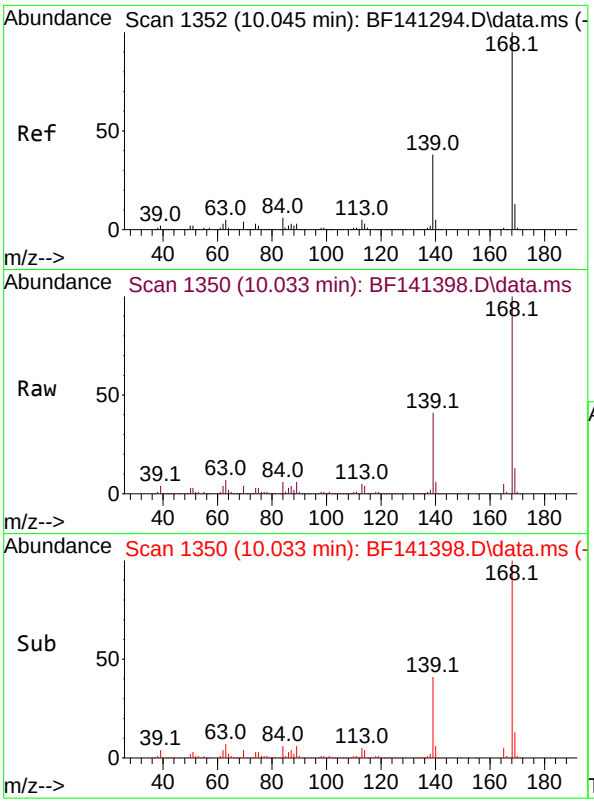


#54
2,4-Dinitrophenol
Concen: 45.240 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:184 Resp: 59519

Ion	Ratio	Lower	Upper
184	100		
63	72.2	54.1	81.1
154	71.9	50.7	76.1



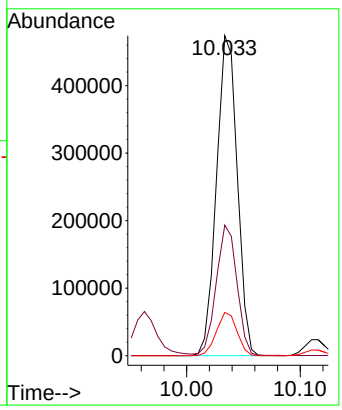


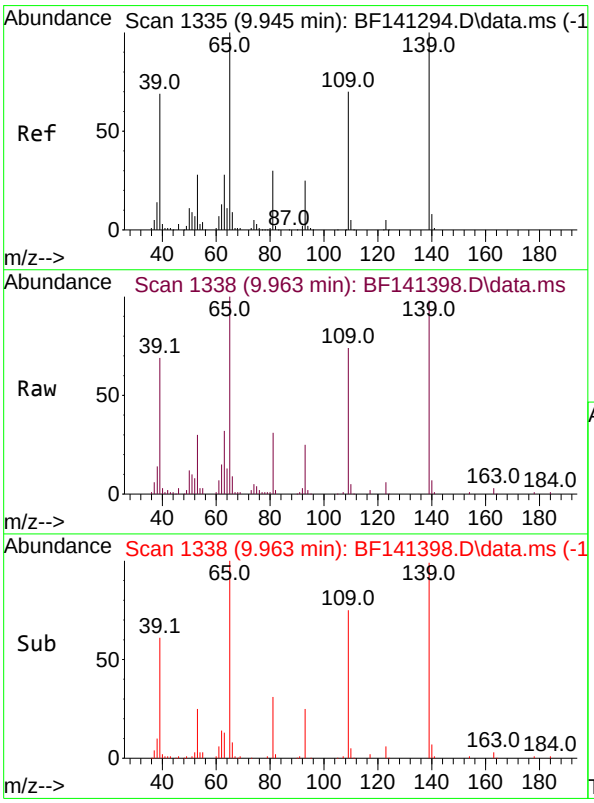
#55
Dibenzofuran
Concen: 41.022 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 602409

Ion	Ratio	Lower	Upper
168	100		
139	40.8	30.6	46.0
169	13.5	10.8	16.2

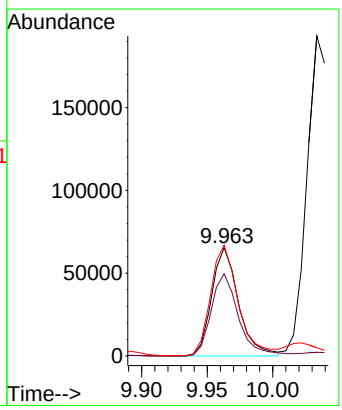


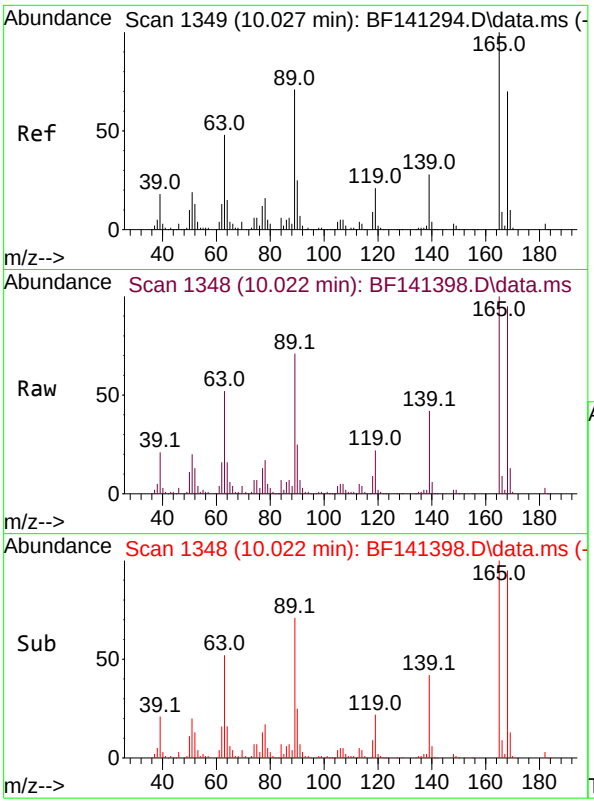


#56
4-Nitrophenol
Concen: 45.798 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:139 Resp: 92908

Ion	Ratio	Lower	Upper
139	100		
109	76.0	50.2	90.2
65	102.3	80.6	120.6



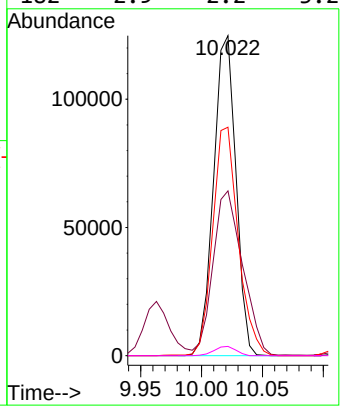


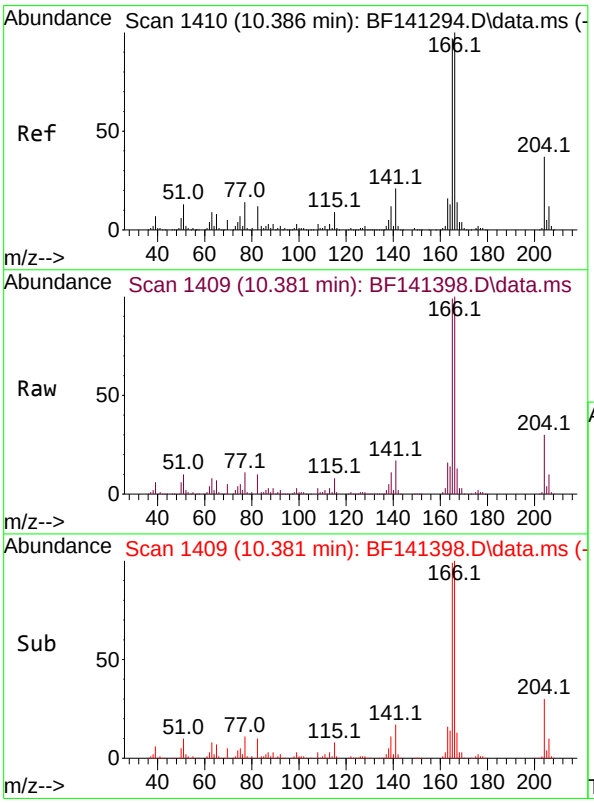
#57
2,4-Dinitrotoluene
Concen: 43.471 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 159291

Ion	Ratio	Lower	Upper
165	100		
63	51.5	39.2	58.8
89	71.4	56.9	85.3
182	2.9	2.2	3.2

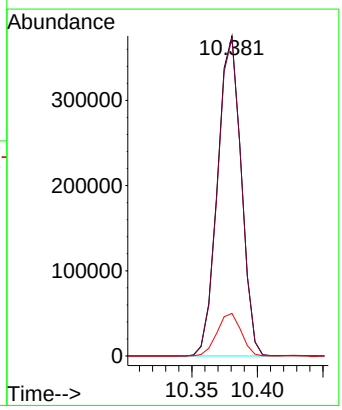


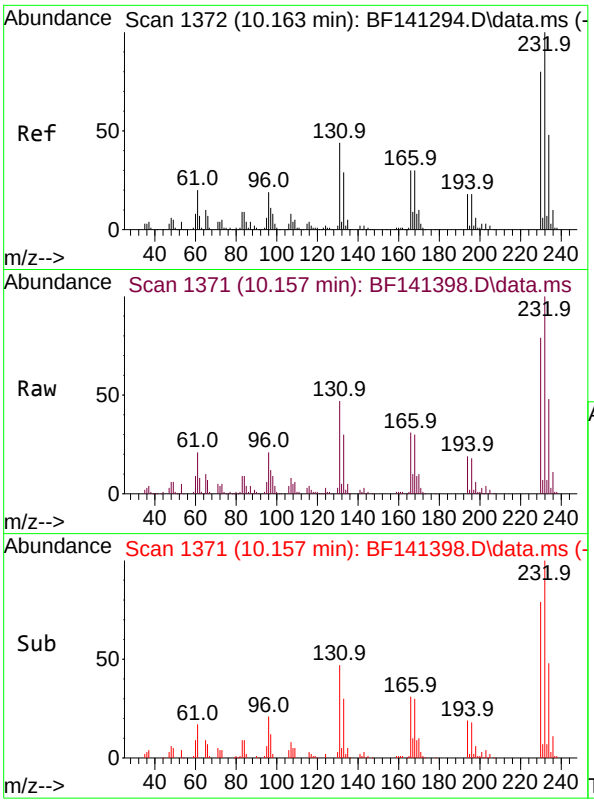


#58
Fluorene
Concen: 41.395 ng
RT: 10.381 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:166 Resp: 471526

Ion	Ratio	Lower	Upper
166	100		
165	99.3	77.5	116.3
167	13.3	10.9	16.3



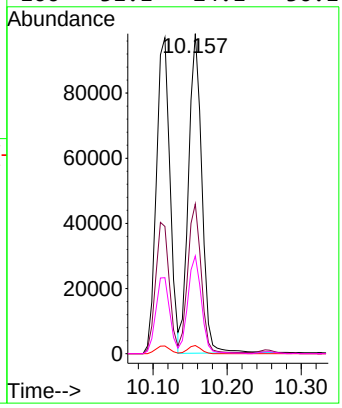


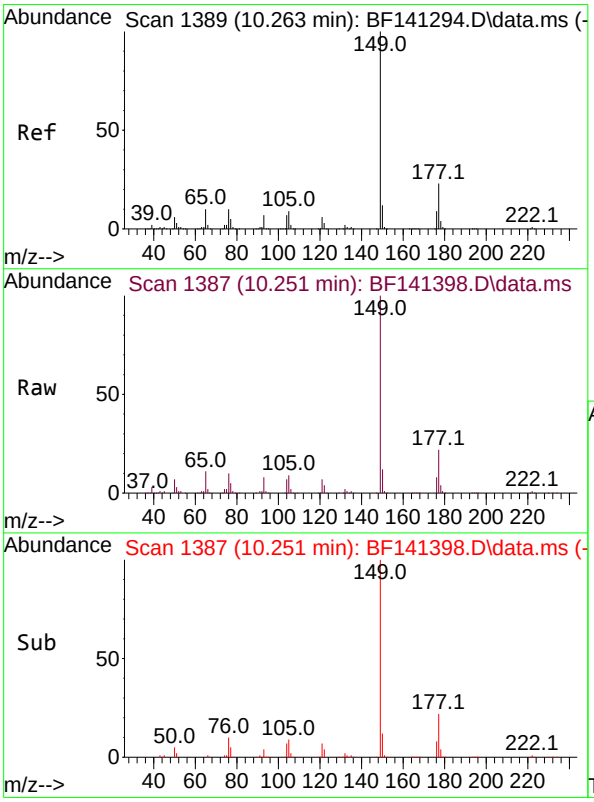
#59
2,3,4,6-Tetrachlorophenol
Concen: 42.803 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 123166

Ion	Ratio	Lower	Upper
232	100		
131	47.4	36.4	54.6
130	2.5	1.9	2.9
166	31.1	24.1	36.1

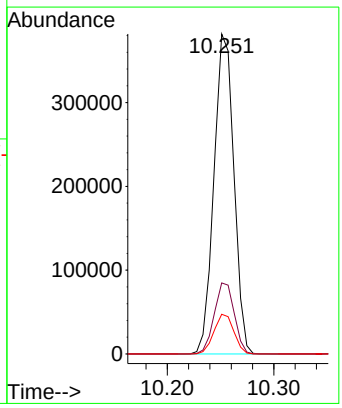


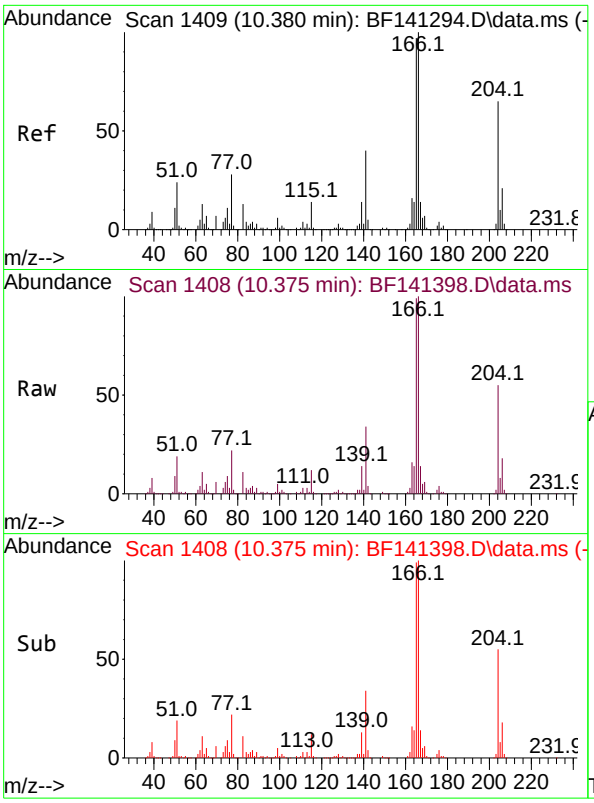


#60
Diethylphthalate
Concen: 41.956 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:149 Resp: 495870

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.5	27.7
150	12.4	10.0	15.0



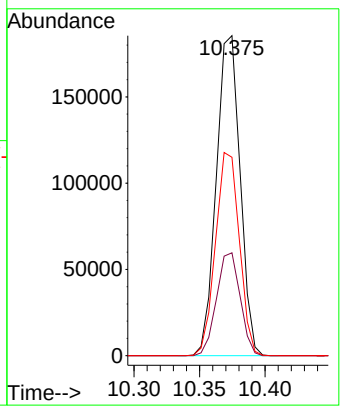


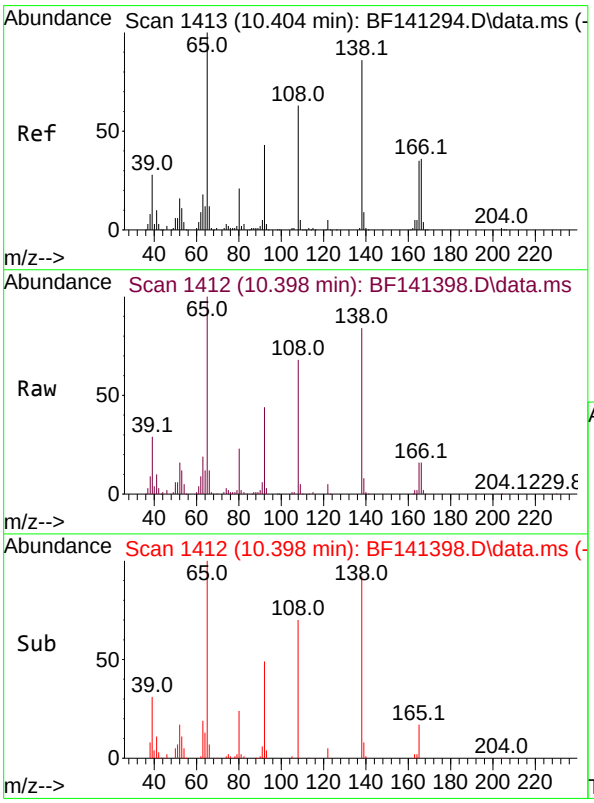
#61
4-Chlorophenyl-phenylether
Concen: 42.037 ng
RT: 10.375 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 233902

Ion	Ratio	Lower	Upper
204	100		
206	32.2	25.9	38.9
141	62.0	49.5	74.3

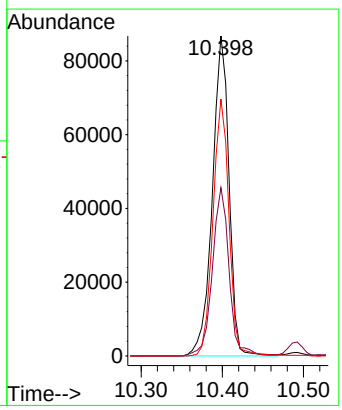


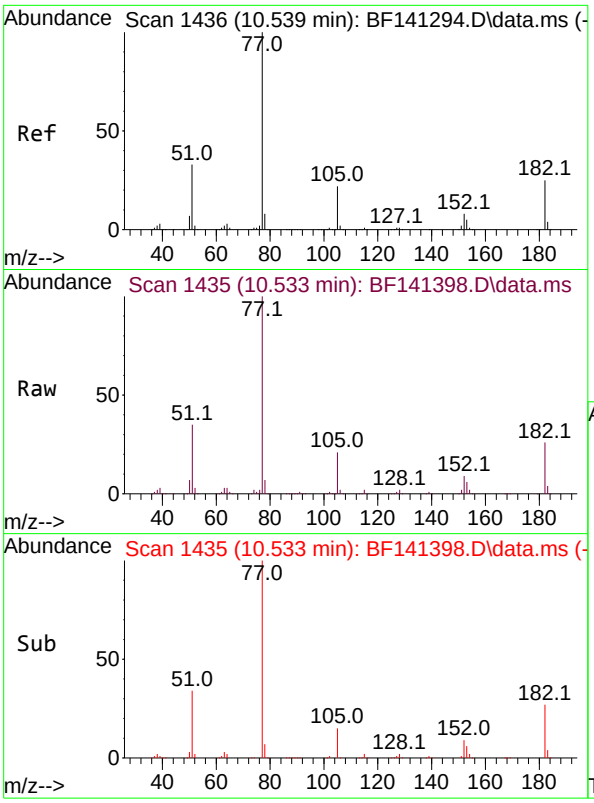


#62
4-Nitroaniline
Concen: 45.468 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:138 Resp: 123996

Ion	Ratio	Lower	Upper
138	100		
92	52.6	30.1	70.1
108	80.3	53.1	93.1



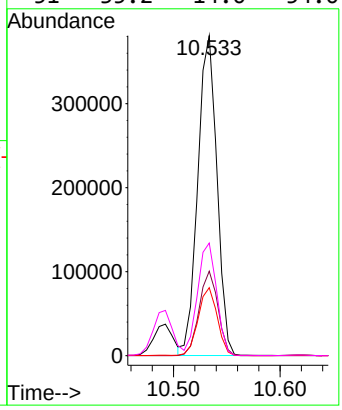


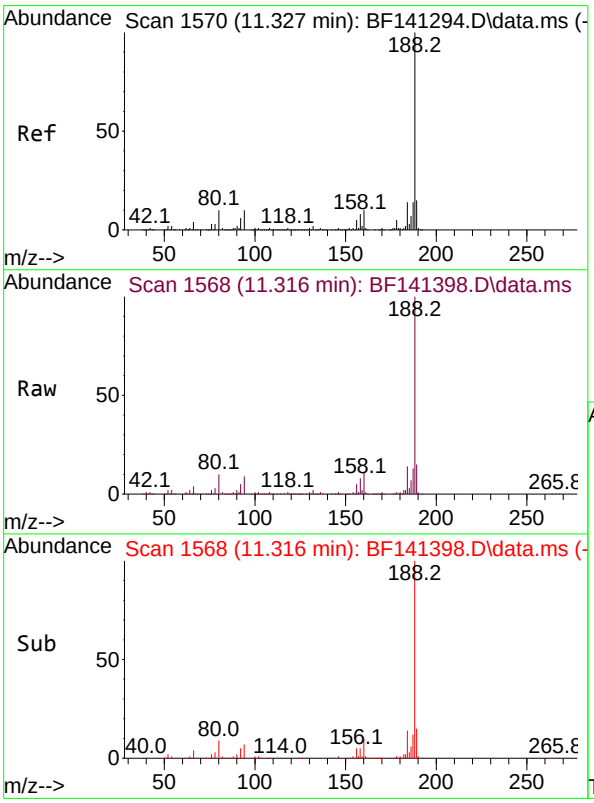
#63
Azobenzene
Concen: 40.234 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 475982

Ion	Ratio	Lower	Upper
77	100		
182	26.4	5.1	45.1
105	21.3	1.8	41.8
51	35.2	14.0	54.0

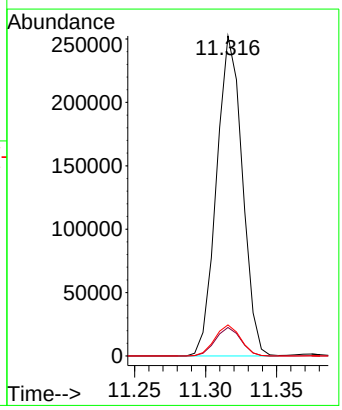


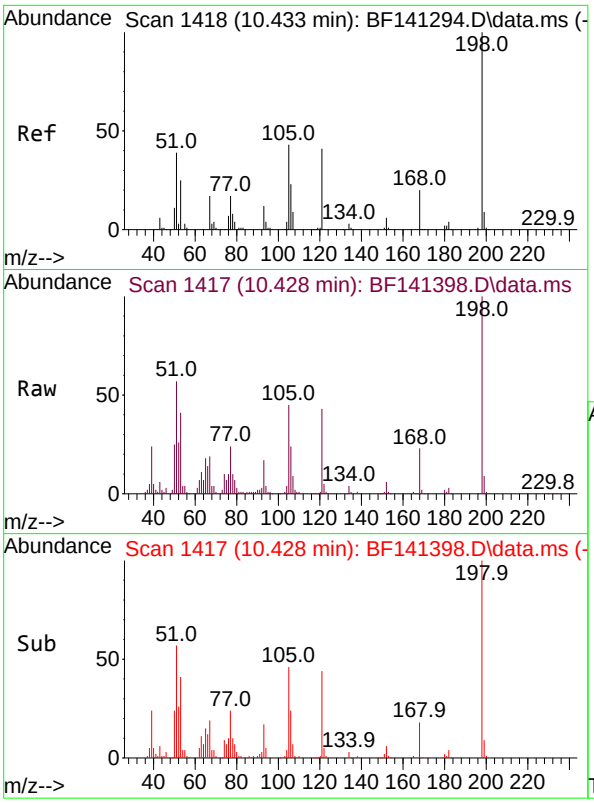


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:188 Resp: 318826

Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.8	11.6
80	9.7	8.2	12.4



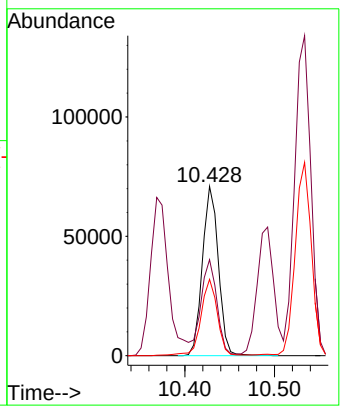


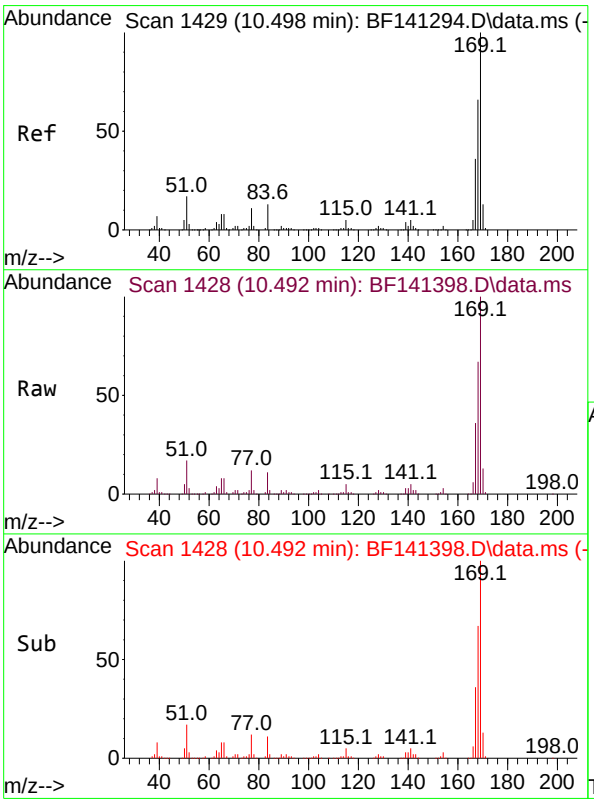
#65
4,6-Dinitro-2-methylphenol
Concen: 46.476 ng
RT: 10.428 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 87646

Ion	Ratio	Lower	Upper
198	100		
51	56.8	33.4	73.4
105	45.1	24.4	64.4

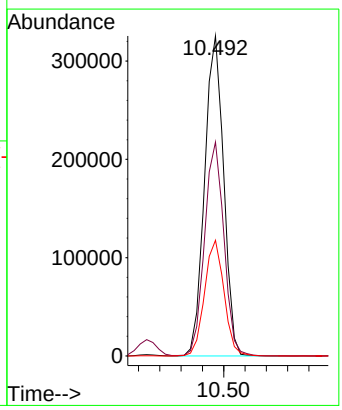


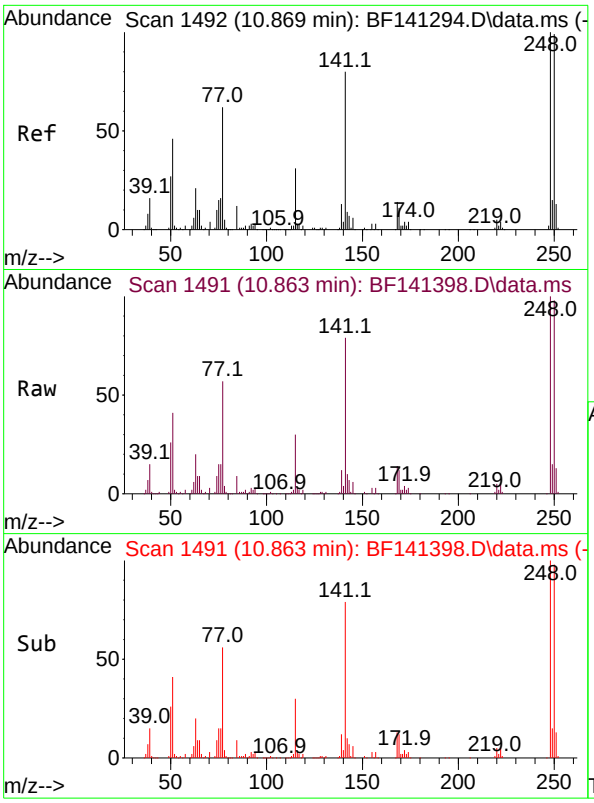


#66
n-Nitrosodiphenylamine
Concen: 39.195 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:169 Resp: 404177

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.0	79.4
167	36.2	28.8	43.2



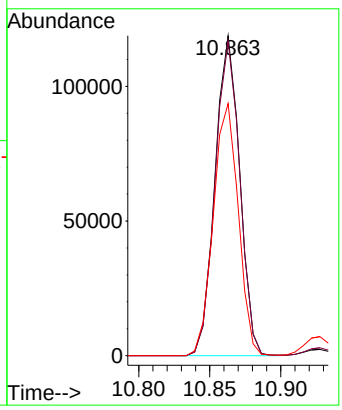


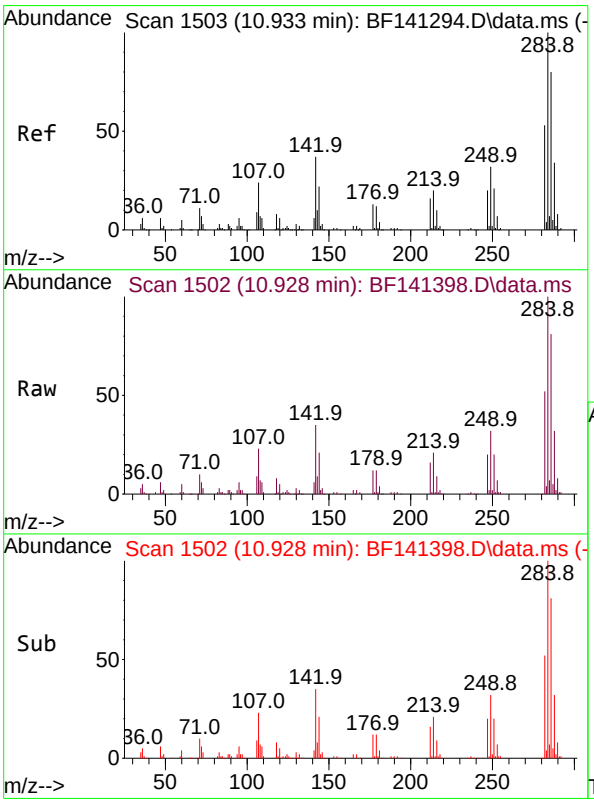
#67
4-Bromophenyl-phenylether
Concen: 40.154 ng
RT: 10.863 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 143325

Ion	Ratio	Lower	Upper
248	100		
250	98.2	79.0	118.4
141	78.8	63.7	95.5

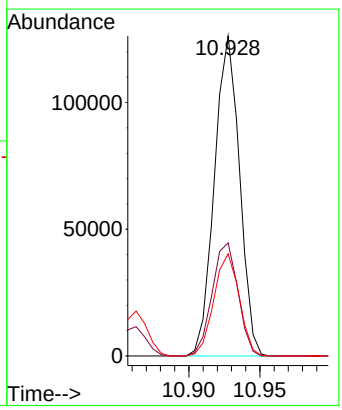


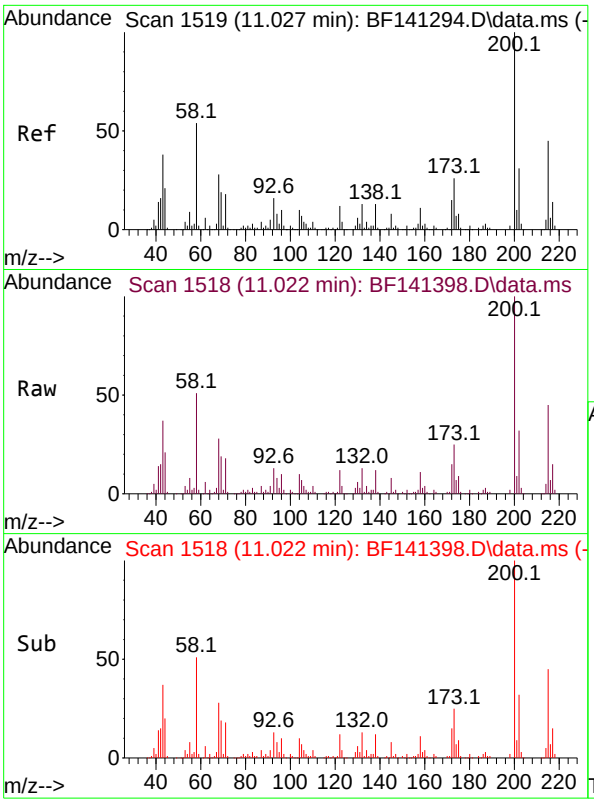


#68
Hexachlorobenzene
Concen: 40.974 ng
RT: 10.928 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:284 Resp: 155137

Ion	Ratio	Lower	Upper
284	100		
142	35.3	29.5	44.3
249	31.9	25.4	38.2



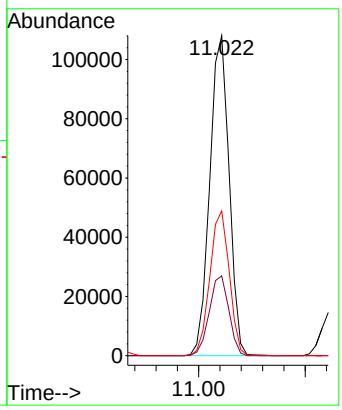


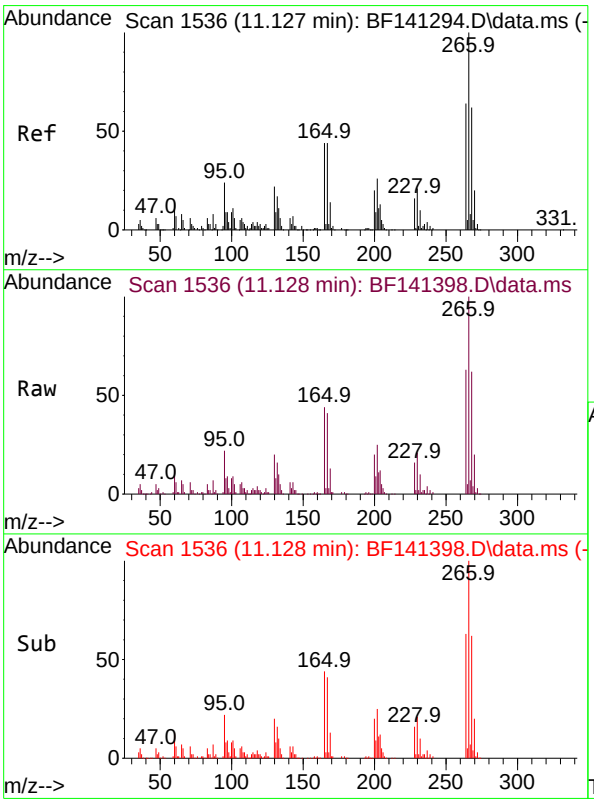
#69
Atrazine
Concen: 39.568 ng
RT: 11.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 136423

Ion	Ratio	Lower	Upper
200	100		
173	25.0	5.9	45.9
215	45.3	25.2	65.2

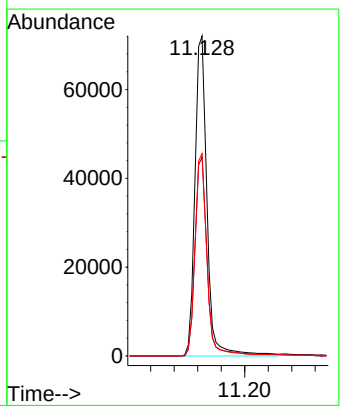


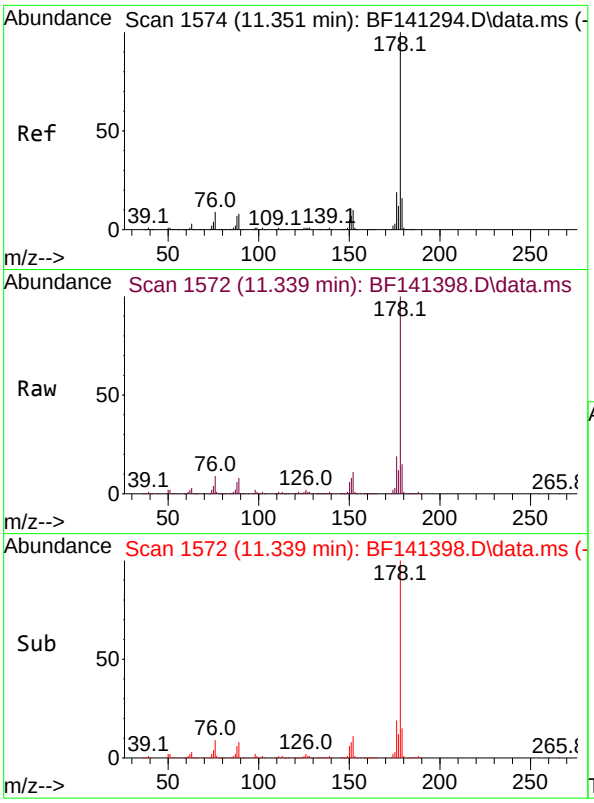


#70
Pentachlorophenol
Concen: 46.366 ng
RT: 11.128 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:266 Resp: 102799

Ion	Ratio	Lower	Upper
266	100		
268	62.2	49.9	74.9
264	63.2	51.0	76.4



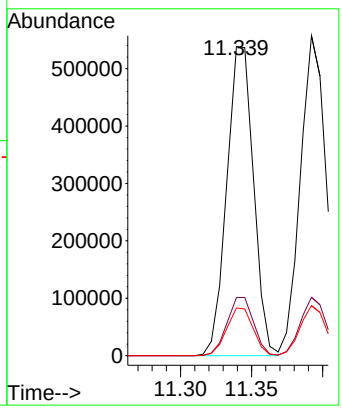


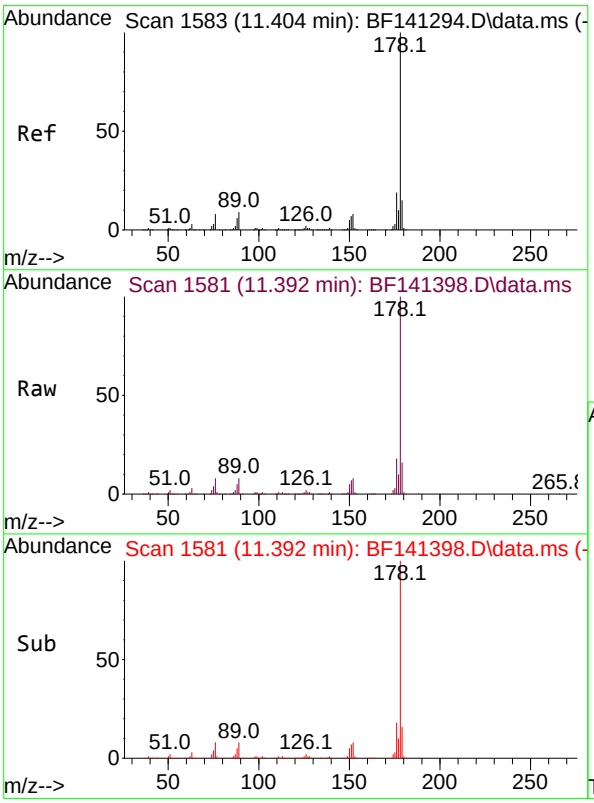
#71
Phenanthrene
Concen: 41.259 ng
RT: 11.339 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 707114

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.4	12.5	18.7

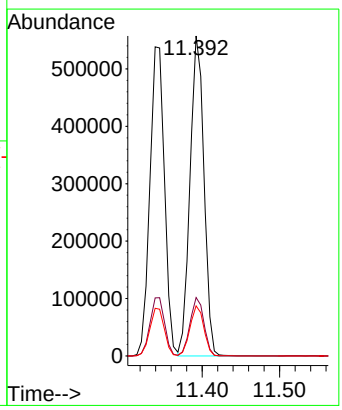


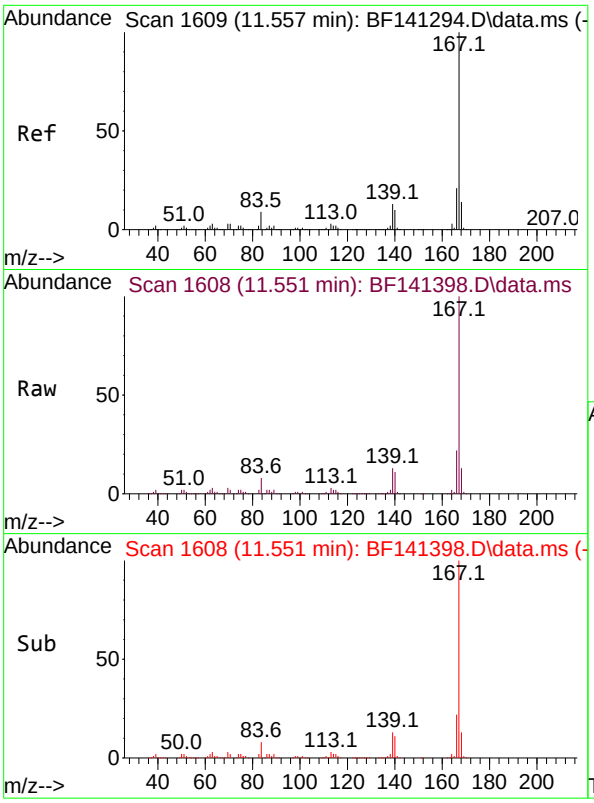


#72
Anthracene
Concen: 41.470 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:178 Resp: 696374

Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.0	22.6
179	15.7	12.3	18.5



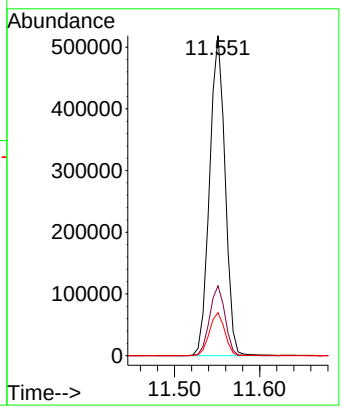


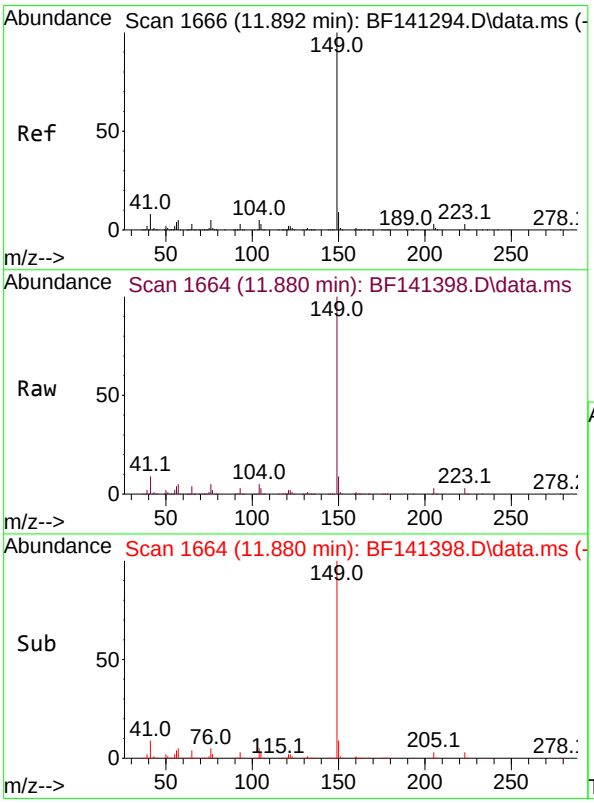
#73
Carbazole
Concen: 44.044 ng
RT: 11.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 655823

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.6
139	13.4	10.6	16.0

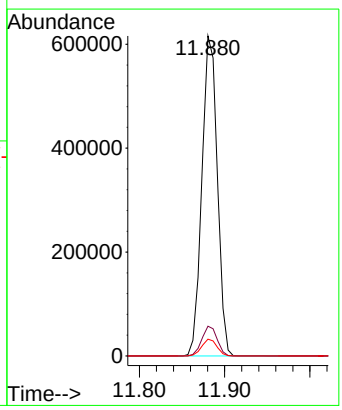


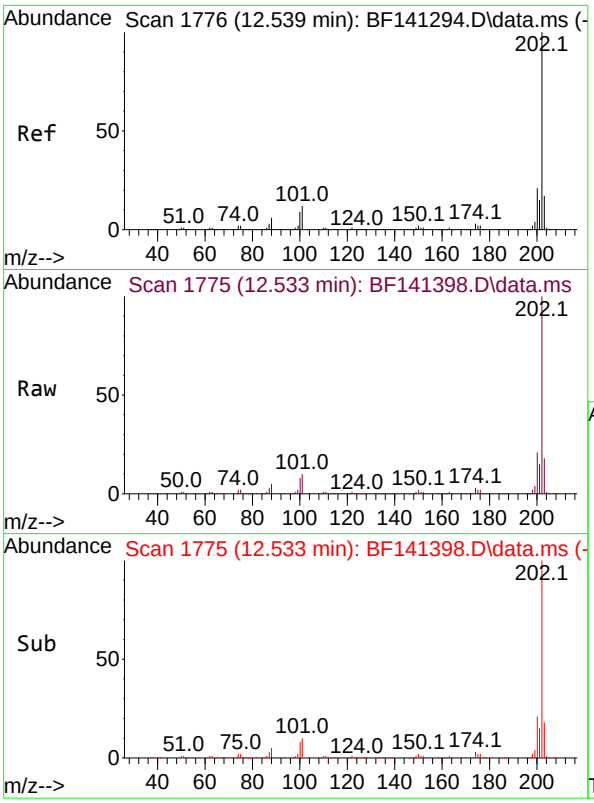


#74
Di-n-butylphthalate
Concen: 42.899 ng
RT: 11.880 min Scan# 1664
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:149 Resp: 774119

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.3	3.9	5.9



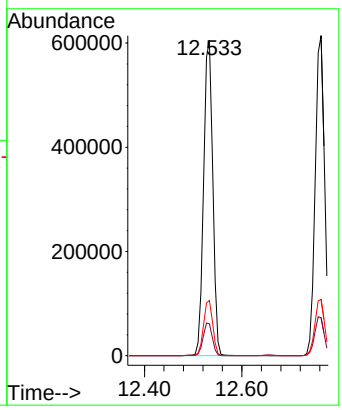


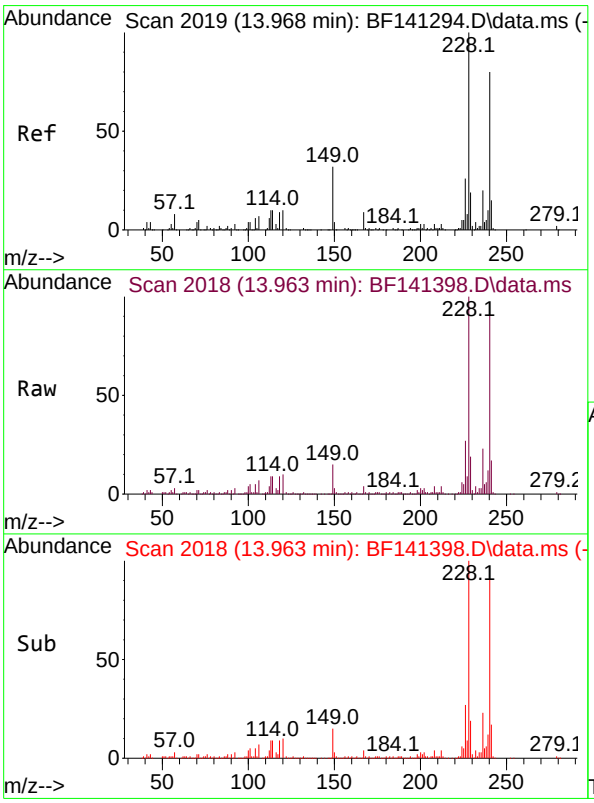
#75
Fluoranthene
Concen: 46.710 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 790425

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.7
203	17.5	0.0	37.5

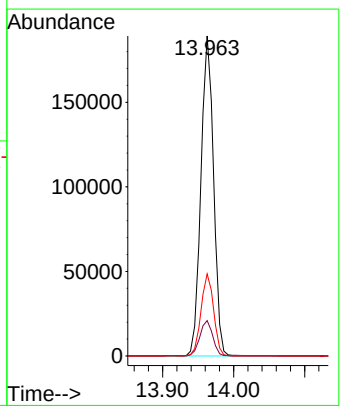


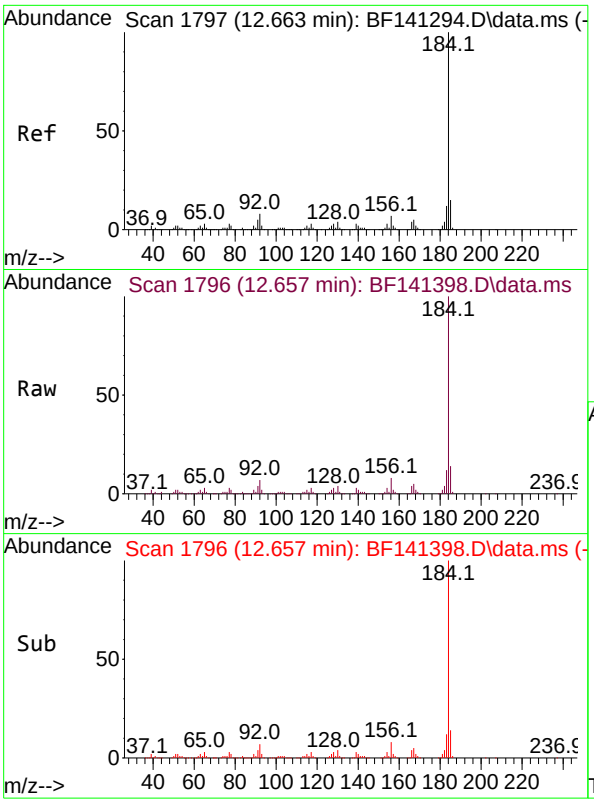


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:240 Resp: 235294

Ion	Ratio	Lower	Upper
240	100		
120	11.1	10.0	15.0
236	25.6	19.7	29.5



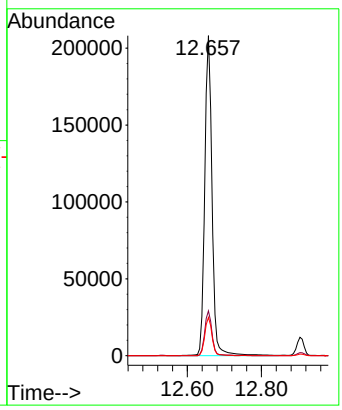


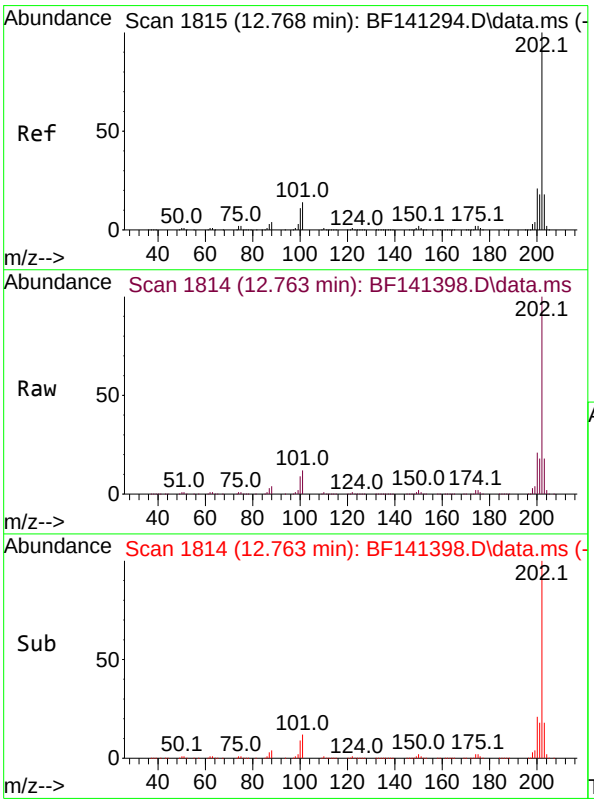
#77
Benzidine
Concen: 37.710 ng
RT: 12.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 284455

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.9	17.9
183	12.0	9.5	14.3

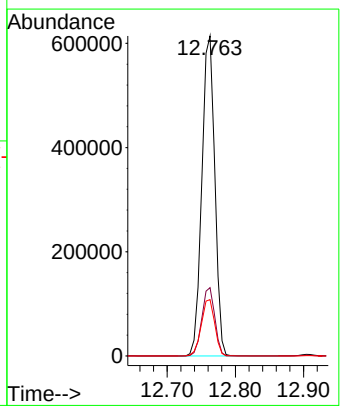


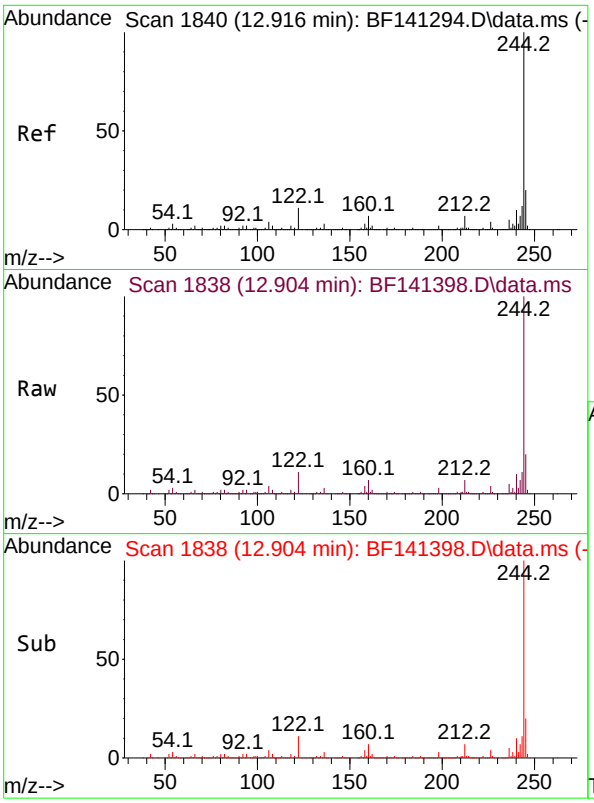


#78
Pyrene
Concen: 36.018 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:202 Resp: 813495

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.6	14.3	21.5



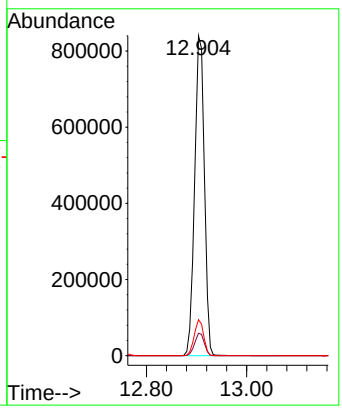


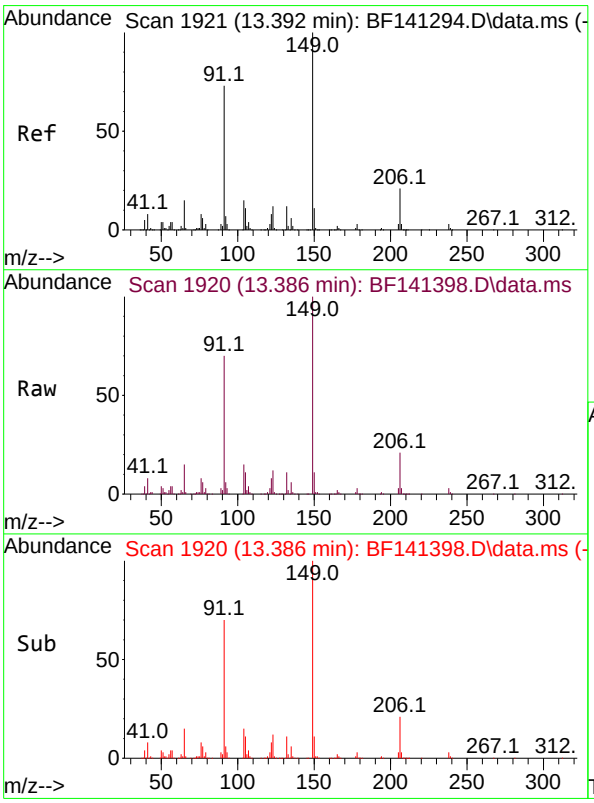
#79
Terphenyl-d14
Concen: 74.022 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1129373

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	11.3	8.8	13.2

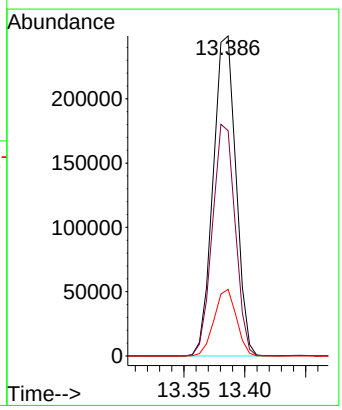


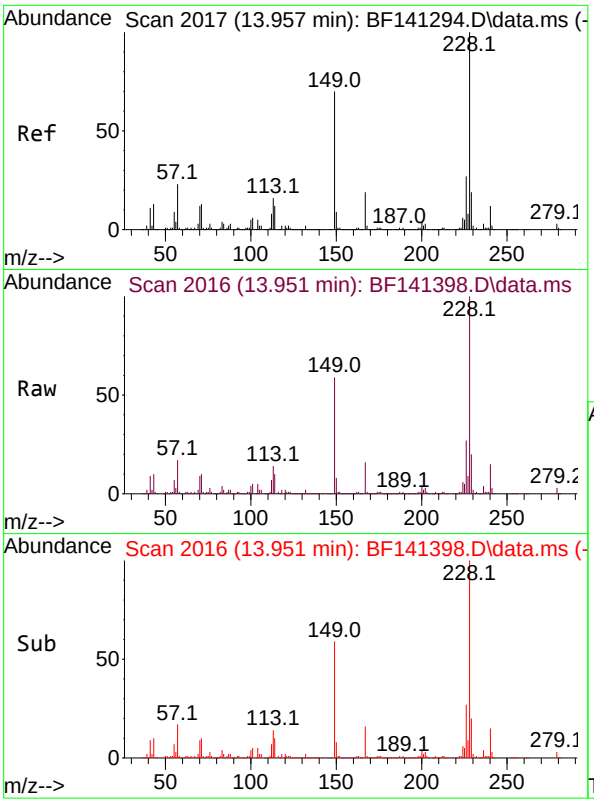


#80
Butylbenzylphthalate
Concen: 41.239 ng
RT: 13.386 min Scan# 1920
Delta R.T. -0.006 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:149 Resp: 325399

Ion	Ratio	Lower	Upper
149	100		
91	70.4	58.6	87.8
206	20.8	16.7	25.1



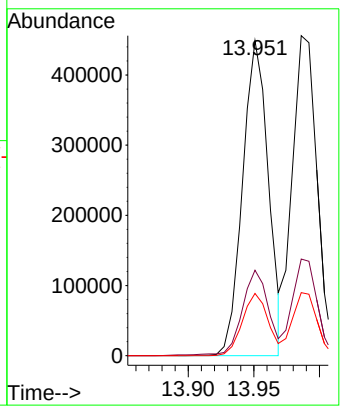


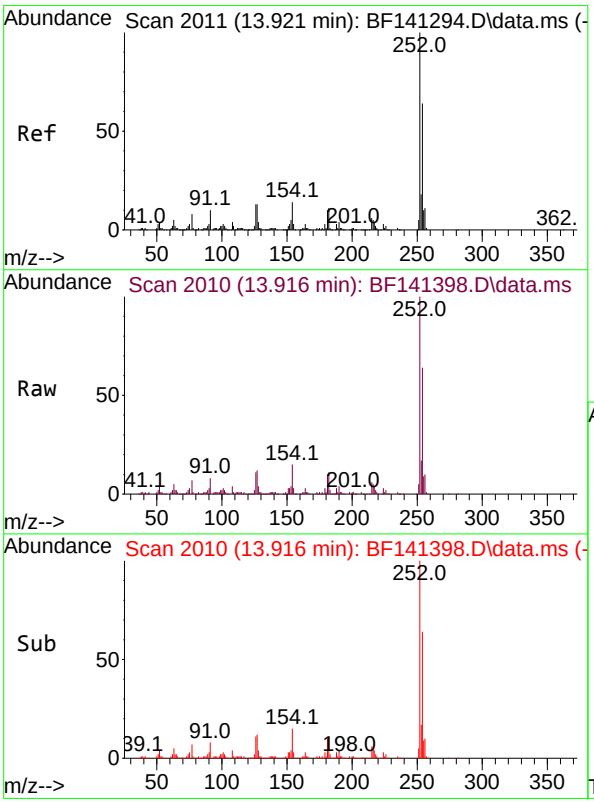
#81
Benzo(a)anthracene
Concen: 37.824 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 614138

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.2
229	19.8	15.5	23.3

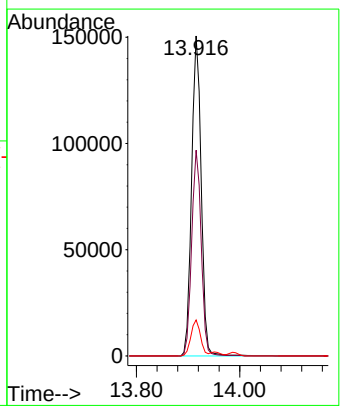


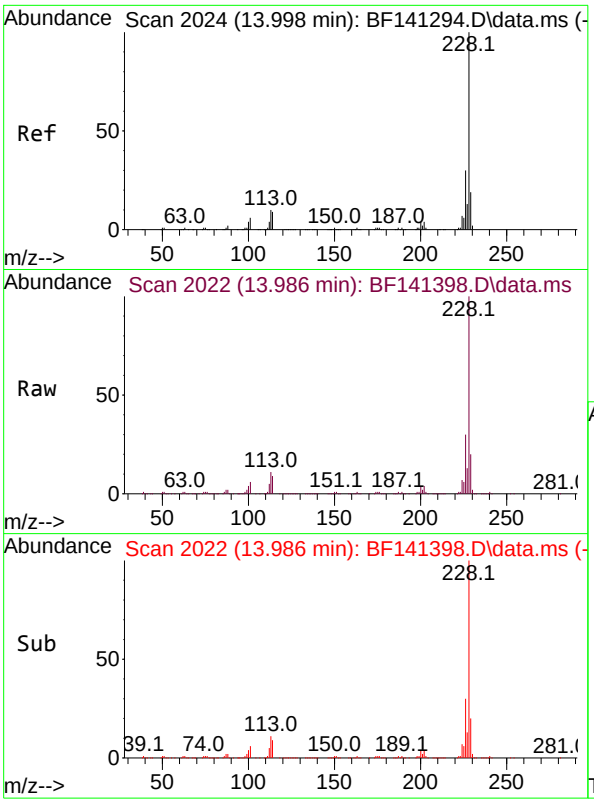


#82
3,3'-Dichlorobenzidine
Concen: 37.529 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:252 Resp: 193800

Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.3	76.9
126	11.3	10.0	15.0



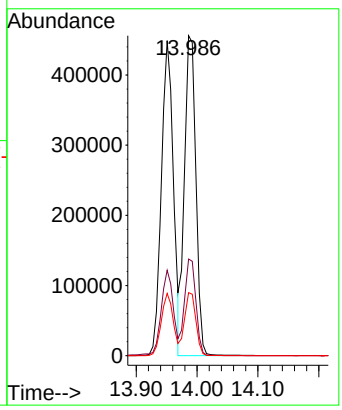


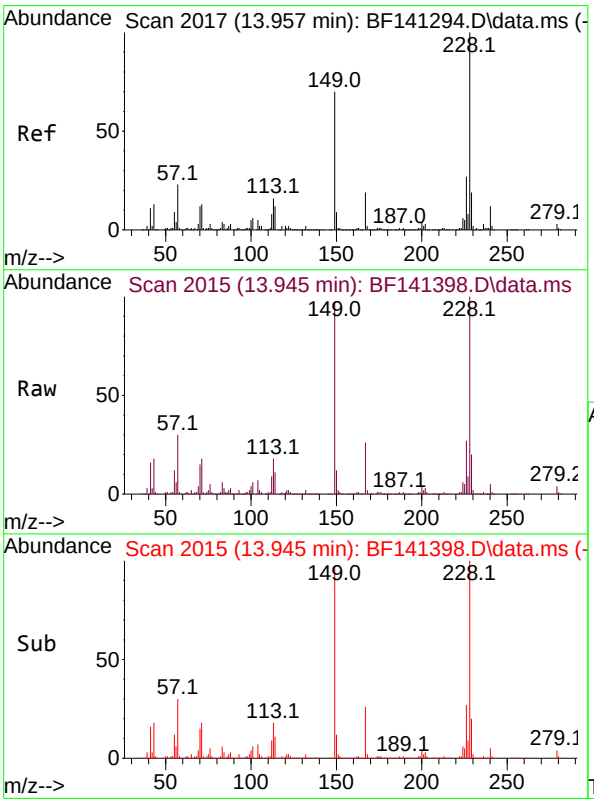
#83
Chrysene
Concen: 40.160 ng
RT: 13.986 min Scan# 2(
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 597592

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.7	15.6	23.4

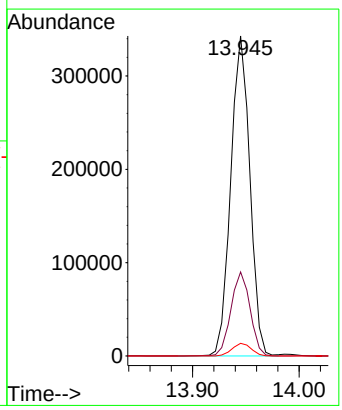


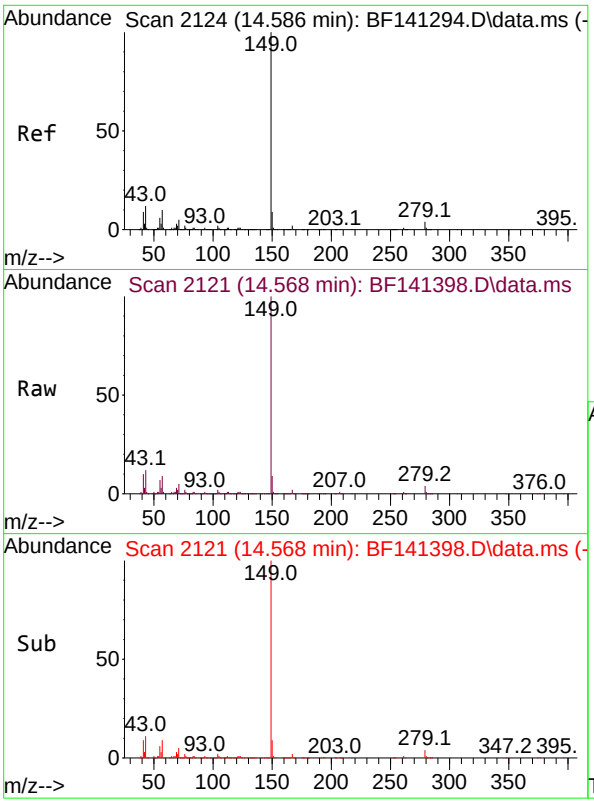


#84
Bis(2-ethylhexyl)phthalate
Concen: 42.781 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:149 Resp: 428215

Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.8	32.8
279	3.9	3.3	4.9



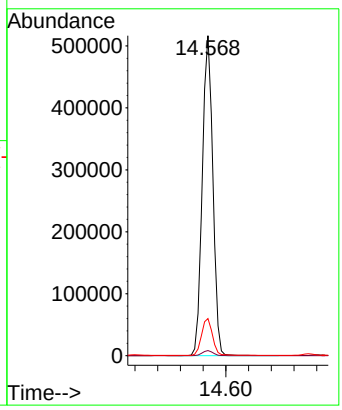


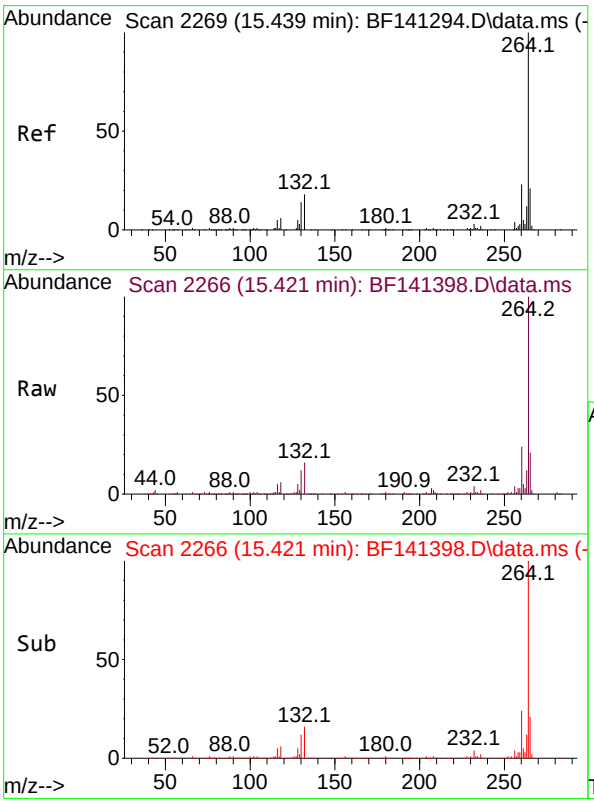
#85
Di-n-octyl phthalate
Concen: 42.840 ng
RT: 14.568 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 666025

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.8	14.8

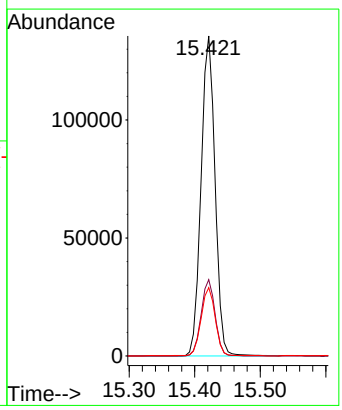


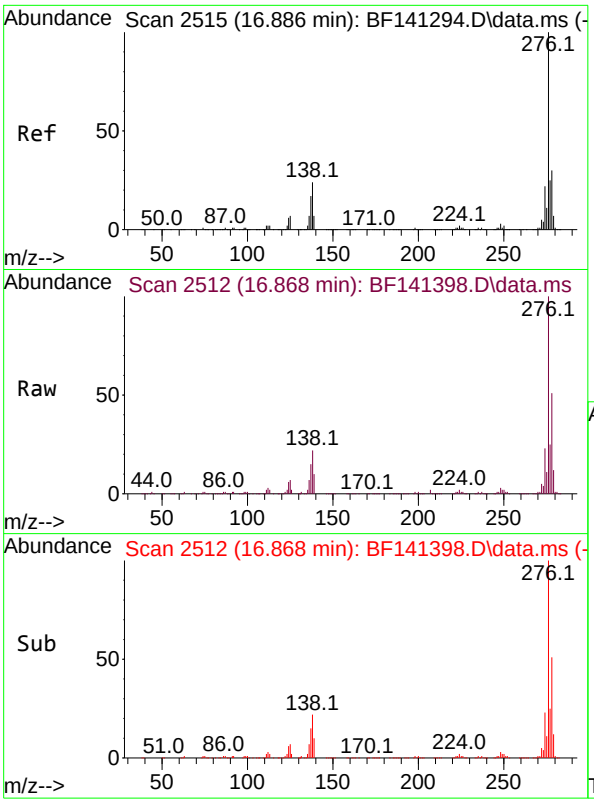


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:264 Resp: 201713

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.6	27.8
265	21.4	16.7	25.1



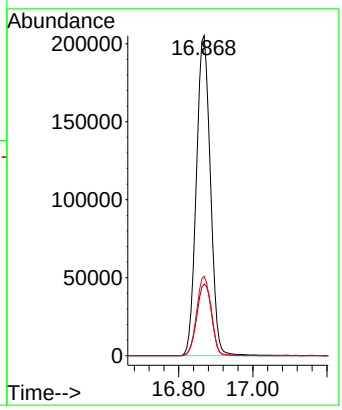


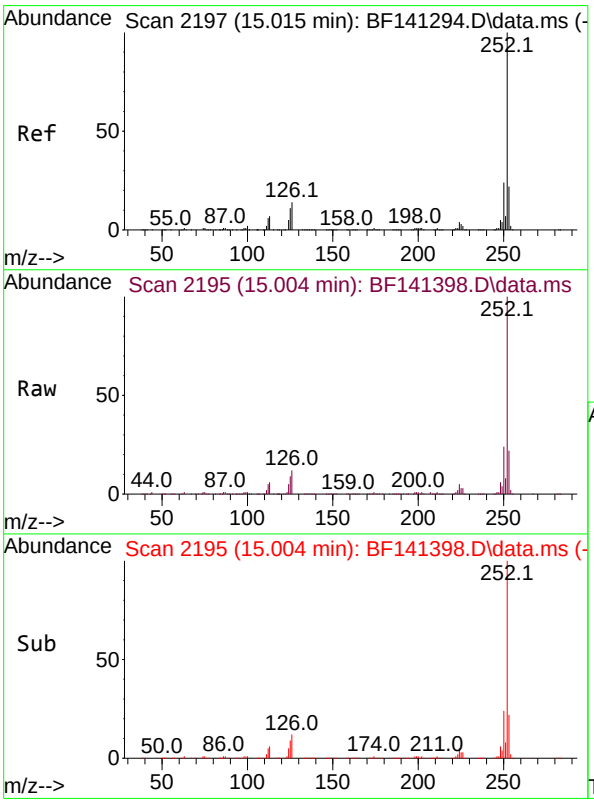
#87
Indeno(1,2,3-cd)pyrene
Concen: 41.469 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 539887

Ion	Ratio	Lower	Upper
276	100		
138	23.8	21.7	32.5
277	25.2	20.3	30.5

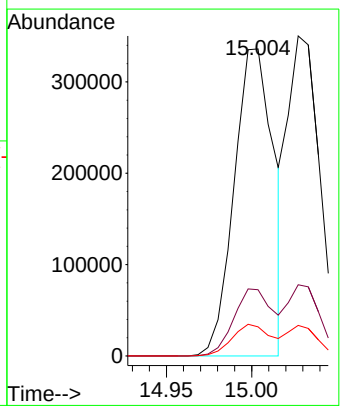


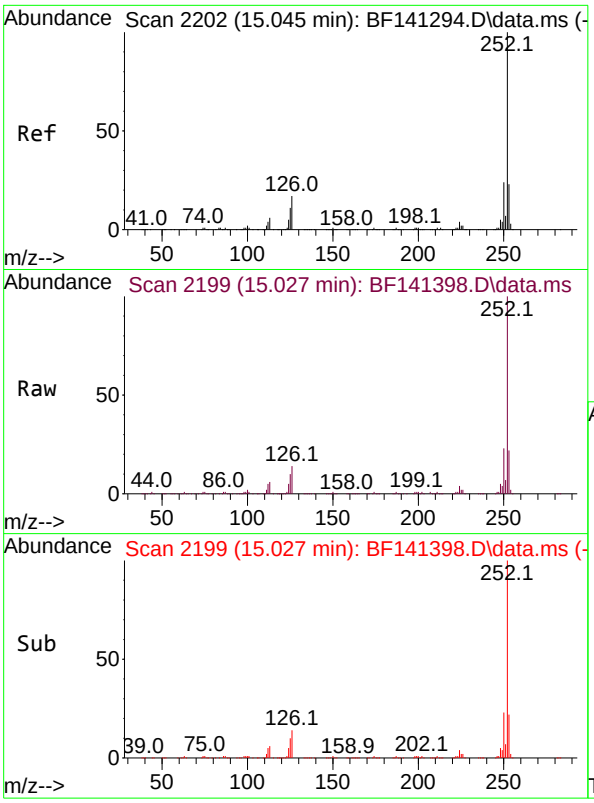


#88
Benzo(b)fluoranthene
Concen: 42.641 ng
RT: 15.004 min Scan# 2195
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:252 Resp: 541045

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.4	26.2
125	9.5	8.6	12.8



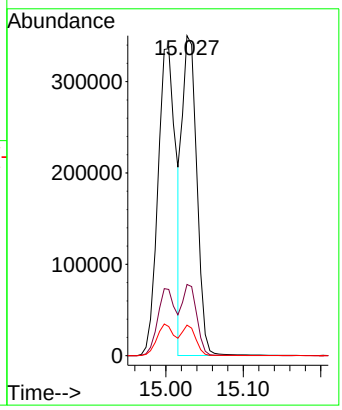


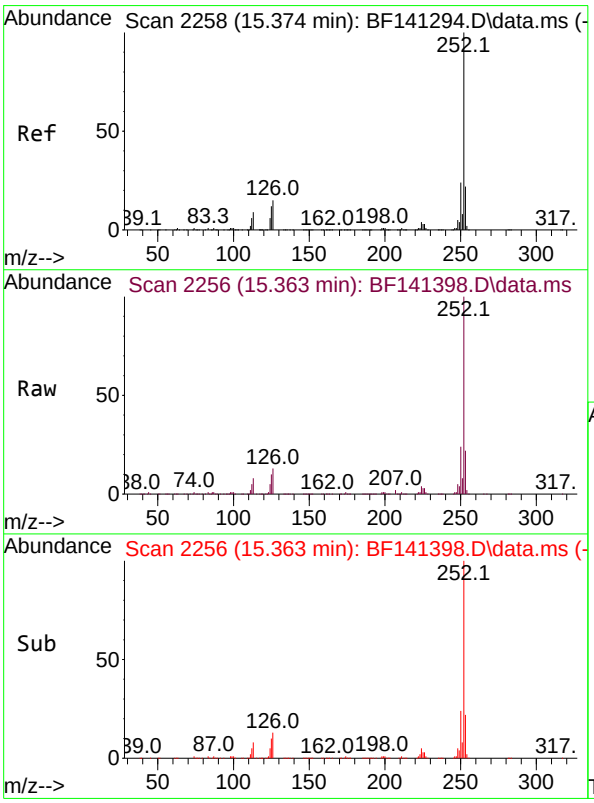
#89
Benzo(k)fluoranthene
Concen: 40.917 ng
RT: 15.027 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 459921

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	9.5	8.4	12.6

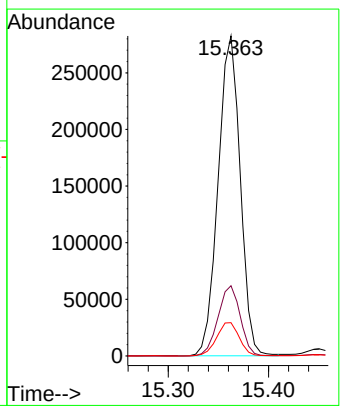


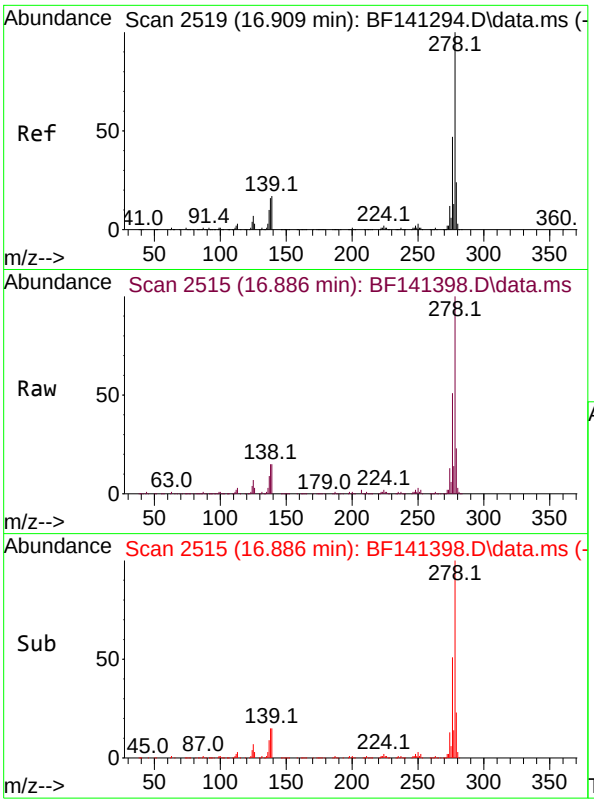


#90
Benzo(a)pyrene
Concen: 40.330 ng
RT: 15.363 min Scan# 2256
Delta R.T. -0.018 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:252 Resp: 432427

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.2	25.8
125	10.4	9.4	14.2



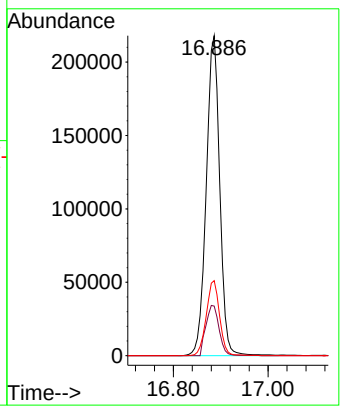


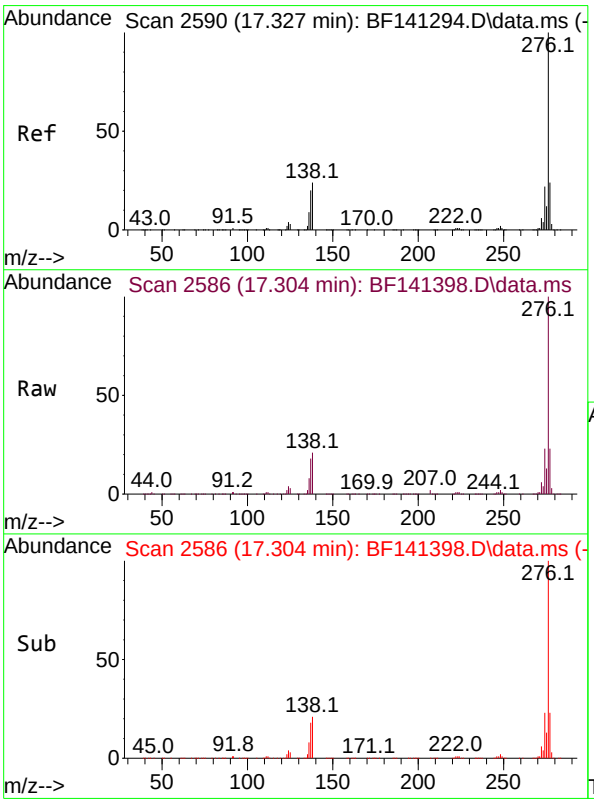
#91
Dibenzo(a,h)anthracene
Concen: 41.123 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 430740

Ion	Ratio	Lower	Upper
278	100		
139	15.5	13.9	20.9
279	23.4	18.8	28.2

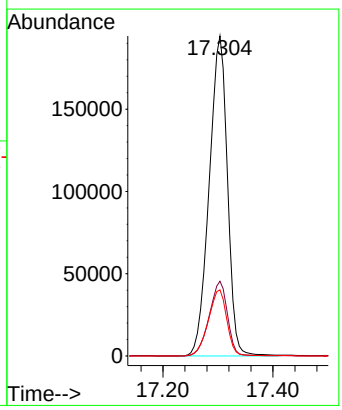




#92
Benzo(g,h,i)perylene
Concen: 41.212 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.041 min
Lab File: BF141398.D
Acq: 04 Feb 2025 10:42

Tgt Ion:276 Resp: 448843

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.2	28.8
138	20.7	19.0	28.4



Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	64	-0.01
2		1,4-Dioxane	0.573	0.555	3.1	66	-0.05
3		Pyridine	1.380	1.270	8.0	62	-0.05
4		n-Nitrosodimethylamine	0.789	0.816	-3.4	70	-0.08
5	S	2-Fluorophenol	1.303	1.302	0.1	70	0.00
6		Aniline	1.403	1.258	10.3	59	-0.02
7	S	Phenol-d6	1.657	1.560	5.9	66	0.00
8		2-Chlorophenol	1.396	1.387	0.6	69	-0.01
9		Benzaldehyde	0.960	0.893	7.0	64	-0.01
10	C	Phenol	1.757	1.650	6.1	64	0.00
11		bis(2-Chloroethyl)ether	1.347	1.262	6.3	66	-0.02
12		1,3-Dichlorobenzene	1.540	1.501	2.5	67	-0.01
13	C	1,4-Dichlorobenzene	1.547	1.539	0.5	69	-0.01
14		1,2-Dichlorobenzene	1.448	1.438	0.7	69	-0.01
15		Benzyl Alcohol	1.133	1.165	-2.8	69	-0.01
16		2,2'-oxybis(1-Chloropropane	2.342	2.108	10.0	62	-0.01
17		2-Methylphenol	1.135	1.074	5.4	66	0.00
18		Hexachloroethane	0.571	0.583	-2.1	71	-0.01
19	P	n-Nitroso-di-n-propylamine	0.985	0.929	5.7	67	-0.02
20		3+4-Methylphenols	1.393	1.375	1.3	69	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	62	-0.01
22		Acetophenone	0.475	0.491	-3.4	70	-0.02
23	S	Nitrobenzene-d5	0.379	0.391	-3.2	69	-0.01
24		Nitrobenzene	0.393	0.398	-1.3	67	-0.02
25		Isophorone	0.656	0.643	2.0	65	-0.02
26	C	2-Nitrophenol	0.185	0.185	0.0	65	-0.01
27		2,4-Dimethylphenol	0.236	0.230	2.5	64	0.00
28		bis(2-Chloroethoxy)methane	0.418	0.403	3.6	64	-0.01
29	C	2,4-Dichlorophenol	0.289	0.296	-2.4	68	0.00
30		1,2,4-Trichlorobenzene	0.330	0.335	-1.5	69	-0.01
31		Naphthalene	1.057	1.061	-0.4	68	-0.01
32		Benzoic acid	0.217	0.229	-5.5	65	-0.04
33		4-Chloroaniline	0.358	0.347	3.1	64	0.00
34	C	Hexachlorobutadiene	0.194	0.208	-7.2	72	0.00
35		Caprolactam	0.094	0.093	1.1	65	-0.04
36	C	4-Chloro-3-methylphenol	0.310	0.325	-4.8	71	0.00
37		2-Methylnaphthalene	0.672	0.684	-1.8	68	-0.01
38		1-Methylnaphthalene	0.660	0.668	-1.2	69	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	64	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.569	0.587	-3.2	70	-0.01
41	P	Hexachlorocyclopentadiene	0.168	0.185	-10.1	69	-0.01
42	S	2,4,6-Tribromophenol	0.183	0.202	-10.4	75	-0.01
43	C	2,4,6-Trichlorophenol	0.372	0.382	-2.7	67	0.00
44		2,4,5-Trichlorophenol	0.405	0.421	-4.0	71	0.00
45	S	2-Fluorobiphenyl	1.299	1.328	-2.2	72	-0.01
46		1,1'-Biphenyl	1.560	1.563	-0.2	69	-0.01
47		2-Chloronaphthalene	1.216	1.209	0.6	69	-0.01

Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.390	-2.1	68	0.00
49		Acenaphthylene	1.702	1.717	-0.9	69	-0.01
50		Dimethylphthalate	1.351	1.371	-1.5	71	-0.01
51		2,6-Dinitrotoluene	0.314	0.321	-2.2	69	-0.01
52	C	Acenaphthene	1.216	1.256	-3.3	71	-0.01
53		3-Nitroaniline	0.307	0.321	-4.6	68	-0.01
54	P	2,4-Dinitrophenol	0.146	0.165	-13.0	71	-0.01
55		Dibenzofuran	1.627	1.669	-2.6	70	-0.01
56	P	4-Nitrophenol	0.225	0.257	-14.2	73	0.00
57		2,4-Dinitrotoluene	0.406	0.441	-8.6	73	-0.01
58		Fluorene	1.262	1.306	-3.5	71	-0.01
59		2,3,4,6-Tetrachlorophenol	0.319	0.341	-6.9	72	0.00
60		Diethylphthalate	1.310	1.374	-4.9	72	-0.02
61		4-Chlorophenyl-phenylether	0.617	0.648	-5.0	73	0.00
62		4-Nitroaniline	0.302	0.344	-13.9	76	-0.02
63		Azobenzene	1.311	1.319	-0.6	69	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	70	-0.01
65		4,6-Dinitro-2-methylphenol	0.118	0.137	-16.1	76	-0.01
66	c	n-Nitrosodiphenylamine	0.647	0.634	2.0	70	-0.01
67		4-Bromophenyl-phenylether	0.224	0.225	-0.4	72	-0.01
68		Hexachlorobenzene	0.238	0.243	-2.1	74	-0.01
69		Atrazine	0.216	0.214	0.9	70	-0.01
70	C	Pentachlorophenol	0.139	0.161	-15.8	78	0.00
71		Phenanthrene	1.075	1.109	-3.2	75	-0.01
72		Anthracene	1.053	1.092	-3.7	75	-0.01
73		Carbazole	0.934	1.028	-10.1	80	0.00
74		Di-n-butylphthalate	1.132	1.214	-7.2	78	-0.01
75	C	Fluoranthene	1.062	1.240	-16.8	85	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	90	-0.01
77		Benzidine	0.641	0.604	5.8	75	0.00
78		Pyrene	1.920	1.729	9.9	89	0.00
79	S	Terphenyl-d14	1.297	1.200	7.5	92	-0.01
80		Butylbenzylphthalate	0.671	0.691	-3.0	100	0.00
81		Benzo(a)anthracene	1.380	1.305	5.4	93	-0.01
82		3,3'-Dichlorobenzidine	0.439	0.412	6.2	89	-0.01
83		Chrysene	1.265	1.270	-0.4	101	-0.01
84		Bis(2-ethylhexyl)phthalate	0.851	0.910	-6.9	105	-0.01
85	c	Di-n-octyl phthalate	1.321	1.415	-7.1	104	-0.02
86	I	Perylene-d12	1.000	1.000	0.0	72	-0.02
87		Indeno(1,2,3-cd)pyrene	1.291	1.338	-3.6	77	-0.03
88		Benzo(b)fluoranthene	1.258	1.341	-6.6	86	-0.02
89		Benzo(k)fluoranthene	1.114	1.140	-2.3	76	-0.02
90	C	Benzo(a)pyrene	1.063	1.072	-0.8	77	-0.02
91		Dibenzo(a,h)anthracene	1.039	1.068	-2.8	76	-0.04
92		Benzo(g,h,i)perylene	1.080	1.113	-3.1	77	-0.04

Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	64	-0.01
2		1,4-Dioxane	40.000	38.714	3.2	66	-0.05
3		Pyridine	40.000	36.803	8.0	62	-0.05
4		n-Nitrosodimethylamine	40.000	41.383	-3.5	70	-0.08
5	S	2-Fluorophenol	80.000	79.945	0.1	70	0.00
6		Aniline	40.000	35.876	10.3	59	-0.02
7	S	Phenol-d6	80.000	75.322	5.8	66	0.00
8		2-Chlorophenol	40.000	39.734	0.7	69	-0.01
9		Benzaldehyde	40.000	37.226	6.9	64	-0.01
10	C	Phenol	40.000	37.574	6.1	64	0.00
11		bis(2-Chloroethyl)ether	40.000	37.487	6.3	66	-0.02
12		1,3-Dichlorobenzene	40.000	39.009	2.5	67	-0.01
13	C	1,4-Dichlorobenzene	40.000	39.806	0.5	69	-0.01
14		1,2-Dichlorobenzene	40.000	39.708	0.7	69	-0.01
15		Benzyl Alcohol	40.000	41.142	-2.9	69	-0.01
16		2,2'-oxybis(1-Chloropropane	40.000	36.004	10.0	62	-0.01
17		2-Methylphenol	40.000	37.854	5.4	66	0.00
18		Hexachloroethane	40.000	40.842	-2.1	71	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	37.733	5.7	67	-0.02
20		3+4-Methylphenols	40.000	39.483	1.3	69	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	62	-0.01
22		Acetophenone	40.000	41.351	-3.4	70	-0.02
23	S	Nitrobenzene-d5	80.000	82.468	-3.1	69	-0.01
24		Nitrobenzene	40.000	40.497	-1.2	67	-0.02
25		Isophorone	40.000	39.213	2.0	65	-0.02
26	C	2-Nitrophenol	40.000	39.973	0.1	65	-0.01
27		2,4-Dimethylphenol	40.000	38.904	2.7	64	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.495	3.8	64	-0.01
29	C	2,4-Dichlorophenol	40.000	41.025	-2.6	68	0.00
30		1,2,4-Trichlorobenzene	40.000	40.631	-1.6	69	-0.01
31		Naphthalene	40.000	40.155	-0.4	68	-0.01
32		Benzoic acid	40.000	42.292	-5.7	65	-0.04
33		4-Chloroaniline	40.000	38.783	3.0	64	0.00
34	C	Hexachlorobutadiene	40.000	42.897	-7.2	72	0.00
35		Caprolactam	40.000	39.634	0.9	65	-0.04
36	C	4-Chloro-3-methylphenol	40.000	42.000	-5.0	71	0.00
37		2-Methylnaphthalene	40.000	40.722	-1.8	68	-0.01
38		1-Methylnaphthalene	40.000	40.487	-1.2	69	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	64	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	41.257	-3.1	70	-0.01
41	P	Hexachlorocyclopentadiene	40.000	43.974	-9.9	69	-0.01
42	S	2,4,6-Tribromophenol	80.000	88.147	-10.2	75	-0.01
43	C	2,4,6-Trichlorophenol	40.000	41.007	-2.5	67	0.00
44		2,4,5-Trichlorophenol	40.000	41.577	-3.9	71	0.00
45	S	2-Fluorobiphenyl	80.000	81.771	-2.2	72	-0.01
46		1,1'-Biphenyl	40.000	40.089	-0.2	69	-0.01
47		2-Chloronaphthalene	40.000	39.785	0.5	69	-0.01

Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	40.764	-1.9	68	0.00
49		Acenaphthylene	40.000	40.360	-0.9	69	-0.01
50		Dimethylphthalate	40.000	40.604	-1.5	71	-0.01
51		2,6-Dinitrotoluene	40.000	40.929	-2.3	69	-0.01
52	C	Acenaphthene	40.000	41.328	-3.3	71	-0.01
53		3-Nitroaniline	40.000	41.746	-4.4	68	-0.01
54	P	2,4-Dinitrophenol	40.000	45.240	-13.1	71	-0.01
55		Dibenzofuran	40.000	41.022	-2.6	70	-0.01
56	P	4-Nitrophenol	40.000	45.798	-14.5	73	0.00
57		2,4-Dinitrotoluene	40.000	43.471	-8.7	73	-0.01
58		Fluorene	40.000	41.395	-3.5	71	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	42.803	-7.0	72	0.00
60		Diethylphthalate	40.000	41.956	-4.9	72	-0.02
61		4-Chlorophenyl-phenylether	40.000	42.037	-5.1	73	0.00
62		4-Nitroaniline	40.000	45.468	-13.7	76	-0.02
63		Azobenzene	40.000	40.234	-0.6	69	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	70	-0.01
65		4,6-Dinitro-2-methylphenol	40.000	46.476	-16.2	76	-0.01
66	c	n-Nitrosodiphenylamine	40.000	39.195	2.0	70	-0.01
67		4-Bromophenyl-phenylether	40.000	40.154	-0.4	72	-0.01
68		Hexachlorobenzene	40.000	40.974	-2.4	74	-0.01
69		Atrazine	40.000	39.568	1.1	70	-0.01
70	C	Pentachlorophenol	40.000	46.366	-15.9	78	0.00
71		Phenanthrene	40.000	41.259	-3.1	75	-0.01
72		Anthracene	40.000	41.470	-3.7	75	-0.01
73		Carbazole	40.000	44.044	-10.1	80	0.00
74		Di-n-butylphthalate	40.000	42.899	-7.2	78	-0.01
75	C	Fluoranthene	40.000	46.710	-16.8	85	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	90	-0.01
77		Benzidine	40.000	37.710	5.7	75	0.00
78		Pyrene	40.000	36.018	10.0	89	0.00
79	S	Terphenyl-d14	80.000	74.022	7.5	92	-0.01
80		Butylbenzylphthalate	40.000	41.239	-3.1	100	0.00
81		Benzo(a)anthracene	40.000	37.824	5.4	93	-0.01
82		3,3'-Dichlorobenzidine	40.000	37.529	6.2	89	-0.01
83		Chrysene	40.000	40.160	-0.4	101	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	42.781	-7.0	105	-0.01
85	c	Di-n-octyl phthalate	40.000	42.840	-7.1	104	-0.02
86	I	Perylene-d12	20.000	20.000	0.0	72	-0.02
87		Indeno(1,2,3-cd)pyrene	40.000	41.469	-3.7	77	-0.03
88		Benzo(b)fluoranthene	40.000	42.641	-6.6	86	-0.02
89		Benzo(k)fluoranthene	40.000	40.917	-2.3	76	-0.02
90	C	Benzo(a)pyrene	40.000	40.330	-0.8	77	-0.02
91		Dibenzo(a,h)anthracene	40.000	41.123	-2.8	76	-0.04
92		Benzo(g,h,i)perylene	40.000	41.212	-3.0	77	-0.04

Sample Results: **BF141398.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141398.D
Acq On : 04 Feb 2025 10:42
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 04 11:34:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

QC SAMPLE DATA

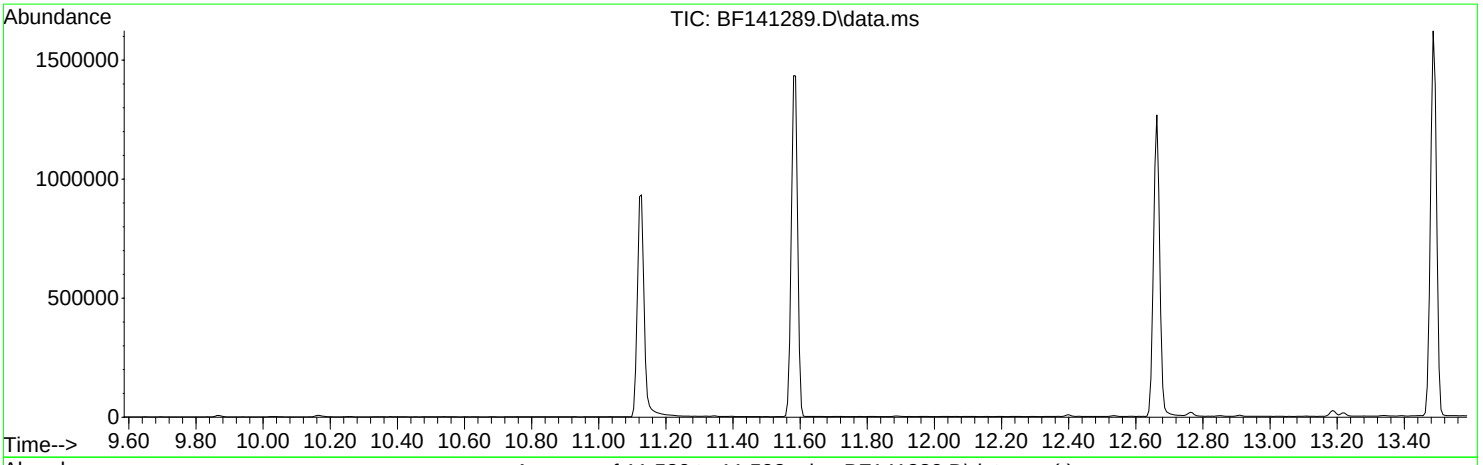
Sample Results: **BF141289.D**

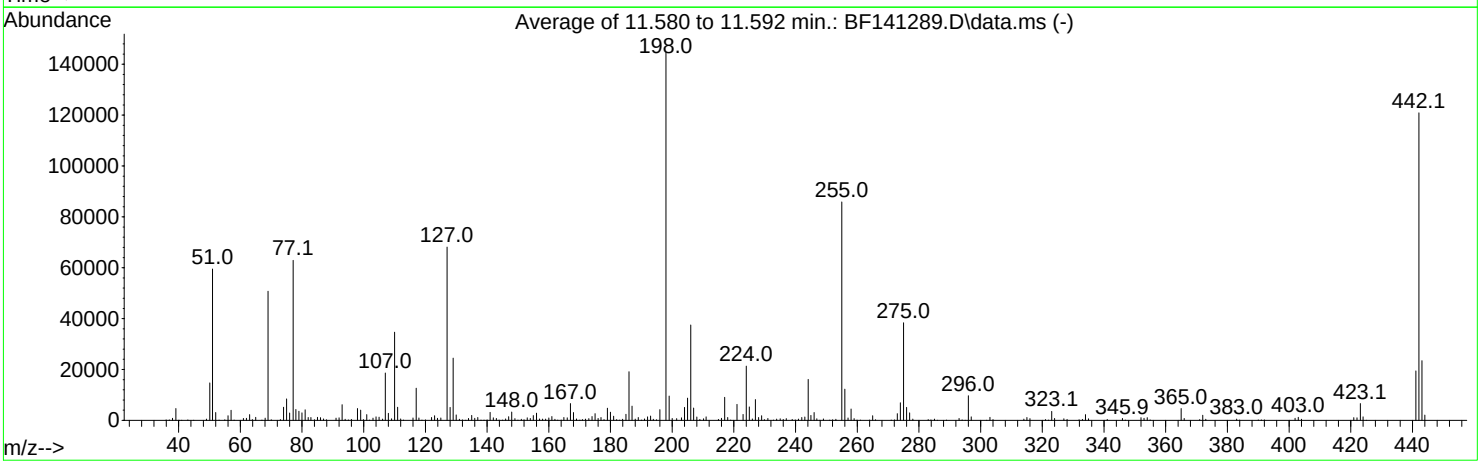
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025





AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1606

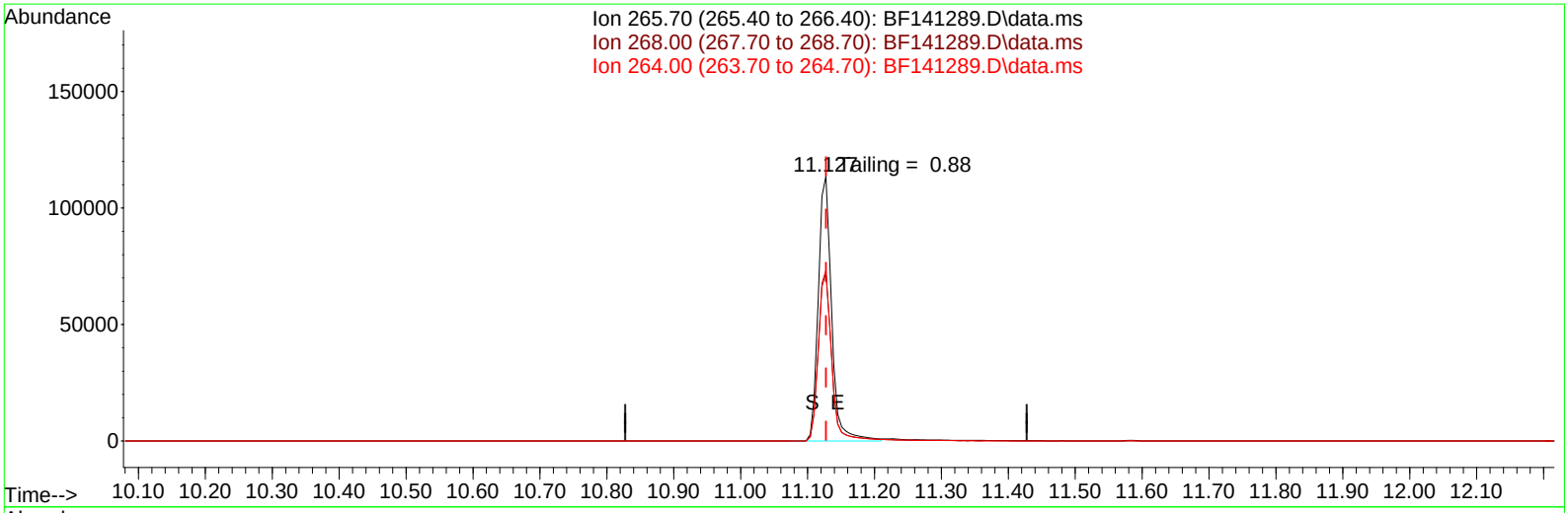
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.1	59504	PASS
68	69	0.00	2	1.7	874	PASS
69	198	0.00	100	35.1	50789	PASS
70	69	0.00	2	0.6	281	PASS
127	198	10	80	47.1	68133	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	144613	PASS
199	198	5	9	6.6	9584	PASS
275	198	10	60	26.5	38371	PASS
365	198	1	100	3.2	4642	PASS
441	198	0.01	100	13.5	19467	PASS
442	442	50	100	100.0	120923	PASS
443	442	15	24	19.4	23456	PASS

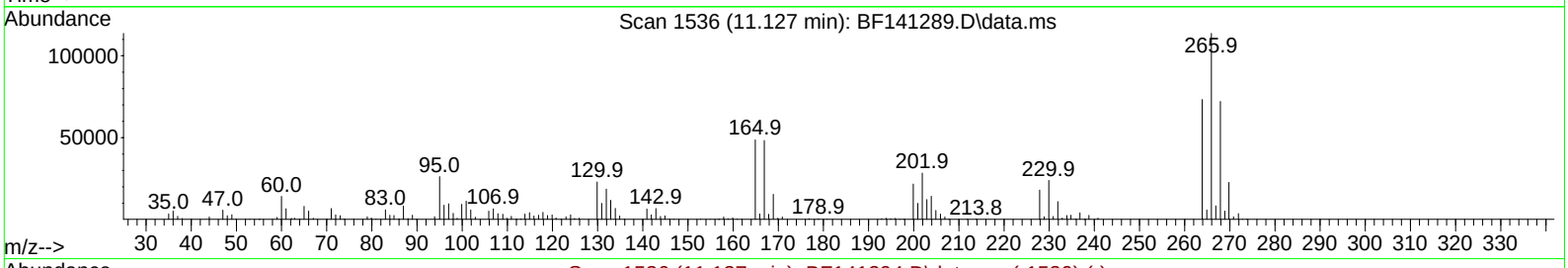
Sample Results: **BF141289.D**

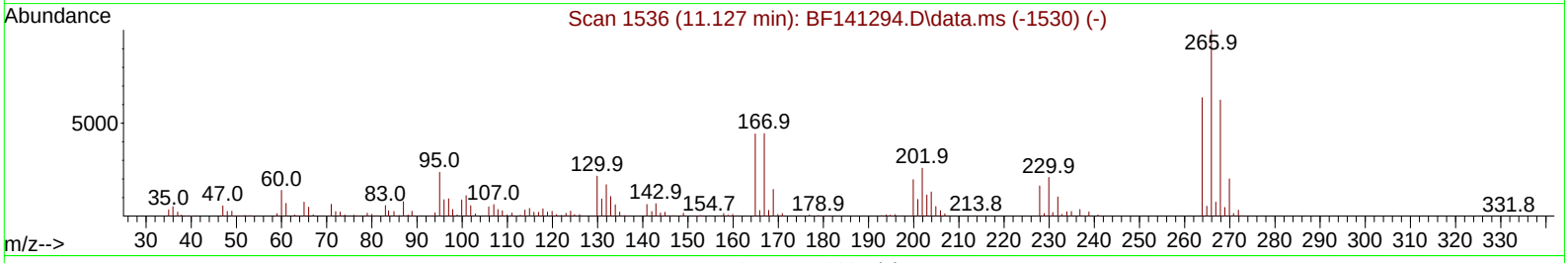
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 29 13:18:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 13:12:40 2025
Response via : Initial Calibration







TIC: BF141289.D\data.ms

(70) Pentachlorophenol (C)

11.127min (-0.000) 18353.04 ng

response 157302

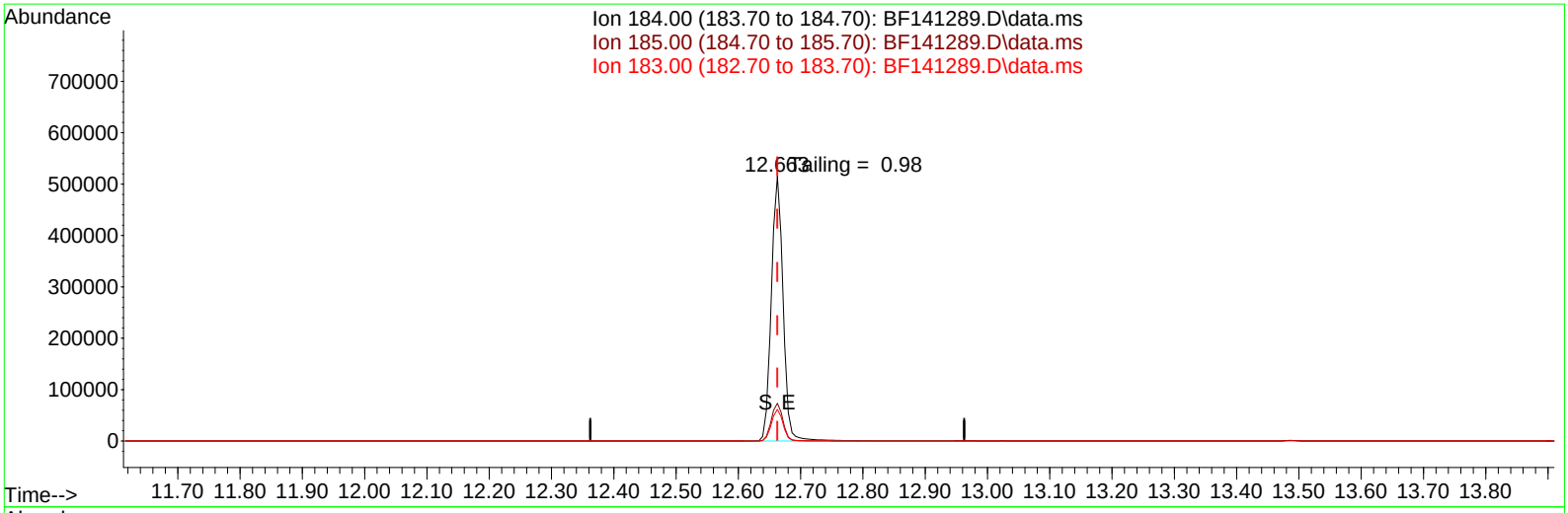
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	68.00	63.47
264.00	63.20	64.50
0.00	0.00	0.00

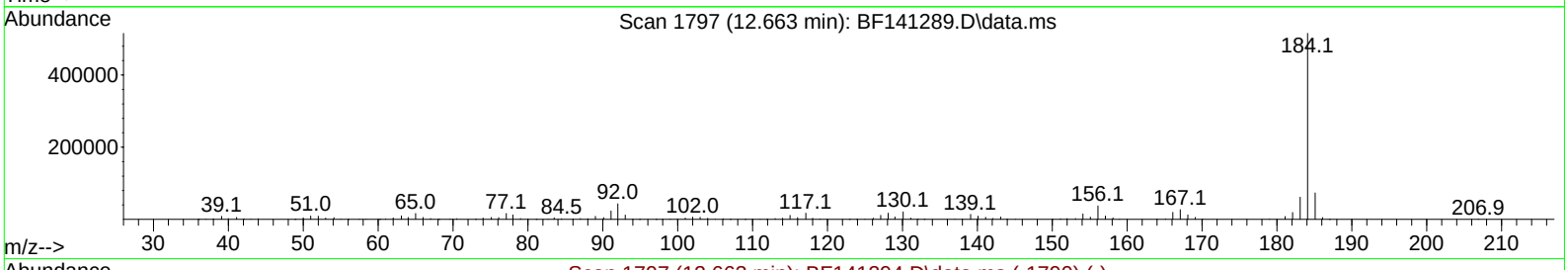
Sample Results: **BF141289.D**

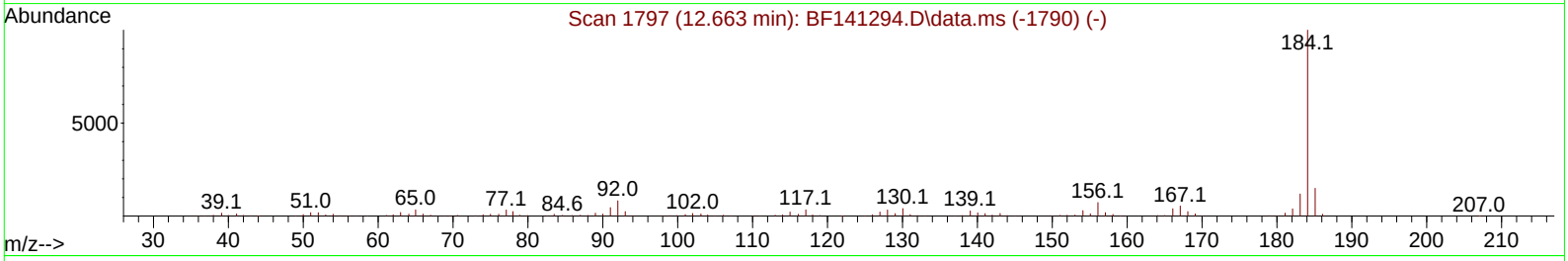
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 29 13:18:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 13:12:40 2025
Response via : Initial Calibration







TIC: BF141289.D\data.ms

(77) Benzidine

12.663min (-0.000) 86413.53 ng

response 677498

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.27
183.00	11.70	11.93
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/29/2025	BNA_F	BF141289.D
Compound Name	**Response**	**Retention Time**
DDT	407437	13.486
DDD	11239	13.186
DDE	931	12.851
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12170	419607	2.90

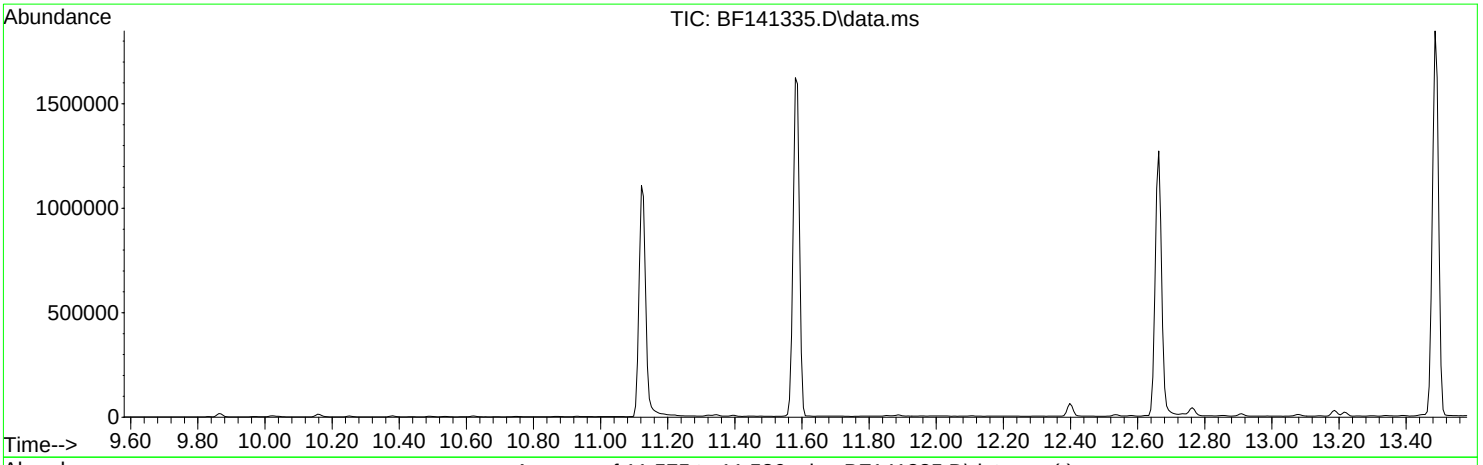
Sample Results: **BF141335.D**

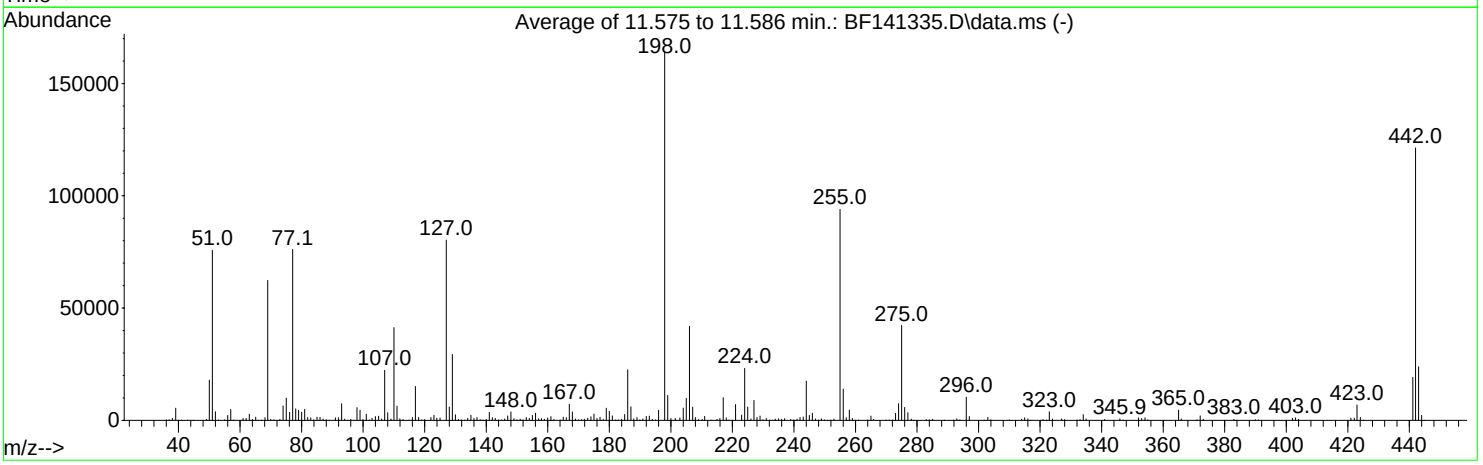
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025





AutoFind: Scans 1612, 1613, 1614; Background Corrected with Scan 1606

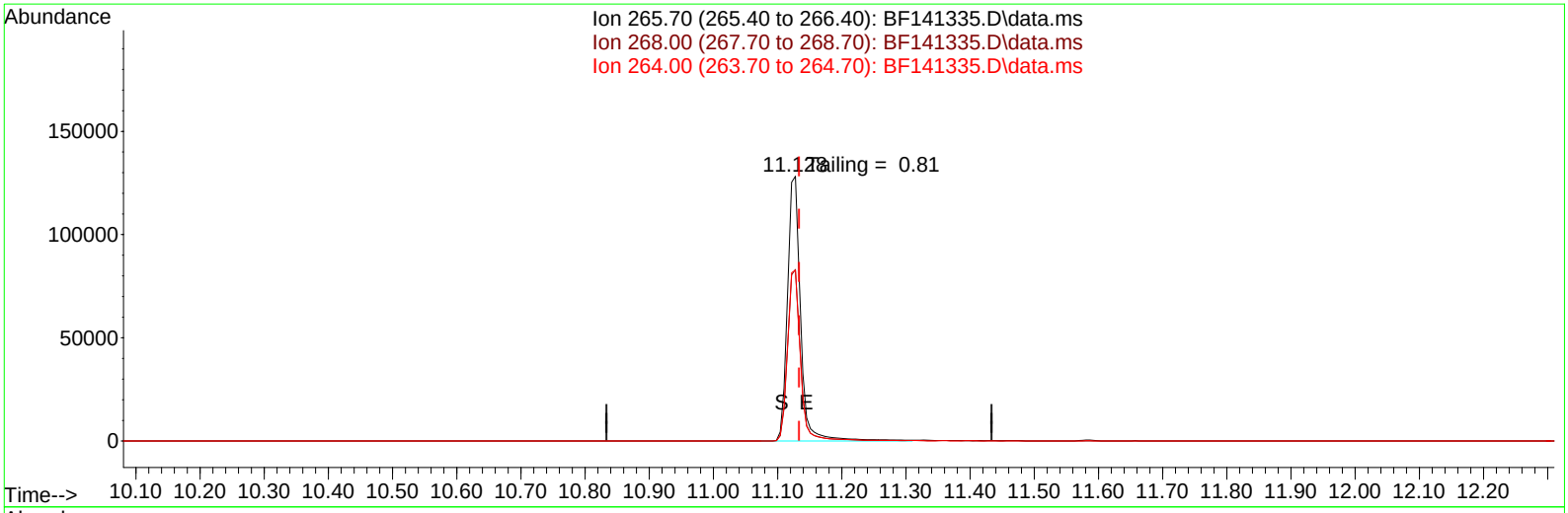
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.2	75704	PASS
68	69	0.00	2	1.9	1195	PASS
69	198	0.00	100	38.1	62342	PASS
70	69	0.00	2	0.7	436	PASS
127	198	10	80	49.0	80267	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	163789	PASS
199	198	5	9	6.8	11100	PASS
275	198	10	60	25.8	42219	PASS
365	198	1	100	2.8	4575	PASS
441	198	0.01	100	11.7	19173	PASS
442	442	50	100	100.0	121349	PASS
443	442	15	24	19.7	23847	PASS

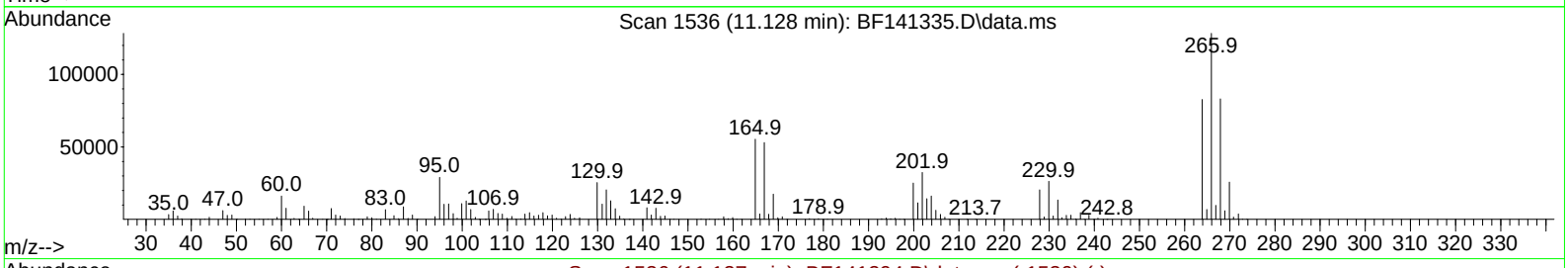
Sample Results: **BF141335.D**

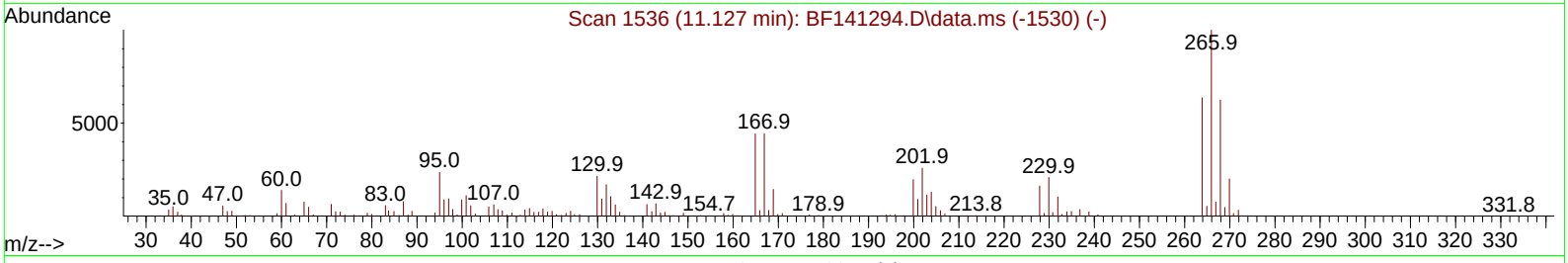
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 31 17:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141335.D\data.ms

(70) Pentachlorophenol (C)

11.128min (-0.006) 9273.56 ng

response 183922

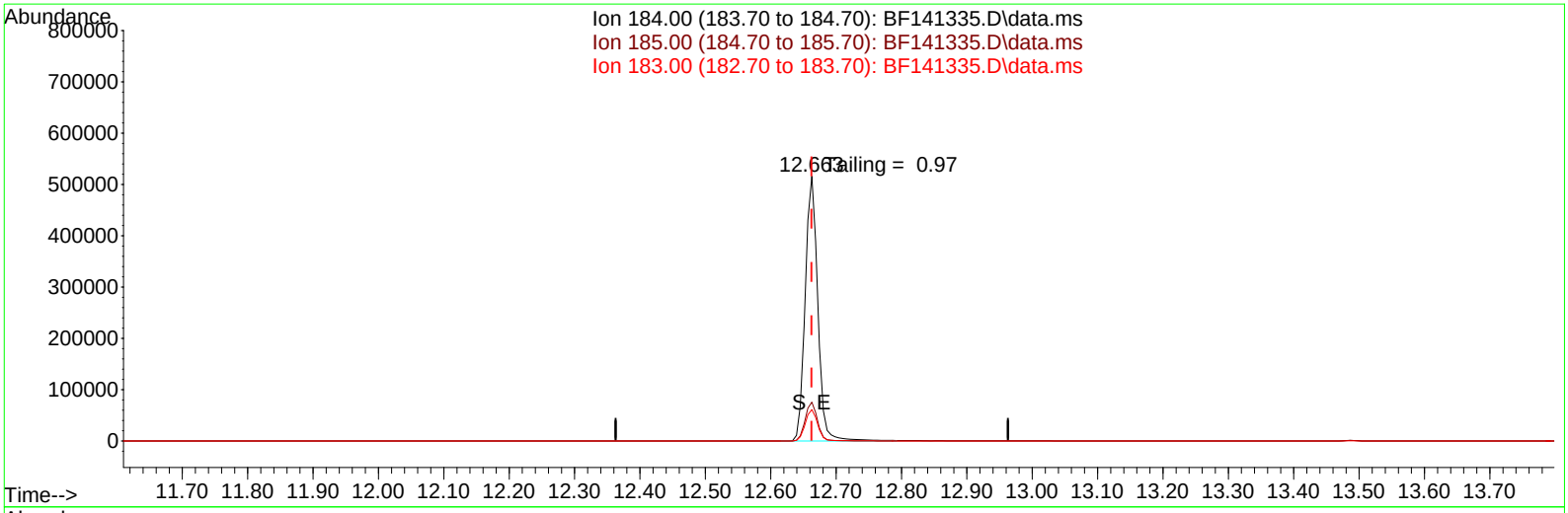
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	64.82
264.00	63.70	64.49
0.00	0.00	0.00

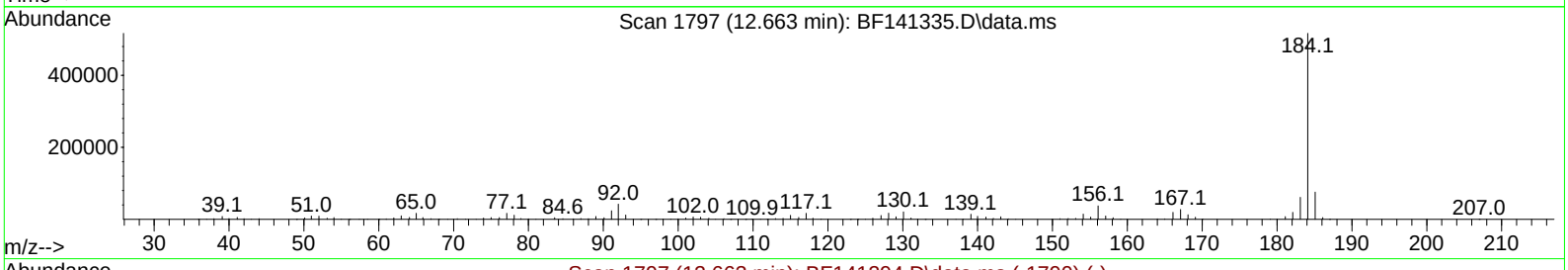
Sample Results: **BF141335.D**

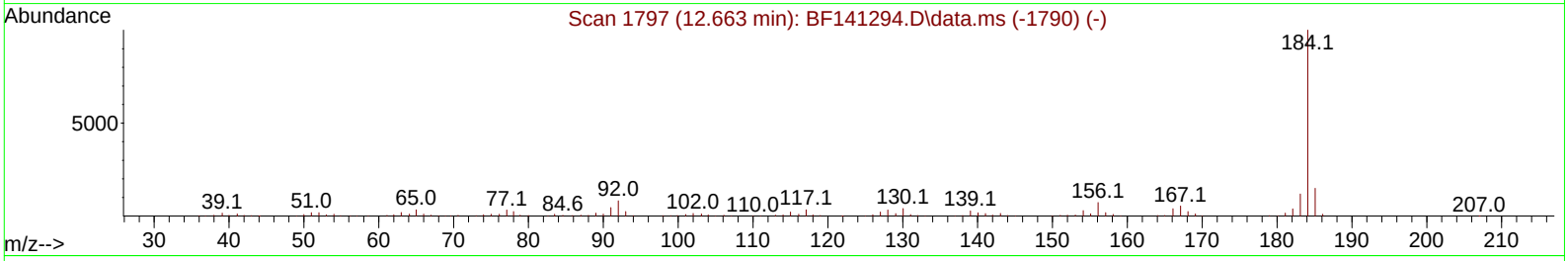
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 31 17:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141335.D\data.ms

(77) Benzidine

12.663min (-0.000) 12340.55 ng

response 693915

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.67
183.00	11.90	11.87
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/31/2025	BNA_F	BF141335.D
Compound Name	**Response**	**Retention Time**
DDT	464959	13.486
DDD	12206	13.186
DDE	750	12.851
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
12956	477915	2.71

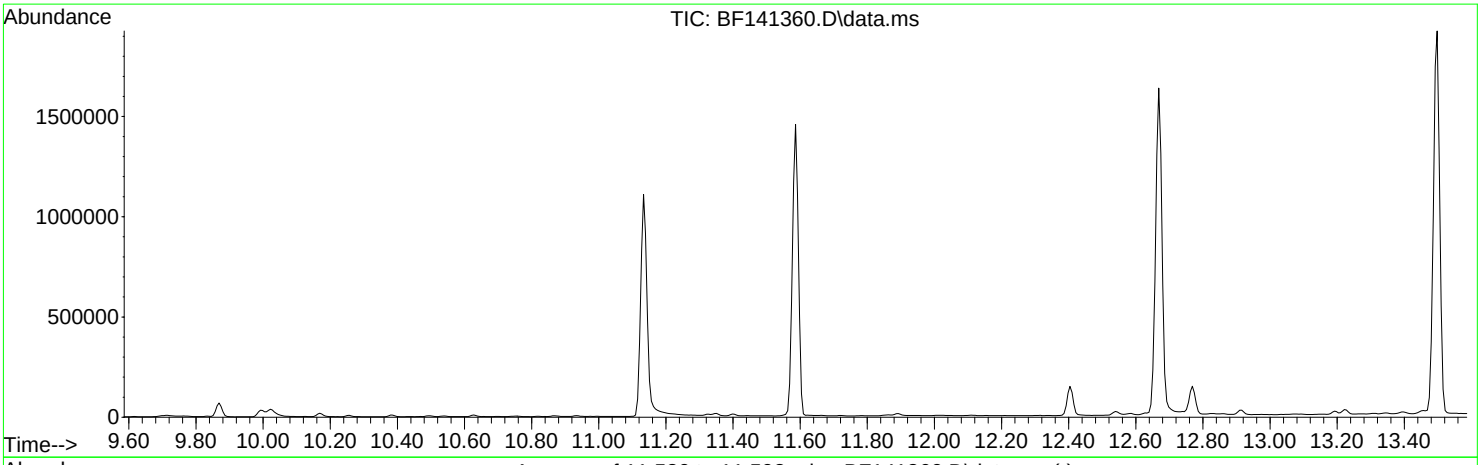
Sample Results: **BF141360.D**

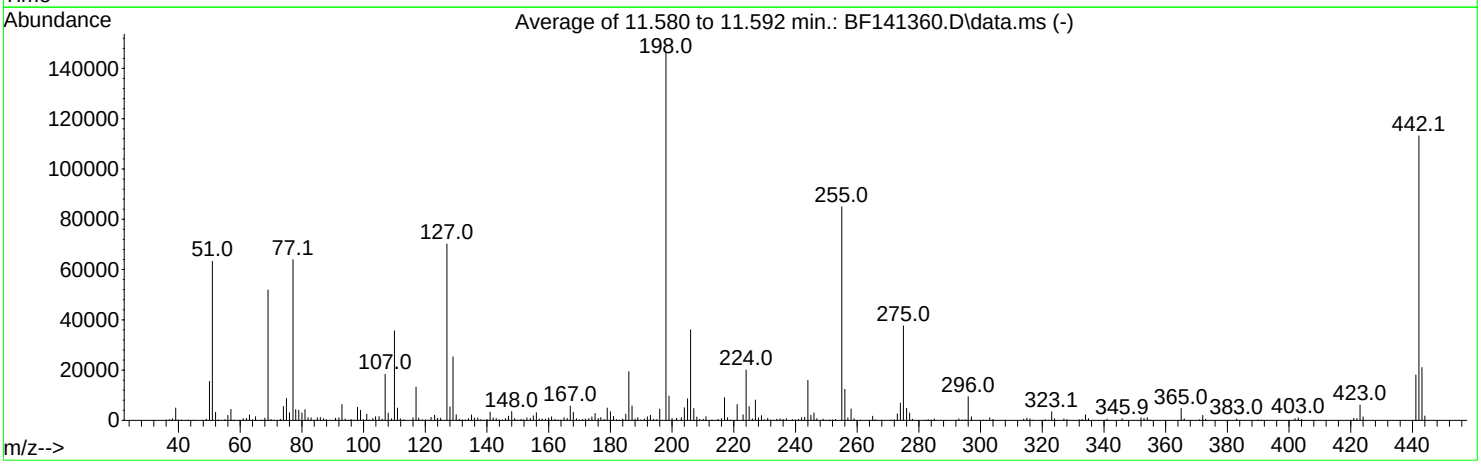
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141360.D
Acq On : 03 Feb 2025 09:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025





AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1607

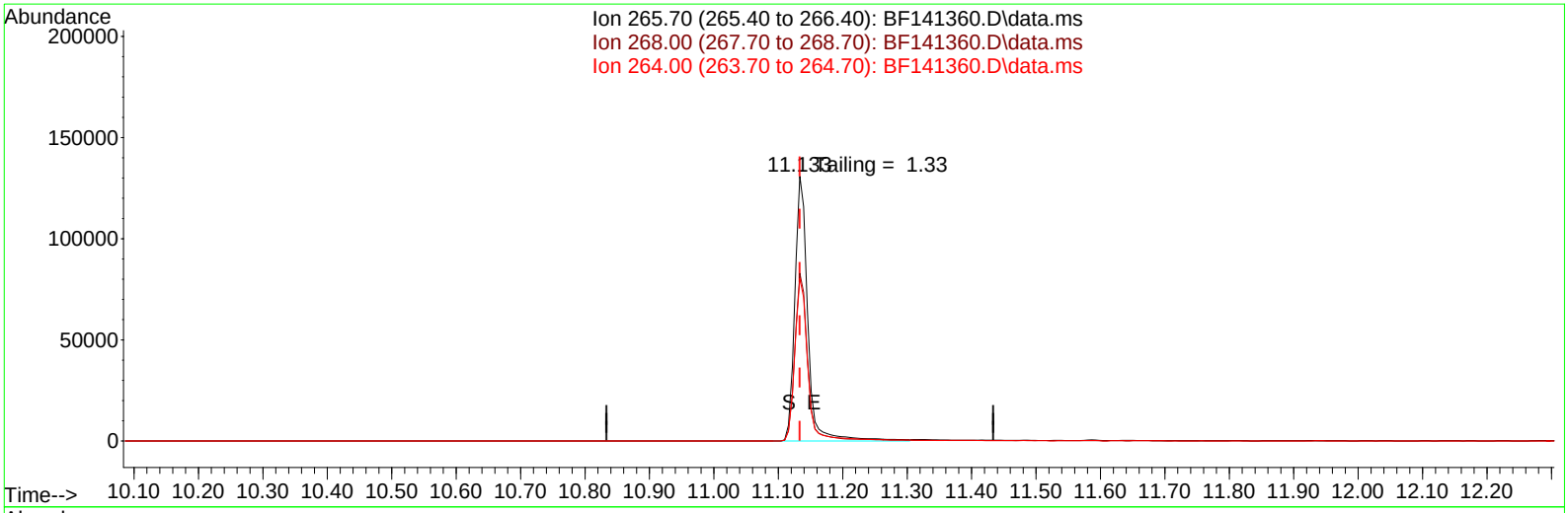
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.2	63285	PASS
68	69	0.00	2	1.7	900	PASS
69	198	0.00	100	35.5	51895	PASS
70	69	0.00	2	0.7	361	PASS
127	198	10	80	47.9	70147	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	146336	PASS
199	198	5	9	6.6	9686	PASS
275	198	10	60	25.7	37640	PASS
365	198	1	100	3.2	4754	PASS
441	198	0.01	100	12.3	18072	PASS
442	442	50	100	100.0	113157	PASS
443	442	15	24	18.6	21030	PASS

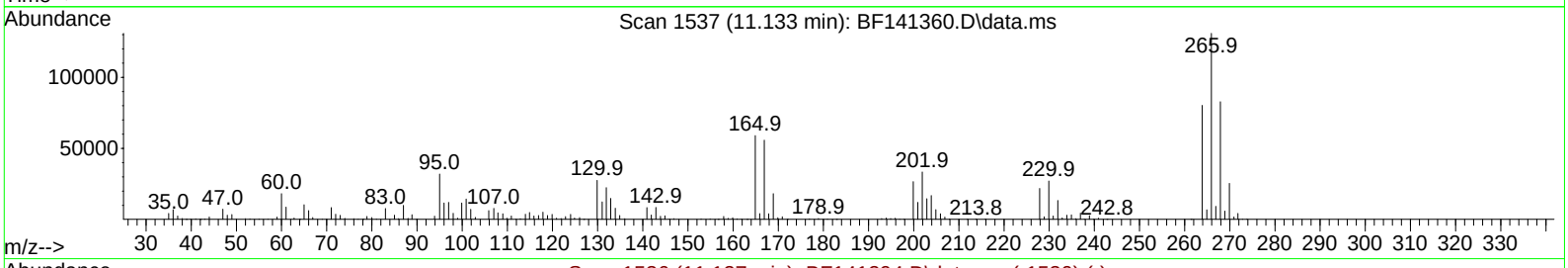
Sample Results: **BF141360.D**

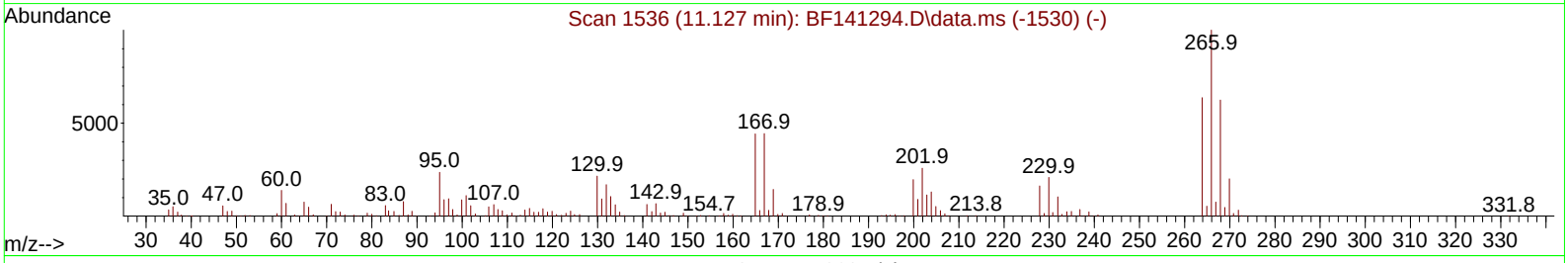
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141360.D
Acq On : 03 Feb 2025 09:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 03 12:16:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141360.D\data.ms

(70) Pentachlorophenol (C)

11.133min (-0.000) 6278.82 ng

response 185394

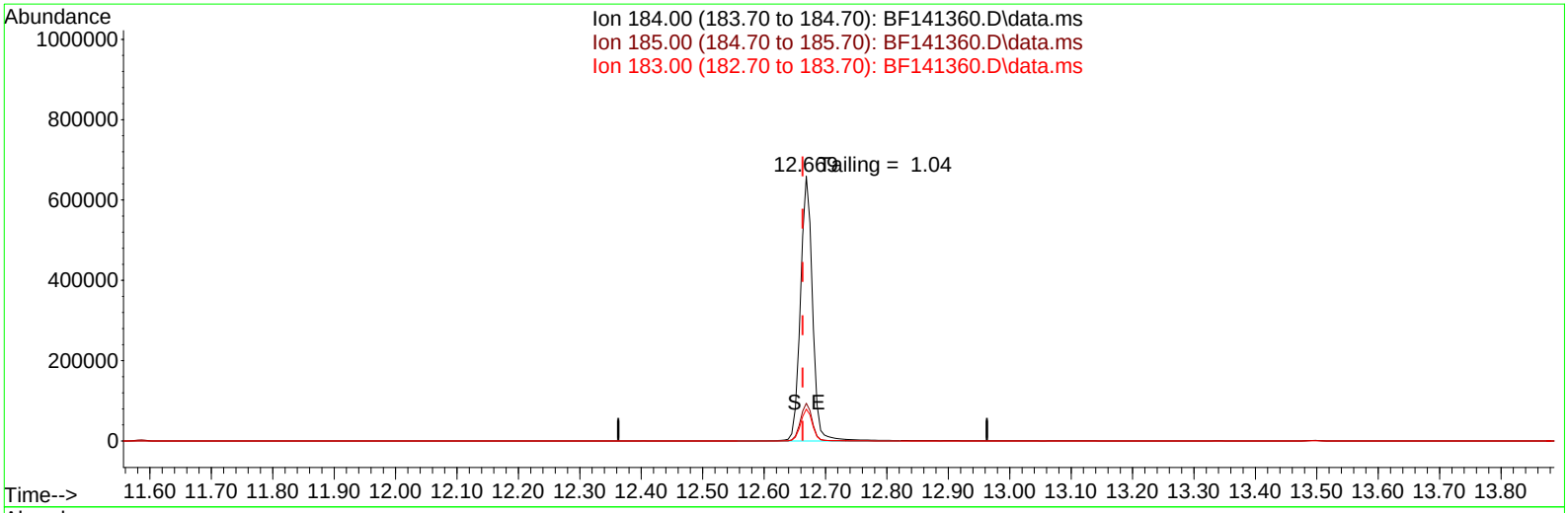
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	63.32
264.00	63.70	61.35
0.00	0.00	0.00

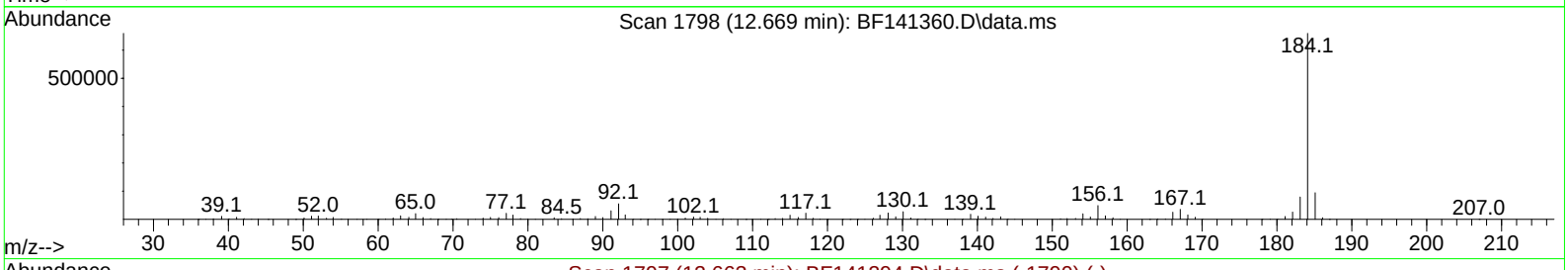
Sample Results: **BF141360.D**

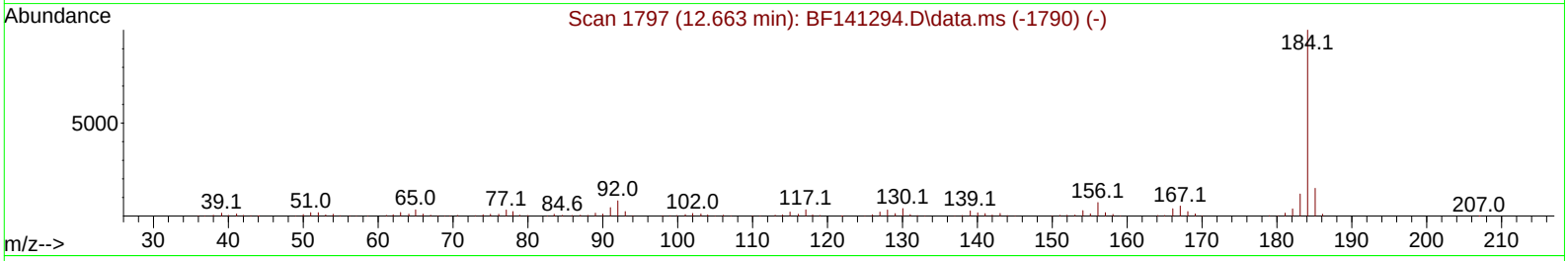
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141360.D
Acq On : 03 Feb 2025 09:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 03 12:16:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141360.D\data.ms

(77) Benzidine

12.669min (+ 0.006) 7483.96 ng

response 909791

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.28
183.00	11.90	12.04
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/3/2025	BNA_F	BF141360.D
Compound Name	**Response**	**Retention Time**
DDT	493977	13.498
DDD	9683	13.221
DDE	491	12.857
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
10174	504151	2.02

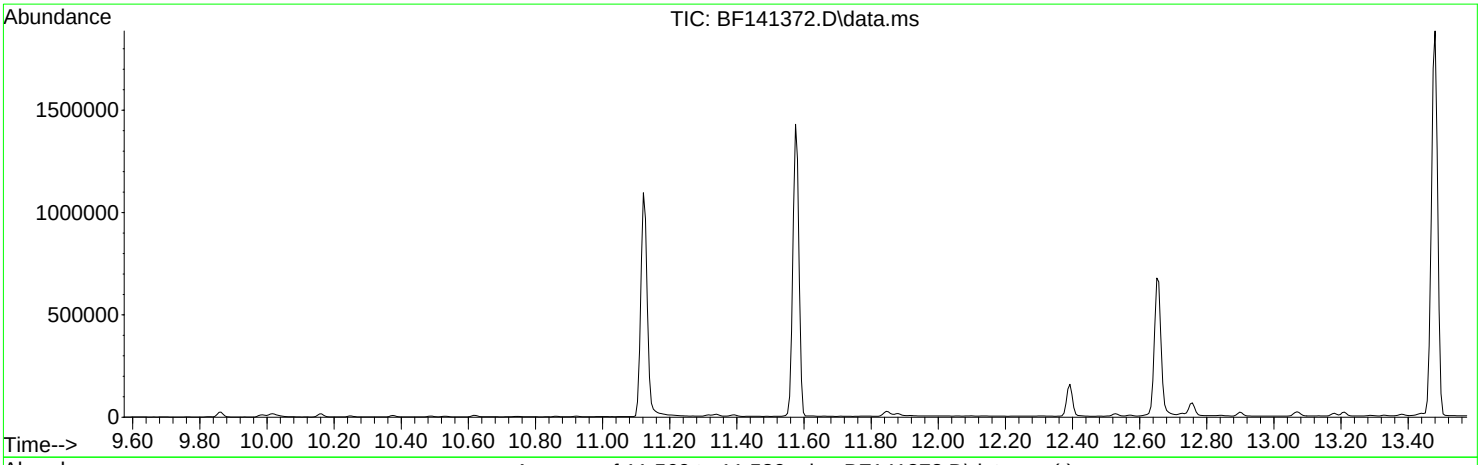
Sample Results: **BF141372.D**

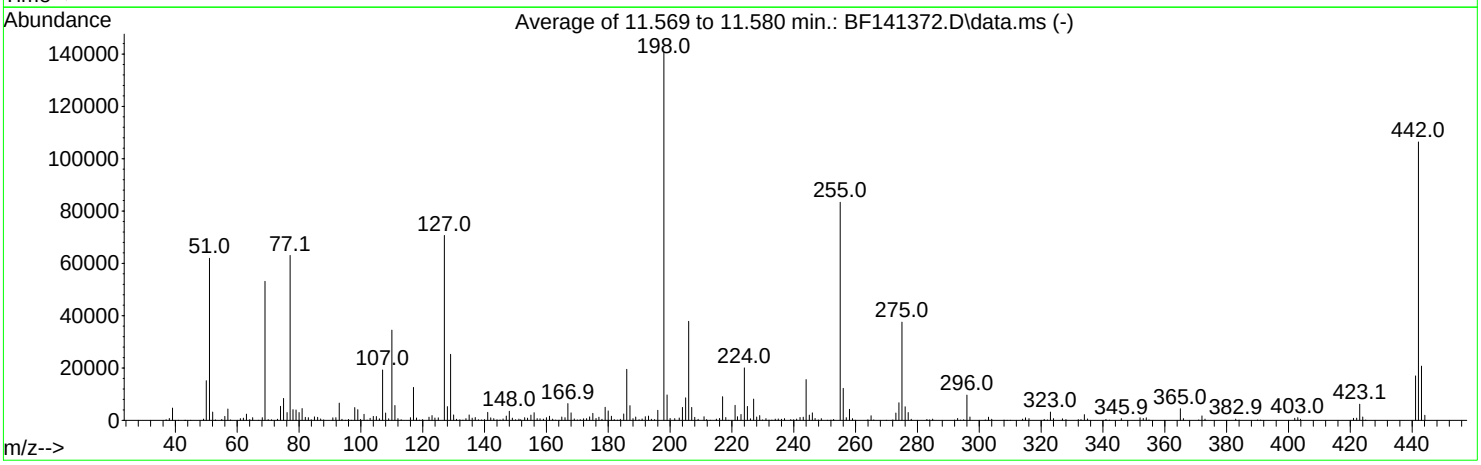
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141372.D
Acq On : 03 Feb 2025 16:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025





AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

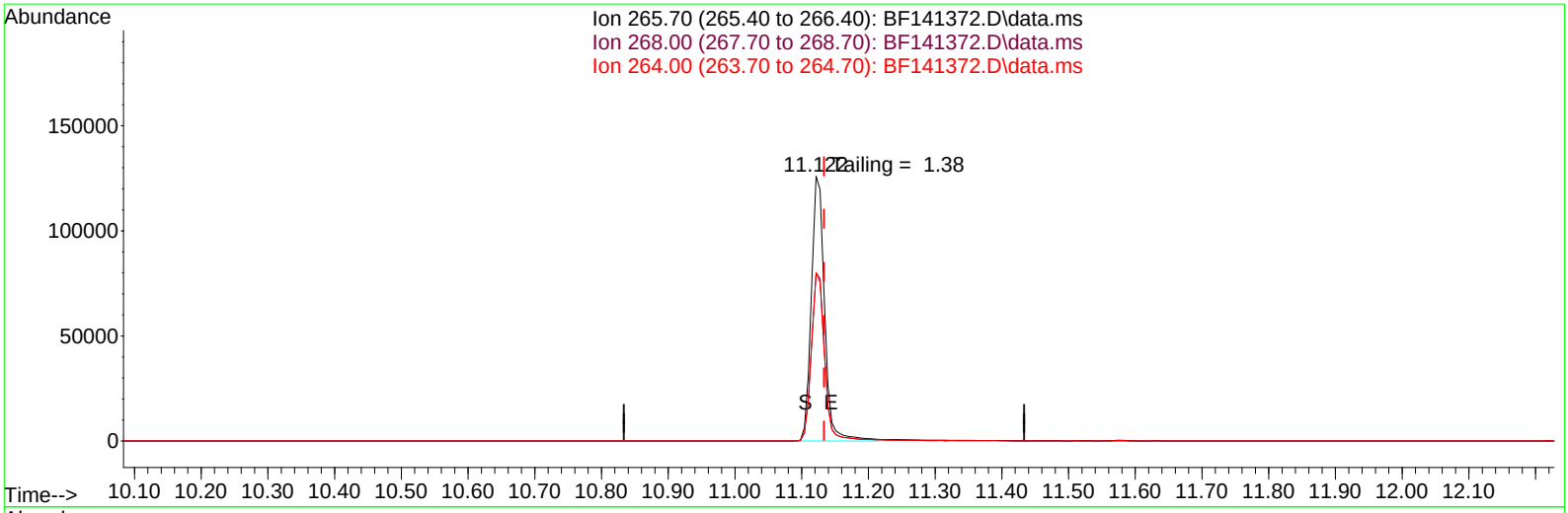
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.1	61981	PASS
68	69	0.00	2	2.0	1060	PASS
69	198	0.00	100	37.8	53141	PASS
70	69	0.00	2	0.6	326	PASS
127	198	10	80	50.3	70667	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	140589	PASS
199	198	5	9	6.9	9756	PASS
275	198	10	60	26.7	37523	PASS
365	198	1	100	3.2	4469	PASS
441	198	0.01	100	12.1	17032	PASS
442	442	50	100	100.0	106389	PASS
443	442	15	24	19.5	20710	PASS

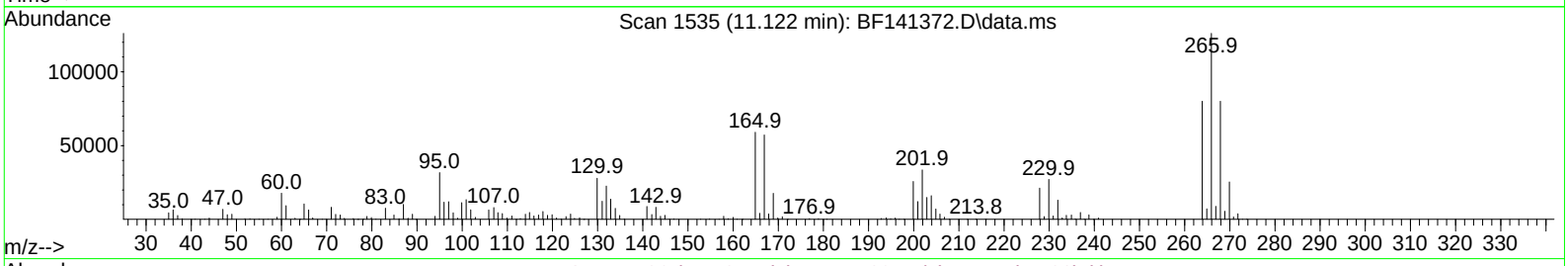
Sample Results: **BF141372.D**

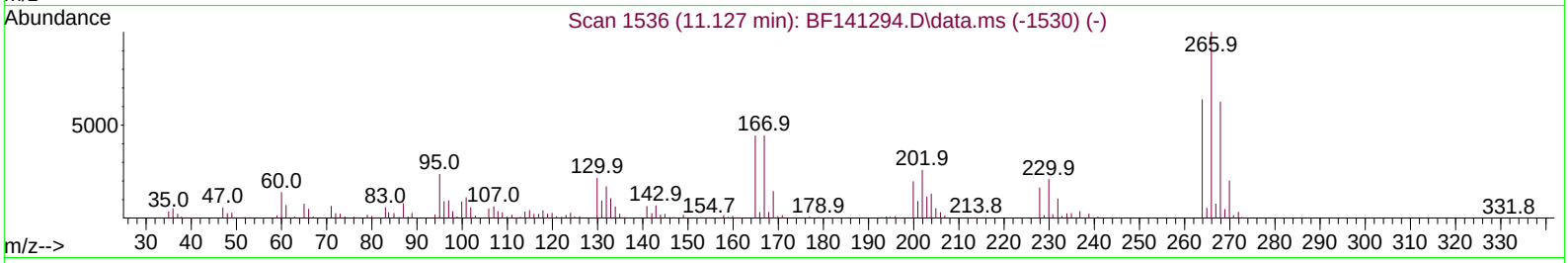
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141372.D
Acq On : 03 Feb 2025 16:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 04 05:08:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141372.D\data.ms

(70) Pentachlorophenol (C)

11.122min (-0.012) 6372.12 ng

response 175387

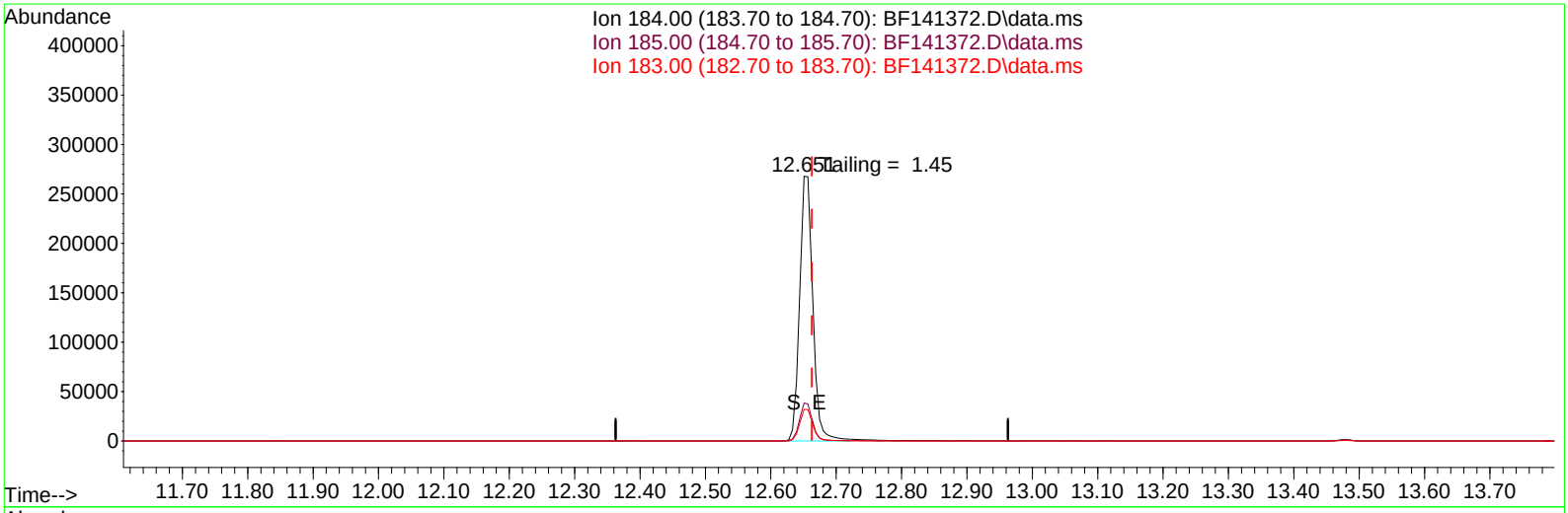
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	63.54
264.00	63.70	63.51
0.00	0.00	0.00

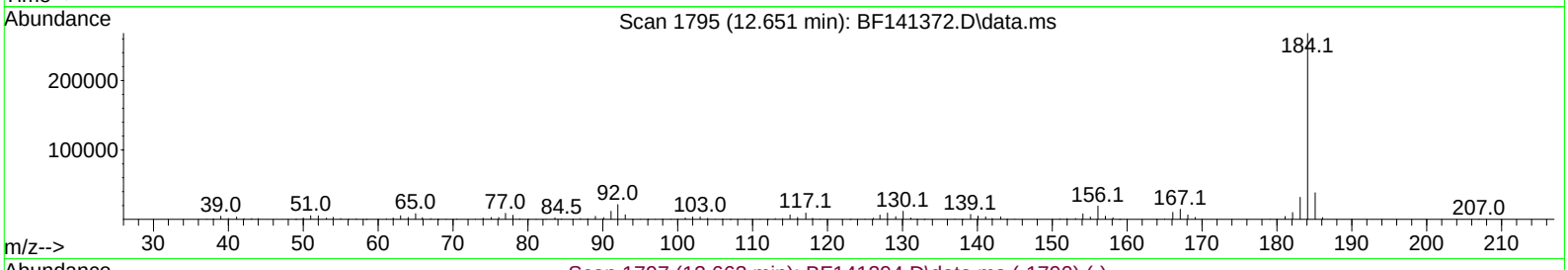
Sample Results: **BF141372.D**

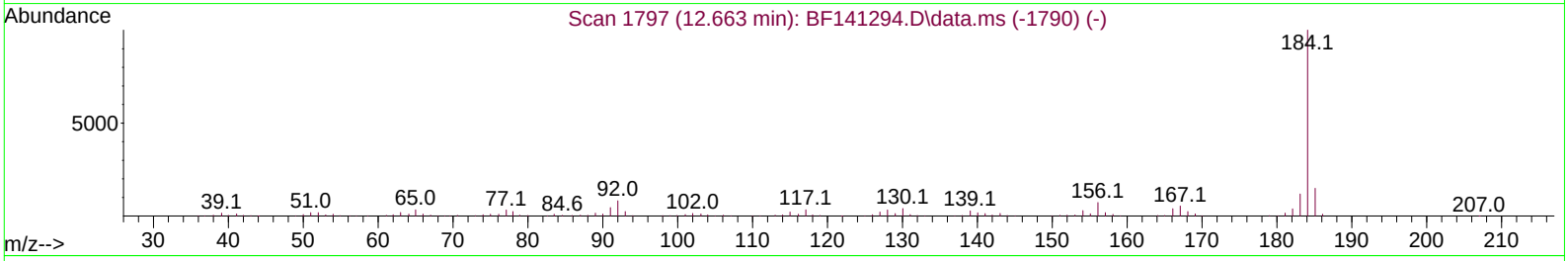
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141372.D
Acq On : 03 Feb 2025 16:43
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 04 05:08:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141372.D\data.ms

(77) Benzidine

12.651min (-0.012) 4251.31 ng

response 379432

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.36
183.00	11.90	11.93
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/3/2025	BNA_F	BF141372.D
Compound Name	**Response**	**Retention Time**
DDT	484680	13.48
DDD	8749	13.21
DDE	790	12.845
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9539	494219	1.93

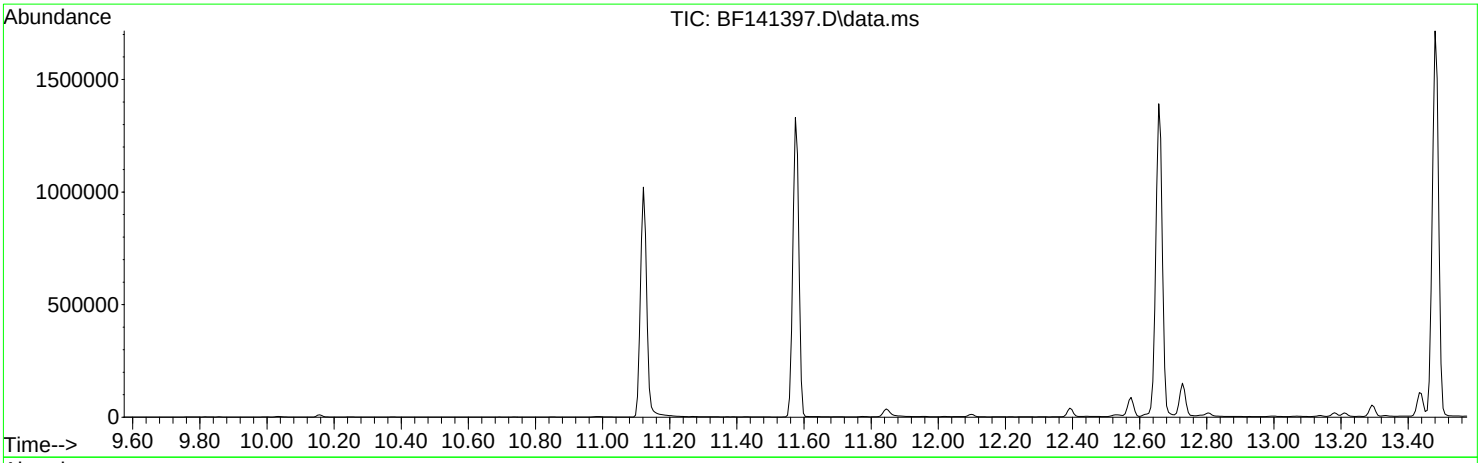
Sample Results: **BF141397.D**

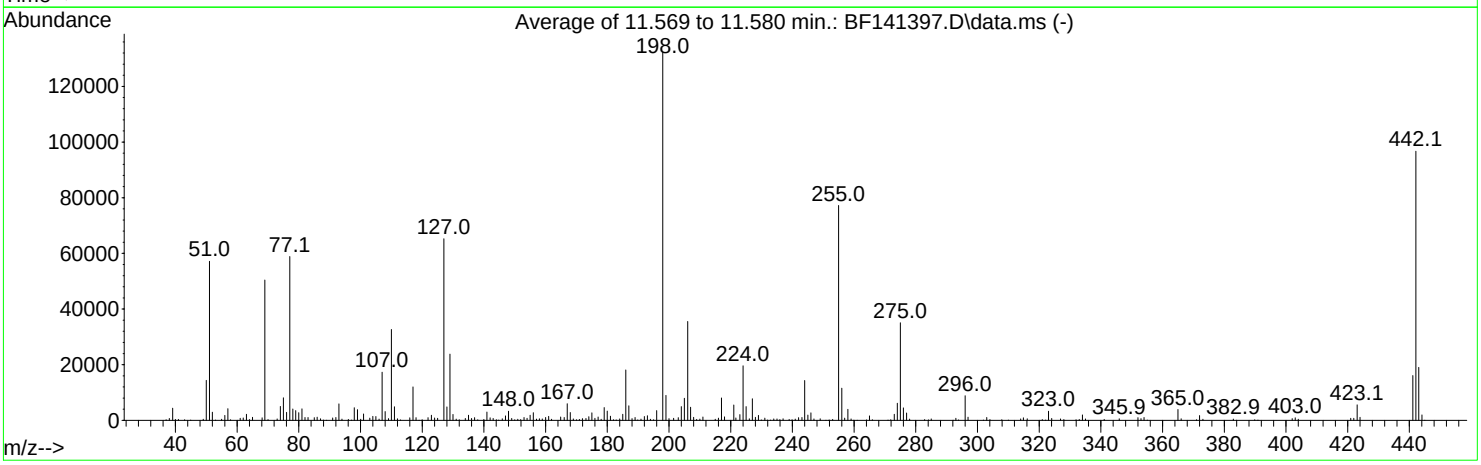
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141397.D
Acq On : 04 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025





AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

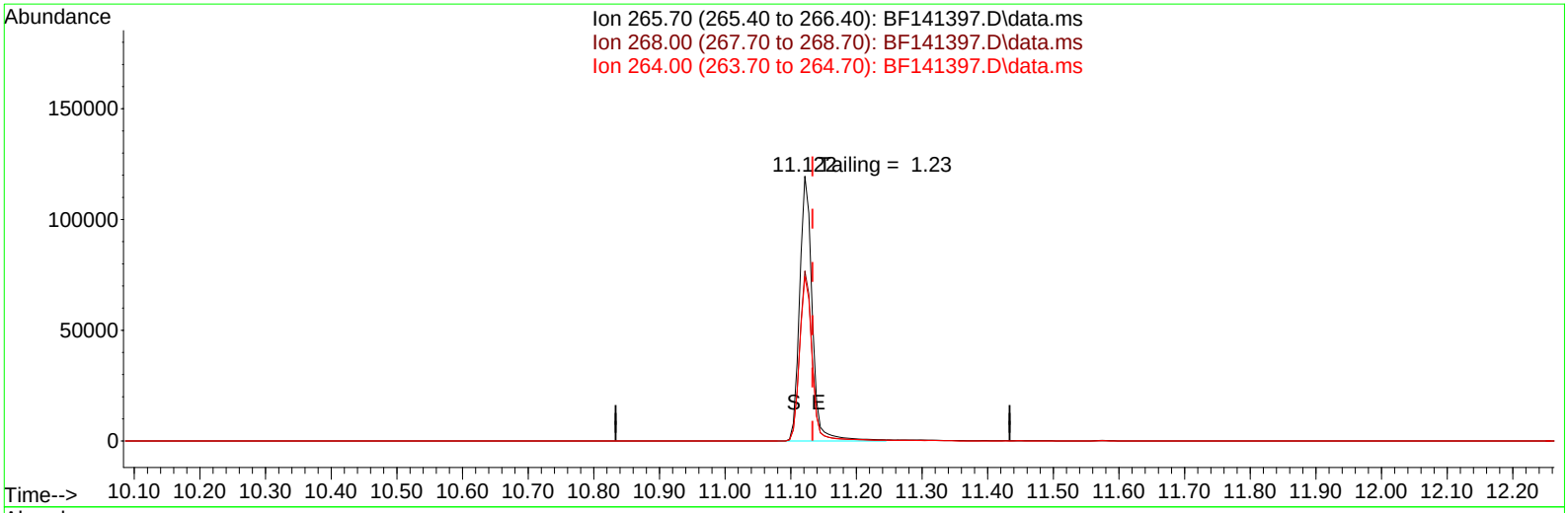
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	43.3	57171	PASS
68	69	0.00	2	1.9	947	PASS
69	198	0.00	100	38.1	50408	PASS
70	69	0.00	2	0.6	288	PASS
127	198	10	80	49.4	65259	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	132187	PASS
199	198	5	9	6.8	8986	PASS
275	198	10	60	26.5	35069	PASS
365	198	1	100	3.0	3931	PASS
441	198	0.01	100	12.2	16076	PASS
442	442	50	100	100.0	96717	PASS
443	442	15	24	19.7	19012	PASS

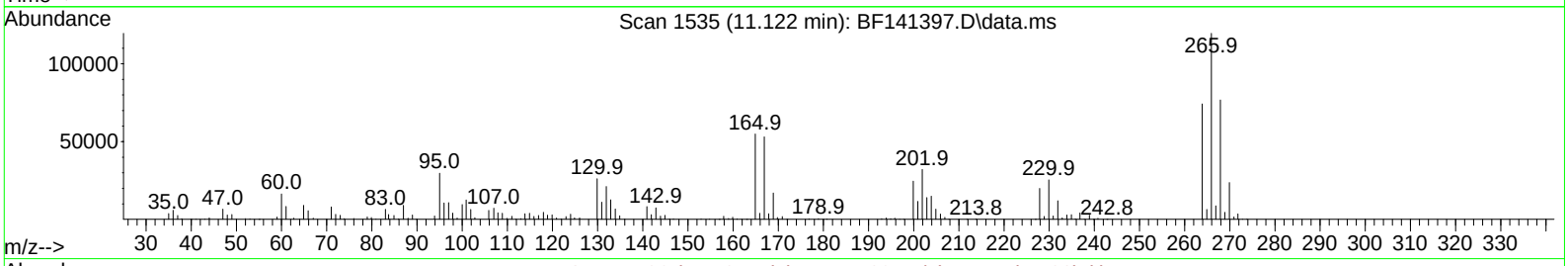
Sample Results: **BF141397.D**

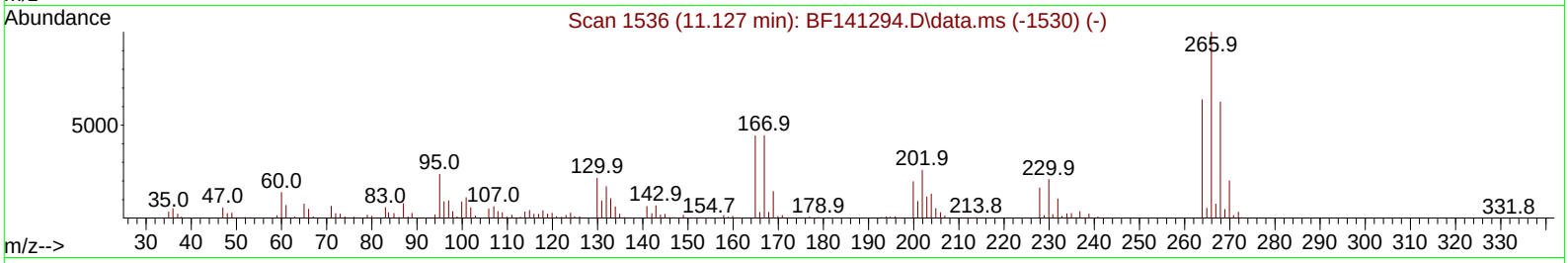
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141397.D
Acq On : 04 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 04 11:33:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141397.D\data.ms

(70) Pentachlorophenol (C)

11.122min (-0.012) 45312.00 ng

response 160702

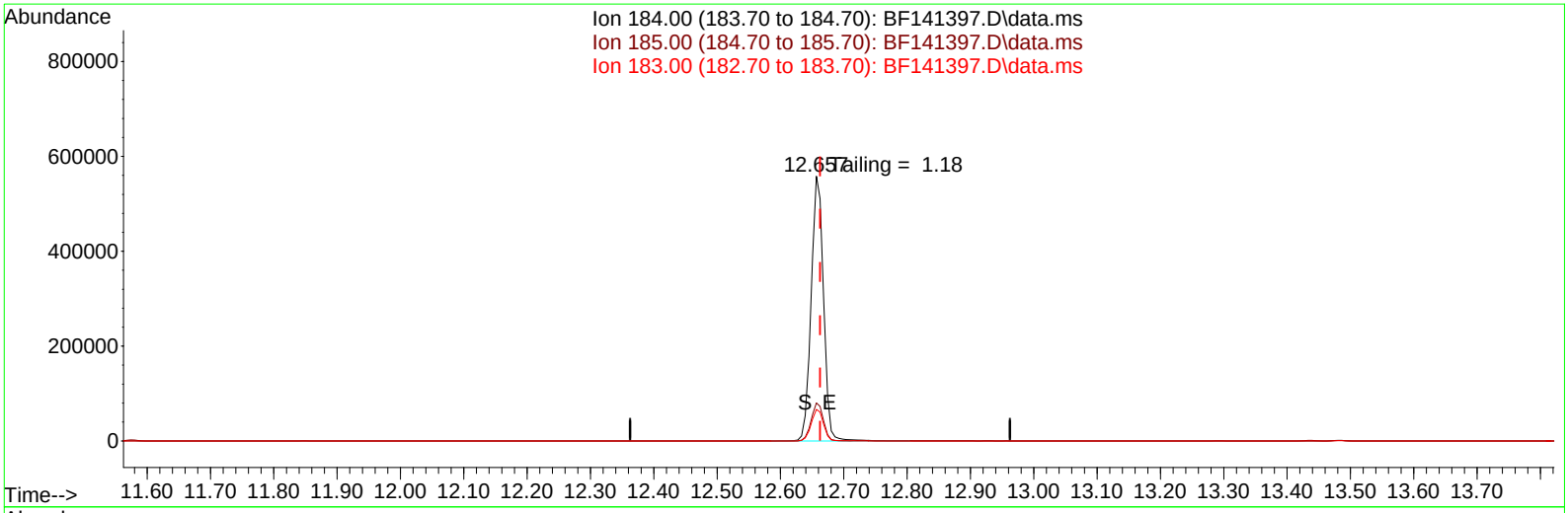
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	64.23
264.00	63.70	62.09
0.00	0.00	0.00

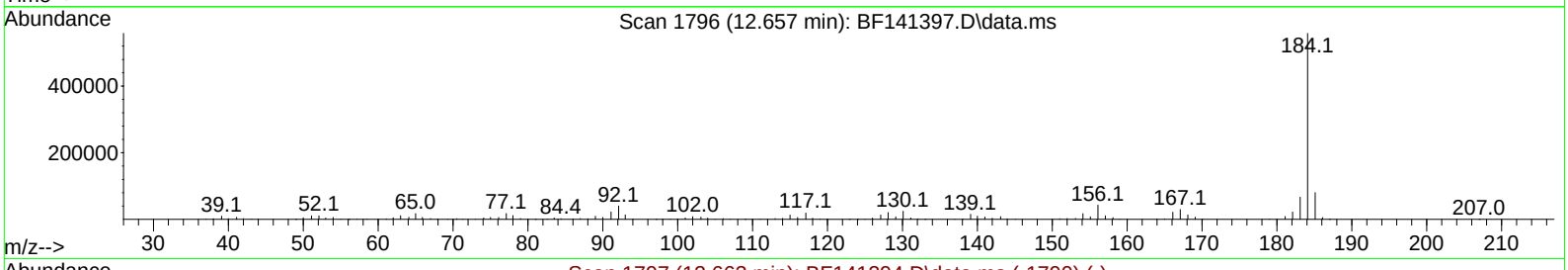
Sample Results: **BF141397.D**

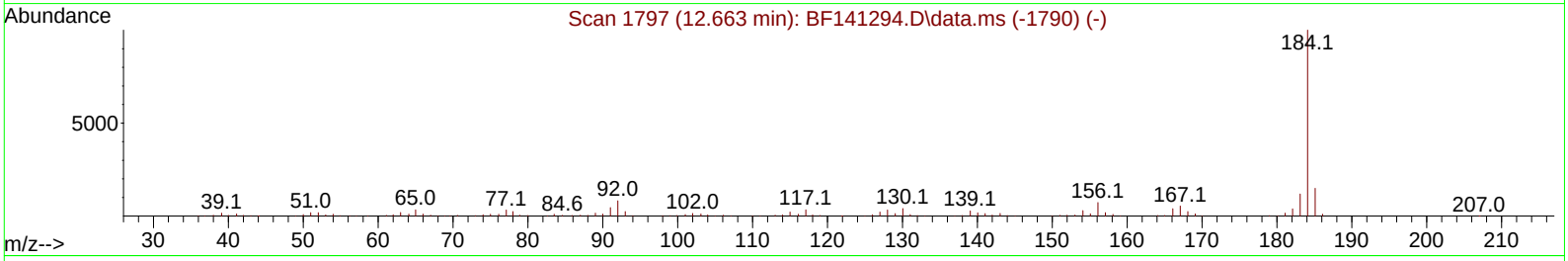
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141397.D
Acq On : 04 Feb 2025 10:16
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 04 11:33:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration







TIC: BF141397.D\data.ms

(77) Benzidine

12.657min (-0.006) 113140.91 ng

response 761695

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.38
183.00	11.90	11.93
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/4/2025	BNA_F	BF141397.D
Compound Name	**Response**	**Retention Time**
DDT	430190	13.48
DDD	8939	13.18
DDE	241	12.845
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
9180	439370	2.09

Raw Data: **BF141362.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166426BL	SDG No.:	Q1235
Lab Sample ID:	PB166426BL	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141362.D	1	01/31/25 10:29	02/03/25 11:51	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	5.00	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	U	0.84	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	1.20	10.0	ug/L
67-72-1	Hexachloroethane	5.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	159		10 - 139	106%	SPK: 150
13127-88-3	Phenol-d6	143		10 - 134	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	103		49 - 133	103%	SPK: 100
321-60-8	2-Fluorobiphenyl	100		52 - 132	100%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		44 - 137	106%	SPK: 150
1718-51-0	Terphenyl-d14	84.0		48 - 125	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	87300	6.793			
1146-65-2	Naphthalene-d8	348000	8.075			
15067-26-2	Acenaphthene-d10	192000	9.828			
1517-22-2	Phenanthrene-d10	337000	11.316			
1719-03-5	Chrysene-d12	286000	13.957			
1520-96-3	Perylene-d12	281000	15.421			

Raw Data: **BF141362.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166426BL	SDG No.:	Q1235
Lab Sample ID:	PB166426BL	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141362.D	1	01/31/25 10:29	02/03/25 11:51	PB166426

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

Sample Results: **BF141362.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141362.D
Acq On : 03 Feb 2025 11:51
Operator : RC/JU
Sample : PB166426BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Quant Time: Feb 03 12:18:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

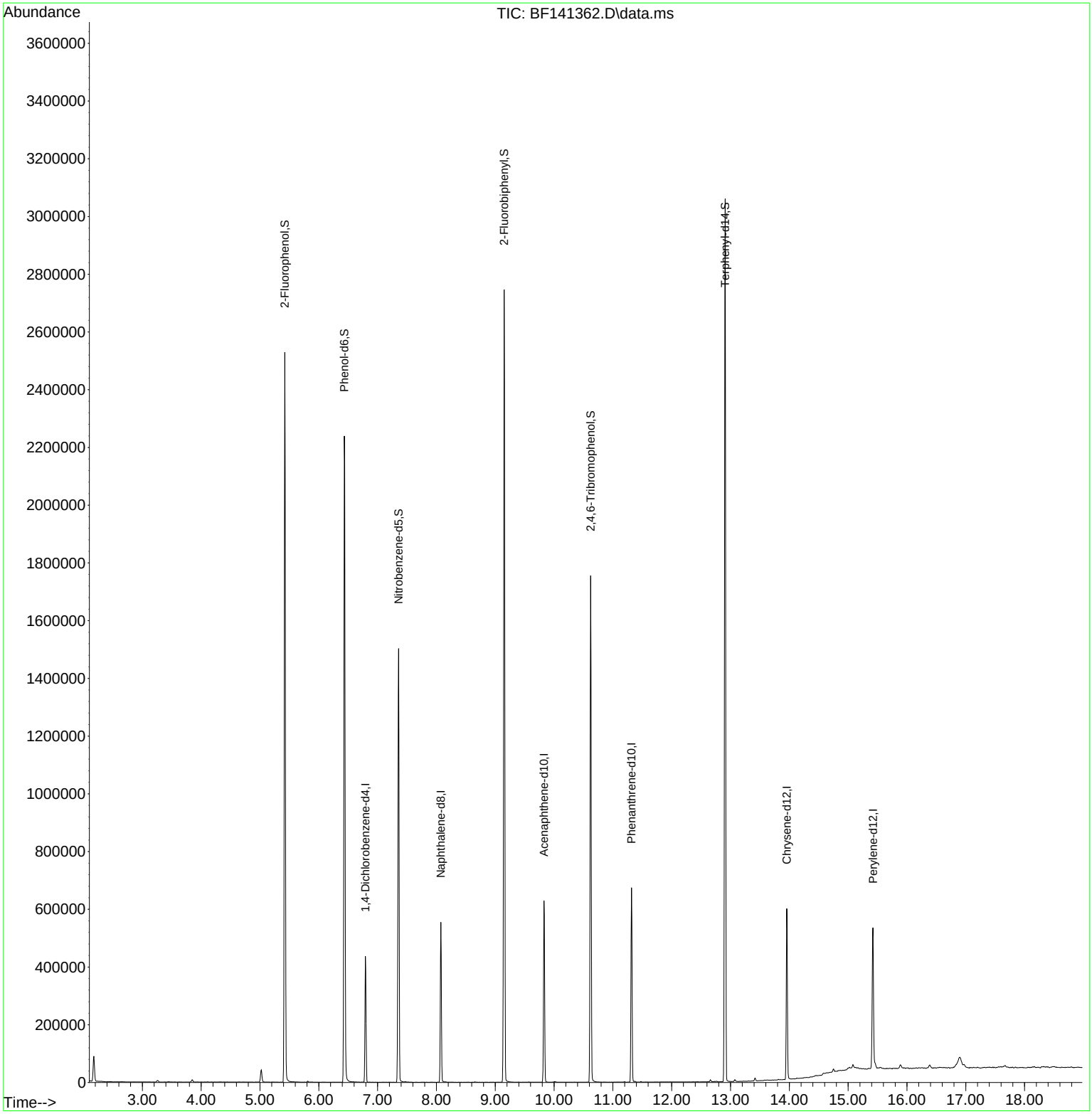
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	87343	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	347606	20.000	ng	-0.01
39) Acenaphthene-d10	9.828	164	191809	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	337058	20.000	ng	-0.01
76) Chrysene-d12	13.957	240	285942	20.000	ng	-0.02
86) Perylene-d12	15.421	264	281061	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	905850	159.219	ng	0.01
7) Phenol-d6	6.434	99	1034467	142.930	ng	0.00
23) Nitrobenzene-d5	7.357	82	679449	103.042	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	279143	158.744	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	1249119	100.237	ng	-0.01
79) Terphenyl-d14	12.910	244	1557840	84.020	ng	0.00
Target Compounds						Qvalue

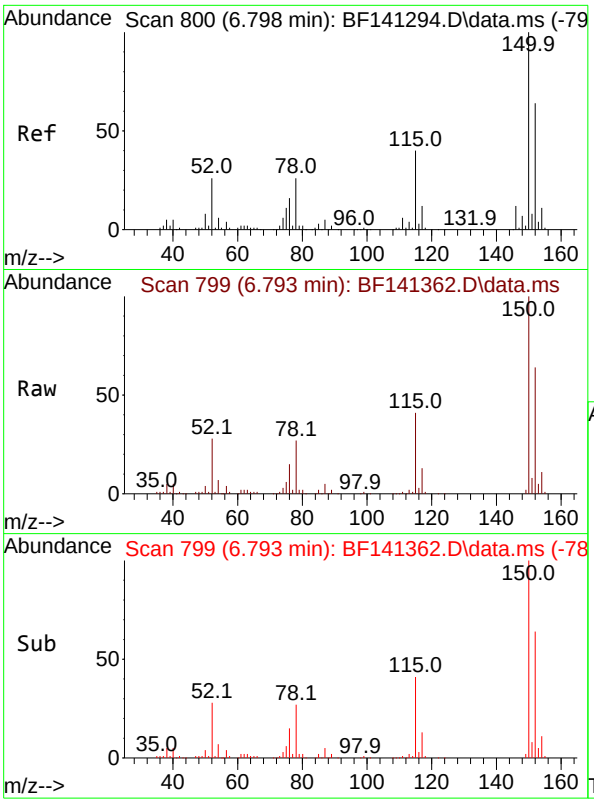
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020325\
Data File : BF141362.D
Acq On : 03 Feb 2025 11:51
Operator : RC/JU
Sample : PB166426BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Quant Time: Feb 03 12:18:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



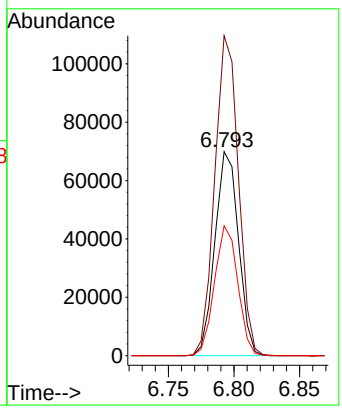


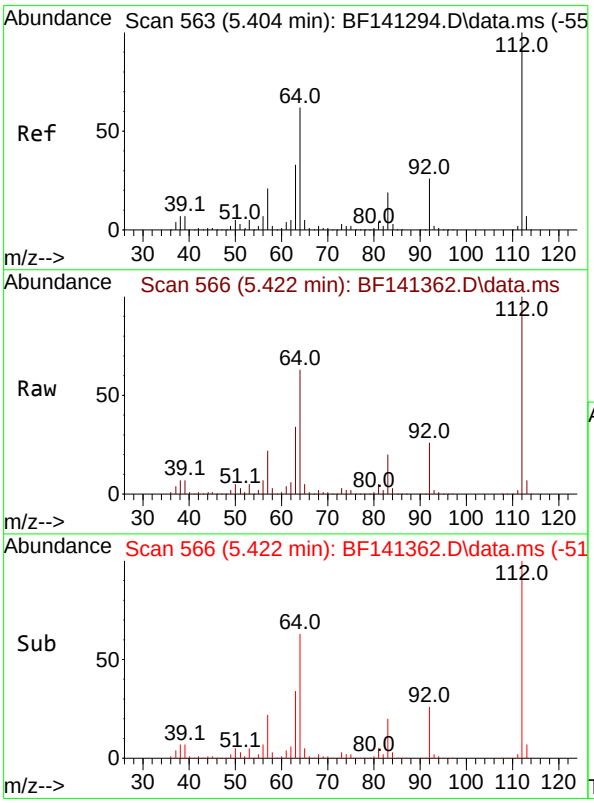
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 7
Delta R.T. -0.011 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion:152 Resp: 87343

Ion	Ratio	Lower	Upper
152	100		
150	156.9	125.9	188.9
115	63.7	49.7	74.5

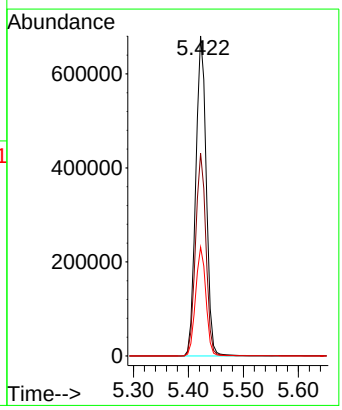


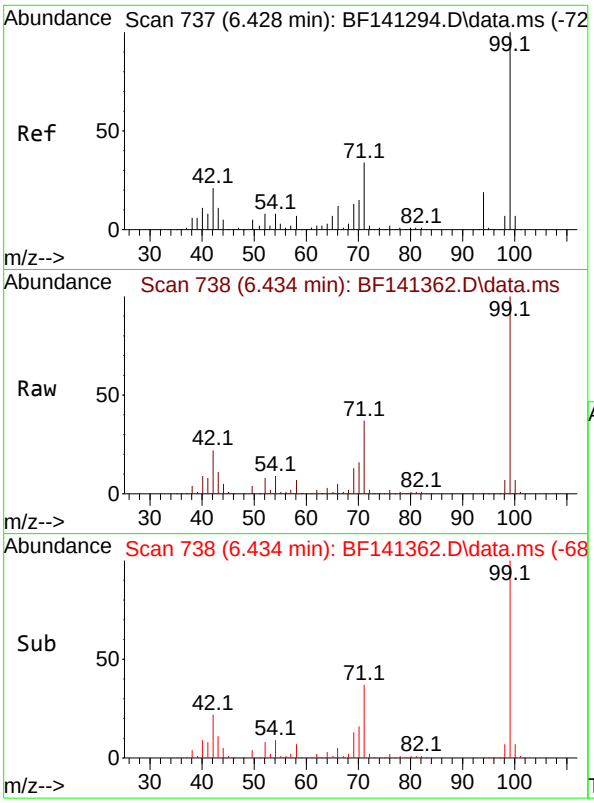


#5
2-Fluorophenol
Concen: 159.219 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:112 Resp: 905850

Ion	Ratio	Lower	Upper
112	100		
64	63.3	49.8	74.8
63	34.0	26.1	39.1



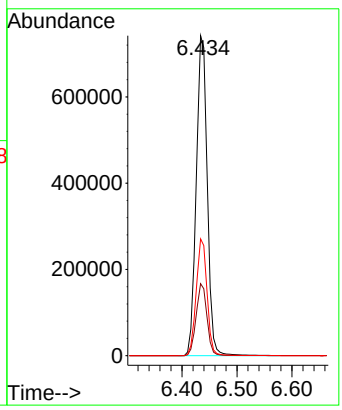


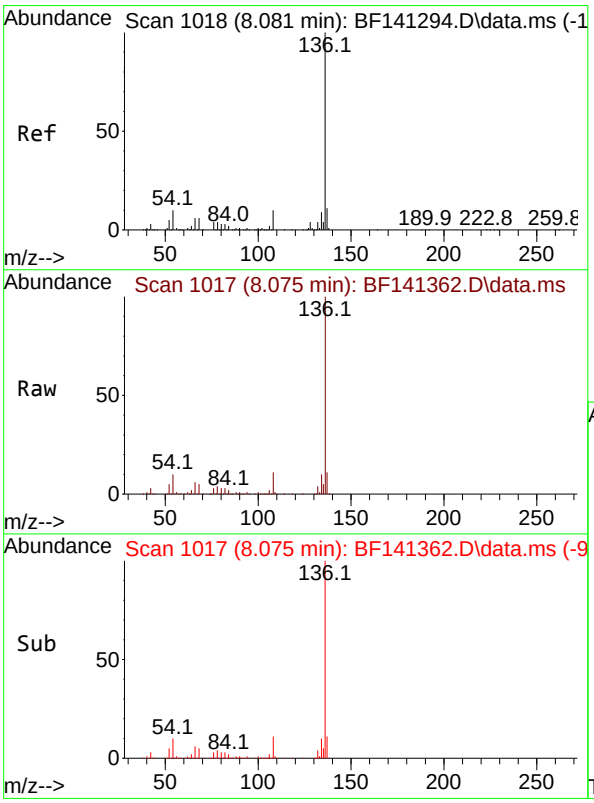
#7
Phenol-d6
Concen: 142.930 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion: 99 Resp: 1034467

Ion	Ratio	Lower	Upper
99	100		
42	22.5	17.1	25.7
71	36.5	26.9	40.3

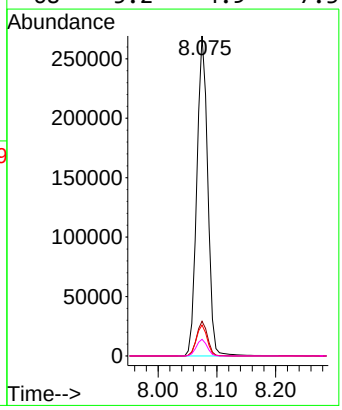


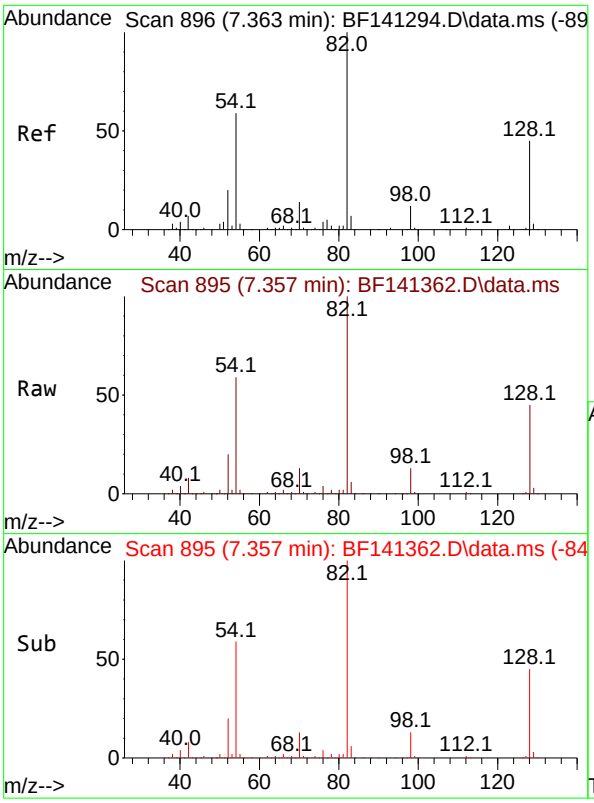


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:136 Resp: 347606

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	9.6	7.8	11.8
68	5.2	4.9	7.3



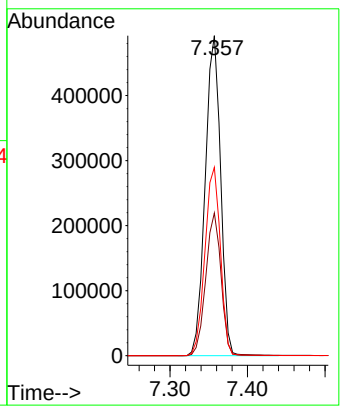


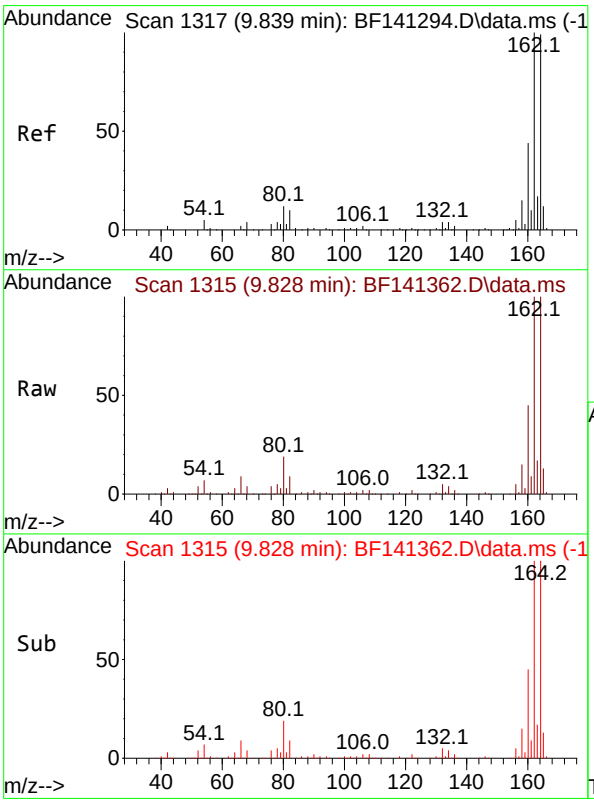
#23
Nitrobenzene-d5
Concen: 103.042 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion: 82 Resp: 679449

Ion	Ratio	Lower	Upper
82	100		
128	44.6	35.7	53.5
54	58.9	47.1	70.7

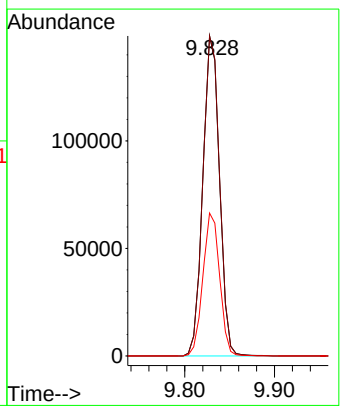


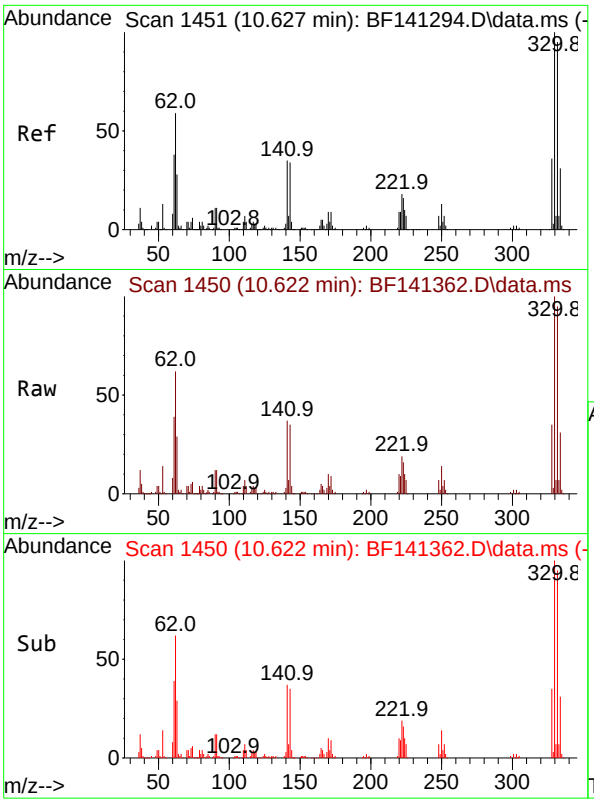


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:164 Resp: 191809

Ion	Ratio	Lower	Upper
164	100		
162	100.0	80.6	121.0
160	44.7	35.8	53.6



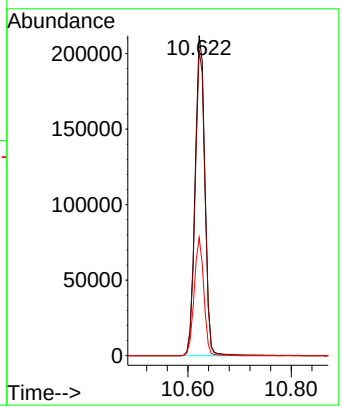


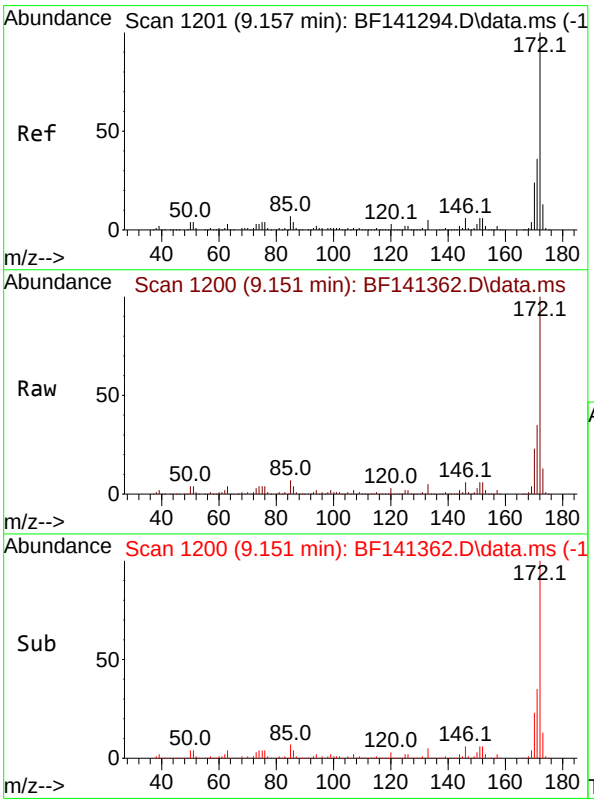
#42
2,4,6-Tribromophenol
Concen: 158.744 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion:330 Resp: 279143

Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.1	114.1
141	36.2	28.8	43.2

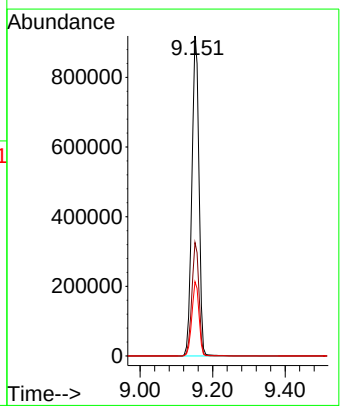


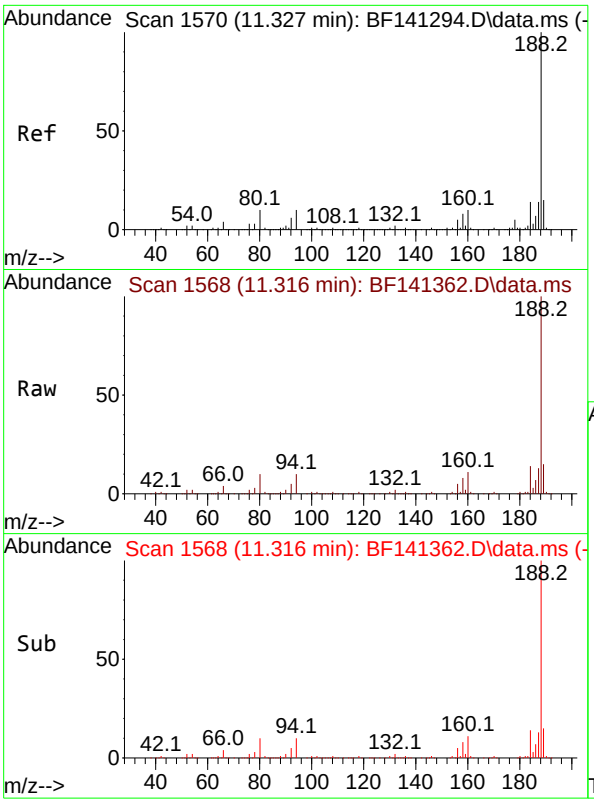


#45
2-Fluorobiphenyl
Concen: 100.237 ng
RT: 9.151 min Scan# 1200
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:172 Resp: 1249119

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.2	19.0	28.6



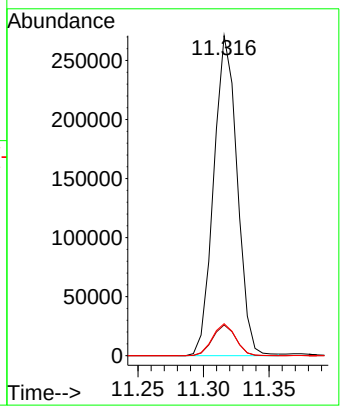


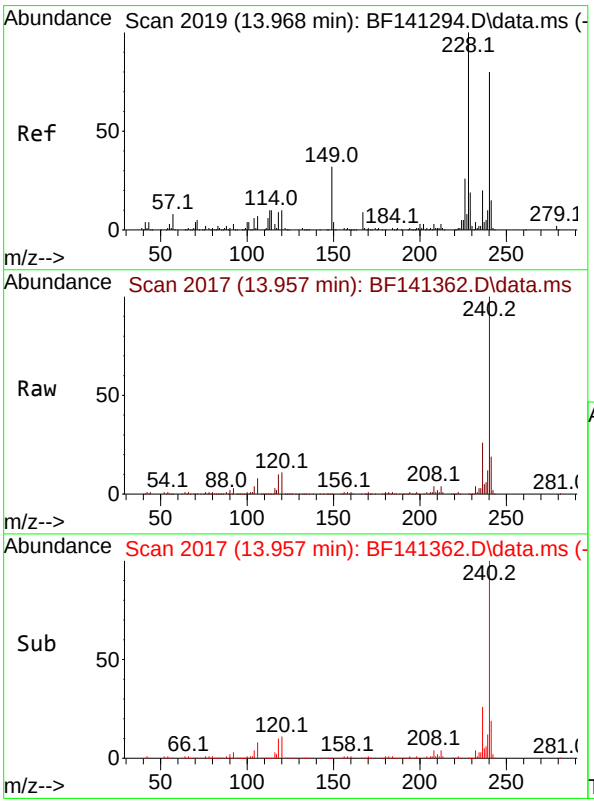
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion:188 Resp: 337058

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.8	11.6
80	10.0	8.2	12.4

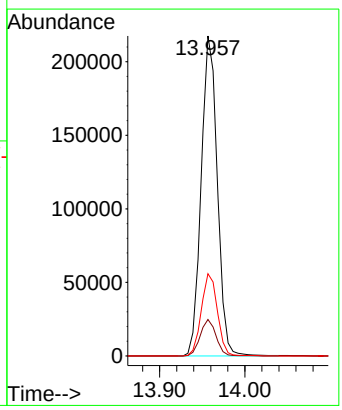


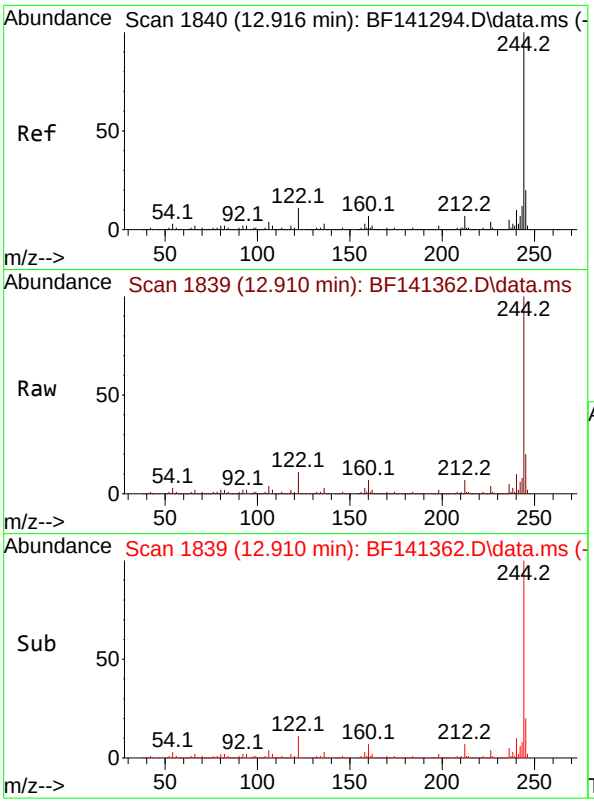


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.018 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:240 Resp: 285942

Ion	Ratio	Lower	Upper
240	100		
120	11.4	10.0	15.0
236	25.7	19.7	29.5



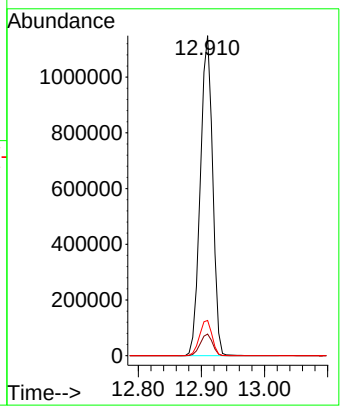


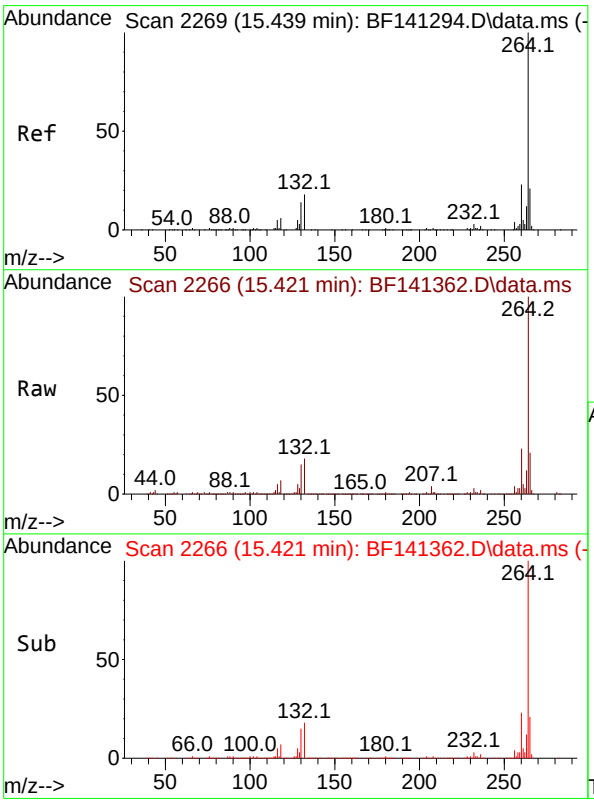
#79
Terphenyl-d14
Concen: 84.020 ng
RT: 12.910 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Instrument :
BNA_F
ClientSampleId :
PB166426BL

Tgt Ion:244 Resp: 1557840

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	11.0	8.8	13.2

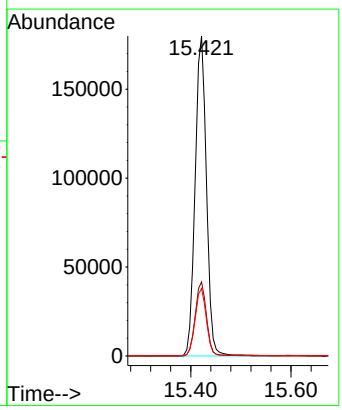




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141362.D
Acq: 03 Feb 2025 11:51

Tgt Ion:264 Resp: 281061

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	27.8
265	21.0	16.7	25.1



Raw Data: **BF141407.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166426BS	SDG No.:	Q1235
Lab Sample ID:	PB166426BS	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141407.D	1	01/31/25 10:29	02/04/25 14:39	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	39.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	45.5		0.84	5.00	ug/L
95-48-7	2-Methylphenol	45.9		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	48.4		1.20	10.0	ug/L
67-72-1	Hexachloroethane	47.5		1.00	5.00	ug/L
98-95-3	Nitrobenzene	44.9		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	48.0		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	48.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.3		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	50.0		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	48.9		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	132		10 - 139	88%	SPK: 150
13127-88-3	Phenol-d6	127		10 - 134	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		49 - 133	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.5		52 - 132	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	154		44 - 137	102%	SPK: 150
1718-51-0	Terphenyl-d14	89.9		48 - 125	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82700	6.787			
1146-65-2	Naphthalene-d8	331000	8.075			
15067-26-2	Acenaphthene-d10	181000	9.827			
1517-22-2	Phenanthrene-d10	313000	11.316			
1719-03-5	Chrysene-d12	234000	13.963			
1520-96-3	Perylene-d12	201000	15.421			

Raw Data: **BF141407.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166426BS	SDG No.:	Q1235
Lab Sample ID:	PB166426BS	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141407.D	1	01/31/25 10:29	02/04/25 14:39	PB166426

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\BF020425\
Data File : BF141407.D
Acq On : 04 Feb 2025 14:39
Operator : RC/JU
Sample : PB166426BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Quant Time: Feb 04 15:34:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.787	152	82681	20.000	ng		-0.02
21) Naphthalene-d8	8.075	136	331184	20.000	ng		#-0.01
39) Acenaphthene-d10	9.827	164	180993	20.000	ng		-0.01
64) Phenanthrene-d10	11.316	188	312610	20.000	ng		-0.01
76) Chrysene-d12	13.963	240	234119	20.000	ng		-0.01
86) Perylene-d12	15.421	264	200536	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.416	112	713019	132.392	ng		0.00
7) Phenol-d6	6.434	99	872692	127.377	ng		0.00
23) Nitrobenzene-d5	7.357	82	579317	92.213	ng		-0.01
42) 2,4,6-Tribromophenol	10.622	330	254875	153.605	ng		-0.01
45) 2-Fluorobiphenyl	9.151	172	1099591	93.511	ng		-0.01
79) Terphenyl-d14	12.904	244	1365459	89.945	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	2.551	88	94708	39.985	ng		98
3) Pyridine	3.275	79	226080	39.615	ng		97
4) n-Nitrosodimethylamine	3.228	42	163446	50.135	ng		89
6) Aniline	6.451	93	217287	37.466	ng	#	10
8) 2-Chlorophenol	6.581	128	278040	48.166	ng		95
9) Benzaldehyde	6.334	77	25465	6.417	ng		98
10) Phenol	6.445	94	326970	45.020	ng	#	69
11) bis(2-Chloroethyl)ether	6.528	93	253314	45.490	ng		98
12) 1,3-Dichlorobenzene	6.728	146	289320	45.456	ng		99
13) 1,4-Dichlorobenzene	6.804	146	290732	45.469	ng		99
14) 1,2-Dichlorobenzene	6.957	146	278667	46.543	ng		99
15) Benzyl Alcohol	6.934	79	243779	52.066	ng		97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	425235	43.914	ng		56
17) 2-Methylphenol	7.057	107	215340	45.900	ng	#	88
18) Hexachloroethane	7.298	117	112078	47.515	ng		99
19) n-Nitroso-di-n-propyla...	7.204	70	192355	47.250	ng		99
20) 3+4-Methylphenols	7.204	107	278667	48.376	ng		94
22) Acetophenone	7.198	105	387286	49.197	ng	#	97
24) Nitrobenzene	7.375	77	291997	44.851	ng		99
25) Isophorone	7.610	82	512208	47.166	ng		99
26) 2-Nitrophenol	7.686	139	149139	48.573	ng		96
27) 2,4-Dimethylphenol	7.734	122	214302m	54.835	ng		
28) bis(2-Chloroethoxy)met...	7.822	93	311809	45.013	ng		99
29) 2,4-Dichlorophenol	7.939	162	228705	47.802	ng		99
30) 1,2,4-Trichlorobenzene	8.016	180	242234	44.333	ng		100
31) Naphthalene	8.092	128	799068	45.673	ng		100
32) Benzoic acid	7.857	122	173870	48.396	ng		97
33) 4-Chloroaniline	8.145	127	111900	18.861	ng		99
34) Hexachlorobutadiene	8.210	225	153801	47.999	ng		99
35) Caprolactam	8.510	113	71389m	45.688	ng		
36) 4-Chloro-3-methylphenol	8.639	107	252782	49.256	ng		97
37) 2-Methylnaphthalene	8.786	142	524031	47.126	ng		99
38) 1-Methylnaphthalene	8.886	142	488613	44.732	ng		99
40) 1,2,4,5-Tetrachloroben...	8.951	216	244141	47.415	ng		98
41) Hexachlorocyclopentadiene	8.939	237	292771	192.529	ng		99
43) 2,4,6-Trichlorophenol	9.069	196	164492	48.807	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141407.D
Acq On : 04 Feb 2025 14:39
Operator : RC/JU
Sample : PB166426BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Quant Time: Feb 04 15:34:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

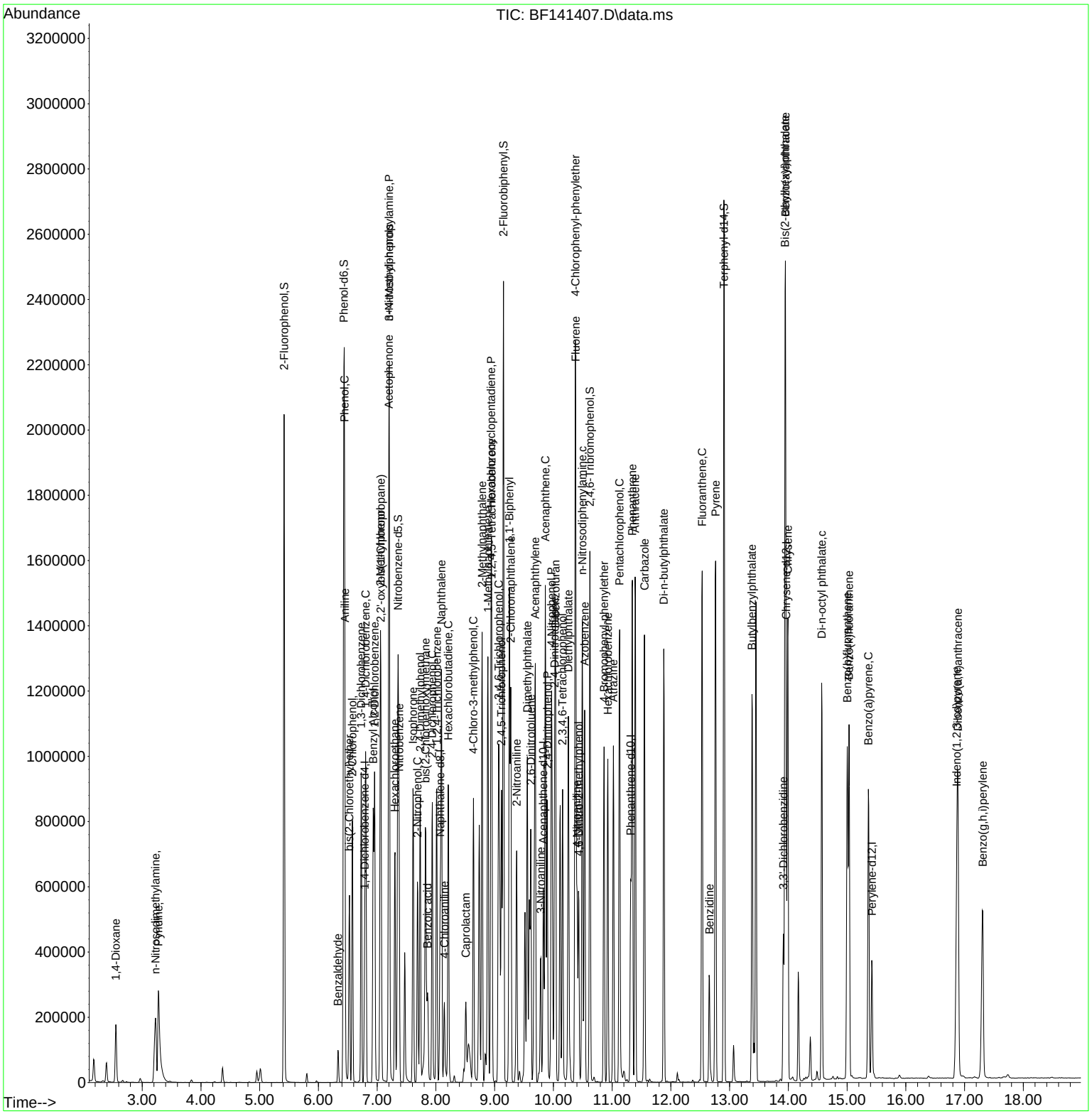
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	173420	47.278	ng	98
46) 1,1'-Biphenyl	9.251	154	655951	46.471	ng	99
47) 2-Chloronaphthalene	9.275	162	489548	44.496	ng	99
48) 2-Nitroaniline	9.375	65	170280	49.205	ng	97
49) Acenaphthylene	9.692	152	760954	49.410	ng	100
50) Dimethylphthalate	9.557	163	593755	48.572	ng	100
51) 2,6-Dinitrotoluene	9.616	165	132856	46.808	ng	98
52) Acenaphthene	9.863	154	591701m	53.779	ng	
53) 3-Nitroaniline	9.786	138	80709	29.013	ng	99
54) 2,4-Dinitrophenol	9.898	184	154693	117.244	ng	93
55) Dibenzofuran	10.039	168	700235	47.547	ng	97
56) 4-Nitrophenol	9.969	139	212195	104.299	ng	90
57) 2,4-Dinitrotoluene	10.022	165	183846	50.028	ng	94
58) Fluorene	10.380	166	560118	49.031	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	154775	53.634	ng	98
60) Diethylphthalate	10.257	149	586751	49.503	ng	99
61) 4-Chlorophenyl-phenyle...	10.374	204	268913	48.191	ng	97
62) 4-Nitroaniline	10.404	138	135954	49.710	ng	94
63) Azobenzene	10.533	77	564907	47.614	ng	98
65) 4,6-Dinitro-2-methylph...	10.433	198	109062	58.982	ng	96
66) n-Nitrosodiphenylamine	10.492	169	490366	48.499	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	169955	48.562	ng	99
68) Hexachlorobenzene	10.927	284	181362	48.853	ng	98
69) Atrazine	11.022	200	175099	51.796	ng	99
70) Pentachlorophenol	11.127	266	224331	103.193	ng	99
71) Phenanthrene	11.345	178	861852	51.288	ng	100
72) Anthracene	11.392	178	882833	53.619	ng	99
73) Carbazole	11.551	167	770620	52.783	ng	99
74) Di-n-butylphthalate	11.880	149	922589	52.143	ng	99
75) Fluoranthene	12.533	202	925902	55.804	ng	98
77) Benzidine	12.657	184	182119	24.265	ng	99
78) Pyrene	12.763	202	951626	42.345	ng	100
80) Butylbenzylphthalate	13.380	149	386308	49.204	ng	99
81) Benzo(a)anthracene	13.951	228	745476	46.144	ng	99
82) 3,3'-Dichlorobenzidine	13.915	252	128195	24.949	ng	99
83) Chrysene	13.992	228	722130	48.772	ng	99
84) Bis(2-ethylhexyl)phtha...	13.945	149	509487	51.156	ng	99
85) Di-n-octyl phthalate	14.568	149	801166	51.792	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	638218	49.309	ng	96
88) Benzo(b)fluoranthene	15.004	252	697768	55.316	ng	99
89) Benzo(k)fluoranthene	15.033	252	528168	47.265	ng	99
90) Benzo(a)pyrene	15.362	252	566504	53.145	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	511474	49.118	ng	98
92) Benzo(g,h,i)perylene	17.309	276	479740	44.307	ng	95

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

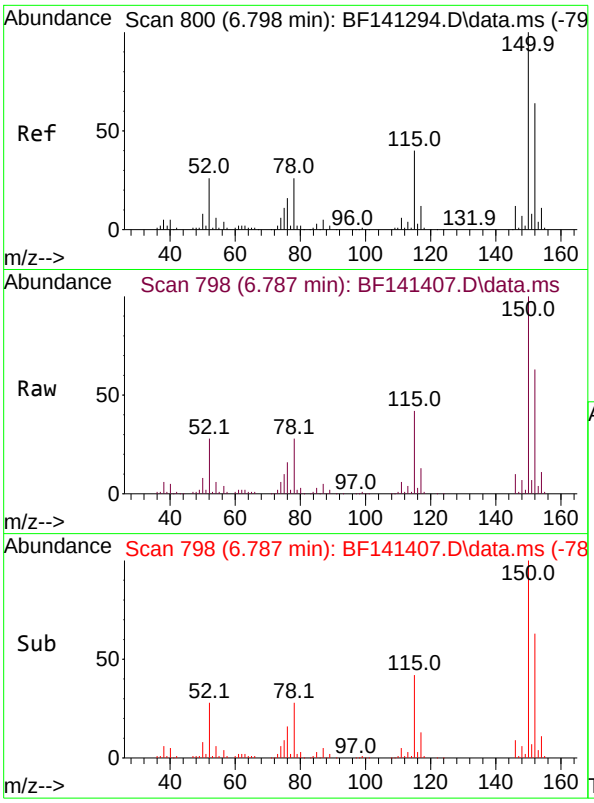
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020425\
Data File : BF141407.D
Acq On : 04 Feb 2025 14:39
Operator : RC/JU
Sample : PB166426BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Quant Time: Feb 04 15:34:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



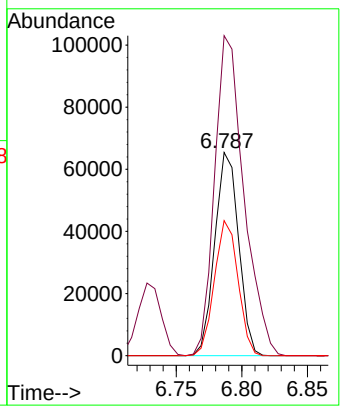
Instrument :
BNA_F
ClientSampleId :
PB166426BS

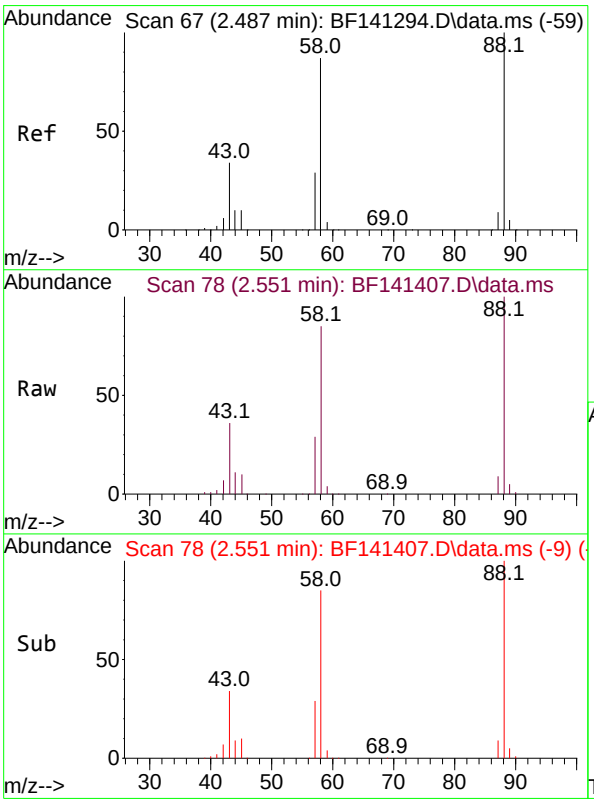


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:152 Resp: 82681

Ion	Ratio	Lower	Upper
152	100		
150	157.5	125.9	188.9
115	66.5	49.7	74.5

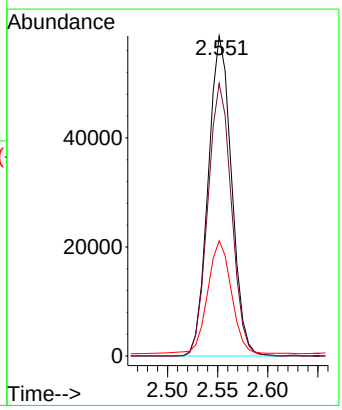


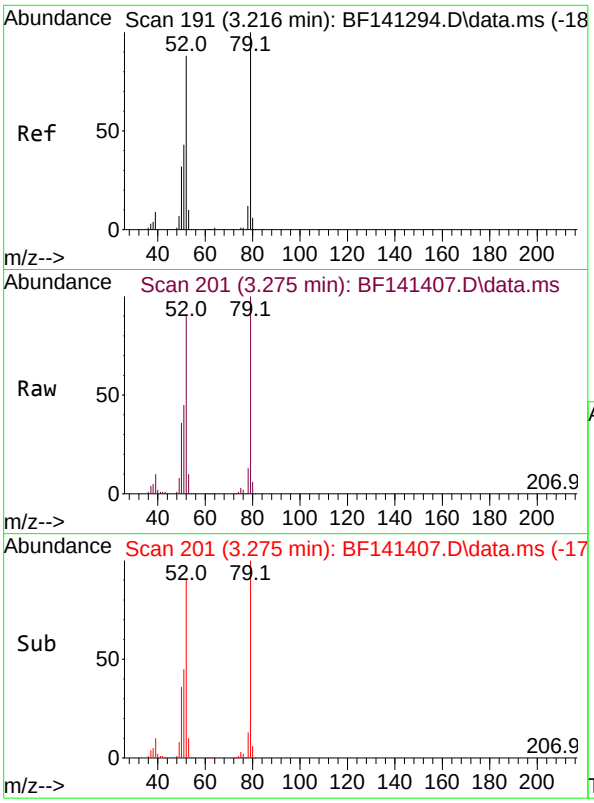


#2
1,4-Dioxane
Concen: 39.985 ng
RT: 2.551 min Scan# 78
Delta R.T. 0.059 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 88 Resp: 94708

Ion	Ratio	Lower	Upper
88	100		
58	86.5	70.2	105.4
43	36.1	27.6	41.4



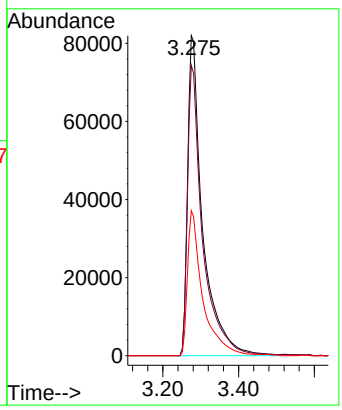


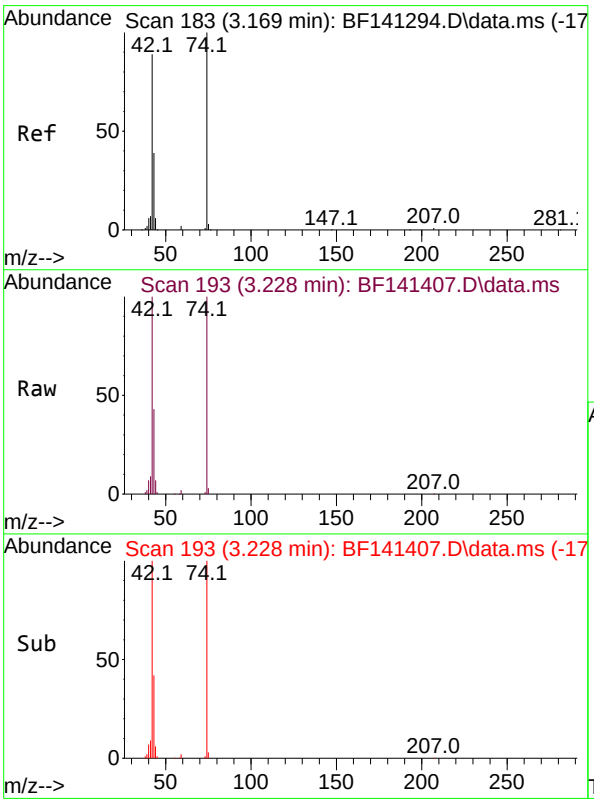
#3
Pyridine
Concen: 39.615 ng
RT: 3.275 min Scan# 2
Delta R.T. 0.047 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 79 Resp: 226080

Ion	Ratio	Lower	Upper
79	100		
52	90.7	70.3	105.5
51	45.3	34.3	51.5

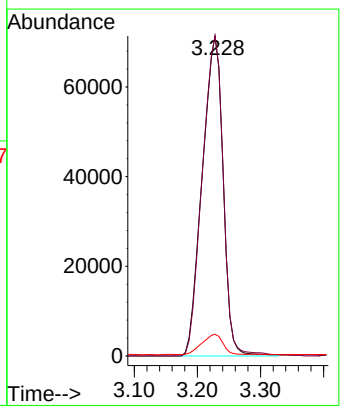


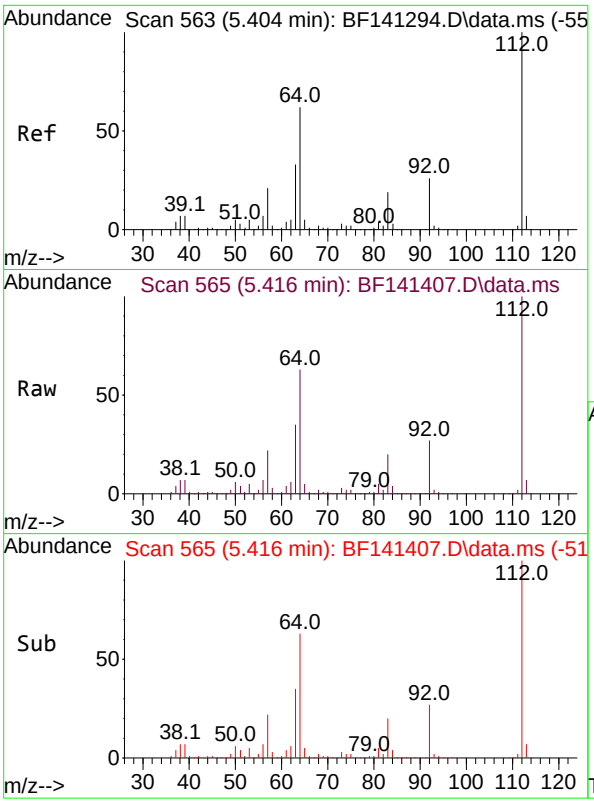


#4
n-Nitrosodimethylamine
Concen: 50.135 ng
RT: 3.228 min Scan# 193
Delta R.T. 0.029 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 42 Resp: 163446

Ion	Ratio	Lower	Upper
42	100		
74	100.1	90.3	135.5
44	6.8	5.7	8.5



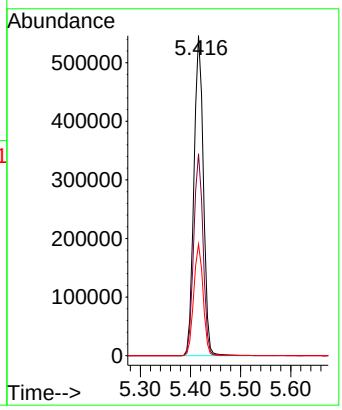


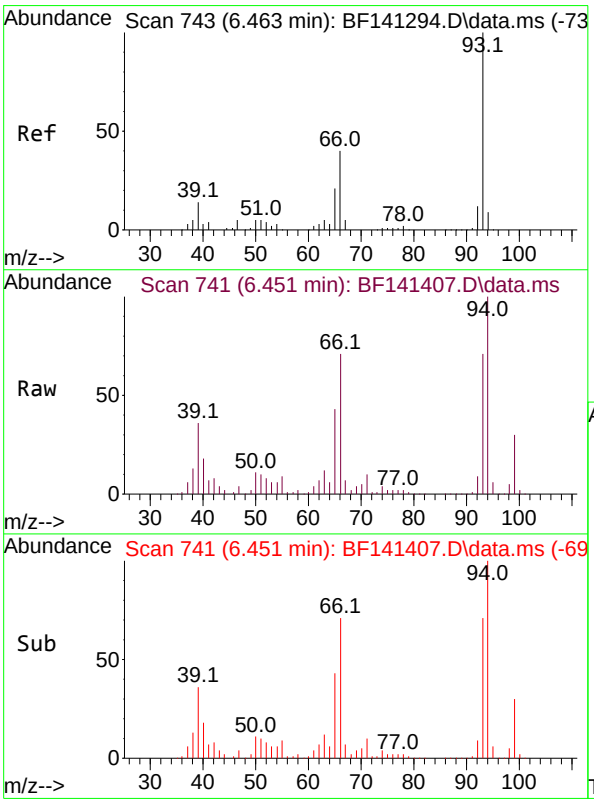
#5
2-Fluorophenol
Concen: 132.392 ng
RT: 5.416 min Scan# 5
Delta R.T. 0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:112 Resp: 713019

Ion	Ratio	Lower	Upper
112	100		
64	63.1	49.8	74.8
63	34.8	26.1	39.1

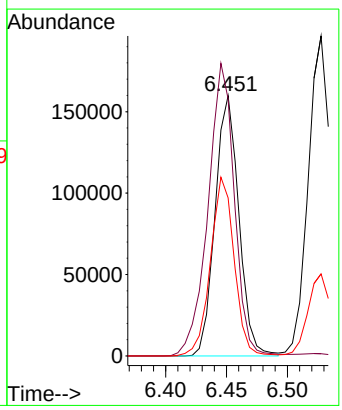


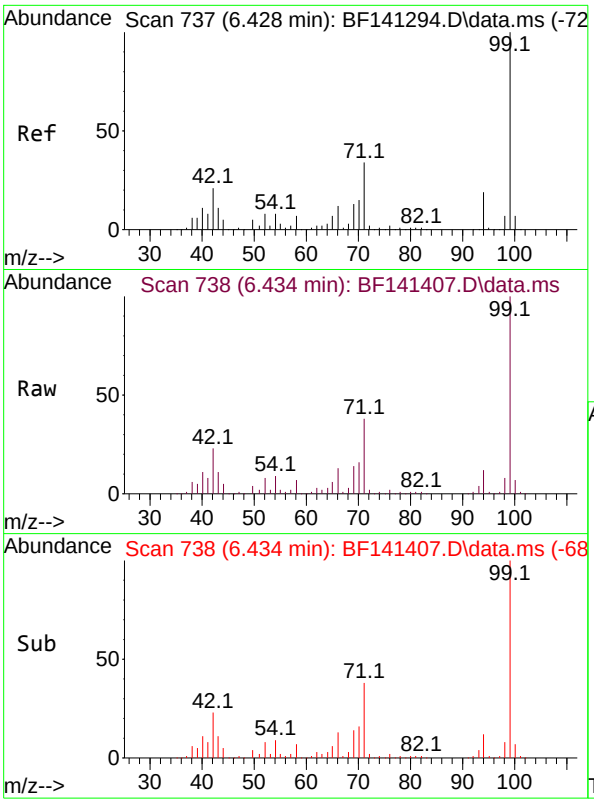


#6
Aniline
Concen: 37.466 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 93 Resp: 217287

Ion	Ratio	Lower	Upper
93	100		
66	98.7	32.5	48.7#
65	60.7	17.0	25.6#



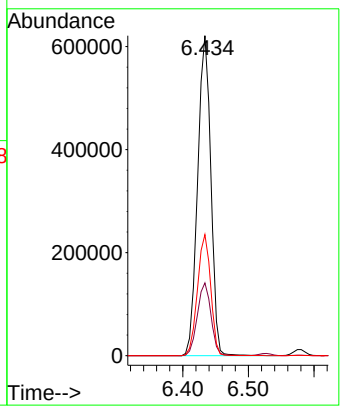


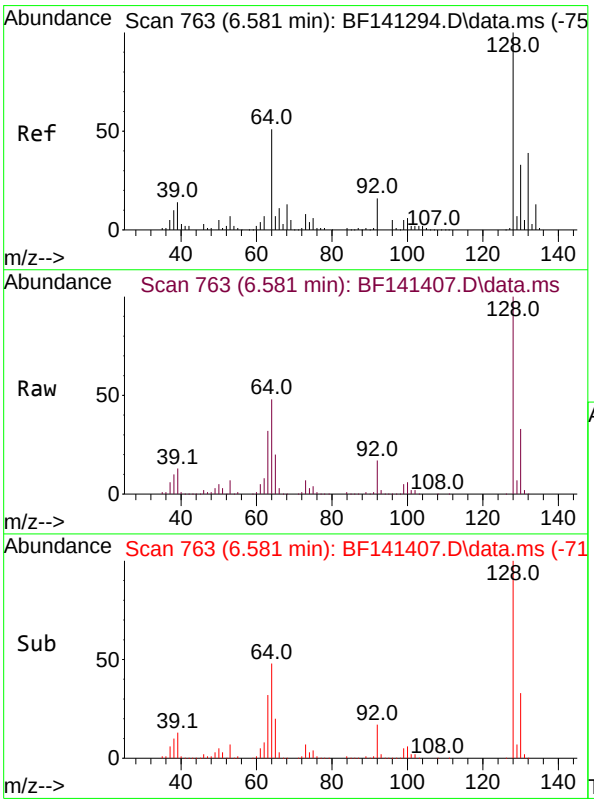
#7
Phenol-d6
Concen: 127.377 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 99 Resp: 872692

Ion	Ratio	Lower	Upper
99	100		
42	22.7	17.1	25.7
71	37.8	26.9	40.3

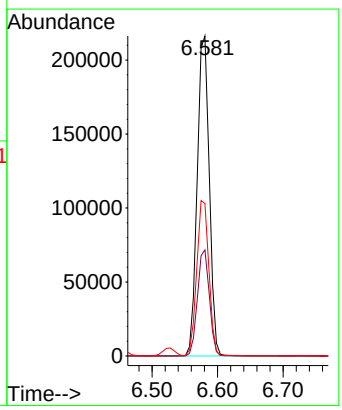


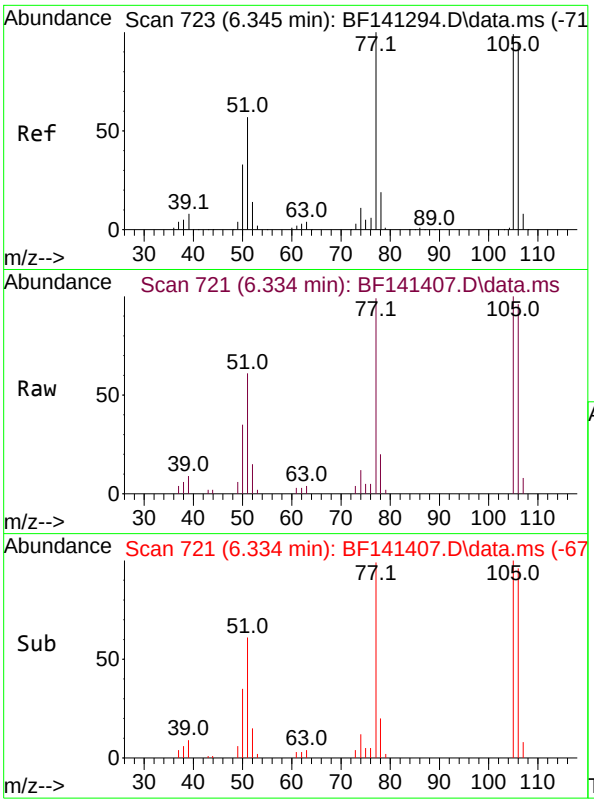


#8
2-Chlorophenol
Concen: 48.166 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:128 Resp: 278040

Ion	Ratio	Lower	Upper
128	100		
130	33.2	12.5	52.5
64	47.7	32.9	72.9



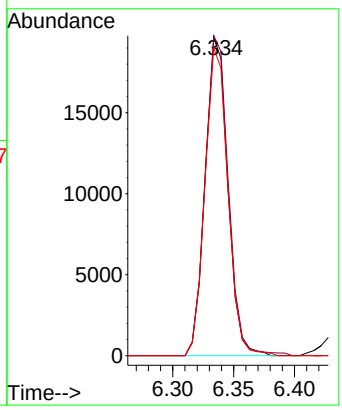


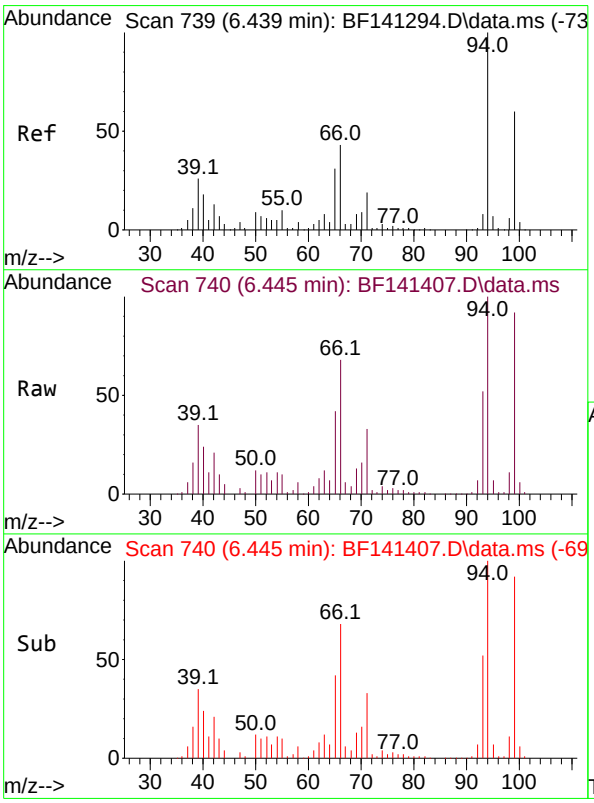
#9
Benzaldehyde
Concen: 6.417 ng
RT: 6.334 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 77 Resp: 25465

Ion	Ratio	Lower	Upper
77	100		
105	100.6	79.4	119.4
106	96.8	74.6	114.6

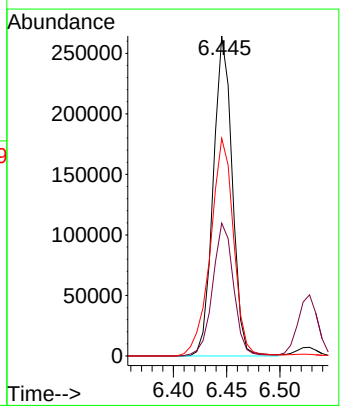


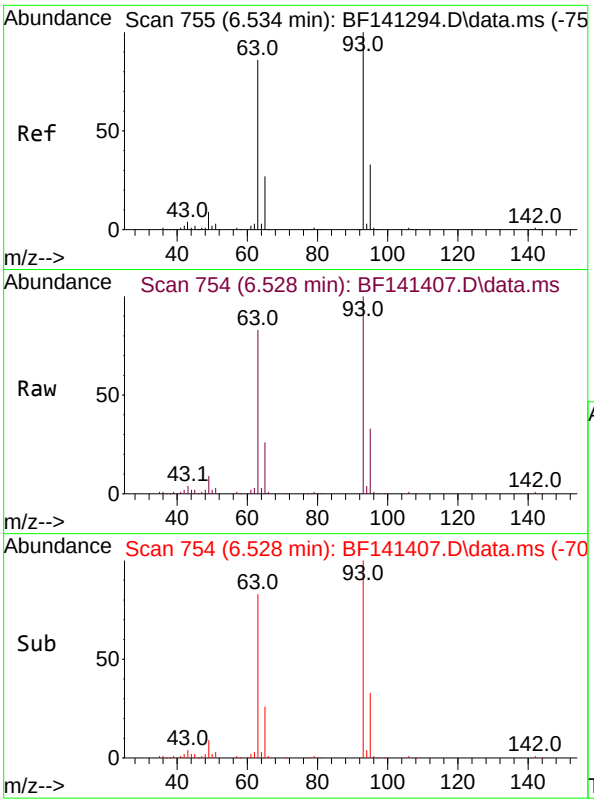


#10
Phenol
Concen: 45.020 ng
RT: 6.445 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 94 Resp: 326970

Ion	Ratio	Lower	Upper
94	100		
65	41.5	10.8	50.8
66	68.0	23.3	63.3#



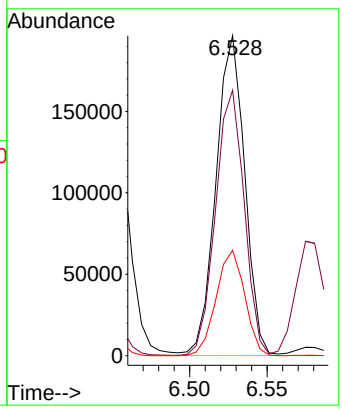


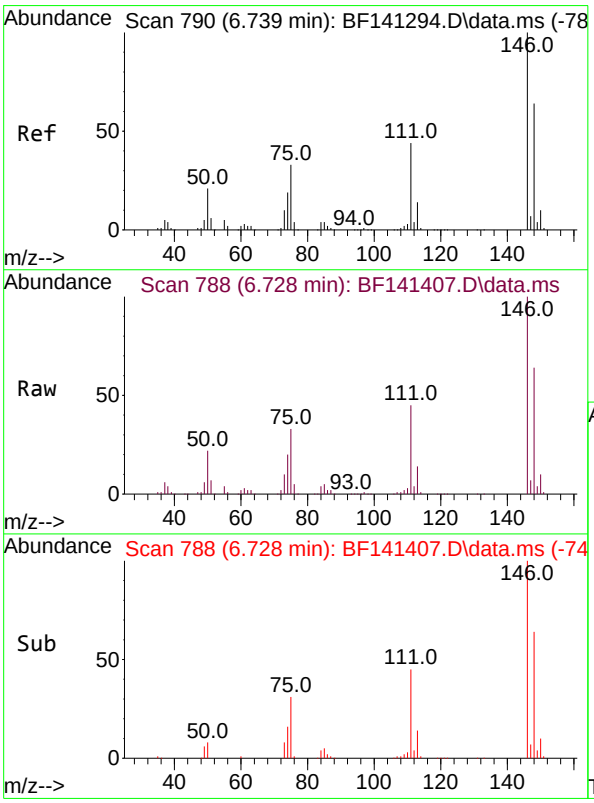
#11
bis(2-Chloroethyl)ether
Concen: 45.490 ng
RT: 6.528 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 93 Resp: 253314

Ion	Ratio	Lower	Upper
93	100		
63	83.0	65.0	105.0
95	33.0	12.4	52.4

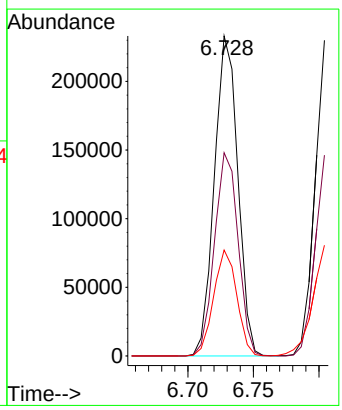


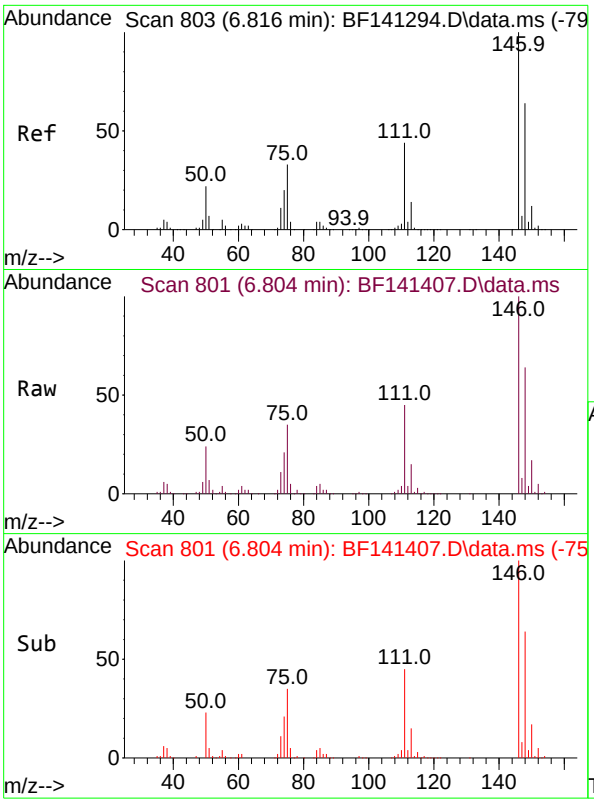


#12
1,3-Dichlorobenzene
Concen: 45.456 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:146 Resp: 289320

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.2	76.8
75	33.1	26.2	39.4



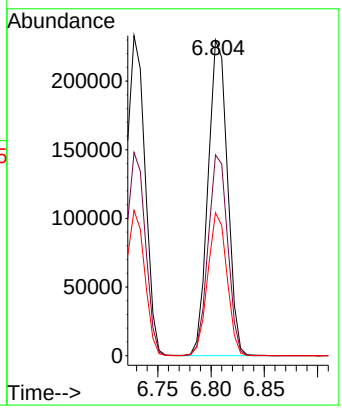


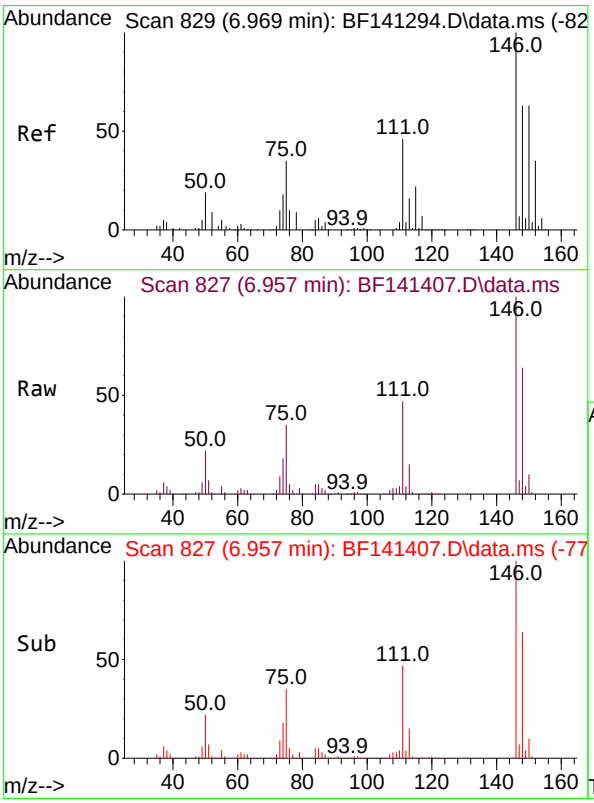
#13
1,4-Dichlorobenzene
Concen: 45.469 ng
RT: 6.804 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:146 Resp: 290732

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.2	76.8
111	45.3	35.0	52.4

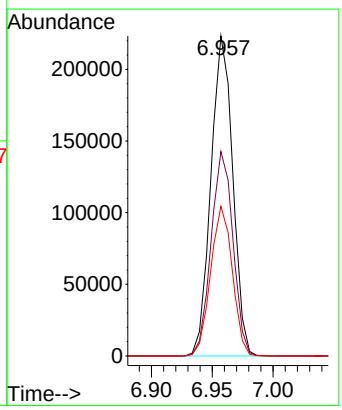


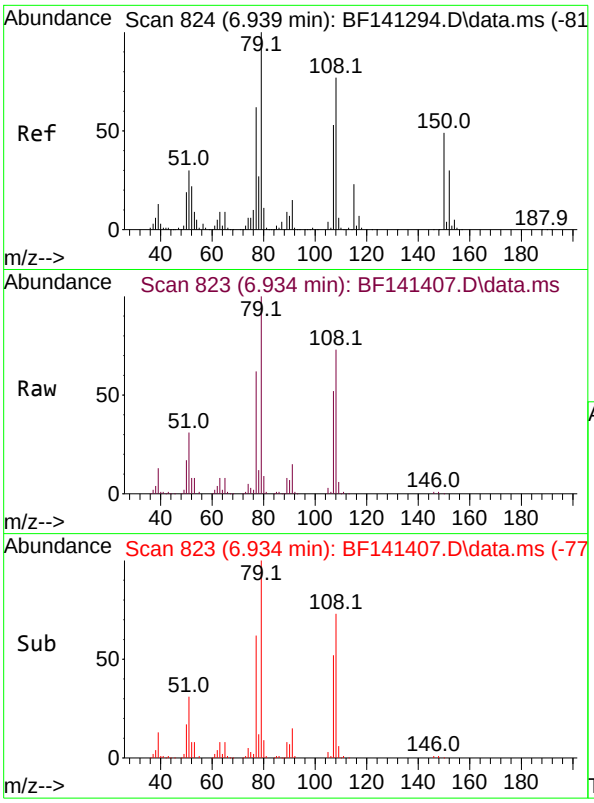


#14
1,2-Dichlorobenzene
Concen: 46.543 ng
RT: 6.957 min Scan# 827
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:146 Resp: 278667

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.5	75.7
111	46.7	36.6	55.0



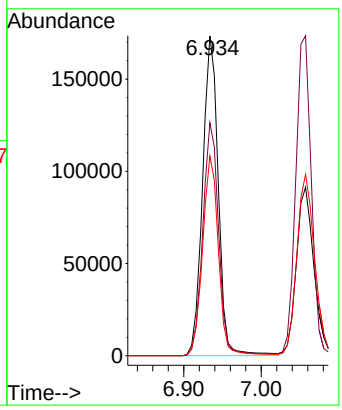


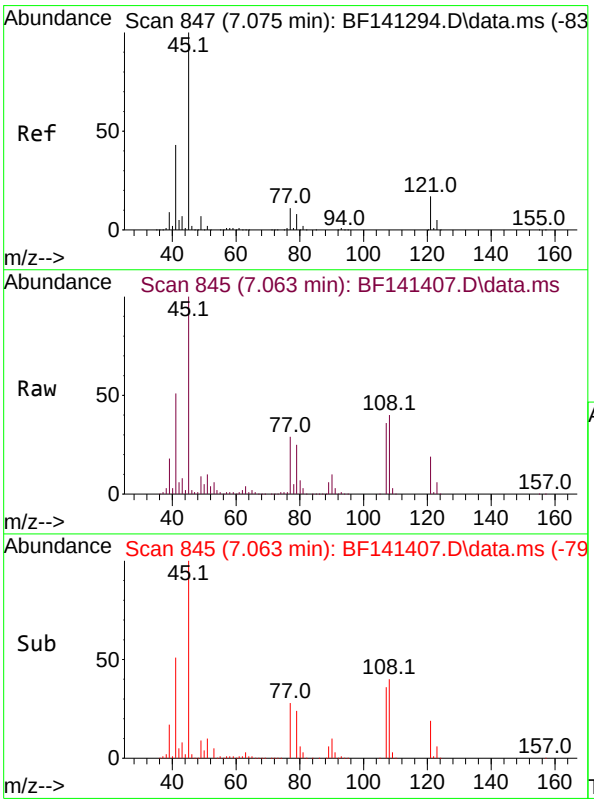
#15
Benzyl Alcohol
Concen: 52.066 ng
RT: 6.934 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 79 Resp: 243779

Ion	Ratio	Lower	Upper
79	100		
108	72.9	61.4	92.0
77	62.5	49.9	74.9

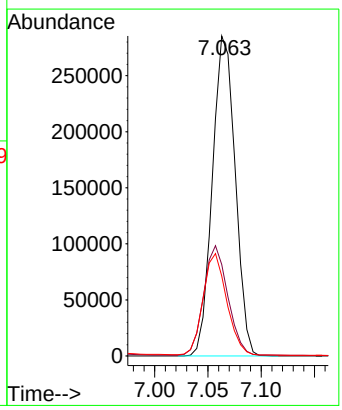


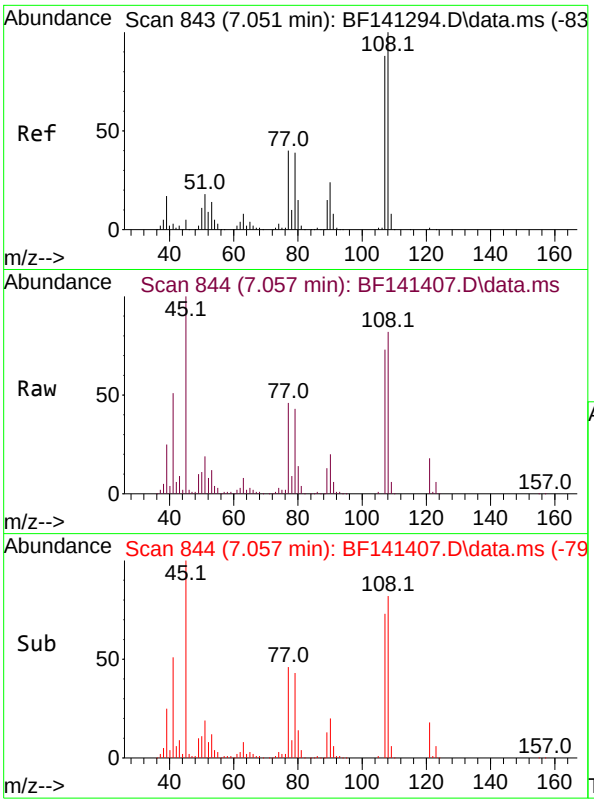


#16
2,2'-oxybis(1-Chloropropane)
Concen: 43.914 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 45 Resp: 425235

Ion	Ratio	Lower	Upper
45	100		
77	28.6	0.0	31.8
79	25.0	0.0	29.1



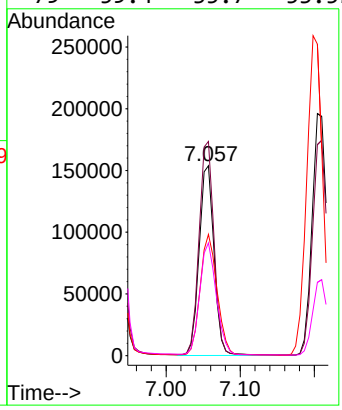


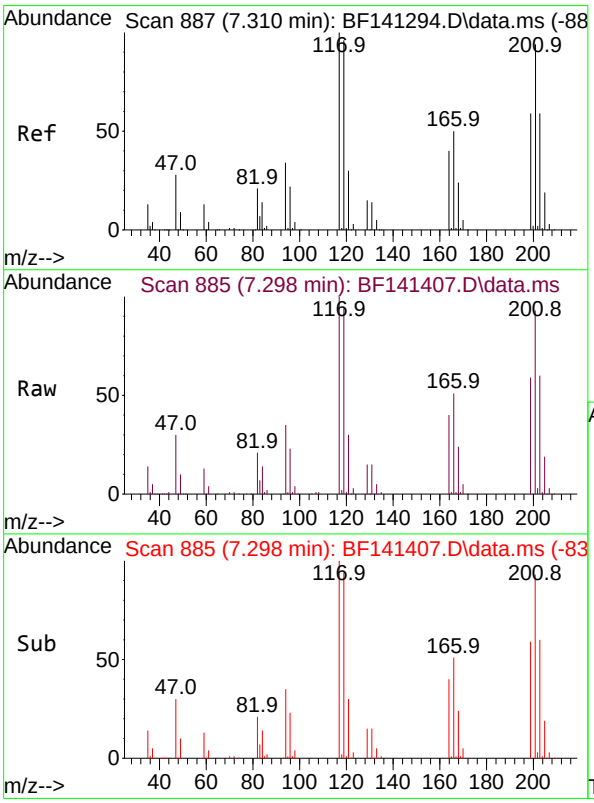
#17
2-Methylphenol
Concen: 45.900 ng
RT: 7.057 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:107 Resp: 215340

Ion	Ratio	Lower	Upper
107	100		
108	112.8	90.8	136.2
77	63.9	36.2	54.4#
79	59.4	35.7	53.5#

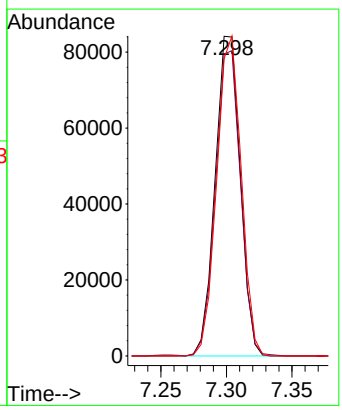


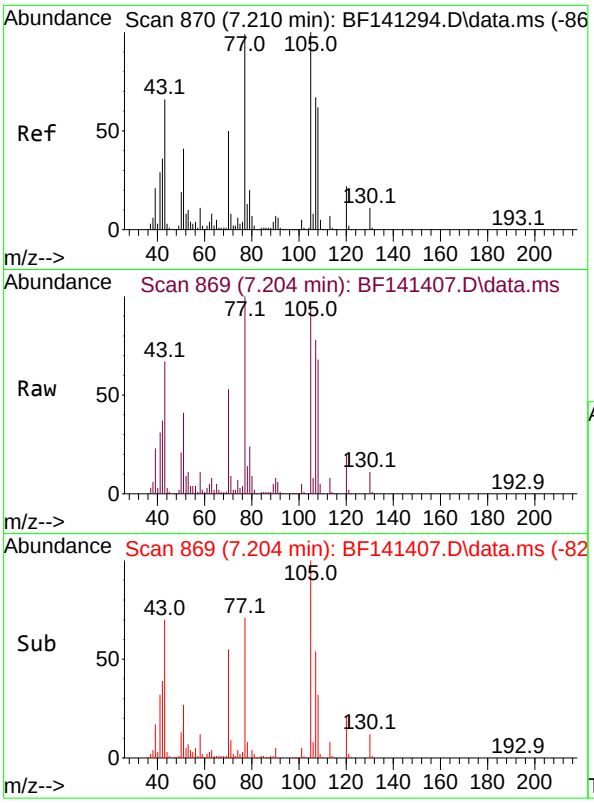


#18
Hexachloroethane
Concen: 47.515 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:117 Resp: 112078

Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	114.8
201	93.0	74.8	112.2



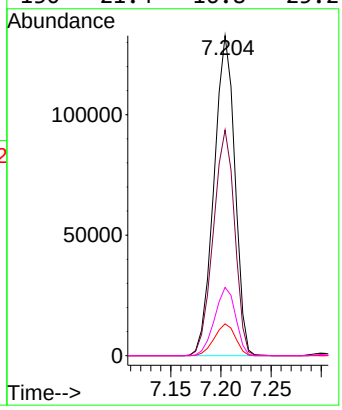


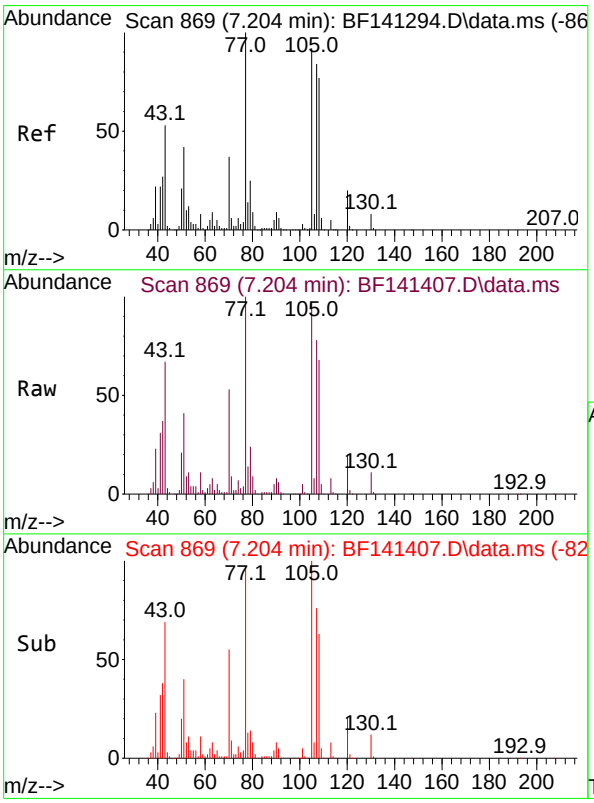
#19
n-Nitroso-di-n-propylamine
Concen: 47.250 ng
RT: 7.204 min Scan# 8
Delta R.T. -0.024 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 70 Resp: 192355

Ion	Ratio	Lower	Upper
70	100		
42	70.6	56.8	85.2
101	9.9	7.7	11.5
130	21.4	16.8	25.2

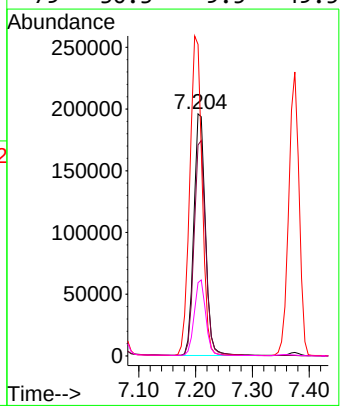


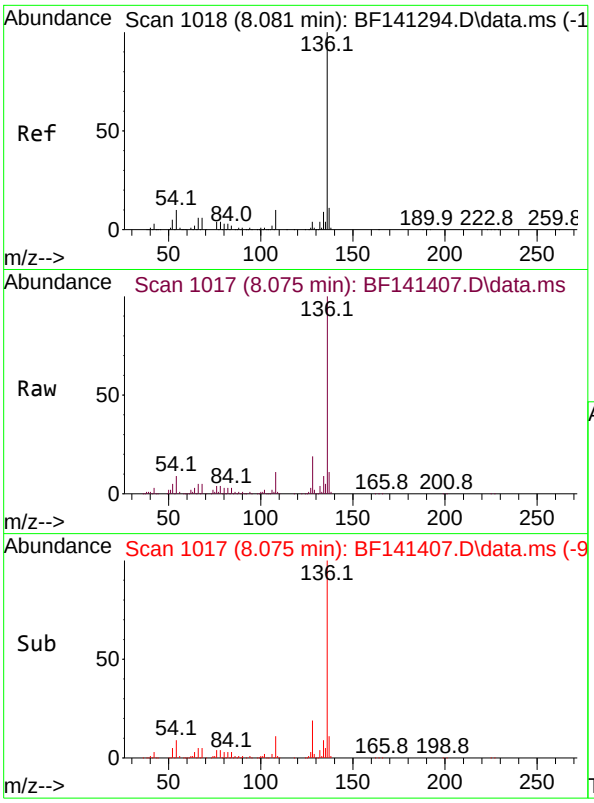


#20
3+4-Methylphenols
Concen: 48.376 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:107 Resp: 278667

Ion	Ratio	Lower	Upper
107	100		
108	87.2	70.9	110.9
77	128.7	98.5	138.5
79	30.3	9.5	49.5



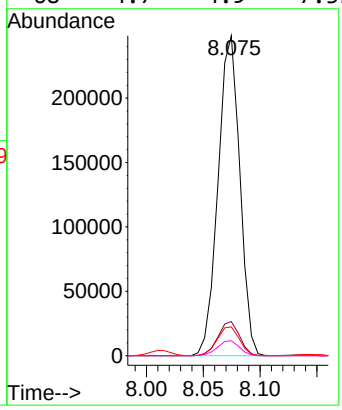


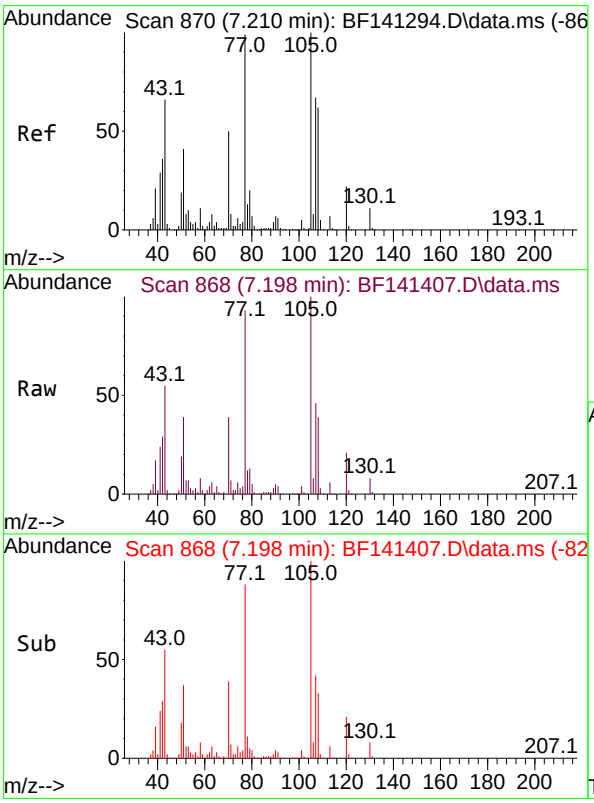
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:136 Resp: 331184

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	9.0	7.8	11.8
68	4.7	4.9	7.3#

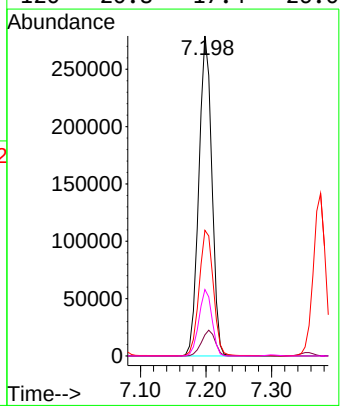


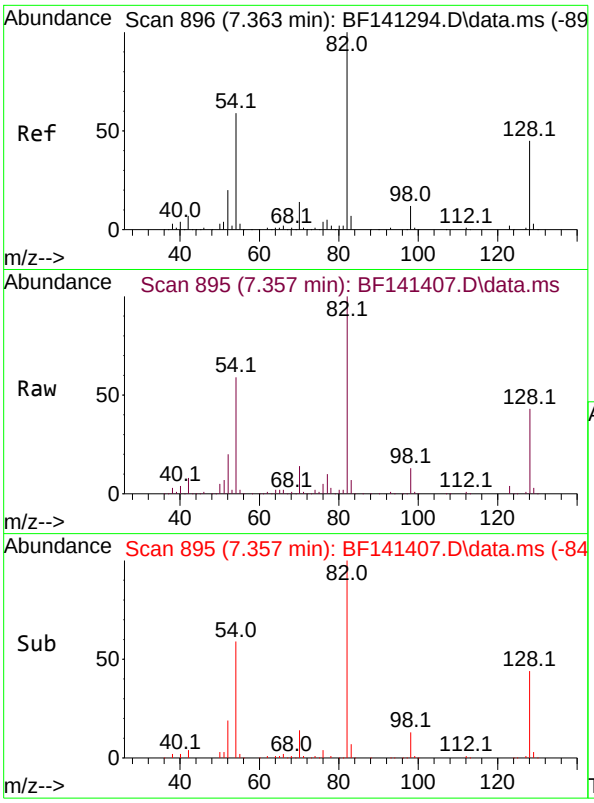


#22
Acetophenone
Concen: 49.197 ng
RT: 7.198 min Scan# 868
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:105 Resp: 387286

Ion	Ratio	Lower	Upper
105	100		
71	6.6	6.8	10.2#
51	39.2	32.6	49.0
120	20.8	17.4	26.0



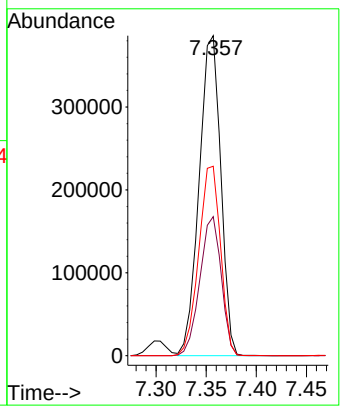


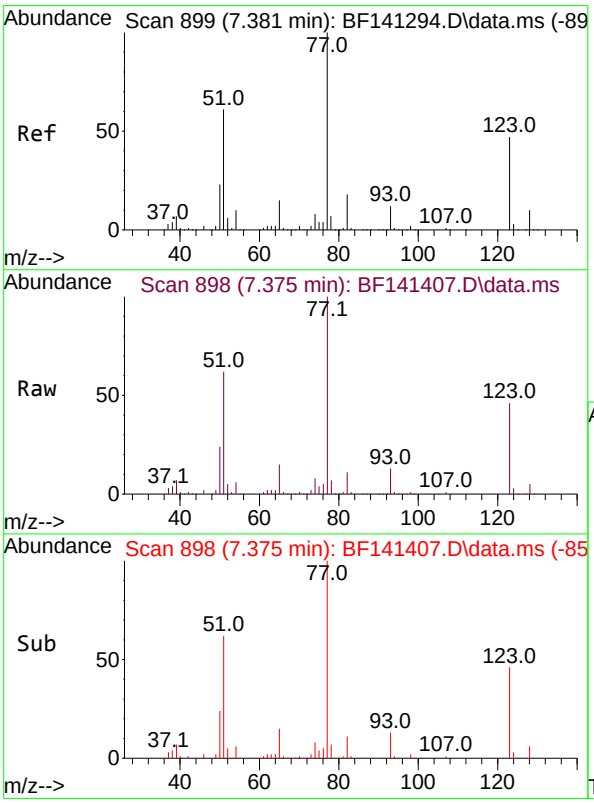
#23
Nitrobenzene-d5
Concen: 92.213 ng
RT: 7.357 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 82 Resp: 579317

Ion	Ratio	Lower	Upper
82	100		
128	43.5	35.7	53.5
54	59.2	47.1	70.7

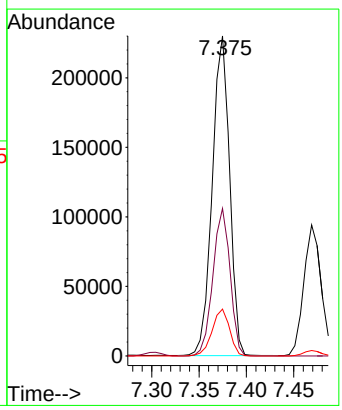


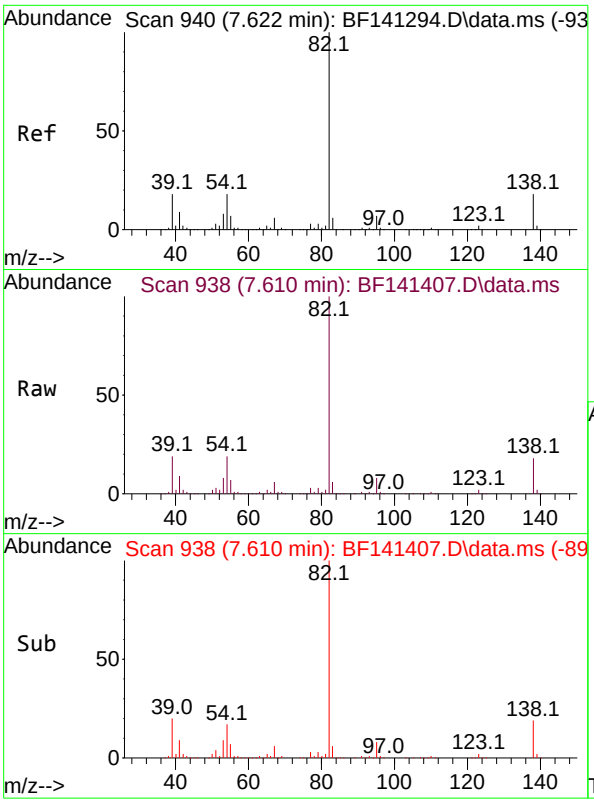


#24
Nitrobenzene
Concen: 44.851 ng
RT: 7.375 min Scan# 898
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 77 Resp: 291997

Ion	Ratio	Lower	Upper
77	100		
123	46.1	37.3	55.9
65	14.7	11.8	17.6



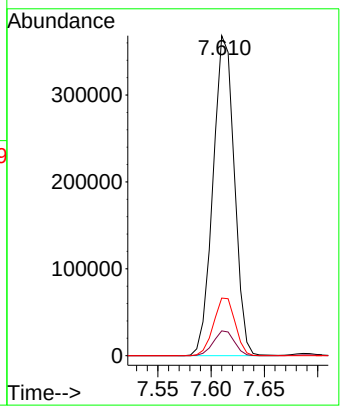


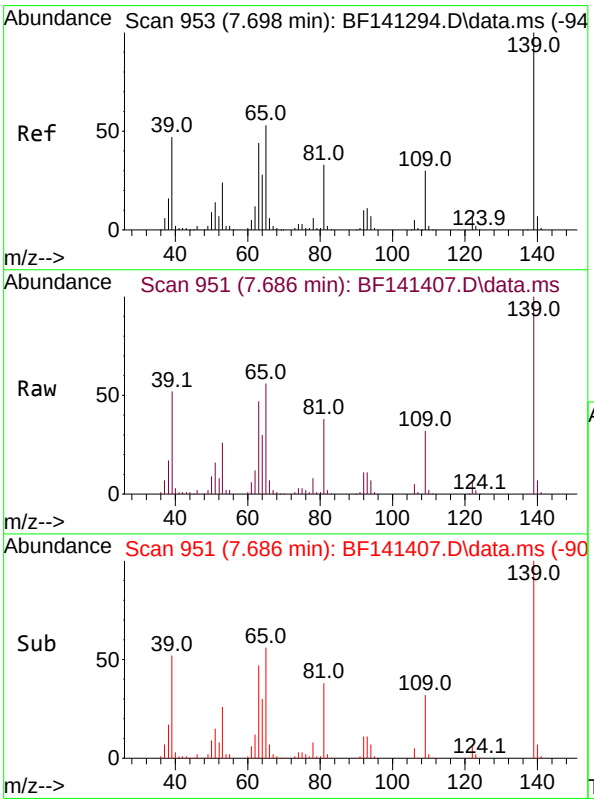
#25
Isophorone
Concen: 47.166 ng
RT: 7.610 min Scan# 9
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 82 Resp: 512208

Ion	Ratio	Lower	Upper
82	100		
95	7.7	5.8	8.6
138	18.0	14.7	22.1

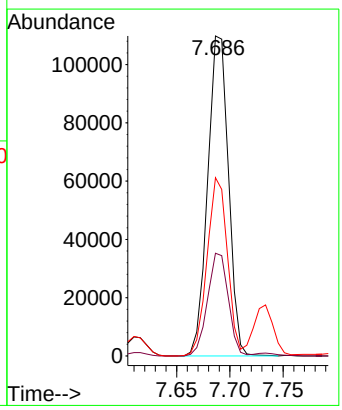


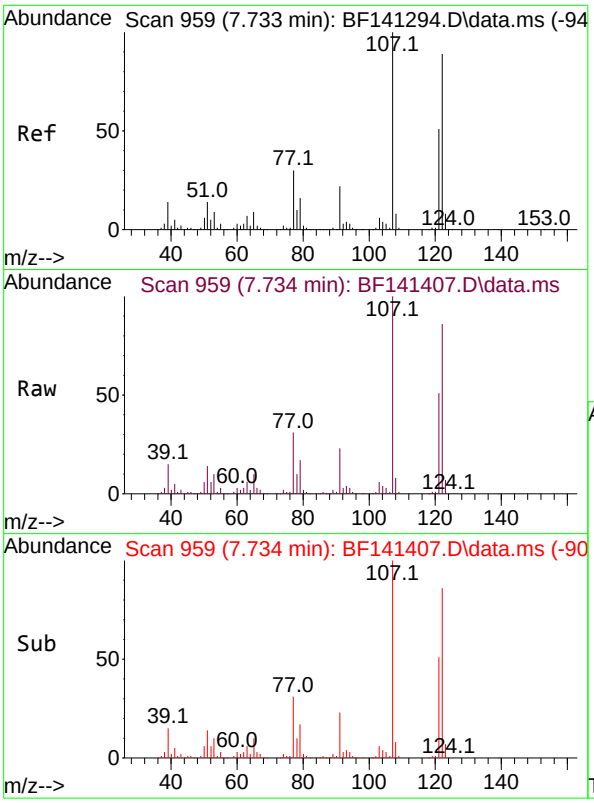


#26
2-Nitrophenol
Concen: 48.573 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:139 Resp: 149139

Ion	Ratio	Lower	Upper
139	100		
109	32.1	23.8	35.6
65	55.7	42.2	63.4



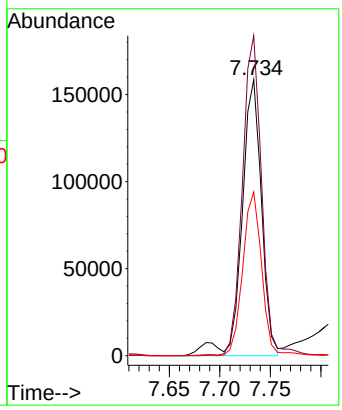


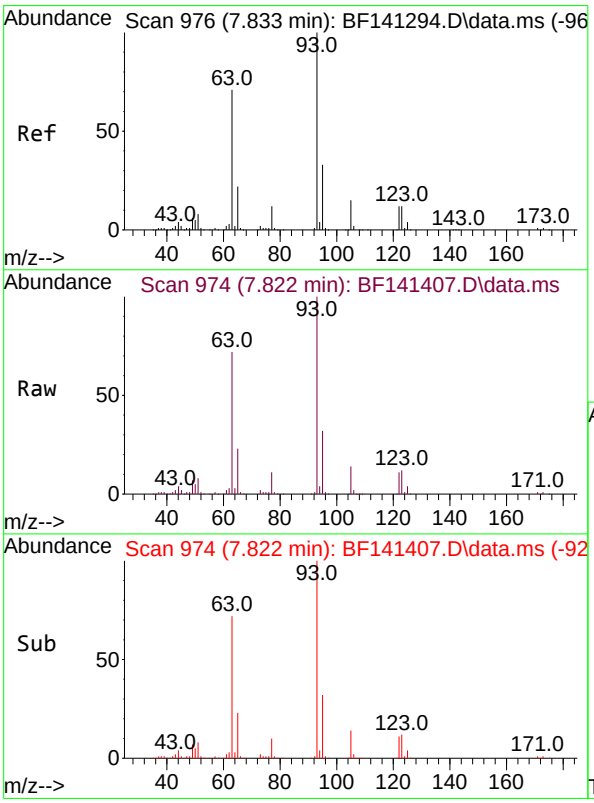
#27
2,4-Dimethylphenol
Concen: 54.835 ng m
RT: 7.734 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:122 Resp: 214302

Ion	Ratio	Lower	Upper
122	100		
107	116.0	89.9	134.9
121	59.3	46.1	69.1

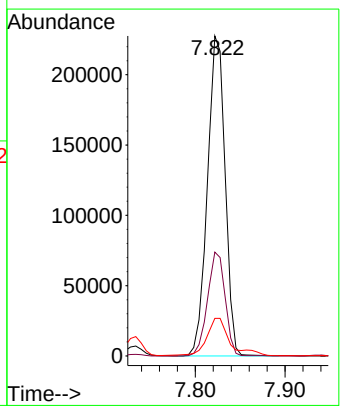


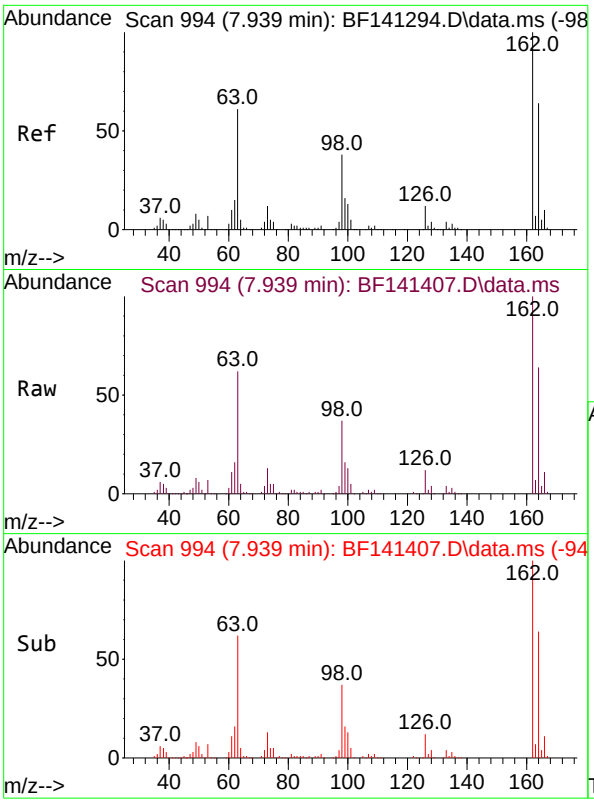


#28
bis(2-Chloroethoxy)methane
Concen: 45.013 ng
RT: 7.822 min Scan# 974
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 93 Resp: 311809

Ion	Ratio	Lower	Upper
93	100		
95	32.4	26.2	39.2
123	11.8	10.2	15.4



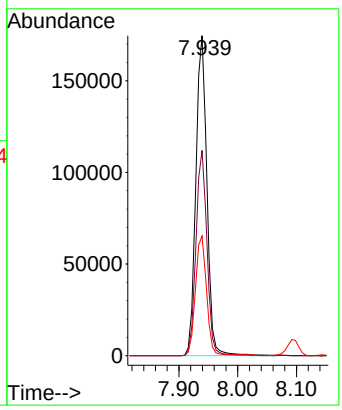


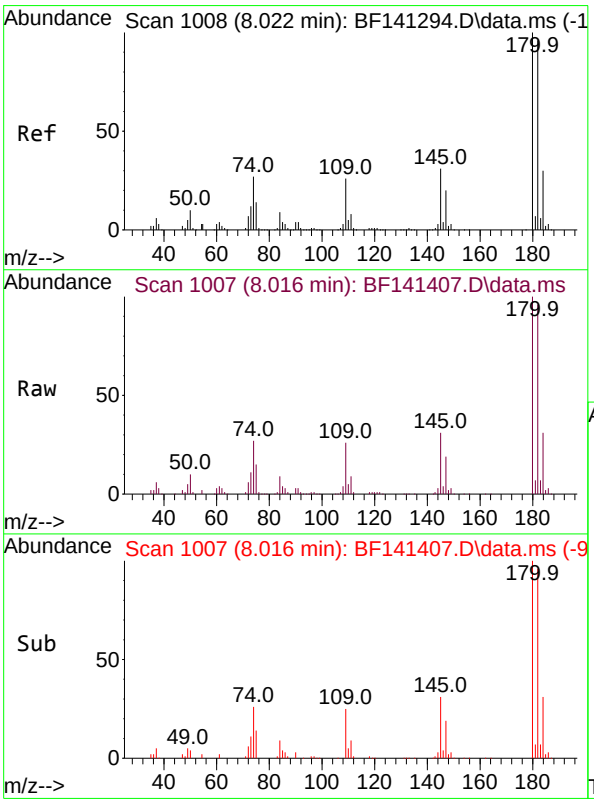
#29
2,4-Dichlorophenol
Concen: 47.802 ng
RT: 7.939 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:162 Resp: 228705

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.2	84.2
98	37.4	18.2	58.2

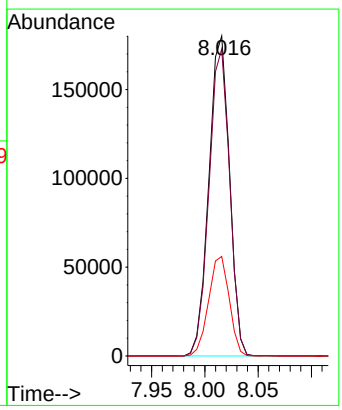


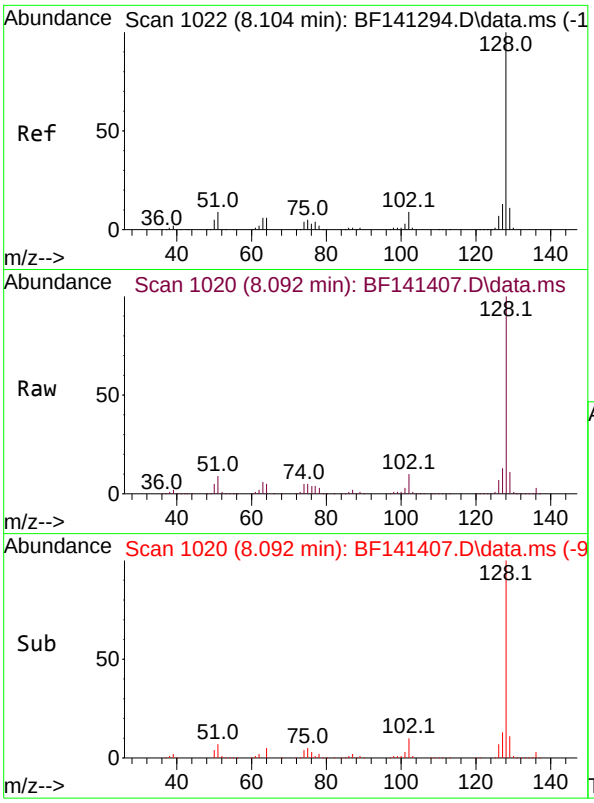


#30
1,2,4-Trichlorobenzene
Concen: 44.333 ng
RT: 8.016 min Scan# 1007
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:180 Resp: 242234

Ion	Ratio	Lower	Upper
180	100		
182	96.0	76.4	114.6
145	31.1	24.9	37.3



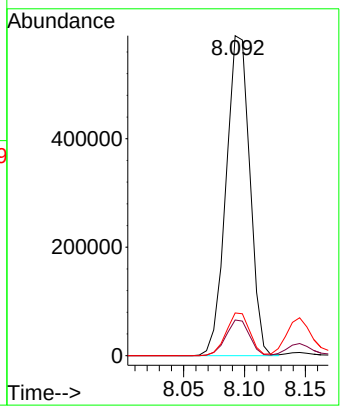


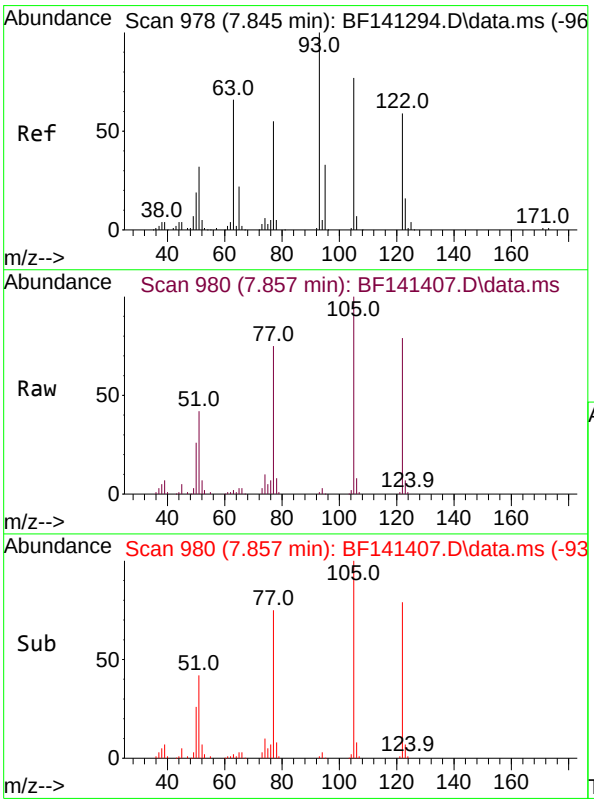
#31
Naphthalene
Concen: 45.673 ng
RT: 8.092 min Scan# 1
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:128 Resp: 799068

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.9	13.3
127	13.4	10.6	15.8

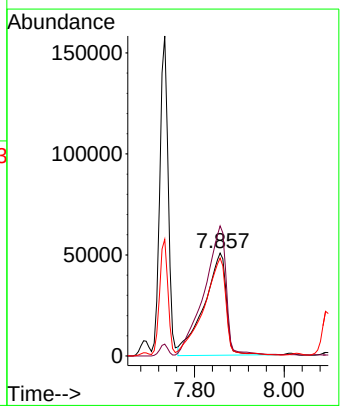


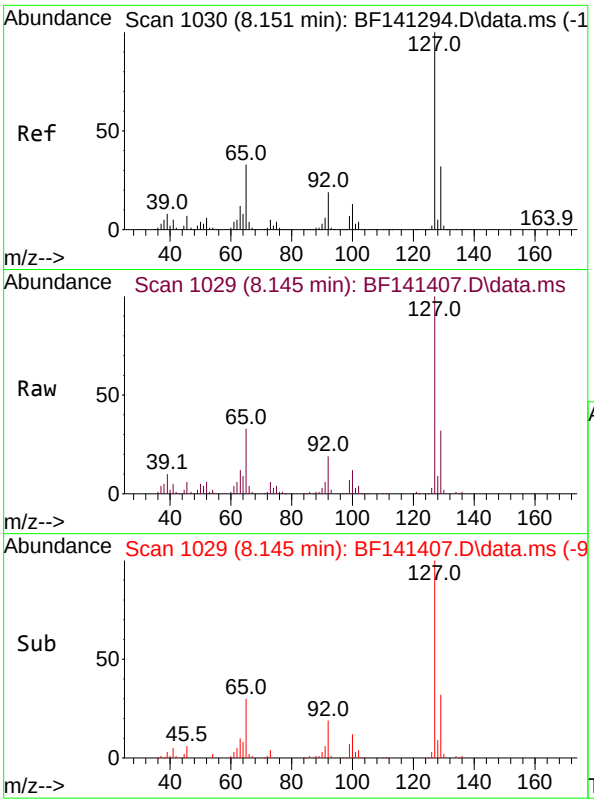


#32
Benzoic acid
Concen: 48.396 ng
RT: 7.857 min Scan# 980
Delta R.T. -0.024 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:122 Resp: 173870

Ion	Ratio	Lower	Upper
122	100		
105	126.5	103.4	143.4
77	95.1	70.9	110.9



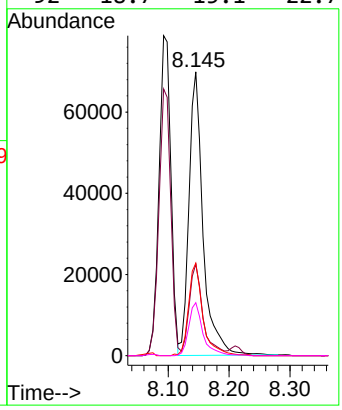


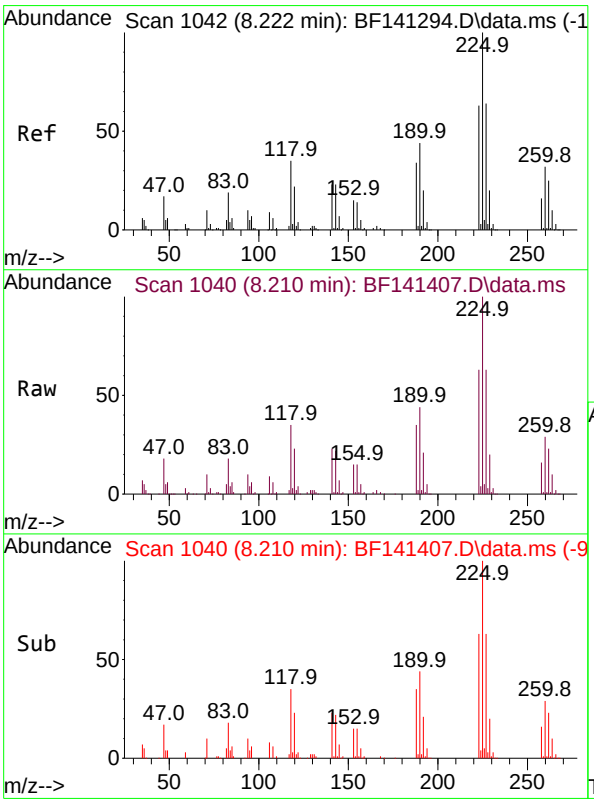
#33
4-Chloroaniline
Concen: 18.861 ng
RT: 8.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:127 Resp: 111900

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	32.6	26.4	39.6
92	18.7	15.1	22.7

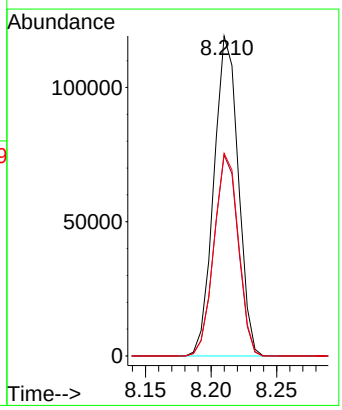


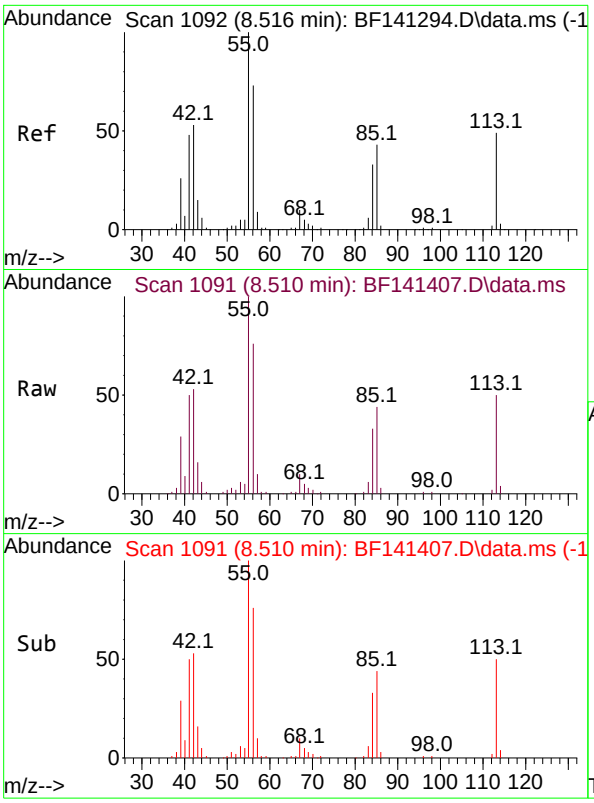


#34
Hexachlorobutadiene
Concen: 47.999 ng
RT: 8.210 min Scan# 1040
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:225 Resp: 153801

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.4	75.6
227	63.4	51.3	76.9



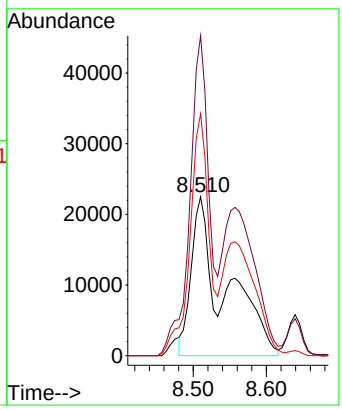


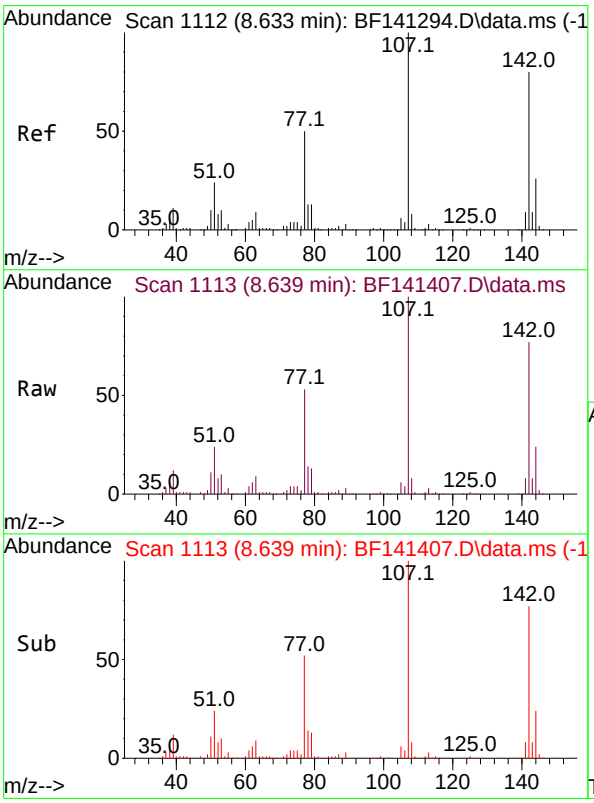
#35
Caprolactam
Concen: 45.688 ng m
RT: 8.510 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:113 Resp: 71389

Ion	Ratio	Lower	Upper
113	100		
55	201.4	182.9	222.9
56	152.2	127.9	167.9

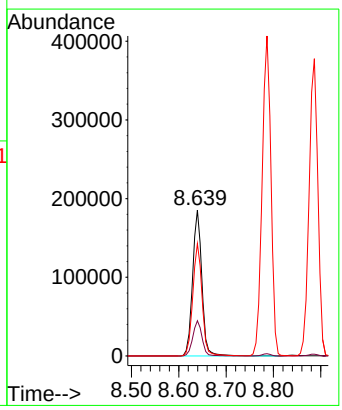


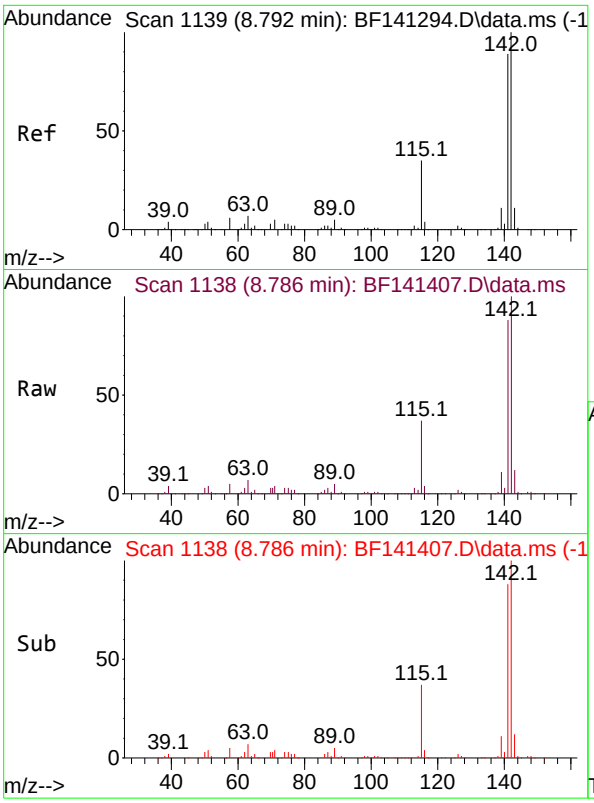


#36
4-Chloro-3-methylphenol
Concen: 49.256 ng
RT: 8.639 min Scan# 1113
Delta R.T. -0.000 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:107 Resp: 252782

Ion	Ratio	Lower	Upper
107	100		
144	24.1	20.7	31.1
142	77.0	63.8	95.8



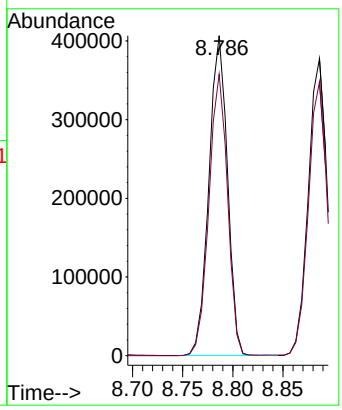


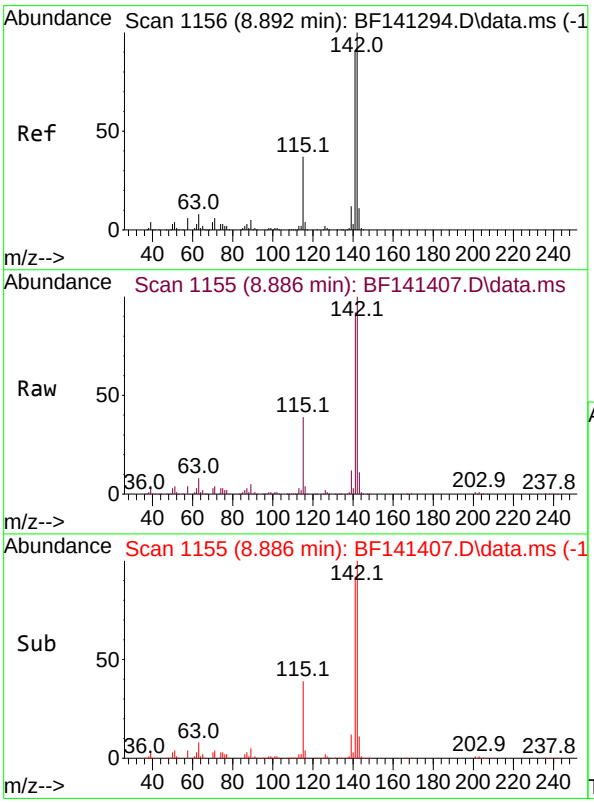
#37
2-Methylnaphthalene
Concen: 47.126 ng
RT: 8.786 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:142 Resp: 524031

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.3	106.9

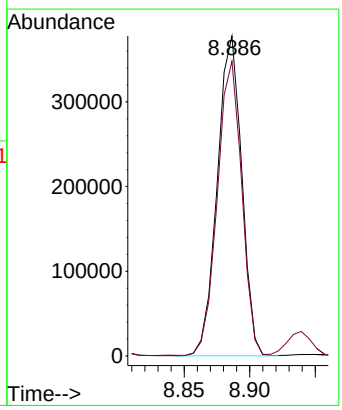


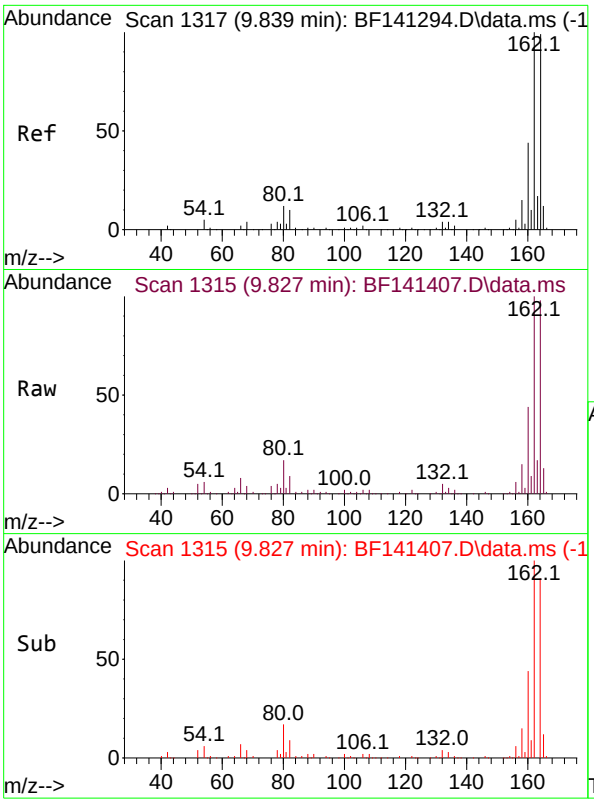


#38
1-Methylnaphthalene
Concen: 44.732 ng
RT: 8.886 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:142 Resp: 488613

Ion	Ratio	Lower	Upper
142	100		
141	92.1	73.2	109.8



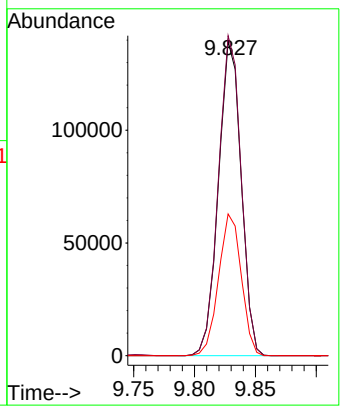


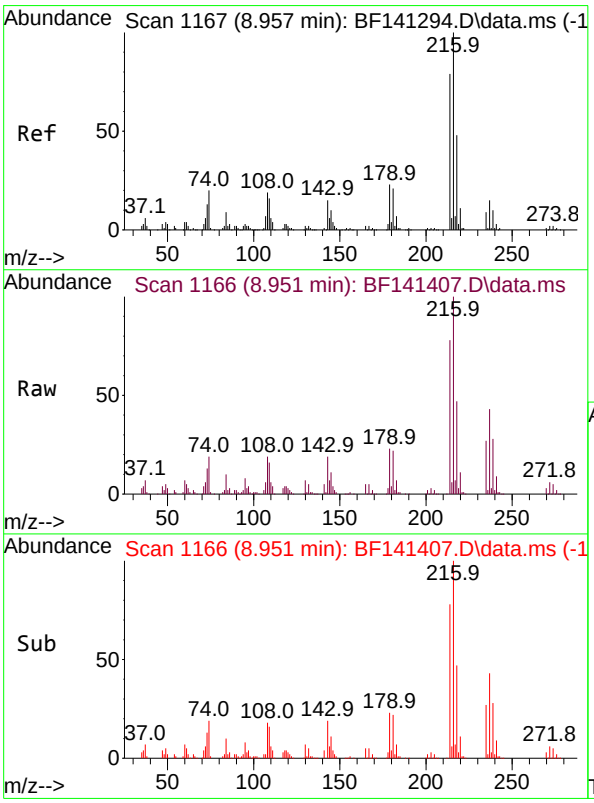
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:164 Resp: 180993

Ion	Ratio	Lower	Upper
164	100		
162	101.8	80.6	121.0
160	45.1	35.8	53.6

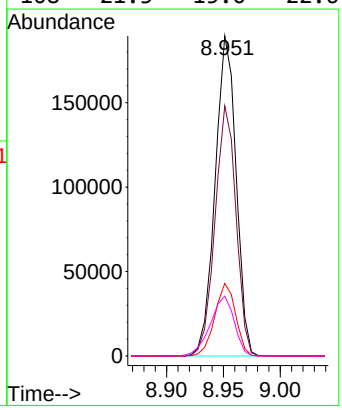


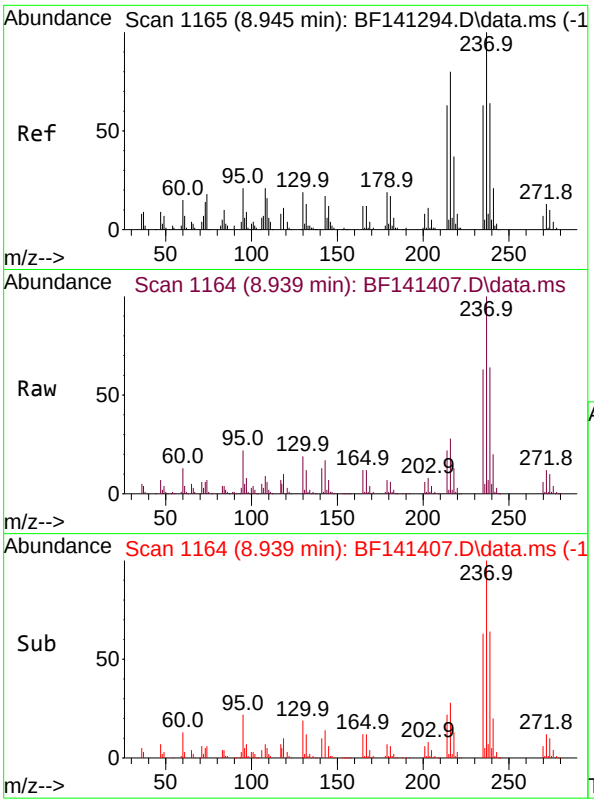


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.415 ng
RT: 8.951 min Scan# 1166
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:216 Resp: 244141

Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.2	94.8
179	22.5	17.8	26.8
108	21.3	15.0	22.6



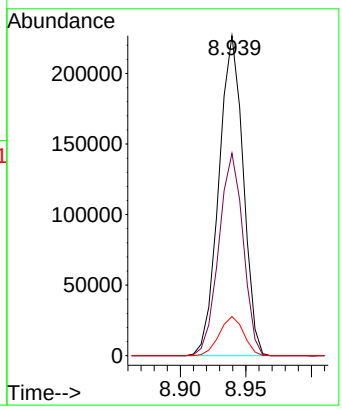


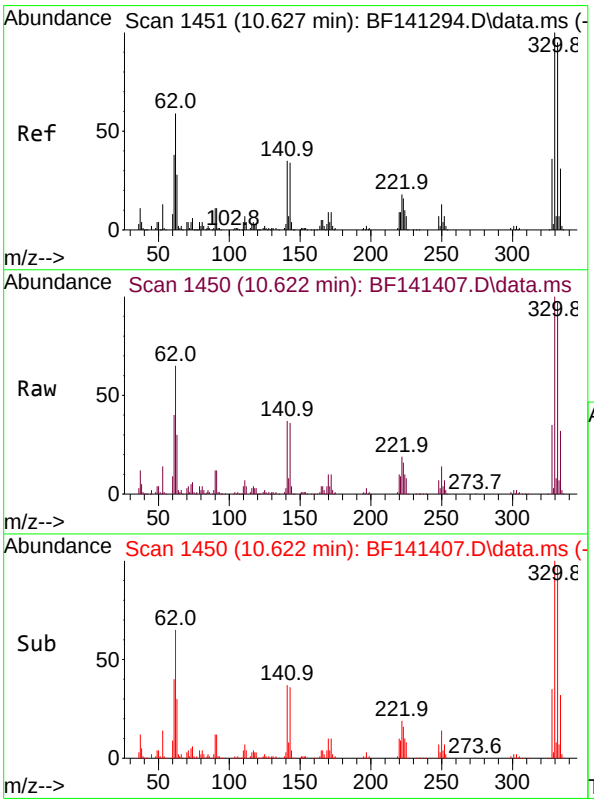
#41
Hexachlorocyclopentadiene
Concen: 192.529 ng
RT: 8.939 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:237 Resp: 292771

Ion	Ratio	Lower	Upper
237	100		
235	63.3	42.9	82.9
272	12.2	0.0	32.8

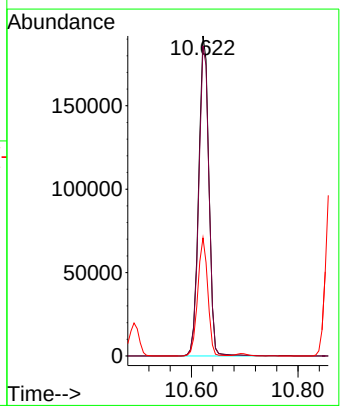


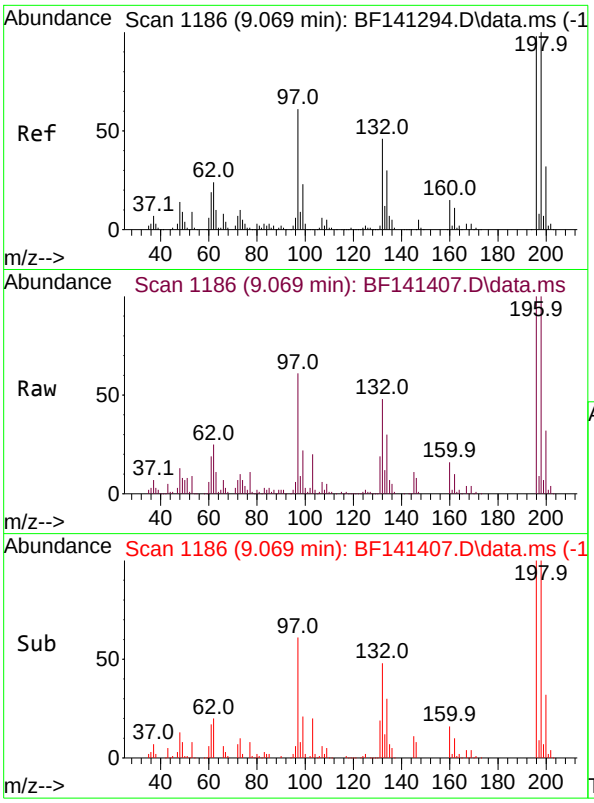


#42
2,4,6-Tribromophenol
Concen: 153.605 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:330 Resp: 254875

Ion	Ratio	Lower	Upper
330	100		
332	97.0	76.1	114.1
141	36.3	28.8	43.2



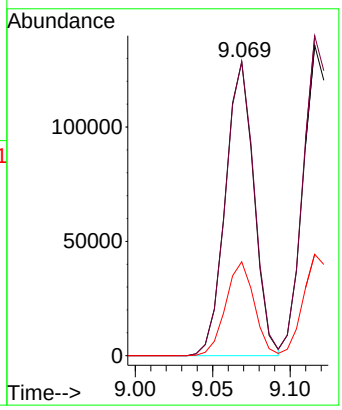


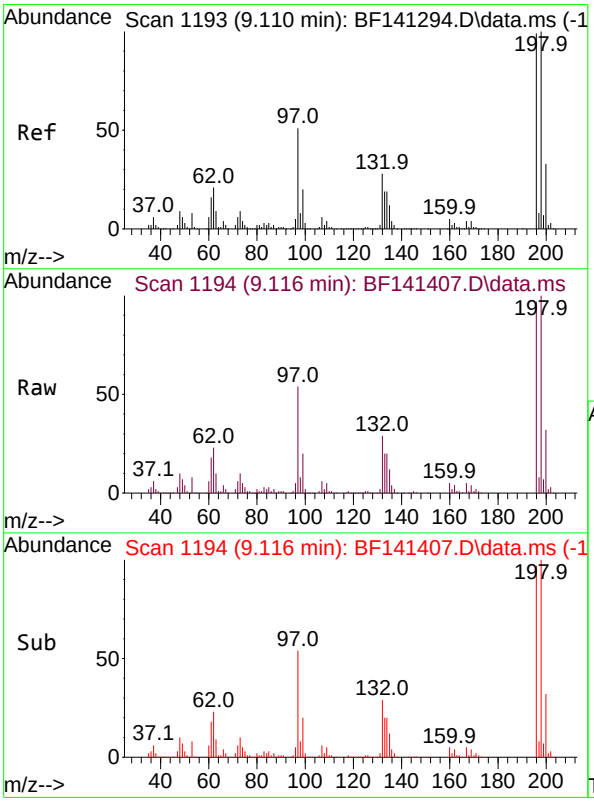
#43
2,4,6-Trichlorophenol
Concen: 48.807 ng
RT: 9.069 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:196 Resp: 164492

Ion	Ratio	Lower	Upper
196	100		
198	100.3	81.8	122.6
200	32.0	26.3	39.5

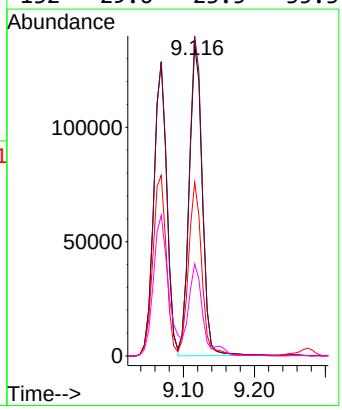


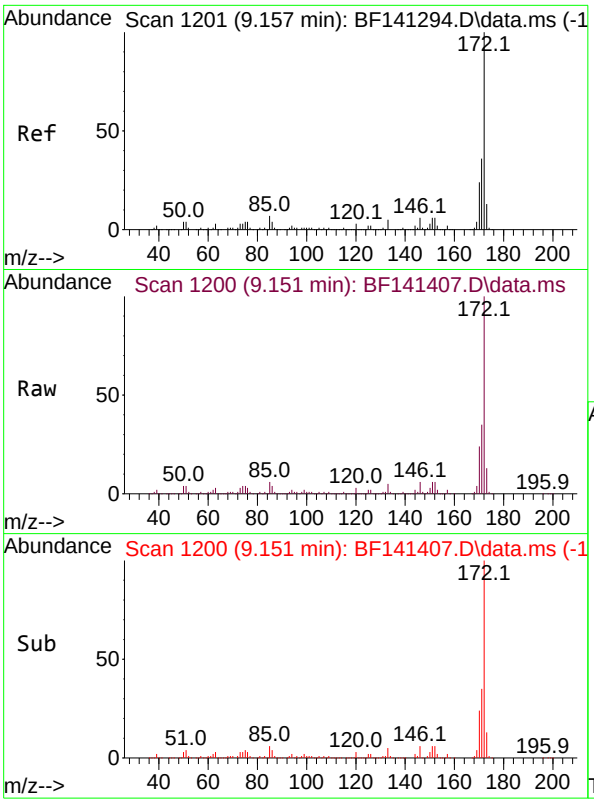


#44
2,4,5-Trichlorophenol
Concen: 47.278 ng
RT: 9.116 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:196 Resp: 173420

Ion	Ratio	Lower	Upper
196	100		
198	103.0	80.5	120.7
97	56.0	42.8	64.2
132	29.6	23.5	35.3



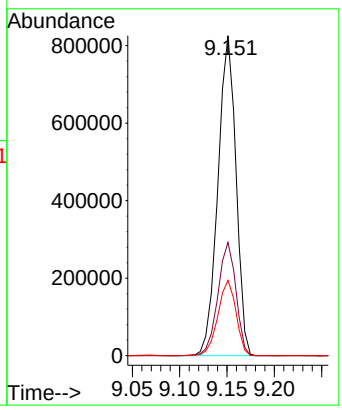


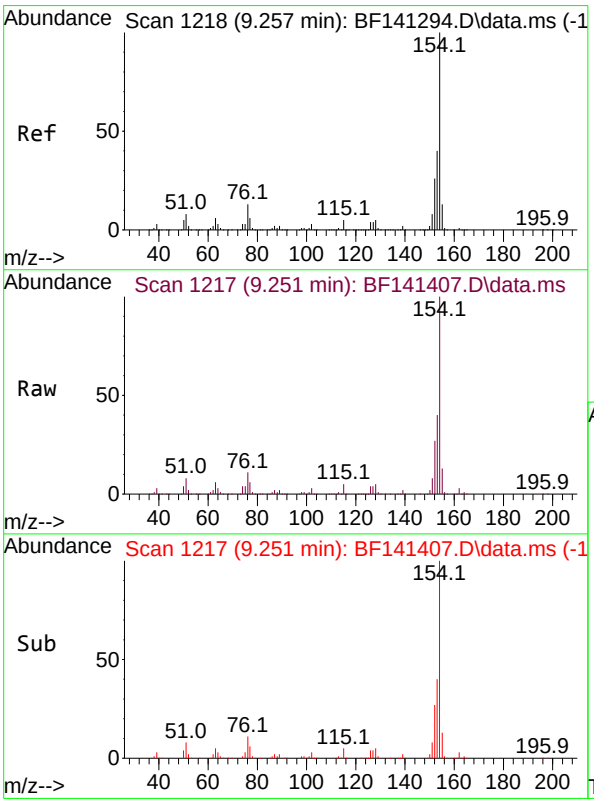
#45
2-Fluorobiphenyl
Concen: 93.511 ng
RT: 9.151 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:172 Resp: 1099591

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.8	43.2
170	23.6	19.0	28.6

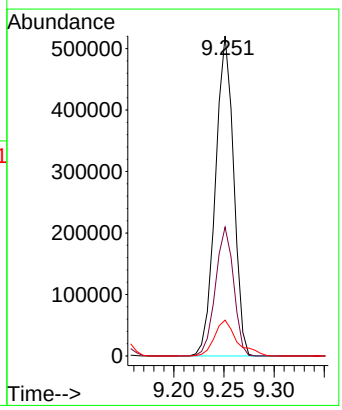


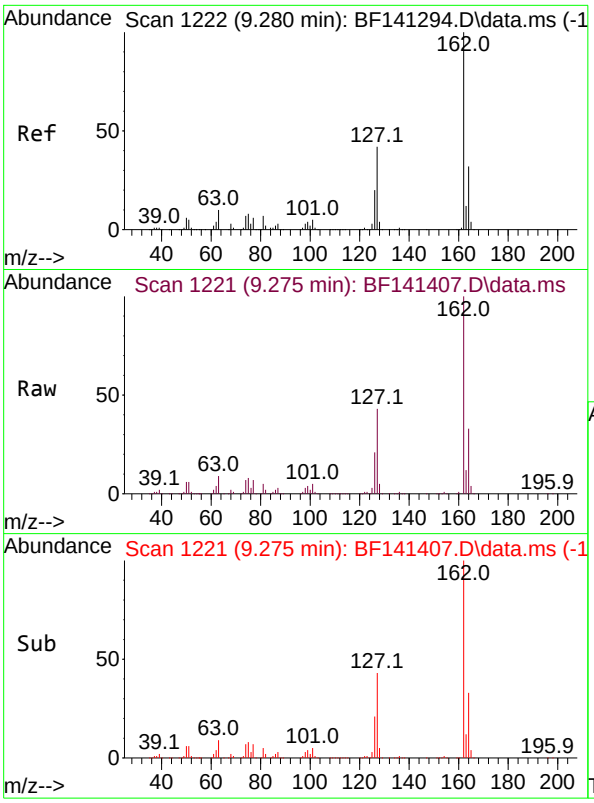


#46
1,1'-Biphenyl
Concen: 46.471 ng
RT: 9.251 min Scan# 1217
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:154 Resp: 655951

Ion	Ratio	Lower	Upper
154	100		
153	40.2	20.0	60.0
76	11.2	0.0	32.8



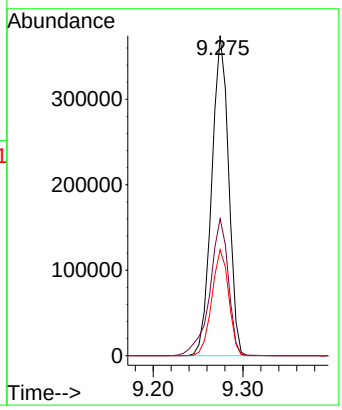


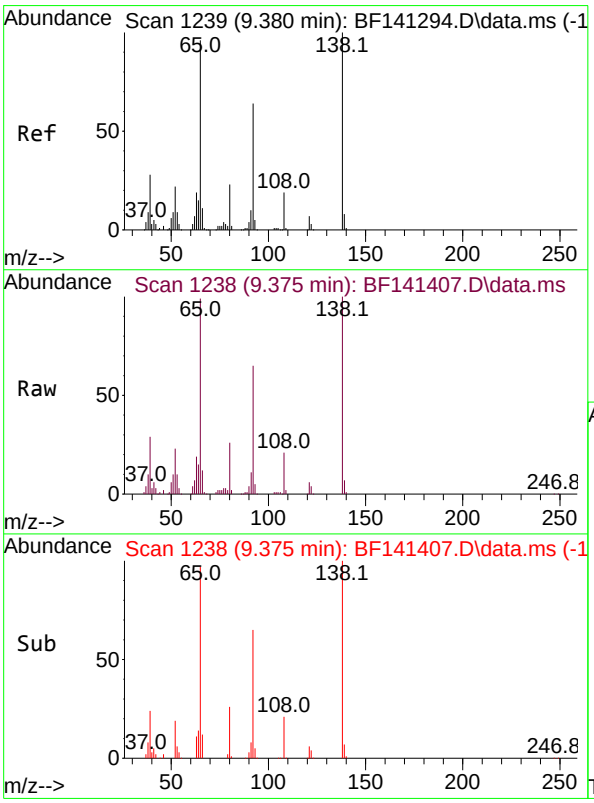
#47
2-Chloronaphthalene
Concen: 44.496 ng
RT: 9.275 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:162 Resp: 489548

Ion	Ratio	Lower	Upper
162	100		
127	42.8	33.7	50.5
164	33.1	25.9	38.9

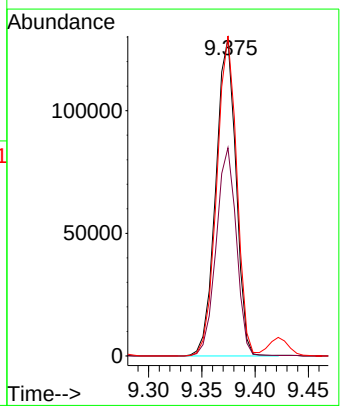


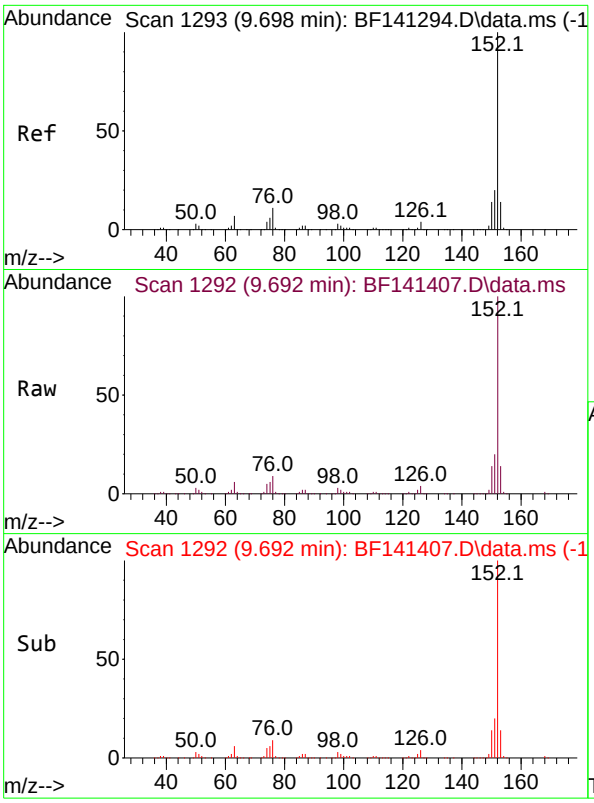


#48
2-Nitroaniline
Concen: 49.205 ng
RT: 9.375 min Scan# 1238
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion: 65 Resp: 170280

Ion	Ratio	Lower	Upper
65	100		
92	65.7	53.3	79.9
138	101.0	83.6	125.4



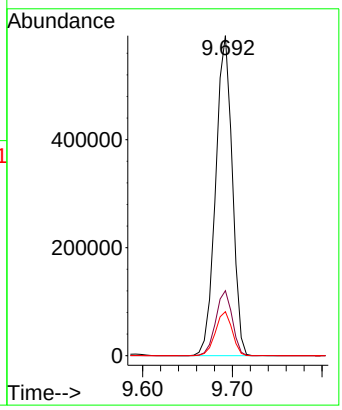


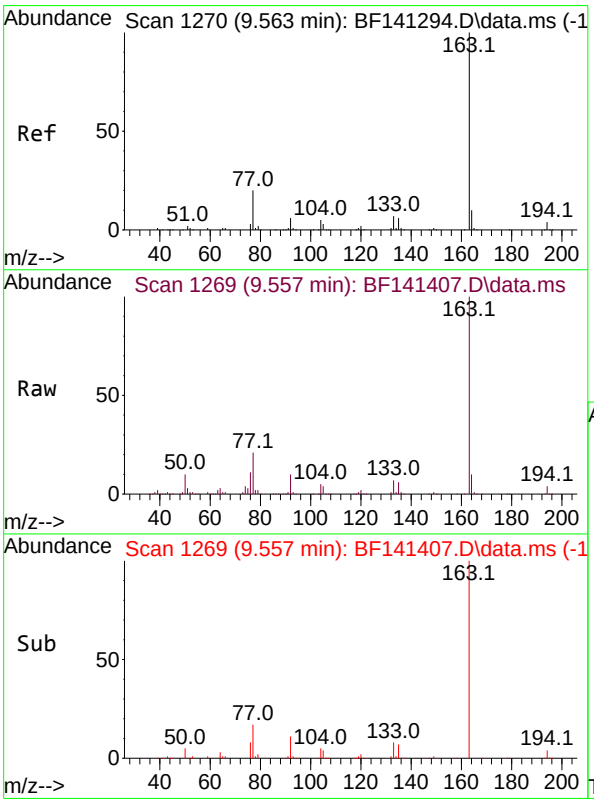
#49
Acenaphthylene
Concen: 49.410 ng
RT: 9.692 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:152 Resp: 760954

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	13.8	11.0	16.6

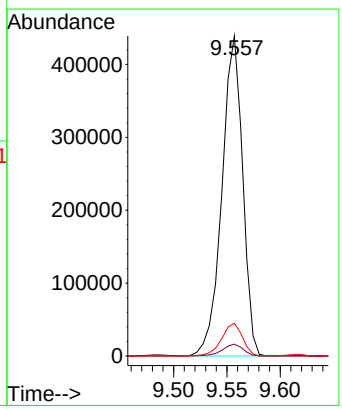


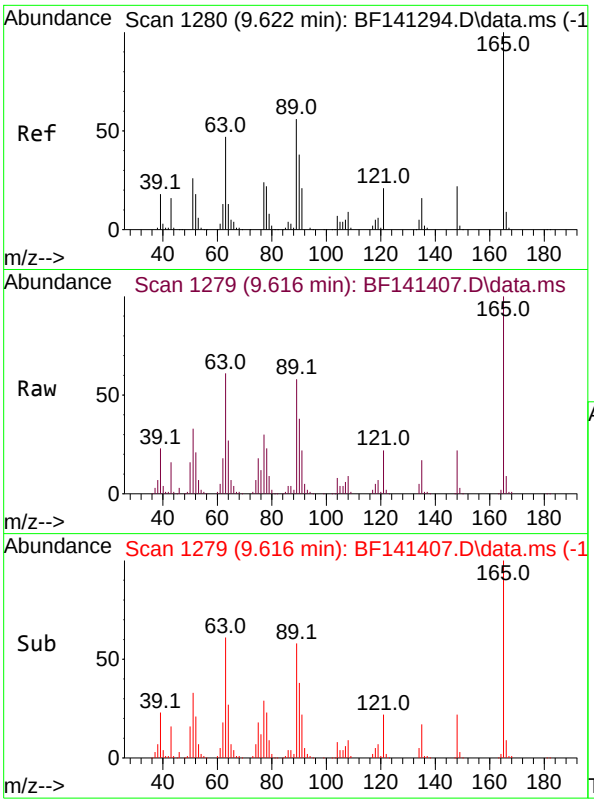


#50
Dimethylphthalate
Concen: 48.572 ng
RT: 9.557 min Scan# 1269
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:163 Resp: 593755

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.2	8.0	12.0



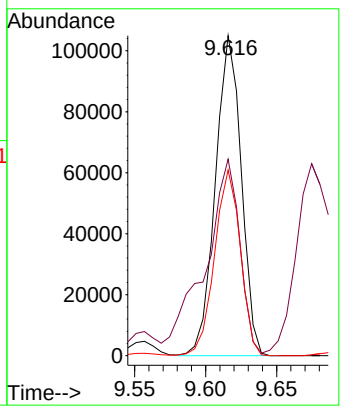


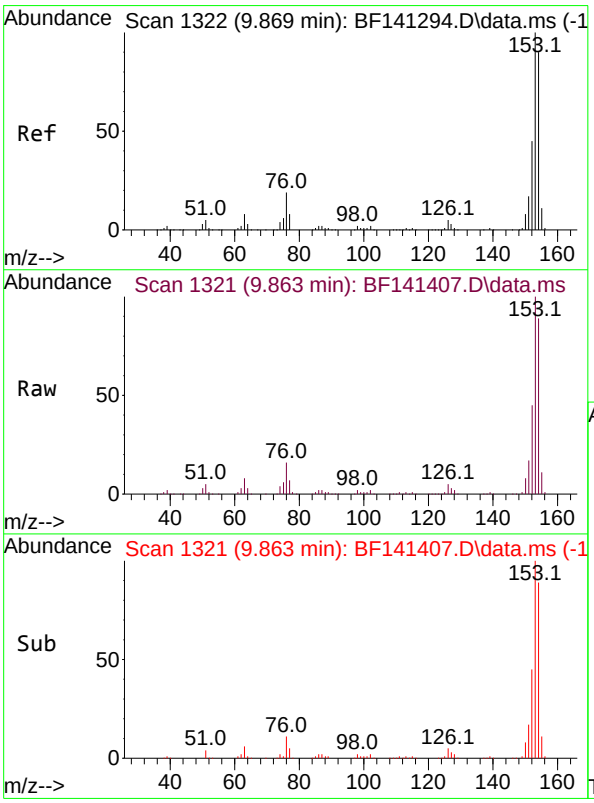
#51
2,6-Dinitrotoluene
Concen: 46.808 ng
RT: 9.616 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:165 Resp: 132856

Ion	Ratio	Lower	Upper
165	100		
63	61.4	48.1	72.1
89	58.0	44.9	67.3

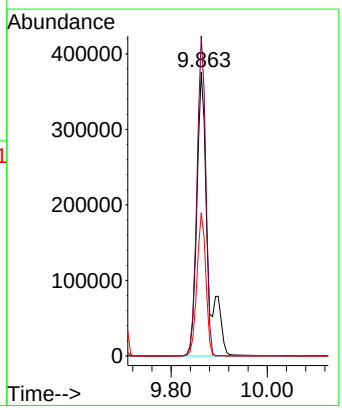


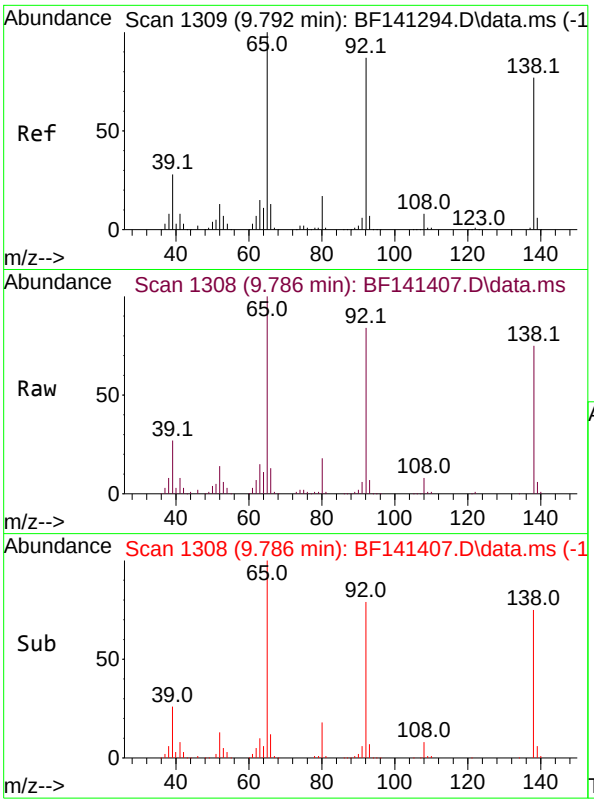


#52
Acenaphthene
Concen: 53.779 ng m
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:154 Resp: 591701

Ion	Ratio	Lower	Upper
154	100		
153	112.8	89.0	133.4
152	50.5	40.2	60.4



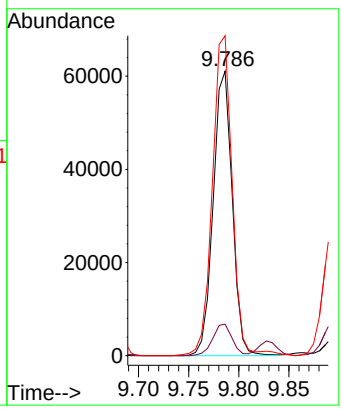


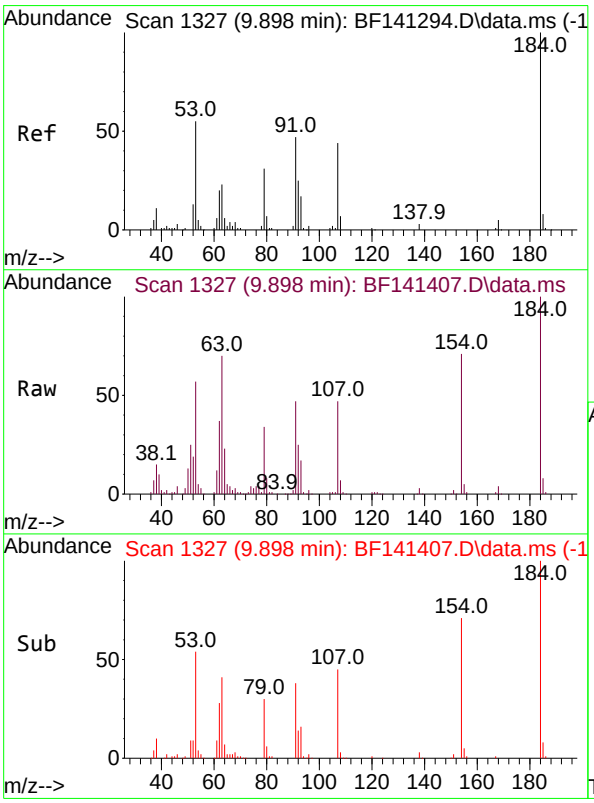
#53
3-Nitroaniline
Concen: 29.013 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:138 Resp: 80709

Ion	Ratio	Lower	Upper
138	100		
108	11.1	8.6	12.8
92	112.5	91.0	136.6

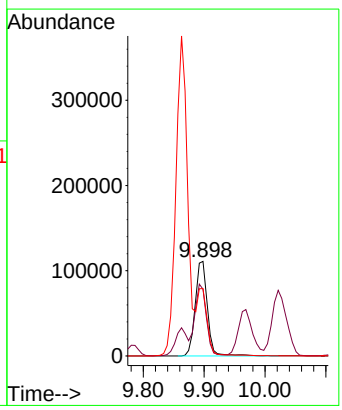


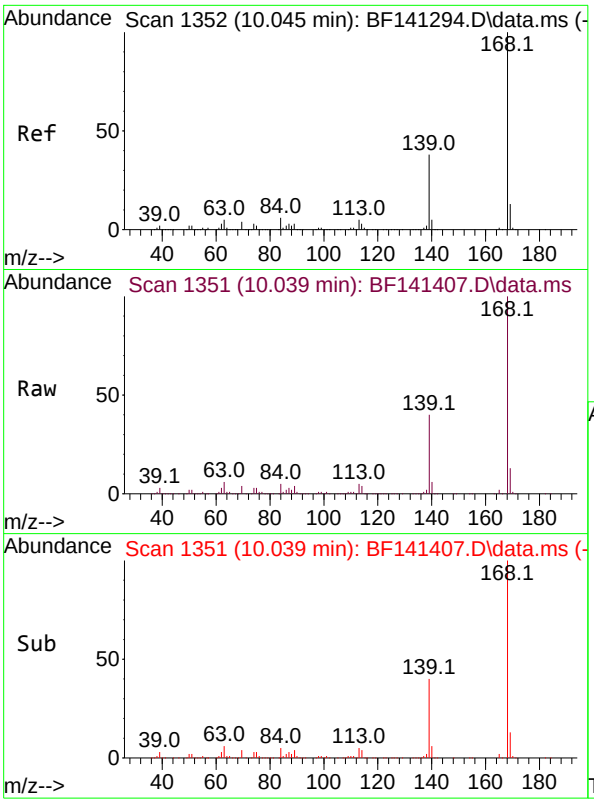


#54
2,4-Dinitrophenol
Concen: 117.244 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:184 Resp: 154693

Ion	Ratio	Lower	Upper
184	100		
63	70.5	54.1	81.1
154	71.2	50.7	76.1



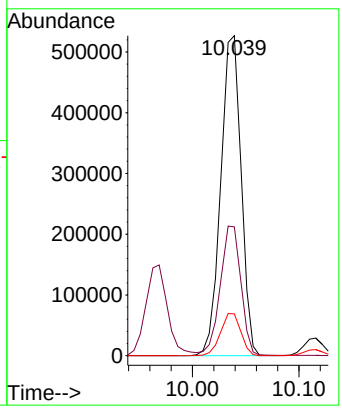


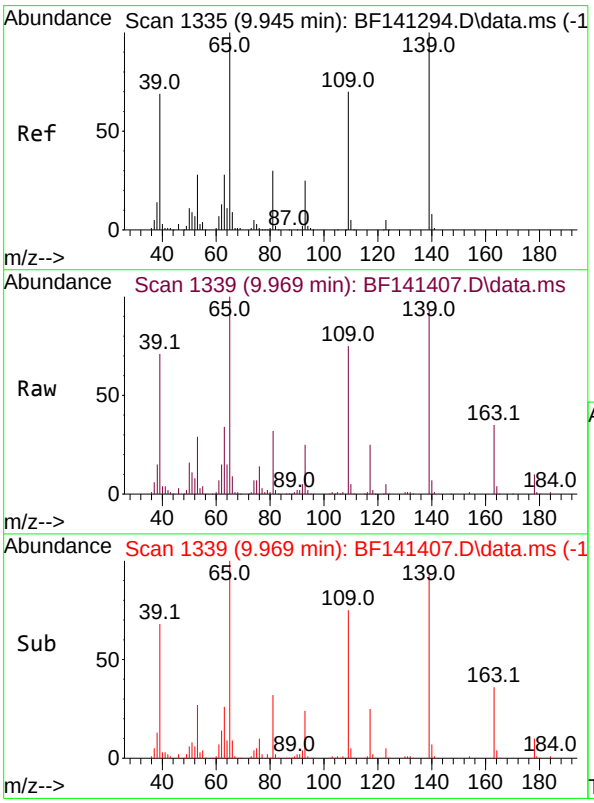
#55
Dibenzofuran
Concen: 47.547 ng
RT: 10.039 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:168 Resp: 700235

Ion	Ratio	Lower	Upper
168	100		
139	40.3	30.6	46.0
169	13.1	10.8	16.2

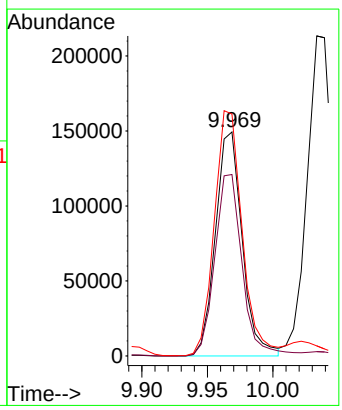


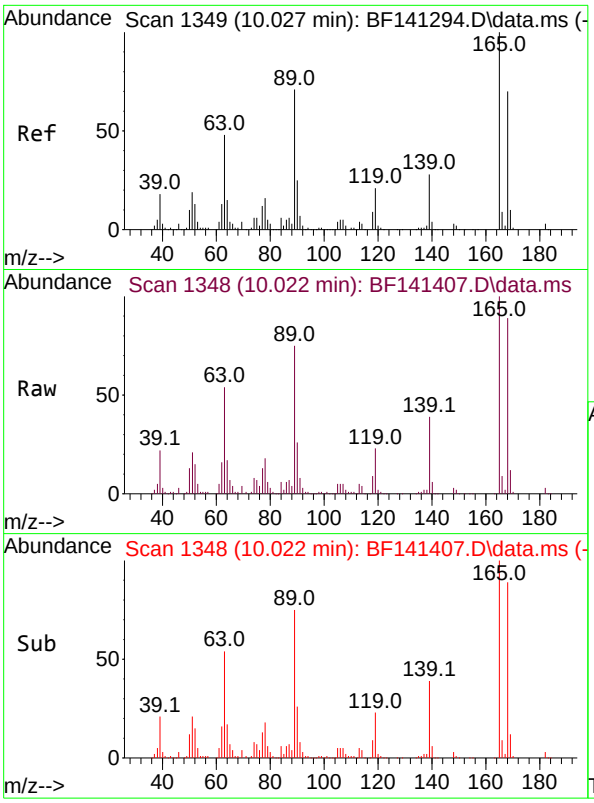


#56
4-Nitrophenol
Concen: 104.299 ng
RT: 9.969 min Scan# 1339
Delta R.T. 0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:139 Resp: 212195

Ion	Ratio	Lower	Upper
139	100		
109	81.0	50.2	90.2
65	108.0	80.6	120.6



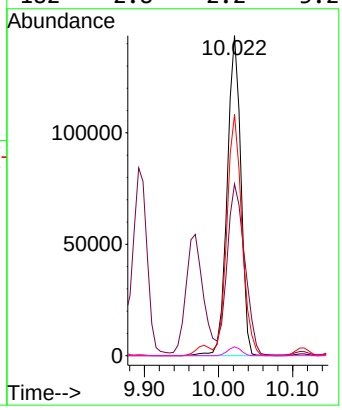


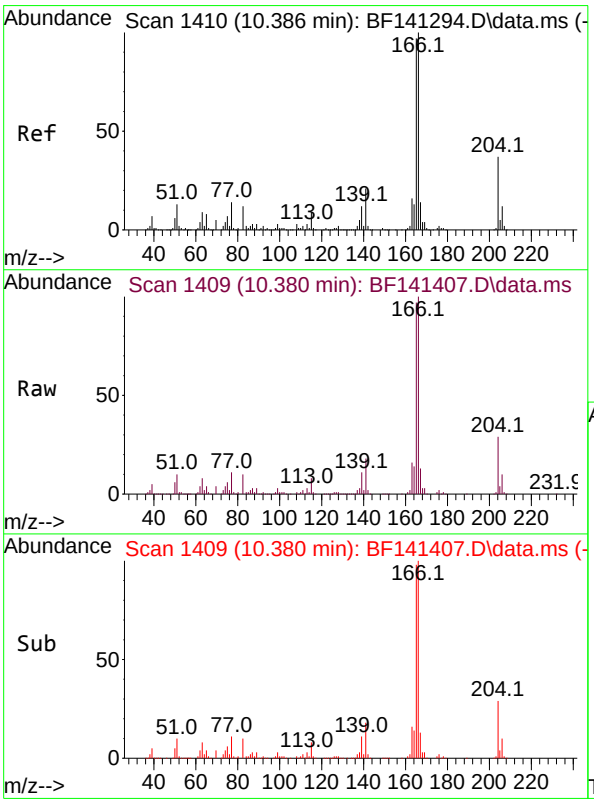
#57
2,4-Dinitrotoluene
Concen: 50.028 ng
RT: 10.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:165 Resp: 183846

Ion	Ratio	Lower	Upper
165	100		
63	53.6	39.2	58.8
89	75.4	56.9	85.3
182	2.8	2.2	3.2

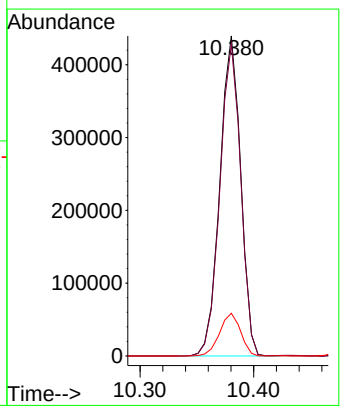


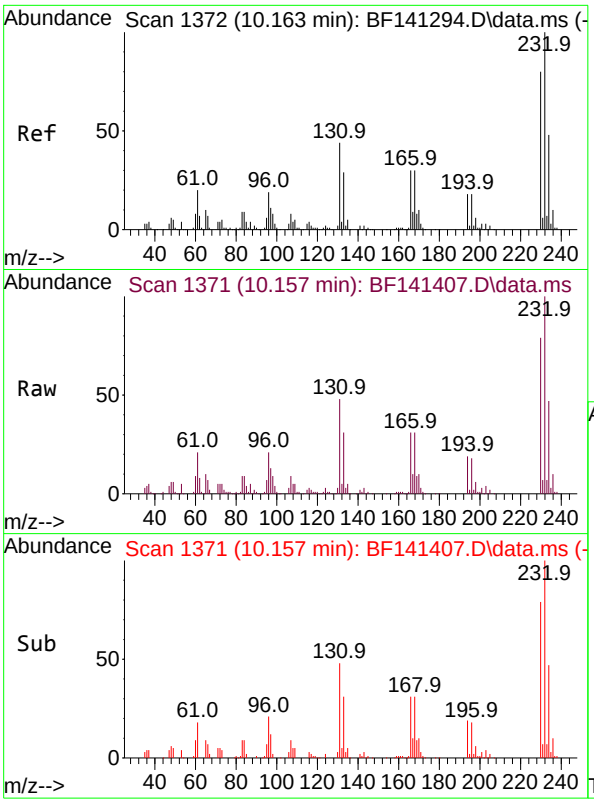


#58
Fluorene
Concen: 49.031 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:166 Resp: 560118

Ion	Ratio	Lower	Upper
166	100		
165	97.4	77.5	116.3
167	13.4	10.9	16.3



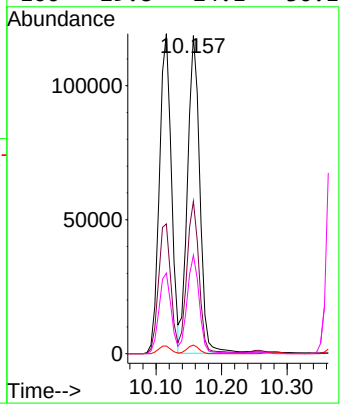


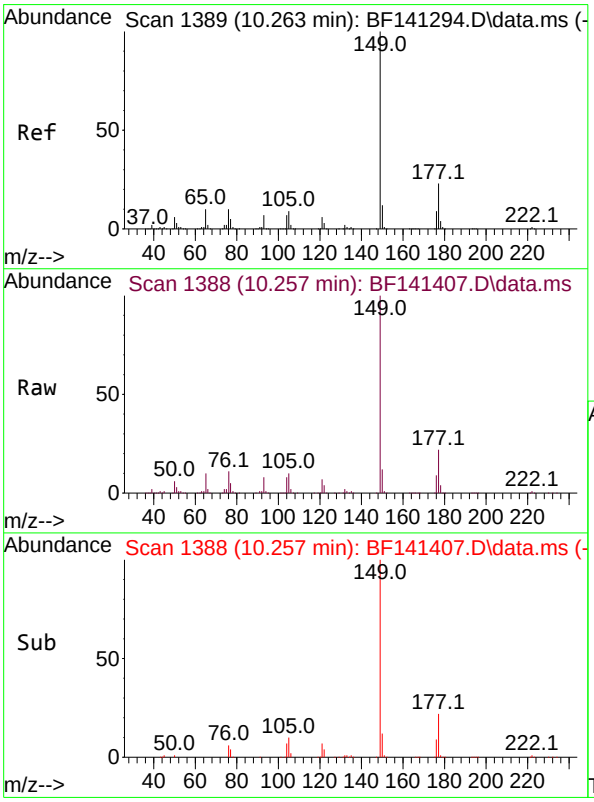
#59
2,3,4,6-Tetrachlorophenol
Concen: 53.634 ng
RT: 10.157 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:232 Resp: 154775

Ion	Ratio	Lower	Upper
232	100		
131	47.8	36.4	54.6
130	2.6	1.9	2.9
166	29.8	24.1	36.1

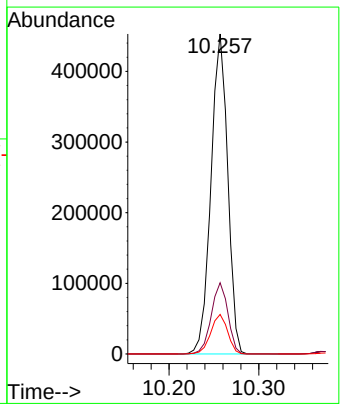


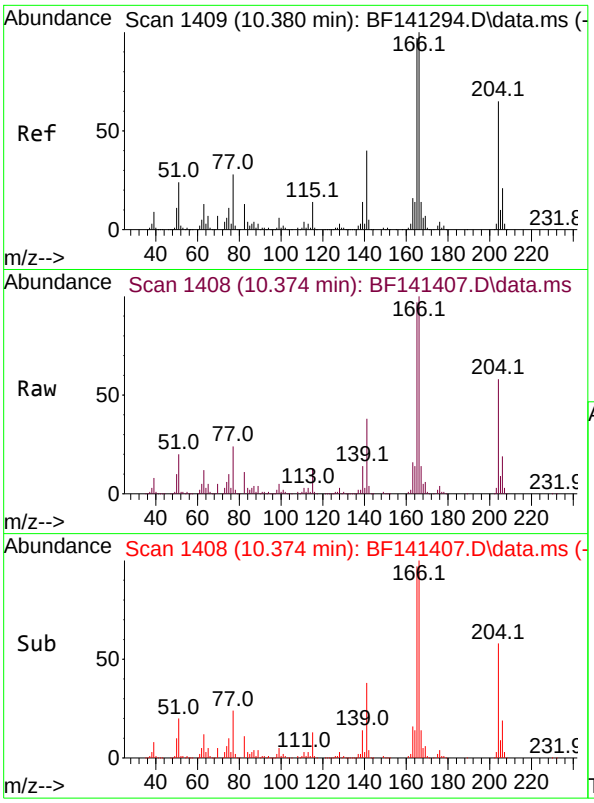


#60
Diethylphthalate
Concen: 49.503 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:149 Resp: 586751

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.5	27.7
150	12.3	10.0	15.0



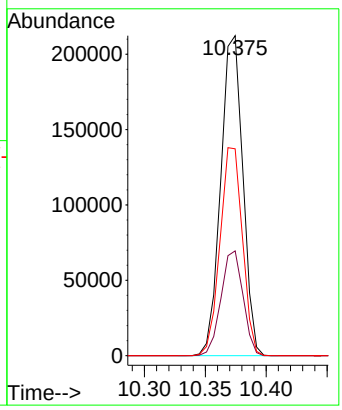


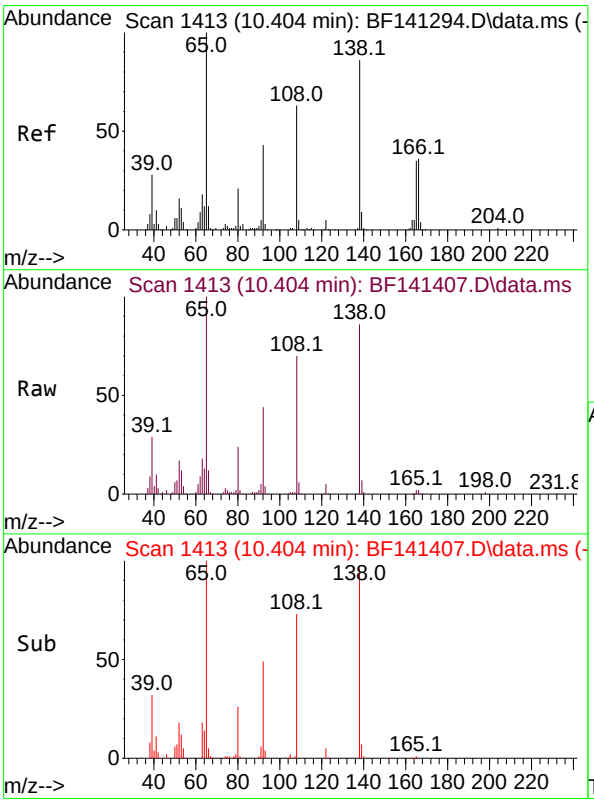
#61
4-Chlorophenyl-phenylether
Concen: 48.191 ng
RT: 10.374 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:204 Resp: 268913

Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.9	38.9
141	64.6	49.5	74.3

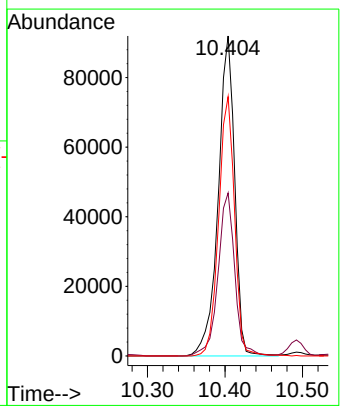


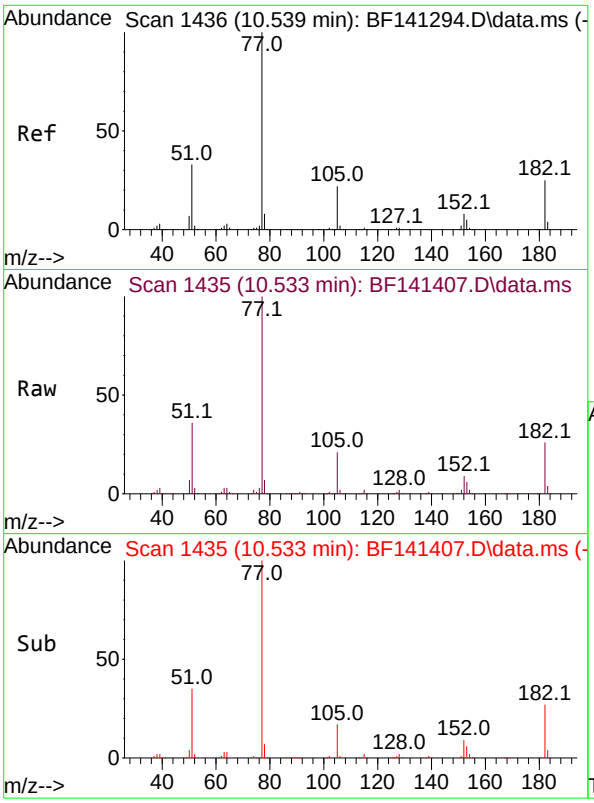


#62
4-Nitroaniline
Concen: 49.710 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:138 Resp: 135954

Ion	Ratio	Lower	Upper
138	100		
92	51.0	30.1	70.1
108	81.0	53.1	93.1



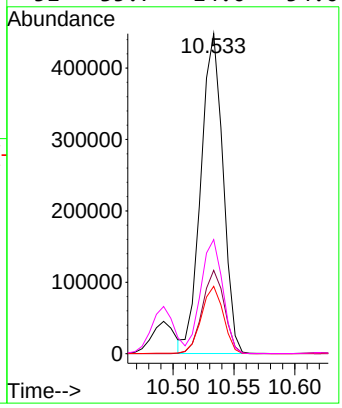


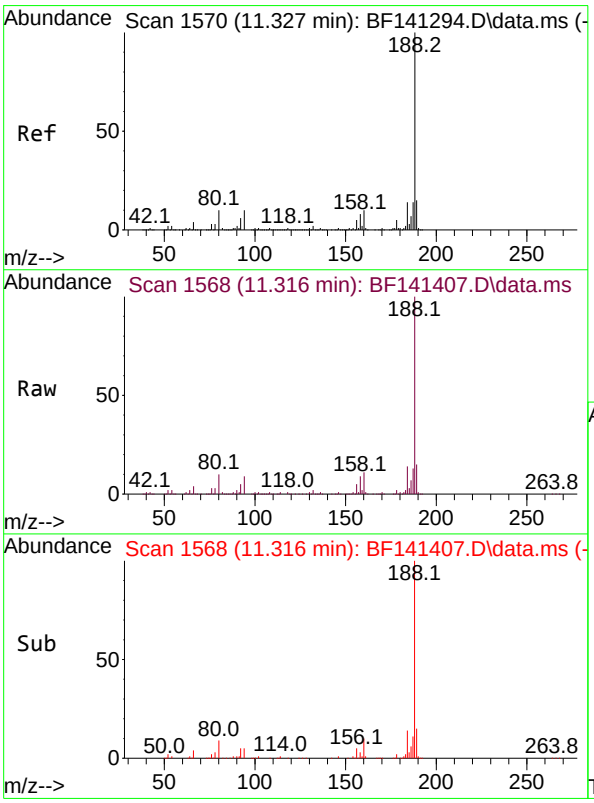
#63
Azobenzene
Concen: 47.614 ng
RT: 10.533 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion: 77 Resp: 564907

Ion	Ratio	Lower	Upper
77	100		
182	26.1	5.1	45.1
105	21.0	1.8	41.8
51	35.7	14.0	54.0

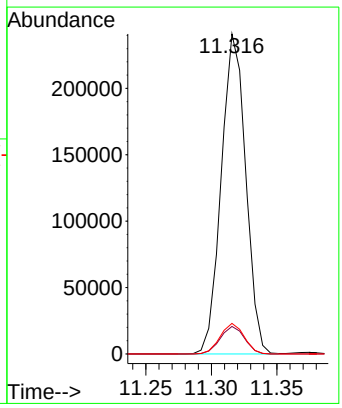


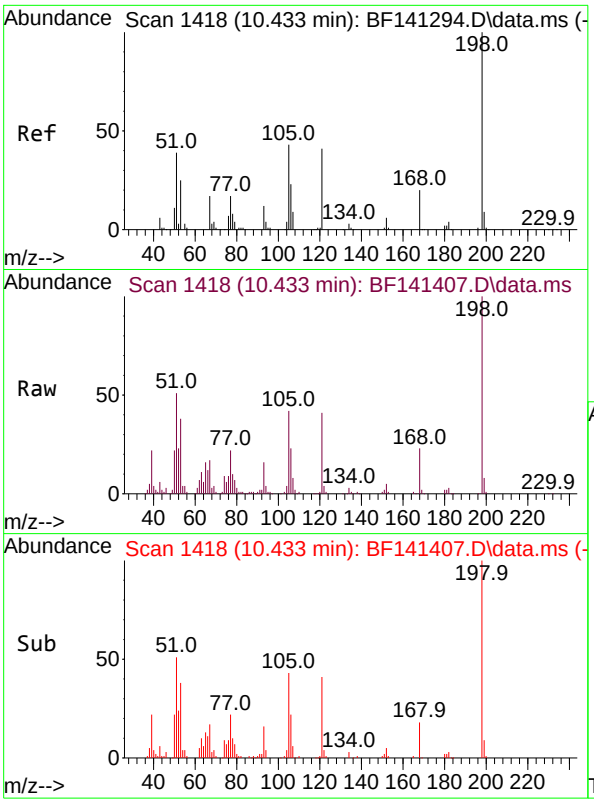


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:188 Resp: 312610

Ion	Ratio	Lower	Upper
188	100		
94	8.6	7.8	11.6
80	9.6	8.2	12.4



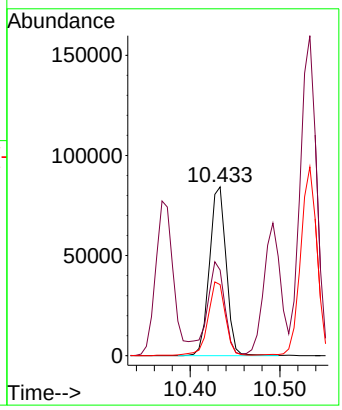


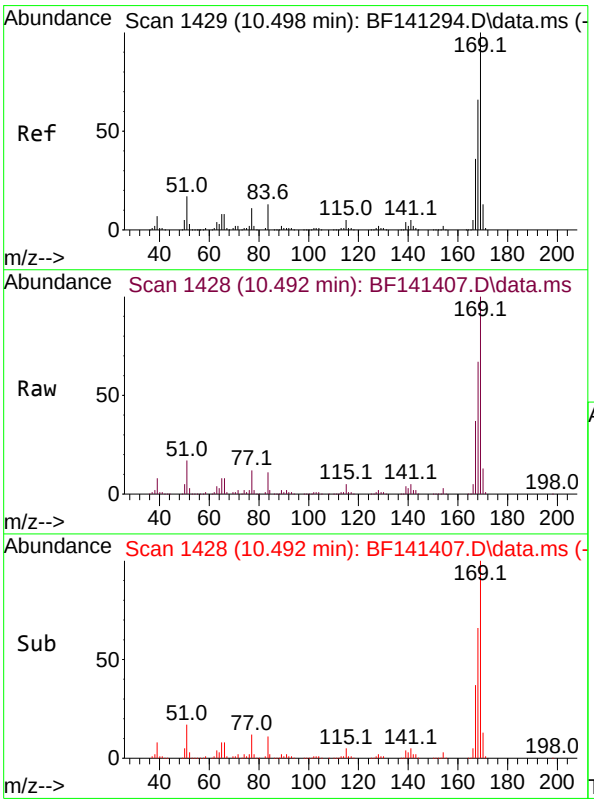
#65
4,6-Dinitro-2-methylphenol
Concen: 58.982 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:198 Resp: 109062

Ion	Ratio	Lower	Upper
198	100		
51	50.7	33.4	73.4
105	42.1	24.4	64.4

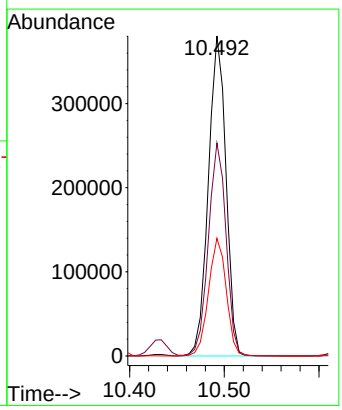


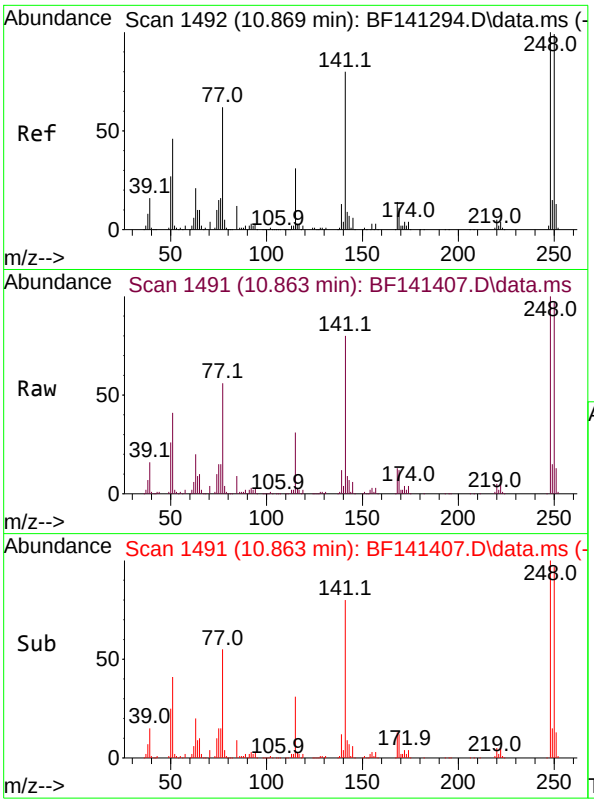


#66
n-Nitrosodiphenylamine
Concen: 48.499 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:169 Resp: 490366

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.0	79.4
167	36.7	28.8	43.2



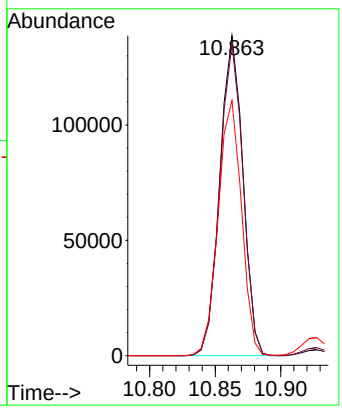


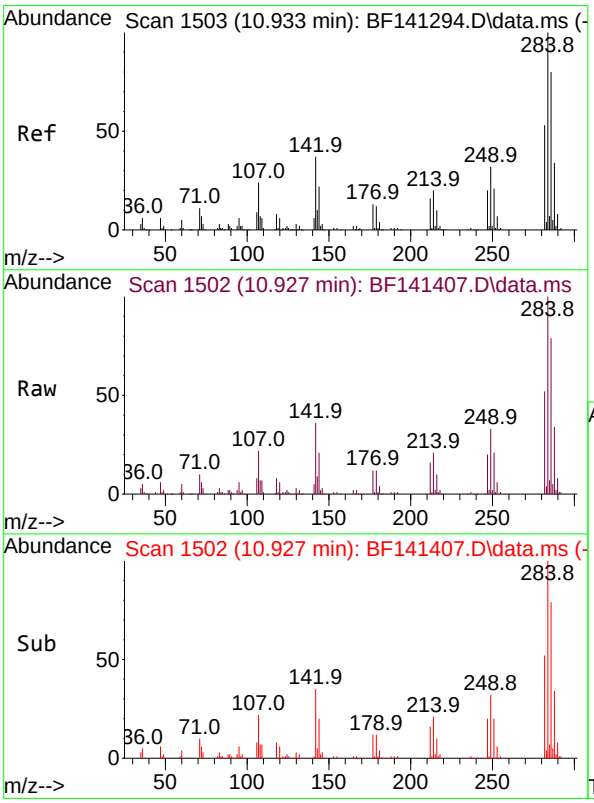
#67
4-Bromophenyl-phenylether
Concen: 48.562 ng
RT: 10.863 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:248 Resp: 169955

Ion	Ratio	Lower	Upper
248	100		
250	97.2	79.0	118.4
141	79.7	63.7	95.5

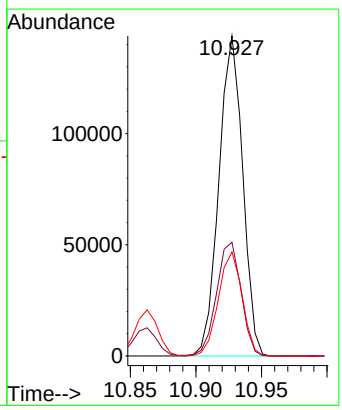


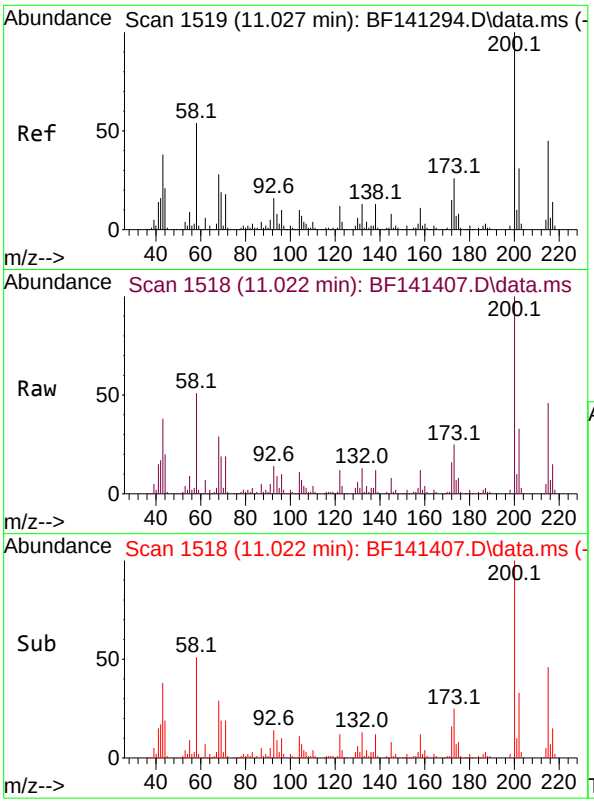


#68
Hexachlorobenzene
Concen: 48.853 ng
RT: 10.927 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:284 Resp: 181362

Ion	Ratio	Lower	Upper
284	100		
142	35.5	29.5	44.3
249	32.5	25.4	38.2



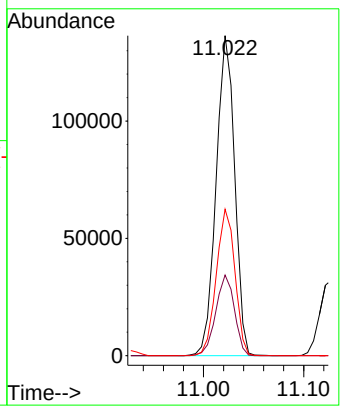


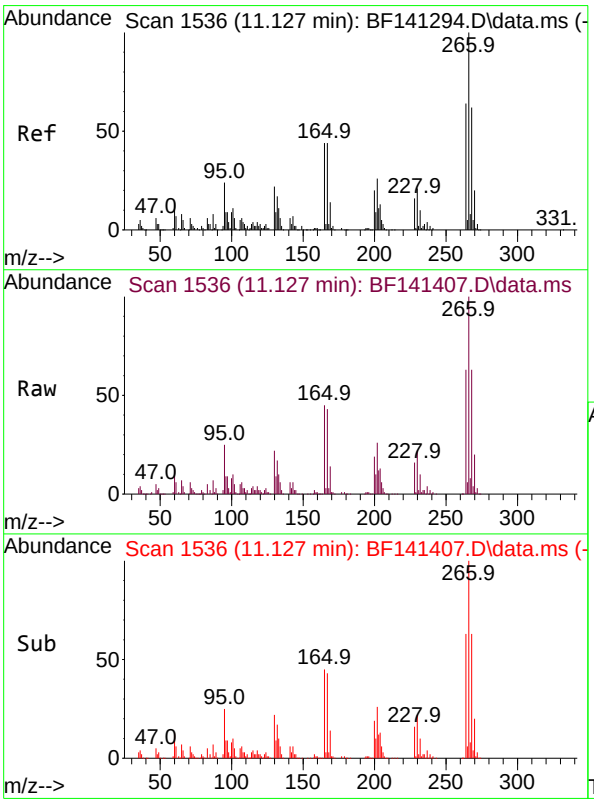
#69
Atrazine
Concen: 51.796 ng
RT: 11.022 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:200 Resp: 175099

Ion	Ratio	Lower	Upper
200	100		
173	25.2	5.9	45.9
215	45.8	25.2	65.2

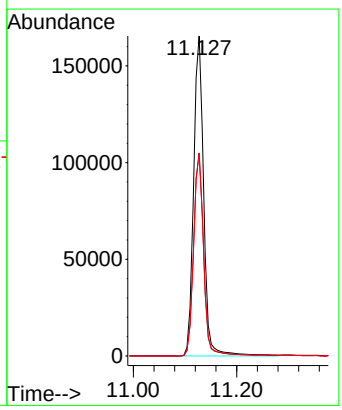


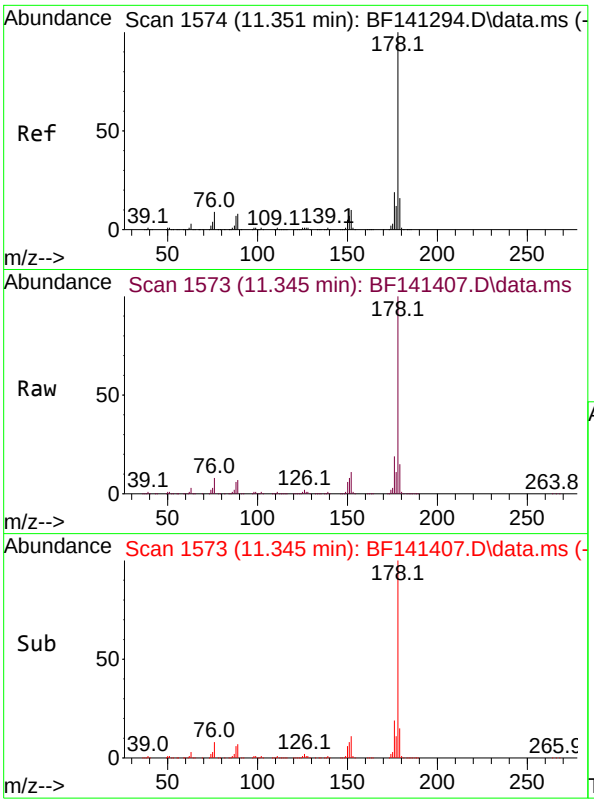


#70
Pentachlorophenol
Concen: 103.193 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:266 Resp: 224331

Ion	Ratio	Lower	Upper
266	100		
268	63.4	49.9	74.9
264	63.3	51.0	76.4



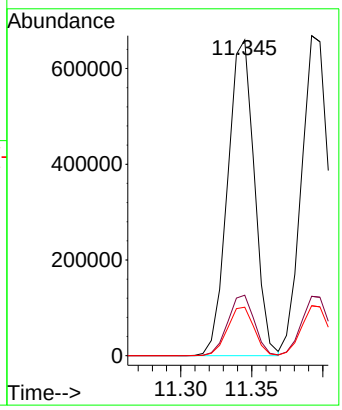


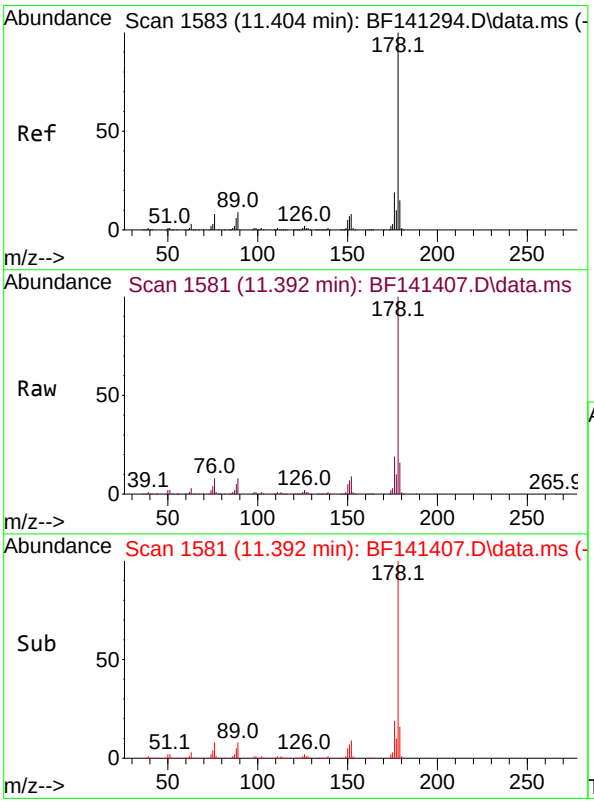
#71
Phenanthrene
Concen: 51.288 ng
RT: 11.345 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:178 Resp: 861852

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.4	12.5	18.7

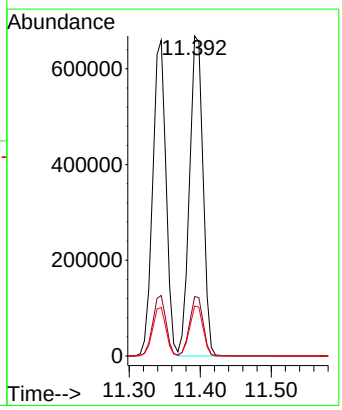


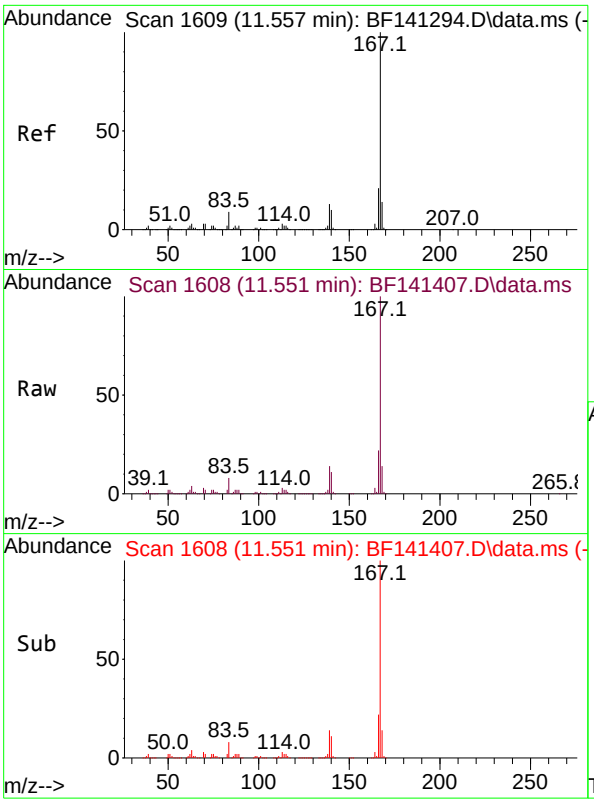


#72
Anthracene
Concen: 53.619 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:178 Resp: 882833

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.6	12.3	18.5



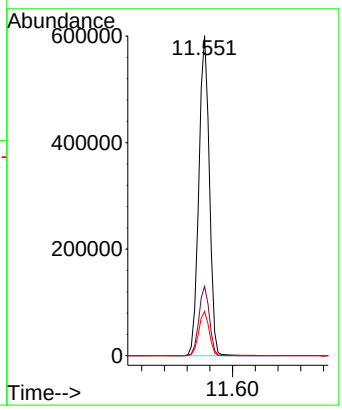


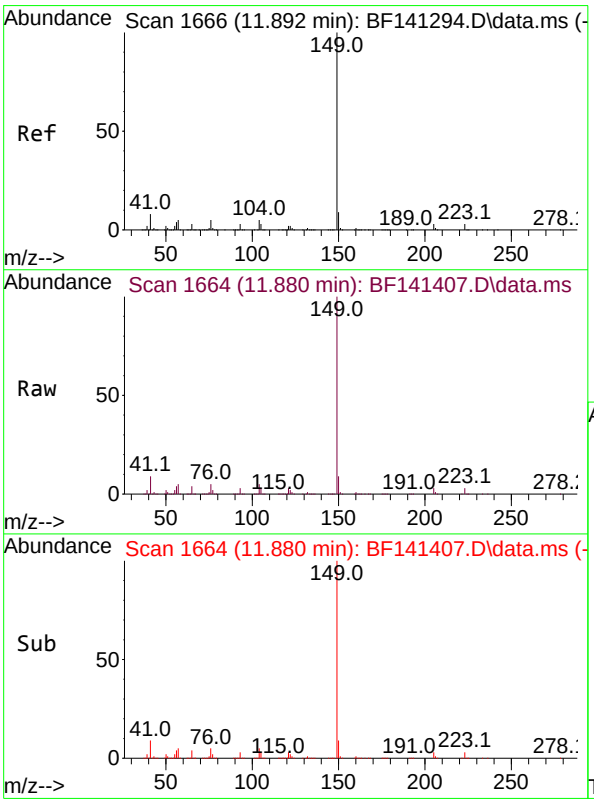
#73
Carbazole
Concen: 52.783 ng
RT: 11.551 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:167 Resp: 770620

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.0	25.6
139	13.8	10.6	16.0

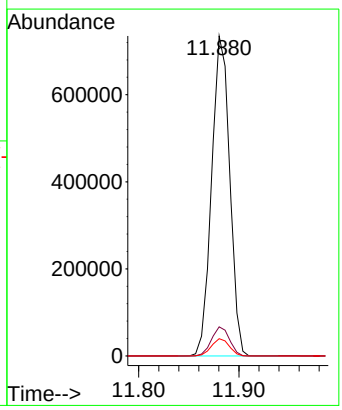


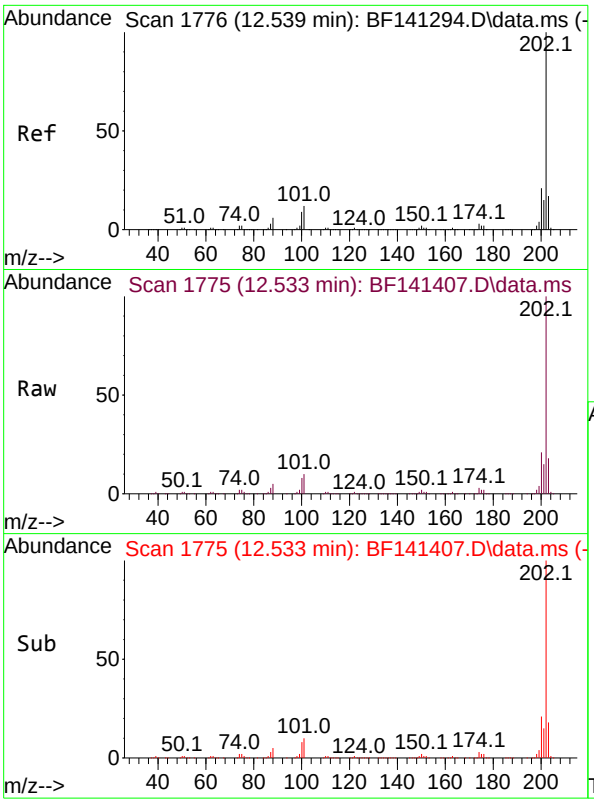


#74
Di-n-butylphthalate
Concen: 52.143 ng
RT: 11.880 min Scan# 1664
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:149 Resp: 922589

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	5.4	3.9	5.9



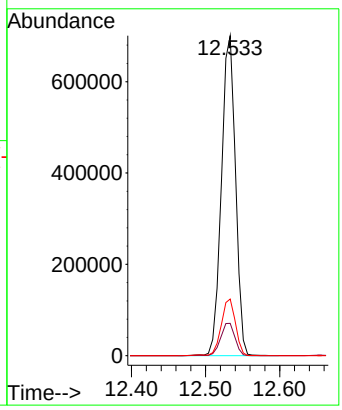


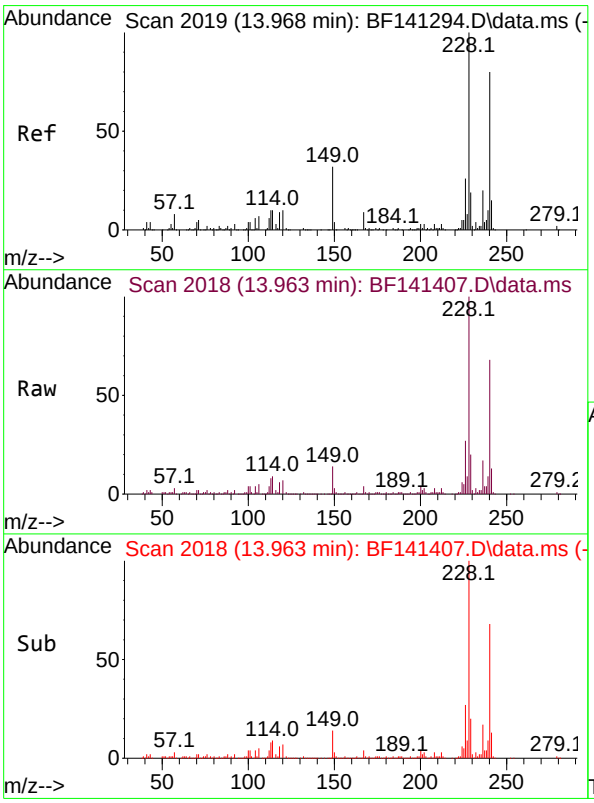
#75
Fluoranthene
Concen: 55.804 ng
RT: 12.533 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:202 Resp: 925902

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	31.7
203	17.7	0.0	37.5

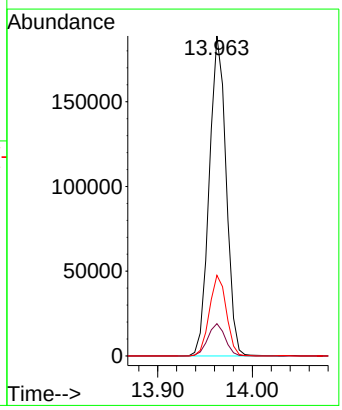


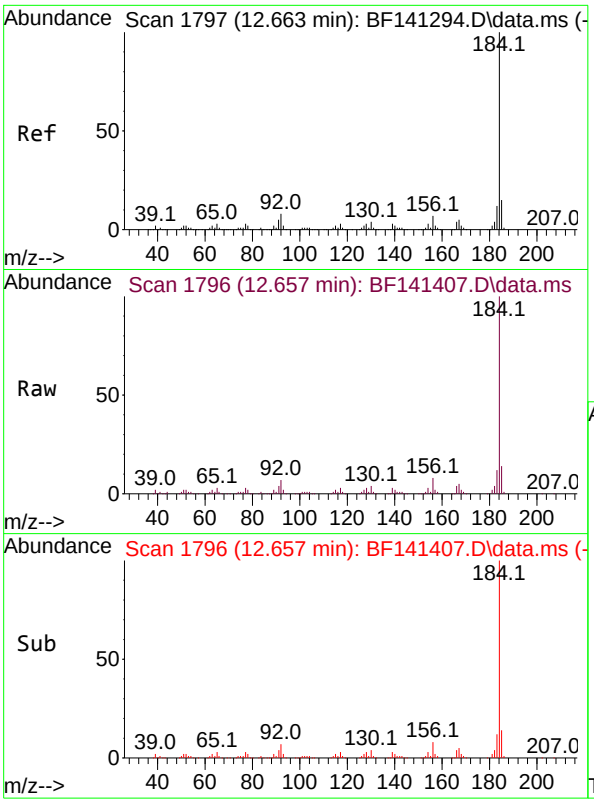


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:240 Resp: 234119

Ion	Ratio	Lower	Upper
240	100		
120	10.1	10.0	15.0
236	25.2	19.7	29.5



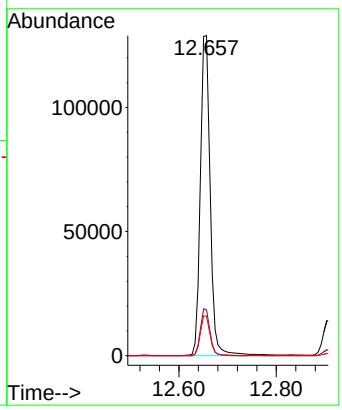


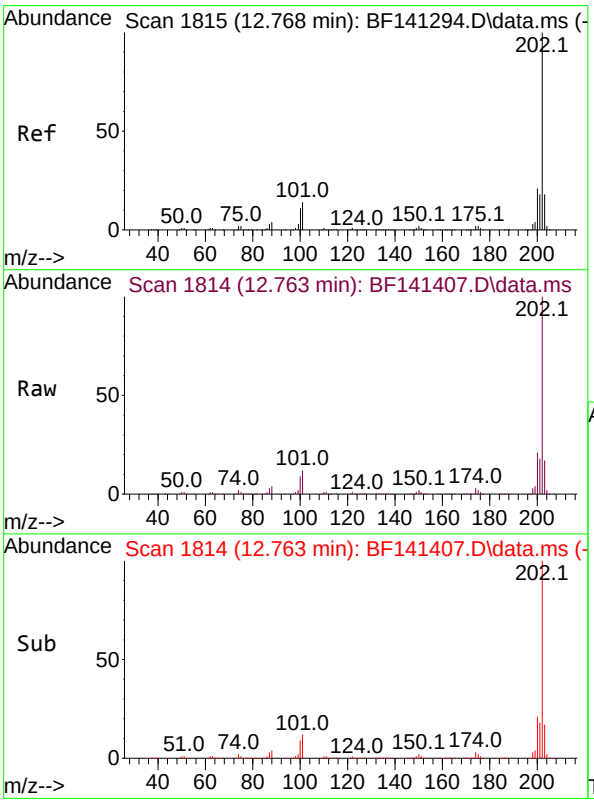
#77
Benzidine
Concen: 24.265 ng
RT: 12.657 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:184 Resp: 182119

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.9	17.9
183	12.3	9.5	14.3

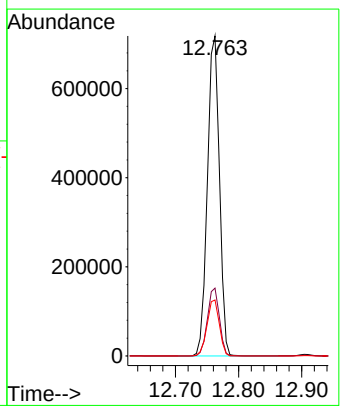


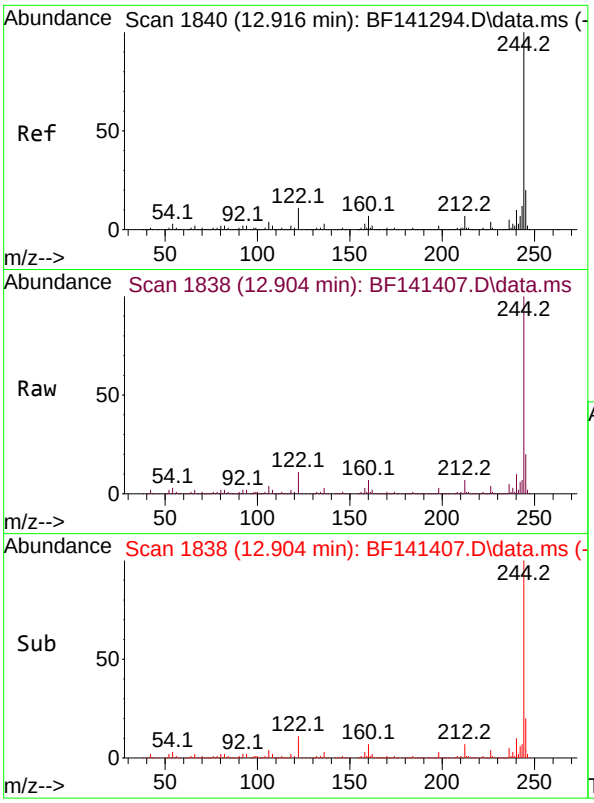


#78
Pyrene
Concen: 42.345 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:202 Resp: 951626

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.5	14.3	21.5



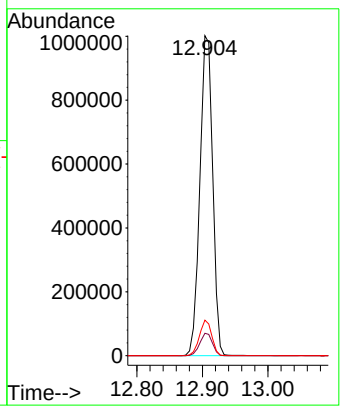


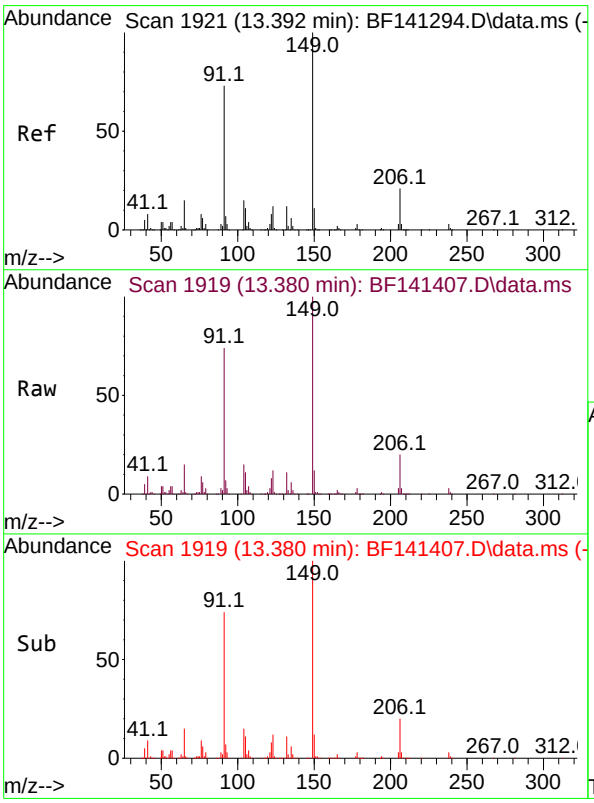
#79
Terphenyl-d14
Concen: 89.945 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:244 Resp: 1365459

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.4	8.0
122	11.1	8.8	13.2

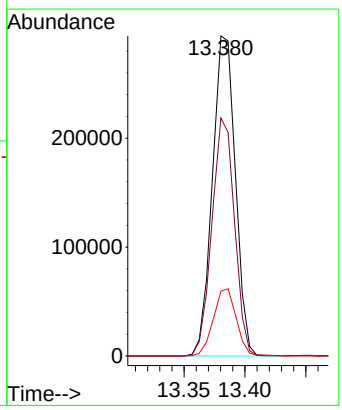


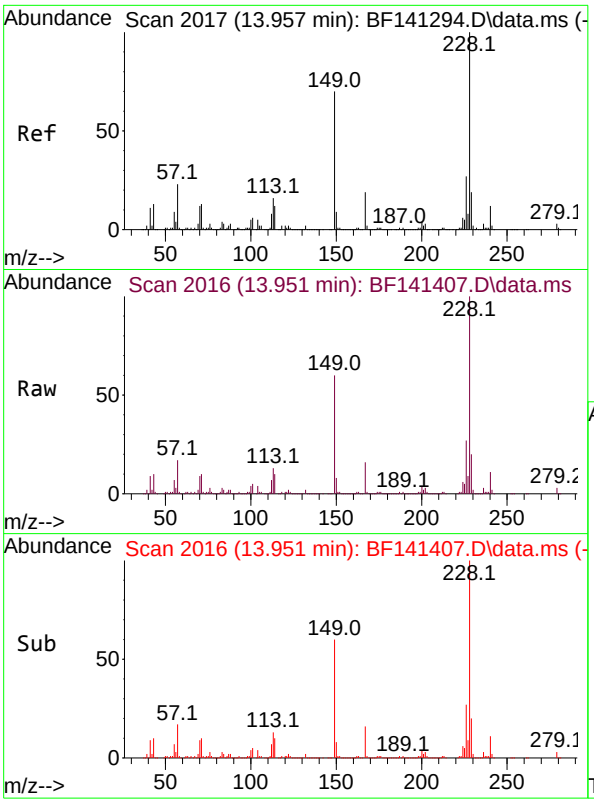


#80
Butylbenzylphthalate
Concen: 49.204 ng
RT: 13.380 min Scan# 1919
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:149 Resp: 386308

Ion	Ratio	Lower	Upper
149	100		
91	74.4	58.6	87.8
206	20.2	16.7	25.1



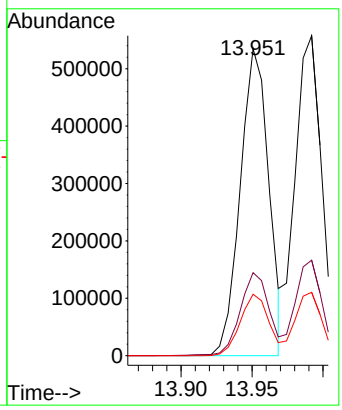


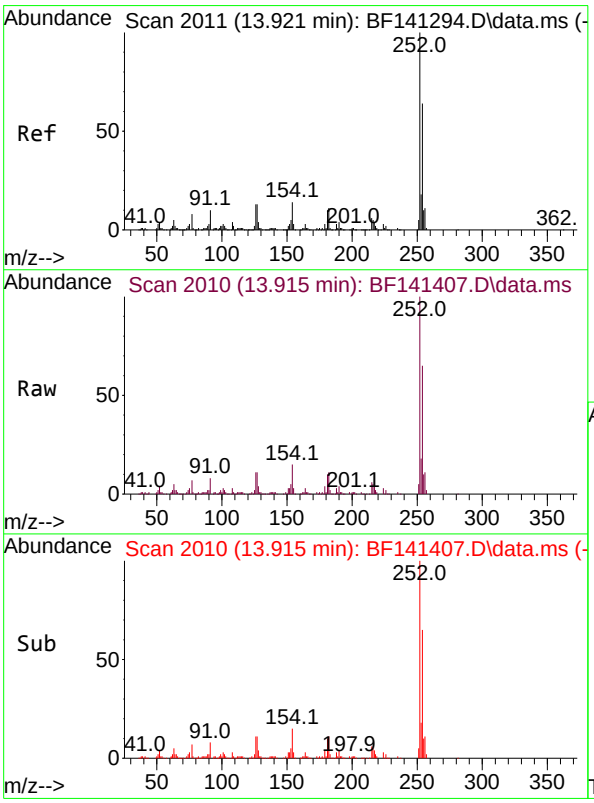
#81
Benzo(a)anthracene
Concen: 46.144 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:228 Resp: 745476

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.2
229	20.0	15.5	23.3

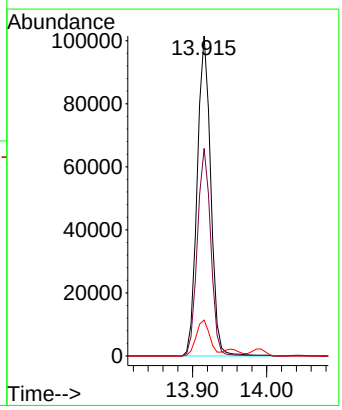


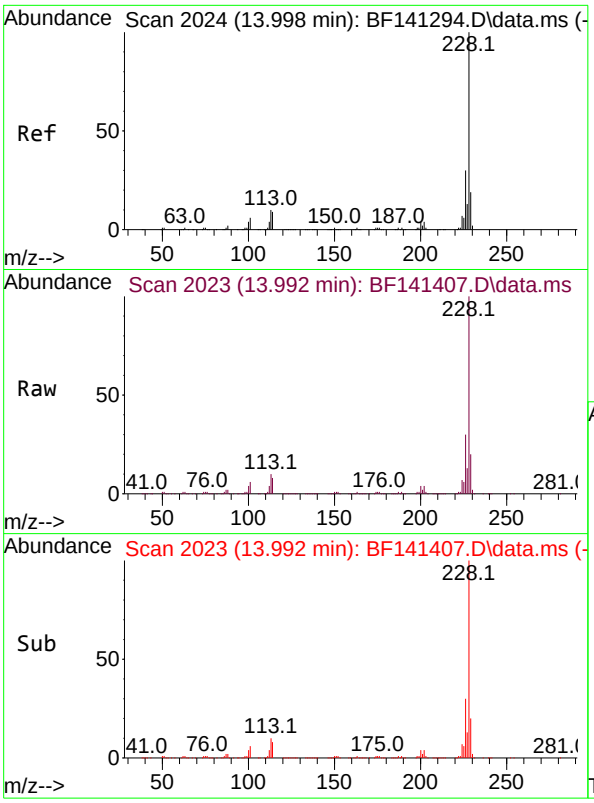


#82
3,3'-Dichlorobenzidine
Concen: 24.949 ng
RT: 13.915 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:252 Resp: 128195

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.3	76.9
126	11.2	10.0	15.0



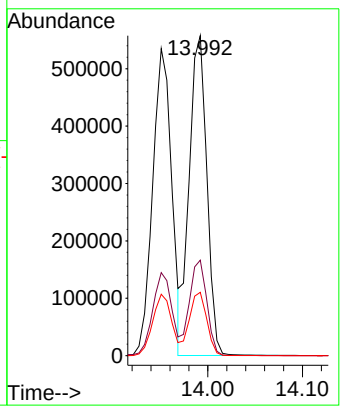


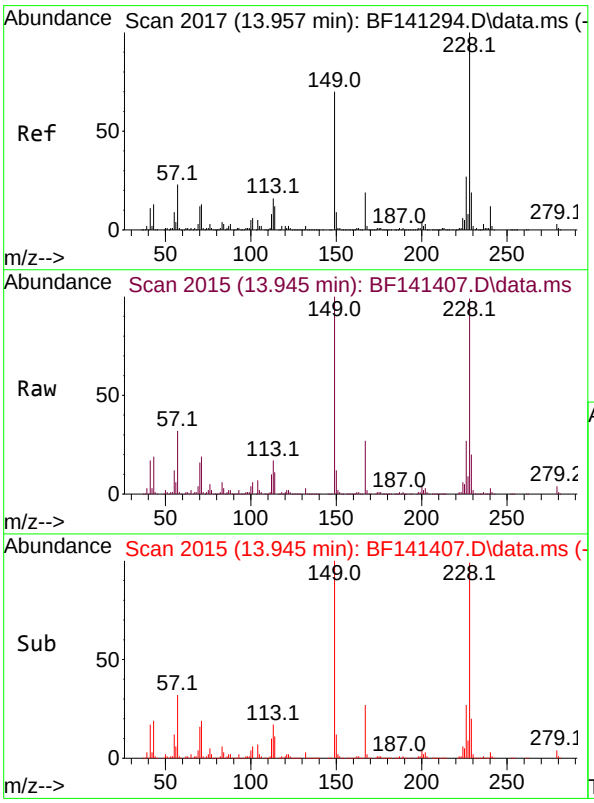
#83
Chrysene
Concen: 48.772 ng
RT: 13.992 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:228 Resp: 722130

Ion	Ratio	Lower	Upper
228	100		
226	29.9	24.1	36.1
229	19.8	15.6	23.4

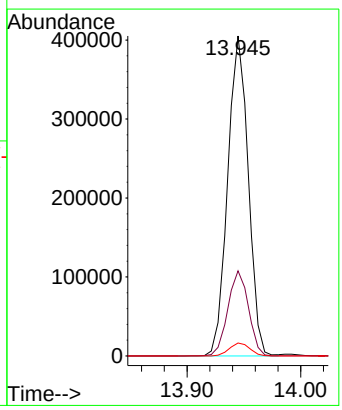


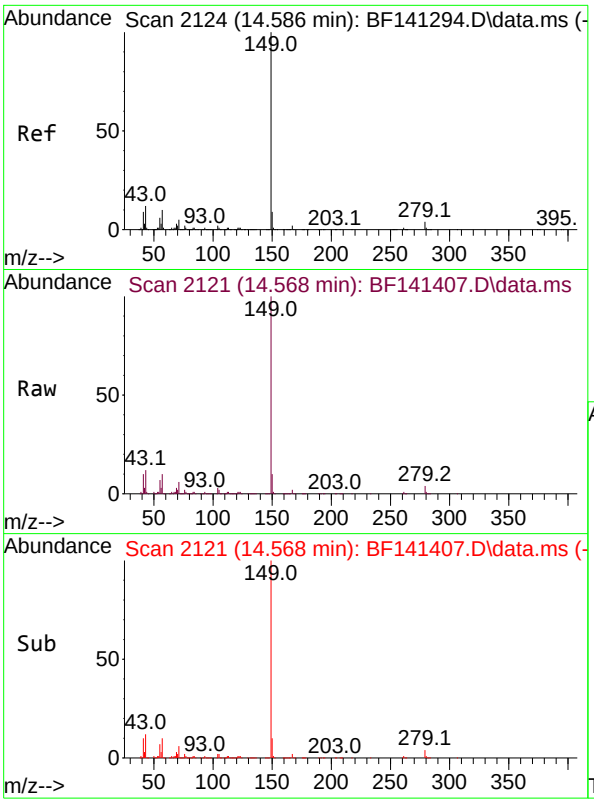


#84
Bis(2-ethylhexyl)phthalate
Concen: 51.156 ng
RT: 13.945 min Scan# 2015
Delta R.T. -0.012 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:149 Resp: 509487

Ion	Ratio	Lower	Upper
149	100		
167	26.6	21.8	32.8
279	4.0	3.3	4.9



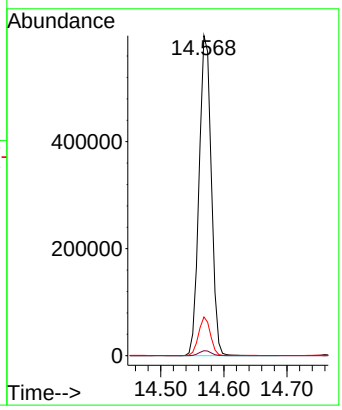


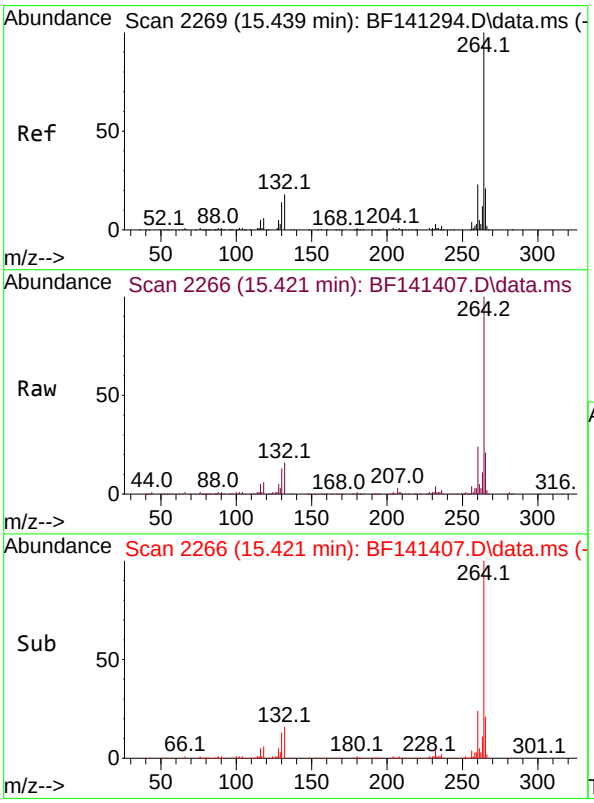
#85
Di-n-octyl phthalate
Concen: 51.792 ng
RT: 14.568 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:149 Resp: 801166

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.3	1.9
43	11.7	9.8	14.8

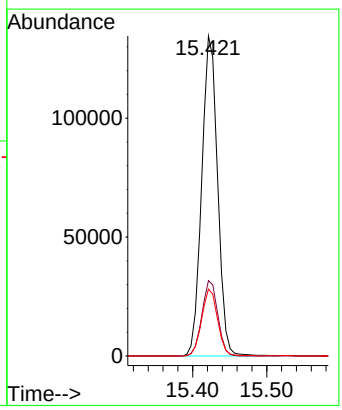


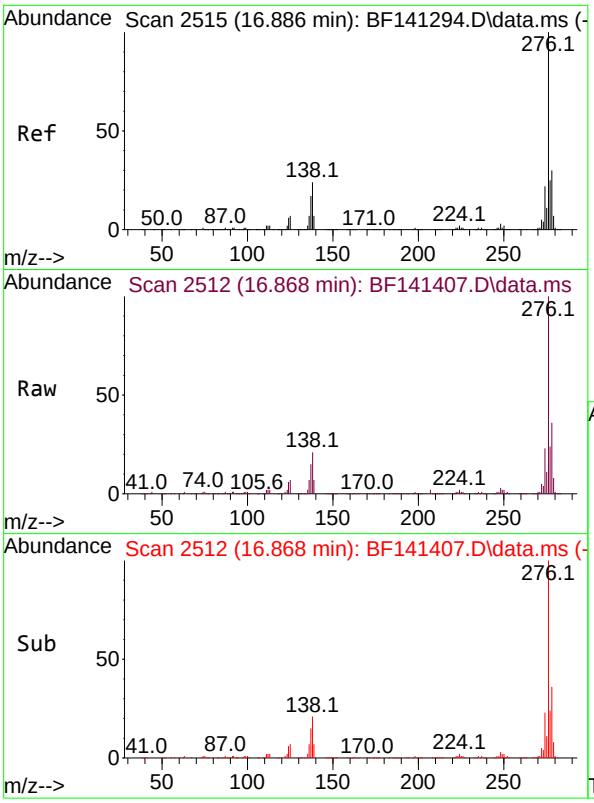


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:264 Resp: 200536

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	27.8
265	20.9	16.7	25.1



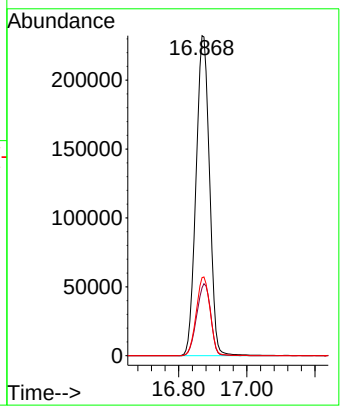


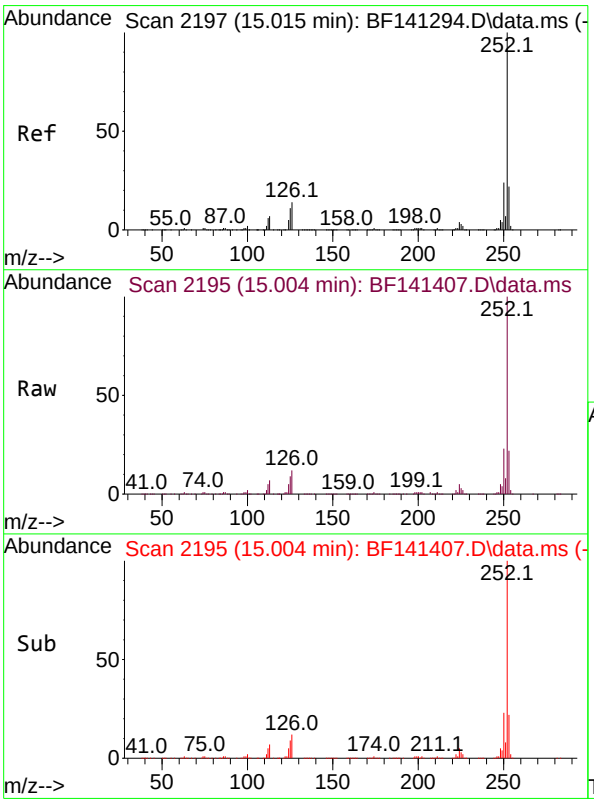
#87
Indeno(1,2,3-cd)pyrene
Concen: 49.309 ng
RT: 16.868 min Scan# 2
Delta R.T. -0.030 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:276 Resp: 638218

Ion	Ratio	Lower	Upper
276	100		
138	23.2	21.7	32.5
277	25.2	20.3	30.5

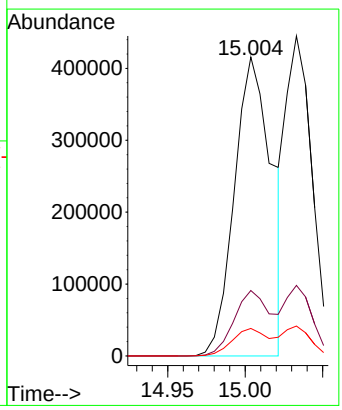


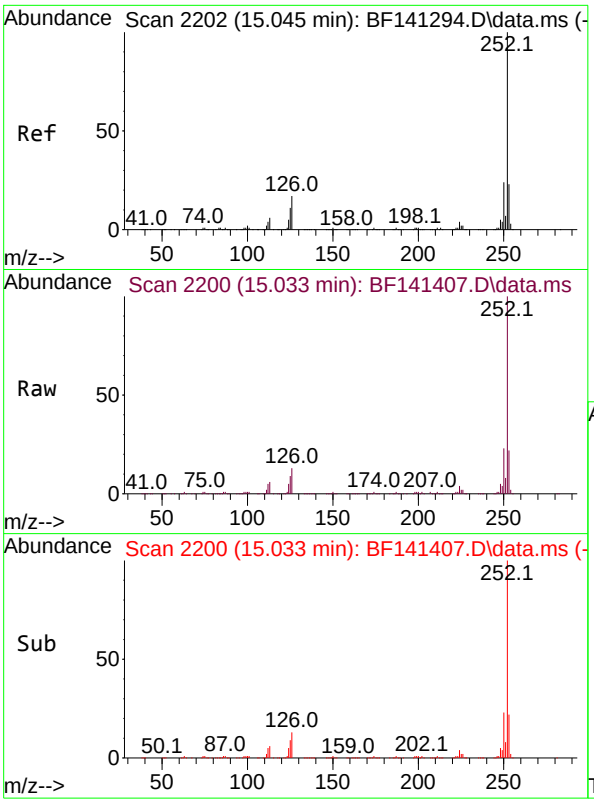


#88
Benzo(b)fluoranthene
Concen: 55.316 ng
RT: 15.004 min Scan# 2195
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:252 Resp: 697768

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	9.2	8.6	12.8



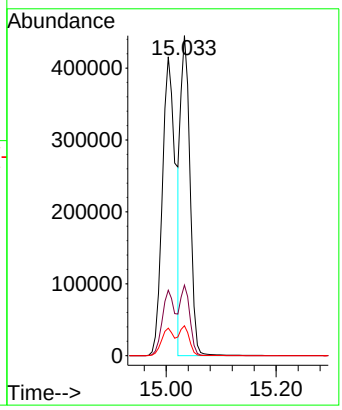


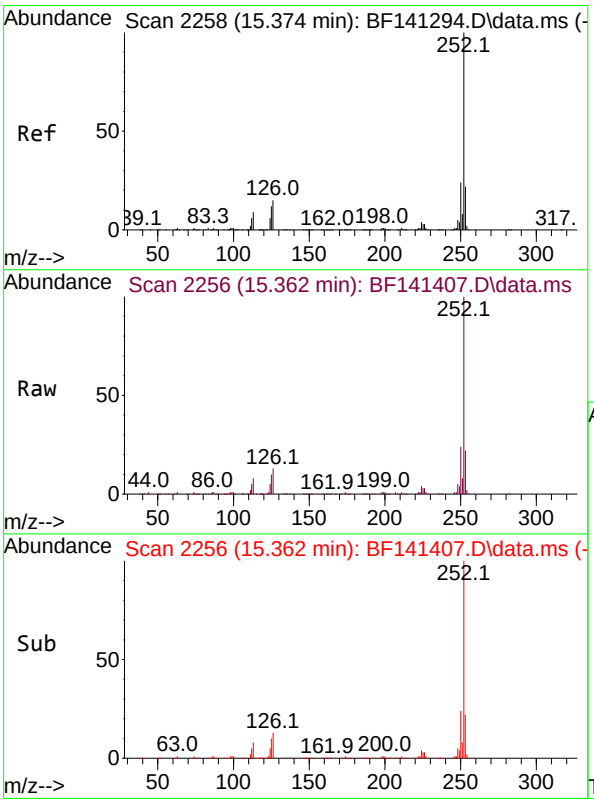
#89
Benzo(k)fluoranthene
Concen: 47.265 ng
RT: 15.033 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:252 Resp: 528168

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	9.3	8.4	12.6

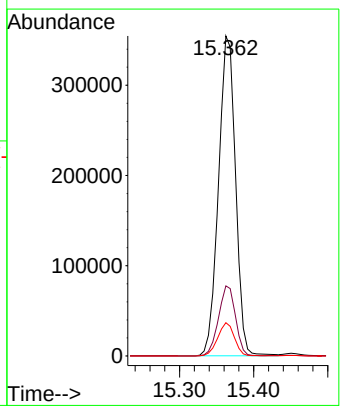


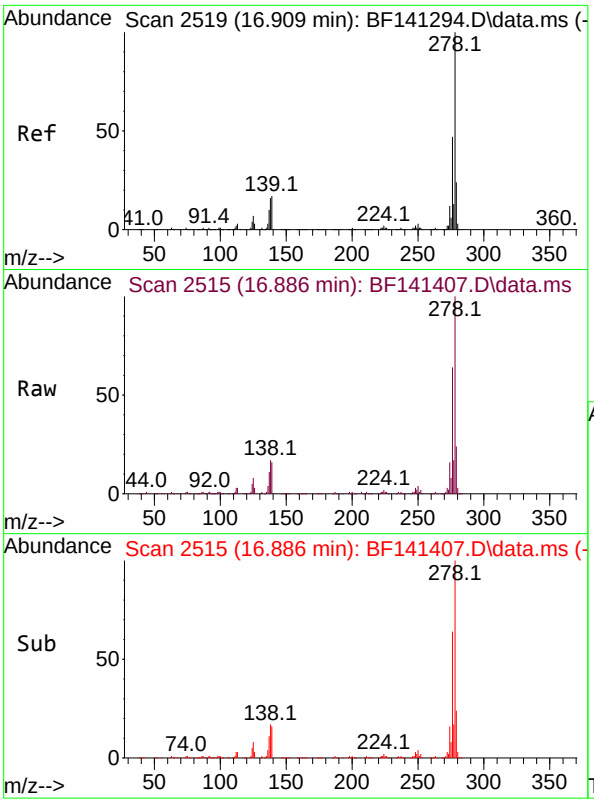


#90
Benzo(a)pyrene
Concen: 53.145 ng
RT: 15.362 min Scan# 2256
Delta R.T. -0.018 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:252 Resp: 566504

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.2	25.8
125	10.4	9.4	14.2



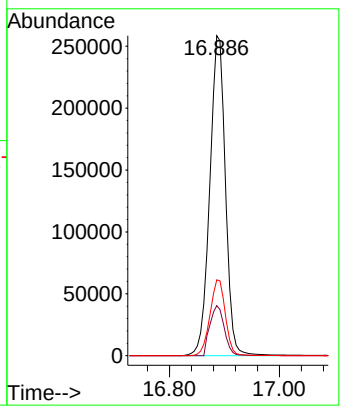


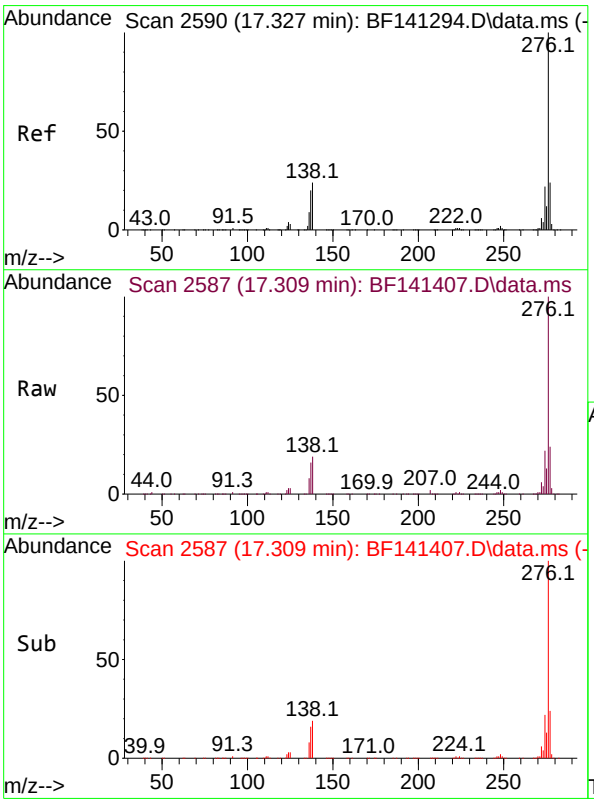
#91
Dibenzo(a,h)anthracene
Concen: 49.118 ng
RT: 16.886 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Instrument :
BNA_F
ClientSampleId :
PB166426BS

Tgt Ion:278 Resp: 511474

Ion	Ratio	Lower	Upper
278	100		
139	15.7	13.9	20.9
279	23.7	18.8	28.2

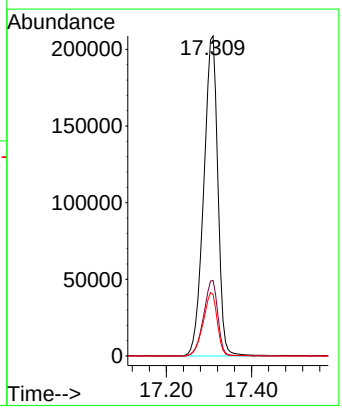




#92
Benzo(g,h,i)perylene
Concen: 44.307 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.035 min
Lab File: BF141407.D
Acq: 04 Feb 2025 14:39

Tgt Ion:276 Resp: 479740

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.2	28.8
138	19.2	19.0	28.4



Raw Data: **BF141339.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	BELL-25-002MS	SDG No.:	Q1235
Lab Sample ID:	Q1218-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141339.D	1	01/31/25 10:29	01/31/25 18:44	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	210		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		8.40	50.0	ug/L
95-48-7	2-Methylphenol	360		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	350		11.5	100	ug/L
67-72-1	Hexachloroethane	380		10.1	50.0	ug/L
98-95-3	Nitrobenzene	480		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	340		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	460		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	420		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	380		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	440		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	980	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	117		10 - 139	78%	SPK: 150
13127-88-3	Phenol-d6	108		10 - 134	72%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.8		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	92.6		52 - 132	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		44 - 137	80%	SPK: 150
1718-51-0	Terphenyl-d14	63.3		48 - 125	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.804			
1146-65-2	Naphthalene-d8	434000	8.081			
15067-26-2	Acenaphthene-d10	209000	9.839			
1517-22-2	Phenanthrene-d10	316000	11.322			
1719-03-5	Chrysene-d12	287000	13.968			
1520-96-3	Perylene-d12	324000	15.427			

Raw Data: **BF141339.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	BELL-25-002MS	SDG No.:	Q1235
Lab Sample ID:	Q1218-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141339.D	1	01/31/25 10:29	01/31/25 18:44	PB166426

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

Sample Results: **BF141339.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141339.D
Acq On : 31 Jan 2025 18:44
Operator : RC/JU
Sample : Q1218-02MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 22:30:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.804	152	131554	20.000	ng		0.00
21) Naphthalene-d8	8.081	136	434471	20.000	ng		0.00
39) Acenaphthene-d10	9.839	164	208861	20.000	ng		0.00
64) Phenanthrene-d10	11.322	188	316494	20.000	ng		0.00
76) Chrysene-d12	13.968	240	287072	20.000	ng		0.00
86) Perylene-d12	15.427	264	323532	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	1006731	117.483	ng		0.02
7) Phenol-d6	6.445	99	1179948	108.241	ng		0.00
23) Nitrobenzene-d5	7.363	82	765234	92.850	ng		0.00
42) 2,4,6-Tribromophenol	10.633	330	230592	120.428	ng		0.00
45) 2-Fluorobiphenyl	9.163	172	1255992	92.560	ng		0.00
79) Terphenyl-d14	12.910	244	1178895	63.332	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.728	88	145647m	38.647	ng		
3) Pyridine	3.434	79	187577	20.658	ng		98
4) n-Nitrosodimethylamine	3.340	42	195301	37.651	ng		99
6) Aniline	6.469	93	163092	17.674	ng	#	21
8) 2-Chlorophenol	6.592	128	360773	39.280	ng		96
9) Benzaldehyde	6.351	77	153189	24.261	ng		98
10) Phenol	6.457	94	413280	35.764	ng		95
11) bis(2-Chloroethyl)ether	6.540	93	357731	40.375	ng		97
12) 1,3-Dichlorobenzene	6.740	146	362442	35.790	ng		100
13) 1,4-Dichlorobenzene	6.822	146	363387	35.719	ng		99
14) 1,2-Dichlorobenzene	6.969	146	343621	36.070	ng		99
15) Benzyl Alcohol	6.957	79	290713	39.023	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.075	45	598595	38.852	ng		86
17) 2-Methylphenol	7.063	107	270922	36.294	ng		95
18) Hexachloroethane	7.310	117	143756	38.303	ng		98
19) n-Nitroso-di-n-propyla...	7.216	70	240598	37.144	ng		99
20) 3+4-Methylphenols	7.210	107	325334	35.496	ng	#	80
22) Acetophenone	7.210	105	508642	49.252	ng	#	98
24) Nitrobenzene	7.387	77	406912	47.643	ng		98
25) Isophorone	7.628	82	565439	39.690	ng		99
26) 2-Nitrophenol	7.698	139	149802	37.190	ng		93
27) 2,4-Dimethylphenol	7.739	122	223609m	43.614	ng		
28) bis(2-Chloroethoxy)met...	7.834	93	297915	32.783	ng		98
29) 2,4-Dichlorophenol	7.945	162	259327	41.317	ng		100
30) 1,2,4-Trichlorobenzene	8.022	180	285426	39.819	ng		100
31) Naphthalene	8.104	128	881744	38.417	ng		100
32) Benzoic acid	8.381	122	18590870m	3944.485	ng		
33) 4-Chloroaniline	8.175	127	82153	10.555	ng	#	13
34) Hexachlorobutadiene	8.222	225	143844	34.219	ng		99
35) Caprolactam	8.686	113	70743	34.511	ng		92
36) 4-Chloro-3-methylphenol	8.645	107	265987	39.508	ng		99
37) 2-Methylnaphthalene	8.798	142	600465	41.162	ng		100
38) 1-Methylnaphthalene	8.898	142	582706	40.664	ng		99
40) 1,2,4,5-Tetrachloroben...	8.963	216	302846	50.968	ng		98
41) Hexachlorocyclopentadiene	8.951	237	360130	205.225	ng		100
43) 2,4,6-Trichlorophenol	9.081	196	180517	46.415	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141339.D
Acq On : 31 Jan 2025 18:44
Operator : RC/JU
Sample : Q1218-02MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 31 22:30:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.122	196	179658	42.443	ng	99
46) 1,1'-Biphenyl	9.263	154	828878	50.887	ng	100
47) 2-Chloronaphthalene	9.286	162	553920	43.629	ng	99
48) 2-Nitroaniline	9.386	65	139480	34.927	ng	98
49) Acenaphthylene	9.704	152	790027	44.453	ng	100
50) Dimethylphthalate	9.569	163	588865	41.744	ng	99
51) 2,6-Dinitrotoluene	9.628	165	124531	38.021	ng	92
52) Acenaphthene	9.875	154	605265m	47.672	ng	
53) 3-Nitroaniline	9.798	138	36577	11.394	ng	98
54) 2,4-Dinitrophenol	9.910	184	161698	106.201	ng	98
55) Dibenzofuran	10.051	168	720182	42.376	ng	100
56) 4-Nitrophenol	9.980	139	194516	82.853	ng	98
57) 2,4-Dinitrotoluene	10.033	165	162973	38.431	ng	95
58) Fluorene	10.392	166	543864	41.256	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.169	232	144115	43.276	ng	99
60) Diethylphthalate	10.269	149	540663	39.529	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	266568	41.397	ng	98
62) 4-Nitroaniline	10.404	138	84643	26.819	ng	99
63) Azobenzene	10.539	77	562497	41.085	ng	99
65) 4,6-Dinitro-2-methylph...	10.433	198	92916	49.633	ng	94
66) n-Nitrosodiphenylamine	10.498	169	461781	45.111	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	150571	42.495	ng	98
68) Hexachlorobenzene	10.933	284	165980	44.161	ng	99
69) Atrazine	11.033	200	121271	35.433	ng	98
70) Pentachlorophenol	11.139	266	215923	98.106	ng	99
71) Phenanthrene	11.351	178	745904	43.844	ng	100
72) Anthracene	11.398	178	762409	45.737	ng	100
73) Carbazole	11.557	167	635428	42.989	ng	99
74) Di-n-butylphthalate	11.892	149	806567	45.026	ng	100
75) Fluoranthene	12.539	202	774173	46.086	ng	100
78) Pyrene	12.769	202	806413	29.264	ng	99
80) Butylbenzylphthalate	13.392	149	361248	37.525	ng	98
81) Benzo(a)anthracene	13.957	228	763079	38.521	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	91920	14.589	ng	100
83) Chrysene	13.998	228	769489	42.385	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	493990	40.451	ng	98
85) Di-n-octyl phthalate	14.574	149	941792	49.652	ng	99
87) Indeno(1,2,3-cd)pyrene	16.880	276	807515	38.671	ng	100
88) Benzo(b)fluoranthene	15.010	252	843784	41.462	ng	99
89) Benzo(k)fluoranthene	15.039	252	808333	44.836	ng	100
90) Benzo(a)pyrene	15.368	252	775987	45.122	ng	99
91) Dibenzo(a,h)anthracene	16.898	278	659105	39.232	ng	100
92) Benzo(g,h,i)perylene	17.315	276	602691	34.502	ng	100

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

Sample Results: **BF141339.D**

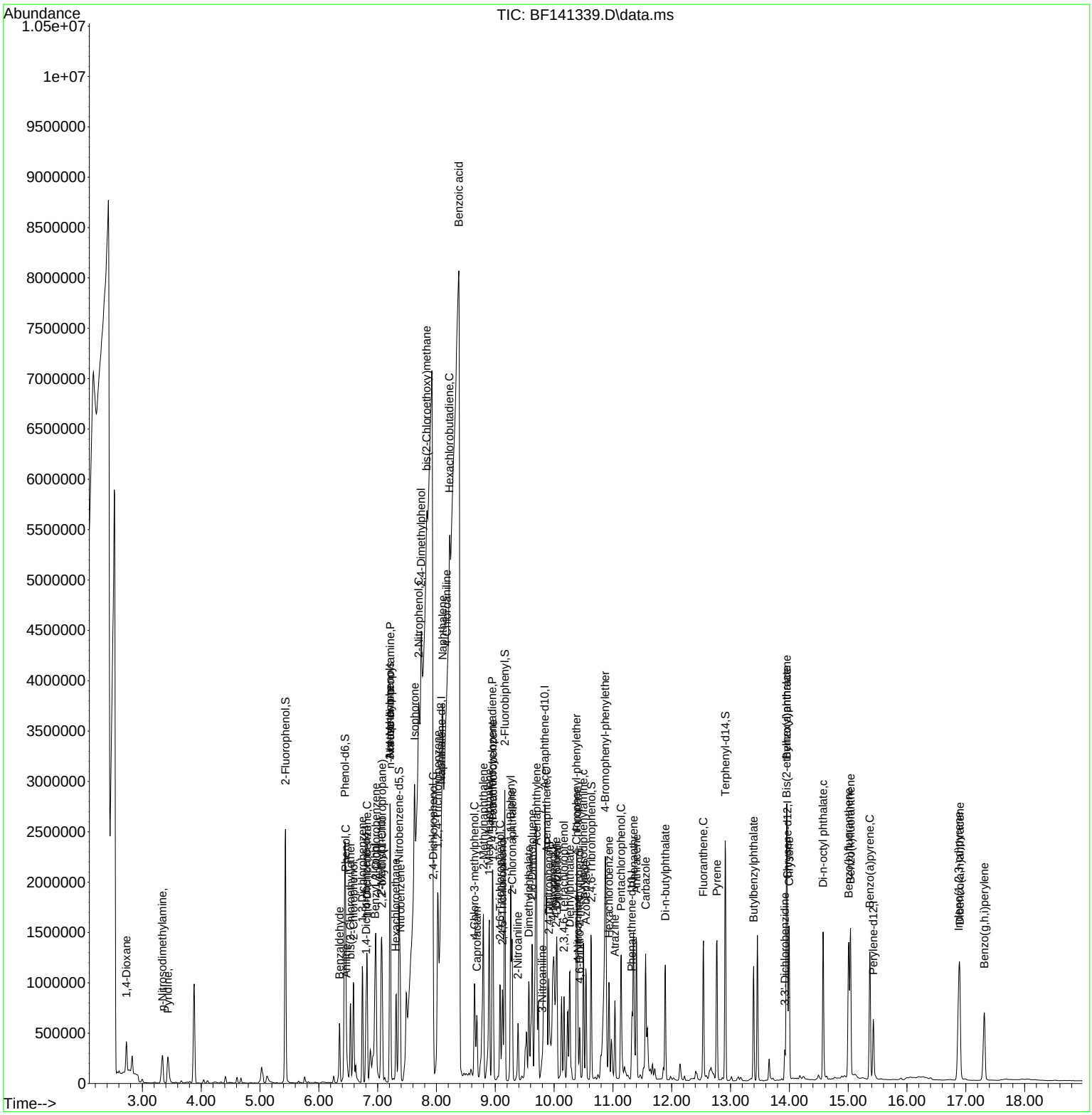
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141339.D
Acq On : 31 Jan 2025 18:44
Operator : RC/JU
Sample : Q1218-02MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

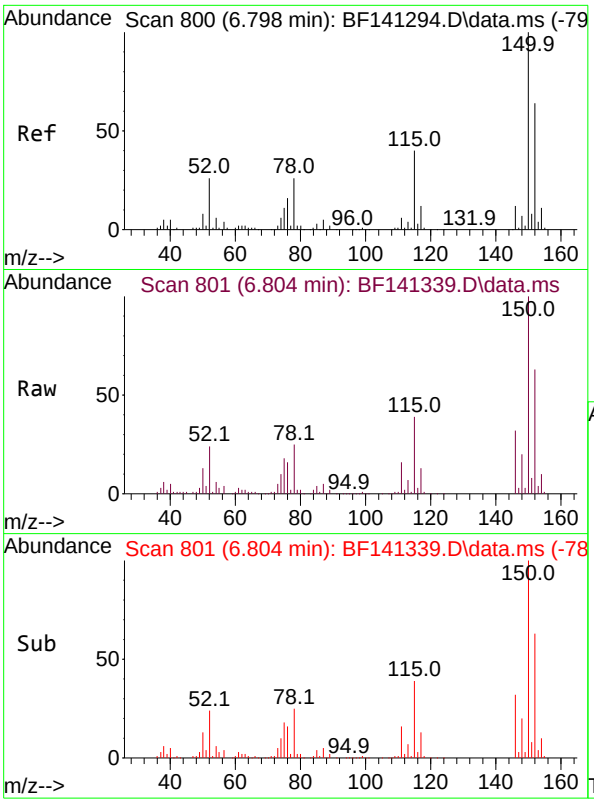
Quant Time: Jan 31 22:30:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

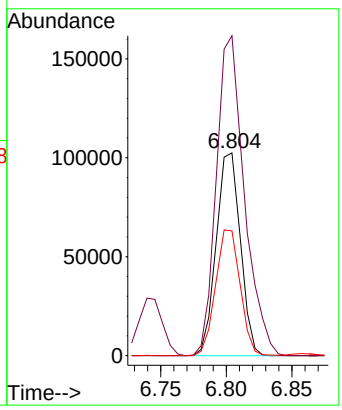




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:152 Resp: 13155

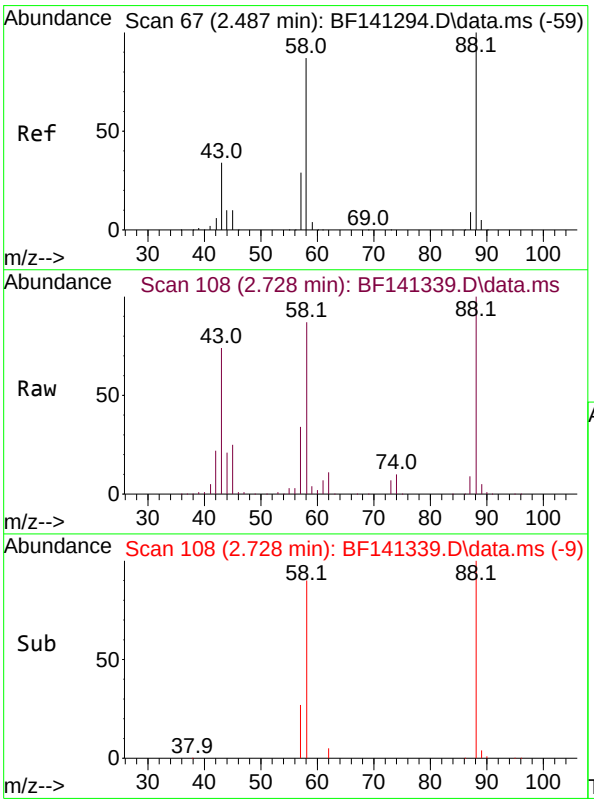
Ion	Ratio	Lower	Upper
152	100		
150	157.8	125.9	188.9
115	61.5	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

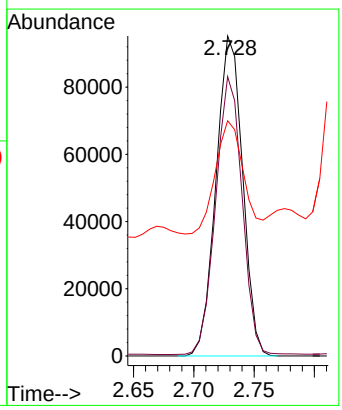
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

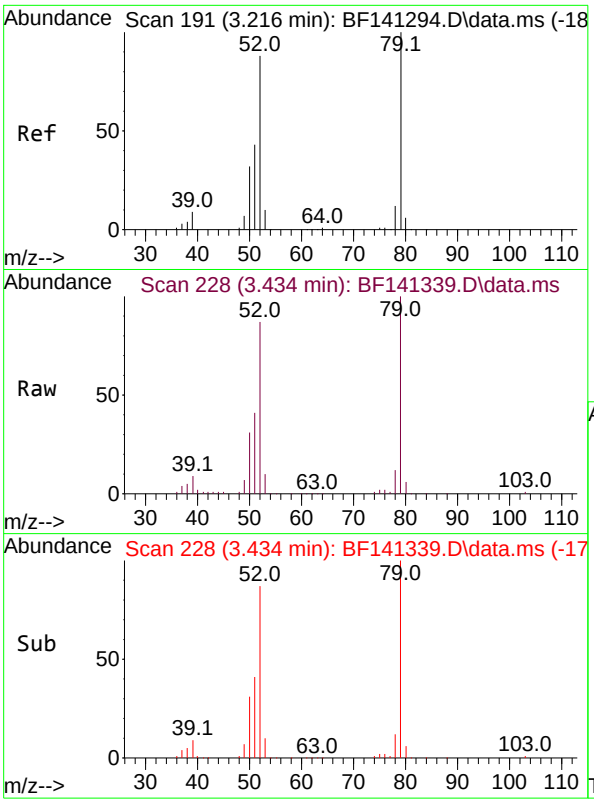


#2
1,4-Dioxane
Concen: 38.647 ng m
RT: 2.728 min Scan# 108
Delta R.T. 0.235 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 88 Resp: 145647

Ion	Ratio	Lower	Upper
88	100		
58	132.6	70.2	105.4#
43	5191.4	27.6	41.4#

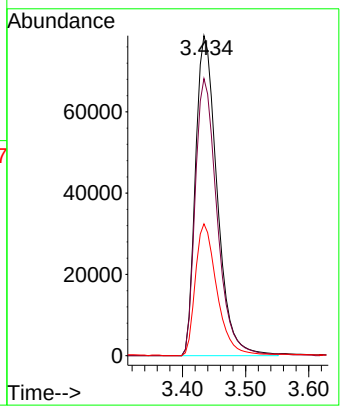




#3
Pyridine
Concen: 20.658 ng
RT: 3.434 min Scan# 2
Delta R.T. 0.206 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 79 Resp: 18757

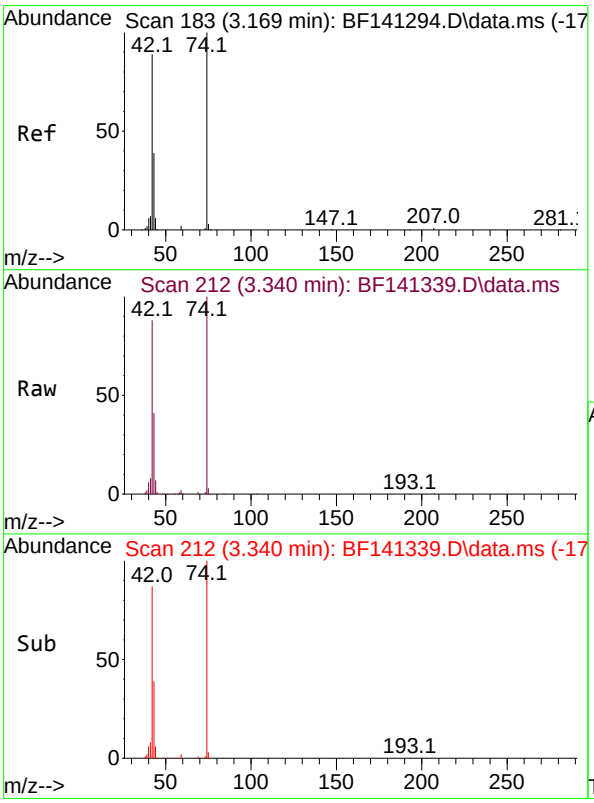
Ion	Ratio	Lower	Upper
79	100		
52	86.6	70.3	105.5
51	41.2	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

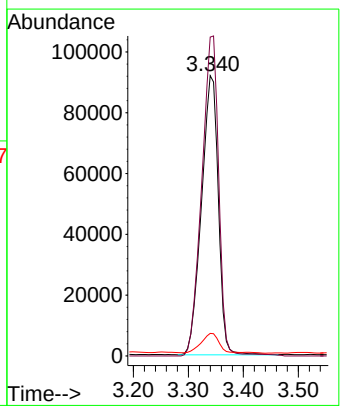
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

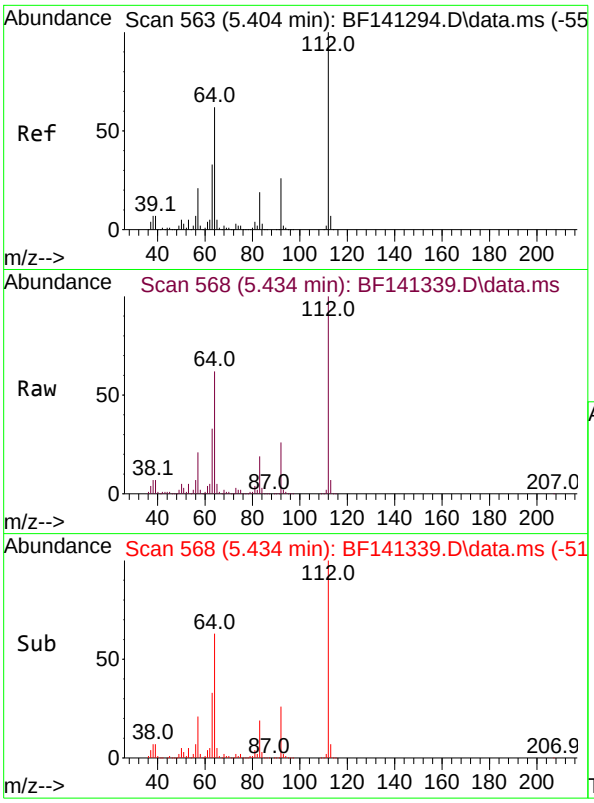


#4
n-Nitrosodimethylamine
Concen: 37.651 ng
RT: 3.340 min Scan# 212
Delta R.T. 0.141 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 42 Resp: 195301

Ion	Ratio	Lower	Upper
42	100		
74	113.7	90.3	135.5
44	8.1	5.7	8.5

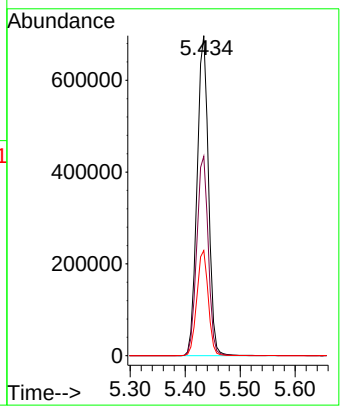




#5
2-Fluorophenol
Concen: 117.483 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.023 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:112 Resp: 100673

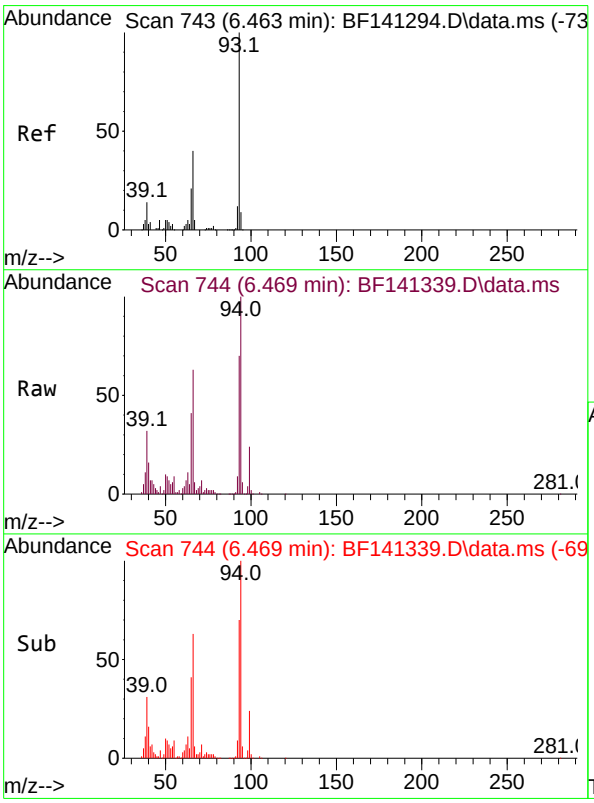
Ion	Ratio	Lower	Upper
112	100		
64	62.3	49.8	74.8
63	32.8	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

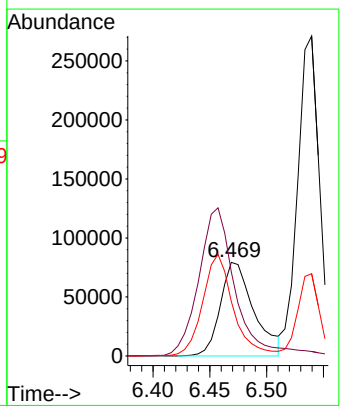
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

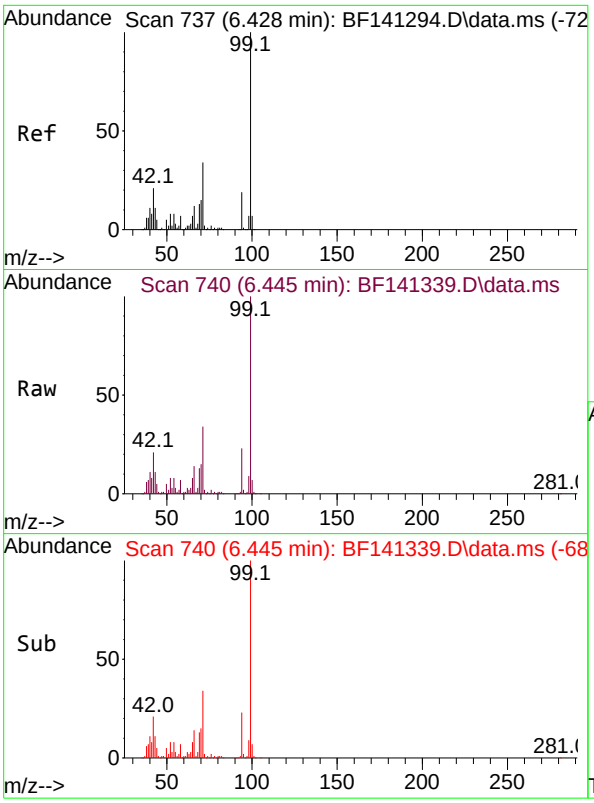


#6
Aniline
Concen: 17.674 ng
RT: 6.469 min Scan# 744
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 93 Resp: 163092

Ion	Ratio	Lower	Upper
93	100		
66	89.6	32.5	48.7#
65	58.2	17.0	25.6#

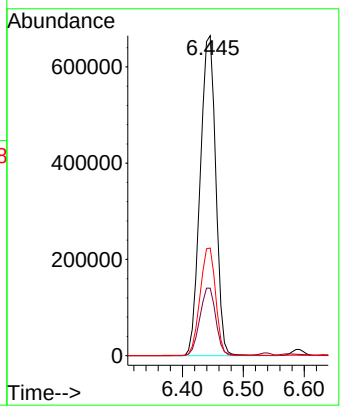




#7
Phenol-d6
Concen: 108.241 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 99 Resp: 117994

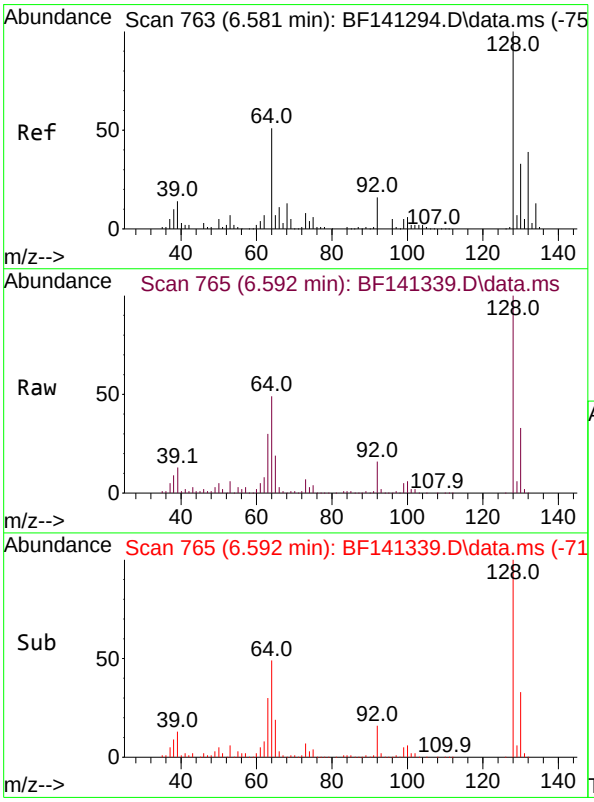
Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.1	25.7
71	33.6	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

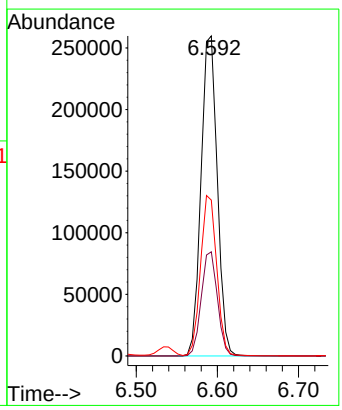
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

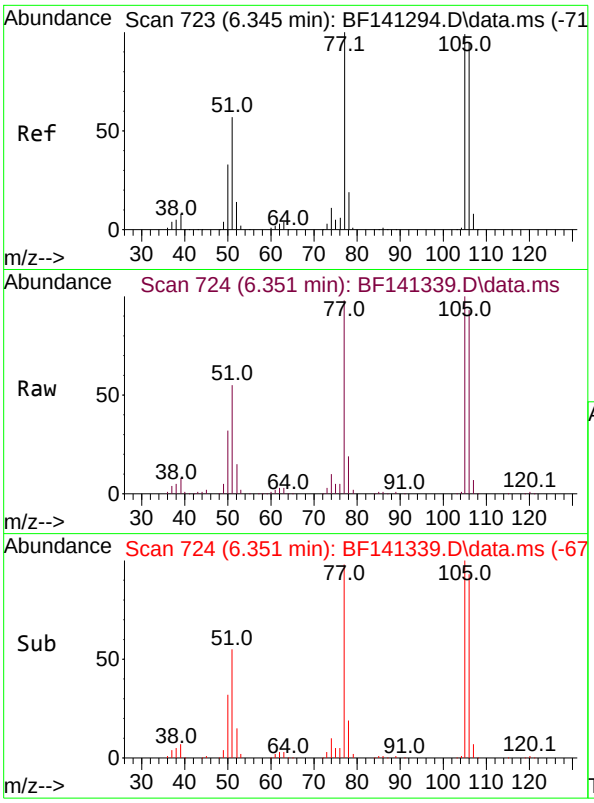


#8
2-Chlorophenol
Concen: 39.280 ng
RT: 6.592 min Scan# 765
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:128 Resp: 360773

Ion	Ratio	Lower	Upper
128	100		
130	32.5	12.5	52.5
64	48.7	32.9	72.9

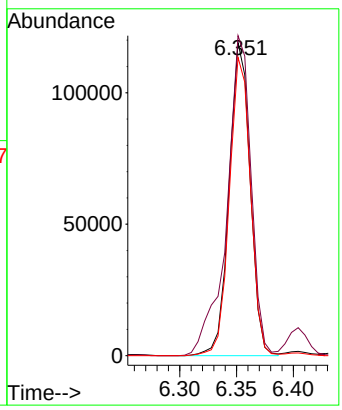




#9
Benzaldehyde
Concen: 24.261 ng
RT: 6.351 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 77 Resp: 15318

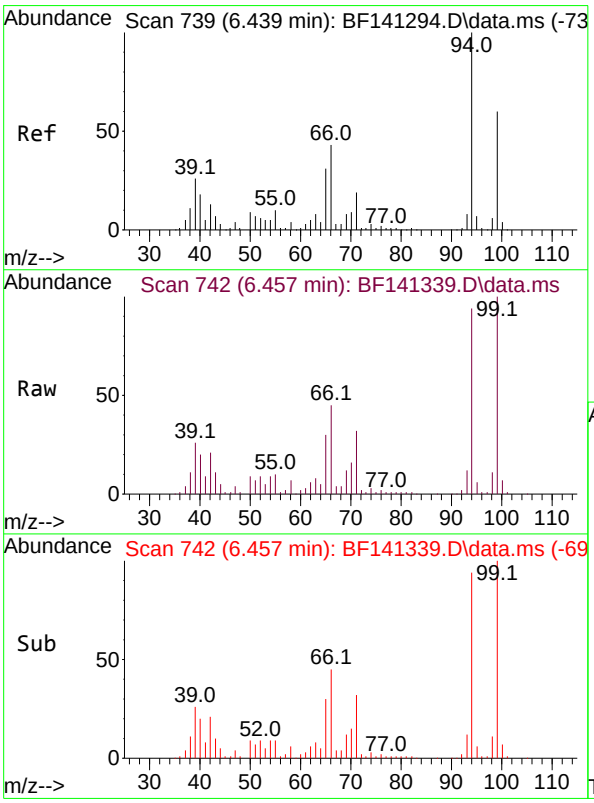
Ion	Ratio	Lower	Upper
77	100		
105	102.2	79.4	119.4
106	95.3	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

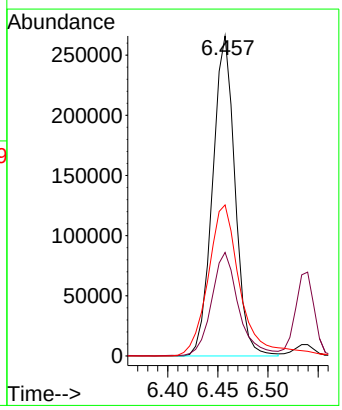
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

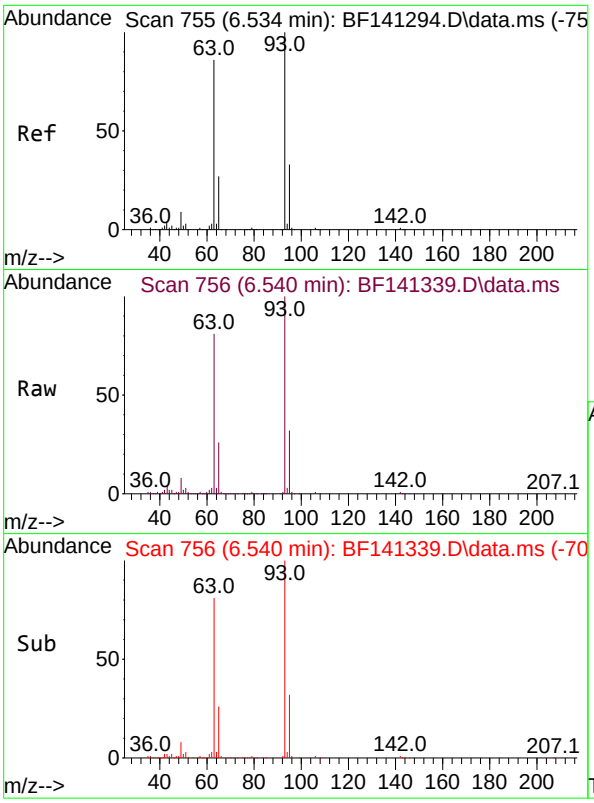


#10
Phenol
Concen: 35.764 ng
RT: 6.457 min Scan# 742
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 94 Resp: 413280

Ion	Ratio	Lower	Upper
94	100		
65	32.4	10.8	50.8
66	47.2	23.3	63.3

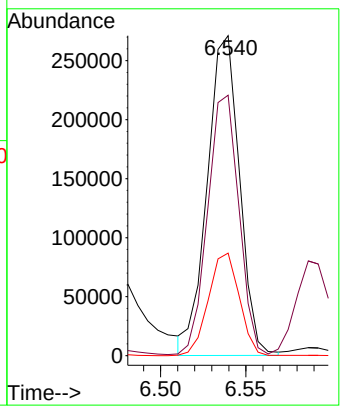




#11
bis(2-Chloroethyl)ether
Concen: 40.375 ng
RT: 6.540 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 93 Resp: 35773

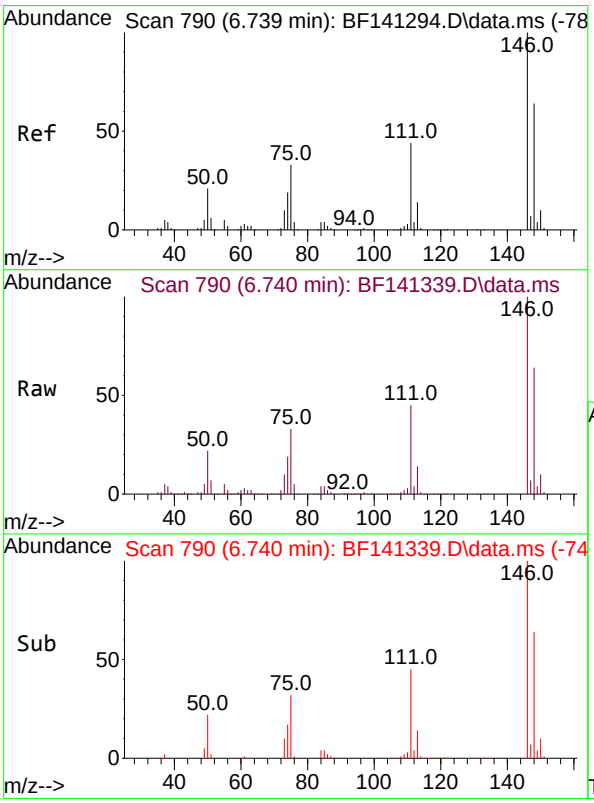
Ion	Ratio	Lower	Upper
93	100		
63	81.4	65.0	105.0
95	32.1	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

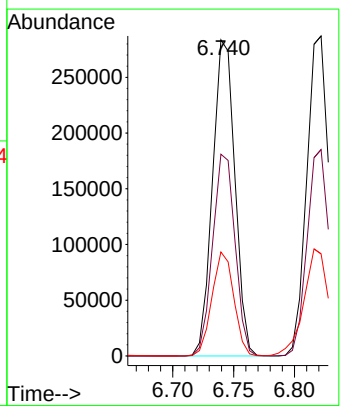
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

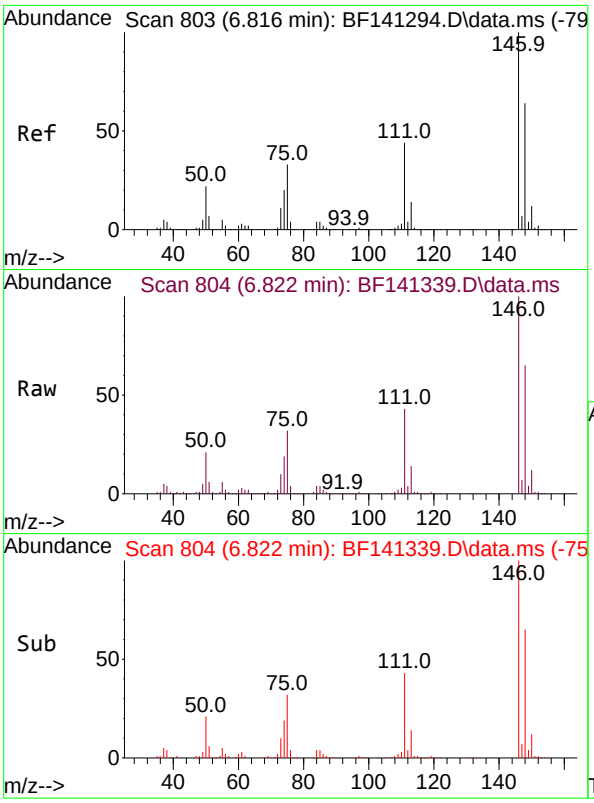


#12
1,3-Dichlorobenzene
Concen: 35.790 ng
RT: 6.740 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:146 Resp: 362442

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.2	76.8
75	32.9	26.2	39.4





#13
1,4-Dichlorobenzene
Concen: 35.719 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

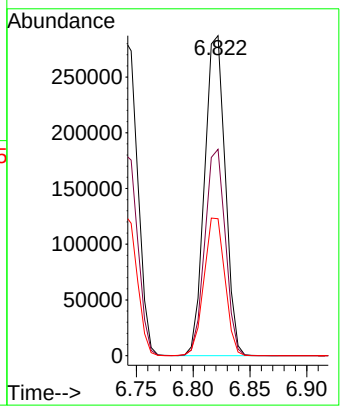
Tgt Ion:146 Resp: 36338

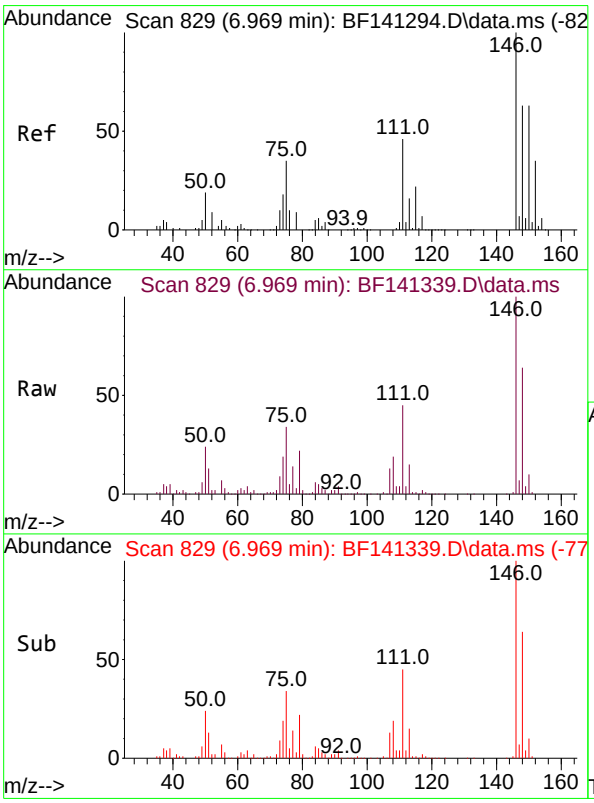
Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.2	76.8
111	42.8	35.0	52.4

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

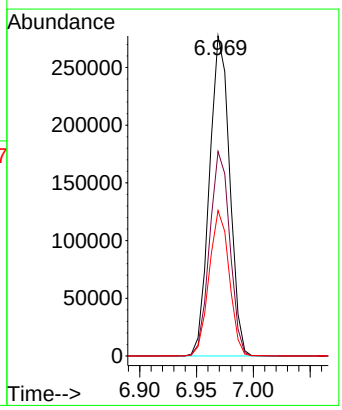


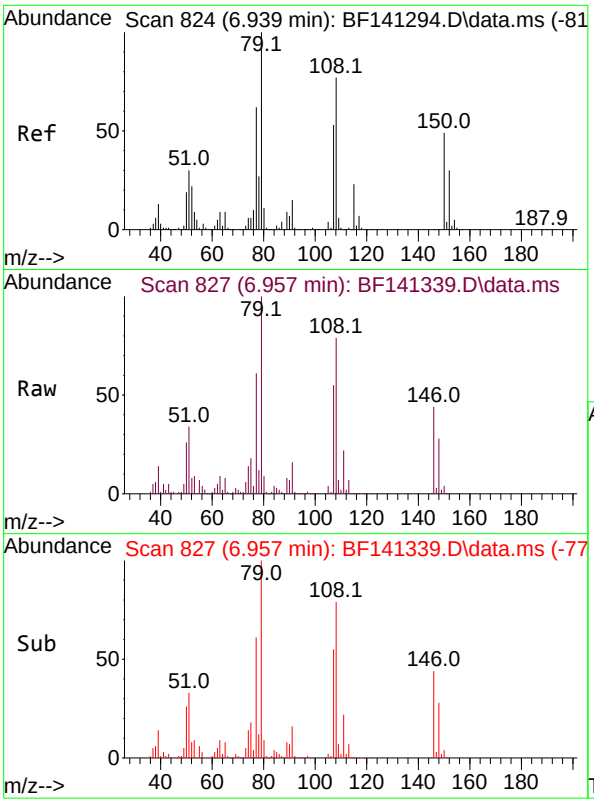


#14
1,2-Dichlorobenzene
Concen: 36.070 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:146 Resp: 343621

Ion	Ratio	Lower	Upper
146	100		
148	63.9	50.5	75.7
111	45.5	36.6	55.0





#15
Benzyl Alcohol
Concen: 39.023 ng
RT: 6.957 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

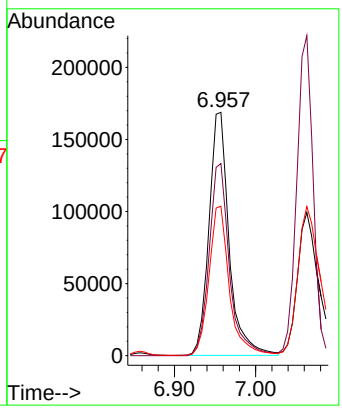
Tgt Ion: 79 Resp: 29071

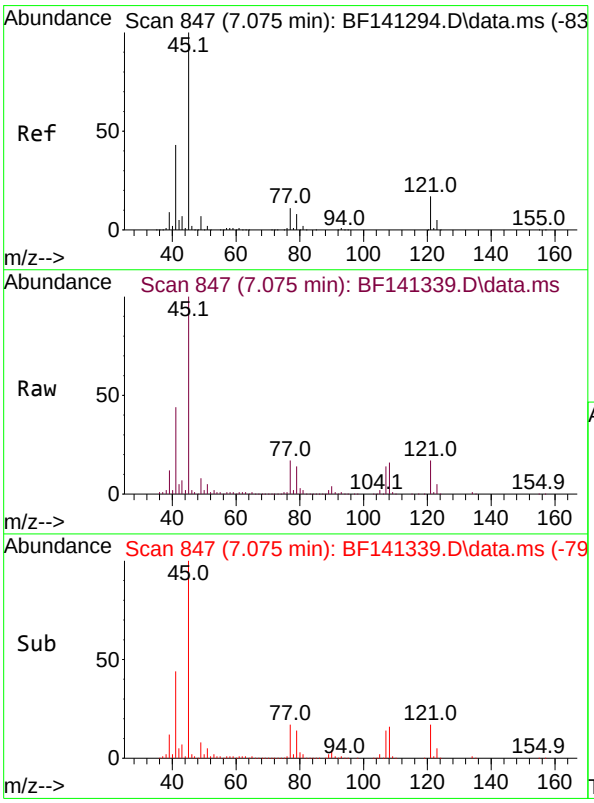
Ion	Ratio	Lower	Upper
79	100		
108	79.0	61.4	92.0
77	61.4	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

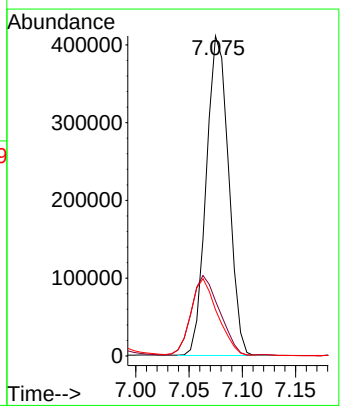


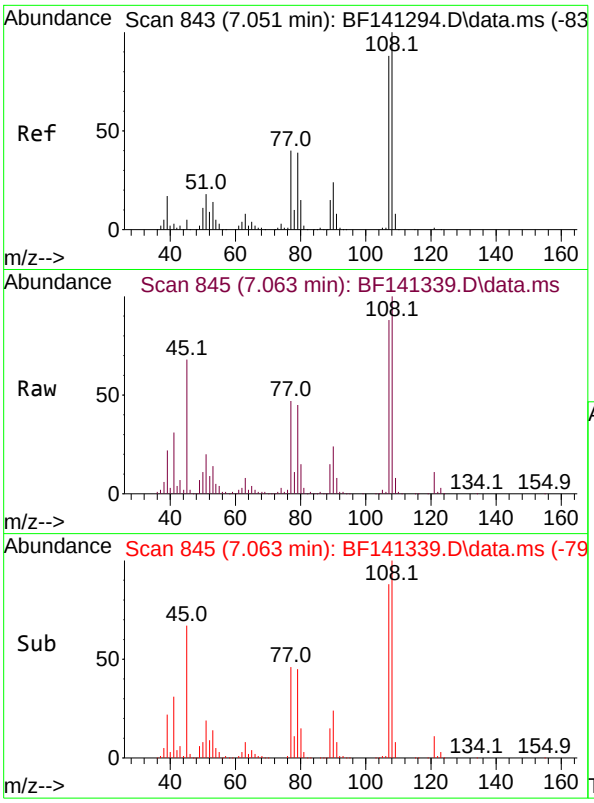


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.852 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 45 Resp: 598595

Ion	Ratio	Lower	Upper
45	100		
77	17.2	0.0	31.8
79	14.5	0.0	29.1

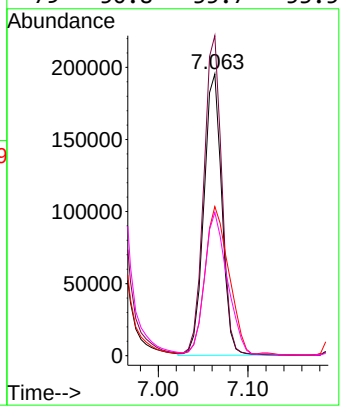




#17
2-Methylphenol
Concen: 36.294 ng
RT: 7.063 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:107 Resp: 27092

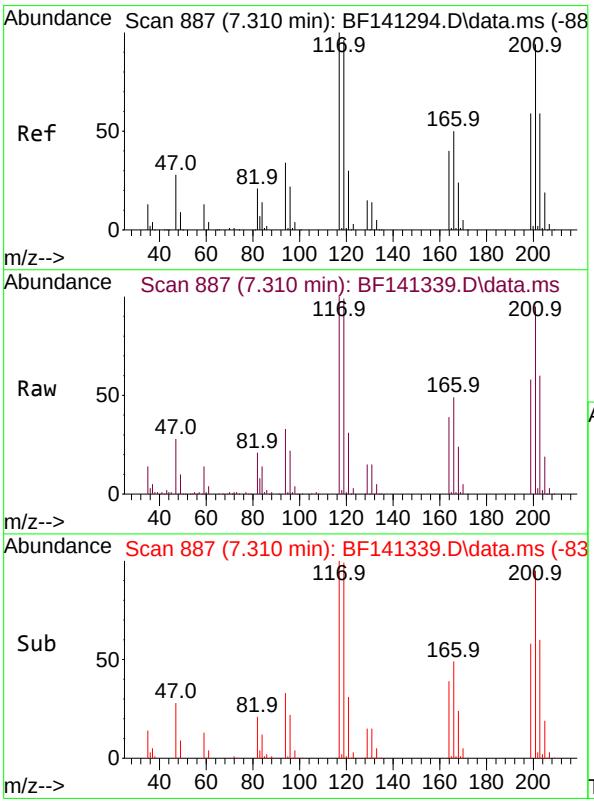
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.8	136.2
77	52.9	36.2	54.4
79	50.8	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

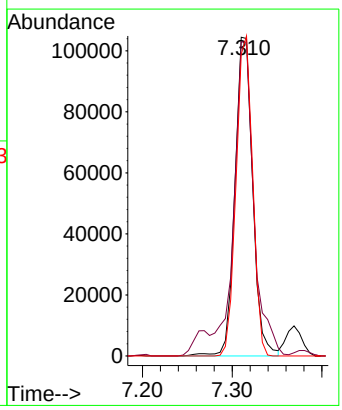
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

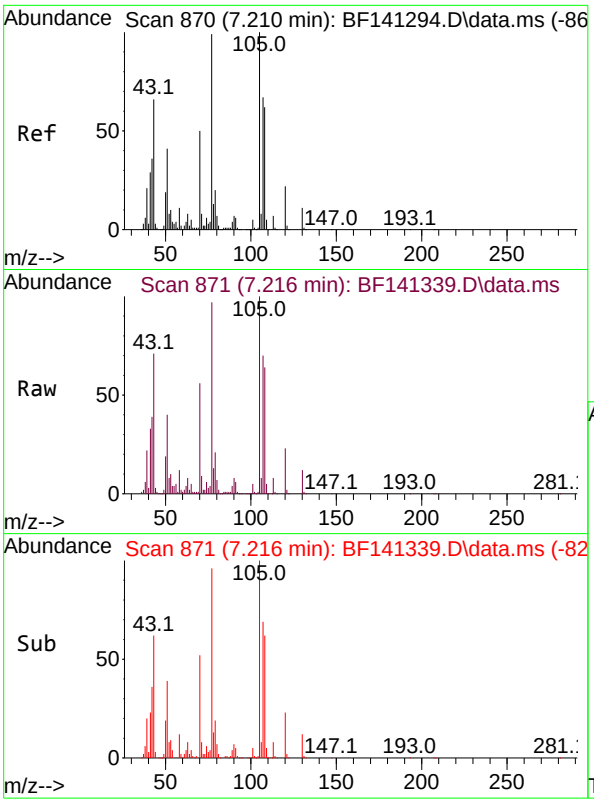


#18
Hexachloroethane
Concen: 38.303 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:117 Resp: 143756

Ion	Ratio	Lower	Upper
117	100		
119	98.5	76.6	114.8
201	94.7	74.8	112.2

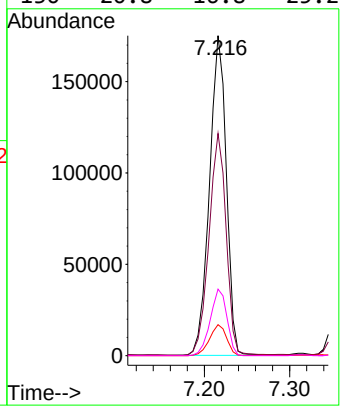




#19
n-Nitroso-di-n-propylamine
Concen: 37.144 ng
RT: 7.216 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 70 Resp: 24059

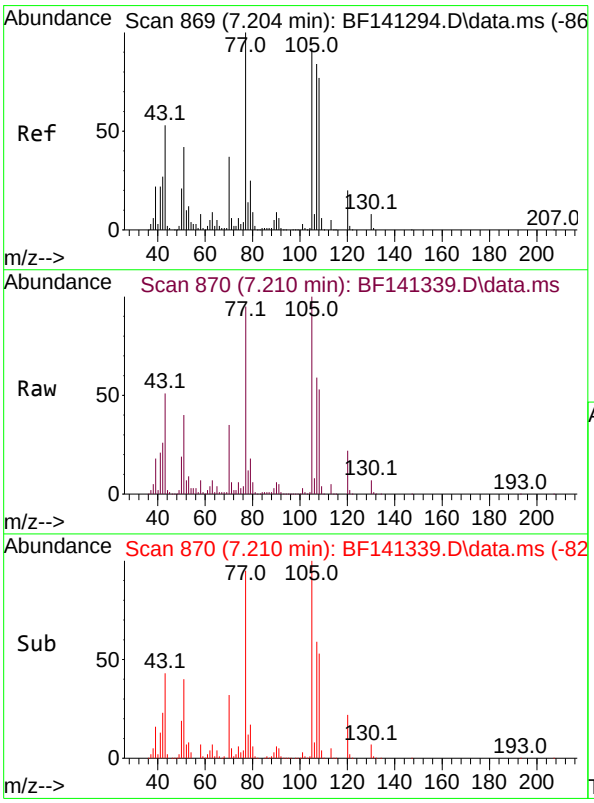
Ion	Ratio	Lower	Upper
70	100		
42	69.5	56.8	85.2
101	9.7	7.7	11.5
130	20.8	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

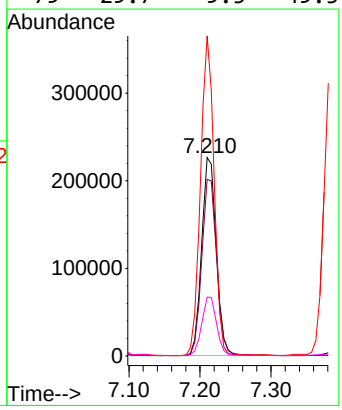
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

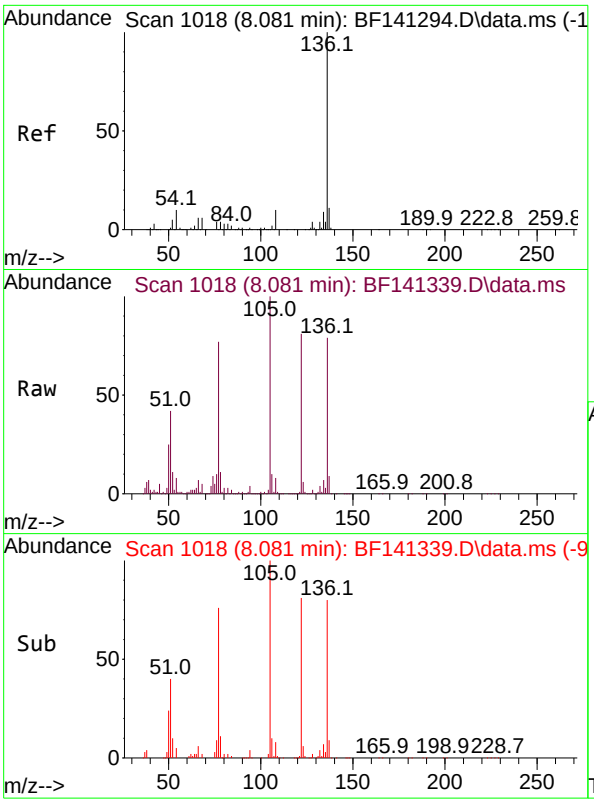


#20
3+4-Methylphenols
Concen: 35.496 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:107 Resp: 325334

Ion	Ratio	Lower	Upper
107	100		
108	89.1	70.9	110.9
77	161.3	98.5	138.5#
79	29.7	9.5	49.5

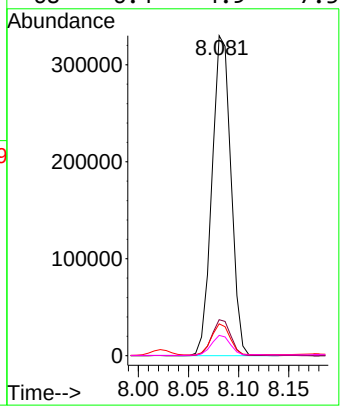




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:136 Resp: 43447

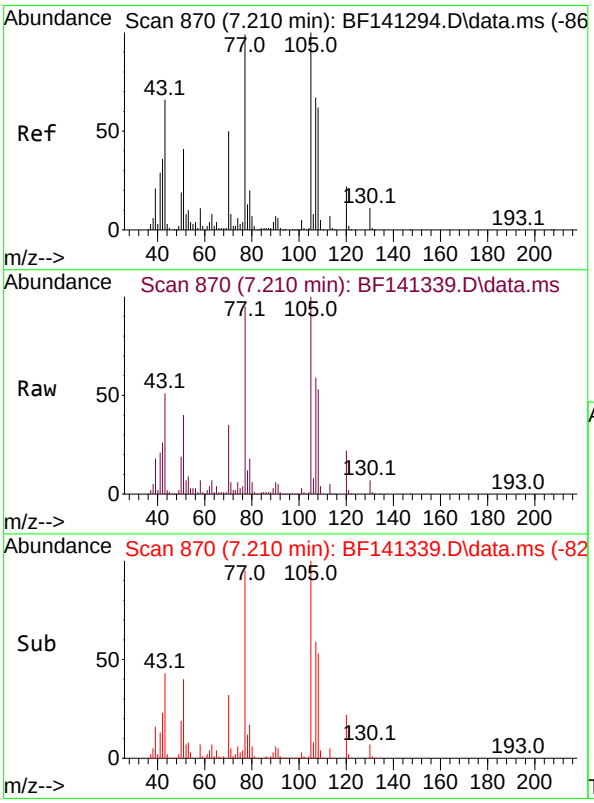
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.6	13.0
54	10.0	7.8	11.8
68	6.4	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

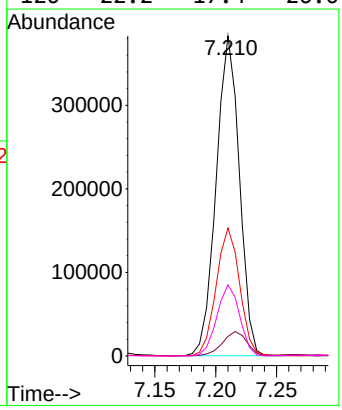
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

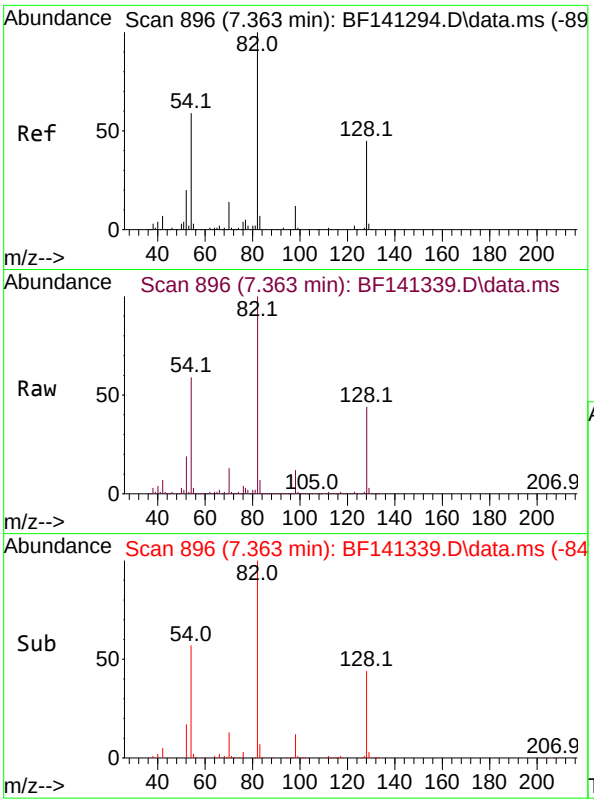


#22
Acetophenone
Concen: 49.252 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:105 Resp: 508642

Ion	Ratio	Lower	Upper
105	100		
71	6.1	6.8	10.2#
51	40.0	32.6	49.0
120	22.2	17.4	26.0





#23
Nitrobenzene-d5
Concen: 92.850 ng
RT: 7.363 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

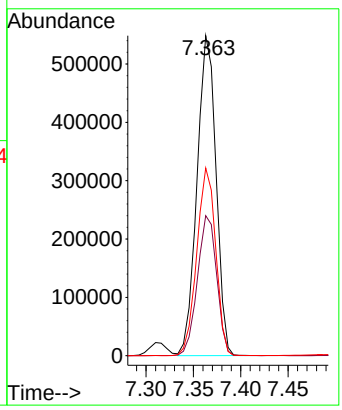
Tgt Ion: 82 Resp: 76523

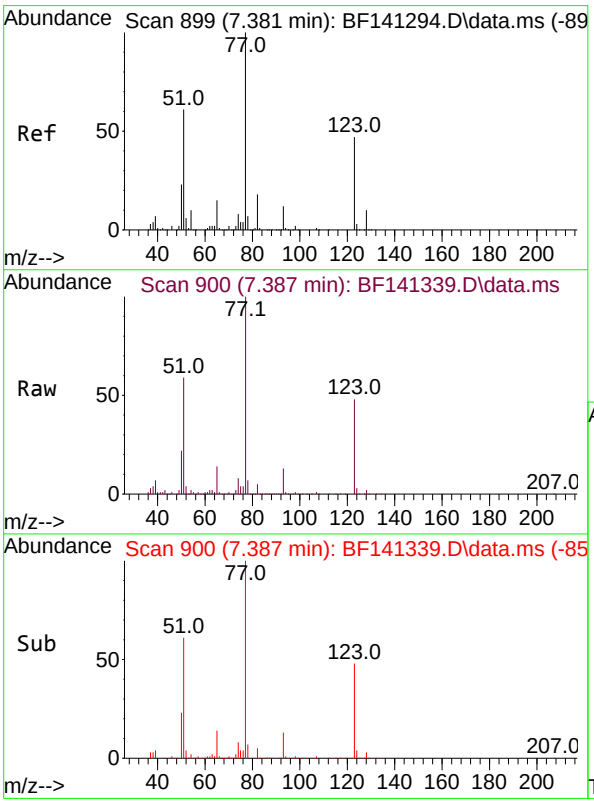
Ion	Ratio	Lower	Upper
82	100		
128	43.8	35.7	53.5
54	58.6	47.1	70.7

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

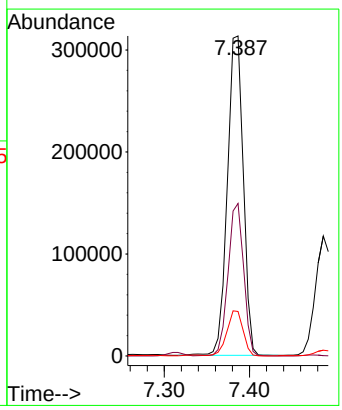


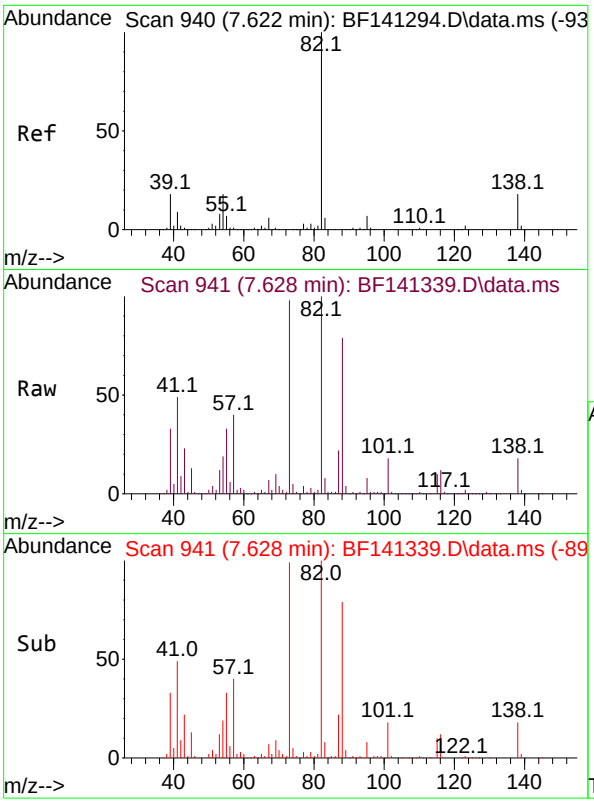


#24
Nitrobenzene
Concen: 47.643 ng
RT: 7.387 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 77 Resp: 406912

Ion	Ratio	Lower	Upper
77	100		
123	47.7	37.3	55.9
65	13.9	11.8	17.6





#25
Isophorone
Concen: 39.690 ng
RT: 7.628 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

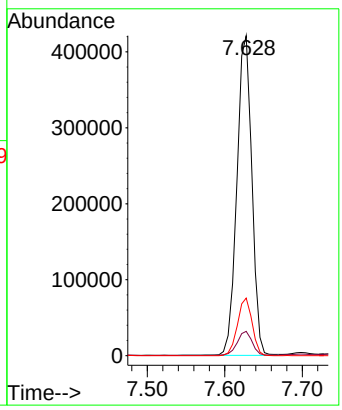
Tgt Ion: 82 Resp: 56543

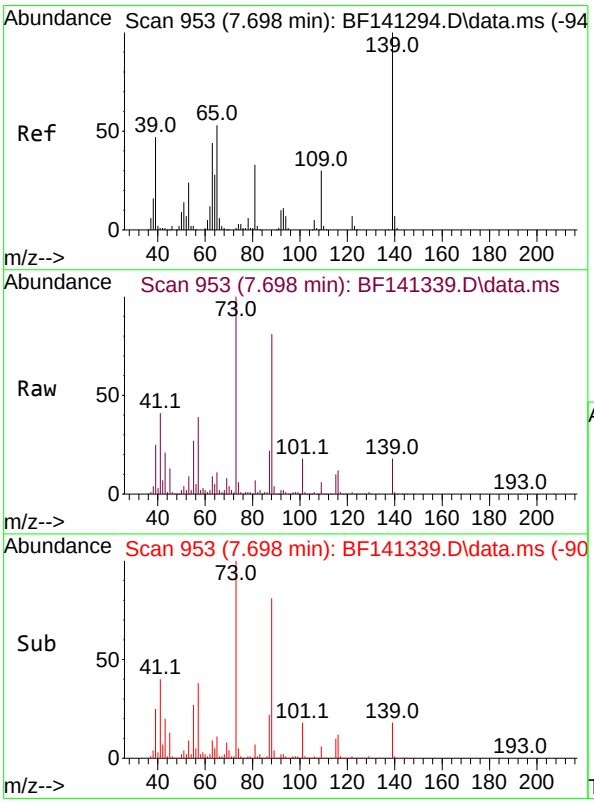
Ion	Ratio	Lower	Upper
82	100		
95	7.6	5.8	8.6
138	18.0	14.7	22.1

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

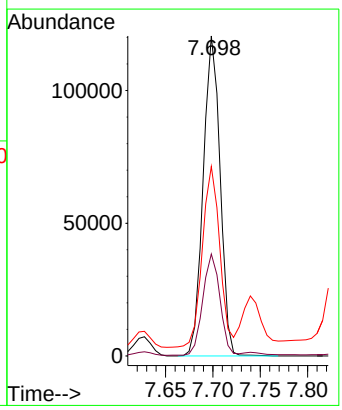


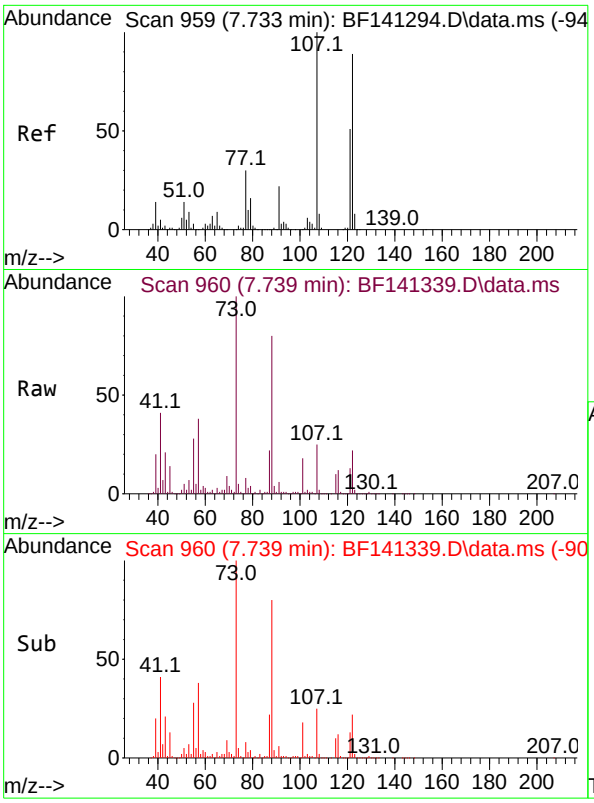


#26
2-Nitrophenol
Concen: 37.190 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:139 Resp: 149802

Ion	Ratio	Lower	Upper
139	100		
109	31.8	23.8	35.6
65	59.2	42.2	63.4

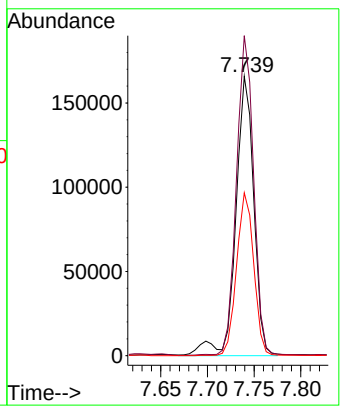




#27
2,4-Dimethylphenol
Concen: 43.614 ng m
RT: 7.739 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:122 Resp: 22360

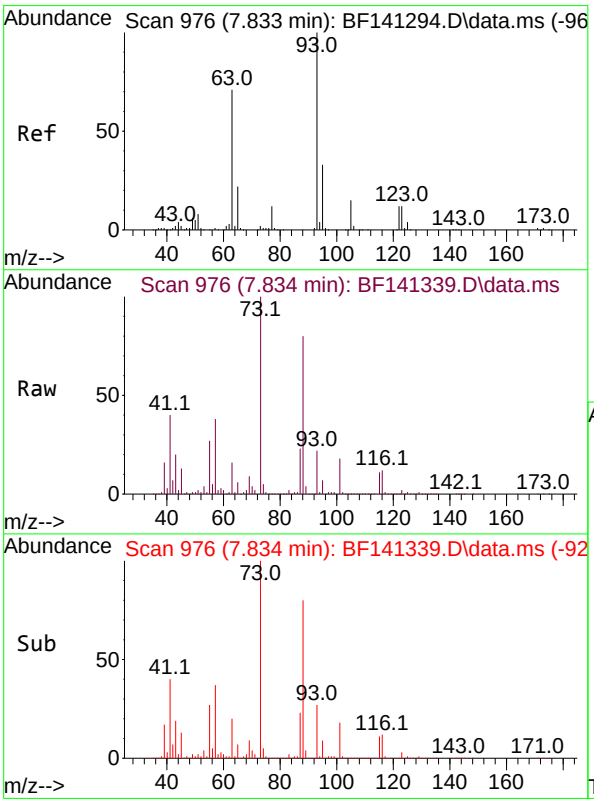
Ion	Ratio	Lower	Upper
122	100		
107	114.6	89.9	134.9
121	58.3	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

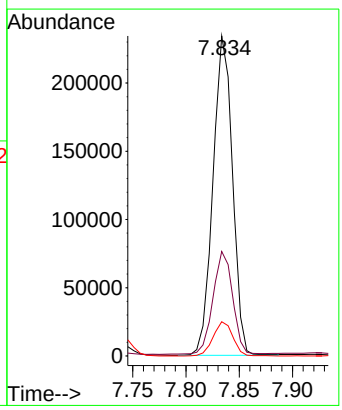
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

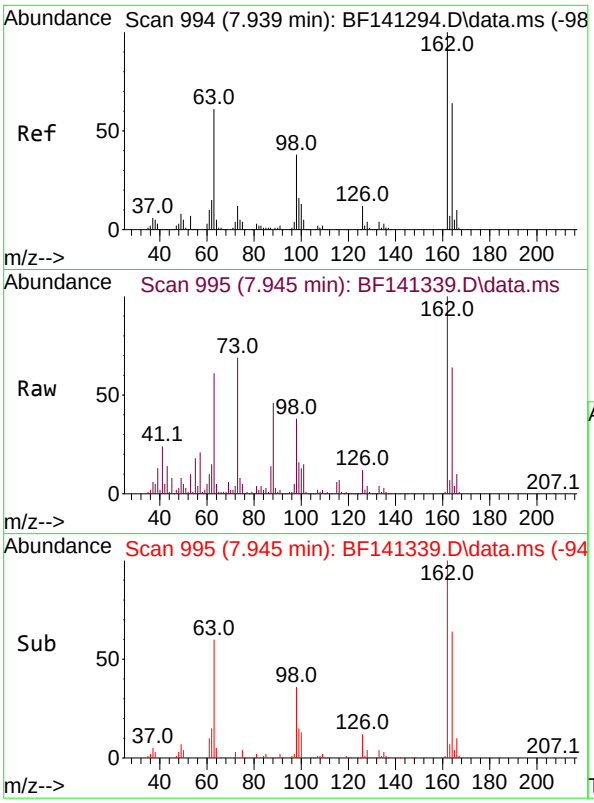


#28
bis(2-Chloroethoxy)methane
Concen: 32.783 ng
RT: 7.834 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 93 Resp: 297915

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.2
123	10.7	10.2	15.4

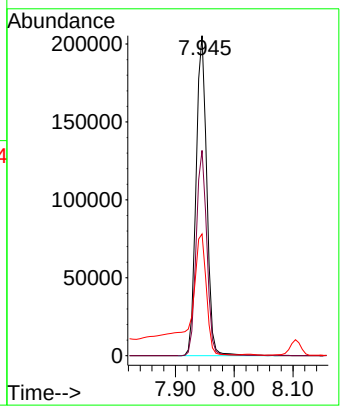




#29
2,4-Dichlorophenol
Concen: 41.317 ng
RT: 7.945 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:162 Resp: 25932

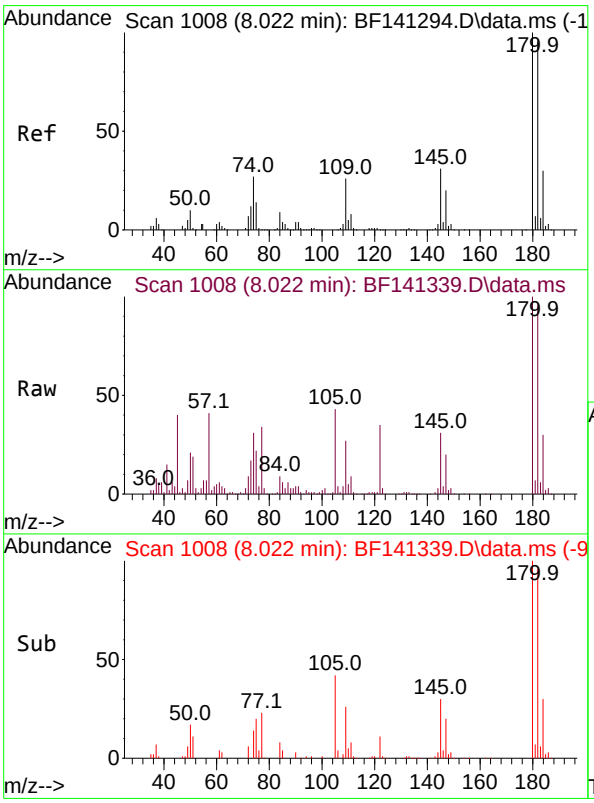
Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.2	84.2
98	38.0	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

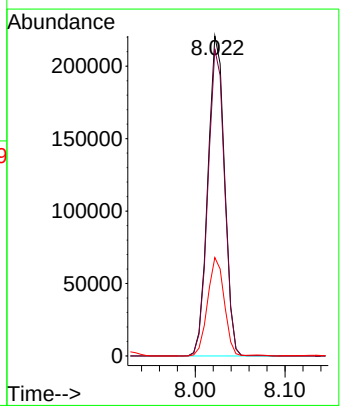
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

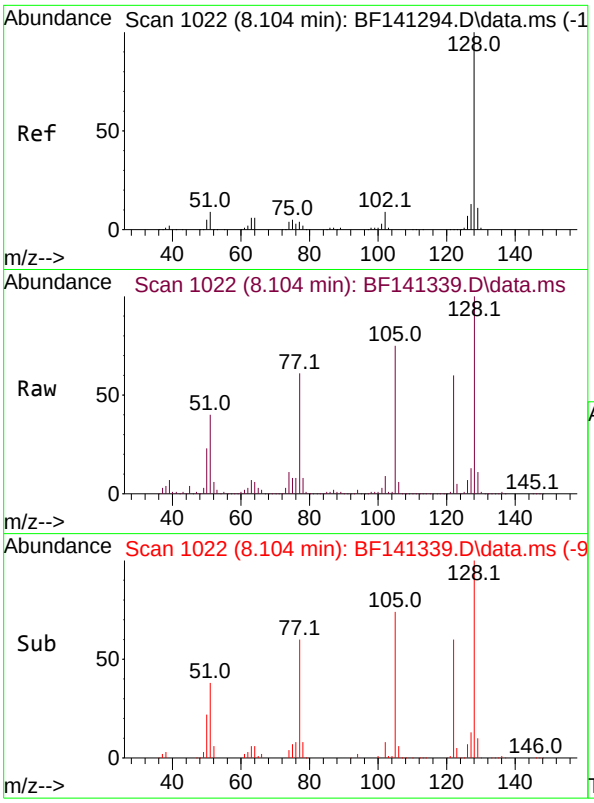


#30
1,2,4-Trichlorobenzene
Concen: 39.819 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:180 Resp: 285426

Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.4	114.6
145	30.7	24.9	37.3

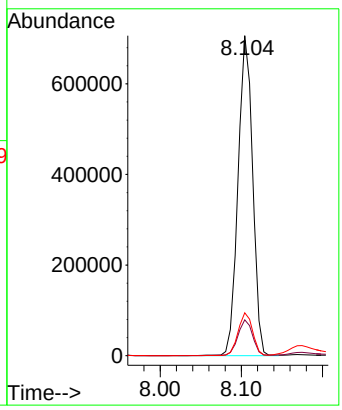




#31
Naphthalene
Concen: 38.417 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:128 Resp: 88174

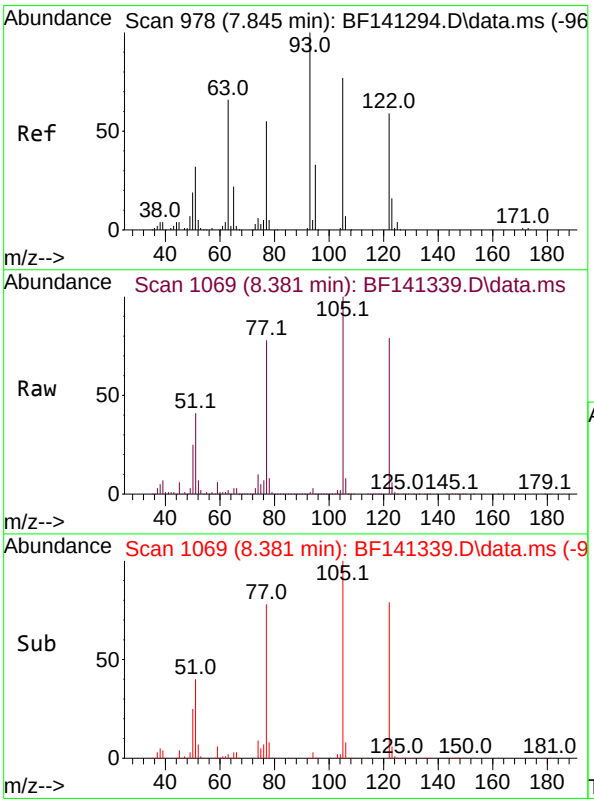
Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.9	13.3
127	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

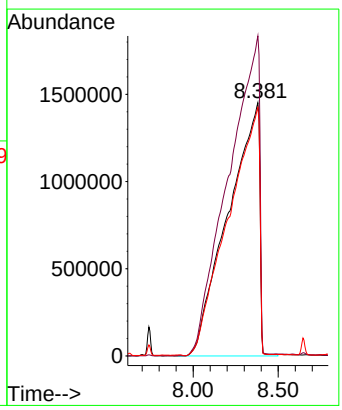
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

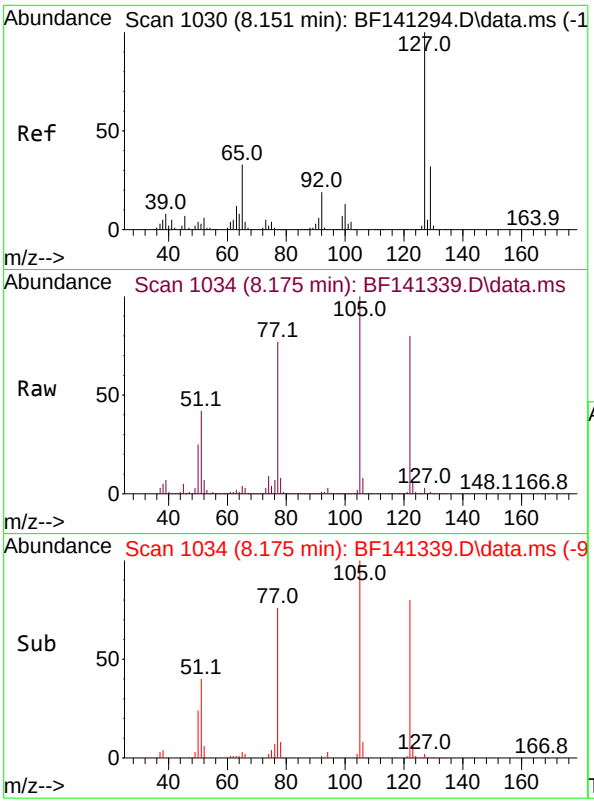


#32
Benzoic acid
Concen: 3944.485 ng m
RT: 8.381 min Scan# 1069
Delta R.T. 0.500 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:122 Resp:18590870

Ion	Ratio	Lower	Upper
122	100		
105	126.4	103.4	143.4
77	98.1	70.9	110.9

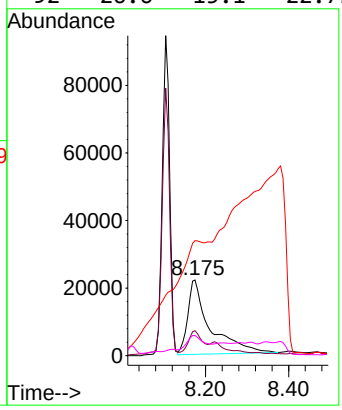




#33
4-Chloroaniline
Concen: 10.555 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.018 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:127 Resp: 8215

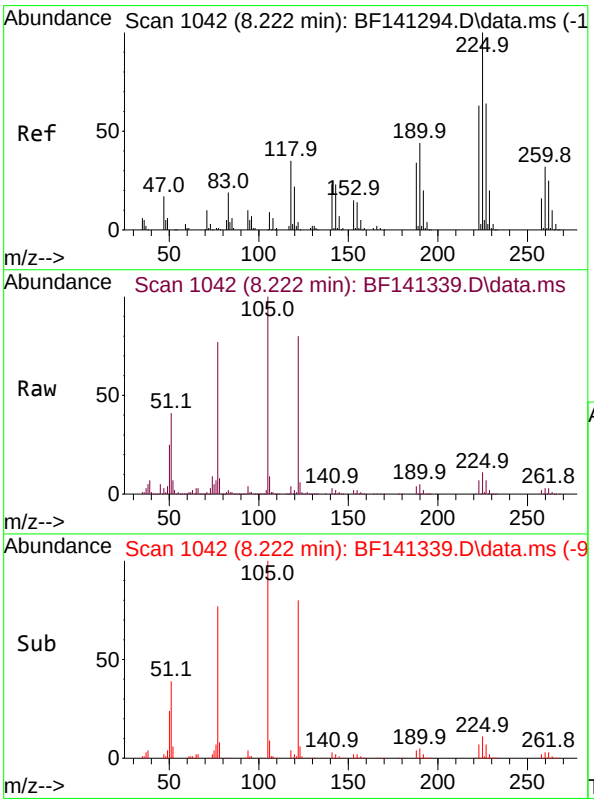
Ion	Ratio	Lower	Upper
127	100		
129	33.1	25.7	38.5
65	151.9	26.4	39.6#
92	26.6	15.1	22.7#



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

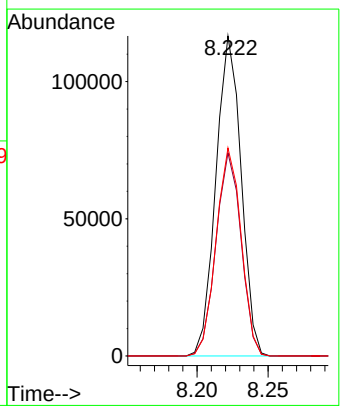
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

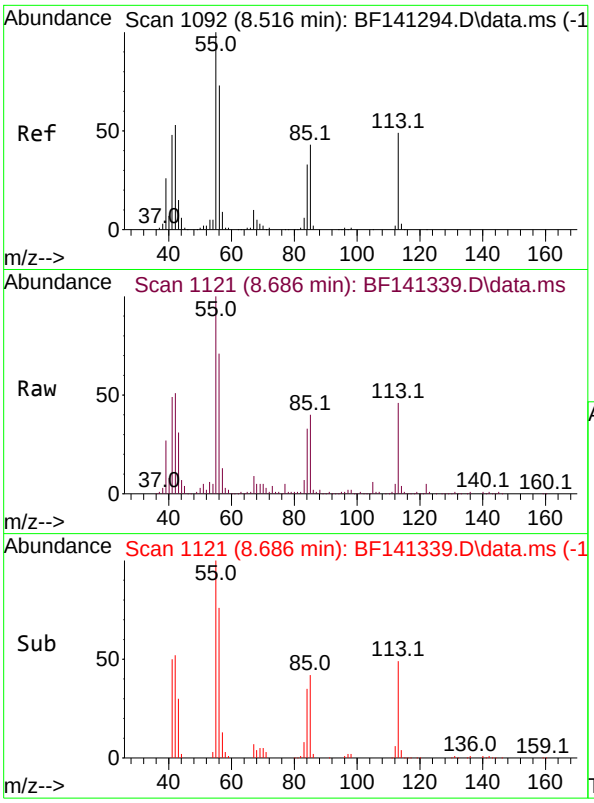


#34
Hexachlorobutadiene
Concen: 34.219 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:225 Resp: 143844

Ion	Ratio	Lower	Upper
225	100		
223	63.4	50.4	75.6
227	65.0	51.3	76.9





#35
Caprolactam
Concen: 34.511 ng
RT: 8.686 min Scan# 11
Delta R.T. 0.141 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

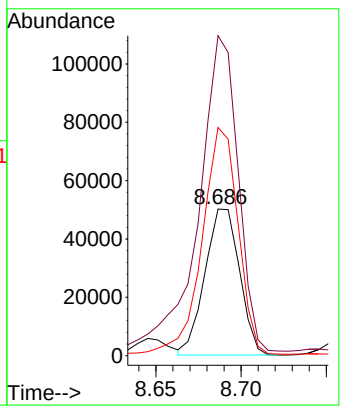
Tgt Ion:113 Resp: 7074

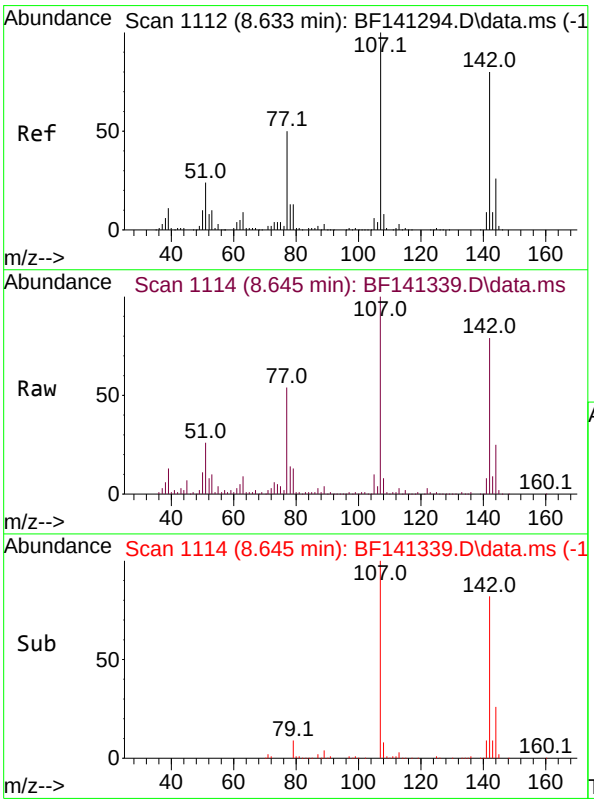
Ion	Ratio	Lower	Upper
113	100		
55	218.3	182.9	222.9
56	155.6	127.9	167.9

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

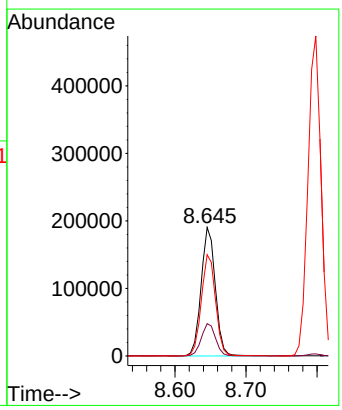


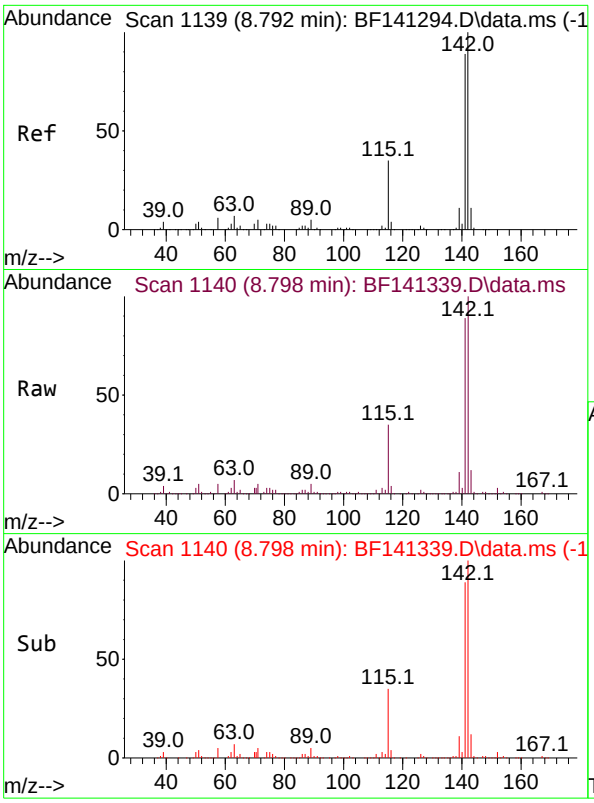


#36
4-Chloro-3-methylphenol
Concen: 39.508 ng
RT: 8.645 min Scan# 1114
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:107 Resp: 265987

Ion	Ratio	Lower	Upper
107	100		
144	25.2	20.7	31.1
142	78.8	63.8	95.8





#37
2-Methylnaphthalene
Concen: 41.162 ng
RT: 8.798 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

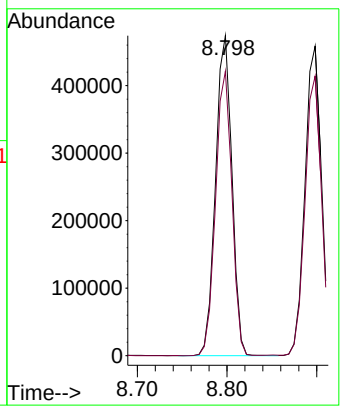
Tgt Ion:142 Resp: 60046

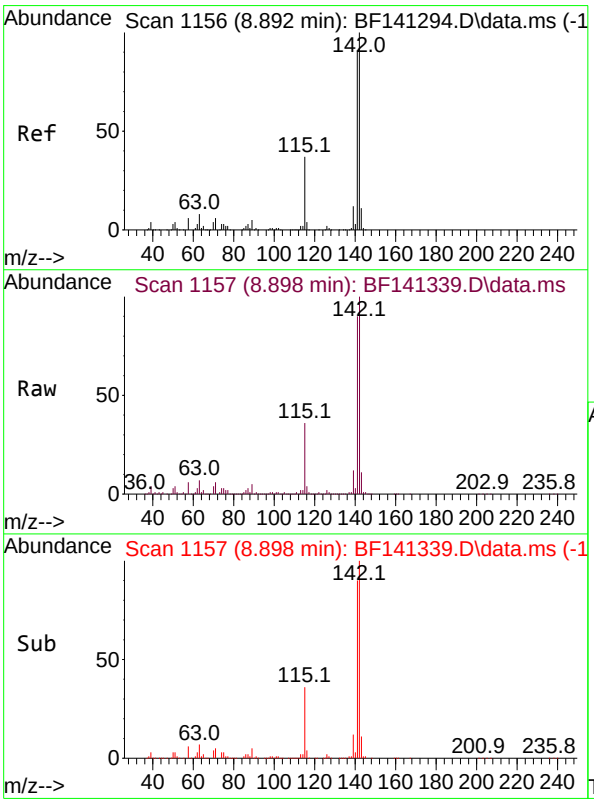
Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

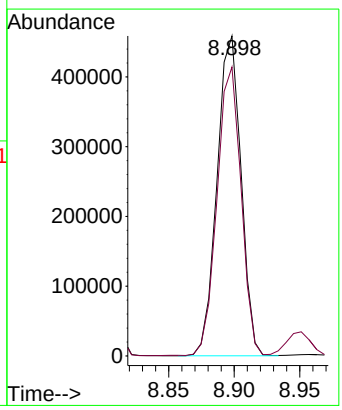


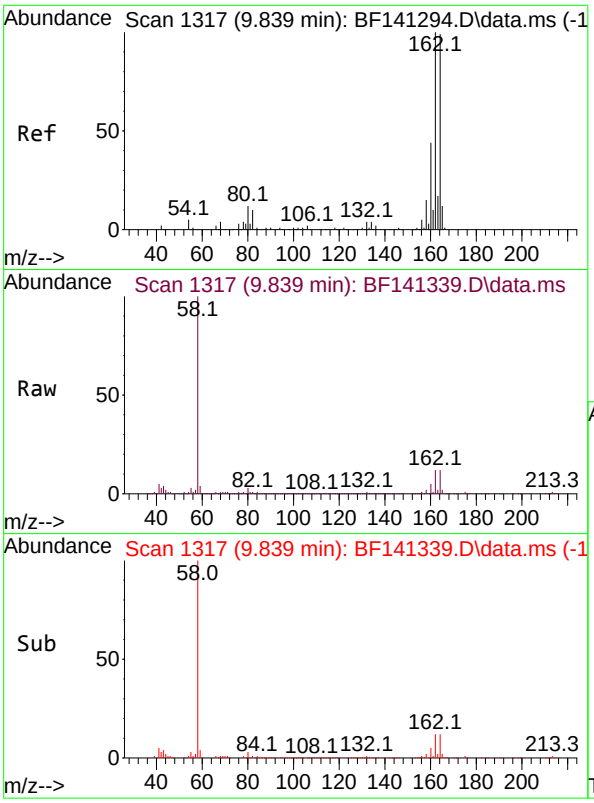


#38
1-Methylnaphthalene
Concen: 40.664 ng
RT: 8.898 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:142 Resp: 582706

Ion	Ratio	Lower	Upper
142	100		
141	90.3	73.2	109.8

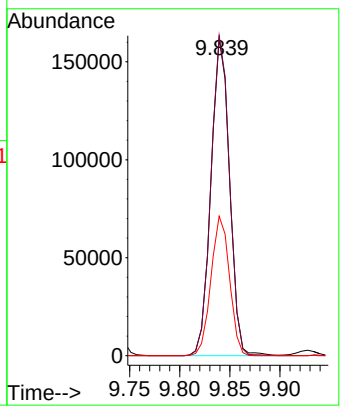




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.839 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:164 Resp: 20886

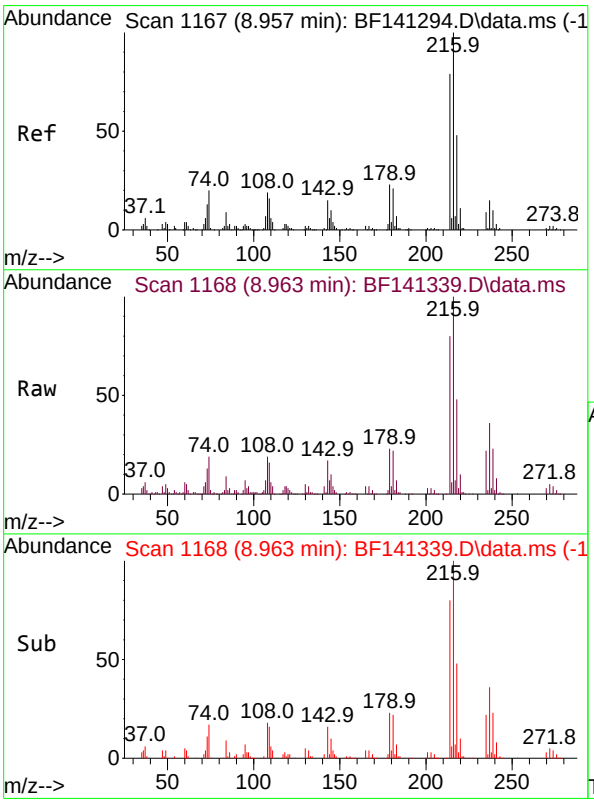
Ion	Ratio	Lower	Upper
164	100		
162	100.9	80.6	121.0
160	44.0	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

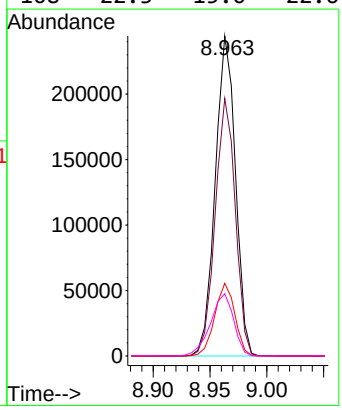
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

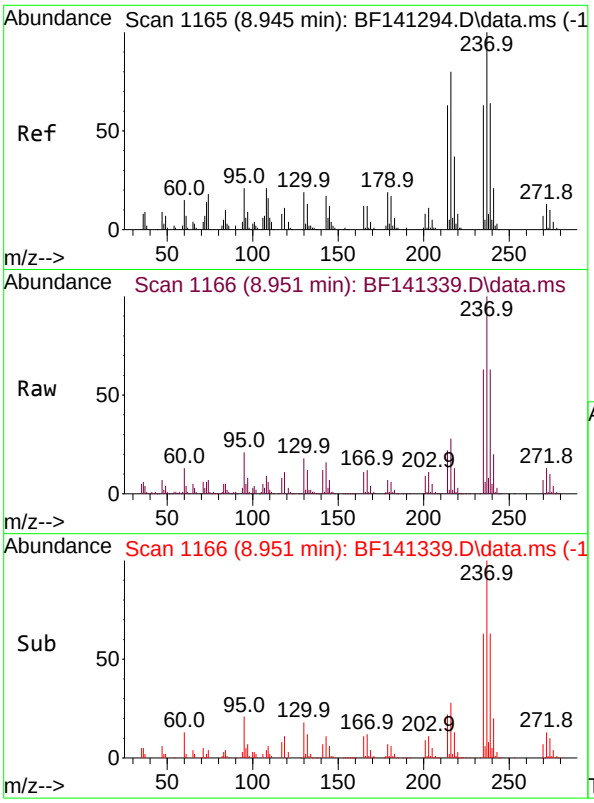


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.968 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:216 Resp: 302846

Ion	Ratio	Lower	Upper
216	100		
214	80.1	63.2	94.8
179	22.6	17.8	26.8
108	22.3	15.0	22.6

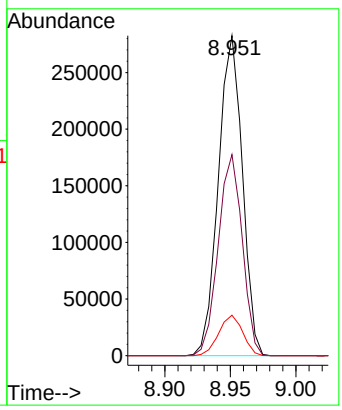




#41
Hexachlorocyclopentadiene
Concen: 205.225 ng
RT: 8.951 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:237 Resp: 36013

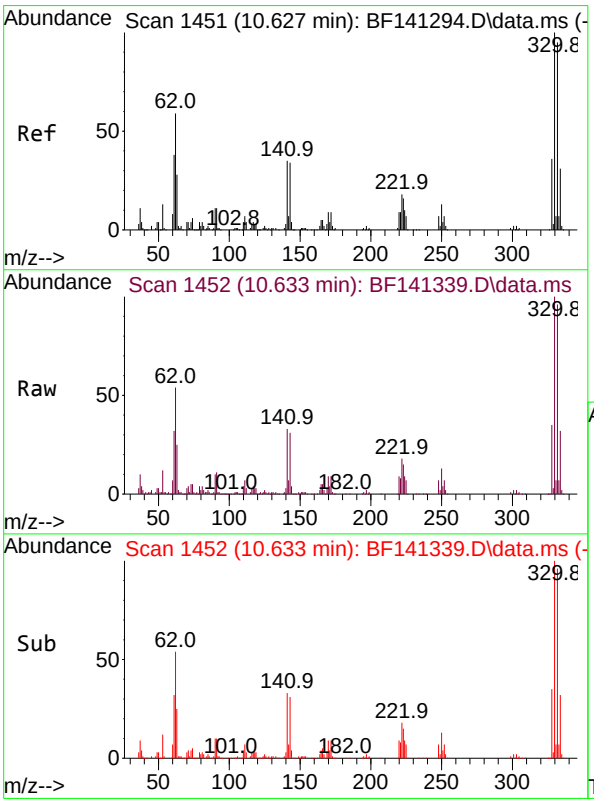
Ion	Ratio	Lower	Upper
237	100		
235	62.8	42.9	82.9
272	12.7	0.0	32.8



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

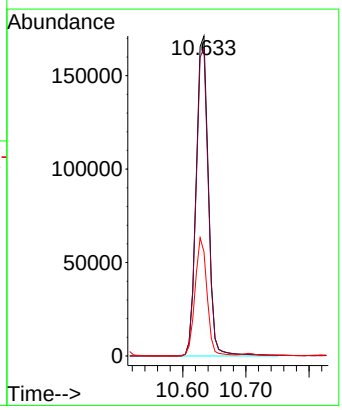
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

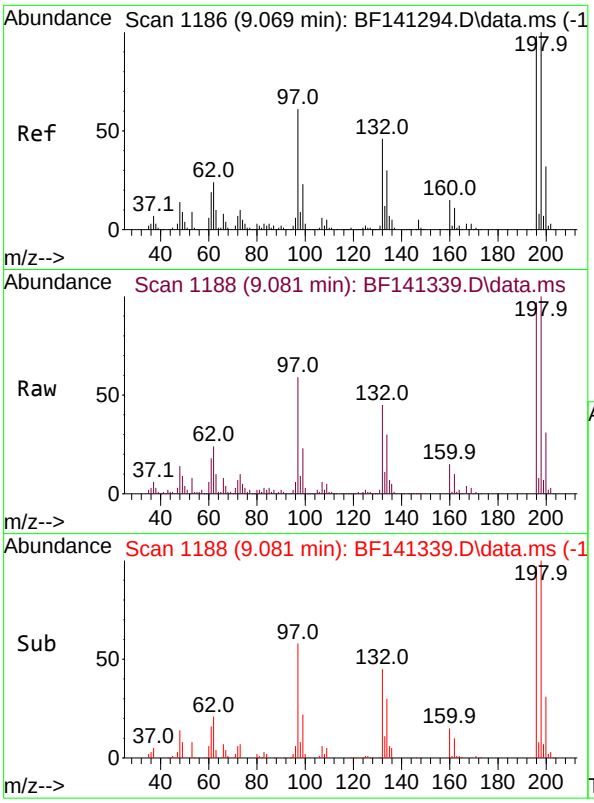


#42
2,4,6-Tribromophenol
Concen: 120.428 ng
RT: 10.633 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:330 Resp: 230592

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.1	114.1
141	36.3	28.8	43.2

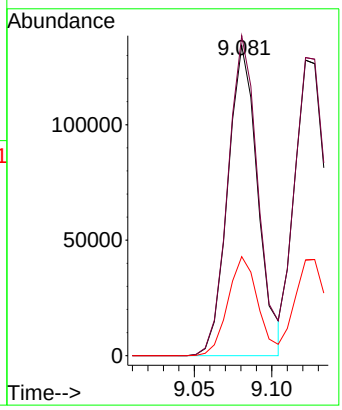




#43
2,4,6-Trichlorophenol
Concen: 46.415 ng
RT: 9.081 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:196 Resp: 18051

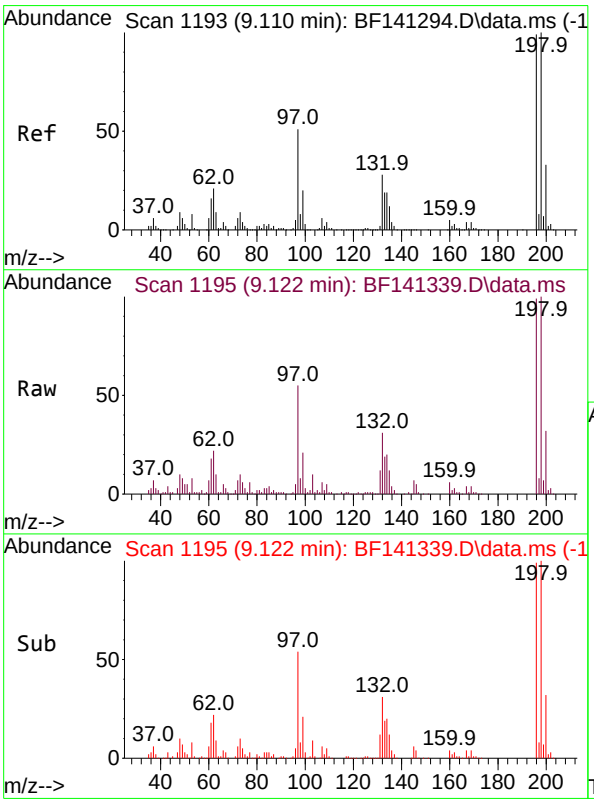
Ion	Ratio	Lower	Upper
196	100		
198	103.2	81.8	122.6
200	32.0	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

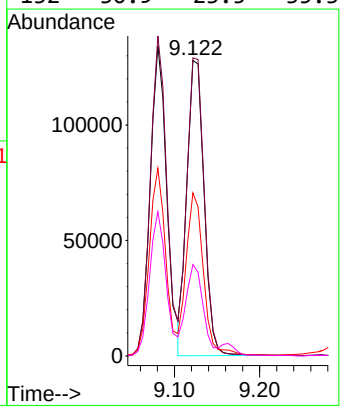
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

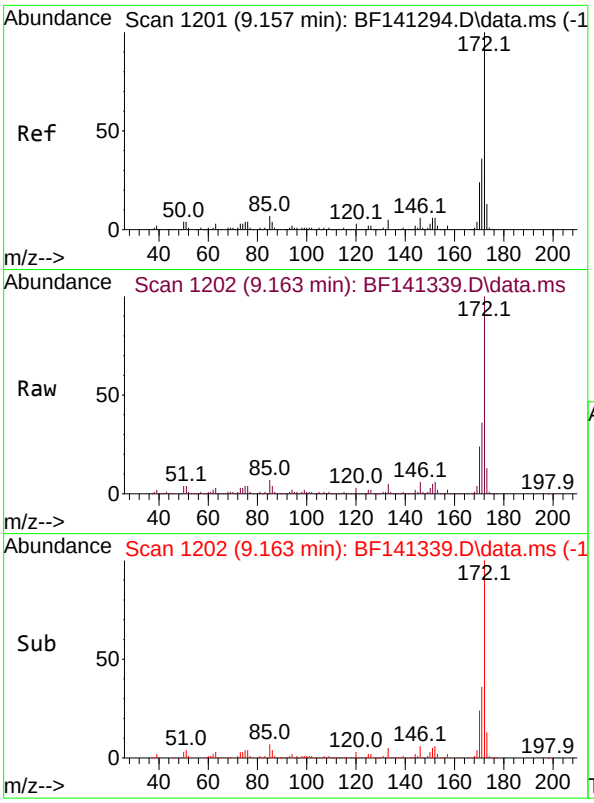


#44
2,4,5-Trichlorophenol
Concen: 42.443 ng
RT: 9.122 min Scan# 1195
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:196 Resp: 179658

Ion	Ratio	Lower	Upper
196	100		
198	100.9	80.5	120.7
97	55.2	42.8	64.2
132	30.9	23.5	35.3

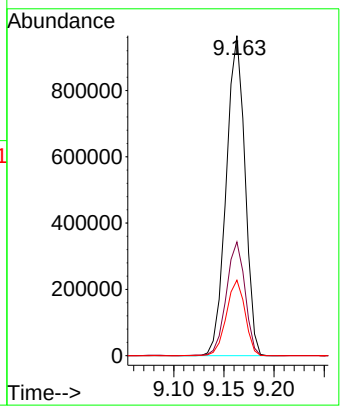




#45
2-Fluorobiphenyl
Concen: 92.560 ng
RT: 9.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:172 Resp: 125599

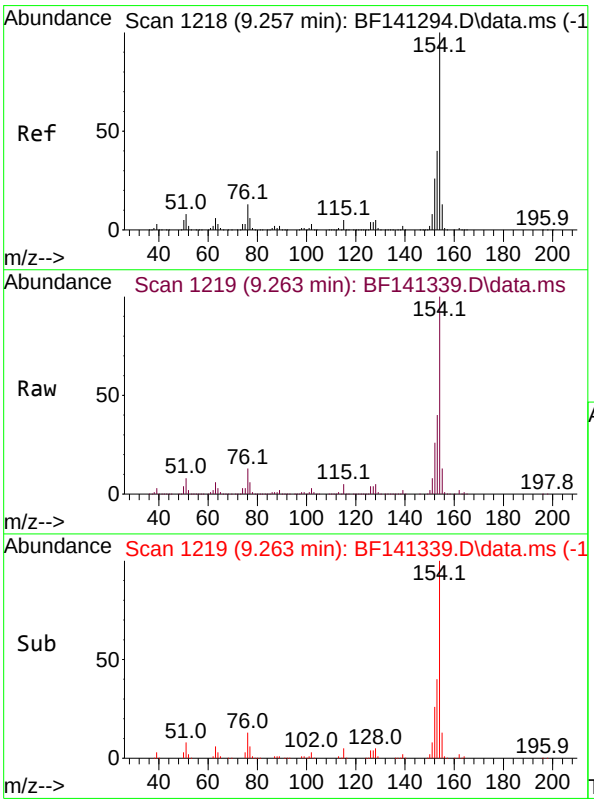
Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.6	19.0	28.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

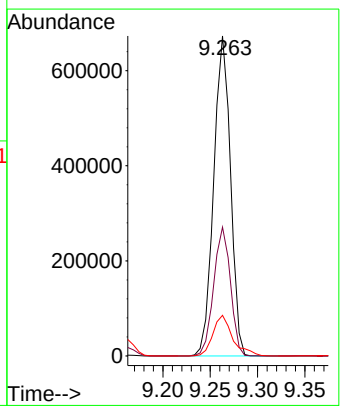
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

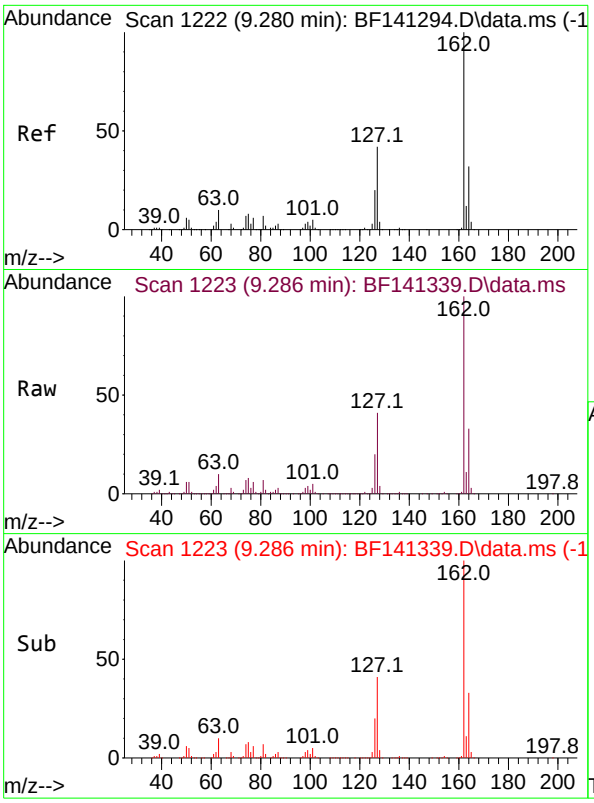


#46
1,1'-Biphenyl
Concen: 50.887 ng
RT: 9.263 min Scan# 1219
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:154 Resp: 828878

Ion	Ratio	Lower	Upper
154	100		
153	40.3	20.0	60.0
76	12.7	0.0	32.8

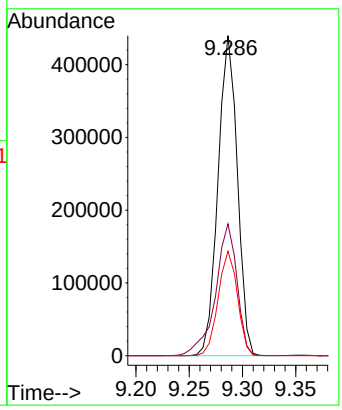




#47
2-Chloronaphthalene
Concen: 43.629 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:162 Resp: 55392

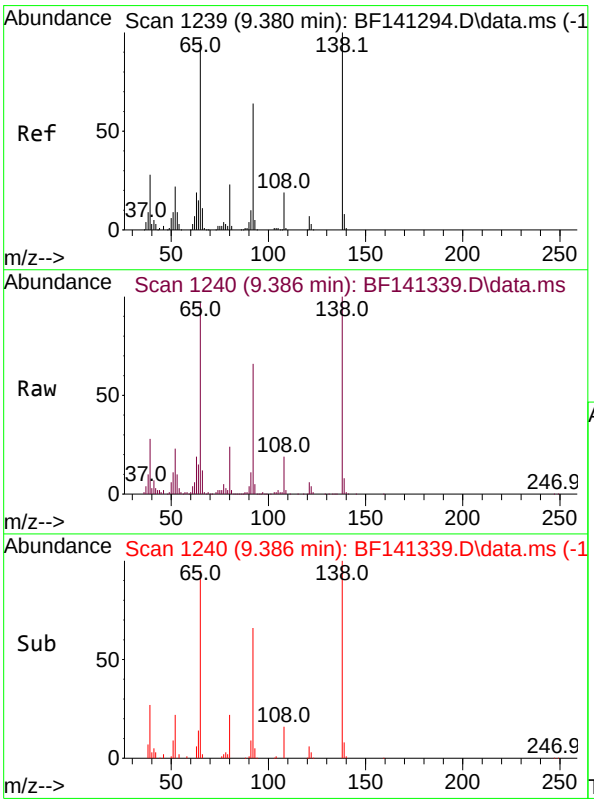
Ion	Ratio	Lower	Upper
162	100		
127	41.2	33.7	50.5
164	32.6	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

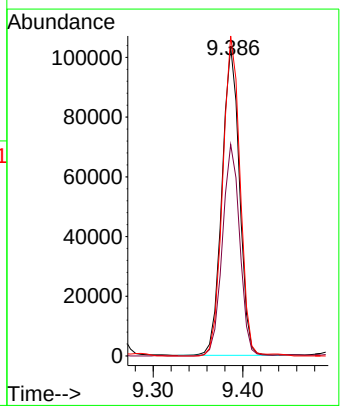
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

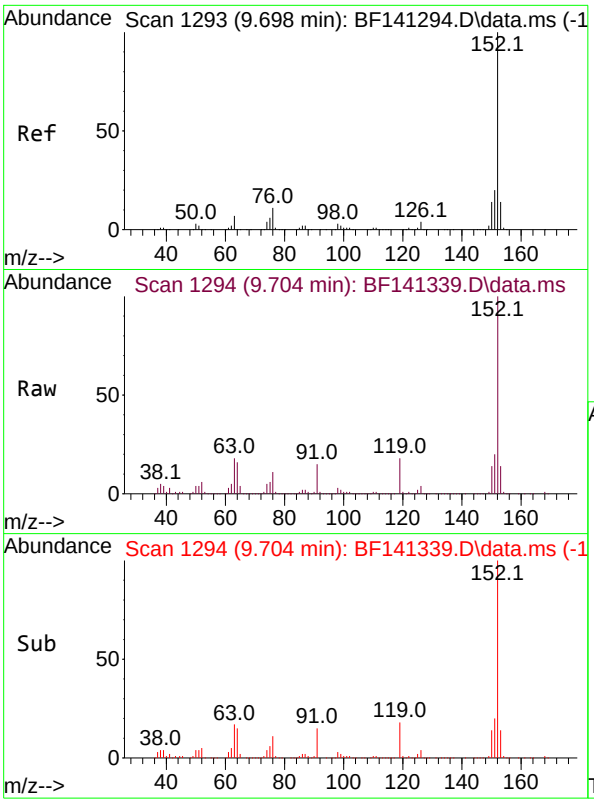


#48
2-Nitroaniline
Concen: 34.927 ng
RT: 9.386 min Scan# 1240
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 65 Resp: 139480

Ion	Ratio	Lower	Upper
65	100		
92	68.3	53.3	79.9
138	103.4	83.6	125.4

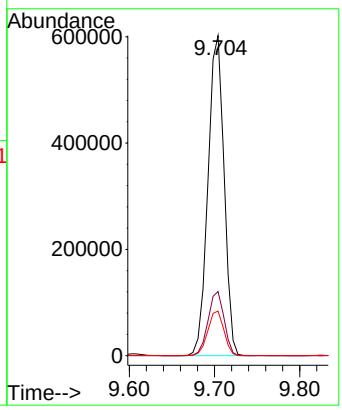




#49
Acenaphthylene
Concen: 44.453 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:152 Resp: 79002

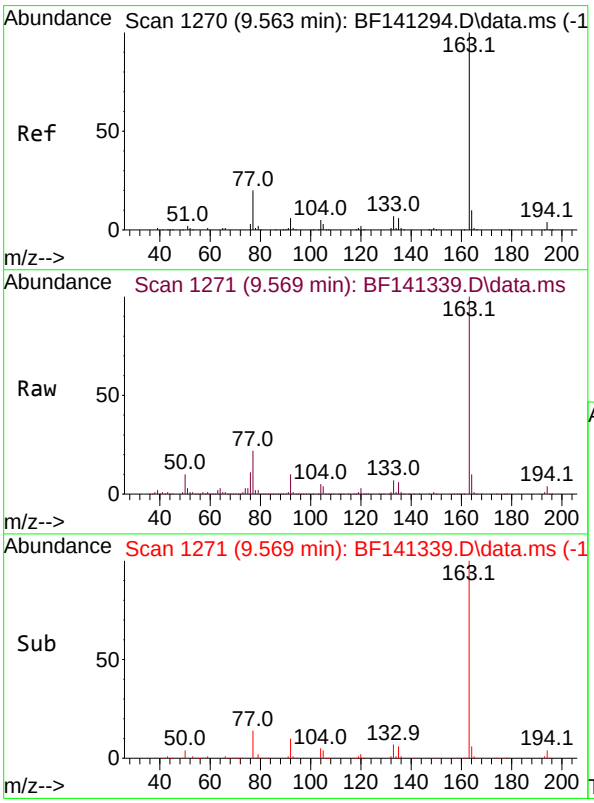
Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.2
153	13.9	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

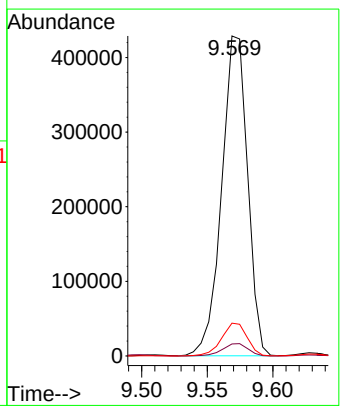
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

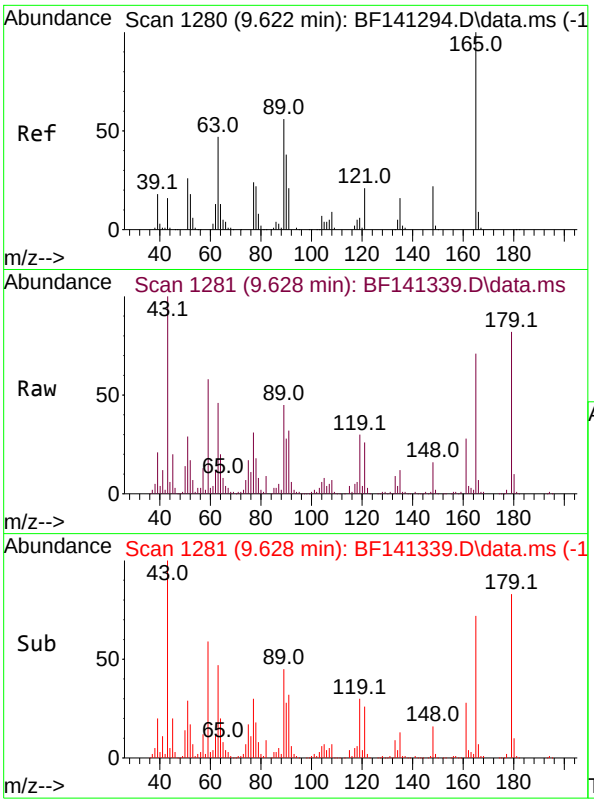


#50
Dimethylphthalate
Concen: 41.744 ng
RT: 9.569 min Scan# 1271
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:163 Resp: 588865

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.3	8.0	12.0

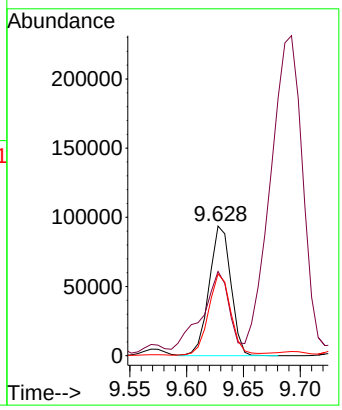




#51
2,6-Dinitrotoluene
Concen: 38.021 ng
RT: 9.628 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:165 Resp: 12453

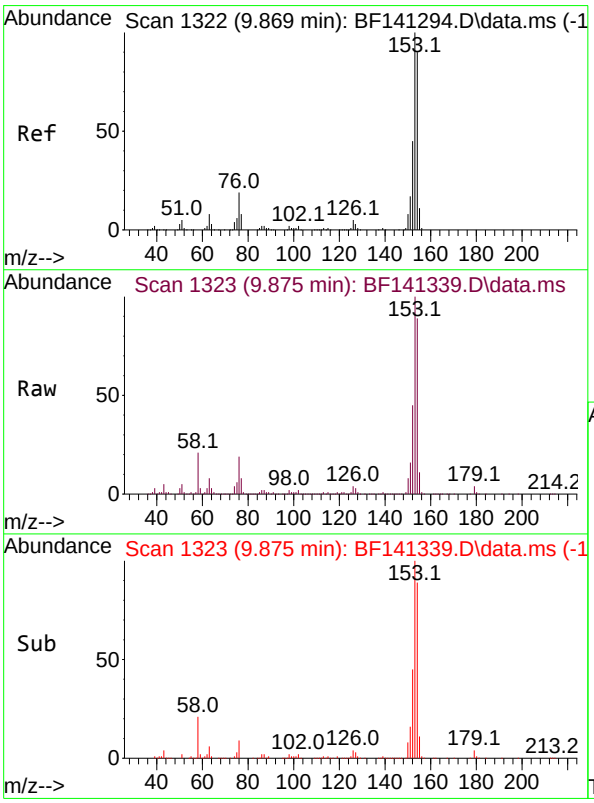
Ion	Ratio	Lower	Upper
165	100		
63	64.9	48.1	72.1
89	63.0	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

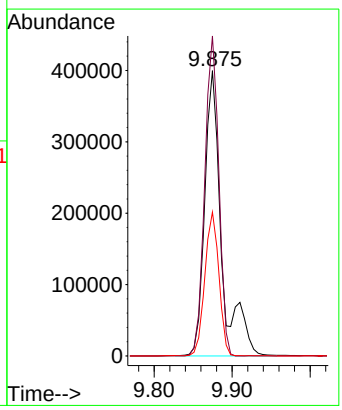
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

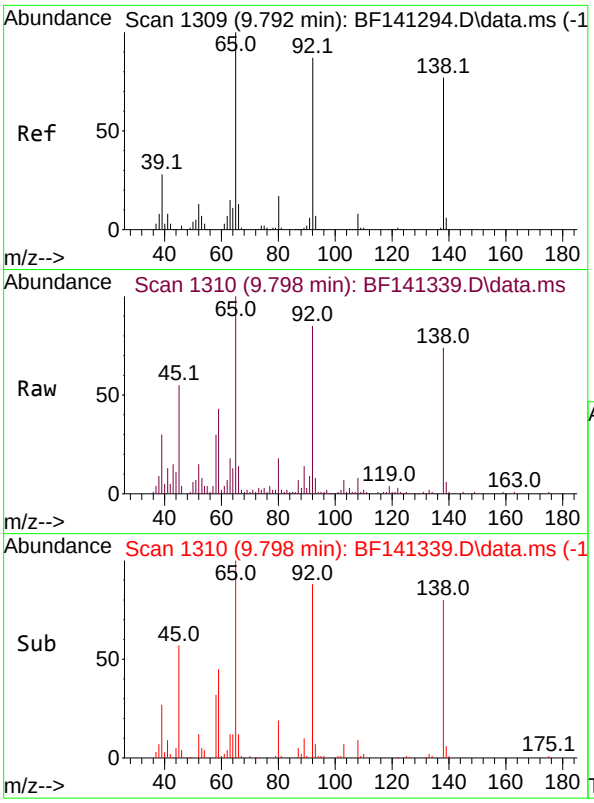


#52
Acenaphthene
Concen: 47.672 ng m
RT: 9.875 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:154 Resp: 605265

Ion	Ratio	Lower	Upper
154	100		
153	112.2	89.0	133.4
152	50.4	40.2	60.4





#53
3-Nitroaniline
Concen: 11.394 ng
RT: 9.798 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

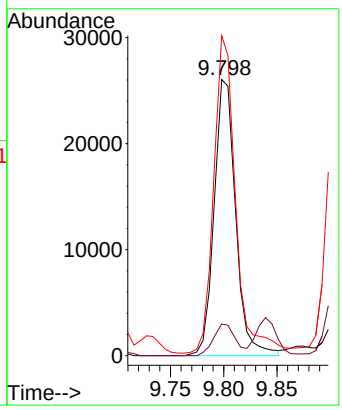
Tgt Ion:138 Resp: 3657

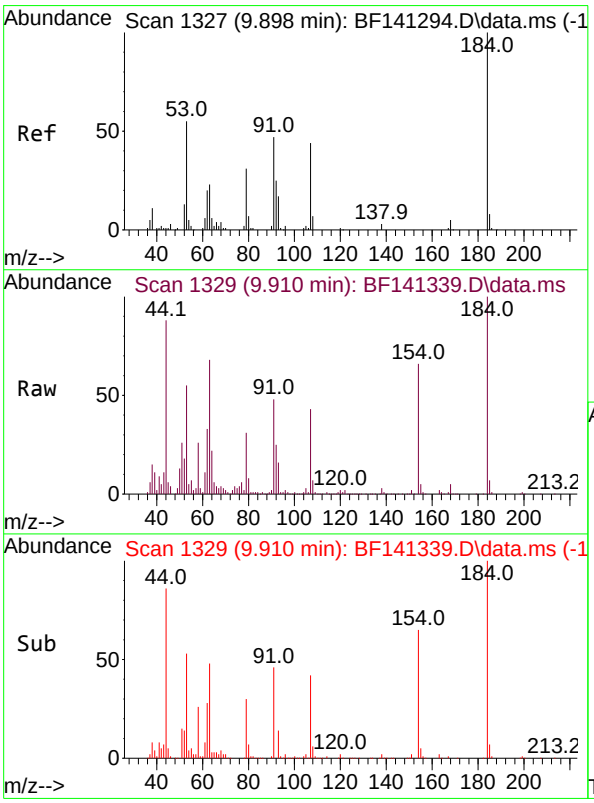
Ion	Ratio	Lower	Upper
138	100		
108	11.5	8.6	12.8
92	115.8	91.0	136.6

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

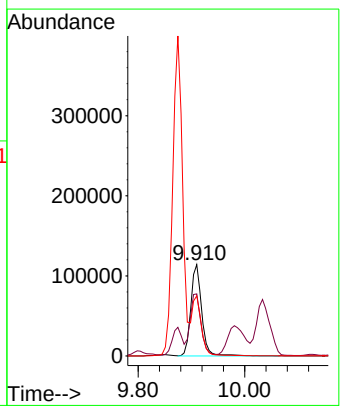


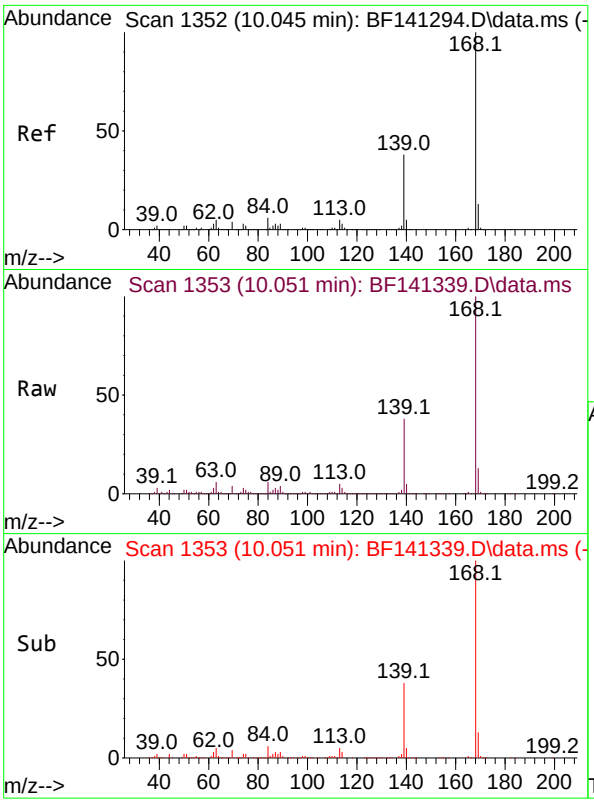


#54
2,4-Dinitrophenol
Concen: 106.201 ng
RT: 9.910 min Scan# 1329
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:184 Resp: 161698

Ion	Ratio	Lower	Upper
184	100		
63	67.9	54.1	81.1
154	65.8	50.7	76.1

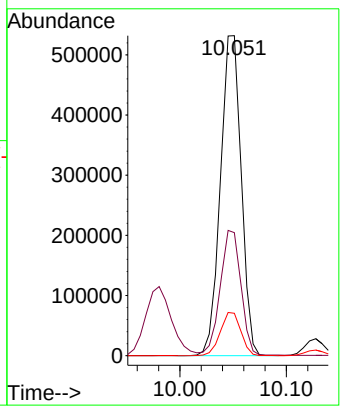




#55
Dibenzofuran
Concen: 42.376 ng
RT: 10.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:168 Resp: 72018

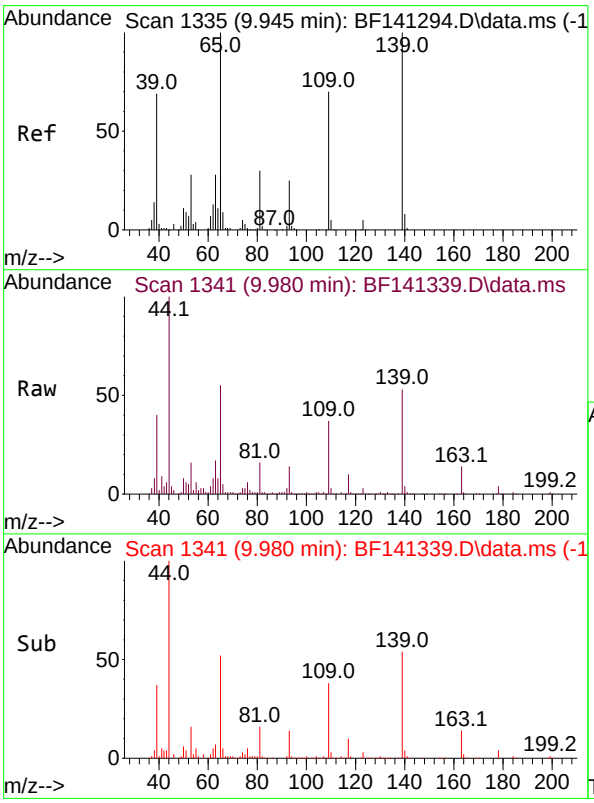
Ion	Ratio	Lower	Upper
168	100		
139	38.5	30.6	46.0
169	13.2	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

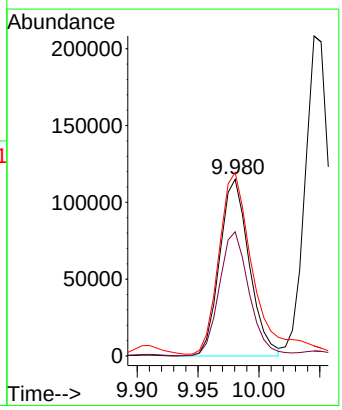
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

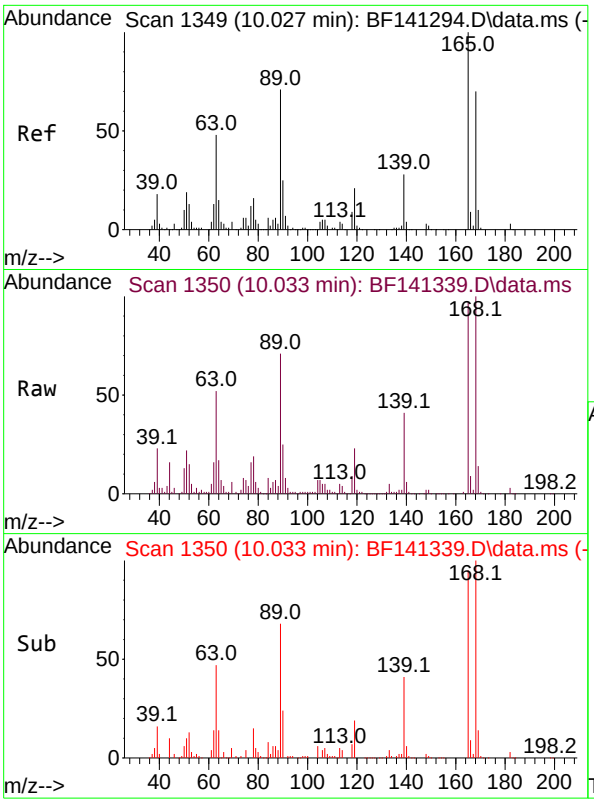


#56
4-Nitrophenol
Concen: 82.853 ng
RT: 9.980 min Scan# 1341
Delta R.T. 0.023 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:139 Resp: 194516

Ion	Ratio	Lower	Upper
139	100		
109	70.2	50.2	90.2
65	103.8	80.6	120.6

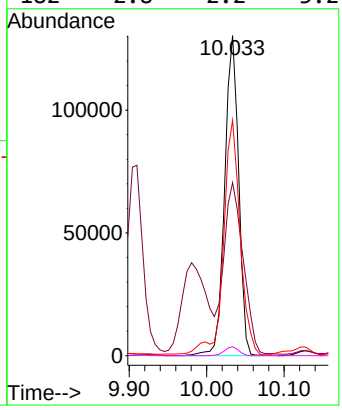




#57
2,4-Dinitrotoluene
Concen: 38.431 ng
RT: 10.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:165 Resp: 16297

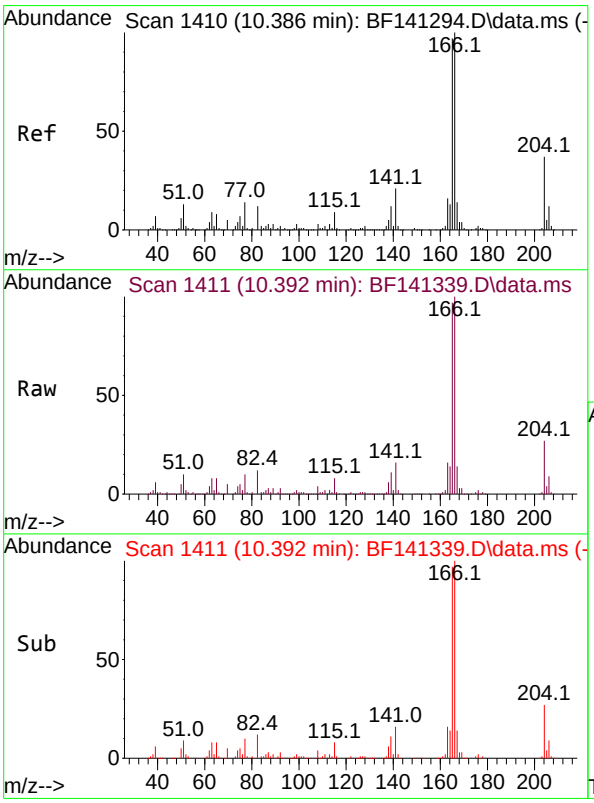
Ion	Ratio	Lower	Upper
165	100		
63	54.1	39.2	58.8
89	73.5	56.9	85.3
182	2.8	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

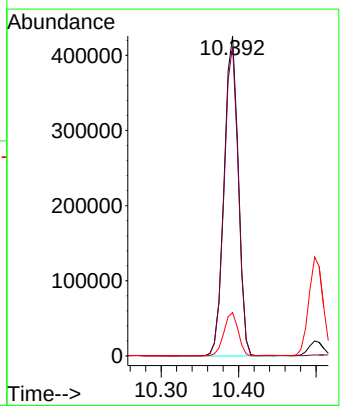
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

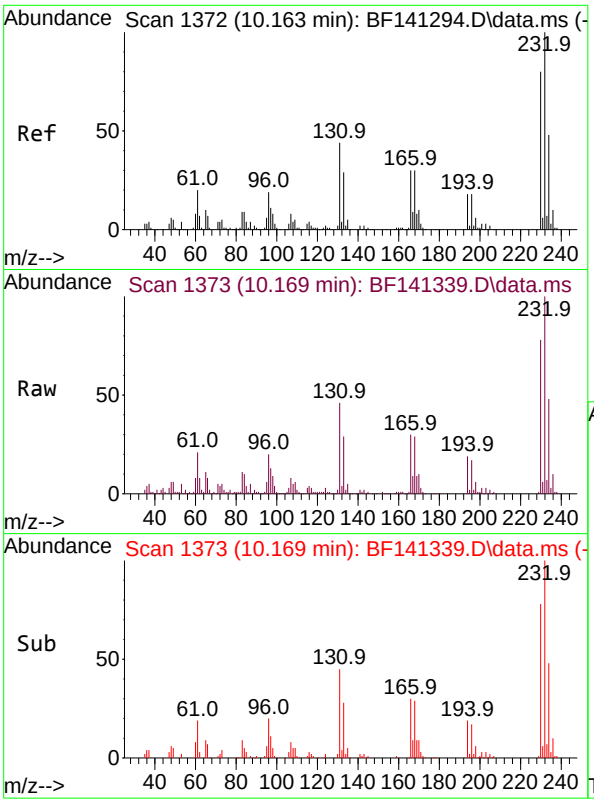


#58
Fluorene
Concen: 41.256 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:166 Resp: 543864

Ion	Ratio	Lower	Upper
166	100		
165	96.9	77.5	116.3
167	13.6	10.9	16.3

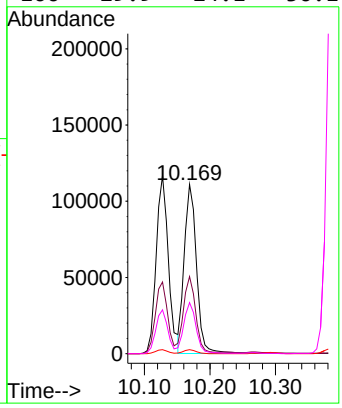




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.276 ng
RT: 10.169 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:232 Resp: 14411

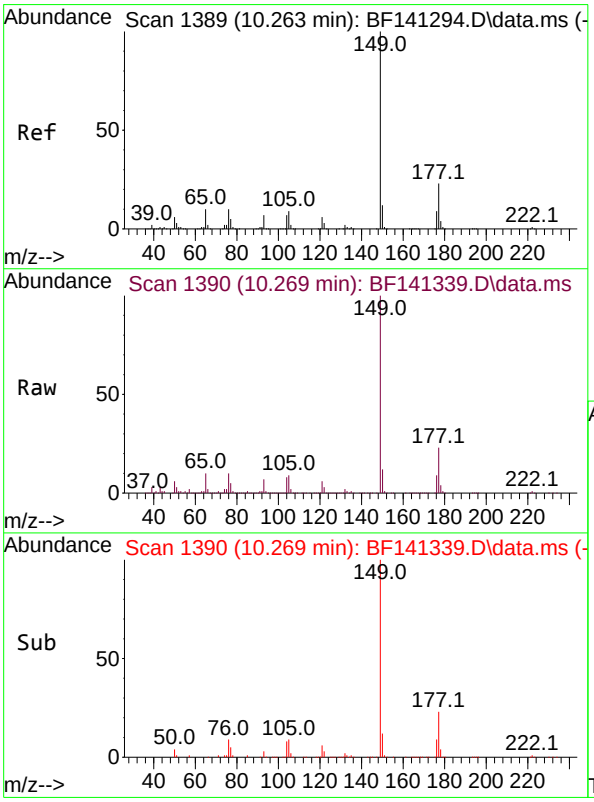
Ion	Ratio	Lower	Upper
232	100		
131	44.0	36.4	54.6
130	2.5	1.9	2.9
166	29.9	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

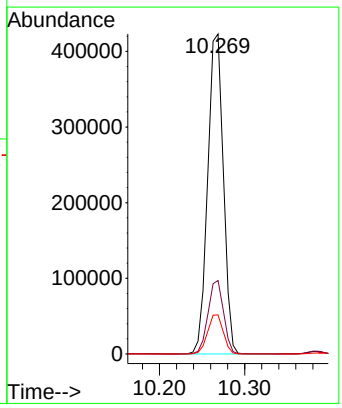
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

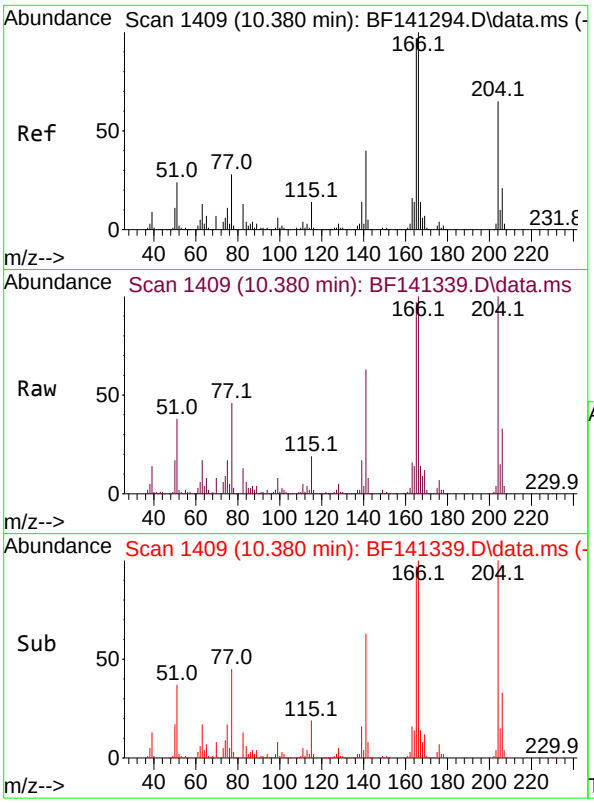


#60
Diethylphthalate
Concen: 39.529 ng
RT: 10.269 min Scan# 1390
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:149 Resp: 540663

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.5	27.7
150	12.2	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 41.397 ng
RT: 10.380 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

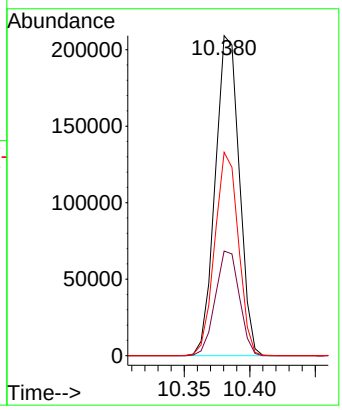
Tgt Ion:204 Resp: 26656

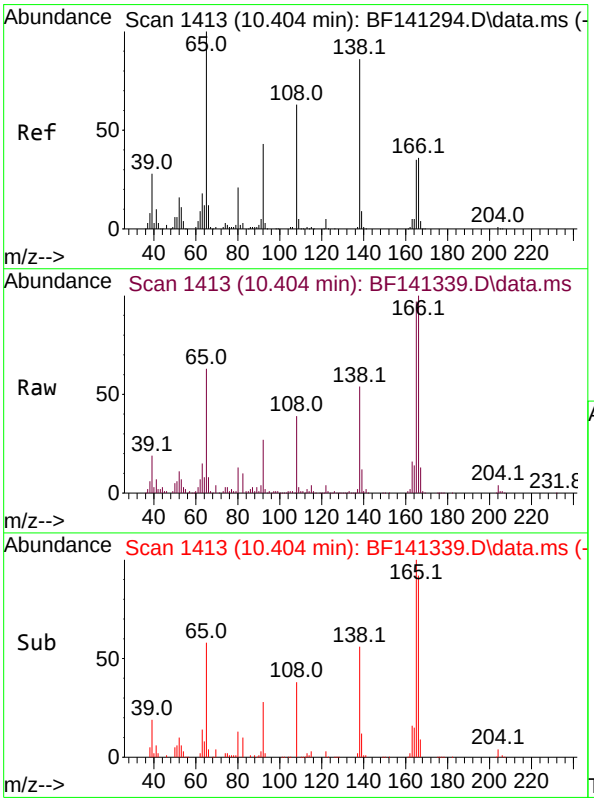
Ion	Ratio	Lower	Upper
204	100		
206	32.7	25.9	38.9
141	63.6	49.5	74.3

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

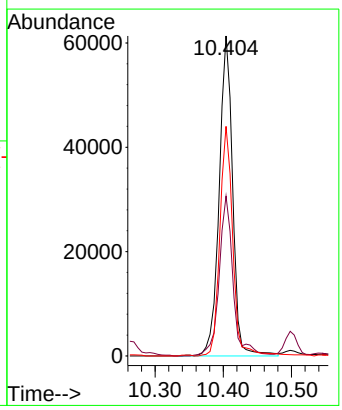


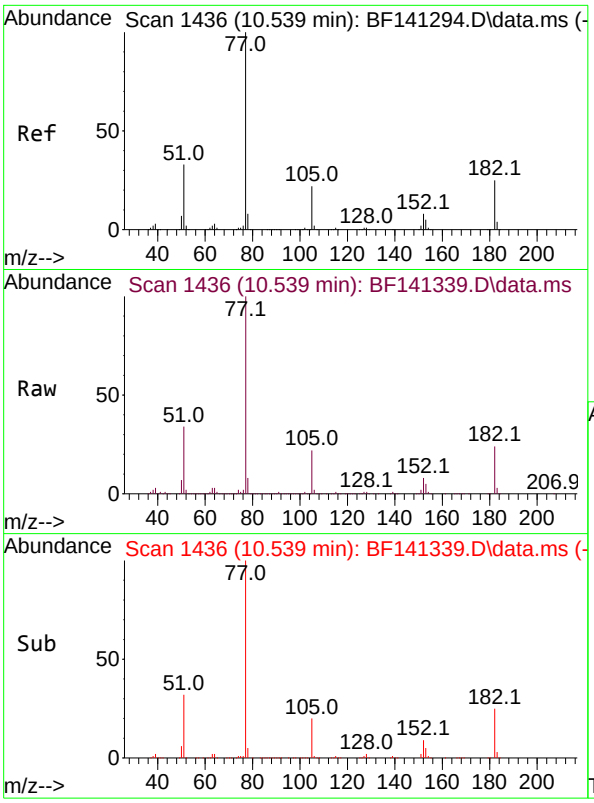


#62
4-Nitroaniline
Concen: 26.819 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:138 Resp: 84643

Ion	Ratio	Lower	Upper
138	100		
92	49.9	30.1	70.1
108	71.8	53.1	93.1

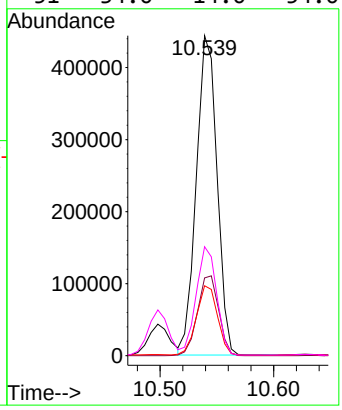




#63
Azobenzene
Concen: 41.085 ng
RT: 10.539 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion: 77 Resp: 56249

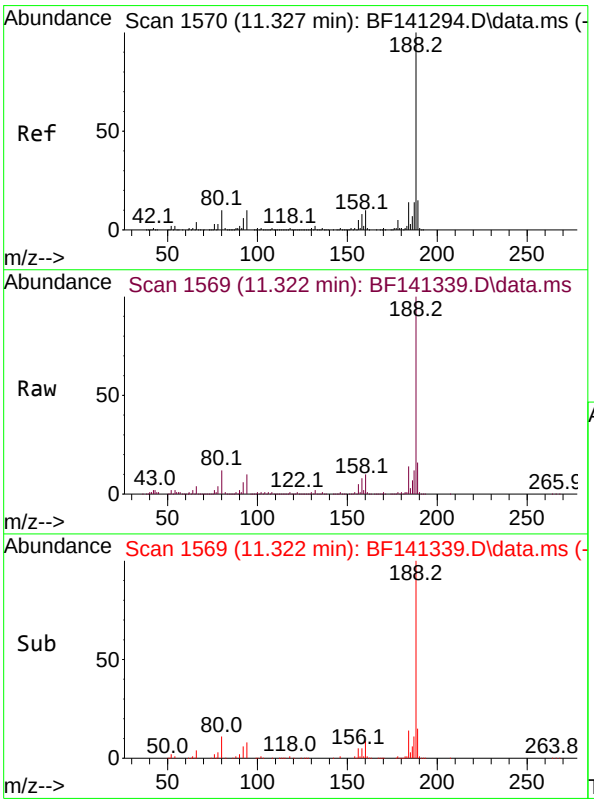
Ion	Ratio	Lower	Upper
77	100		
182	24.3	5.1	45.1
105	21.8	1.8	41.8
51	34.0	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

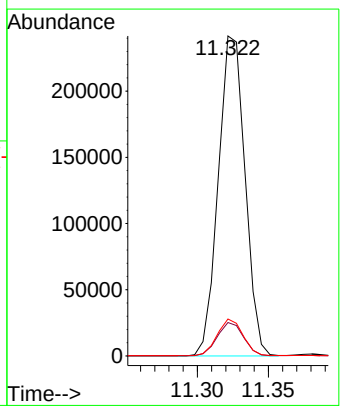
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

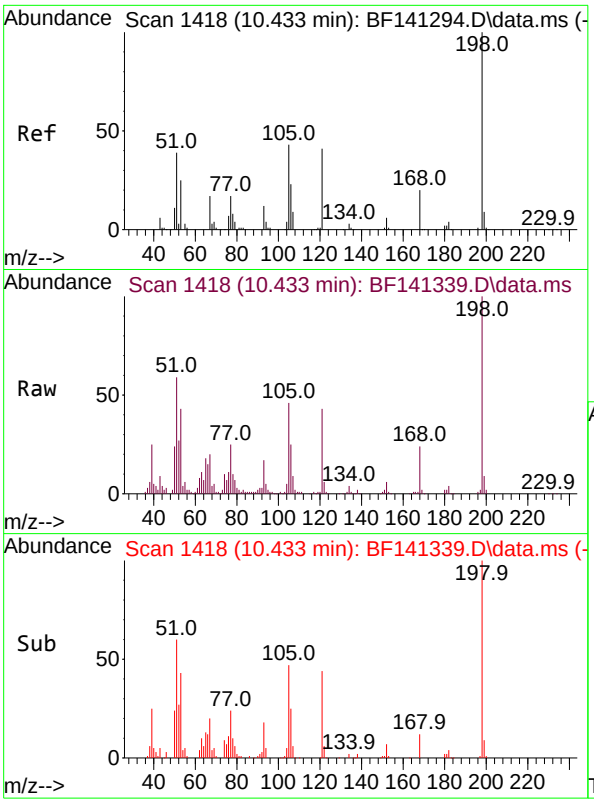


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:188 Resp: 316494

Ion	Ratio	Lower	Upper
188	100		
94	10.5	7.8	11.6
80	11.5	8.2	12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 49.633 ng
RT: 10.433 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

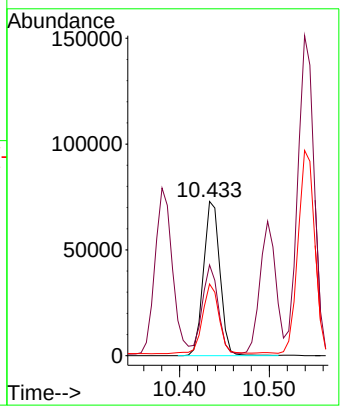
Tgt Ion:198 Resp: 9291(

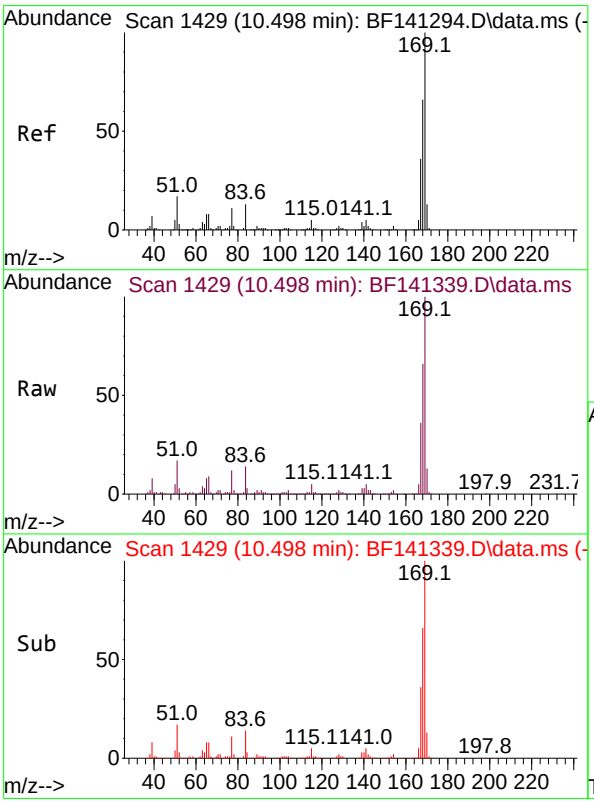
Ion	Ratio	Lower	Upper
198	100		
51	58.8	33.4	73.4
105	46.4	24.4	64.4

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

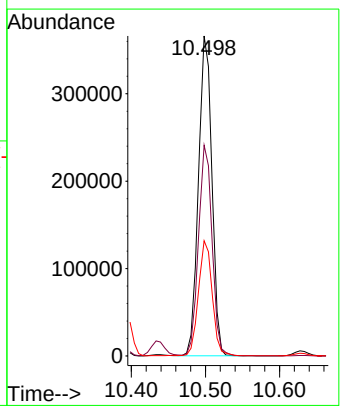


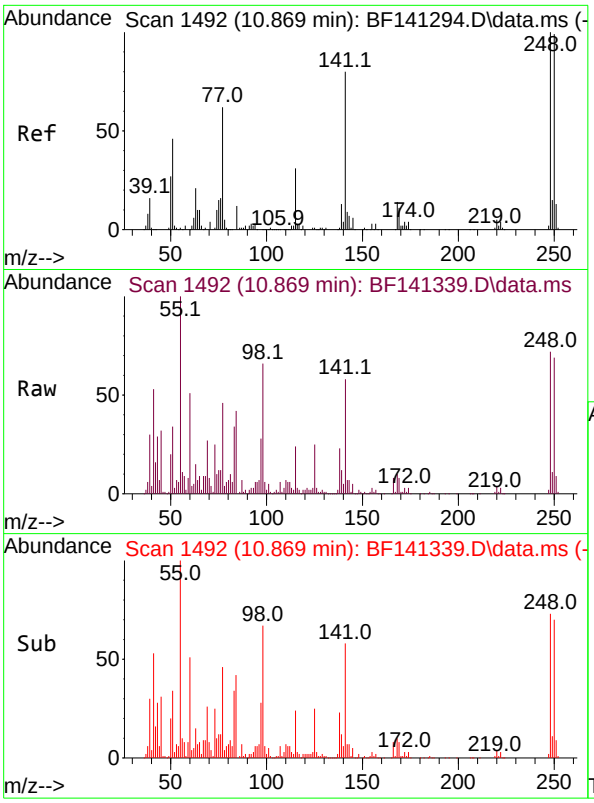


#66
n-Nitrosodiphenylamine
Concen: 45.111 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:169 Resp: 461781

Ion	Ratio	Lower	Upper
169	100		
168	65.8	53.0	79.4
167	36.0	28.8	43.2





#67
4-Bromophenyl-phenylether
Concen: 42.495 ng
RT: 10.869 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

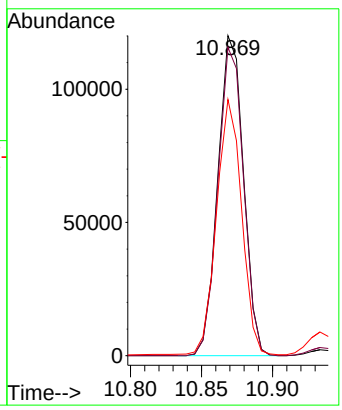
Tgt Ion:248 Resp: 15057

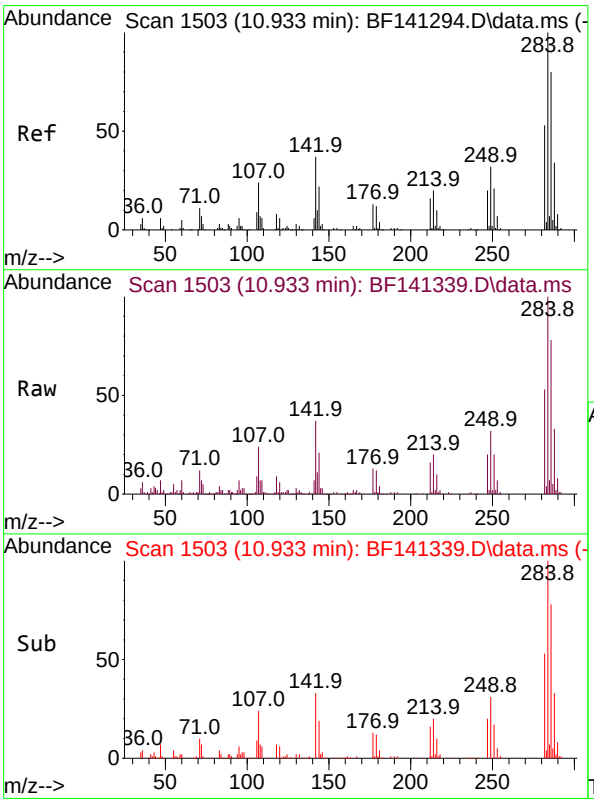
Ion	Ratio	Lower	Upper
248	100		
250	96.4	79.0	118.4
141	80.1	63.7	95.5

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

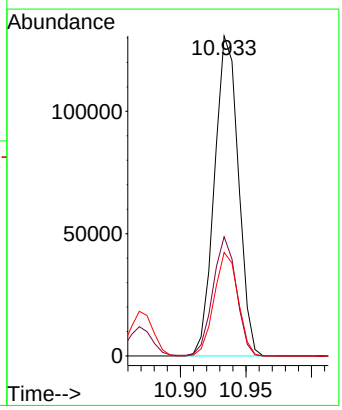


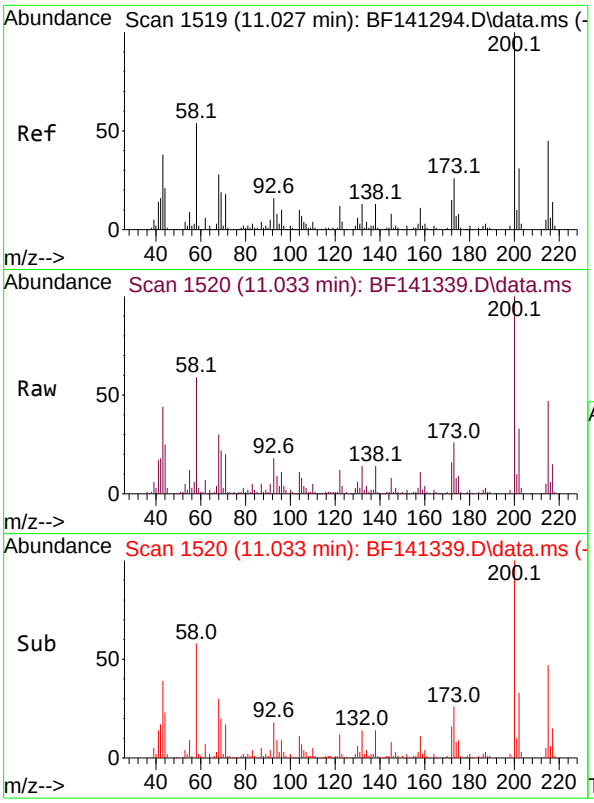


#68
Hexachlorobenzene
Concen: 44.161 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:284 Resp: 165980

Ion	Ratio	Lower	Upper
284	100		
142	37.2	29.5	44.3
249	32.3	25.4	38.2

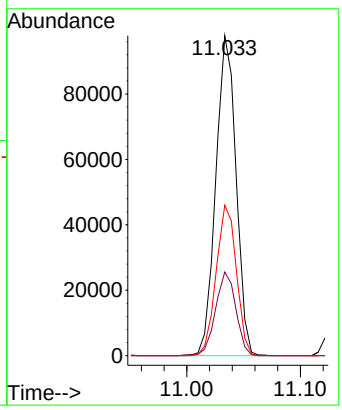




#69
Atrazine
Concen: 35.433 ng
RT: 11.033 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:200 Resp: 12127

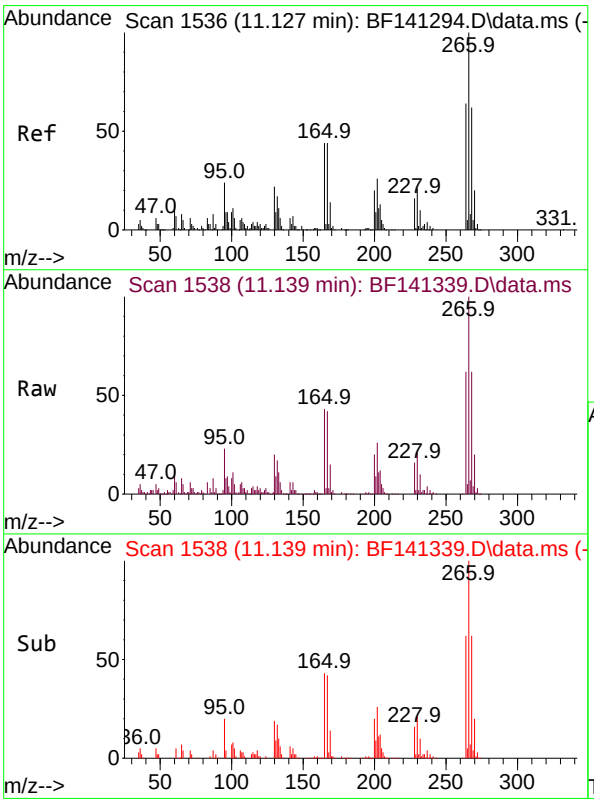
Ion	Ratio	Lower	Upper
200	100		
173	26.1	5.9	45.9
215	47.0	25.2	65.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

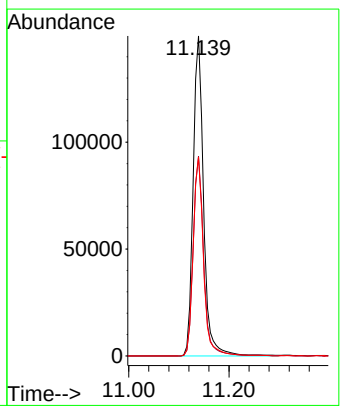
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

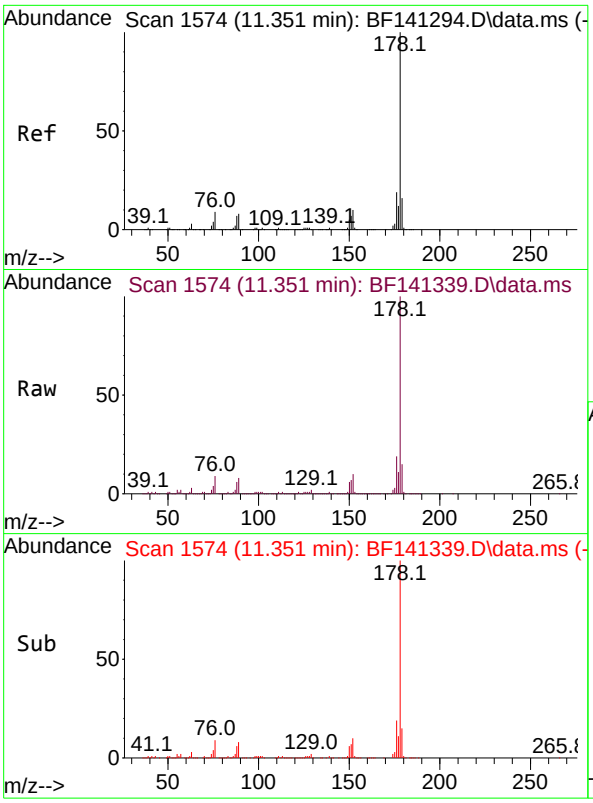


#70
Pentachlorophenol
Concen: 98.106 ng
RT: 11.139 min Scan# 1538
Delta R.T. 0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:266 Resp: 215923

Ion	Ratio	Lower	Upper
266	100		
268	62.5	49.9	74.9
264	62.2	51.0	76.4

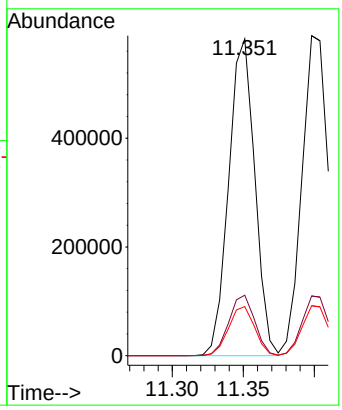




#71
Phenanthrene
Concen: 43.844 ng
RT: 11.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:178 Resp: 74590

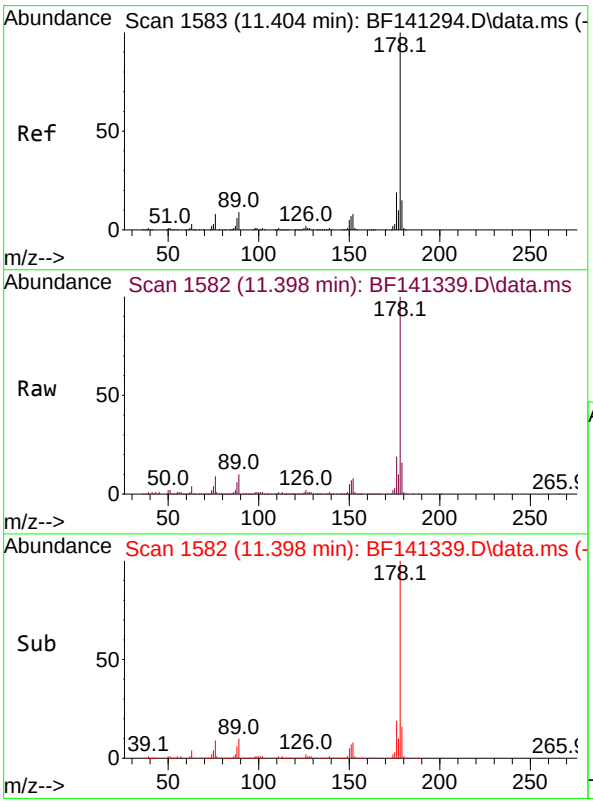
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.5	12.5	18.7



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

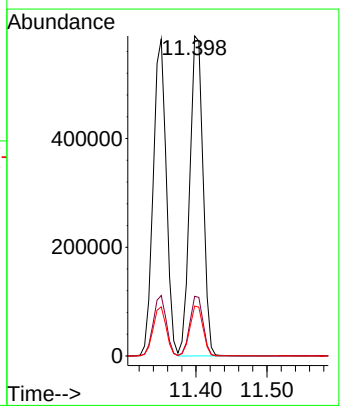
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

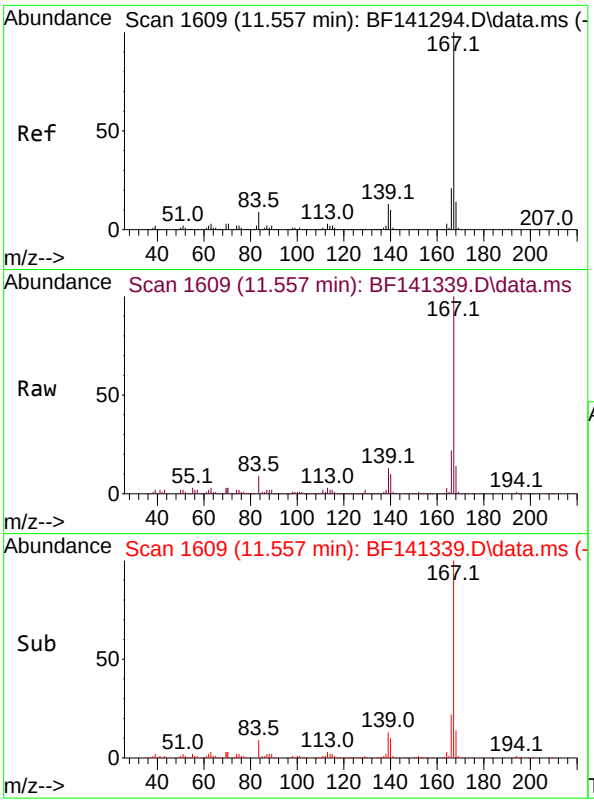


#72
Anthracene
Concen: 45.737 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:178 Resp: 762409

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.6	12.3	18.5





#73
Carbazole
Concen: 42.989 ng
RT: 11.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

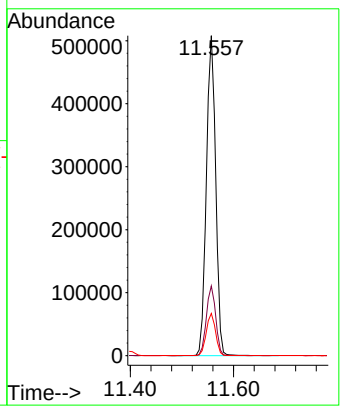
Tgt Ion:167 Resp: 63542

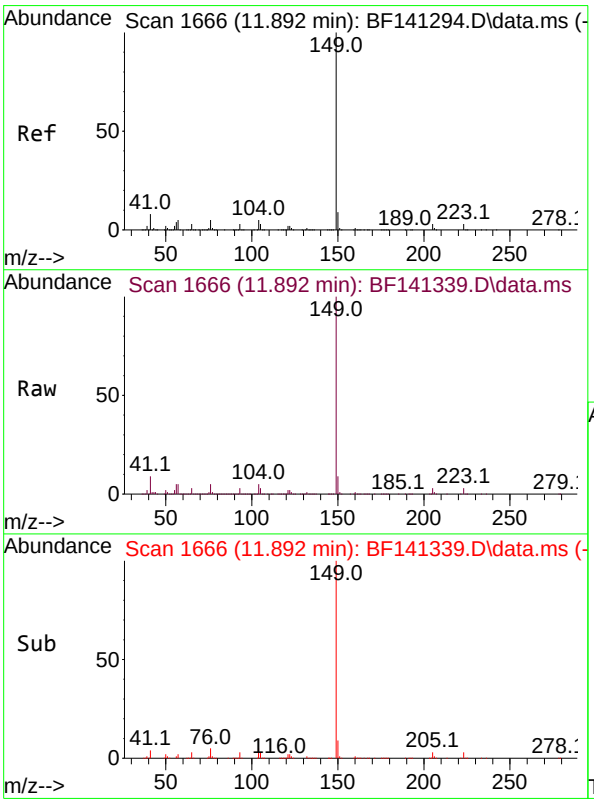
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.0	25.6
139	13.2	10.6	16.0

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

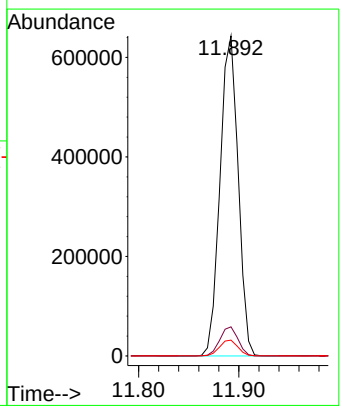


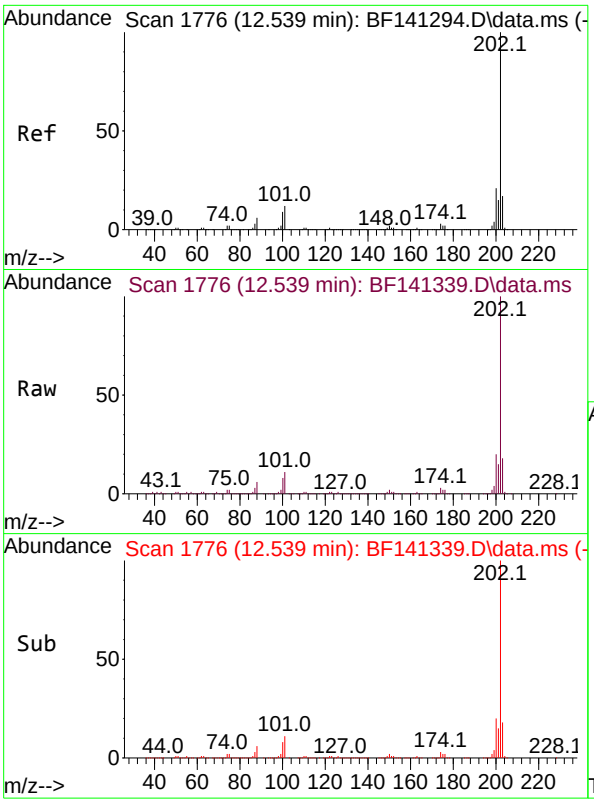


#74
Di-n-butylphthalate
Concen: 45.026 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:149 Resp: 806567

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	4.9	3.9	5.9

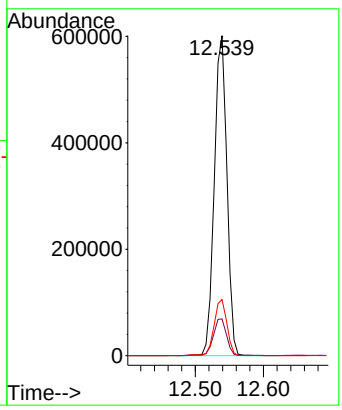




#75
Fluoranthene
Concen: 46.086 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:202 Resp: 77417

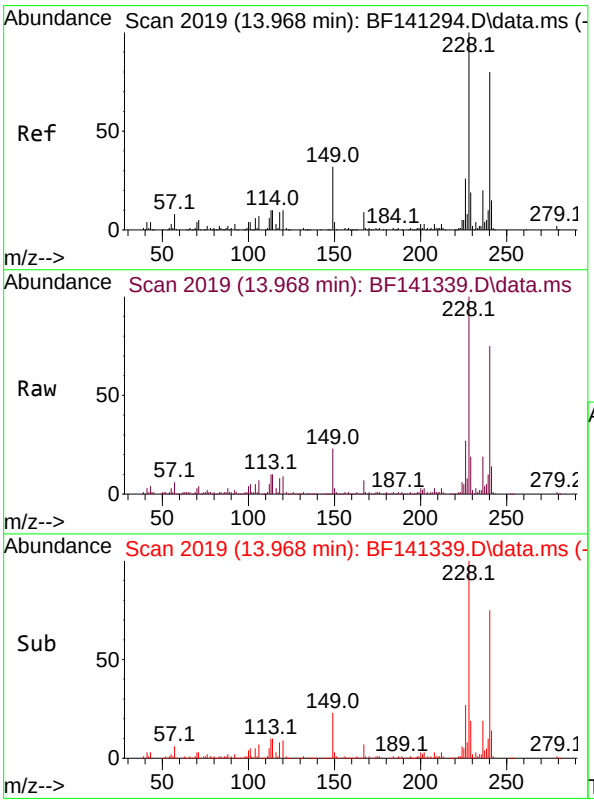
Ion	Ratio	Lower	Upper
202	100		
101	11.5	0.0	31.7
203	17.6	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

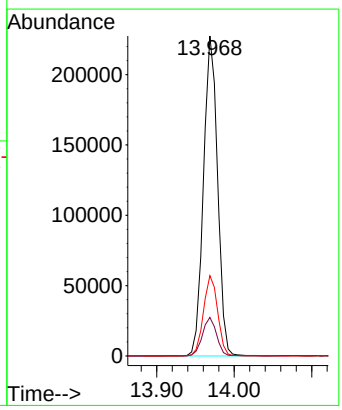
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

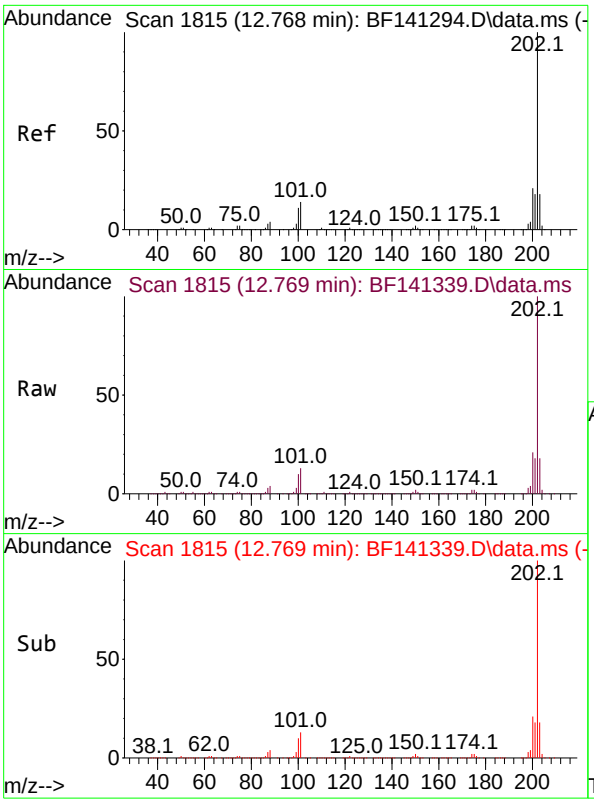


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:240 Resp: 287072

Ion	Ratio	Lower	Upper
240	100		
120	12.1	10.0	15.0
236	25.1	19.7	29.5

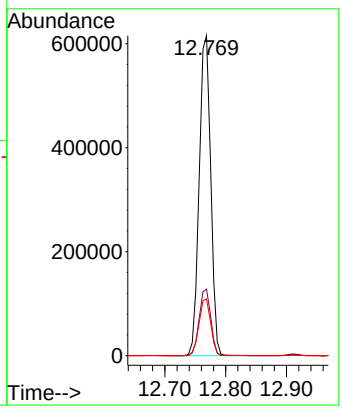




#78
Pyrene
Concen: 29.264 ng
RT: 12.769 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:202 Resp: 80641

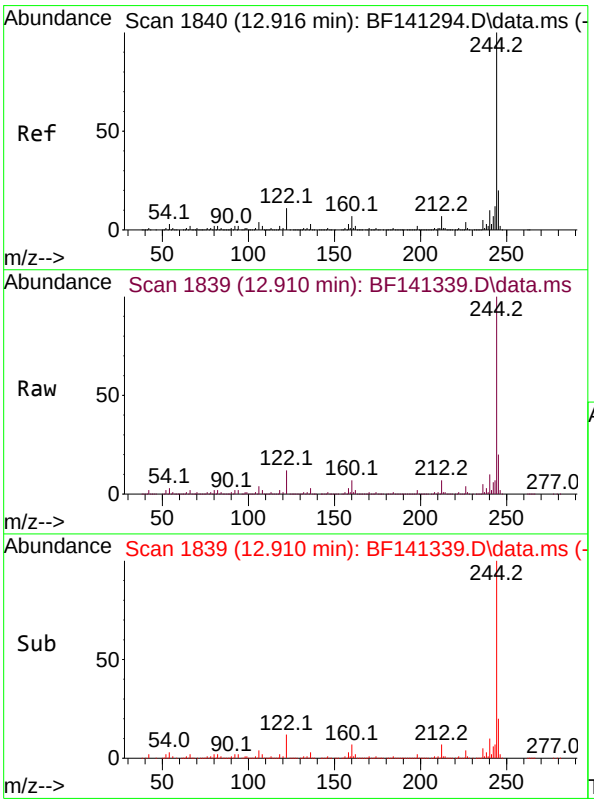
Ion	Ratio	Lower	Upper
202	100		
200	20.8	17.0	25.4
203	17.7	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

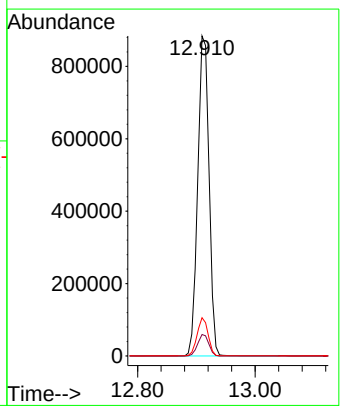
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

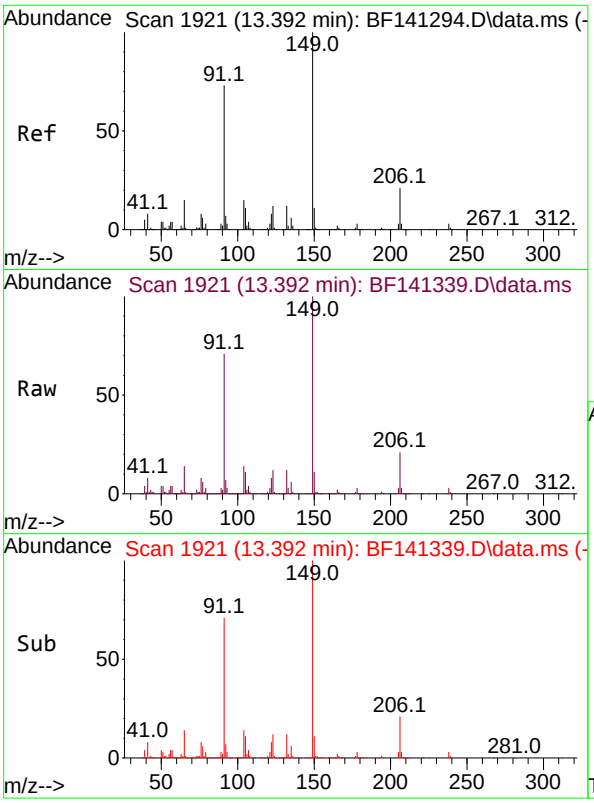


#79
Terphenyl-d14
Concen: 63.332 ng
RT: 12.910 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:244 Resp: 1178895

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.4	8.0
122	11.9	8.8	13.2

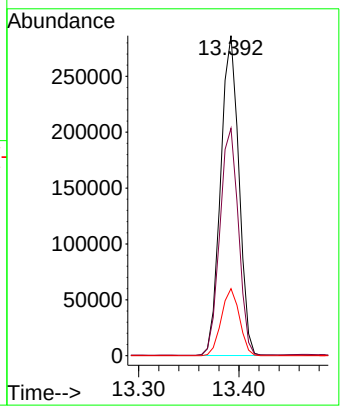




#80
Butylbenzylphthalate
Concen: 37.525 ng
RT: 13.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:149 Resp: 36124

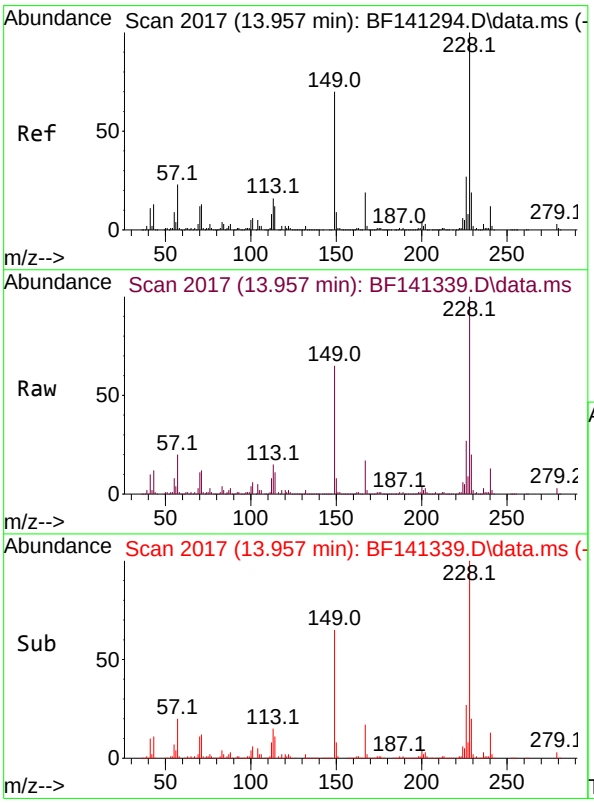
Ion	Ratio	Lower	Upper
149	100		
91	71.1	58.6	87.8
206	20.9	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

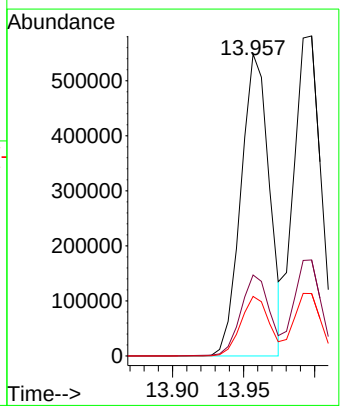
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

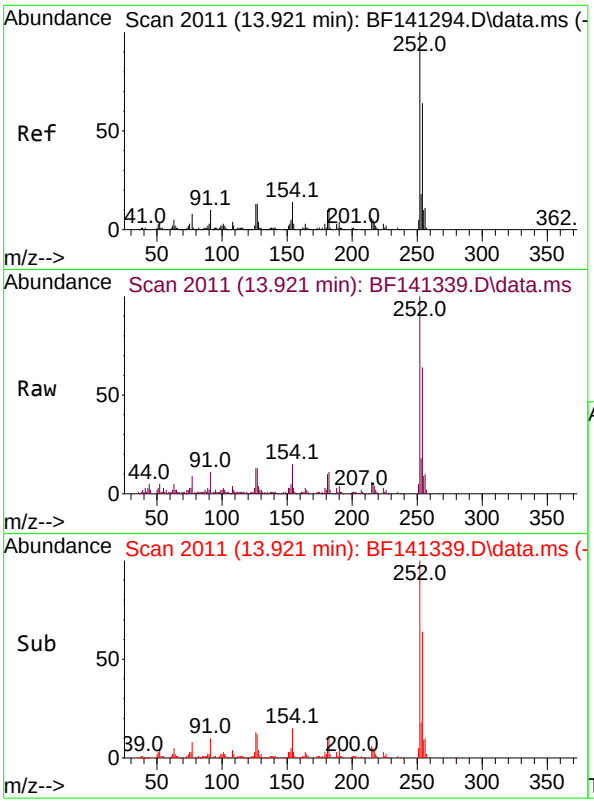


#81
Benzo(a)anthracene
Concen: 38.521 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:228 Resp: 763079

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.4	32.2
229	19.7	15.5	23.3

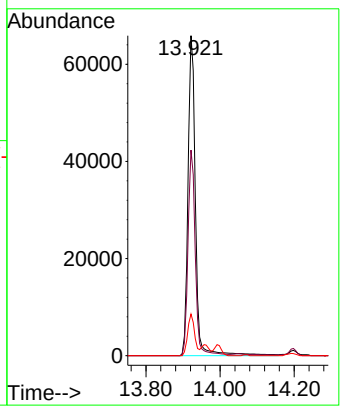




#82
3,3'-Dichlorobenzidine
Concen: 14.589 ng
RT: 13.921 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:252 Resp: 9192

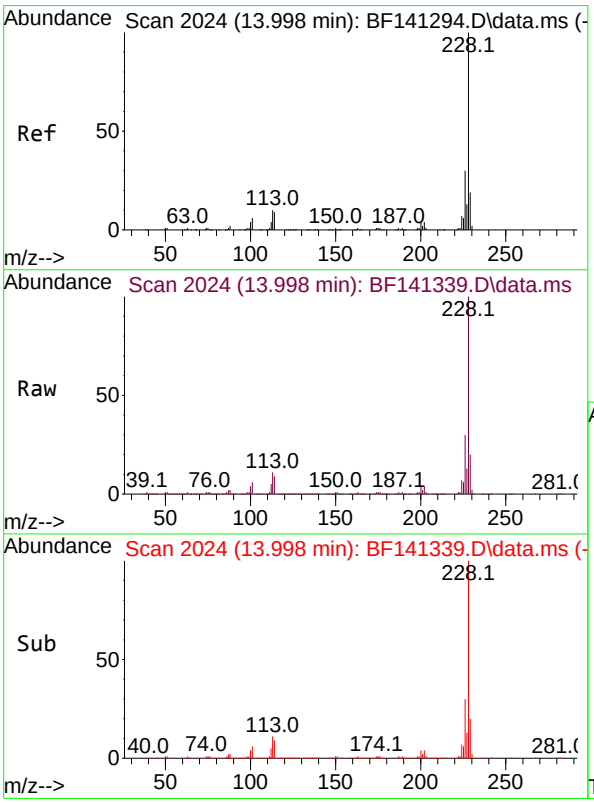
Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.3	76.9
126	13.0	10.0	15.0



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

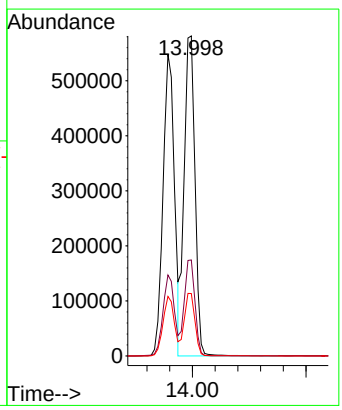
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

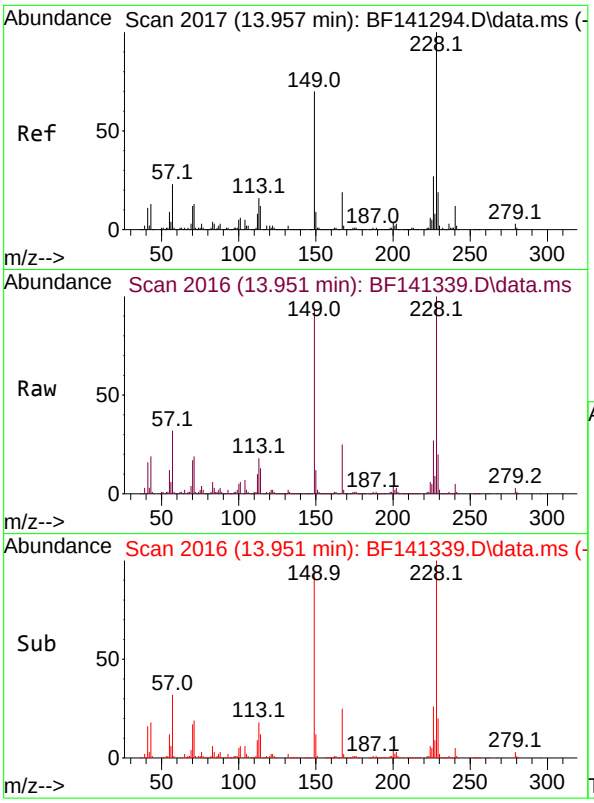


#83
Chrysene
Concen: 42.385 ng
RT: 13.998 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:228 Resp: 769489

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.1	36.1
229	19.5	15.6	23.4





#84
Bis(2-ethylhexyl)phthalate
Concen: 40.451 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

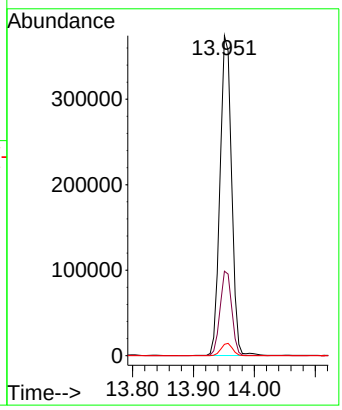
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

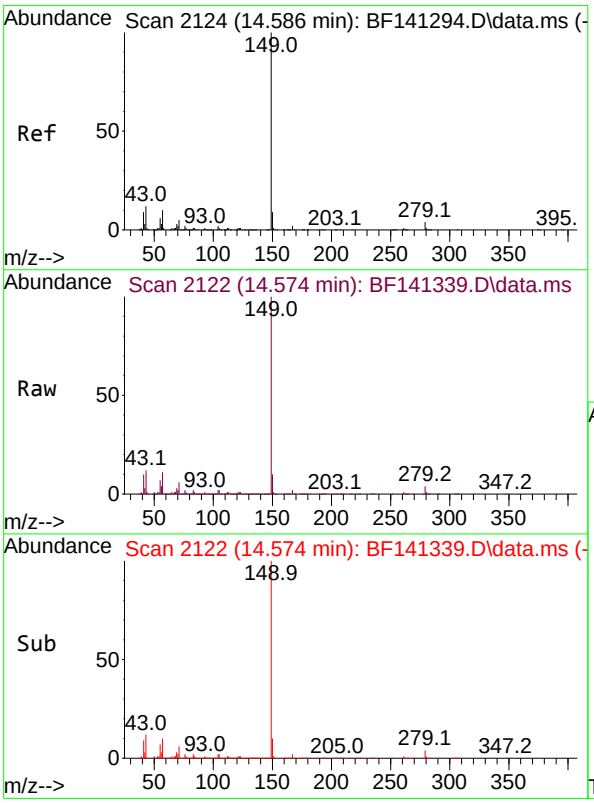
Tgt Ion:149 Resp: 49399

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.8	32.8
279	3.6	3.3	4.9

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

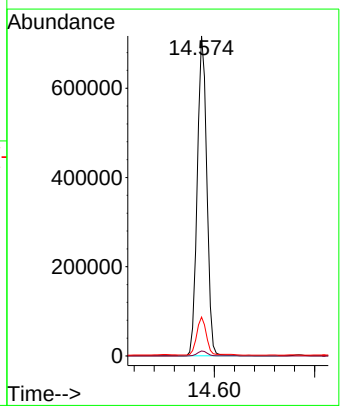


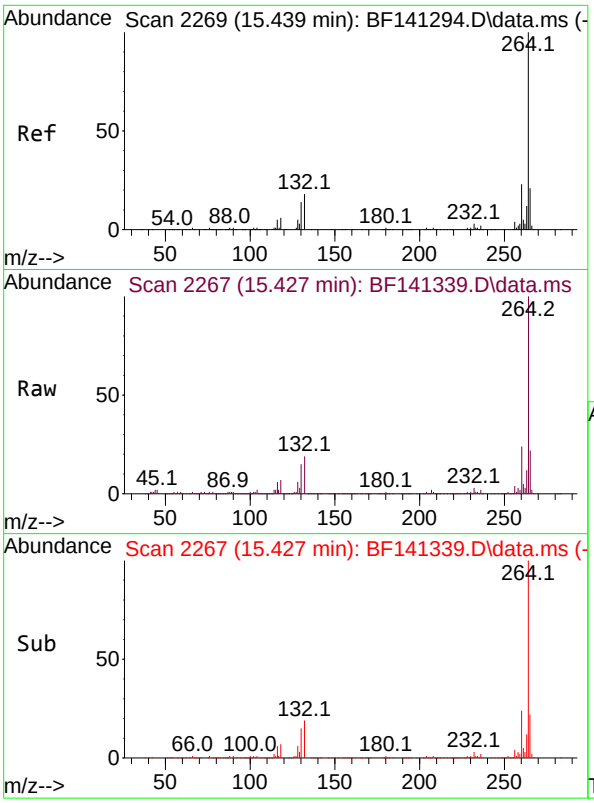


#85
Di-n-octyl phthalate
Concen: 49.652 ng
RT: 14.574 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:149 Resp: 941792

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.8	14.8

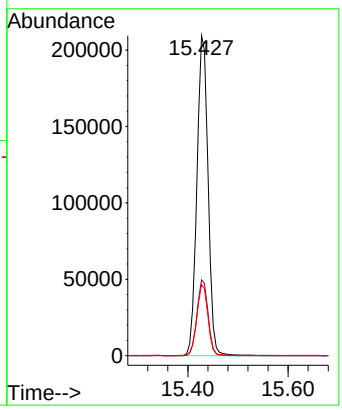




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:264 Resp: 32353

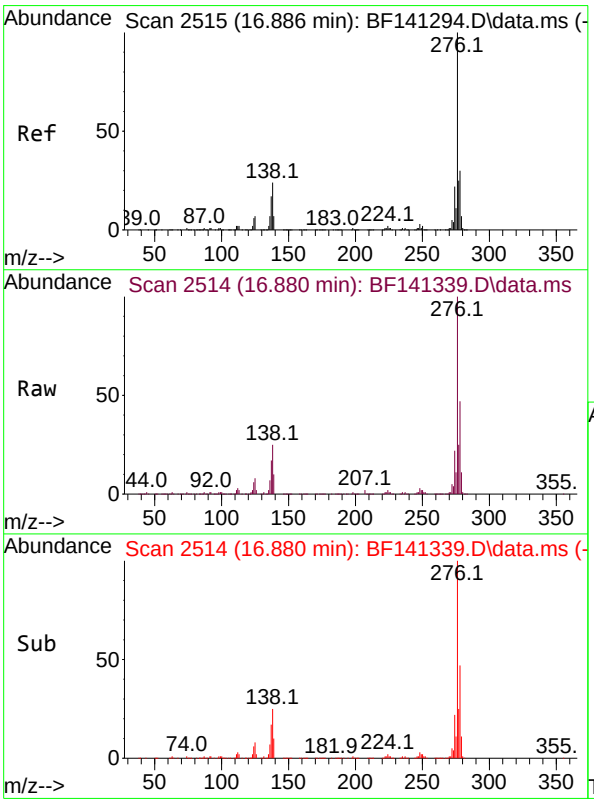
Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.6	27.8
265	22.3	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

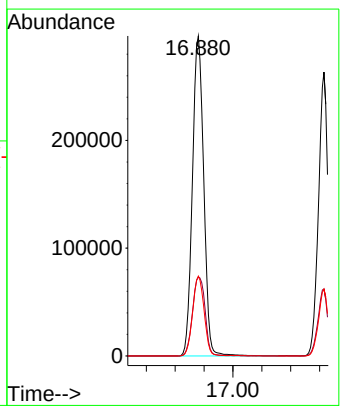
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

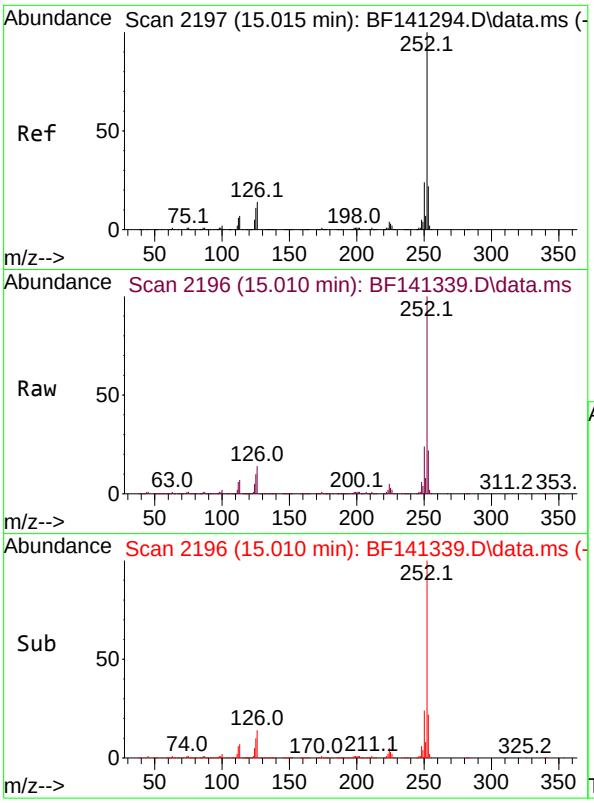


#87
Indeno(1,2,3-cd)pyrene
Concen: 38.671 ng
RT: 16.880 min Scan# 2514
Delta R.T. -0.018 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:276 Resp: 807515

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.7	32.5
277	25.2	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 41.462 ng
RT: 15.010 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

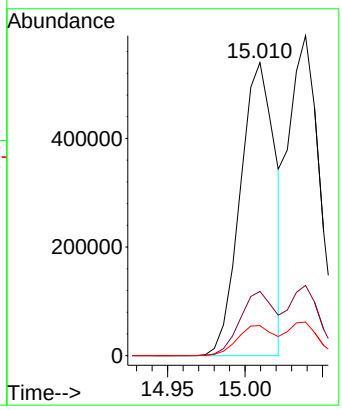
Tgt Ion:252 Resp: 84378

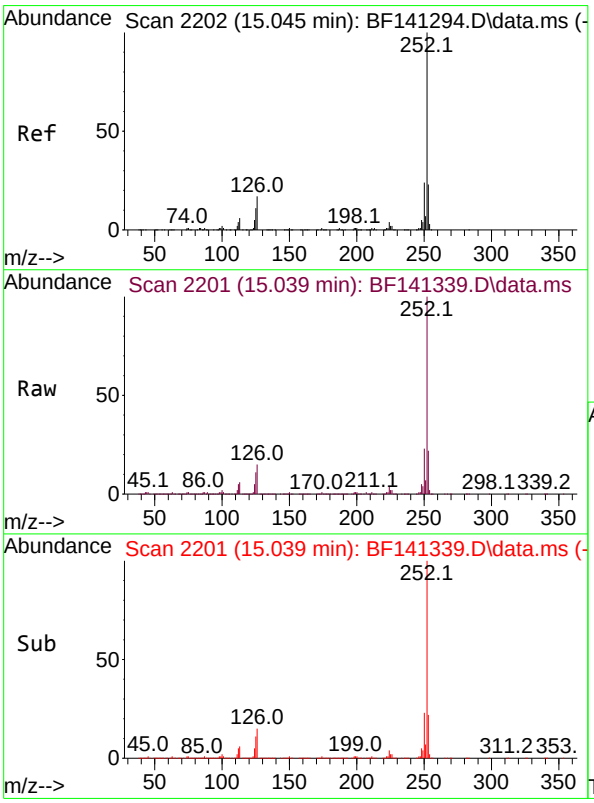
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	10.2	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

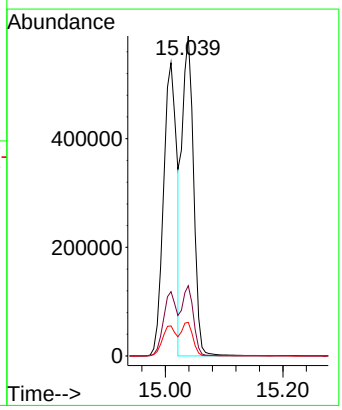


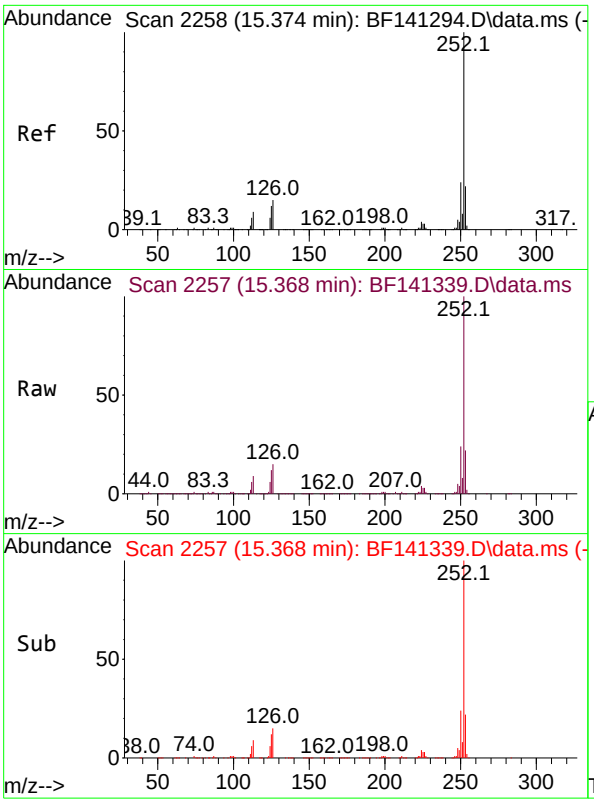


#89
Benzo(k)fluoranthene
Concen: 44.836 ng
RT: 15.039 min Scan# 2201
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:252 Resp: 808333

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	10.5	8.4	12.6

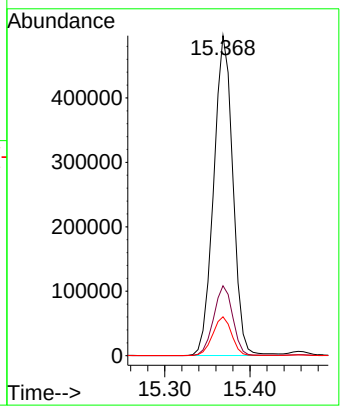




#90
Benzo(a)pyrene
Concen: 45.122 ng
RT: 15.368 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:252 Resp: 77598

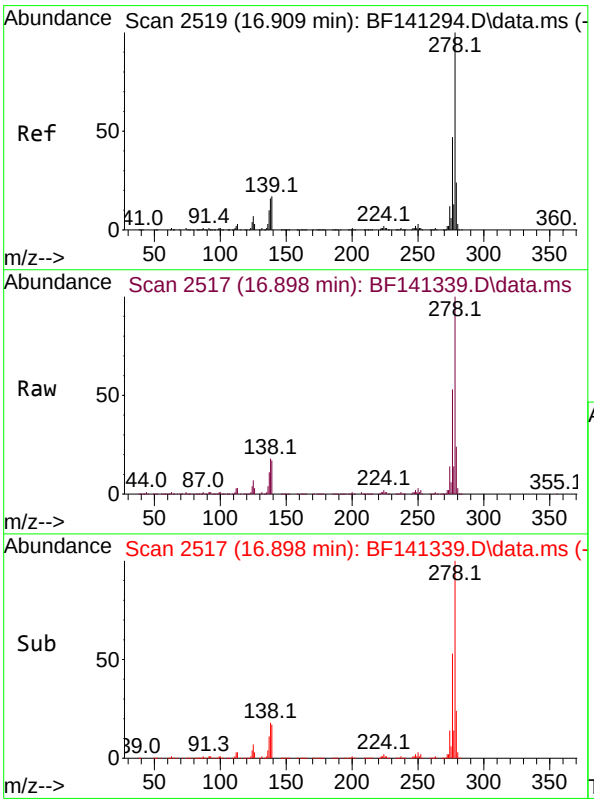
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.2	25.8
125	12.1	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

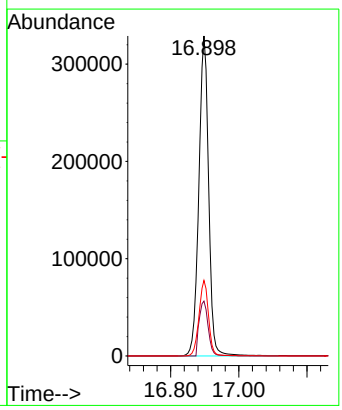
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

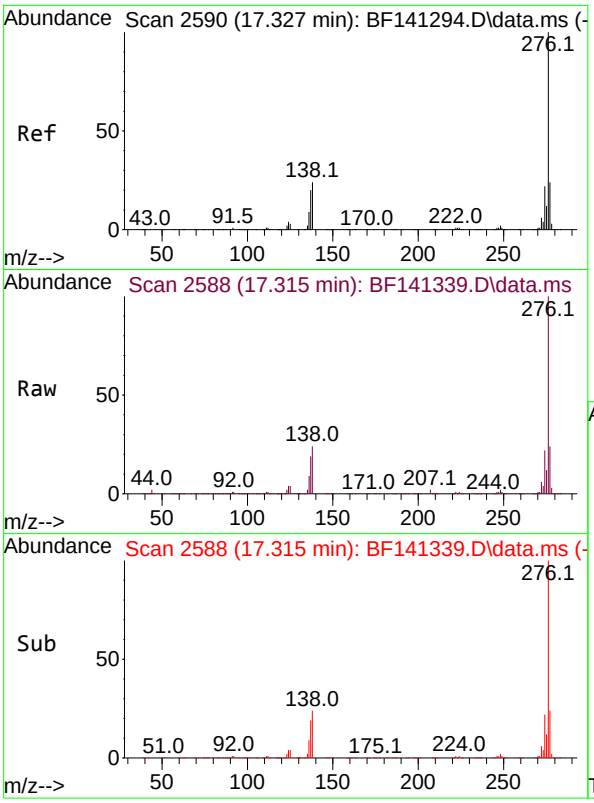


#91
Dibenzo(a,h)anthracene
Concen: 39.232 ng
RT: 16.898 min Scan# 2517
Delta R.T. -0.024 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:278 Resp: 659105

Ion	Ratio	Lower	Upper
278	100		
139	17.2	13.9	20.9
279	23.6	18.8	28.2

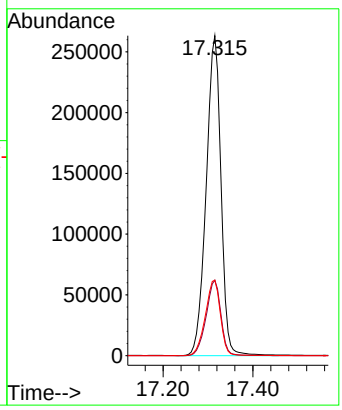




#92
Benzo(g,h,i)perylene
Concen: 34.502 ng
RT: 17.315 min Scan# 2
Delta R.T. -0.030 min
Lab File: BF141339.D
Acq: 31 Jan 2025 18:44

Tgt Ion:276 Resp: 60269

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.2	28.8
138	23.6	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

Raw Data: **BF141340.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	BELL-25-002MSD	SDG No.:	Q1235
Lab Sample ID:	Q1218-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141340.D	1	01/31/25 10:29	01/31/25 19:11	PB166426

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	220		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		8.40	50.0	ug/L
95-48-7	2-Methylphenol	400		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	400		11.5	100	ug/L
67-72-1	Hexachloroethane	380		10.1	50.0	ug/L
98-95-3	Nitrobenzene	460		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	320		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	450		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	440		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	380		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	450		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	940	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		10 - 139	83%	SPK: 150
13127-88-3	Phenol-d6	118		10 - 134	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.4		49 - 133	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.7		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		44 - 137	80%	SPK: 150
1718-51-0	Terphenyl-d14	68.2		48 - 125	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.804			
1146-65-2	Naphthalene-d8	521000	8.086			
15067-26-2	Acenaphthene-d10	271000	9.845			
1517-22-2	Phenanthrene-d10	396000	11.327			
1719-03-5	Chrysene-d12	280000	13.968			
1520-96-3	Perylene-d12	313000	15.421			

Raw Data: **BF141340.D**

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

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	BELL-25-002MSD	SDG No.:	Q1235
Lab Sample ID:	Q1218-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% 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 :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141340.D	1	01/31/25 10:29	01/31/25 19:11	PB166426

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

Sample Results: **BF141340.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141340.D
Acq On : 31 Jan 2025 19:11
Operator : RC/JU
Sample : Q1218-02MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 22:30:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.804	152	142670	20.000	ng		0.00
21) Naphthalene-d8	8.086	136	521314	20.000	ng		0.00
39) Acenaphthene-d10	9.845	164	271292	20.000	ng		0.00
64) Phenanthrene-d10	11.327	188	395783	20.000	ng		0.00
76) Chrysene-d12	13.968	240	279691	20.000	ng		0.00
86) Perylene-d12	15.421	264	312761	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.434	112	1150056	123.752	ng		0.02
7) Phenol-d6	6.445	99	1390165	117.589	ng		0.00
23) Nitrobenzene-d5	7.369	82	884339	89.426	ng		0.00
42) 2,4,6-Tribromophenol	10.639	330	297928	119.788	ng		0.00
45) 2-Fluorobiphenyl	9.163	172	1509903	85.665	ng		0.00
79) Terphenyl-d14	12.910	244	1237686	68.245	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	153231m	37.491	ng		
3) Pyridine	3.451	79	219631	22.303	ng		100
4) n-Nitrosodimethylamine	3.363	42	217752	38.708	ng		98
6) Aniline	6.475	93	182356	18.222	ng	#	30
8) 2-Chlorophenol	6.592	128	416608	41.825	ng		97
9) Benzaldehyde	6.351	77	159468	23.287	ng		98
10) Phenol	6.463	94	482481	38.500	ng		91
11) bis(2-Chloroethyl)ether	6.539	93	414301	43.116	ng		97
12) 1,3-Dichlorobenzene	6.739	146	394998	35.965	ng		100
13) 1,4-Dichlorobenzene	6.822	146	401367	36.378	ng		99
14) 1,2-Dichlorobenzene	6.969	146	375771	36.372	ng		99
15) Benzyl Alcohol	6.957	79	350399	43.371	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.075	45	665073	39.803	ng		70
17) 2-Methylphenol	7.063	107	325000	40.146	ng		96
18) Hexachloroethane	7.316	117	155805	38.279	ng		96
19) n-Nitroso-di-n-propyla...	7.222	70	282862	40.266	ng		97
20) 3+4-Methylphenols	7.216	107	397542	39.995	ng	#	89
22) Acetophenone	7.210	105	593012	47.856	ng	#	97
24) Nitrobenzene	7.386	77	469271	45.791	ng		99
25) Isophorone	7.628	82	693973	40.597	ng		99
26) 2-Nitrophenol	7.698	139	181160	37.483	ng		93
27) 2,4-Dimethylphenol	7.745	122	275977m	44.861	ng		
28) bis(2-Chloroethoxy)met...	7.833	93	354422	32.505	ng		98
29) 2,4-Dichlorophenol	7.945	162	216861	28.795	ng		94
30) 1,2,4-Trichlorobenzene	8.022	180	334708	38.916	ng		99
31) Naphthalene	8.104	128	1055072	38.311	ng		100
32) Benzoic acid	8.439	122	23221760m	4106.266	ng		
33) 4-Chloroaniline	8.175	127	57726	6.181	ng	#	14
34) Hexachlorobutadiene	8.222	225	163478	32.412	ng		99
35) Caprolactam	8.728	113	100725	40.952	ng		99
36) 4-Chloro-3-methylphenol	8.651	107	349171	43.224	ng		97
37) 2-Methylnaphthalene	8.798	142	714422	40.815	ng		99
38) 1-Methylnaphthalene	8.898	142	697402	40.561	ng		100
40) 1,2,4,5-Tetrachloroben...	8.963	216	368448	47.739	ng		98
41) Hexachlorocyclopentadiene	8.951	237	423151	185.647	ng		99
43) 2,4,6-Trichlorophenol	9.086	196	227525	45.039	ng		99

Sample Results: **BF141340.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141340.D
Acq On : 31 Jan 2025 19:11
Operator : RC/JU
Sample : Q1218-02MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 22:30:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.128	196	240917	43.818	ng		98
46) 1,1'-Biphenyl	9.263	154	1007225	47.606	ng		99
47) 2-Chloronaphthalene	9.286	162	680086	41.240	ng		99
48) 2-Nitroaniline	9.392	65	186519	35.958	ng		99
49) Acenaphthylene	9.704	152	916431	39.699	ng		100
50) Dimethylphthalate	9.580	163	808935	44.149	ng		99
51) 2,6-Dinitrotoluene	9.639	165	167958	39.479	ng		92
52) Acenaphthene	9.875	154	753252m	45.675	ng		
53) 3-Nitroaniline	9.816	138	58071	13.927	ng		98
54) 2,4-Dinitrophenol	9.922	184	211534	106.961	ng		98
55) Dibenzofuran	10.051	168	892050	40.410	ng		99
56) 4-Nitrophenol	9.992	139	222214	72.869	ng		97
57) 2,4-Dinitrotoluene	10.039	165	211301	38.361	ng	#	88
58) Fluorene	10.392	166	696694	40.687	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.180	232	189214	43.744	ng		98
60) Diethylphthalate	10.275	149	718228	40.427	ng		100
61) 4-Chlorophenyl-phenyle...	10.386	204	341406	40.818	ng		99
62) 4-Nitroaniline	10.410	138	108113	26.373	ng		99
63) Azobenzene	10.545	77	725174	40.778	ng		99
65) 4,6-Dinitro-2-methylph...	10.445	198	126669	54.108	ng		98
66) n-Nitrosodiphenylamine	10.504	169	600618	46.919	ng		100
67) 4-Bromophenyl-phenylether	10.874	248	193762	43.730	ng		99
68) Hexachlorobenzene	10.939	284	212929	45.303	ng		99
69) Atrazine	11.039	200	137336	32.088	ng		98
70) Pentachlorophenol	11.139	266	259262	94.198	ng		99
71) Phenanthrene	11.351	178	929973	43.712	ng		100
72) Anthracene	11.404	178	936429	44.922	ng		99
73) Carbazole	11.557	167	722300	39.076	ng		100
74) Di-n-butylphthalate	11.892	149	962080	42.948	ng		100
75) Fluoranthene	12.539	202	837807	39.883	ng		100
78) Pyrene	12.768	202	844011	31.437	ng		99
80) Butylbenzylphthalate	13.392	149	356371	37.995	ng		98
81) Benzo(a)anthracene	13.957	228	756912	39.218	ng		99
82) 3,3'-Dichlorobenzidine	13.921	252	92382	15.050	ng		99
83) Chrysene	13.992	228	744577	42.095	ng		100
84) Bis(2-ethylhexyl)phtha...	13.951	149	484536	40.723	ng		99
85) Di-n-octyl phthalate	14.568	149	908345	49.152	ng		99
87) Indeno(1,2,3-cd)pyrene	16.874	276	772651	38.276	ng		100
88) Benzo(b)fluoranthene	15.004	252	920585	46.793	ng		99
89) Benzo(k)fluoranthene	15.033	252	694577	39.853	ng		100
90) Benzo(a)pyrene	15.362	252	753917	45.348	ng		99
91) Dibenzo(a,h)anthracene	16.892	278	627391	38.631	ng		100
92) Benzo(g,h,i)perylene	17.309	276	573319	33.950	ng		99

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

Sample Results: **BF141340.D**

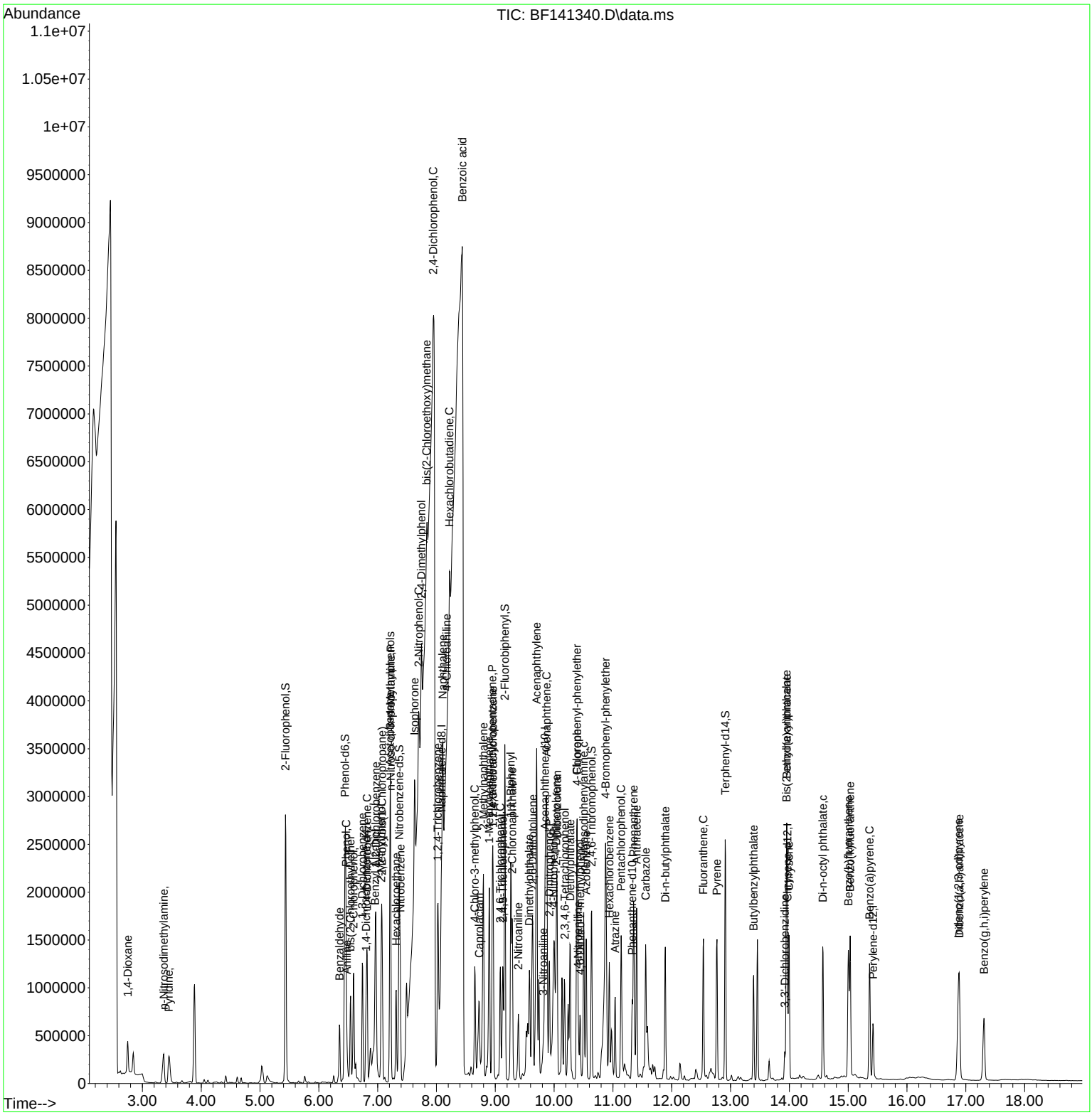
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141340.D
Acq On : 31 Jan 2025 19:11
Operator : RC/JU
Sample : Q1218-02MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

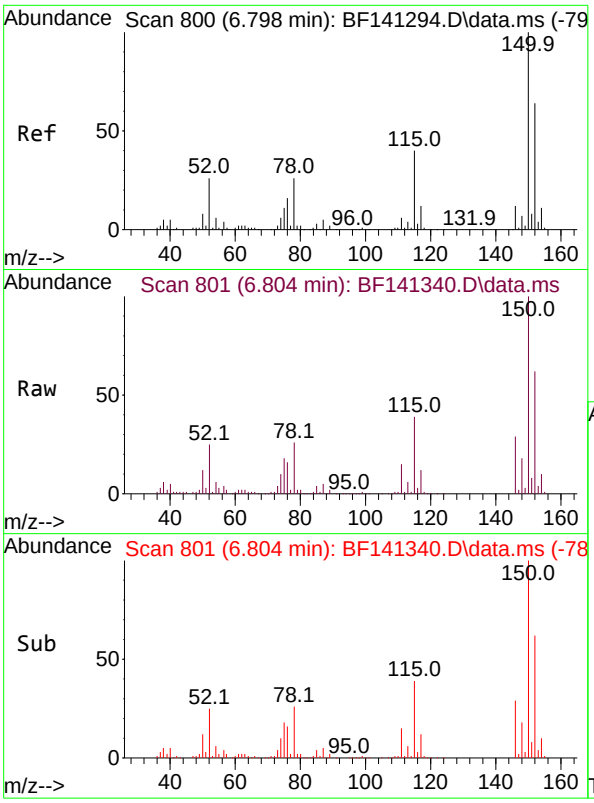
Quant Time: Jan 31 22:30:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

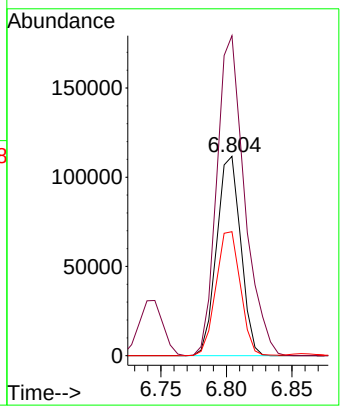




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:152 Resp: 14267

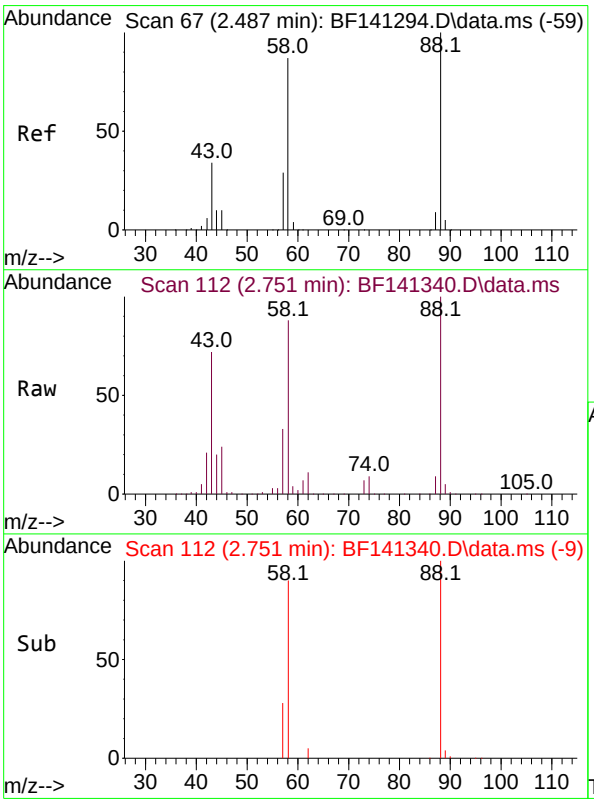
Ion	Ratio	Lower	Upper
152	100		
150	160.6	125.9	188.9
115	62.2	49.7	74.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

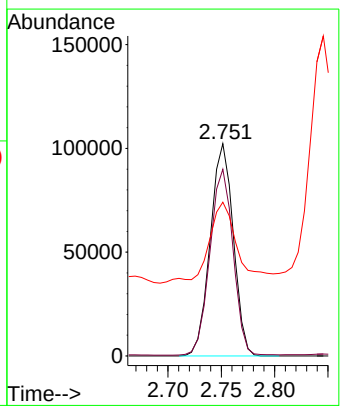
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

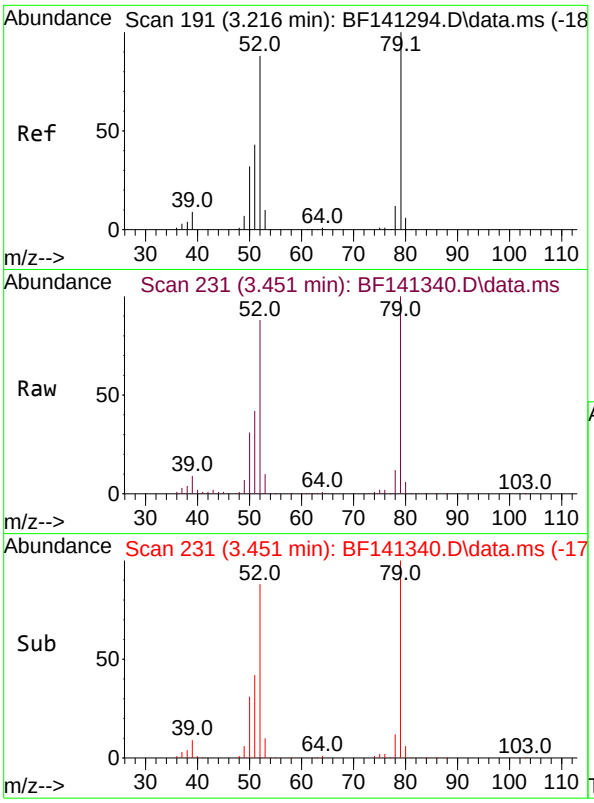


#2
1,4-Dioxane
Concen: 37.491 ng m
RT: 2.751 min Scan# 112
Delta R.T. 0.259 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 88 Resp: 153231

Ion	Ratio	Lower	Upper
88	100		
58	128.1	70.2	105.4#
43	0.0	27.6	41.4#

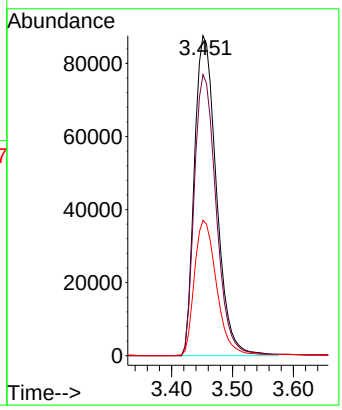




#3
Pyridine
Concen: 22.303 ng
RT: 3.451 min Scan# 2
Delta R.T. 0.223 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 79 Resp: 21963

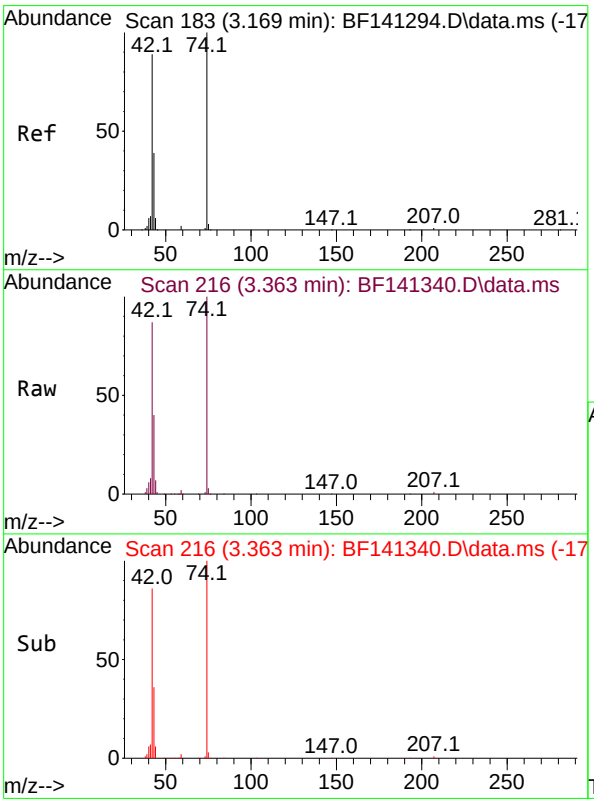
Ion	Ratio	Lower	Upper
79	100		
52	87.9	70.3	105.5
51	42.3	34.3	51.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

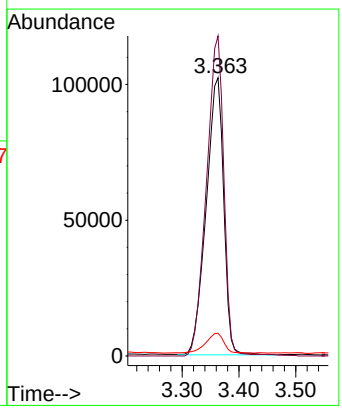
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

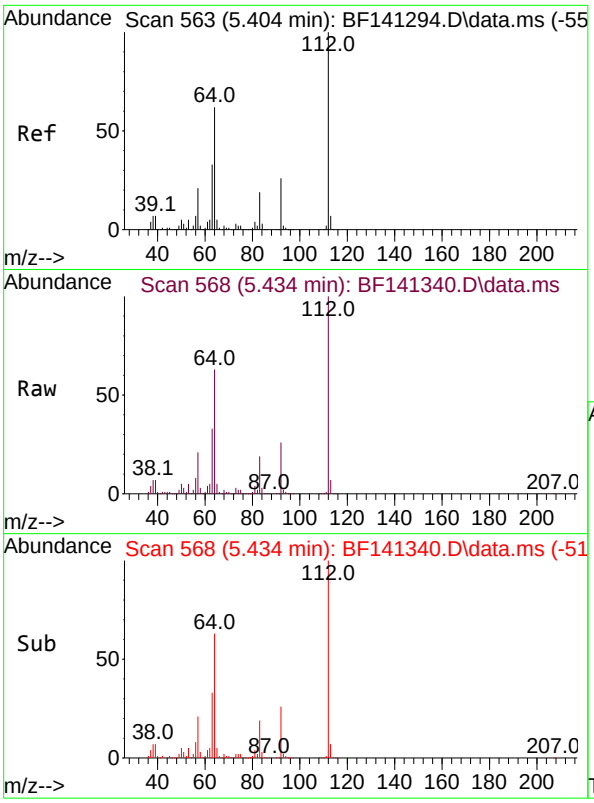


#4
n-Nitrosodimethylamine
Concen: 38.708 ng
RT: 3.363 min Scan# 216
Delta R.T. 0.164 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 42 Resp: 217752

Ion	Ratio	Lower	Upper
42	100		
74	115.0	90.3	135.5
44	8.1	5.7	8.5

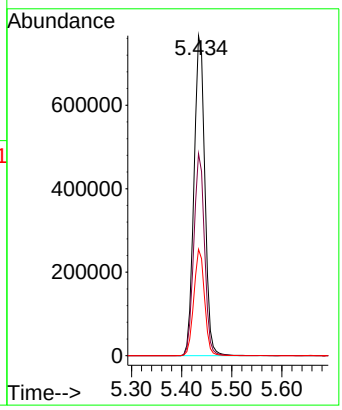




#5
2-Fluorophenol
Concen: 123.752 ng
RT: 5.434 min Scan# 5
Delta R.T. 0.023 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:112 Resp: 115005

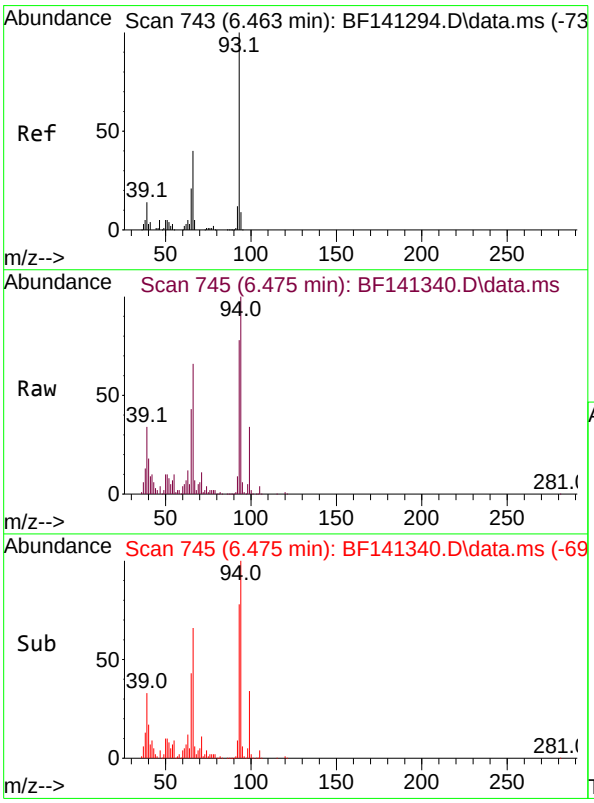
Ion	Ratio	Lower	Upper
112	100		
64	63.1	49.8	74.8
63	33.2	26.1	39.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

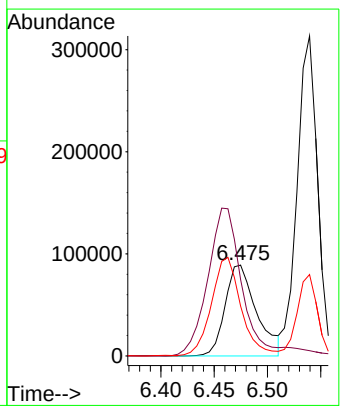
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

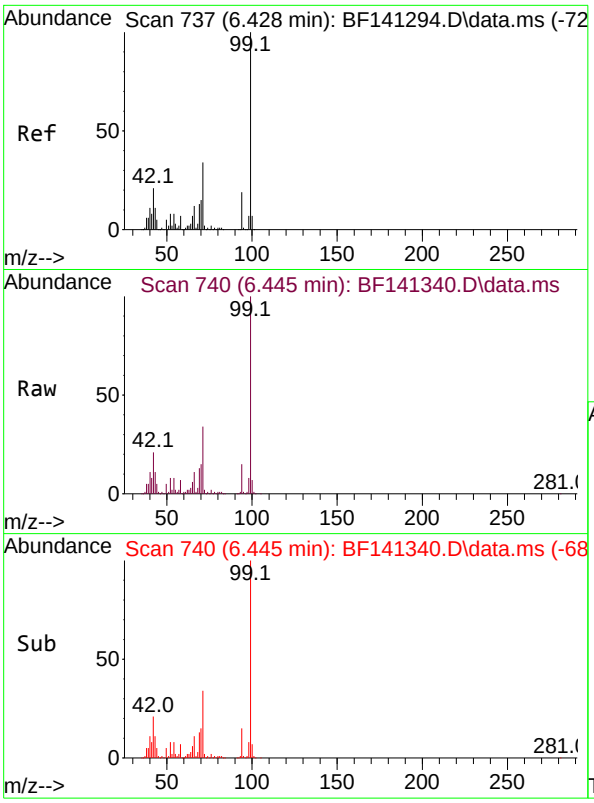


#6
Aniline
Concen: 18.222 ng
RT: 6.475 min Scan# 745
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 93 Resp: 182356

Ion	Ratio	Lower	Upper
93	100		
66	84.1	32.5	48.7#
65	54.9	17.0	25.6#

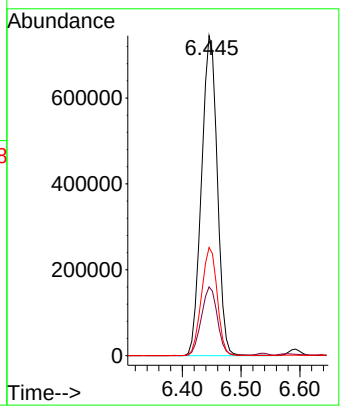




#7
Phenol-d6
Concen: 117.589 ng
RT: 6.445 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 99 Resp: 139016

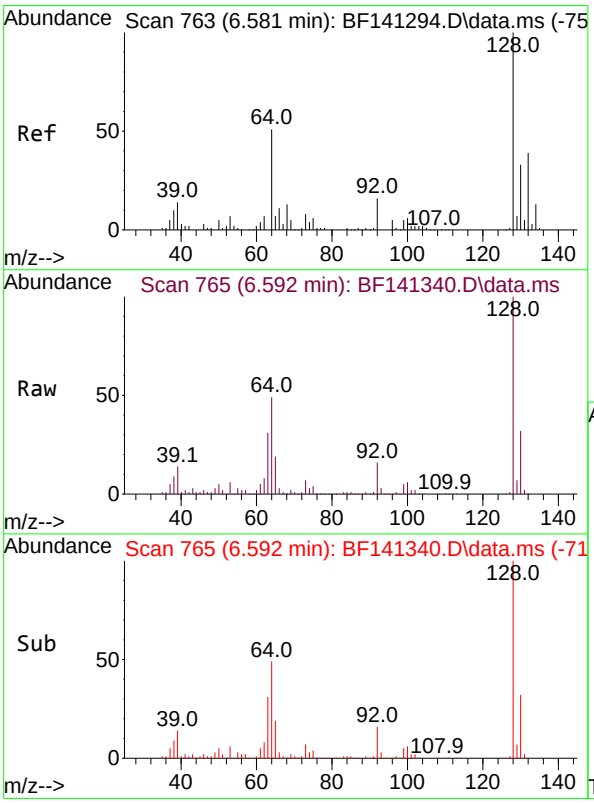
Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.1	25.7
71	33.8	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

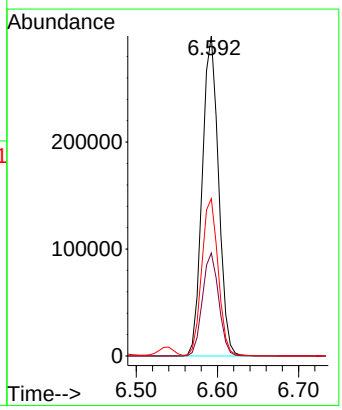
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

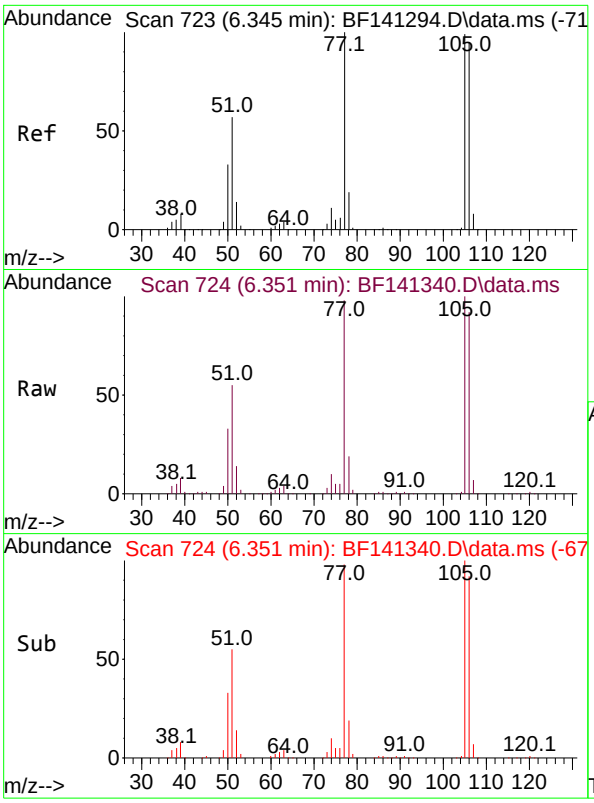


#8
2-Chlorophenol
Concen: 41.825 ng
RT: 6.592 min Scan# 765
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:128 Resp: 416608

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.5	52.5
64	49.2	32.9	72.9

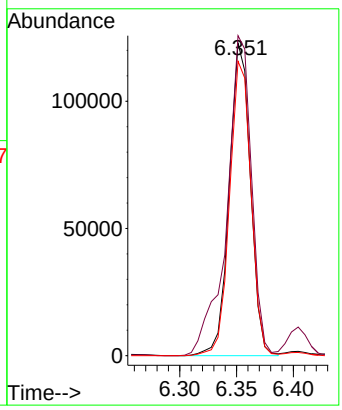




#9
Benzaldehyde
Concen: 23.287 ng
RT: 6.351 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 77 Resp: 15946

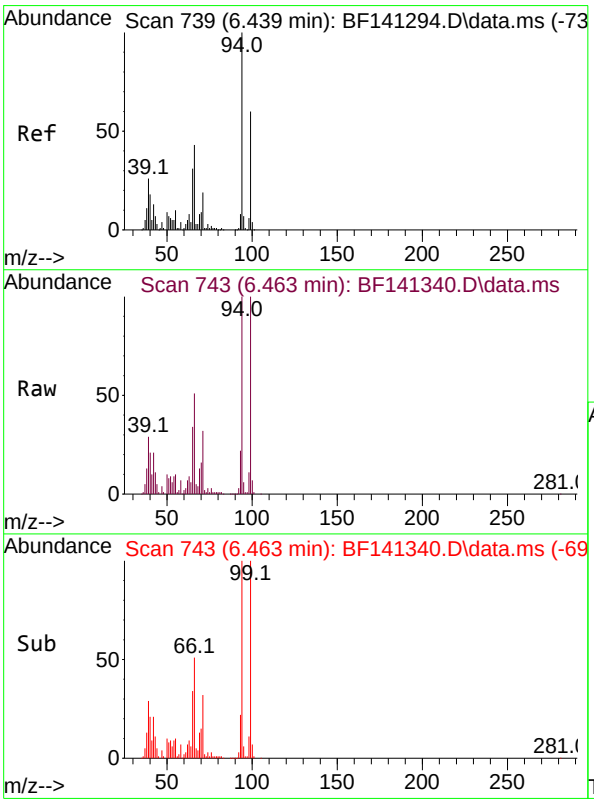
Ion	Ratio	Lower	Upper
77	100		
105	102.4	79.4	119.4
106	94.3	74.6	114.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

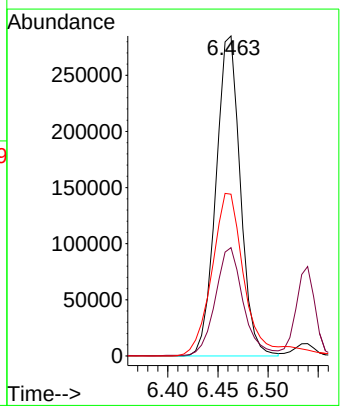
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

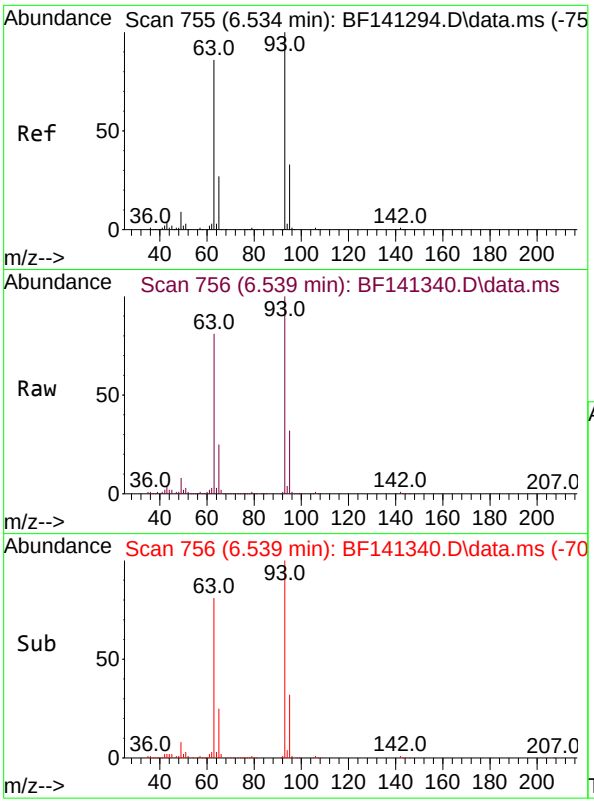


#10
Phenol
Concen: 38.500 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 94 Resp: 482481

Ion	Ratio	Lower	Upper
94	100		
65	33.9	10.8	50.8
66	50.6	23.3	63.3

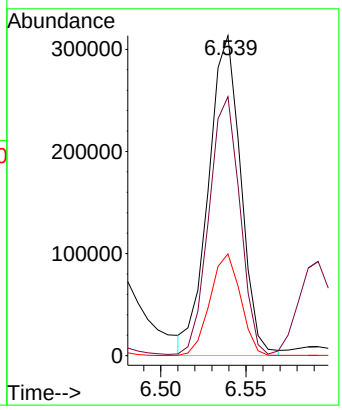




#11
bis(2-Chloroethyl)ether
Concen: 43.116 ng
RT: 6.539 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 93 Resp: 41430

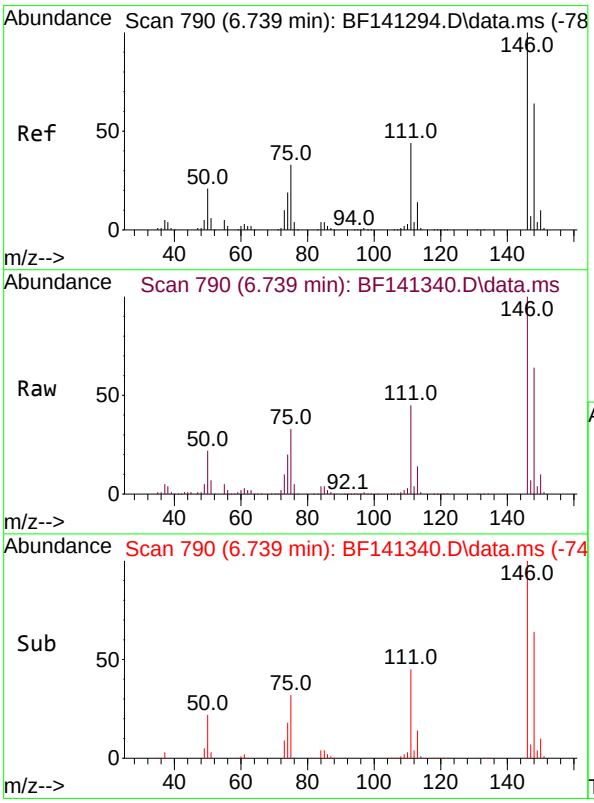
Ion	Ratio	Lower	Upper
93	100		
63	81.0	65.0	105.0
95	31.8	12.4	52.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

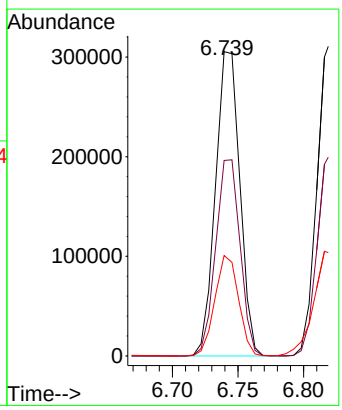
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

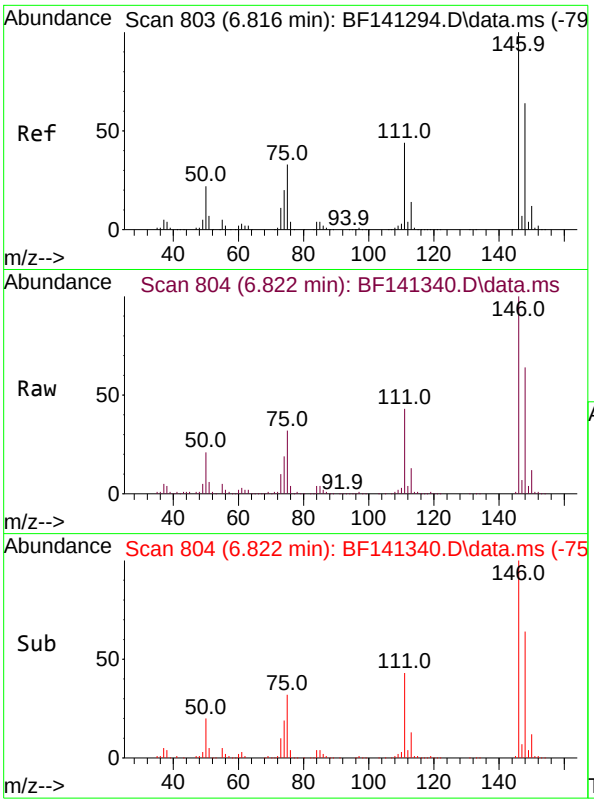


#12
1,3-Dichlorobenzene
Concen: 35.965 ng
RT: 6.739 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:146 Resp: 394998

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
75	33.0	26.2	39.4

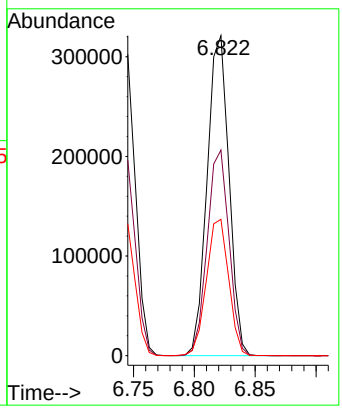




#13
1,4-Dichlorobenzene
Concen: 36.378 ng
RT: 6.822 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:146 Resp: 40136

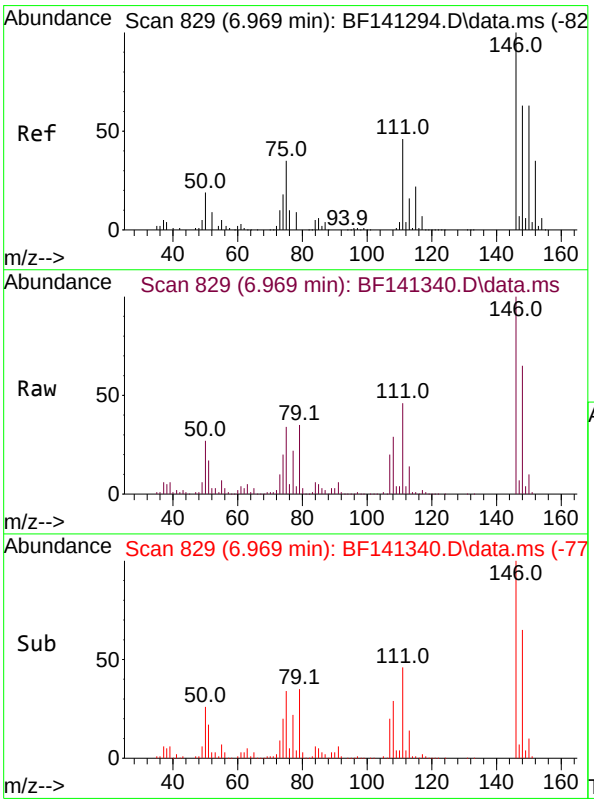
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.2	76.8
111	42.6	35.0	52.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

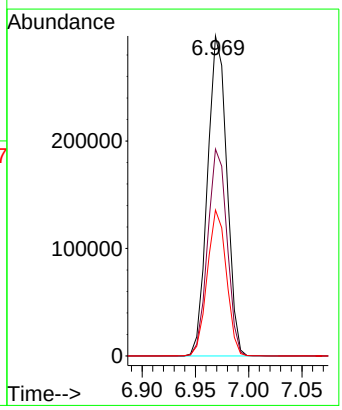
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

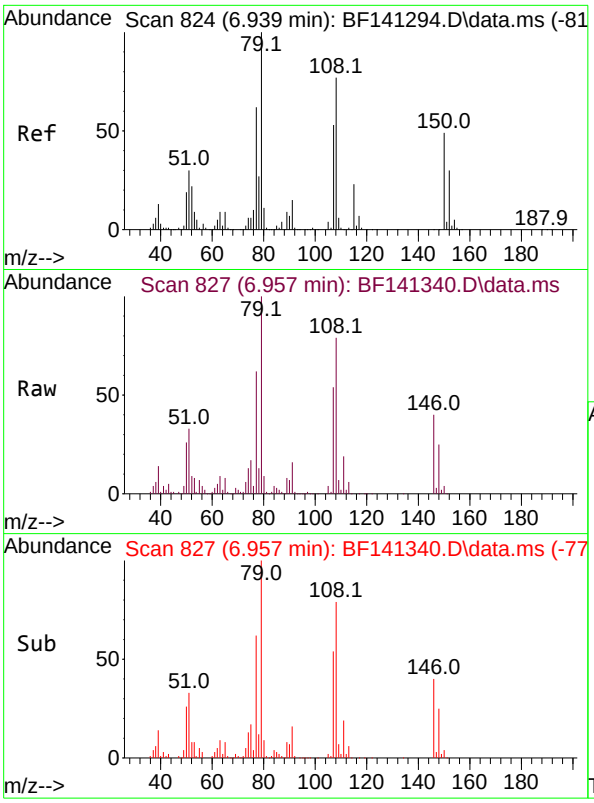


#14
1,2-Dichlorobenzene
Concen: 36.372 ng
RT: 6.969 min Scan# 829
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:146 Resp: 375771

Ion	Ratio	Lower	Upper
146	100		
148	64.7	50.5	75.7
111	45.6	36.6	55.0





#15
Benzyl Alcohol
Concen: 43.371 ng
RT: 6.957 min Scan# 8
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

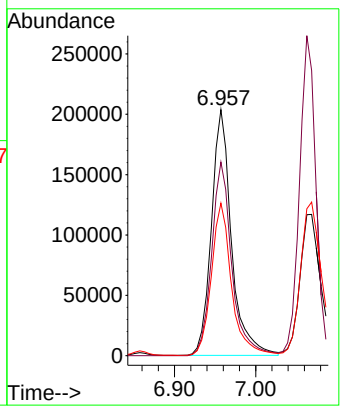
Tgt Ion: 79 Resp: 35039

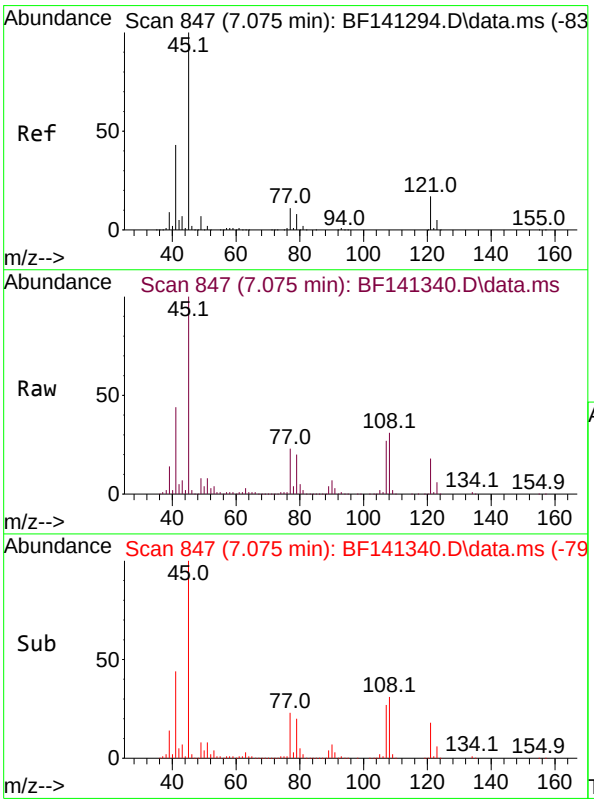
Ion	Ratio	Lower	Upper
79	100		
108	78.6	61.4	92.0
77	61.9	49.9	74.9

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

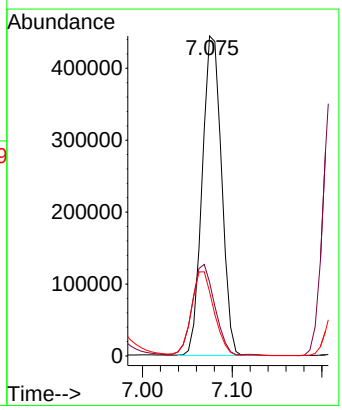


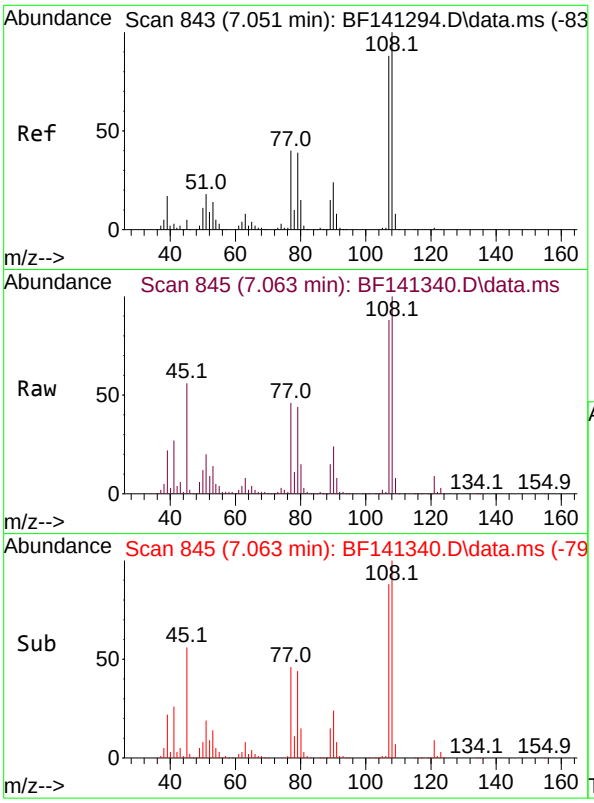


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.803 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 45 Resp: 665073

Ion	Ratio	Lower	Upper
45	100		
77	23.0	0.0	31.8
79	20.1	0.0	29.1

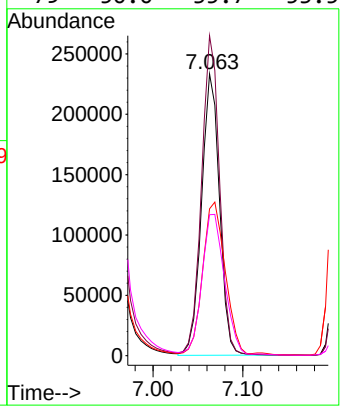




#17
2-Methylphenol
Concen: 40.146 ng
RT: 7.063 min Scan# 84
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:107 Resp: 32500

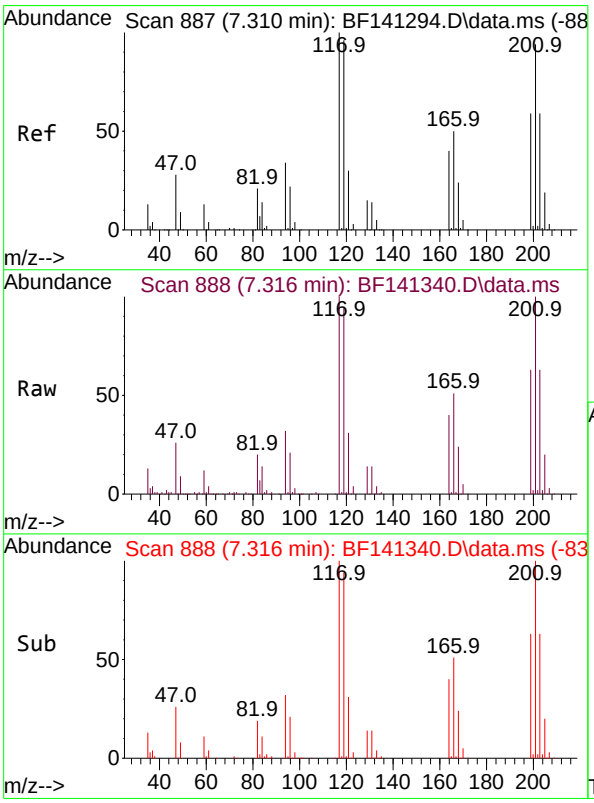
Ion	Ratio	Lower	Upper
107	100		
108	113.6	90.8	136.2
77	52.2	36.2	54.4
79	50.0	35.7	53.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

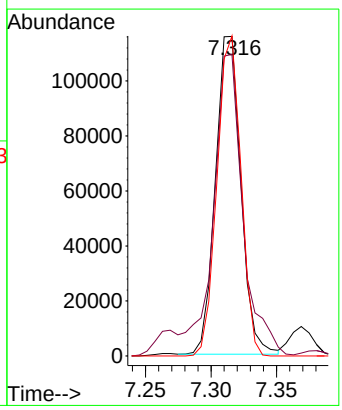
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

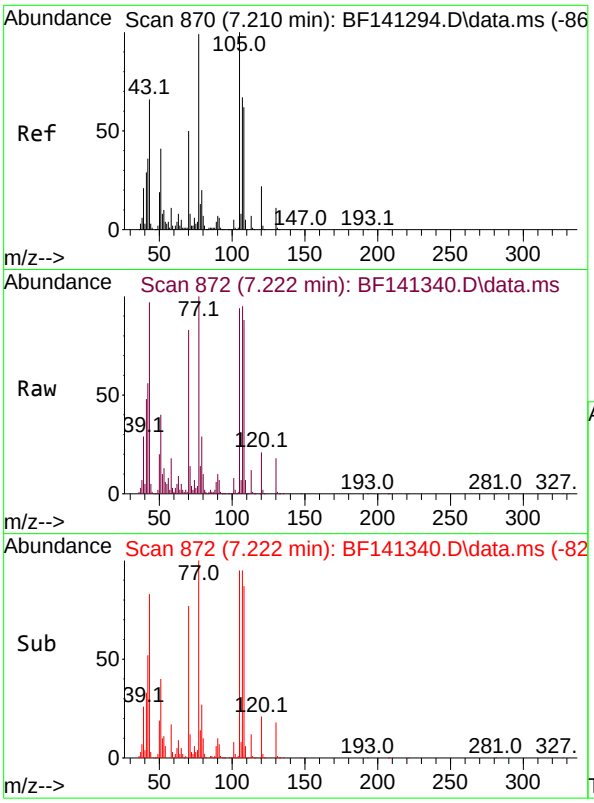


#18
Hexachloroethane
Concen: 38.279 ng
RT: 7.316 min Scan# 888
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:117 Resp: 155805

Ion	Ratio	Lower	Upper
117	100		
119	94.4	76.6	114.8
201	100.1	74.8	112.2

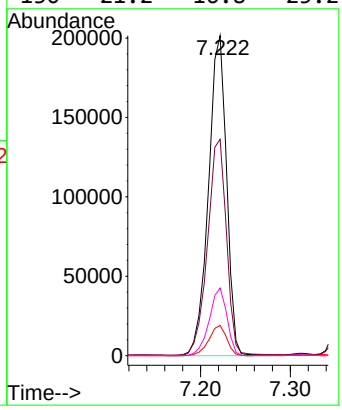




#19
n-Nitroso-di-n-propylamine
Concen: 40.266 ng
RT: 7.222 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 70 Resp: 28286

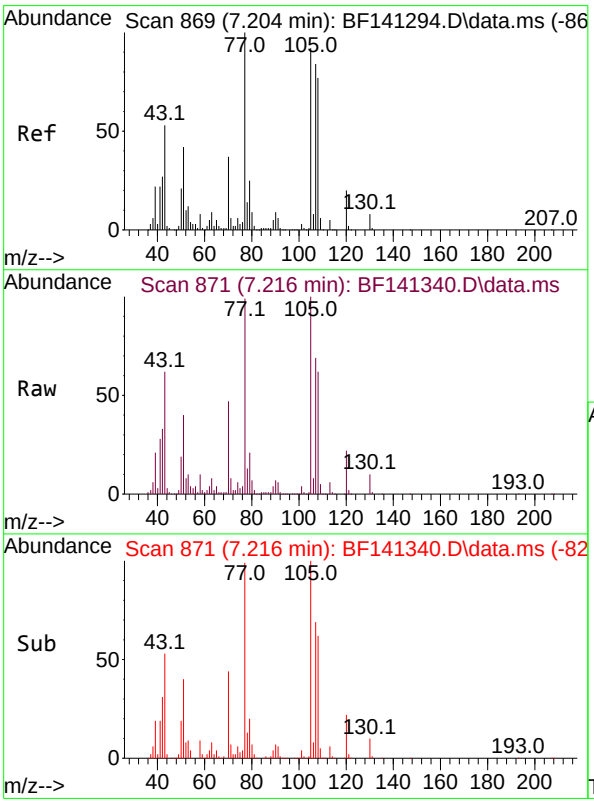
Ion	Ratio	Lower	Upper
70	100		
42	67.6	56.8	85.2
101	9.4	7.7	11.5
130	21.2	16.8	25.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

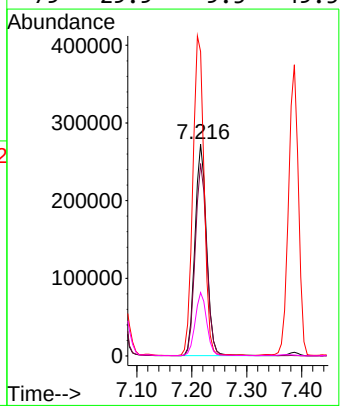
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

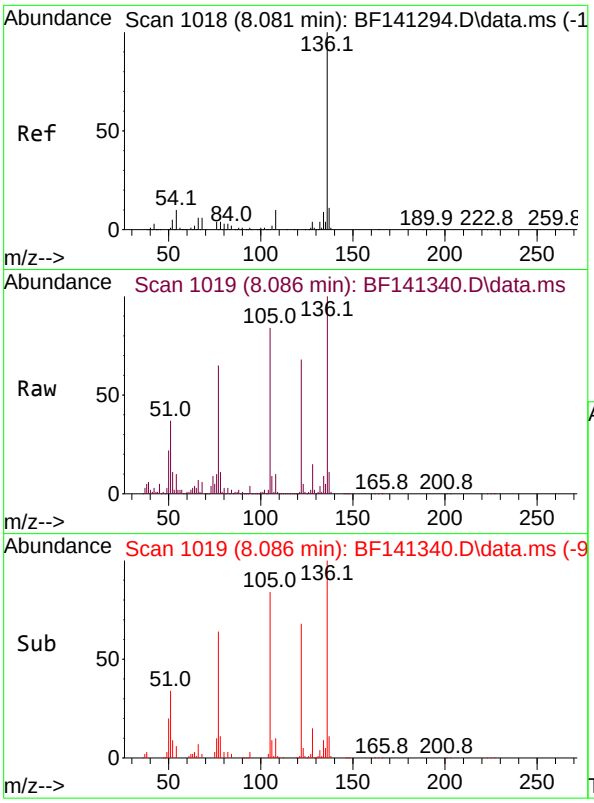


#20
3+4-Methylphenols
Concen: 39.995 ng
RT: 7.216 min Scan# 871
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:107 Resp: 397542

Ion	Ratio	Lower	Upper
107	100		
108	90.9	70.9	110.9
77	143.7	98.5	138.5#
79	29.9	9.5	49.5

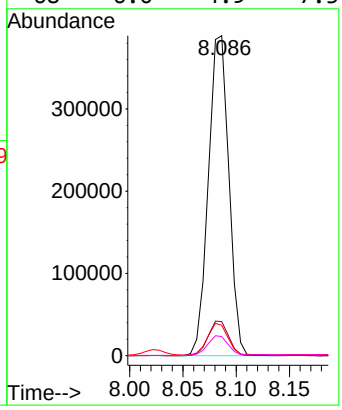




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:136 Resp: 52131

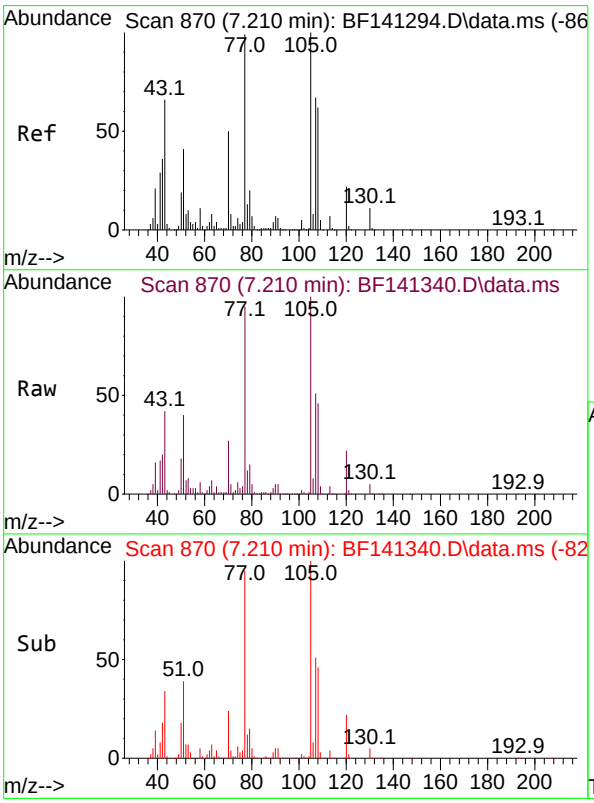
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	9.5	7.8	11.8
68	6.0	4.9	7.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

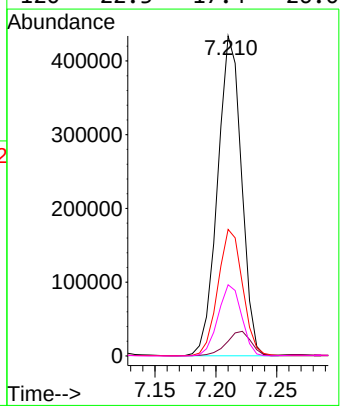
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

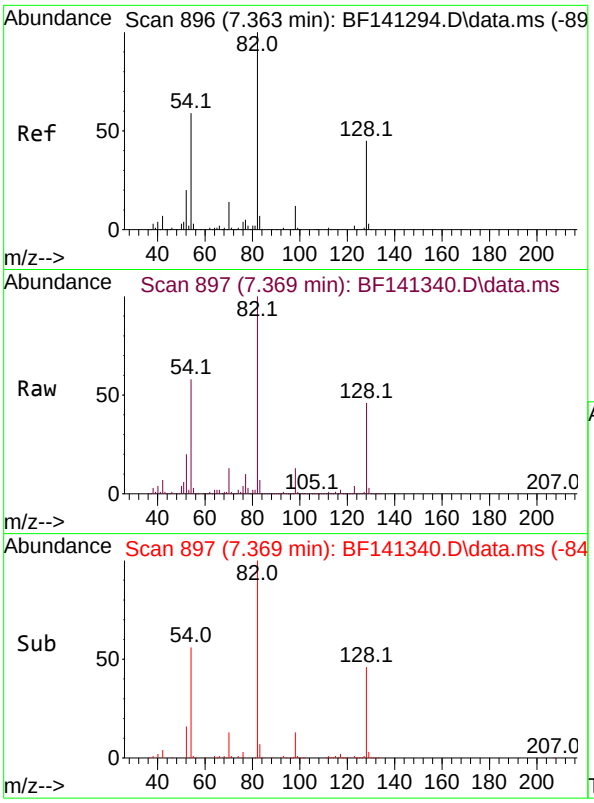


#22
Acetophenone
Concen: 47.856 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:105 Resp: 593012

Ion	Ratio	Lower	Upper
105	100		
71	4.6	6.8	10.2#
51	39.5	32.6	49.0
120	22.3	17.4	26.0





#23
Nitrobenzene-d5
Concen: 89.426 ng
RT: 7.369 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

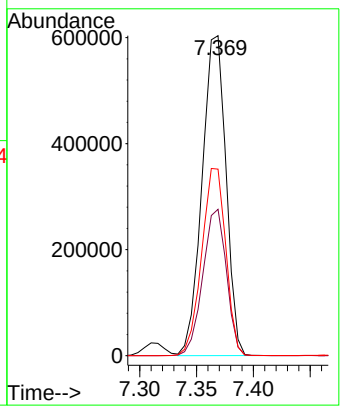
Tgt Ion: 82 Resp: 88433

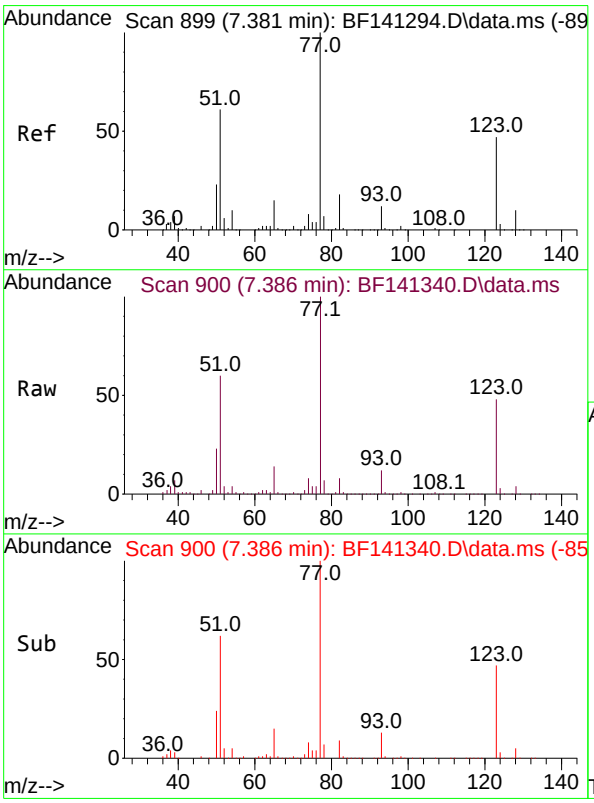
Ion	Ratio	Lower	Upper
82	100		
128	45.7	35.7	53.5
54	58.3	47.1	70.7

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

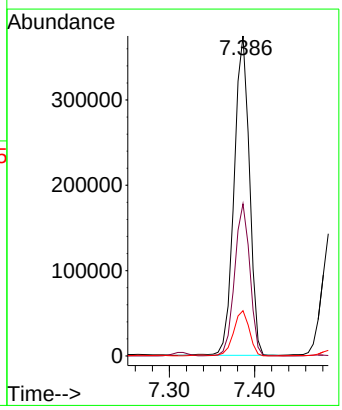


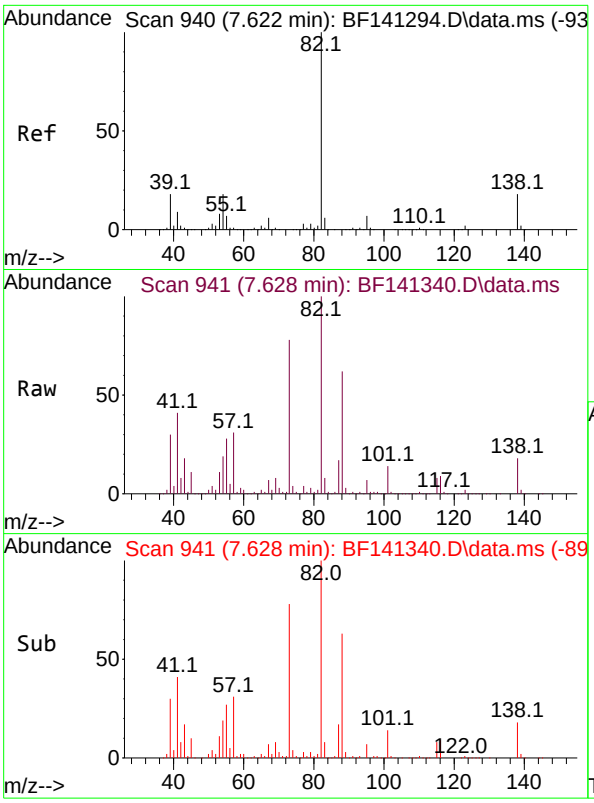


#24
Nitrobenzene
Concen: 45.791 ng
RT: 7.386 min Scan# 900
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 77 Resp: 469271

Ion	Ratio	Lower	Upper
77	100		
123	47.5	37.3	55.9
65	14.2	11.8	17.6





#25
Isophorone
Concen: 40.597 ng
RT: 7.628 min Scan# 94
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

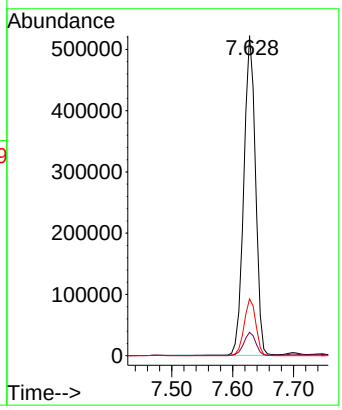
Tgt Ion: 82 Resp: 69397

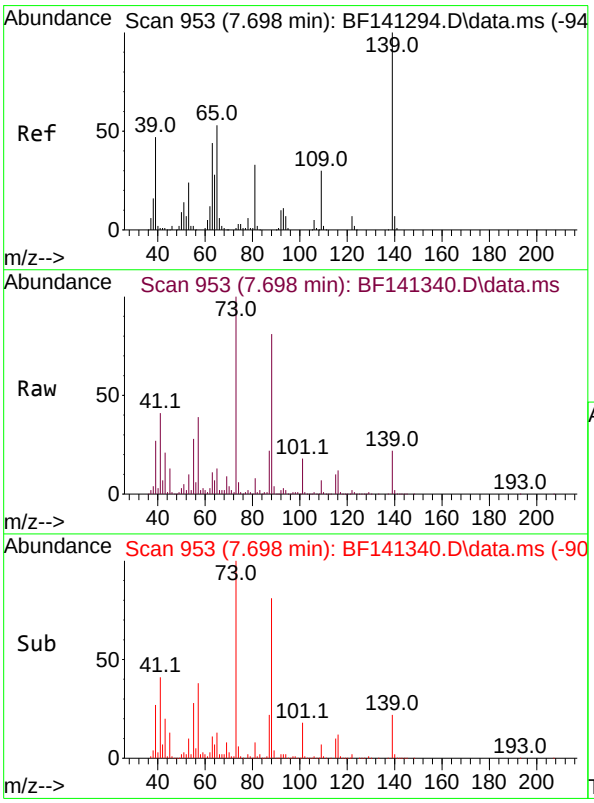
Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.6
138	17.8	14.7	22.1

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

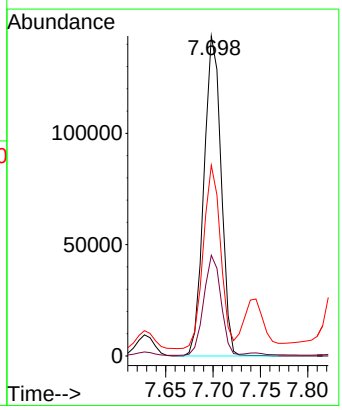


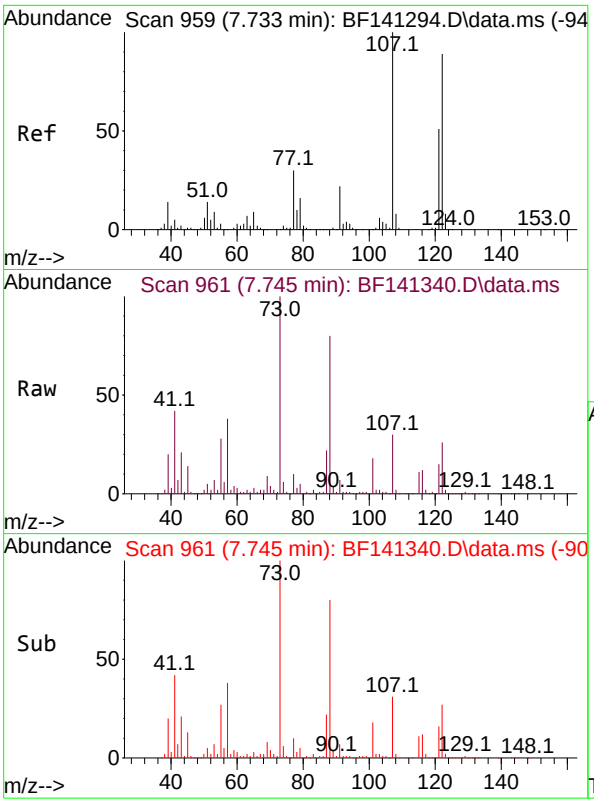


#26
2-Nitrophenol
Concen: 37.483 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:139 Resp: 181160

Ion	Ratio	Lower	Upper
139	100		
109	31.5	23.8	35.6
65	59.6	42.2	63.4

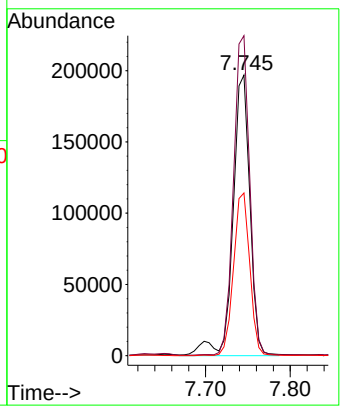




#27
2,4-Dimethylphenol
Concen: 44.861 ng m
RT: 7.745 min Scan# 9
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:122 Resp: 27597

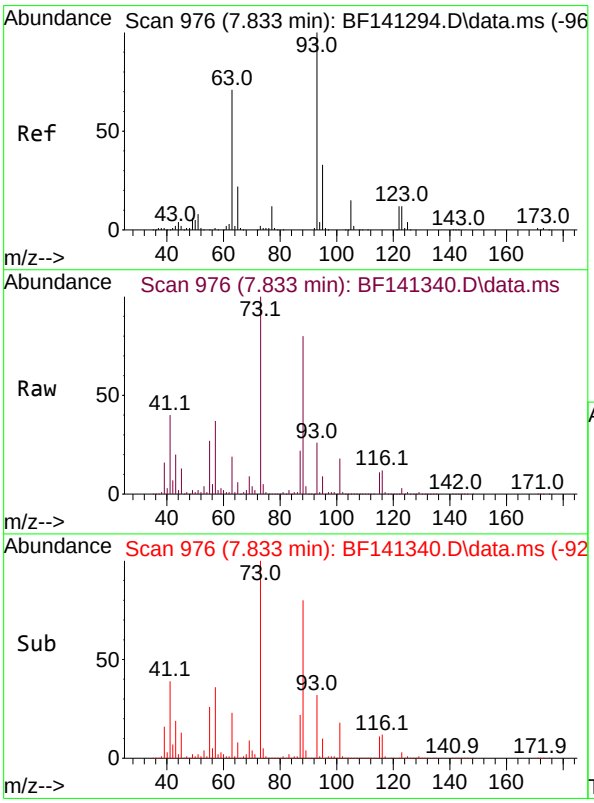
Ion	Ratio	Lower	Upper
122	100		
107	114.0	89.9	134.9
121	58.0	46.1	69.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

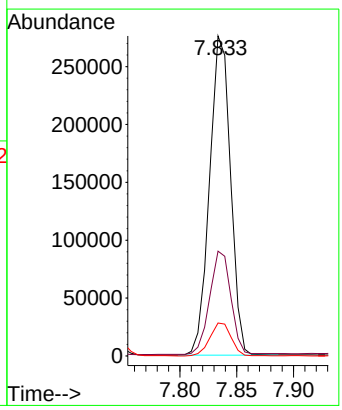
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

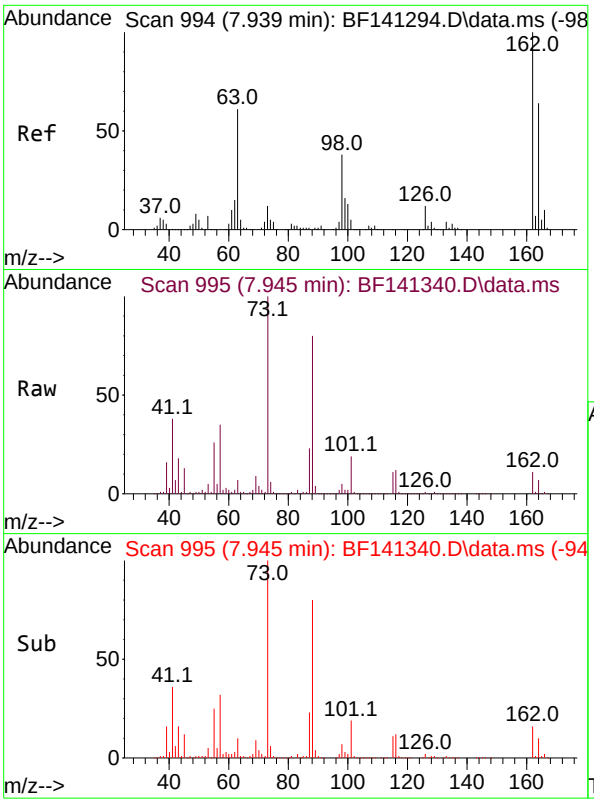


#28
bis(2-Chloroethoxy)methane
Concen: 32.505 ng
RT: 7.833 min Scan# 976
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 93 Resp: 354422

Ion	Ratio	Lower	Upper
93	100		
95	32.7	26.2	39.2
123	10.3	10.2	15.4

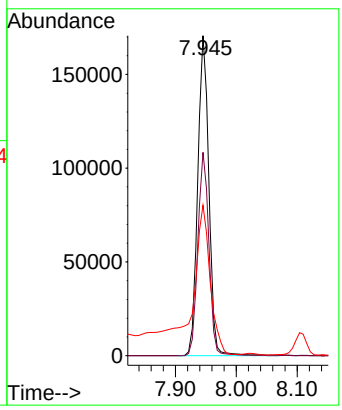




#29
2,4-Dichlorophenol
Concen: 28.795 ng
RT: 7.945 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:162 Resp: 21686

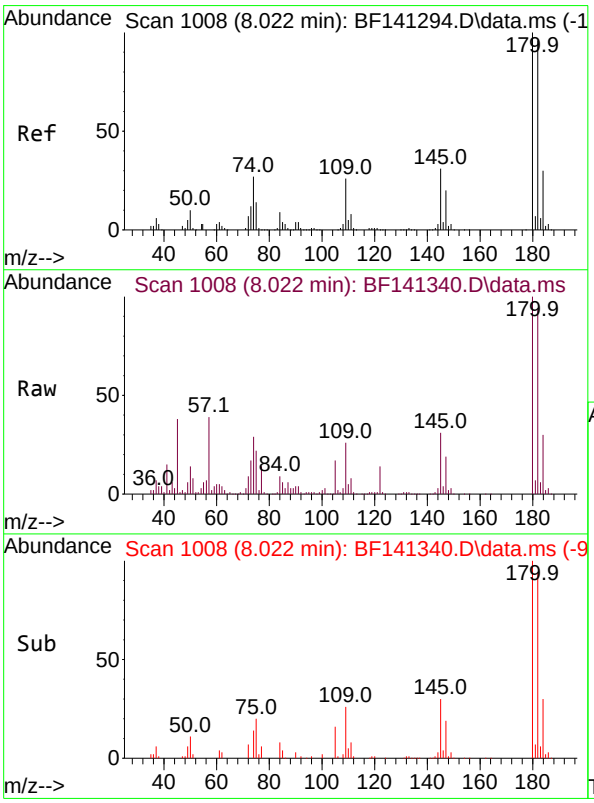
Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.2	84.2
98	47.0	18.2	58.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

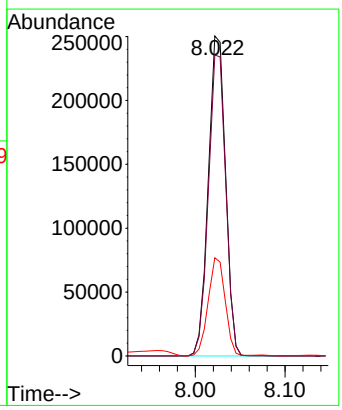
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

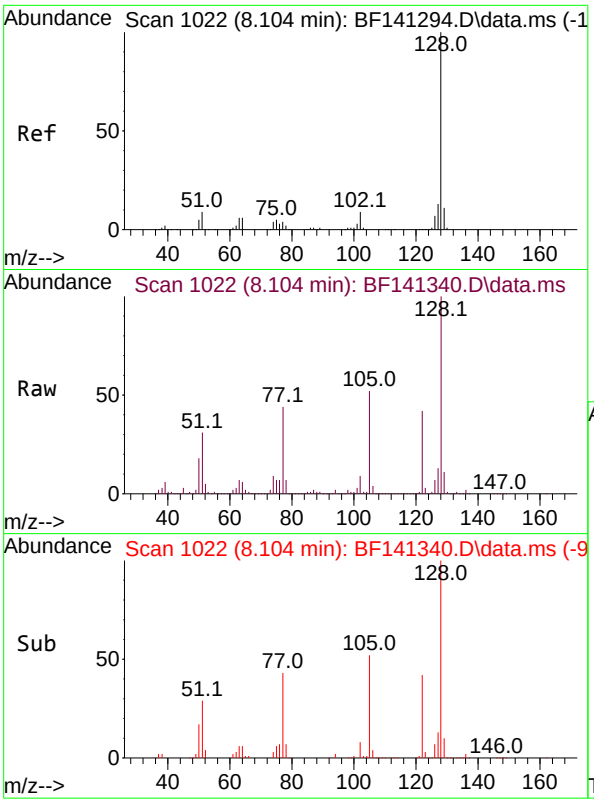


#30
1,2,4-Trichlorobenzene
Concen: 38.916 ng
RT: 8.022 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:180 Resp: 334708

Ion	Ratio	Lower	Upper
180	100		
182	94.1	76.4	114.6
145	30.7	24.9	37.3

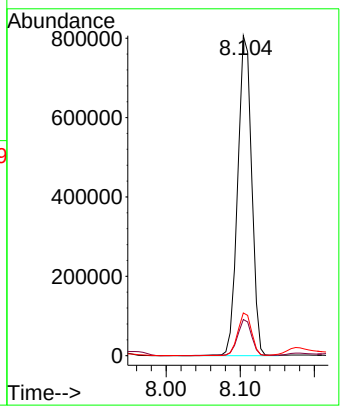




#31
Naphthalene
Concen: 38.311 ng
RT: 8.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:128 Resp: 105507

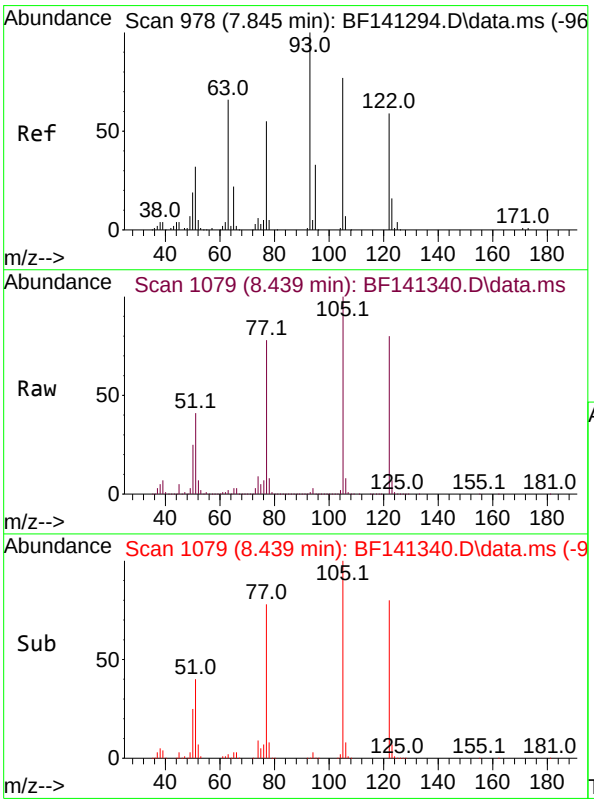
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

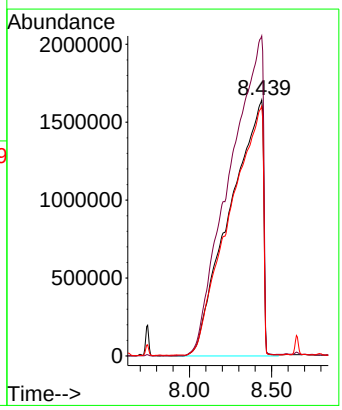
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

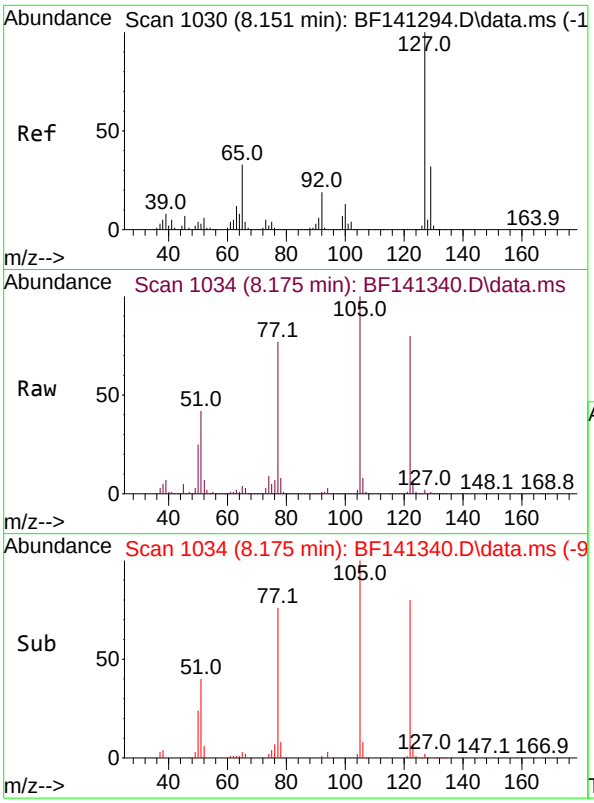


#32
Benzoic acid
Concen: 4106.266 ng m
RT: 8.439 min Scan# 1079
Delta R.T. 0.559 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:122 Resp:23221760

Ion	Ratio	Lower	Upper
122	100		
105	125.0	103.4	143.4
77	97.5	70.9	110.9





#33
4-Chloroaniline
Concen: 6.181 ng
RT: 8.175 min Scan# 1
Delta R.T. 0.017 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

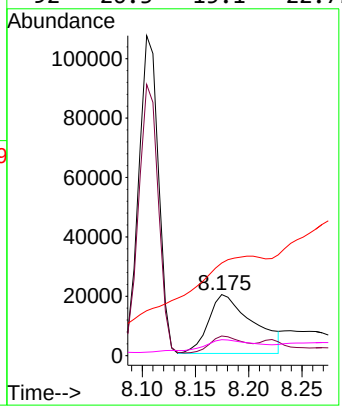
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

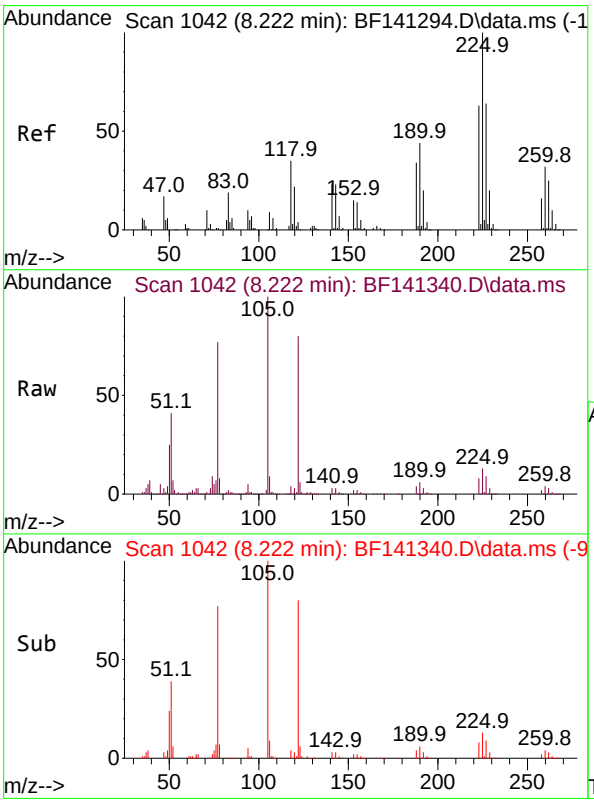
Tgt Ion:127 Resp: 5772

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.7	38.5
65	151.6	26.4	39.6#
92	26.3	15.1	22.7#

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

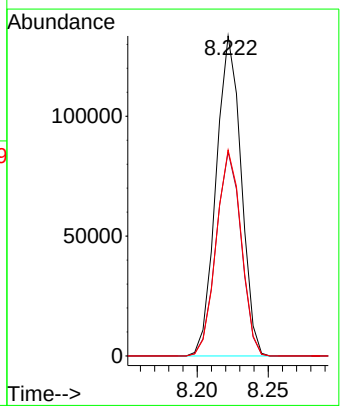


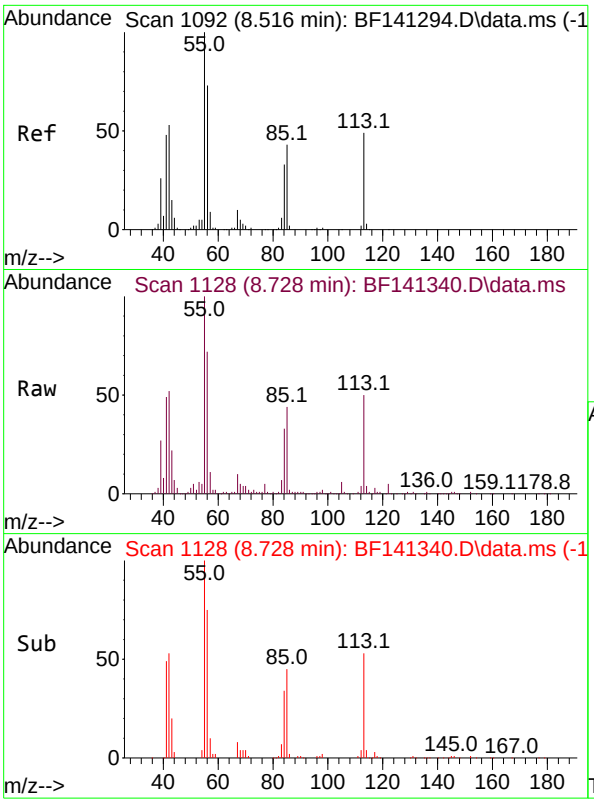


#34
Hexachlorobutadiene
Concen: 32.412 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:225 Resp: 163478

Ion	Ratio	Lower	Upper
225	100		
223	63.8	50.4	75.6
227	64.4	51.3	76.9

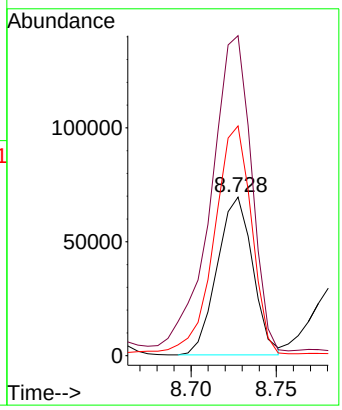




#35
Caprolactam
Concen: 40.952 ng
RT: 8.728 min Scan# 11
Delta R.T. 0.182 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:113 Resp: 10072

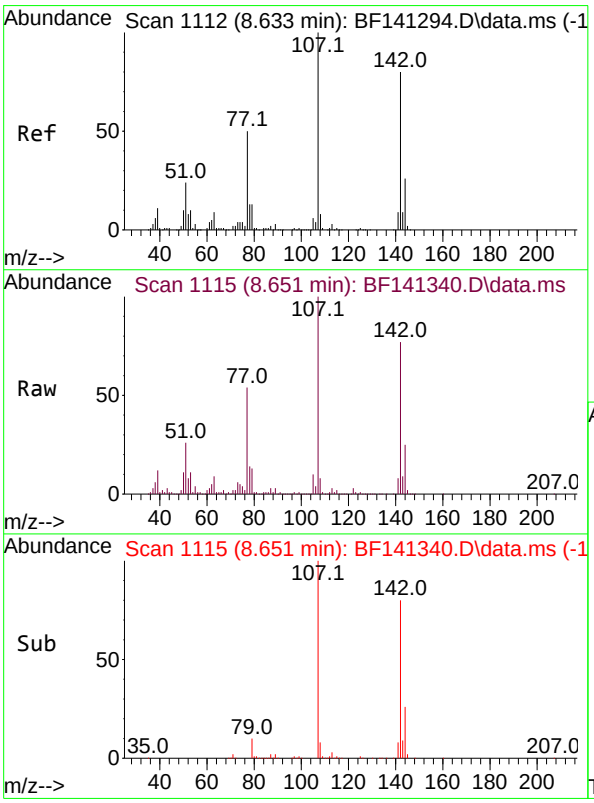
Ion	Ratio	Lower	Upper
113	100		
55	201.8	182.9	222.9
56	144.9	127.9	167.9



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

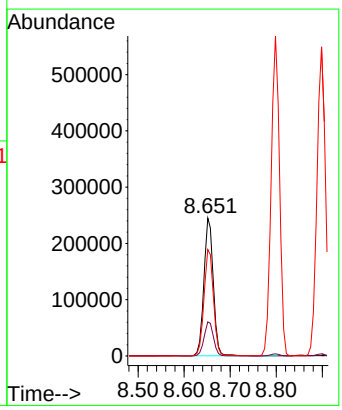
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

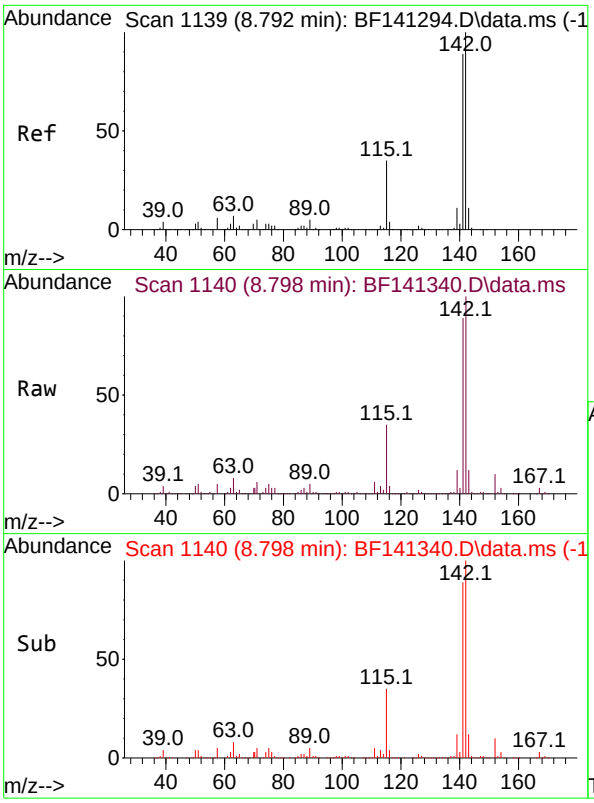


#36
4-Chloro-3-methylphenol
Concen: 43.224 ng
RT: 8.651 min Scan# 1115
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:107 Resp: 349171

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.7	31.1
142	77.2	63.8	95.8





#37
2-Methylnaphthalene
Concen: 40.815 ng
RT: 8.798 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

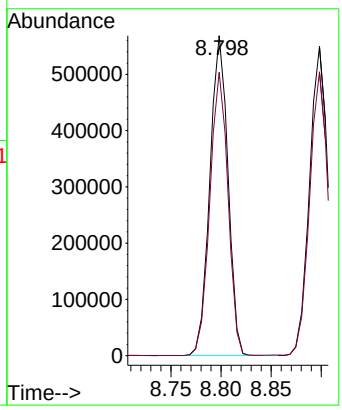
Tgt Ion:142 Resp: 71442

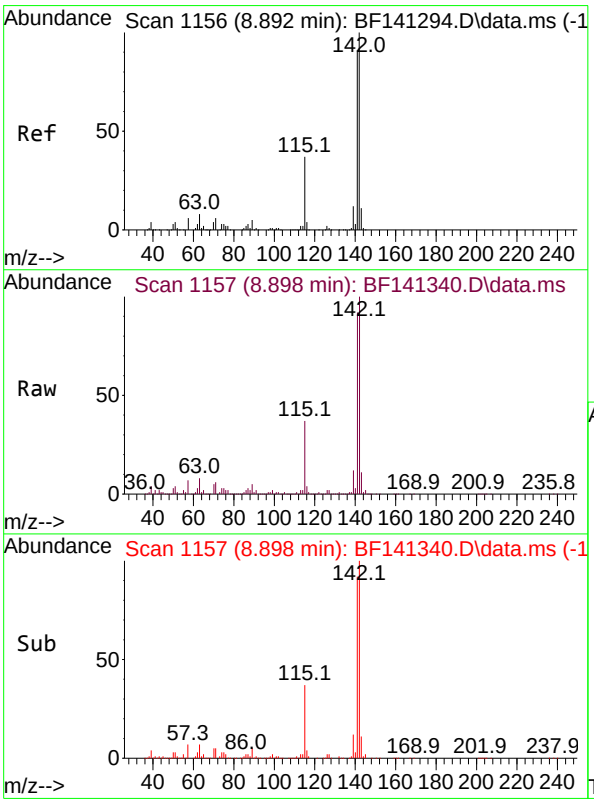
Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.3	106.9

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

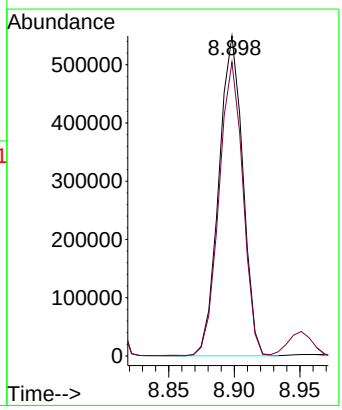


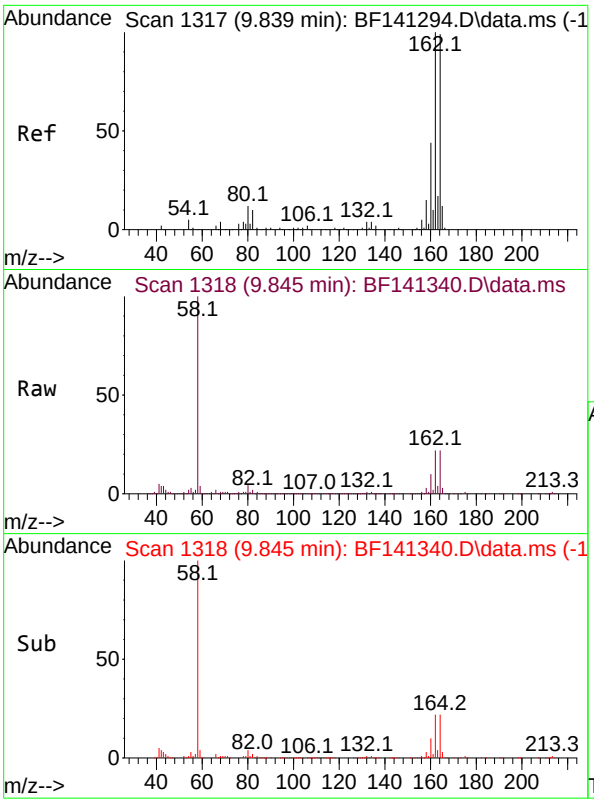


#38
1-Methylnaphthalene
Concen: 40.561 ng
RT: 8.898 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:142 Resp: 697402

Ion	Ratio	Lower	Upper
142	100		
141	91.8	73.2	109.8

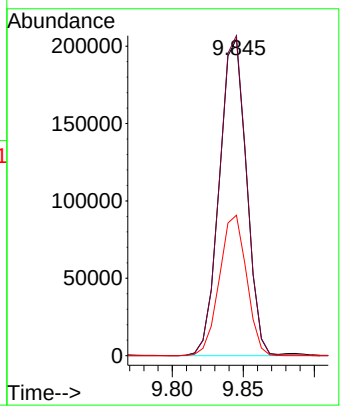




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.845 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:164 Resp: 27129

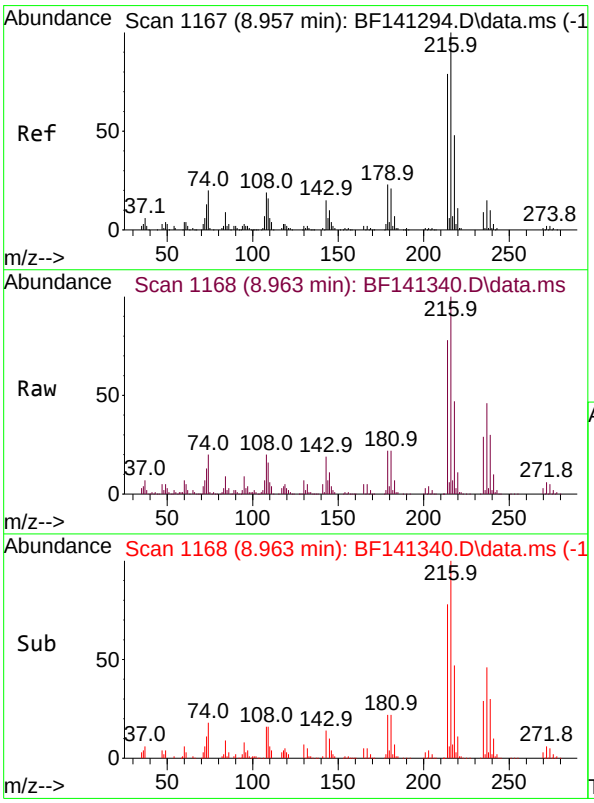
Ion	Ratio	Lower	Upper
164	100		
162	101.0	80.6	121.0
160	44.4	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

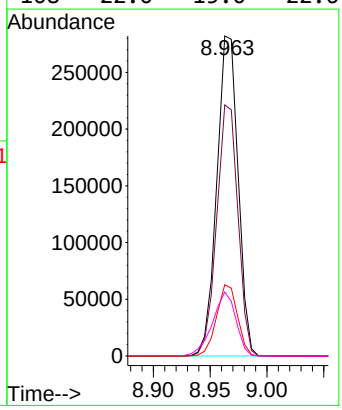
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

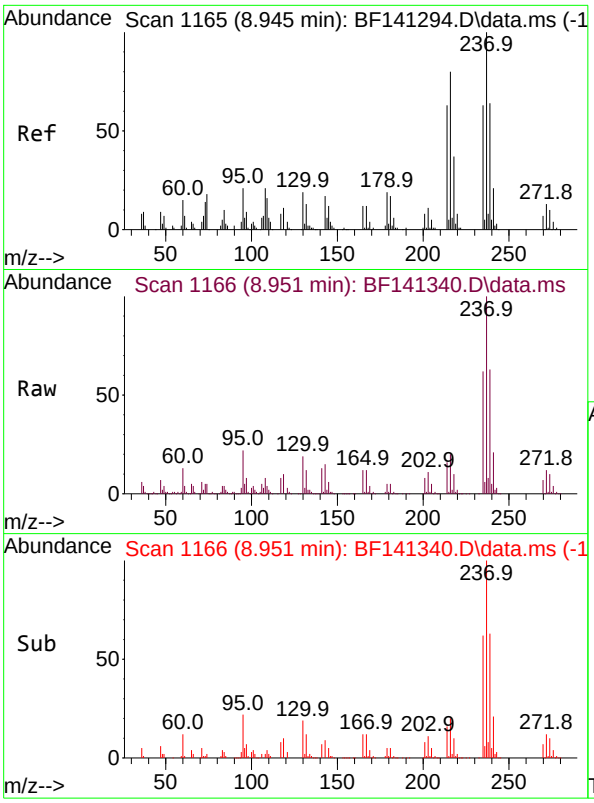


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.739 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:216 Resp: 368448

Ion	Ratio	Lower	Upper
216	100		
214	78.3	63.2	94.8
179	21.9	17.8	26.8
108	22.0	15.0	22.6





#41
Hexachlorocyclopentadiene
Concen: 185.647 ng
RT: 8.951 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

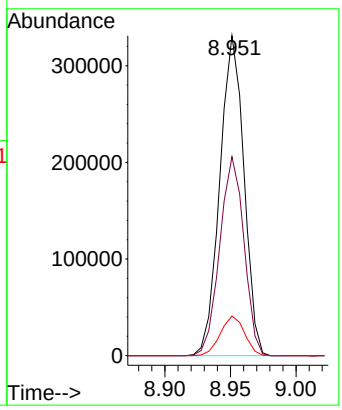
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

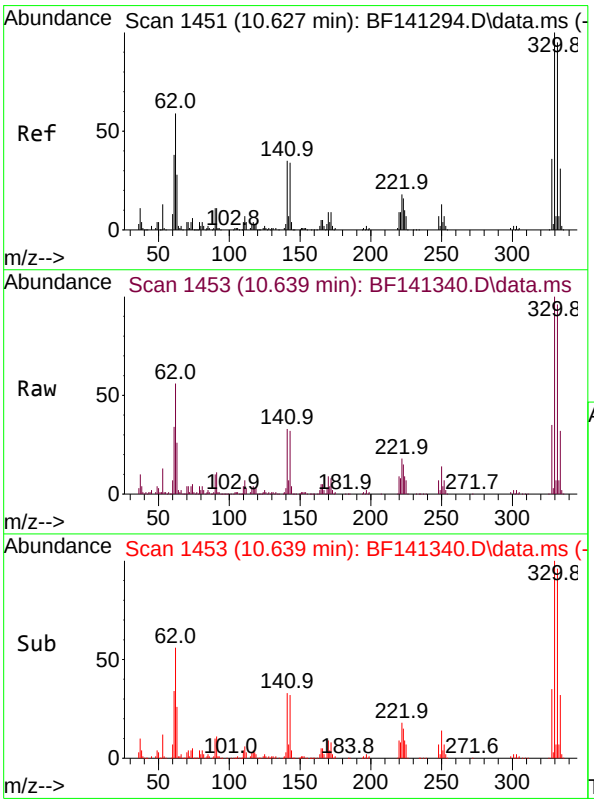
Tgt Ion:237 Resp: 42315

Ion	Ratio	Lower	Upper
237	100		
235	62.1	42.9	82.9
272	12.4	0.0	32.8

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

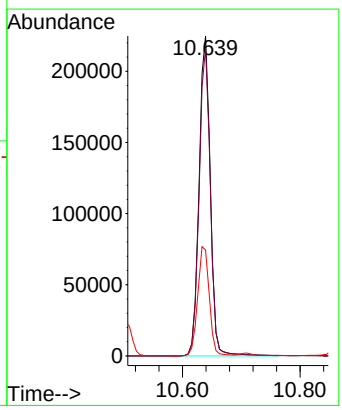


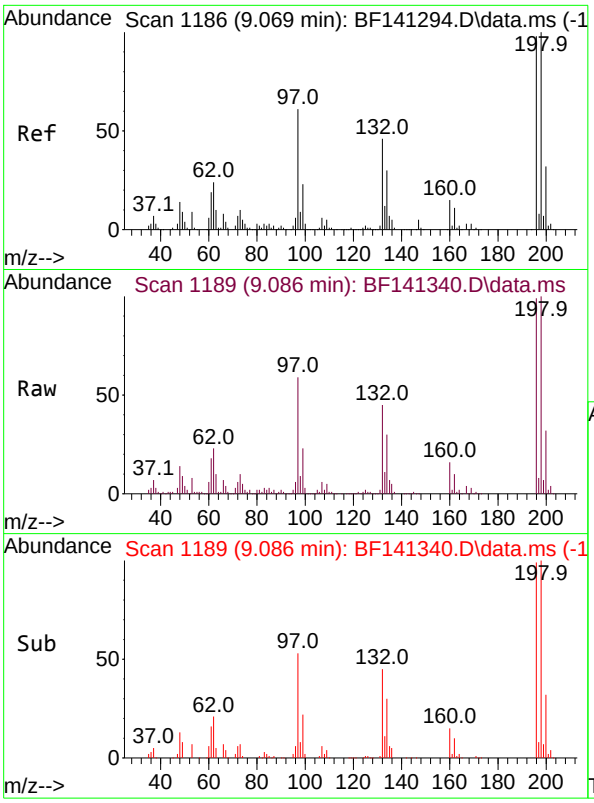


#42
2,4,6-Tribromophenol
Concen: 119.788 ng
RT: 10.639 min Scan# 1453
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:330 Resp: 297928

Ion	Ratio	Lower	Upper
330	100		
332	96.1	76.1	114.1
141	35.5	28.8	43.2

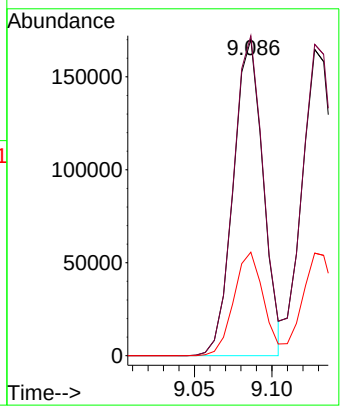




#43
2,4,6-Trichlorophenol
Concen: 45.039 ng
RT: 9.086 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:196 Resp: 22752

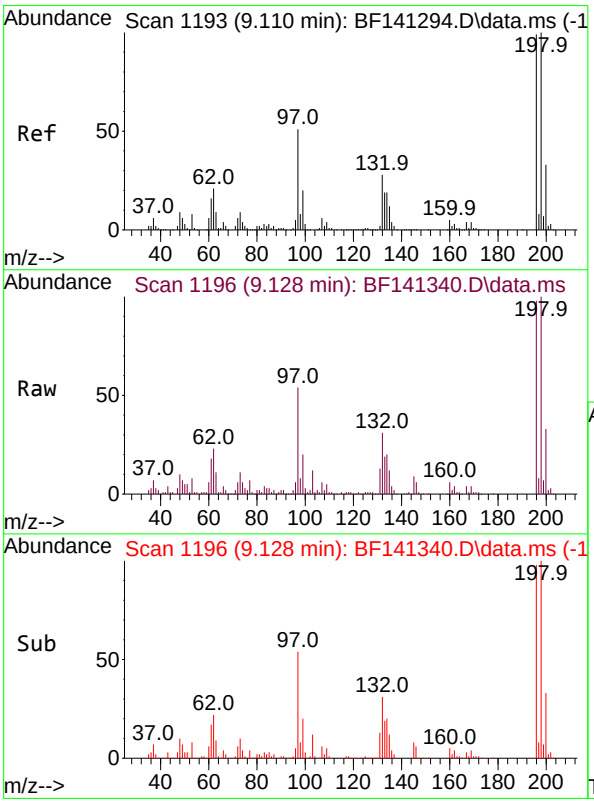
Ion	Ratio	Lower	Upper
196	100		
198	101.2	81.8	122.6
200	32.7	26.3	39.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

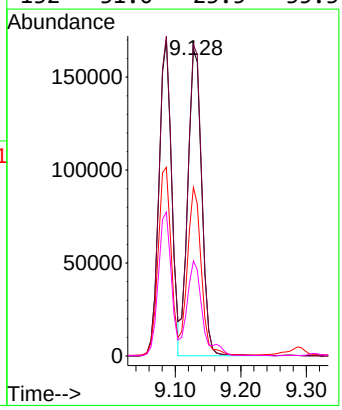
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

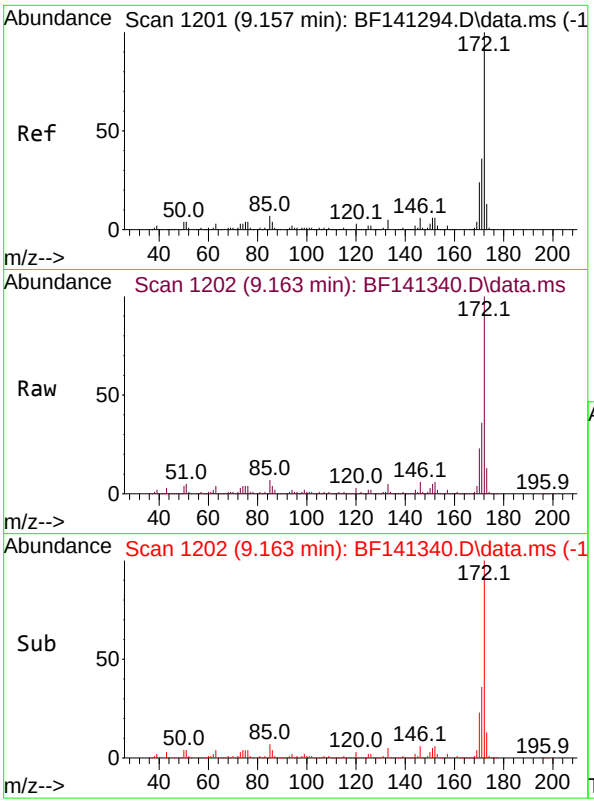


#44
2,4,5-Trichlorophenol
Concen: 43.818 ng
RT: 9.128 min Scan# 1196
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:196 Resp: 240917

Ion	Ratio	Lower	Upper
196	100		
198	101.7	80.5	120.7
97	55.1	42.8	64.2
132	31.0	23.5	35.3

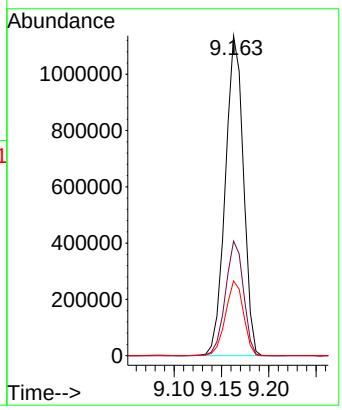




#45
2-Fluorobiphenyl
Concen: 85.665 ng
RT: 9.163 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:172 Resp: 150990

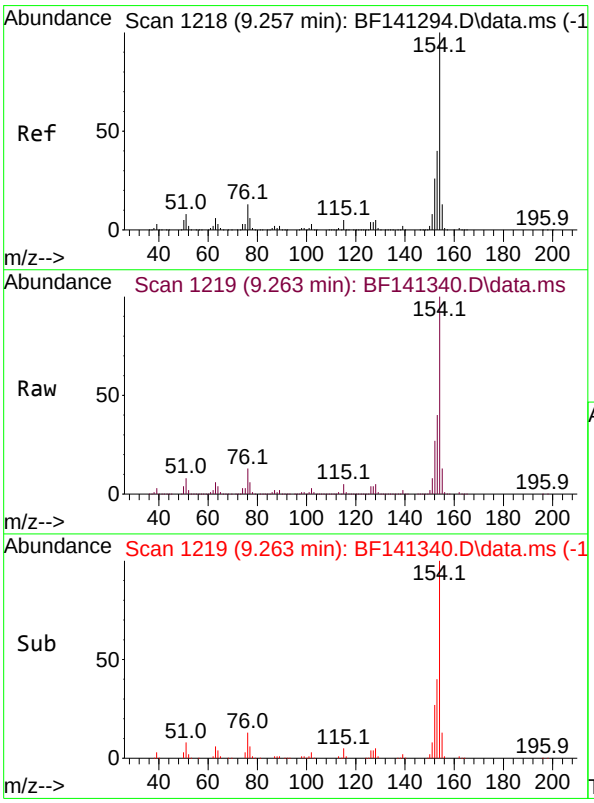
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.3	19.0	28.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

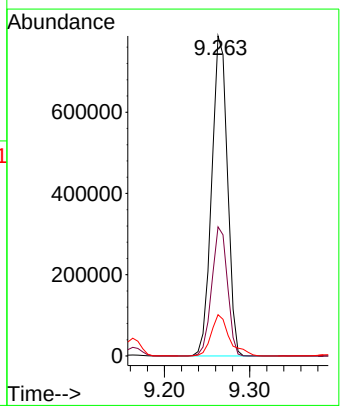
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

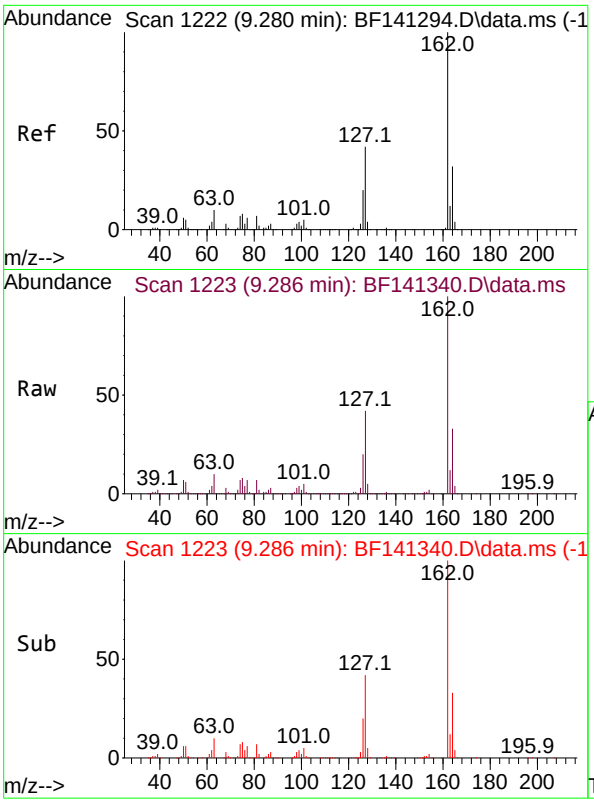


#46
1,1'-Biphenyl
Concen: 47.606 ng
RT: 9.263 min Scan# 1219
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:154 Resp: 1007225

Ion	Ratio	Lower	Upper
154	100		
153	40.4	20.0	60.0
76	12.9	0.0	32.8

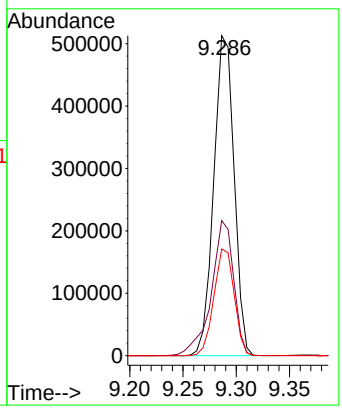




#47
2-Chloronaphthalene
Concen: 41.240 ng
RT: 9.286 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:162 Resp: 68008

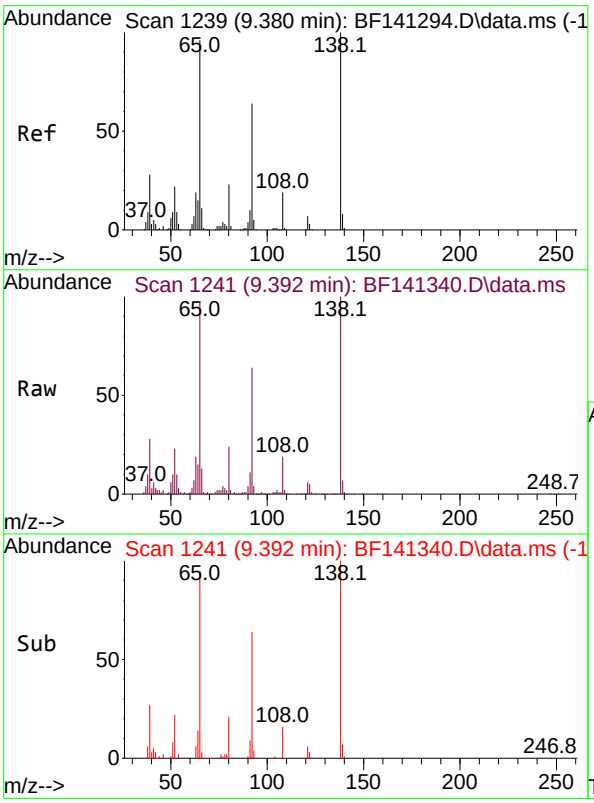
Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.7	50.5
164	33.4	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

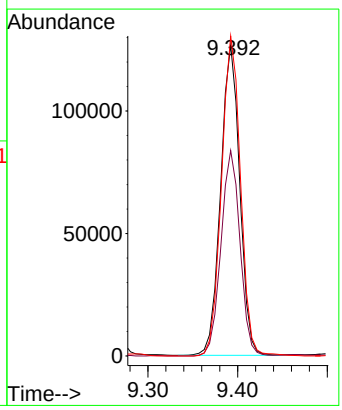
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

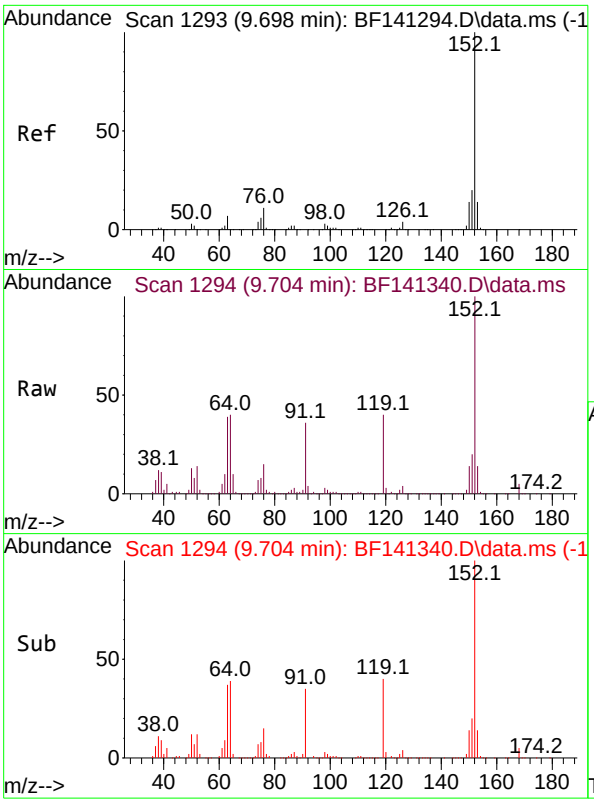


#48
2-Nitroaniline
Concen: 35.958 ng
RT: 9.392 min Scan# 1241
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 65 Resp: 186519

Ion	Ratio	Lower	Upper
65	100		
92	66.1	53.3	79.9
138	102.9	83.6	125.4

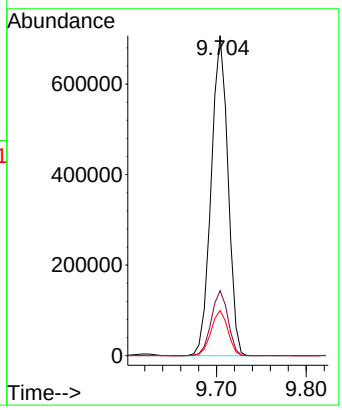




#49
Acenaphthylene
Concen: 39.699 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:152 Resp: 91643

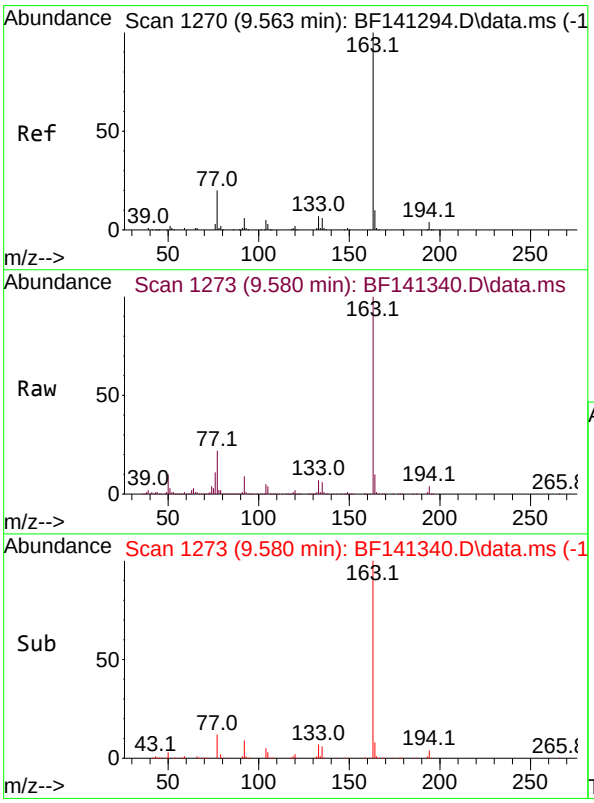
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.2
153	14.1	11.0	16.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

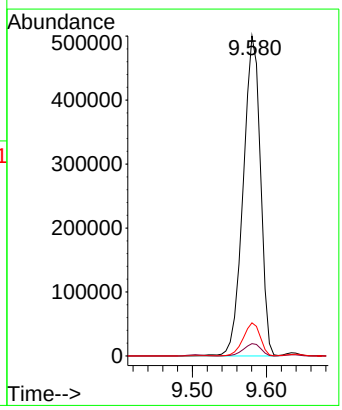
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

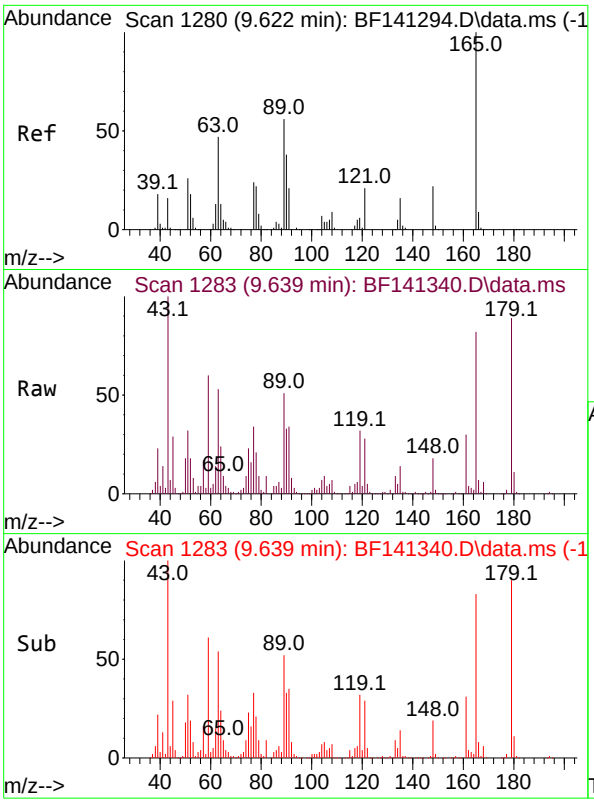


#50
Dimethylphthalate
Concen: 44.149 ng
RT: 9.580 min Scan# 1273
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:163 Resp: 808935

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.4	8.0	12.0

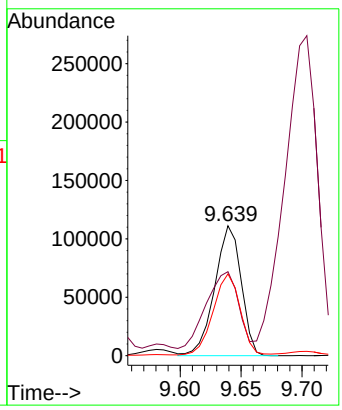




#51
2,6-Dinitrotoluene
Concen: 39.479 ng
RT: 9.639 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:165 Resp: 16795

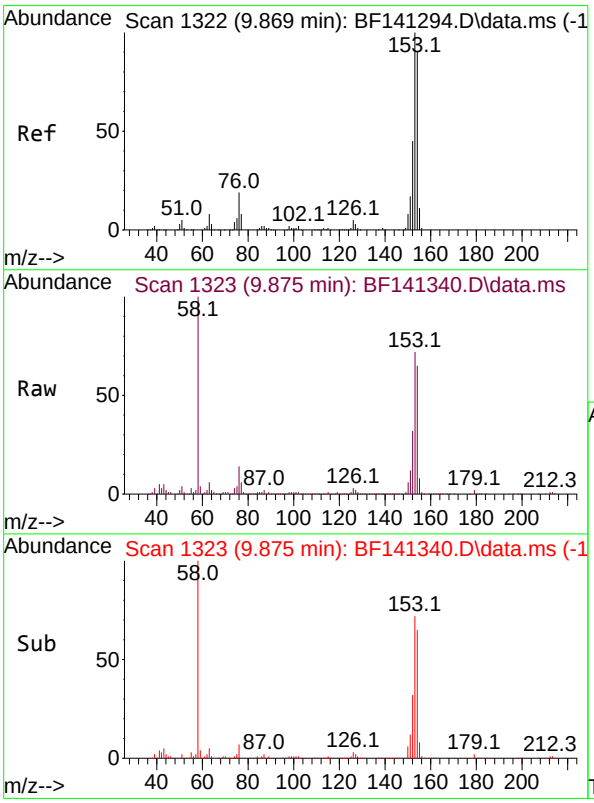
Ion	Ratio	Lower	Upper
165	100		
63	64.7	48.1	72.1
89	62.9	44.9	67.3



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

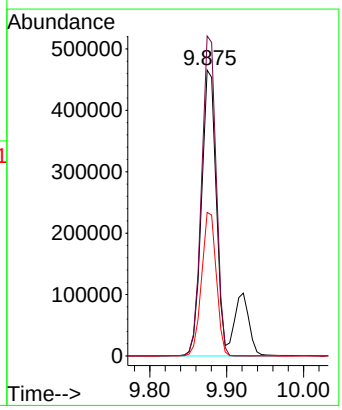
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

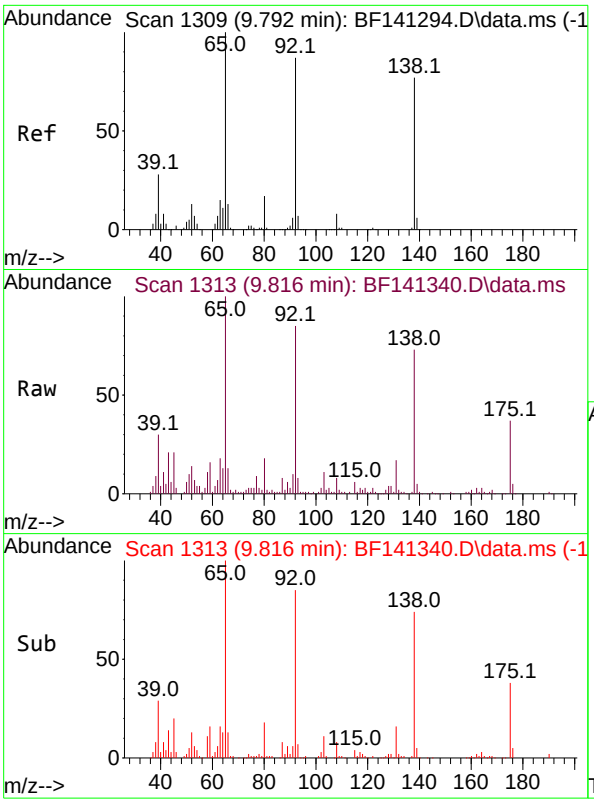


#52
Acenaphthene
Concen: 45.675 ng m
RT: 9.875 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:154 Resp: 753252

Ion	Ratio	Lower	Upper
154	100		
153	111.9	89.0	133.4
152	50.2	40.2	60.4

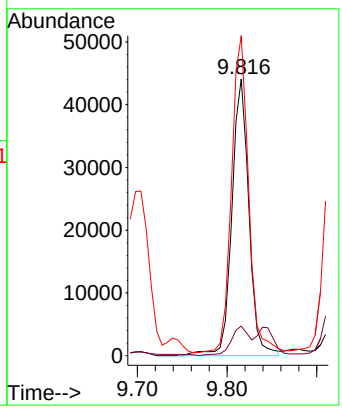




#53
3-Nitroaniline
Concen: 13.927 ng
RT: 9.816 min Scan# 1
Delta R.T. 0.017 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:138 Resp: 5807

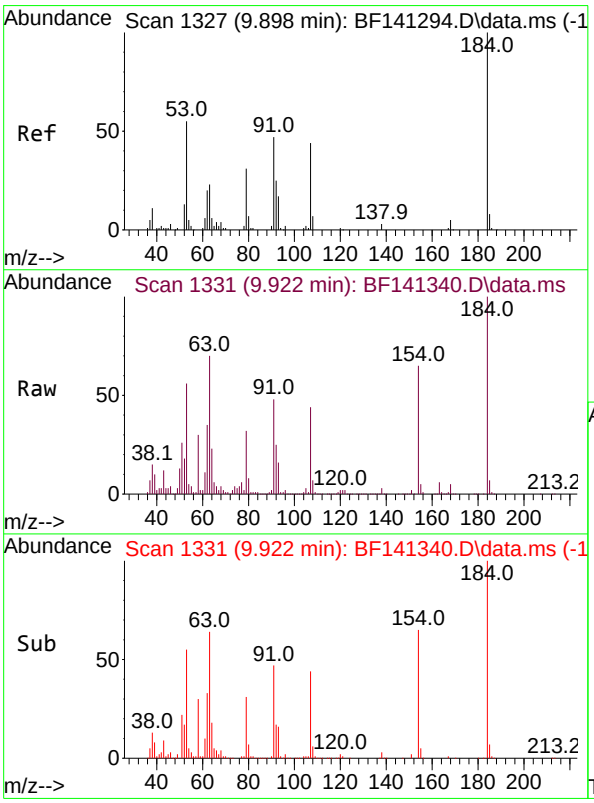
Ion	Ratio	Lower	Upper
138	100		
108	10.7	8.6	12.8
92	115.7	91.0	136.6



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

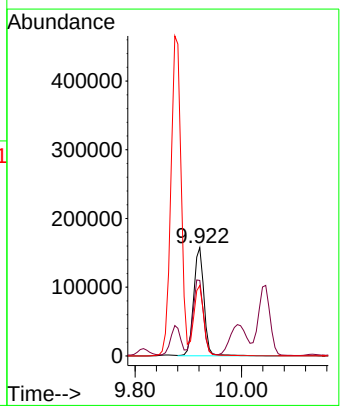
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

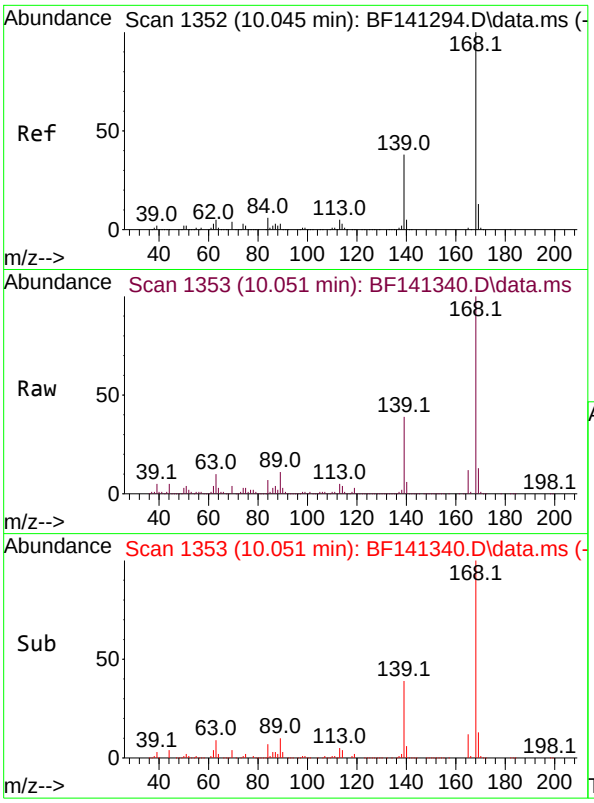


#54
2,4-Dinitrophenol
Concen: 106.961 ng
RT: 9.922 min Scan# 1331
Delta R.T. 0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:184 Resp: 211534

Ion	Ratio	Lower	Upper
184	100		
63	69.8	54.1	81.1
154	65.1	50.7	76.1

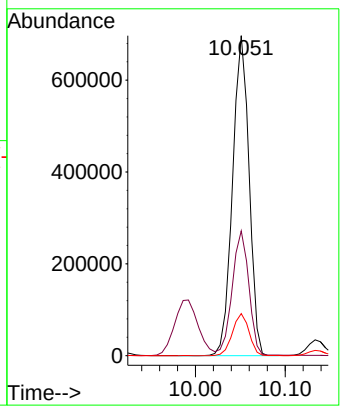




#55
Dibenzofuran
Concen: 40.410 ng
RT: 10.051 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:168 Resp: 89205

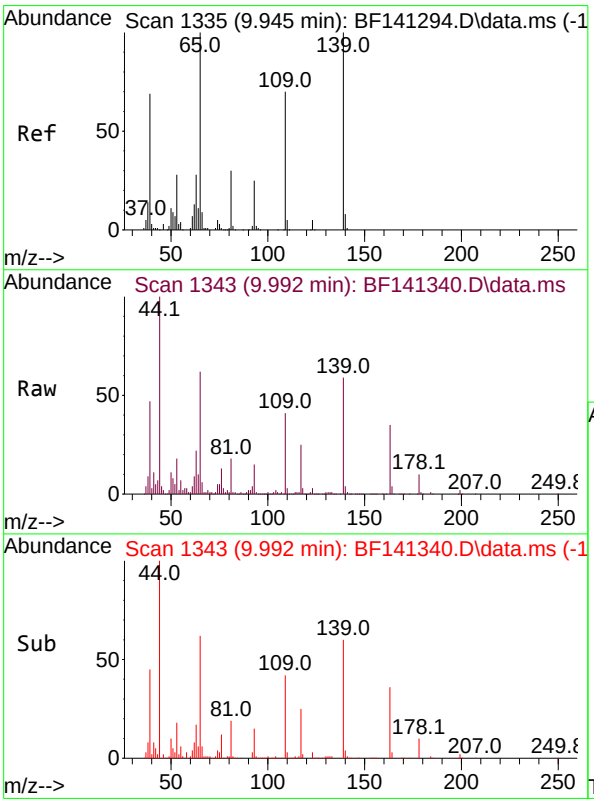
Ion	Ratio	Lower	Upper
168	100		
139	39.0	30.6	46.0
169	13.2	10.8	16.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

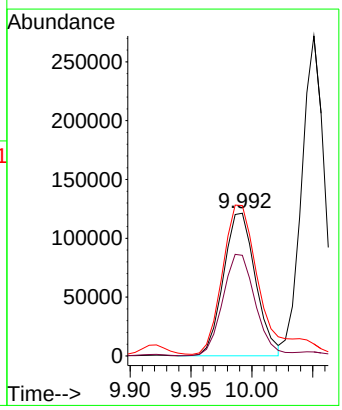
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

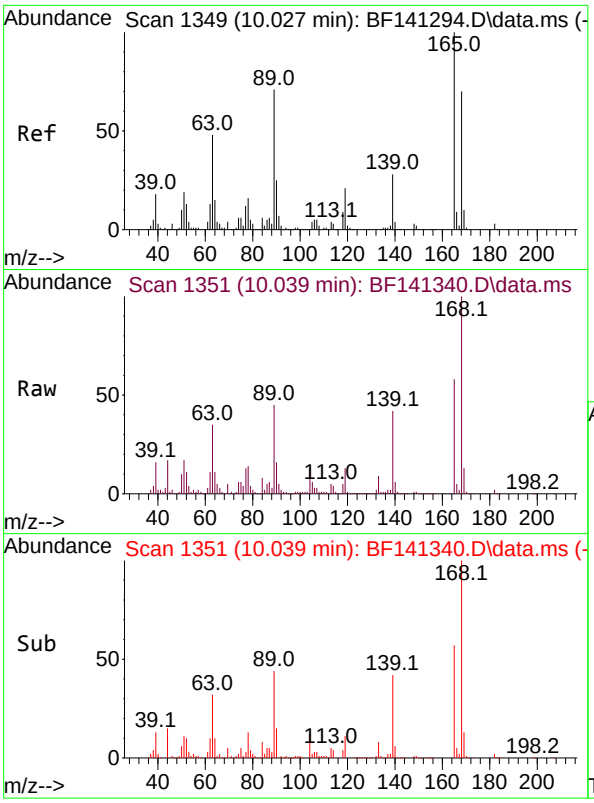


#56
4-Nitrophenol
Concen: 72.869 ng
RT: 9.992 min Scan# 1343
Delta R.T. 0.035 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:139 Resp: 222214

Ion	Ratio	Lower	Upper
139	100		
109	70.5	50.2	90.2
65	105.4	80.6	120.6

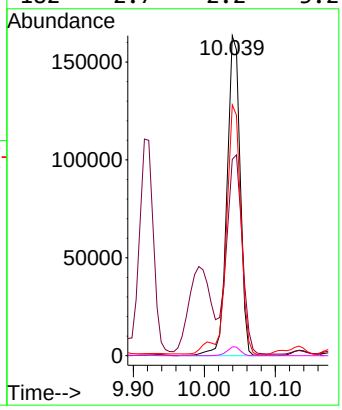




#57
2,4-Dinitrotoluene
Concen: 38.361 ng
RT: 10.039 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:165 Resp: 21130

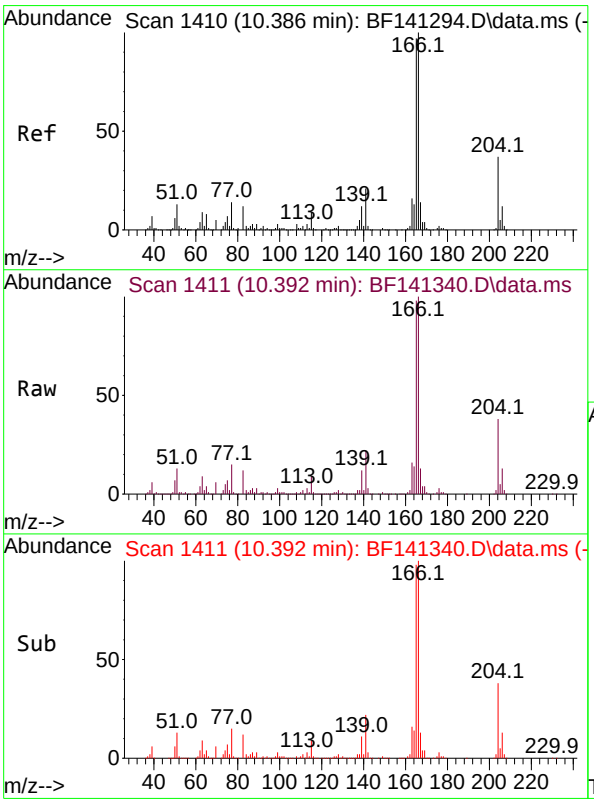
Ion	Ratio	Lower	Upper
165	100		
63	61.4	39.2	58.8
89	78.4	56.9	85.3
182	2.7	2.2	3.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

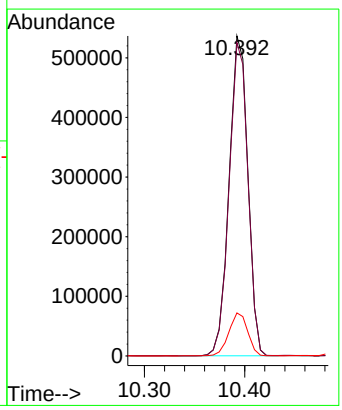
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

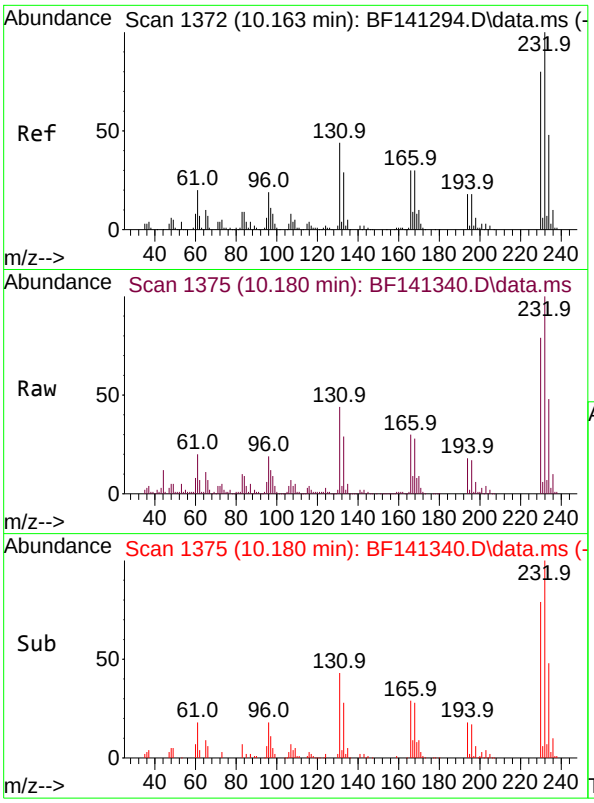


#58
Fluorene
Concen: 40.687 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:166 Resp: 696694

Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.5	116.3
167	13.5	10.9	16.3

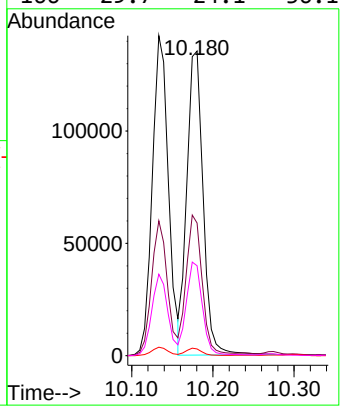




#59
2,3,4,6-Tetrachlorophenol
Concen: 43.744 ng
RT: 10.180 min Scan# 1
Delta R.T. 0.017 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:232 Resp: 18921

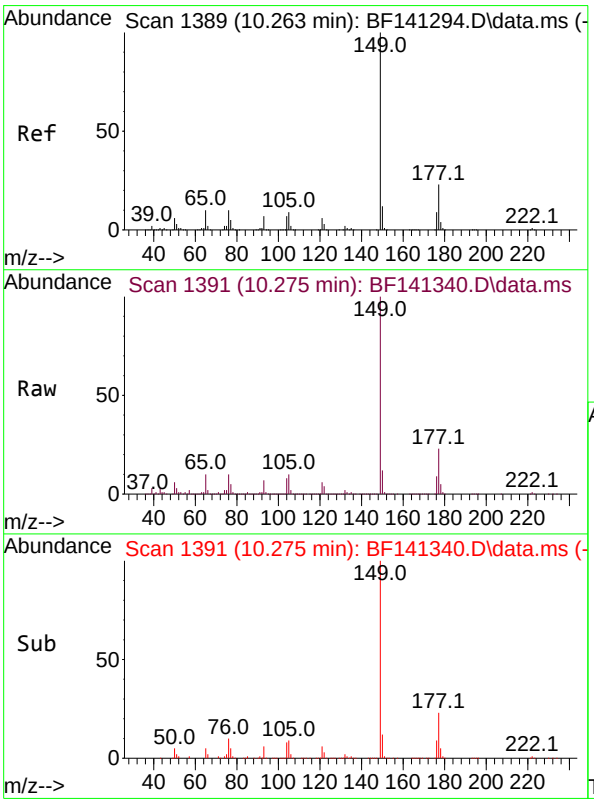
Ion	Ratio	Lower	Upper
232	100		
131	43.5	36.4	54.6
130	2.2	1.9	2.9
166	29.7	24.1	36.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

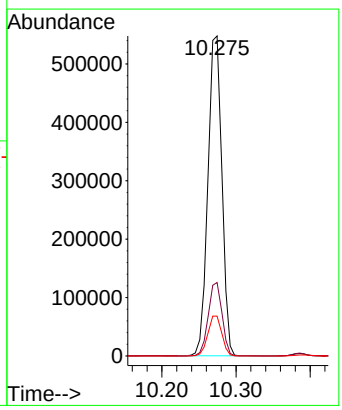
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

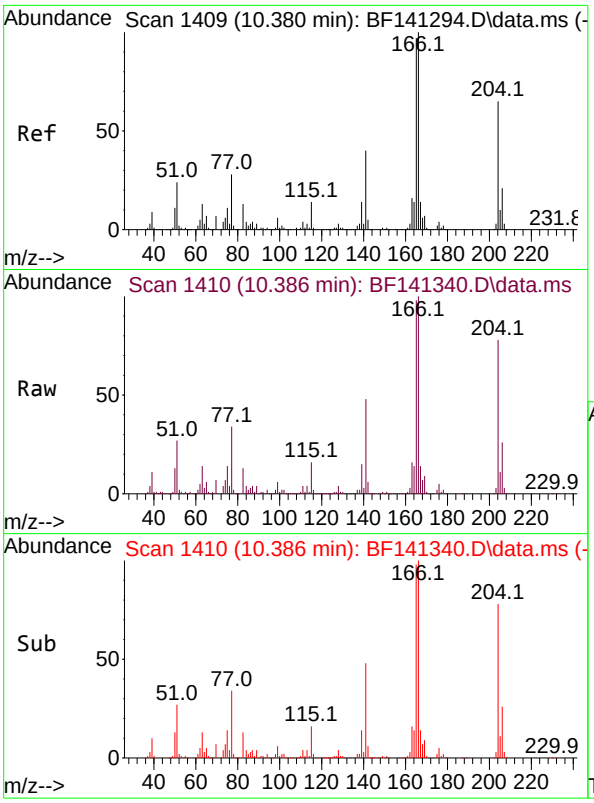


#60
Diethylphthalate
Concen: 40.427 ng
RT: 10.275 min Scan# 1391
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:149 Resp: 718228

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.5	27.7
150	12.5	10.0	15.0





#61
4-Chlorophenyl-phenylether
Concen: 40.818 ng
RT: 10.386 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

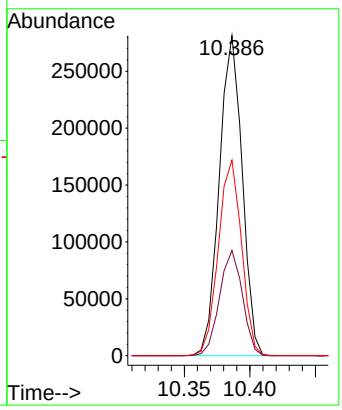
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

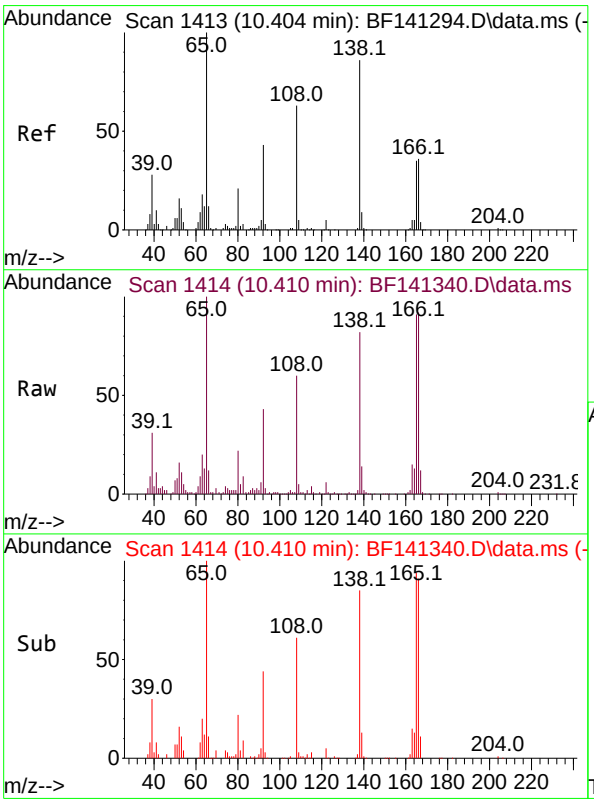
Tgt Ion:204 Resp: 34140

Ion	Ratio	Lower	Upper
204	100		
206	32.9	25.9	38.9
141	61.1	49.5	74.3

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

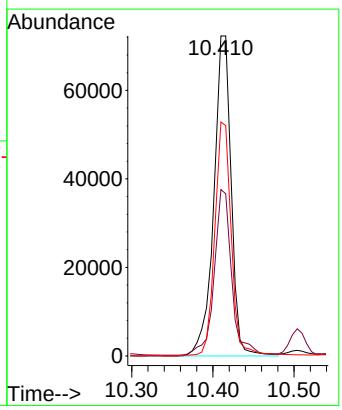


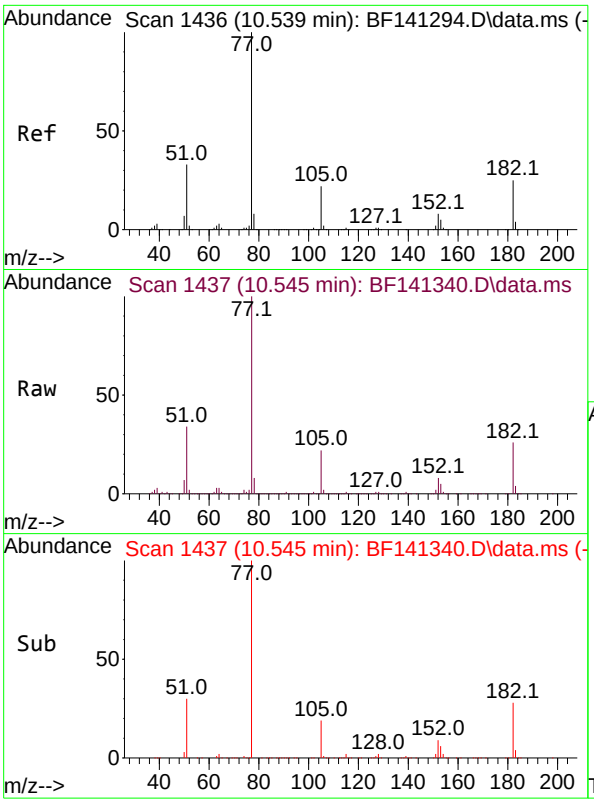


#62
4-Nitroaniline
Concen: 26.373 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:138 Resp: 108113

Ion	Ratio	Lower	Upper
138	100		
92	52.0	30.1	70.1
108	73.1	53.1	93.1

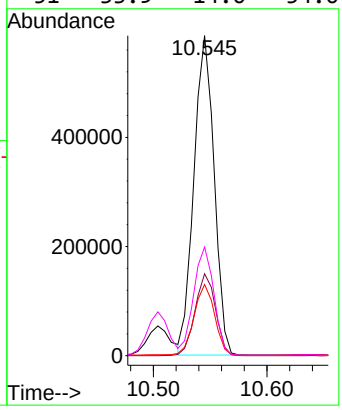




#63
Azobenzene
Concen: 40.778 ng
RT: 10.545 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion: 77 Resp: 72517

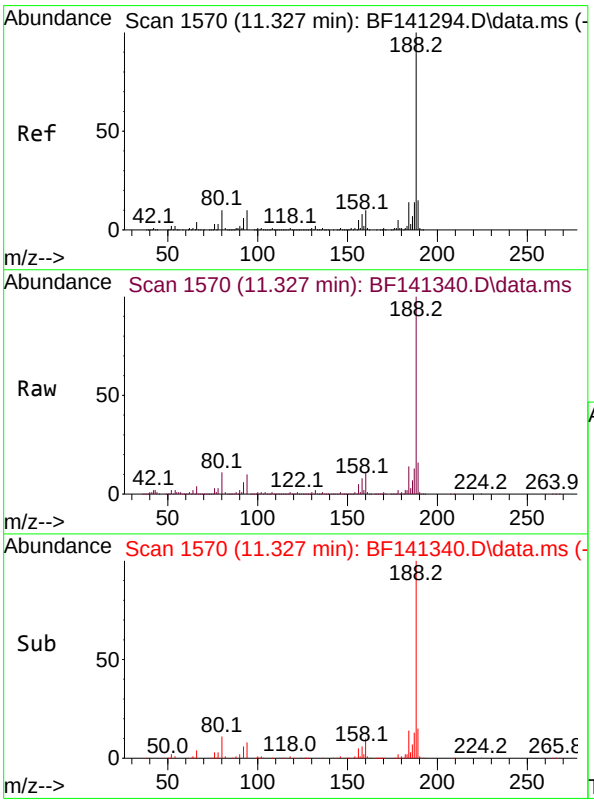
Ion	Ratio	Lower	Upper
77	100		
182	25.6	5.1	45.1
105	22.2	1.8	41.8
51	33.9	14.0	54.0



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

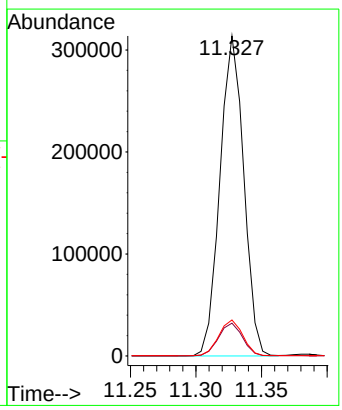
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

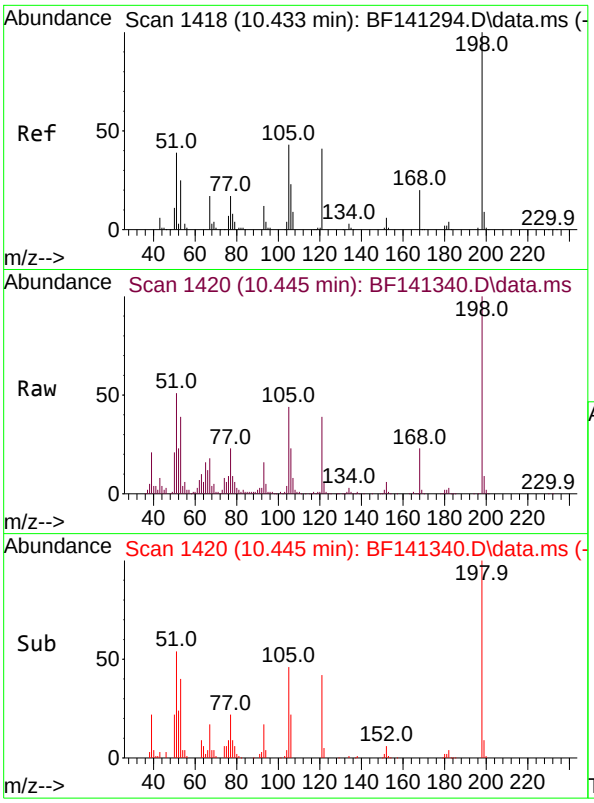


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:188 Resp: 395783

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.8	11.6
80	11.2	8.2	12.4

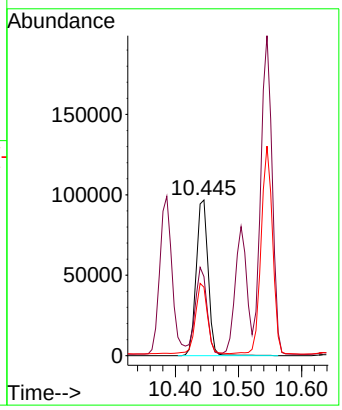




#65
4,6-Dinitro-2-methylphenol
Concen: 54.108 ng
RT: 10.445 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:198 Resp: 12666

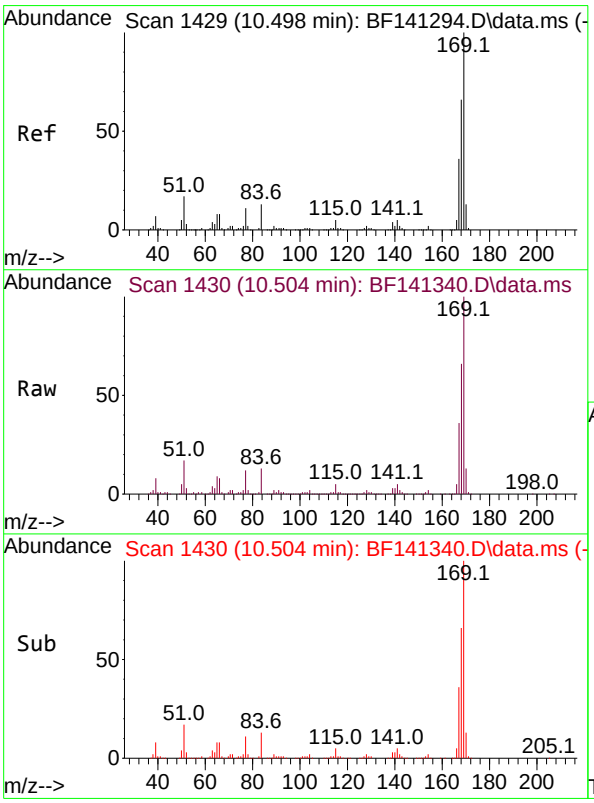
Ion	Ratio	Lower	Upper
198	100		
51	50.8	33.4	73.4
105	43.9	24.4	64.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

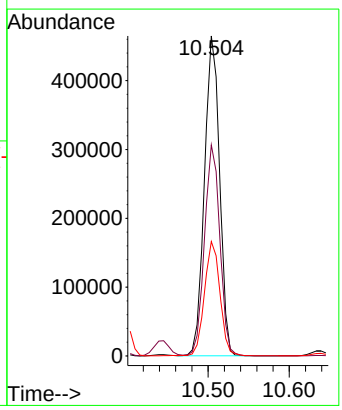
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

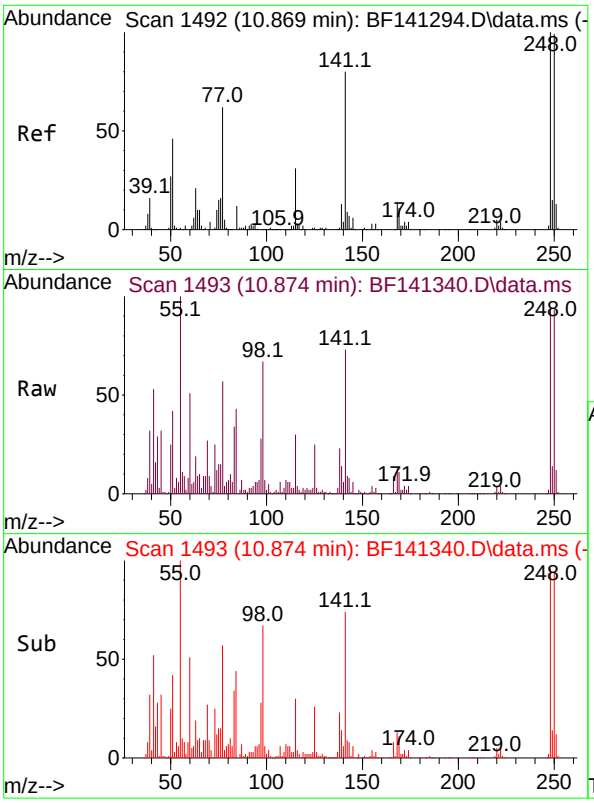


#66
n-Nitrosodiphenylamine
Concen: 46.919 ng
RT: 10.504 min Scan# 1430
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:169 Resp: 600618

Ion	Ratio	Lower	Upper
169	100		
168	65.9	53.0	79.4
167	35.8	28.8	43.2

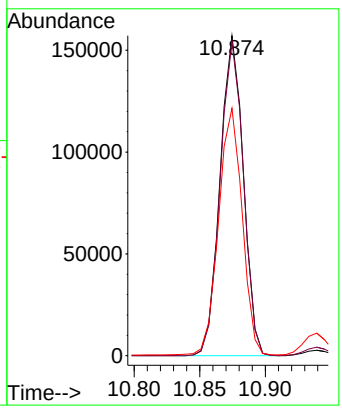




#67
4-Bromophenyl-phenylether
Concen: 43.730 ng
RT: 10.874 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:248 Resp: 19376

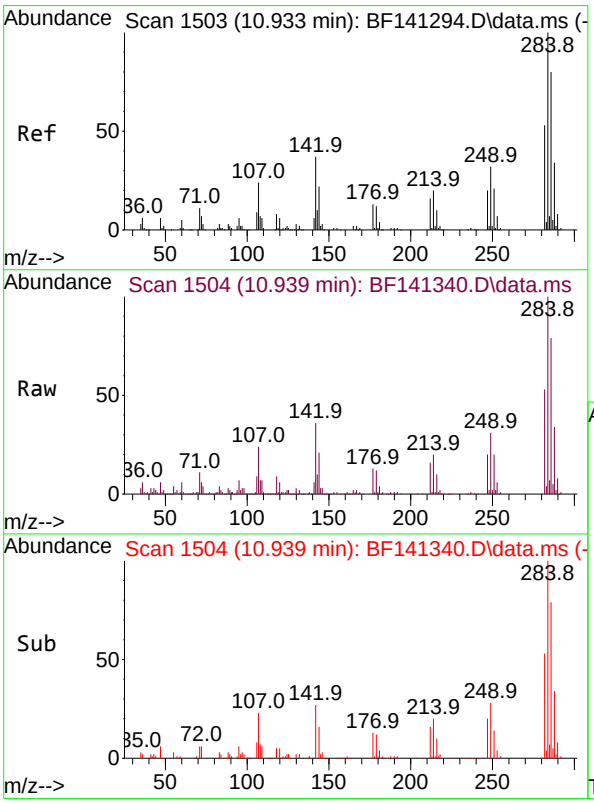
Ion	Ratio	Lower	Upper
248	100		
250	98.2	79.0	118.4
141	77.3	63.7	95.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

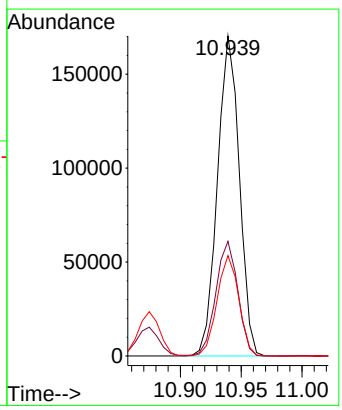
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

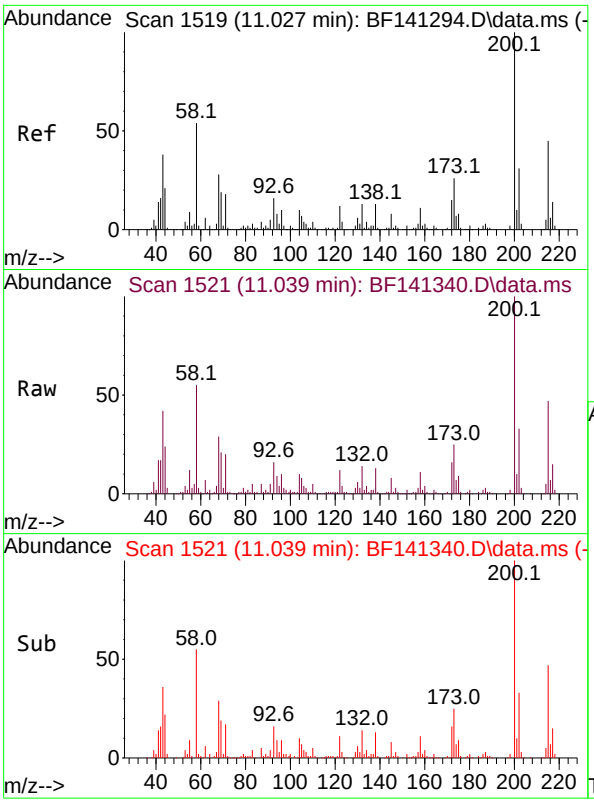


#68
Hexachlorobenzene
Concen: 45.303 ng
RT: 10.939 min Scan# 1504
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:284 Resp: 212929

Ion	Ratio	Lower	Upper
284	100		
142	35.8	29.5	44.3
249	31.3	25.4	38.2





#69
Atrazine
Concen: 32.088 ng
RT: 11.039 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

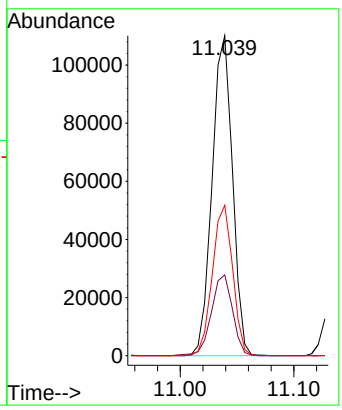
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

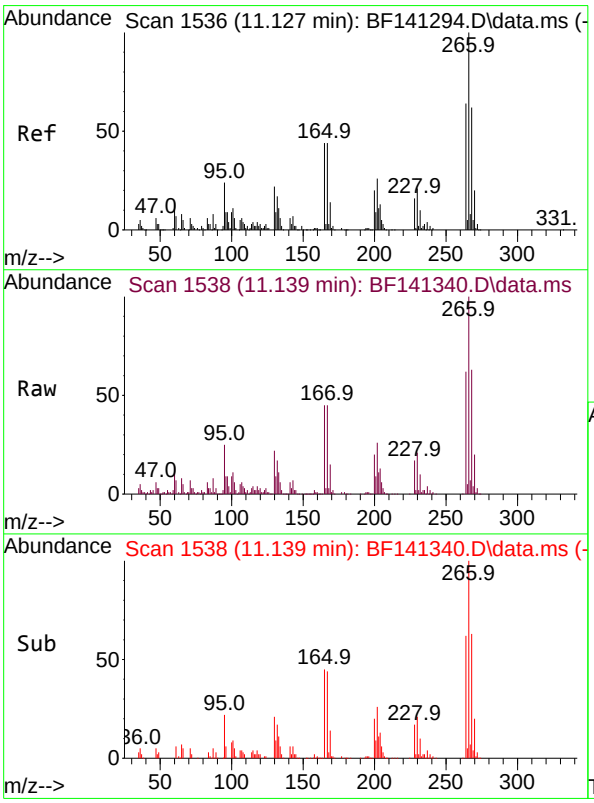
Tgt Ion:200 Resp: 13733

Ion	Ratio	Lower	Upper
200	100		
173	25.2	5.9	45.9
215	47.0	25.2	65.2

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

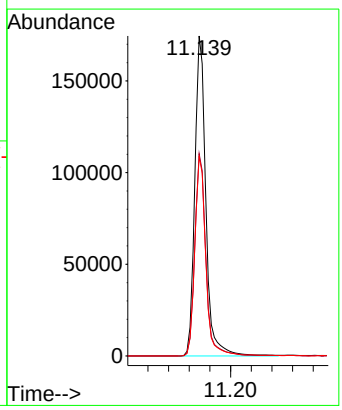


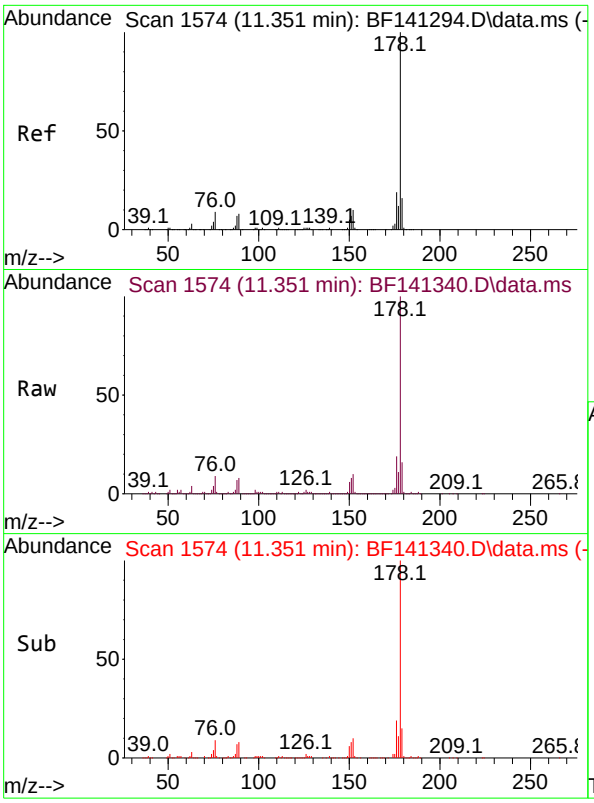


#70
Pentachlorophenol
Concen: 94.198 ng
RT: 11.139 min Scan# 1538
Delta R.T. 0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:266 Resp: 259262

Ion	Ratio	Lower	Upper
266	100		
268	63.2	49.9	74.9
264	62.4	51.0	76.4





#71
Phenanthrene
Concen: 43.712 ng
RT: 11.351 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

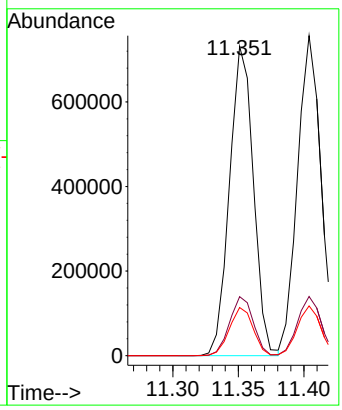
Tgt Ion:178 Resp: 92997

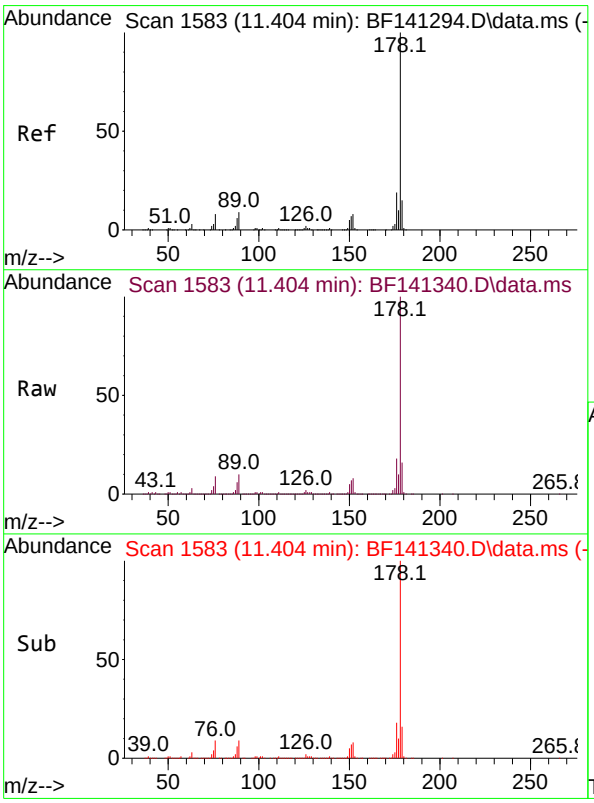
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.5	18.7

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

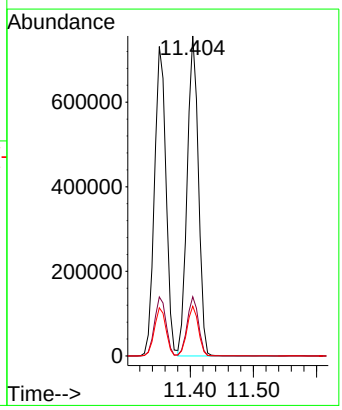


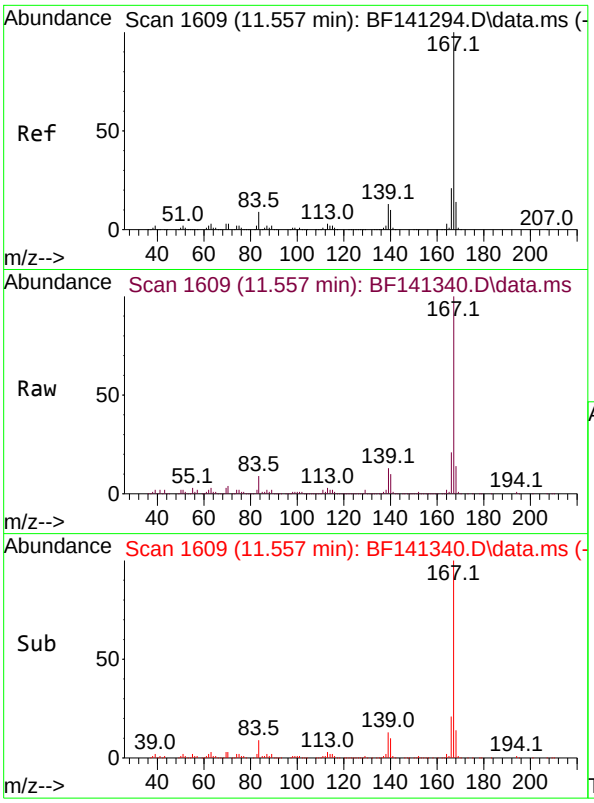


#72
Anthracene
Concen: 44.922 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:178 Resp: 936429

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.6	12.3	18.5

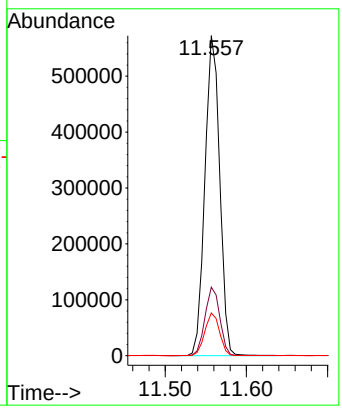




#73
Carbazole
Concen: 39.076 ng
RT: 11.557 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:167 Resp: 72230

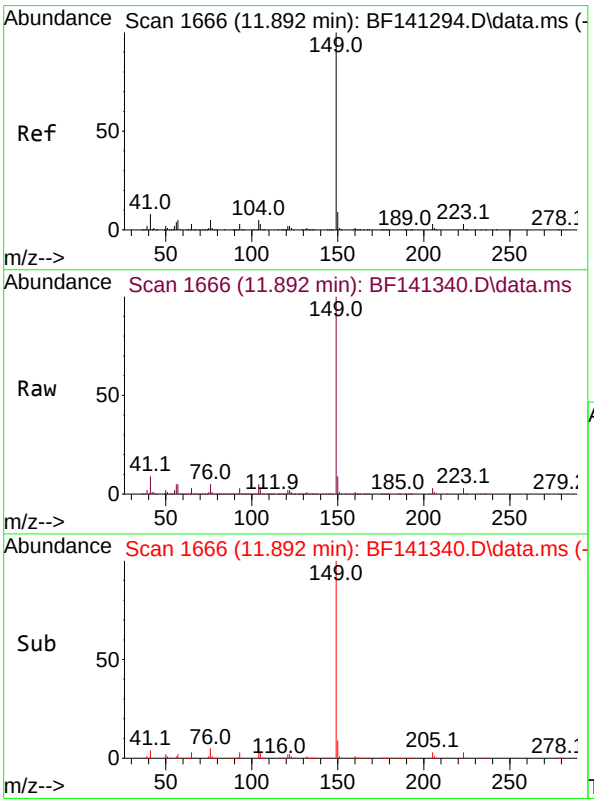
Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.0	25.6
139	13.4	10.6	16.0



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

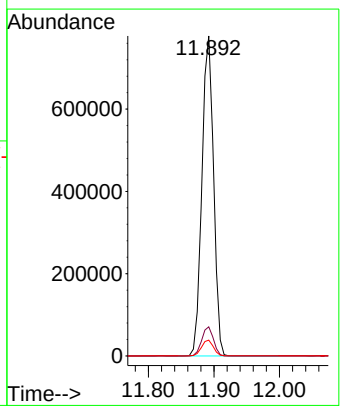
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

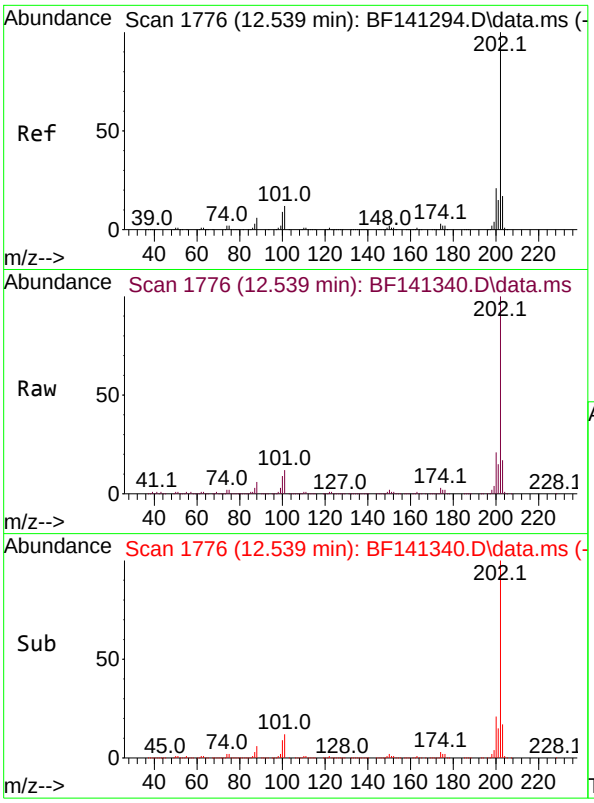


#74
Di-n-butylphthalate
Concen: 42.948 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:149 Resp: 962080

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.4	11.2
104	4.9	3.9	5.9





#75
Fluoranthene
Concen: 39.883 ng
RT: 12.539 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

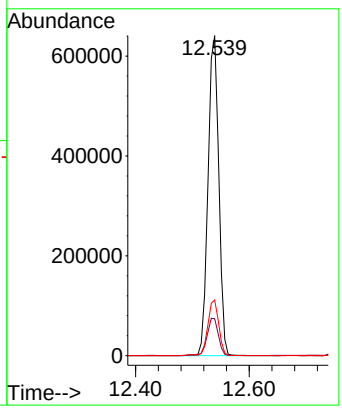
Tgt Ion:202 Resp: 83780

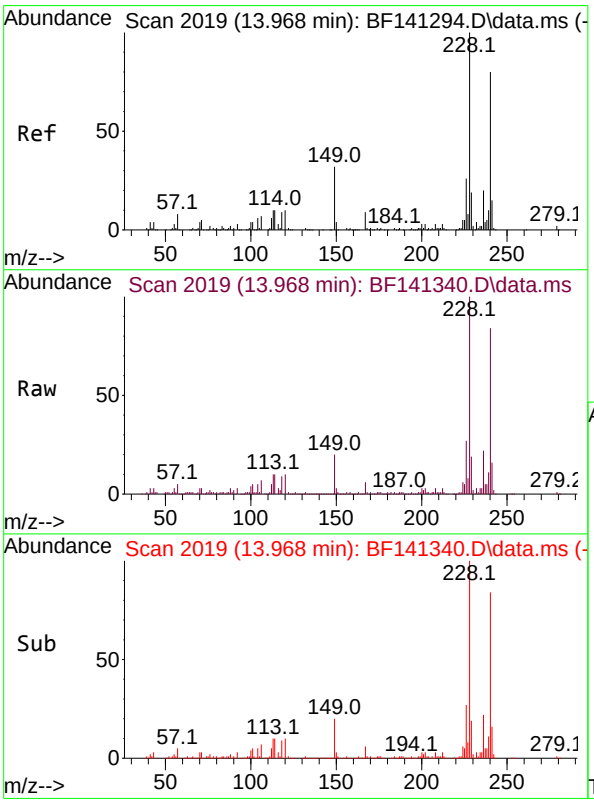
Ion	Ratio	Lower	Upper
202	100		
101	11.6	0.0	31.7
203	17.4	0.0	37.5

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

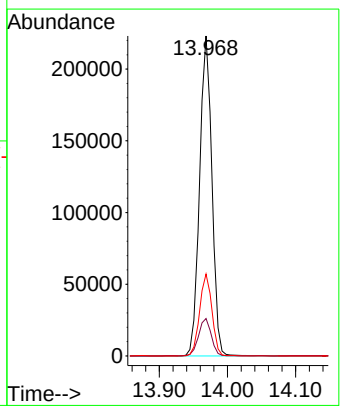


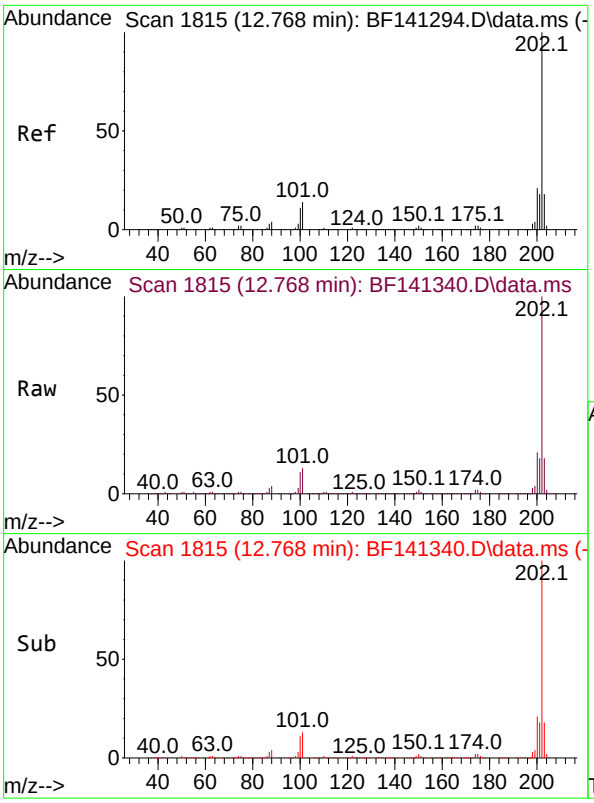


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:240 Resp: 279691

Ion	Ratio	Lower	Upper
240	100		
120	11.7	10.0	15.0
236	25.6	19.7	29.5

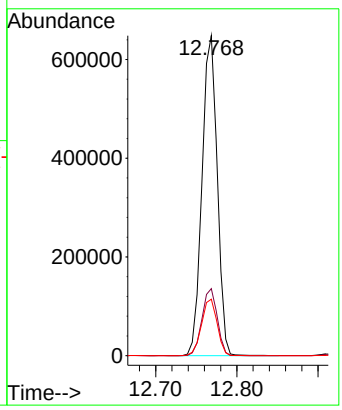




#78
Pyrene
Concen: 31.437 ng
RT: 12.768 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:202 Resp: 84401

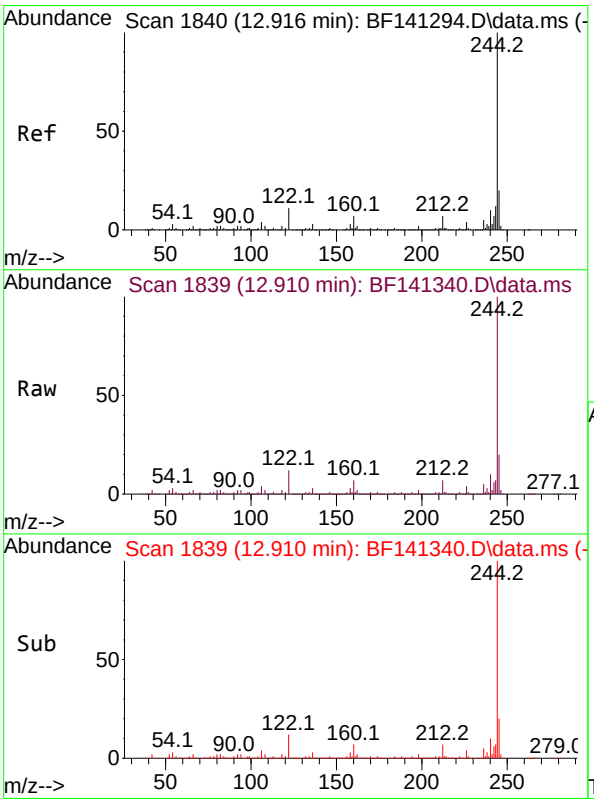
Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.7	14.3	21.5



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

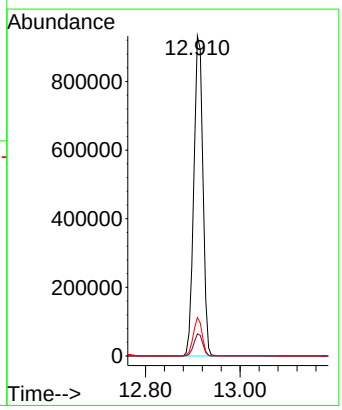
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

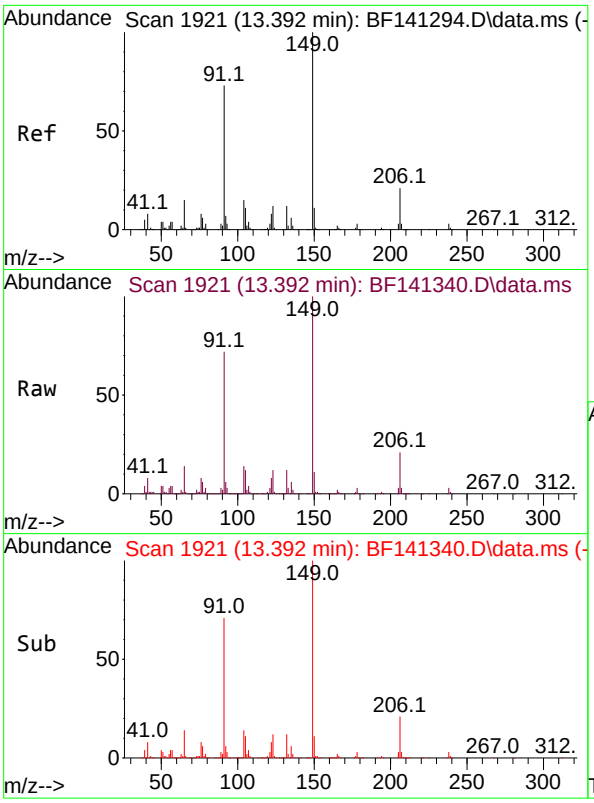


#79
Terphenyl-d14
Concen: 68.245 ng
RT: 12.910 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:244 Resp: 1237686

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	12.0	8.8	13.2

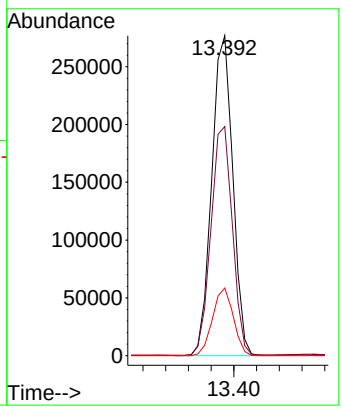




#80
Butylbenzylphthalate
Concen: 37.995 ng
RT: 13.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:149 Resp: 35637

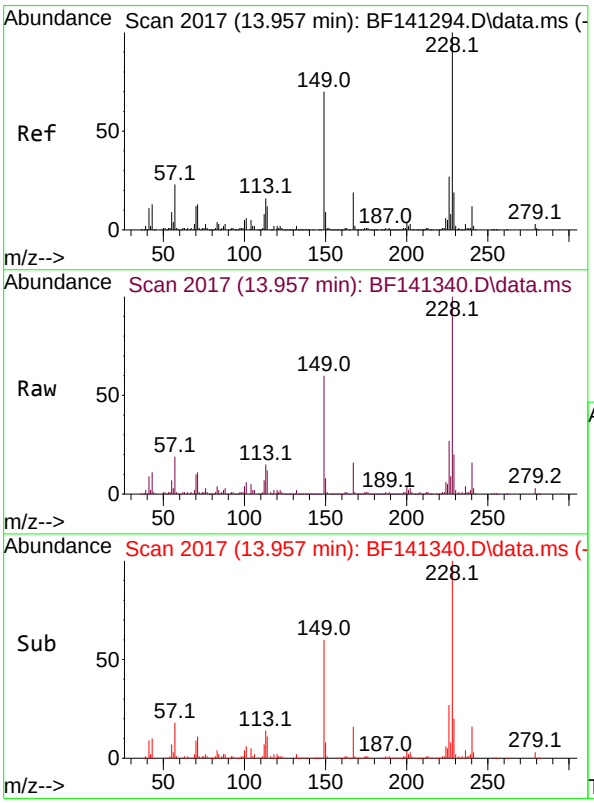
Ion	Ratio	Lower	Upper
149	100		
91	71.6	58.6	87.8
206	21.2	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

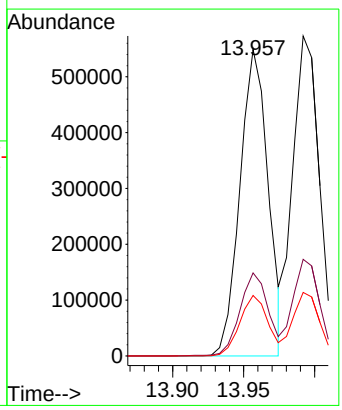
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

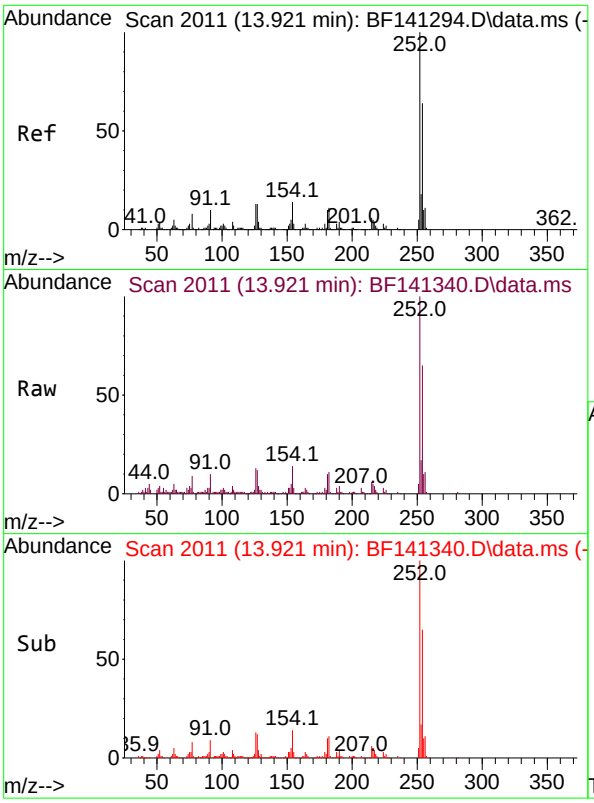


#81
Benzo(a)anthracene
Concen: 39.218 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:228 Resp: 756912

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.2
229	19.7	15.5	23.3





#82
3,3'-Dichlorobenzidine
Concen: 15.050 ng
RT: 13.921 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

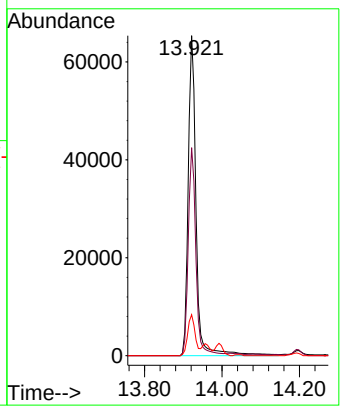
Tgt Ion:252 Resp: 9238

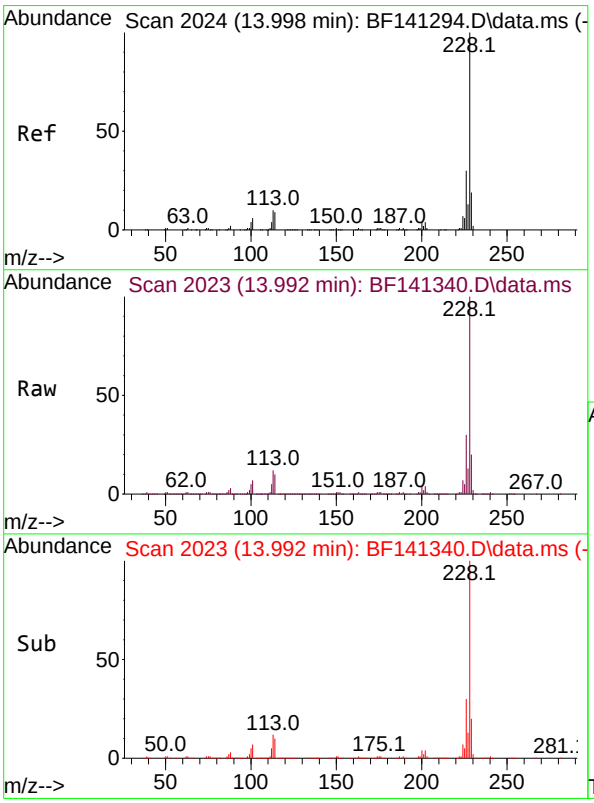
Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.3	76.9
126	12.8	10.0	15.0

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

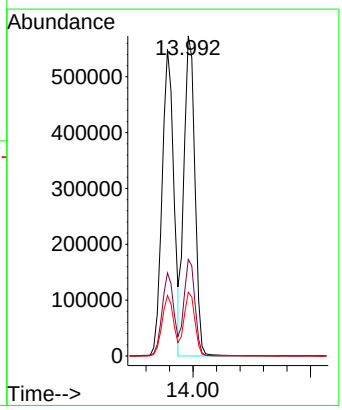


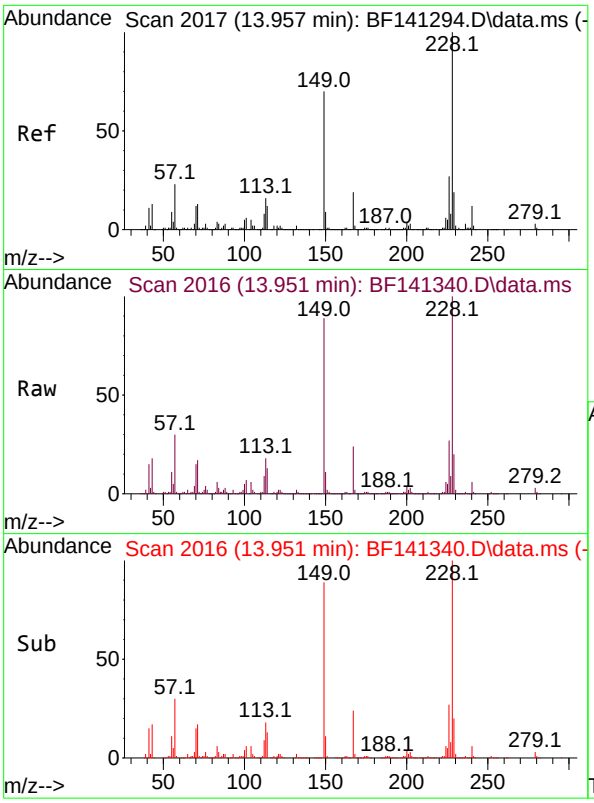


#83
Chrysene
Concen: 42.095 ng
RT: 13.992 min Scan# 2023
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:228 Resp: 744577

Ion	Ratio	Lower	Upper
228	100		
226	30.2	24.1	36.1
229	19.9	15.6	23.4





#84
Bis(2-ethylhexyl)phthalate
Concen: 40.723 ng
RT: 13.951 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

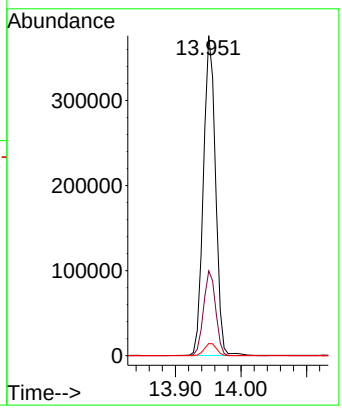
Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

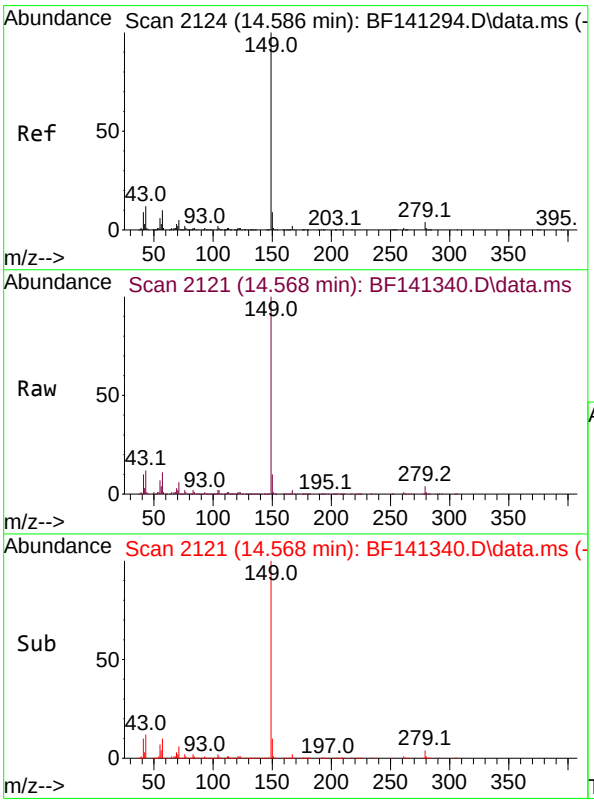
Tgt Ion:149 Resp: 48453

Ion	Ratio	Lower	Upper
149	100		
167	26.5	21.8	32.8
279	3.8	3.3	4.9

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

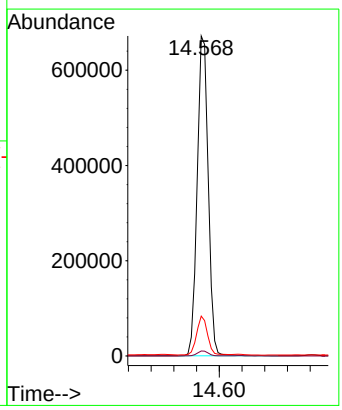


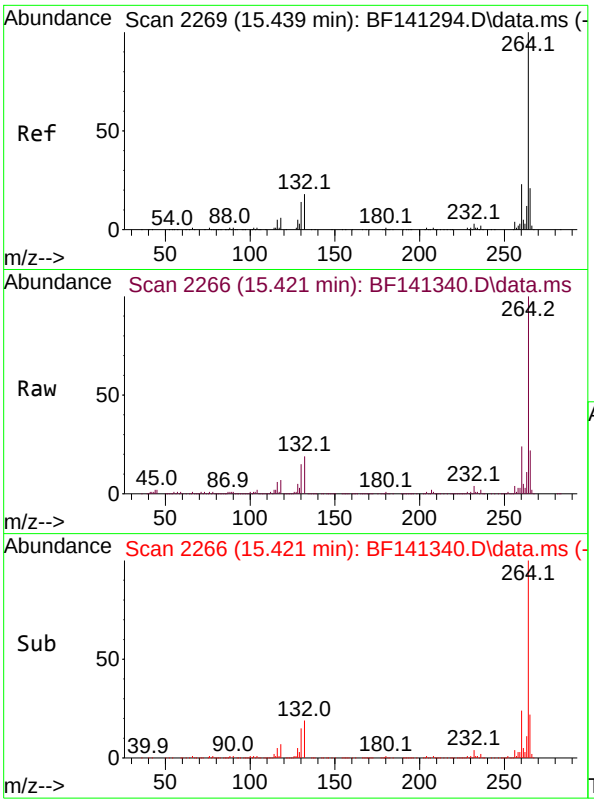


#85
Di-n-octyl phthalate
Concen: 49.152 ng
RT: 14.568 min Scan# 2121
Delta R.T. -0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:149 Resp: 908345

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.3	1.9
43	11.9	9.8	14.8

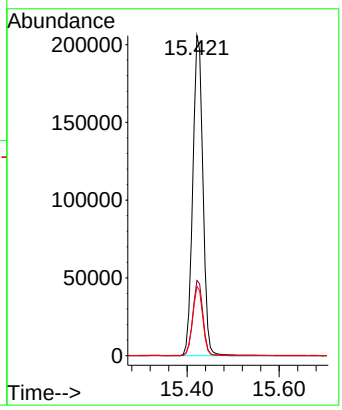




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:264 Resp: 31276

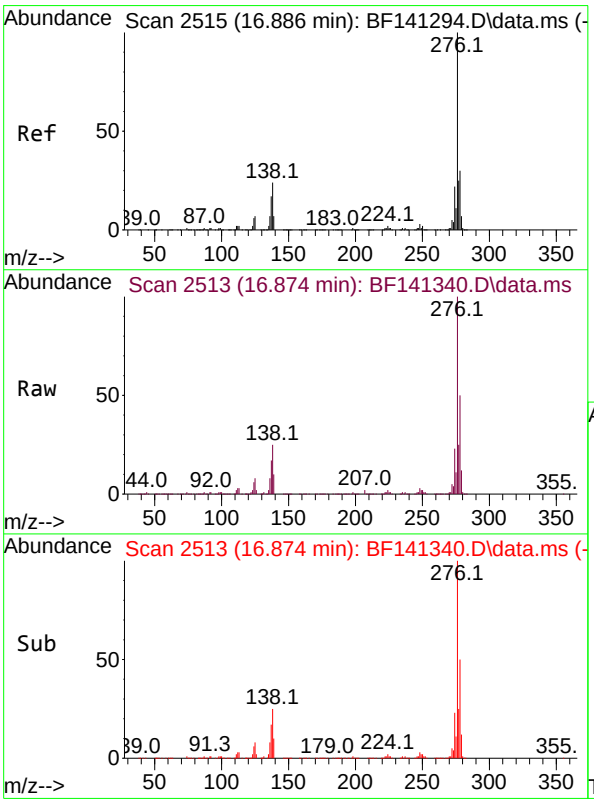
Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.6	27.8
265	21.7	16.7	25.1



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

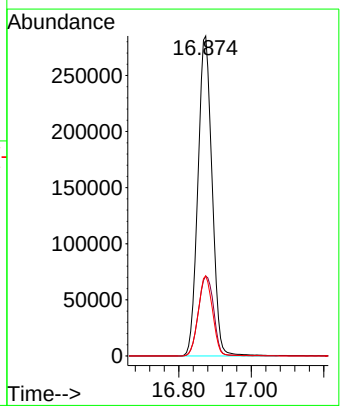
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

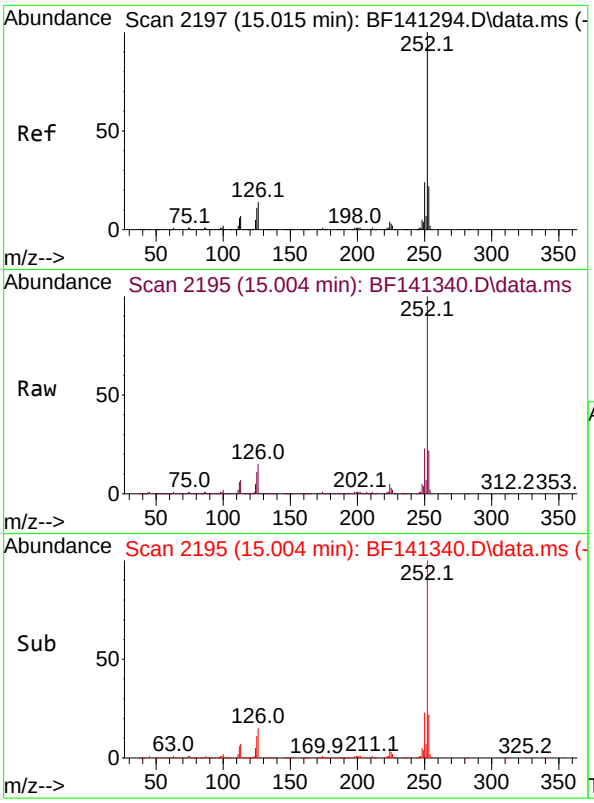


#87
Indeno(1,2,3-cd)pyrene
Concen: 38.276 ng
RT: 16.874 min Scan# 2513
Delta R.T. -0.024 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:276 Resp: 772651

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.7	32.5
277	25.3	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 46.793 ng
RT: 15.004 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

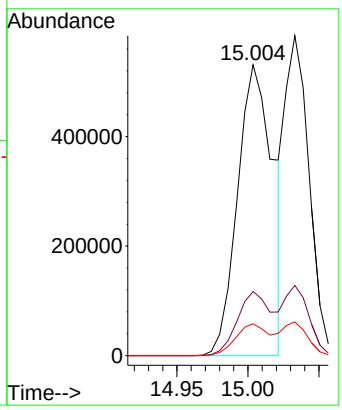
Tgt Ion:252 Resp: 92058

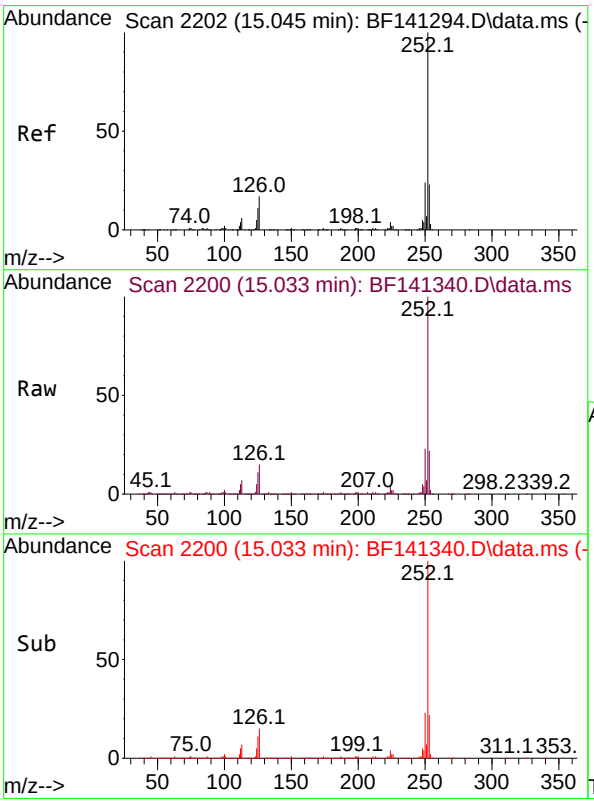
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.4	26.2
125	11.0	8.6	12.8

Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

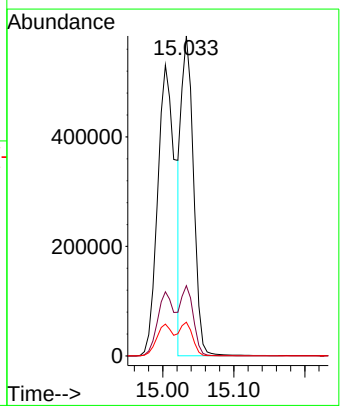


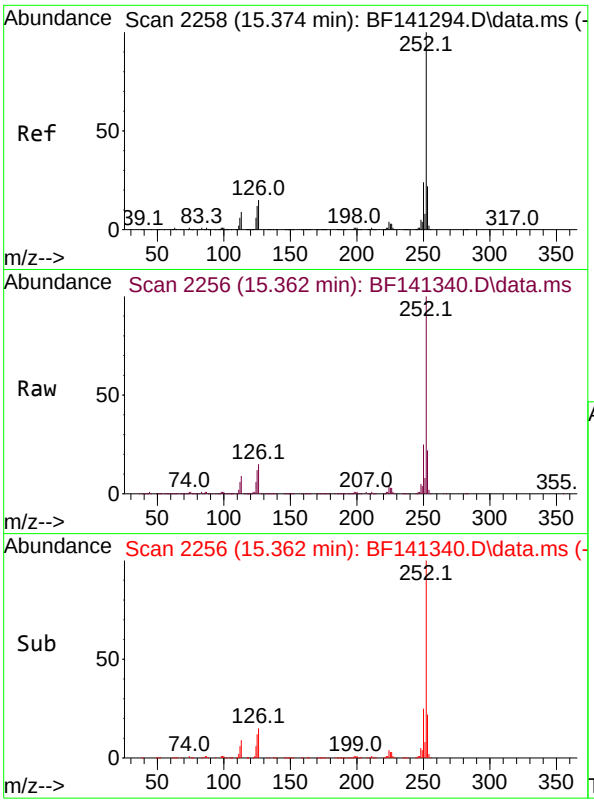


#89
Benzo(k)fluoranthene
Concen: 39.853 ng
RT: 15.033 min Scan# 2200
Delta R.T. -0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:252 Resp: 694577

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	10.6	8.4	12.6

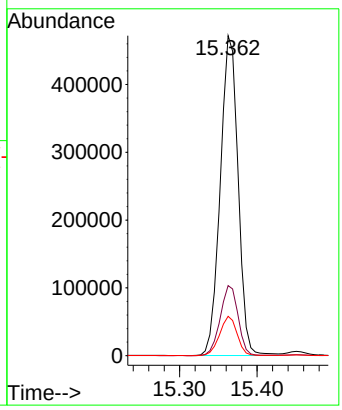




#90
Benzo(a)pyrene
Concen: 45.348 ng
RT: 15.362 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:252 Resp: 75391

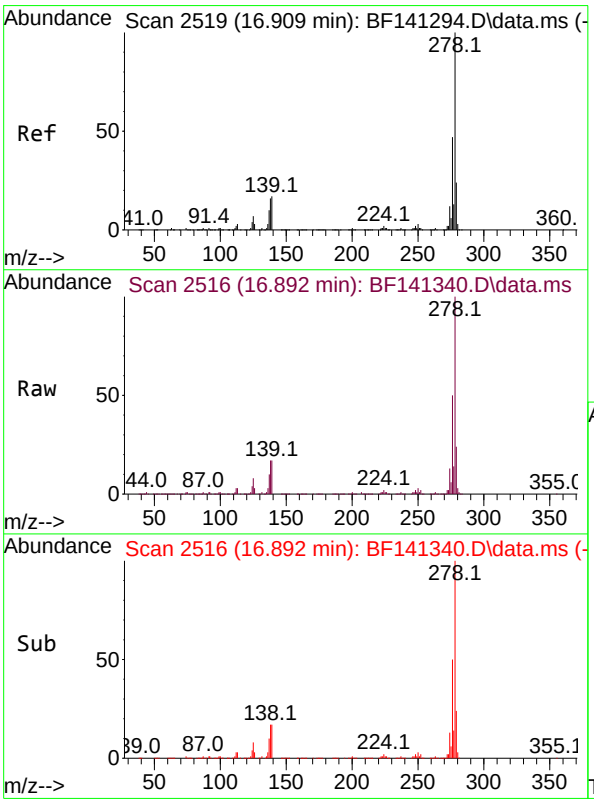
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.2	25.8
125	12.3	9.4	14.2



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

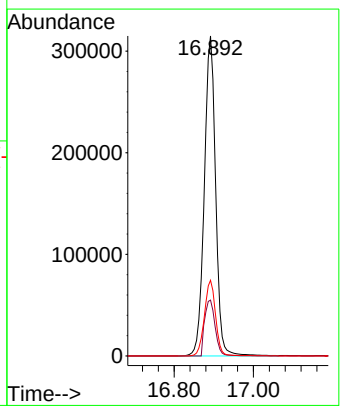
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

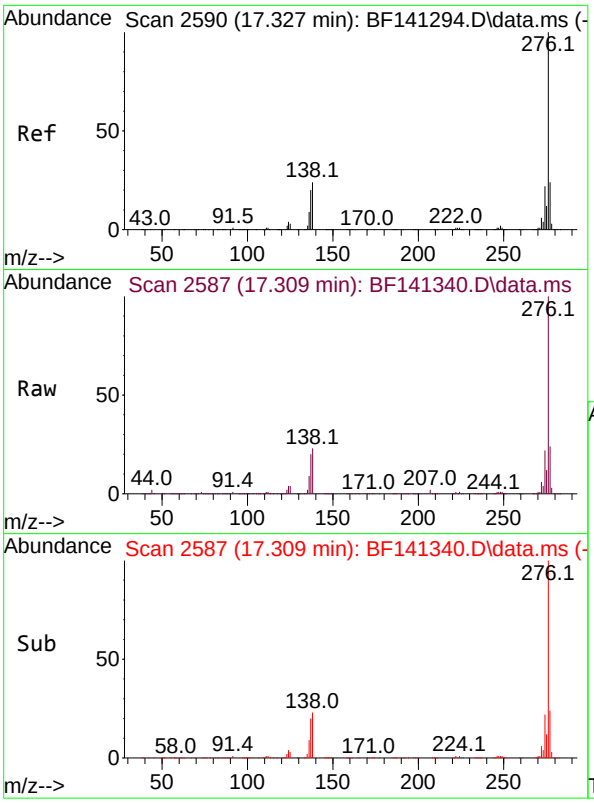


#91
Dibenzo(a,h)anthracene
Concen: 38.631 ng
RT: 16.892 min Scan# 2516
Delta R.T. -0.030 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:278 Resp: 627391

Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.9	20.9
279	23.6	18.8	28.2

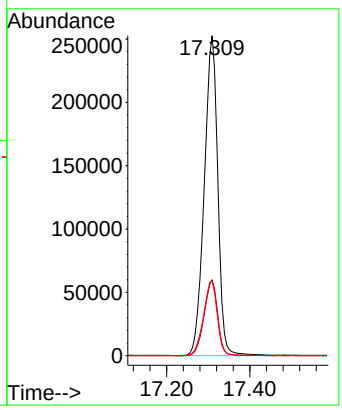




#92
Benzo(g,h,i)perylene
Concen: 33.950 ng
RT: 17.309 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF141340.D
Acq: 31 Jan 2025 19:11

Tgt Ion:276 Resp: 573319

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.2	28.8
138	23.4	19.0	28.4



Instrument :
BNA_F
ClientSampleId :
BELL-25-002MSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

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

Manual Integration Report

Sequence:	BF012925	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141292.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:04 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC020	BF141293.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:07 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC050	BF141295.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:10 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC060	BF141296.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:13 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC060	BF141296.D	Benzoic acid	yogesh	1/30/2025 7:49:13 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICV040	BF141298.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:17 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF013125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF141319.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:34:12 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
SSTDCCC040	BF141334.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:34:53 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
SSTDCCC040	BF141334.D	Benzoic acid	Jagrut	2/3/2025 3:34:53 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MS	BF141339.D	1,4-Dioxane	Jagrut	2/3/2025 3:35:01 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MS	BF141339.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:35:01 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MS	BF141339.D	Acenaphthene	Jagrut	2/3/2025 3:35:01 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MS	BF141339.D	Benzoic acid	Jagrut	2/3/2025 3:35:01 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MSD	BF141340.D	1,4-Dioxane	Jagrut	2/3/2025 3:35:05 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MSD	BF141340.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:35:05 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MSD	BF141340.D	Acenaphthene	Jagrut	2/3/2025 3:35:05 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1218-02MSD	BF141340.D	Benzoic acid	Jagrut	2/3/2025 3:35:05 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf020325	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF141361.D	2,4-Dimethylphenol	Jagrut	2/4/2025 4:42:01 PM	mohammad	2/6/2025 2:00:52 AM	Peak Integrated by Software
SSTDCCC040	BF141373.D	2,4-Dimethylphenol	Jagrut	2/4/2025 4:42:09 PM	mohammad	2/6/2025 2:00:52 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf020425	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF141398.D	2,4-Dimethylphenol	yogesh	2/5/2025 9:09:09 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
SSTDCCC040	BF141398.D	n-Nitrosodimethylamine	yogesh	2/5/2025 9:09:09 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
PB166426BS	BF141407.D	2,4-Dimethylphenol	yogesh	2/5/2025 9:09:16 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
PB166426BS	BF141407.D	Acenaphthene	yogesh	2/5/2025 9:09:16 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
PB166426BS	BF141407.D	Caprolactam	yogesh	2/5/2025 9:09:16 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
SSTDCCC040	BF141410.D	2,4-Dimethylphenol	yogesh	2/5/2025 9:09:18 AM	mohammad	2/5/2025 9:47:32 AM	Peak Integrated by Software
SSTDCCC040	BF141410.D	n-Nitrosodimethylamine	yogesh	2/5/2025 9:09:18 AM	mohammad	2/5/2025 9:47:32 AM	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 # BF012925

Review By	Jagrut	Review On	1/31/2025 4:39:47 PM				
Supervise By	mohammad	Supervise On	2/4/2025 7:21:59 AM				
SubDirectory	BF012925	HP Acquire Method	BNA_F		HP Processing Method	bf012925	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141289.D	29 Jan 2025 10:03	RC/JU	Ok
2	SSTDICC2.5	BF141290.D	29 Jan 2025 10:30	RC/JU	Ok
3	SSTDICC005	BF141291.D	29 Jan 2025 10:56	RC/JU	Ok
4	SSTDICC010	BF141292.D	29 Jan 2025 11:49	RC/JU	Ok,M
5	SSTDICC020	BF141293.D	29 Jan 2025 15:17	RC/JU	Ok,M
6	SSTDICCC040	BF141294.D	29 Jan 2025 15:45	RC/JU	Ok
7	SSTDICC050	BF141295.D	29 Jan 2025 16:11	RC/JU	Ok,M
8	SSTDICC060	BF141296.D	29 Jan 2025 16:38	RC/JU	Ok,M
9	SSTDICC080	BF141297.D	29 Jan 2025 17:05	RC/JU	Ok
10	SSTDICV040	BF141298.D	29 Jan 2025 17:31	RC/JU	Ok,M
11	PB166167BL	BF141299.D	29 Jan 2025 18:24	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 # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM				
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM				
SubDirectory	BF013125	HP Acquire Method	BNA_F			HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141318.D	31 Jan 2025 08:30	RC/JU	Ok
2	SSTDCCC040	BF141319.D	31 Jan 2025 09:22	RC/JU	Ok,M
3	PB166258BL	BF141320.D	31 Jan 2025 09:49	RC/JU	Ok
4	Q1168-03	BF141321.D	31 Jan 2025 10:15	RC/JU	Ok,M
5	Q1168-03	BF141322.D	31 Jan 2025 10:42	RC/JU	Ok,M
6	Q1168-09	BF141323.D	31 Jan 2025 11:08	RC/JU	Ok,M
7	Q1168-09	BF141324.D	31 Jan 2025 11:35	RC/JU	Ok,M
8	PB166363BL	BF141325.D	31 Jan 2025 12:01	RC/JU	Ok
9	PB166363BS	BF141326.D	31 Jan 2025 12:28	RC/JU	Ok,M
10	PB166363BSD	BF141327.D	31 Jan 2025 12:54	RC/JU	Ok,M
11	Q1211-01	BF141328.D	31 Jan 2025 13:27	RC/JU	Ok
12	Q1211-02	BF141329.D	31 Jan 2025 13:53	RC/JU	Ok
13	Q1209-04	BF141330.D	31 Jan 2025 14:20	RC/JU	Ok
14	Q1209-08	BF141331.D	31 Jan 2025 14:46	RC/JU	Ok
15	Q1205-02	BF141332.D	31 Jan 2025 15:13	RC/JU	Ok
16	Q1205-01	BF141333.D	31 Jan 2025 15:39	RC/JU	Ok,M
17	SSTDCCC040	BF141334.D	31 Jan 2025 16:26	RC/JU	Ok,M
18	DFTPP	BF141335.D	31 Jan 2025 16:53	RC/JU	Ok
19	SSTDCCC040	BF141336.D	31 Jan 2025 17:19	RC/JU	Ok
20	PB166354BL	BF141337.D	31 Jan 2025 17:46	RC/JU	Ok
21	Q1218-02	BF141338.D	31 Jan 2025 18:18	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 # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM				
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM				
SubDirectory	BF013125	HP Acquire Method	BNA_F		HP Processing Method	bf012925	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1218-02MS	BF141339.D	31 Jan 2025 18:44	RC/JU	Ok,M
23	Q1218-02MSD	BF141340.D	31 Jan 2025 19:11	RC/JU	Ok,M
24	Q1219-02	BF141341.D	31 Jan 2025 19:37	RC/JU	Ok,M
25	Q1221-02	BF141342.D	31 Jan 2025 20:04	RC/JU	Ok
26	Q1221-01	BF141343.D	31 Jan 2025 20:30	RC/JU	Ok
27	Q1239-10	BF141344.D	31 Jan 2025 20:56	RC/JU	Ok
28	Q1239-10MS	BF141345.D	31 Jan 2025 21:23	RC/JU	Ok,M
29	Q1239-10MSD	BF141346.D	31 Jan 2025 21:50	RC/JU	Ok,M
30	Q1205-02MS	BF141347.D	31 Jan 2025 22:16	RC/JU	Ok,M
31	Q1205-02MSD	BF141348.D	31 Jan 2025 22:43	RC/JU	Ok,M
32	Q1194-01	BF141349.D	31 Jan 2025 23:10	RC/JU	Ok
33	Q1194-02	BF141350.D	31 Jan 2025 23:37	RC/JU	Ok
34	Q1194-04	BF141351.D	01 Feb 2025 00:03	RC/JU	Ok
35	Q1194-04MS	BF141352.D	01 Feb 2025 00:30	RC/JU	Ok,M
36	Q1194-04MSD	BF141353.D	01 Feb 2025 00:57	RC/JU	Ok,M
37	Q1239-07	BF141354.D	01 Feb 2025 01:24	RC/JU	Ok,M
38	Q1239-04	BF141355.D	01 Feb 2025 01:51	RC/JU	Ok,M
39	Q1243-01	BF141356.D	01 Feb 2025 02:17	RC/JU	Ok
40	Q1220-01	BF141357.D	01 Feb 2025 02:44	RC/JU	Ok,M
41	Q1244-01	BF141358.D	01 Feb 2025 03:11	RC/JU	Ok,M
42	Q1239-01	BF141359.D	01 Feb 2025 03:37	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020325

Review By	Jagrut	Review On	2/4/2025 4:42:42 PM				
Supervise By	mohammad	Supervise On	2/6/2025 2:00:52 AM				
SubDirectory	BF020325	HP Acquire Method	BNA_F			HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141360.D	03 Feb 2025 09:53	RC/JU	Ok
2	SSTDCCC040	BF141361.D	03 Feb 2025 11:24	RC/JU	Ok,M
3	PB166426BL	BF141362.D	03 Feb 2025 11:51	RC/JU	Ok
4	PB166468BS	BF141363.D	03 Feb 2025 12:18	RC/JU	Not Ok
5	PB166468BSD	BF141364.D	03 Feb 2025 12:44	RC/JU	Not Ok
6	PB166468BL	BF141365.D	03 Feb 2025 13:10	RC/JU	Not Ok
7	Q1214-01	BF141366.D	03 Feb 2025 13:41	RC/JU	ReRun
8	Q1194-08	BF141367.D	03 Feb 2025 14:08	RC/JU	Ok
9	Q1239-02	BF141368.D	03 Feb 2025 14:34	RC/JU	Ok
10	Q1239-05	BF141369.D	03 Feb 2025 15:00	RC/JU	Ok
11	Q1239-08	BF141370.D	03 Feb 2025 15:26	RC/JU	Ok
12	Q1239-11	BF141371.D	03 Feb 2025 15:52	RC/JU	Ok
13	DFTPP	BF141372.D	03 Feb 2025 16:43	RC/JU	Ok
14	SSTDCCC040	BF141373.D	03 Feb 2025 17:14	RC/JU	Ok,M
15	PB166335BL	BF141374.D	03 Feb 2025 17:41	RC/JU	Ok
16	Q1216-12	BF141375.D	03 Feb 2025 18:12	RC/JU	Ok
17	Q1216-16	BF141376.D	03 Feb 2025 18:38	RC/JU	Ok
18	Q1216-20	BF141377.D	03 Feb 2025 19:04	RC/JU	Ok
19	Q1235-04	BF141378.D	03 Feb 2025 19:31	RC/JU	Ok
20	Q1235-08	BF141379.D	03 Feb 2025 19:57	RC/JU	Ok
21	Q1232-04	BF141380.D	03 Feb 2025 20:24	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 # BF020325

Review By	Jagrut	Review On	2/4/2025 4:42:42 PM				
Supervise By	mohammad	Supervise On	2/6/2025 2:00:52 AM				
SubDirectory	BF020325	HP Acquire Method	BNA_F			HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1232-08	BF141381.D	03 Feb 2025 20:51	RC/JU	Ok
23	Q1232-12	BF141382.D	03 Feb 2025 21:17	RC/JU	Ok
24	Q1232-16	BF141383.D	03 Feb 2025 21:44	RC/JU	Ok
25	Q1232-20	BF141384.D	03 Feb 2025 22:11	RC/JU	Ok
26	Q1269-01	BF141385.D	03 Feb 2025 22:37	RC/JU	Ok
27	Q1271-01	BF141386.D	03 Feb 2025 23:04	RC/JU	Ok
28	Q1271-01MS	BF141387.D	03 Feb 2025 23:30	RC/JU	Ok,M
29	Q1271-01MSD	BF141388.D	03 Feb 2025 23:56	RC/JU	Ok,M
30	Q1262-01	BF141389.D	04 Feb 2025 00:23	RC/JU	Dilution
31	Q1232-03	BF141390.D	04 Feb 2025 00:49	RC/JU	Dilution
32	Q1216-19	BF141391.D	04 Feb 2025 01:16	RC/JU	Ok,M
33	Q1216-11	BF141392.D	04 Feb 2025 01:42	RC/JU	Ok,M
34	Q1219-01	BF141393.D	04 Feb 2025 02:09	RC/JU	Ok
35	Q1261-01	BF141394.D	04 Feb 2025 02:35	RC/JU	Ok
36	Q1218-01	BF141395.D	04 Feb 2025 03:01	RC/JU	Ok
37	Q1254-01	BF141396.D	04 Feb 2025 03:28	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020425

Review By	yogesh	Review On	2/5/2025 9:10:01 AM				
Supervise By	mohammad	Supervise On	2/5/2025 9:47:32 AM				
SubDirectory	BF020425	HP Acquire Method	BNA_F		HP Processing Method	bf012925	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141397.D	04 Feb 2025 10:16	RC/JU	Ok
2	SSTDCCC040	BF141398.D	04 Feb 2025 10:42	RC/JU	Ok,M
3	PB166483BL	BF141399.D	04 Feb 2025 11:08	RC/JU	Ok
4	PB166483BS	BF141400.D	04 Feb 2025 11:35	RC/JU	Ok,M
5	PB166423TB	BF141401.D	04 Feb 2025 12:02	RC/JU	Ok
6	PB166465BS	BF141402.D	04 Feb 2025 12:28	RC/JU	Ok,M
7	PB166465BL	BF141403.D	04 Feb 2025 12:54	RC/JU	Ok
8	PB166360BL	BF141404.D	04 Feb 2025 13:21	RC/JU	Ok
9	PB166360BS	BF141405.D	04 Feb 2025 13:47	RC/JU	Ok,M
10	PB166356TB	BF141406.D	04 Feb 2025 14:13	RC/JU	Ok
11	PB166426BS	BF141407.D	04 Feb 2025 14:39	RC/JU	Ok,M
12	PB166294BL	BF141408.D	04 Feb 2025 15:06	RC/JU	Ok
13	DFTPP	BF141409.D	04 Feb 2025 15:32	RC/JU	Ok
14	SSTDCCC040	BF141410.D	04 Feb 2025 15:58	RC/JU	Ok,M
15	PB166525BL	BF141411.D	04 Feb 2025 16:24	RC/JU	Ok
16	Q1262-03	BF141412.D	04 Feb 2025 16:56	RC/JU	Ok
17	Q1239-02MS	BF141413.D	04 Feb 2025 17:22	RC/JU	Ok,M
18	Q1239-02MSD	BF141414.D	04 Feb 2025 17:49	RC/JU	Ok,M
19	Q1241-08	BF141415.D	04 Feb 2025 18:15	RC/JU	Ok
20	Q1241-12	BF141416.D	04 Feb 2025 18:41	RC/JU	Ok,M
21	Q1241-16	BF141417.D	04 Feb 2025 19:07	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 # BF020425

Review By	yogesh	Review On	2/5/2025 9:10:01 AM		
Supervise By	mohammad	Supervise On	2/5/2025 9:47:32 AM		
SubDirectory	BF020425	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1241-20	BF141418.D	04 Feb 2025 19:34	RC/JU	Ok
23	Q1242-04	BF141419.D	04 Feb 2025 20:00	RC/JU	Ok
24	Q1241-04	BF141420.D	04 Feb 2025 20:26	RC/JU	Ok
25	Q1216-08	BF141421.D	04 Feb 2025 20:52	RC/JU	Ok
26	Q1206-04	BF141422.D	04 Feb 2025 21:19	RC/JU	Ok
27	Q1206-08	BF141423.D	04 Feb 2025 21:45	RC/JU	Ok
28	Q1194-03	BF141424.D	04 Feb 2025 22:11	RC/JU	Ok,M
29	Q1262-01DL	BF141425.D	04 Feb 2025 22:38	RC/JU	Ok,M
30	Q1232-03DL	BF141426.D	04 Feb 2025 23:04	RC/JU	Ok,M
31	Q1280-01	BF141427.D	04 Feb 2025 23:30	RC/JU	Ok,M
32	Q1280-01MS	BF141428.D	04 Feb 2025 23:56	RC/JU	Ok,M
33	Q1280-01MSD	BF141429.D	05 Feb 2025 00:22	RC/JU	Ok,M
34	Q1276-01	BF141430.D	05 Feb 2025 00:48	RC/JU	Ok,M
35	Q1277-02	BF141431.D	05 Feb 2025 01:15	RC/JU	Ok
36	Q1281-01	BF141432.D	05 Feb 2025 01:41	RC/JU	Ok,M
37	Q1241-07	BF141433.D	05 Feb 2025 02:07	RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF012925

Review By	Jagrut	Review On	1/31/2025 4:39:47 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:21:59 AM		
SubDirectory	BF012925	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141289.D	29 Jan 2025 10:03		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141290.D	29 Jan 2025 10:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141291.D	29 Jan 2025 10:56	Compound #54 is removed from 5ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141292.D	29 Jan 2025 11:49		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141293.D	29 Jan 2025 15:17	The Calibration is fail for compound #77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141294.D	29 Jan 2025 15:45	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141295.D	29 Jan 2025 16:11		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF141296.D	29 Jan 2025 16:38		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF141297.D	29 Jan 2025 17:05		RC/JU	Ok
10	SSTDICV040	ICVBF012925	BF141298.D	29 Jan 2025 17:31		RC/JU	Ok,M
11	PB166167BL	PB166167BL	BF141299.D	29 Jan 2025 18:24		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 # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM		
SubDirectory	BF013125	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141318.D	31 Jan 2025 08:30		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141319.D	31 Jan 2025 09:22		RC/JU	Ok,M
3	PB166258BL	PB166258BL	BF141320.D	31 Jan 2025 09:49		RC/JU	Ok
4	Q1168-03	MDL-SOIL-03-QT1-202	BF141321.D	31 Jan 2025 10:15	MDL-SOIL-4PPM	RC/JU	Ok,M
5	Q1168-03	MDL-SOIL-03-QT1-202	BF141322.D	31 Jan 2025 10:42	MDL-SOIL-8PPM	RC/JU	Ok,M
6	Q1168-09	MDL-WATER-03-QT1-2	BF141323.D	31 Jan 2025 11:08	MDL-WATER-4PPM	RC/JU	Ok,M
7	Q1168-09	MDL-WATER-03-QT1-2	BF141324.D	31 Jan 2025 11:35	MDL-WATER-03-8PPM	RC/JU	Ok,M
8	PB166363BL	PB166363BL	BF141325.D	31 Jan 2025 12:01		RC/JU	Ok
9	PB166363BS	PB166363BS	BF141326.D	31 Jan 2025 12:28		RC/JU	Ok,M
10	PB166363BSD	PB166363BSD	BF141327.D	31 Jan 2025 12:54		RC/JU	Ok,M
11	Q1211-01	TAPHHA-MW01-01282	BF141328.D	31 Jan 2025 13:27		RC/JU	Ok
12	Q1211-02	TAPIAL2-MW03-01282	BF141329.D	31 Jan 2025 13:53		RC/JU	Ok
13	Q1209-04	WC-4	BF141330.D	31 Jan 2025 14:20		RC/JU	Ok
14	Q1209-08	WC-5	BF141331.D	31 Jan 2025 14:46		RC/JU	Ok
15	Q1205-02	VNJ-236	BF141332.D	31 Jan 2025 15:13		RC/JU	Ok
16	Q1205-01	VNJ-236	BF141333.D	31 Jan 2025 15:39		RC/JU	Ok,M
17	SSTDCCC040	SSTDCCC040EC	BF141334.D	31 Jan 2025 16:26		RC/JU	Ok,M
18	DFTPP	DFTPP	BF141335.D	31 Jan 2025 16:53		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 # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM		
SubDirectory	BF013125	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC040	SSTDCCC040	BF141336.D	31 Jan 2025 17:19		RC/JU	Ok
20	PB166354BL	PB166354BL	BF141337.D	31 Jan 2025 17:46		RC/JU	Ok
21	Q1218-02	BELL-25-002	BF141338.D	31 Jan 2025 18:18		RC/JU	Ok,M
22	Q1218-02MS	BELL-25-002MS	BF141339.D	31 Jan 2025 18:44		RC/JU	Ok,M
23	Q1218-02MSD	BELL-25-002MSD	BF141340.D	31 Jan 2025 19:11		RC/JU	Ok,M
24	Q1219-02	LAW-25-0015	BF141341.D	31 Jan 2025 19:37		RC/JU	Ok,M
25	Q1221-02	CHESTNUT-CONCRE	BF141342.D	31 Jan 2025 20:04		RC/JU	Ok
26	Q1221-01	CHESTNUT-CONCRE	BF141343.D	31 Jan 2025 20:30		RC/JU	Ok
27	Q1239-10	357	BF141344.D	31 Jan 2025 20:56		RC/JU	Ok
28	Q1239-10MS	357MS	BF141345.D	31 Jan 2025 21:23		RC/JU	Ok,M
29	Q1239-10MSD	357MSD	BF141346.D	31 Jan 2025 21:50		RC/JU	Ok,M
30	Q1205-02MS	VNJ-236MS	BF141347.D	31 Jan 2025 22:16		RC/JU	Ok,M
31	Q1205-02MSD	VNJ-236MSD	BF141348.D	31 Jan 2025 22:43		RC/JU	Ok,M
32	Q1194-01	B-110-SB01	BF141349.D	31 Jan 2025 23:10		RC/JU	Ok
33	Q1194-02	B-110-SB02	BF141350.D	31 Jan 2025 23:37		RC/JU	Ok
34	Q1194-04	B-113-SB02	BF141351.D	01 Feb 2025 00:03		RC/JU	Ok
35	Q1194-04MS	B-113-SB02MS	BF141352.D	01 Feb 2025 00:30		RC/JU	Ok,M
36	Q1194-04MSD	B-113-SB02MSD	BF141353.D	01 Feb 2025 00:57		RC/JU	Ok,M
37	Q1239-07	RBR22266	BF141354.D	01 Feb 2025 01:24		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 # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM		
SubDirectory	BF013125	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	Q1239-04	348	BF141355.D	01 Feb 2025 01:51		RC/JU	Ok,M
39	Q1243-01	CL-01-01302025	BF141356.D	01 Feb 2025 02:17		RC/JU	Ok
40	Q1220-01	TR-06-01292025	BF141357.D	01 Feb 2025 02:44		RC/JU	Ok,M
41	Q1244-01	EO-02-01302025	BF141358.D	01 Feb 2025 03:11	Internal Standard Fail	RC/JU	Ok,M
42	Q1239-01	286	BF141359.D	01 Feb 2025 03:37		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020325

Review By	Jagrut	Review On	2/4/2025 4:42:42 PM		
Supervise By	mohammad	Supervise On	2/6/2025 2:00:52 AM		
SubDirectory	BF020325	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141360.D	03 Feb 2025 09:53		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141361.D	03 Feb 2025 11:24		RC/JU	Ok,M
3	PB166426BL	PB166426BL	BF141362.D	03 Feb 2025 11:51		RC/JU	Ok
4	PB166468BS	PB166468BS	BF141363.D	03 Feb 2025 12:18	Com#77(Benzidine) Failed in the calibration	RC/JU	Not Ok
5	PB166468BSD	PB166468BSD	BF141364.D	03 Feb 2025 12:44	Com#77(Benzidine) Failed in the calibration	RC/JU	Not Ok
6	PB166468BL	PB166468BL	BF141365.D	03 Feb 2025 13:10	Com#77(Benzidine) Failed in the calibration	RC/JU	Not Ok
7	Q1214-01	PARAMUS-CONDENS/	BF141366.D	03 Feb 2025 13:41	Surrogate Fail,Com#77(Benzidine) Failed in the calibration	RC/JU	ReRun
8	Q1194-08	EB	BF141367.D	03 Feb 2025 14:08		RC/JU	Ok
9	Q1239-02	286	BF141368.D	03 Feb 2025 14:34		RC/JU	Ok
10	Q1239-05	348	BF141369.D	03 Feb 2025 15:00		RC/JU	Ok
11	Q1239-08	RBR22266	BF141370.D	03 Feb 2025 15:26		RC/JU	Ok
12	Q1239-11	357	BF141371.D	03 Feb 2025 15:52		RC/JU	Ok
13	DFTPP	DFTPP	BF141372.D	03 Feb 2025 16:43		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF141373.D	03 Feb 2025 17:14		RC/JU	Ok,M
15	PB166335BL	PB166335BL	BF141374.D	03 Feb 2025 17:41		RC/JU	Ok
16	Q1216-12	JPP-21.2-012825	BF141375.D	03 Feb 2025 18:12		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 # BF020325

Review By	Jagrut	Review On	2/4/2025 4:42:42 PM		
Supervise By	mohammad	Supervise On	2/6/2025 2:00:52 AM		
SubDirectory	BF020325	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	Q1216-16	JPP-26.1-012825	BF141376.D	03 Feb 2025 18:38		RC/JU	Ok
18	Q1216-20	JPP-26.2-012825	BF141377.D	03 Feb 2025 19:04		RC/JU	Ok
19	Q1235-04	JPP-51.2-012925	BF141378.D	03 Feb 2025 19:31		RC/JU	Ok
20	Q1235-08	JPP-16.1-012925	BF141379.D	03 Feb 2025 19:57		RC/JU	Ok
21	Q1232-04	JPP-46.2-012925	BF141380.D	03 Feb 2025 20:24		RC/JU	Ok
22	Q1232-08	JPP-46.1-012925	BF141381.D	03 Feb 2025 20:51		RC/JU	Ok
23	Q1232-12	JPP-42.1-012925	BF141382.D	03 Feb 2025 21:17		RC/JU	Ok
24	Q1232-16	JPP-42.2-012925	BF141383.D	03 Feb 2025 21:44		RC/JU	Ok
25	Q1232-20	JPP-51.1-012925	BF141384.D	03 Feb 2025 22:11		RC/JU	Ok
26	Q1269-01	VNJ-231	BF141385.D	03 Feb 2025 22:37		RC/JU	Ok
27	Q1271-01	RBR200030	BF141386.D	03 Feb 2025 23:04		RC/JU	Ok
28	Q1271-01MS	RBR200030MS	BF141387.D	03 Feb 2025 23:30		RC/JU	Ok,M
29	Q1271-01MSD	RBR200030MSD	BF141388.D	03 Feb 2025 23:56		RC/JU	Ok,M
30	Q1262-01	ETGI-371	BF141389.D	04 Feb 2025 00:23	Need 5X Dilution	RC/JU	Dilution
31	Q1232-03	JPP-46.2-012925	BF141390.D	04 Feb 2025 00:49	Need 5X Dilution	RC/JU	Dilution
32	Q1216-19	JPP-26.2-012825	BF141391.D	04 Feb 2025 01:16		RC/JU	Ok,M
33	Q1216-11	JPP-21.2-012825	BF141392.D	04 Feb 2025 01:42	Internal Standard Fail	RC/JU	Ok,M
34	Q1219-01	LAW-25-0015	BF141393.D	04 Feb 2025 02:09	Internal Standard Fail	RC/JU	Ok
35	Q1261-01	CHRT-20430	BF141394.D	04 Feb 2025 02:35	Internal Standard Fail	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 # BF020325

Review By	Jagrut	Review On	2/4/2025 4:42:42 PM		
Supervise By	mohammad	Supervise On	2/6/2025 2:00:52 AM		
SubDirectory	BF020325	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	Q1218-01	BELL-25-002	BF141395.D	04 Feb 2025 03:01	Internal Standard Fail	RC/JU	Ok
37	Q1254-01	OK-02-01312025	BF141396.D	04 Feb 2025 03:28		RC/JU	Ok,M

M : Manual Integration

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF020425

Review By	yogesh	Review On	2/5/2025 9:10:01 AM		
Supervise By	mohammad	Supervise On	2/5/2025 9:47:32 AM		
SubDirectory	BF020425	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141397.D	04 Feb 2025 10:16		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141398.D	04 Feb 2025 10:42		RC/JU	Ok,M
3	PB166483BL	PB166483BL	BF141399.D	04 Feb 2025 11:08		RC/JU	Ok
4	PB166483BS	PB166483BS	BF141400.D	04 Feb 2025 11:35		RC/JU	Ok,M
5	PB166423TB	PB166423TB	BF141401.D	04 Feb 2025 12:02		RC/JU	Ok
6	PB166465BS	PB166465BS	BF141402.D	04 Feb 2025 12:28		RC/JU	Ok,M
7	PB166465BL	PB166465BL	BF141403.D	04 Feb 2025 12:54		RC/JU	Ok
8	PB166360BL	PB166360BL	BF141404.D	04 Feb 2025 13:21		RC/JU	Ok
9	PB166360BS	PB166360BS	BF141405.D	04 Feb 2025 13:47		RC/JU	Ok,M
10	PB166356TB	PB166356TB	BF141406.D	04 Feb 2025 14:13		RC/JU	Ok
11	PB166426BS	PB166426BS	BF141407.D	04 Feb 2025 14:39		RC/JU	Ok,M
12	PB166294BL	PB166294BL	BF141408.D	04 Feb 2025 15:06		RC/JU	Ok
13	DFTPP	DFTPP	BF141409.D	04 Feb 2025 15:32		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF141410.D	04 Feb 2025 15:58		RC/JU	Ok,M
15	PB166525BL	PB166525BL	BF141411.D	04 Feb 2025 16:24		RC/JU	Ok
16	Q1262-03	CONCRETE-PAD	BF141412.D	04 Feb 2025 16:56		RC/JU	Ok
17	Q1239-02MS	286MS	BF141413.D	04 Feb 2025 17:22		RC/JU	Ok,M
18	Q1239-02MSD	286MSD	BF141414.D	04 Feb 2025 17:49		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 # BF020425

Review By	yogesh	Review On	2/5/2025 9:10:01 AM		
Supervise By	mohammad	Supervise On	2/5/2025 9:47:32 AM		
SubDirectory	BF020425	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1241-08	JPP-5.3-013025	BF141415.D	04 Feb 2025 18:15		RC/JU	Ok
20	Q1241-12	JPP-5.2-013025	BF141416.D	04 Feb 2025 18:41		RC/JU	Ok,M
21	Q1241-16	JPP-5.4-013025	BF141417.D	04 Feb 2025 19:07		RC/JU	Ok
22	Q1241-20	JPP-51.4-013025	BF141418.D	04 Feb 2025 19:34		RC/JU	Ok
23	Q1242-04	JPP-6.2-013025	BF141419.D	04 Feb 2025 20:00		RC/JU	Ok
24	Q1241-04	JPP-3.5-013025	BF141420.D	04 Feb 2025 20:26		RC/JU	Ok
25	Q1216-08	JPP-21.1-012825	BF141421.D	04 Feb 2025 20:52		RC/JU	Ok
26	Q1206-04	JPP-20.1-012725	BF141422.D	04 Feb 2025 21:19		RC/JU	Ok
27	Q1206-08	JPP-16.3-012725	BF141423.D	04 Feb 2025 21:45		RC/JU	Ok
28	Q1194-03	B-113-SB01	BF141424.D	04 Feb 2025 22:11		RC/JU	Ok,M
29	Q1262-01DL	ETGI-371DL	BF141425.D	04 Feb 2025 22:38		RC/JU	Ok,M
30	Q1232-03DL	JPP-46.2-012925DL	BF141426.D	04 Feb 2025 23:04		RC/JU	Ok,M
31	Q1280-01	72-11984	BF141427.D	04 Feb 2025 23:30		RC/JU	Ok,M
32	Q1280-01MS	72-11984MS	BF141428.D	04 Feb 2025 23:56		RC/JU	Ok,M
33	Q1280-01MSD	72-11984MSD	BF141429.D	05 Feb 2025 00:22		RC/JU	Ok,M
34	Q1276-01	TR-05-020325	BF141430.D	05 Feb 2025 00:48		RC/JU	Ok,M
35	Q1277-02	RT 3249	BF141431.D	05 Feb 2025 01:15		RC/JU	Ok
36	Q1281-01	OR-02--2-03-2025	BF141432.D	05 Feb 2025 01:41		RC/JU	Ok,M
37	Q1241-07	JPP-5.3-013025	BF141433.D	05 Feb 2025 02:07		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 # BF020425

Review By	yogesh	Review On	2/5/2025 9:10:01 AM		
Supervise By	mohammad	Supervise On	2/5/2025 9:47:32 AM		
SubDirectory	BF020425	HP Acquire Method	BNA_F	HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166356

SOP ID : M1311-TCLP-15

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 : 114771

Start Prep Date : 01/30/2025 **Time :** 14:00

End Prep Date : 01/31/2025 **Time :** 07:15

Combination Ratio : 20

ZHE Cleaning Batch : N/A

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : JZ

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	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W1937,W1938,W1939,W1940,W1941,W1942
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
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. p1235-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25 09:45	JP / TCLP Room	SKG. & TCL
	Preparation Group	**Analysis Group** & lab mng.

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB166356

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
PB166356TB	LEB356	N/A	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-2
Q1215-04	JPP-29.1-012825	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-1
Q1215-08	JPP-29.2-012825	02	100.03	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1216-04	JPP-18.1-012825	03	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1216-08	JPP-21.1-012825	04	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1216-12	JPP-21.2-012825	05	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1216-16	JPP-26.1-012825	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1216-20	JPP-26.2-012825	07	100.04	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1218-02	BELL-25-002	08	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1219-02	LAW-25-0015	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1221-02	CHESTNUT-CONCRETE	10	100.03	2000	N/A	N/A	N/A	10.5	1.5	T-1
Q1232-04	JPP-46.2-012925	11	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1232-08	JPP-46.1-012925	12	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1232-12	JPP-42.1-012925	13	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q1232-16	JPP-42.2-012925	14	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1232-20	JPP-51.1-012925	15	100.01	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1235-04	JPP-51.2-012925	16	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1235-08	JPP-16.1-012925	17	100.04	2000	N/A	N/A	N/A	7.6	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166356TB	LEB356	N/A	N/A	N/A	N/A	N/A	N/A
Q1215-04	JPP-29.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1215-08	JPP-29.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-04	JPP-18.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-08	JPP-21.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-12	JPP-21.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-16	JPP-26.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-20	JPP-26.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1218-02	BELL-25-002	N/A	N/A	N/A	N/A	100	N/A
Q1219-02	LAW-25-0015	N/A	N/A	N/A	N/A	100	N/A
Q1221-02	CHESTNUT-CONCRETE	N/A	N/A	N/A	N/A	100	N/A
Q1232-04	JPP-46.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-08	JPP-46.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-12	JPP-42.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-16	JPP-42.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-20	JPP-51.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1235-04	JPP-51.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1235-08	JPP-16.1-012925	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB166356

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
PB166356TB	LEB356	N/A	N/A	N/A	N/A	#1	4.94
Q1215-04	JPP-29.1-012825	5.02	96.5	8.2	3.5	#1	4.94
Q1215-08	JPP-29.2-012825	5.03	96.5	9.0	4.0	#1	4.94
Q1216-04	JPP-18.1-012825	5.02	96.5	8.6	3.5	#1	4.94
Q1216-08	JPP-21.1-012825	5.01	96.5	9.0	4.0	#1	4.94
Q1216-12	JPP-21.2-012825	5.02	96.5	9.1	4.0	#1	4.94
Q1216-16	JPP-26.1-012825	5.00	96.5	8.6	3.5	#1	4.94
Q1216-20	JPP-26.2-012825	5.03	96.5	9.3	4.0	#1	4.94
Q1218-02	BELL-25-002	5.04	96.5	5.6	2.0	#1	4.94
Q1219-02	LAW-25-0015	5.03	96.5	5.5	2.5	#1	4.94
Q1221-02	CHESTNUT-CONCRETE	5.04	96.5	11.0	4.5	#1	4.94
Q1232-04	JPP-46.2-012925	5.02	96.5	7.2	2.5	#1	4.94
Q1232-08	JPP-46.1-012925	5.01	96.5	10.5	3.5	#1	4.94
Q1232-12	JPP-42.1-012925	5.02	96.5	11.5	4.5	#1	4.94
Q1232-16	JPP-42.2-012925	5.00	96.5	10.0	4.0	#1	4.94
Q1232-20	JPP-51.1-012925	5.03	96.5	9.1	3.5	#1	4.94
Q1235-04	JPP-51.2-012925	5.04	96.5	11.5	4.5	#1	4.94
Q1235-08	JPP-16.1-012925	5.05	96.5	10.5	4.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP Q1221 **WorkList ID :** 187275 **Department :** TCLP Extraction **Date :** 01-30-2025 08:09:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1215-04	JPP-29.1-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1215-08	JPP-29.2-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1216-04	JPP-18.1-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1216-08	JPP-21.1-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1216-12	JPP-21.2-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1216-16	JPP-26.1-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1216-20	JPP-26.2-012825	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1218-02	BELL-25-002	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311
Q1219-02	LAW-25-0015	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311
Q1221-02	CHESTNUT-CONCRETE	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311
Q1232-04	JPP-46.2-012925	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311
Q1232-08	JPP-46.1-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311
Q1232-12	JPP-42.1-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311
Q1232-16	JPP-42.2-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311
Q1232-20	JPP-51.1-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311
Q1235-04	JPP-51.2-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311
Q1235-08	JPP-16.1-012925	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311

12:30

Date/Time 01/30/25 12:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 01/30/25 16:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166426

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: EH

Balance check: EH

Balance ID: EX-SC-2

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 01/31/2025

Extraction Start Time : 10:29

Extraction End Date : 01/31/2025

Extraction End Time : 15:30

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6681
Surrogate	1.0ML	100/150 PPM	SP6638
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	EP2578
Baked Na2SO4	N/A	EP2580
10N NaoH	N/A	E3874
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673. pH Adjusted <2 with 1:1 H2SO4 & >11 with 10N NaOH.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25	RP (Ext. Lab)	RC/SVOC
15:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166426

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 01/31/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166356TB	PB166356TB	TCLP BNA	100	6	RUPESH	ritesh	1			SEP-01
PB166426BL	PB166426BL	TCLP BNA	1000	6	RUPESH	ritesh	1			2
PB166426BS	PB166426BS	TCLP BNA	1000	6	RUPESH	ritesh	1			3
Q1215-04	JPP-29.1-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q1215-08	JPP-29.2-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1216-04	JPP-18.1-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		6
Q1216-08	JPP-21.1-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		7
Q1216-12	JPP-21.2-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		8
Q1216-16	JPP-26.1-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		9
Q1216-20	JPP-26.2-012825	TCLP BNA	100	6	RUPESH	ritesh	1	A		10
Q1218-02	BELL-25-002	TCLP BNA	100	6	RUPESH	ritesh	1	A		11
Q1218-02MS	BELL-25-002MS	TCLP BNA	100	6	RUPESH	ritesh	1	A		12
Q1218-02MSD	BELL-25-002MSD	TCLP BNA	100	6	RUPESH	ritesh	1	A		13
Q1219-02	LAW-25-0015	TCLP BNA	100	6	RUPESH	ritesh	1	A		14
Q1221-02	CHESTNUT-CONCRETE	TCLP BNA	100	6	RUPESH	ritesh	1	A		15
Q1232-04	JPP-46.2-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		16
Q1232-08	JPP-46.1-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		SEP-01
Q1232-12	JPP-42.1-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		2
Q1232-16	JPP-42.2-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		3
Q1232-20	JPP-51.1-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		4
Q1235-04	JPP-51.2-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		5
Q1235-08	JPP-16.1-012925	TCLP BNA	100	6	RUPESH	ritesh	1	A		6

* **Extracts relinguished on the same date as received.**

1/31/25

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB16635

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	Pr Pc
PB166356TB	LEB356	N/A	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-
Q1215-04	JPP-29.1-012825	01	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-
Q1215-08	JPP-29.2-012825	02	100.03	2000	N/A	N/A	N/A	7.2	1.0	T-
Q1216-04	JPP-18.1-012825	03	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-
Q1216-08	JPP-21.1-012825	04	100.01	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1216-12	JPP-21.2-012825	05	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1216-16	JPP-26.1-012825	06	100.03	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1216-20	JPP-26.2-012825	07	100.04	2000	N/A	N/A	N/A	7.2	1.0	T-1
Q1218-02	BELL-25-002	08	100.02	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q1219-02	LAW-25-0015	09	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q1221-02	CHESTNUT-CONCRETE	10	100.03	2000	N/A	N/A	N/A	10.5	1.5	T-1
Q1232-04	JPP-46.2-012925	11	100.04	2000	N/A	N/A	N/A	5.8	1.0	T-2
Q1232-08	JPP-46.1-012925	12	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1232-12	JPP-42.1-012925	13	100.03	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q1232-16	JPP-42.2-012925	14	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q1232-20	JPP-51.1-012925	15	100.01	2000	N/A	N/A	N/A	7.0	1.0	T-2
Q1235-04	JPP-51.2-012925	16	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q1235-08	JPP-16.1-012925	17	100.04	2000	N/A	N/A	N/A	7.6	1.0	T-2

01/31/25

0911-45

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

Prep Standard - Chemical Standard Summary

Order ID : Q1235

Test : TCLP BNA

Prepbatch ID : PB166426,

Sequence ID/Qc Batch ID: BF013125,bf020325,BF020425,

Standard ID :
EP2565,EP2578,EP2580,SP6638,SP6672,SP6673,SP6674,SP6675,SP6676,SP6677,SP6678,SP6679,SP6680,SP6681,SP6685,SP6686,SP6717,

Chemical ID :
10ul/1000ul sample,E3551,E3815,E3827,E3828,E3846,E3848,E3871,E3874,M5173,S10103,S10246,S10393,S10583,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11085,S11086,S11093,S11099,S11103,S11138,S11141,S11160,S11494,S11495,S11649,S11776,S11777,S11778,S11779,S11780,S12079,S12113,S12114,S12134,S12135,S12136,S12137,S12138,S12139,S12140,S12141,S12142,S12187,S12188,S12189,S12207,S12208,S12275,S12276,S12327,S12461,S12462,S12463,S12464,S12465,S12466,S12467,S12468,S12469,S12510,S12511,S12512,S12513,S12514,S12515,S12516,S12517,S12649,S12650,S12790,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
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 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	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

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	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = 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
3764	8270/625 Stock solution 100 ng	SP6672	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.05000ml of S12114 + 0.20000ml of S11093 + 0.20000ml of S11494 + 0.20000ml of S11495 + 0.20000ml of S12276 + 0.26700ml of S10103 + 0.40000ml of S11103 + 0.40000ml of S12275 + 0.45000ml of S12113 + 0.50000ml of S11085 + 0.50000ml of S11086 + 0.50000ml of S12079 + 0.50000ml of S12790 + 0.80000ml of S11160 + 1.00000ml of S11099 + 3.83300ml of E3828 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6673	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.20000ml of E3828 + 0.80000ml of SP6672 = 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
412	60 ng BNA ICC, 60 PPM	SP6674	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.40000ml of E3828 + 0.60000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6675	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6672 = 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
410	40 ng BNA ICC, 40 PPM	SP6676	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6677	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.80000ml of E3828 + 0.20000ml of SP6672 = 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
408	10 ng BNA ICC, 10 PPM	SP6678	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.90000ml of E3828 + 0.10000ml of SP6672 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
407	5 ng BNA ICC, 5 PPM	SP6679	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.95000ml of E3828 + 0.05000ml of SP6672 = 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
175	2.5 ng BNA ICC, 2.5 PPM	SP6680	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6679 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
171	8270/625 Spike Solution, 50/100 PPM	SP6681	11/14/2024	02/12/2025	Jagrut Upadhyay	None	None	Yogesh Patel 11/18/2024

FROM 0.20000ml of S12142 + 0.40000ml of S10393 + 0.40000ml of S10583 + 0.40000ml of S11138 + 0.40000ml of S11141 + 0.40000ml of S11649 + 0.40000ml of S11776 + 0.70000ml of S11780 + 0.80000ml of S12461 + 0.80000ml of S12469 + 0.90000ml of S12510 + 1.00000ml of S12134 + 1.00000ml of S12141 + 1.20000ml of S12462 + 1.20000ml of S12463 + 1.20000ml of S12464 + 1.20000ml of S12465 + 1.20000ml of S12466 + 1.20000ml of S12467 + 1.20000ml of S12468 + 1.30000ml of S11777 + 1.30000ml of S11778 + 1.30000ml of S11779 + 1.30000ml of S12135 + 1.30000ml of S12136 + 1.30000ml of S12137 + 1.30000ml of S12138 + 1.30000ml of S12139 + 1.30000ml of S12140 + 1.30000ml of S12511 + 1.30000ml of S12512 + 1.30000ml of S12513 + 1.30000ml of S12514 + 1.30000ml of S12515 + 1.30000ml of S12516 + 1.30000ml of S12517 + 163.00000ml of E3827 = Final Quantity: 200.000 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
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 + 0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel 12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

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	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel 01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

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	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

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	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	03/13/2025	09/13/2024 / yogesh	05/18/2022 / Christian	S10393

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	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	02/12/2025	08/12/2024 / Rahul	07/05/2022 / Christian	S10583

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	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

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	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

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	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

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	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	03/11/2025	09/11/2024 / Rahul	02/07/2023 / Christian	S11085

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11099

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	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11103

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]	A0194698	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11138

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	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	02/12/2025	08/12/2024 / Rahul	02/20/2023 / Christian	S11141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	05/12/2025	11/12/2024 / Jagrut	03/06/2023 / Christian	S11160

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	03/13/2025	09/13/2024 / anahy	11/09/2023 / Yogesh	S11649

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	03/13/2025	09/13/2024 / anahy	11/21/2023 / Rahul	S11776

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11777

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11778

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11779

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	05/14/2025	11/14/2024 / Jagrut	11/21/2023 / Rahul	S11780

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

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-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	03/13/2025	09/13/2024 / anahy	03/15/2024 / Rahul	S12134

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12137

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12138

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]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12140

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12141

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	03/11/2025	09/11/2024 / Rahul	05/24/2024 / Rahul	S12275

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

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	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12461

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12462

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12463

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12464

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12466

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12467

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12468

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	03/13/2025	09/13/2024 / anahy	07/23/2024 / RAHUL	S12510

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12511

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12512

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	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12513

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12514

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12515

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12516

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/03/2025	02/03/2025 / anahy	09/20/2024 / anahy	S12650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12790

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG

S11084
to
S11088

*Not a certified value

Certified By: _____
Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

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-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Received on 02/07/23 by CG

~~S11088~~ S11096 to S11099

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	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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

Received on
02/07/23
by CG

S11101
to
S11103

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/08/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

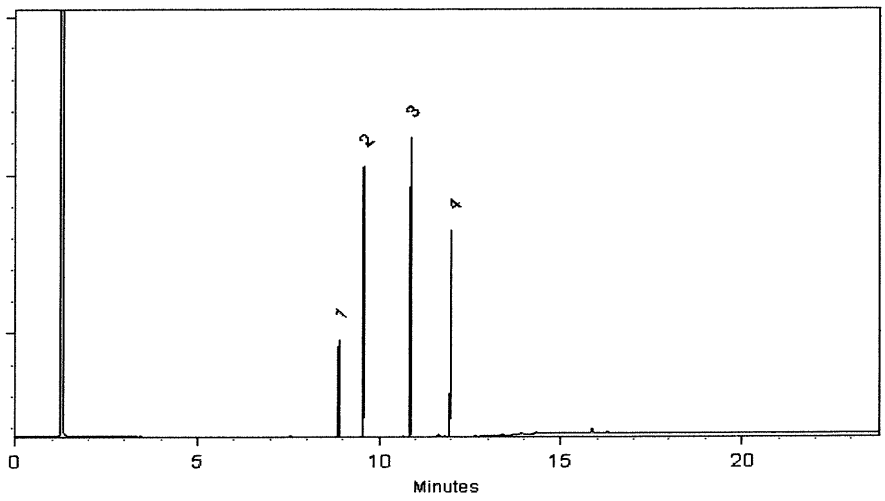
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22

S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622 µg/mL	Unstressed
	Purity 99%		+/- 905.6020 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK®
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by
CG
on
07/05/22
S 10583
to
S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK® CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis

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.

Received on 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

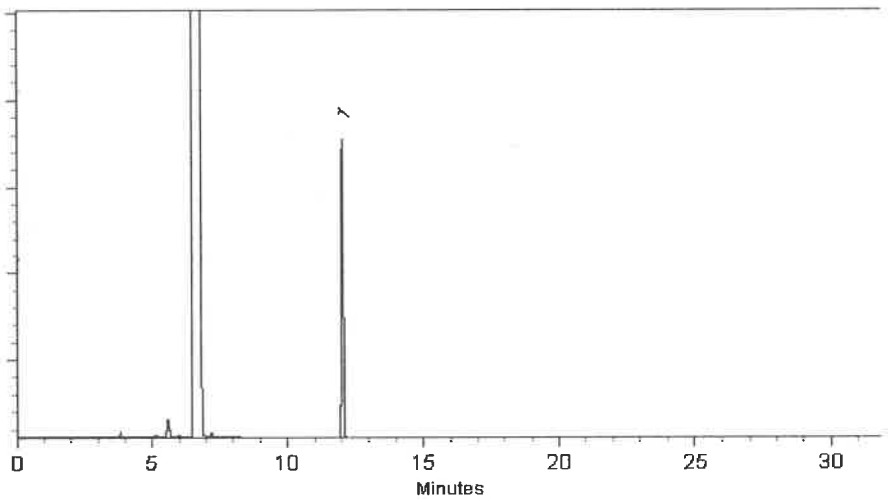
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

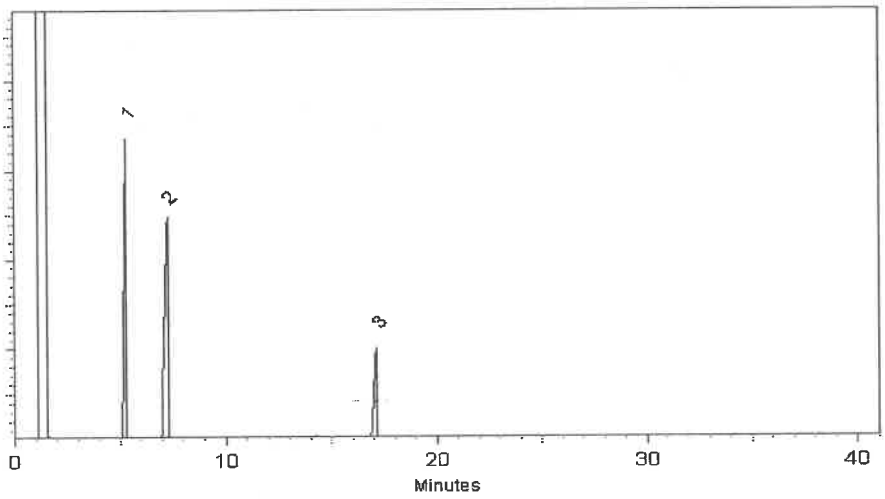
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

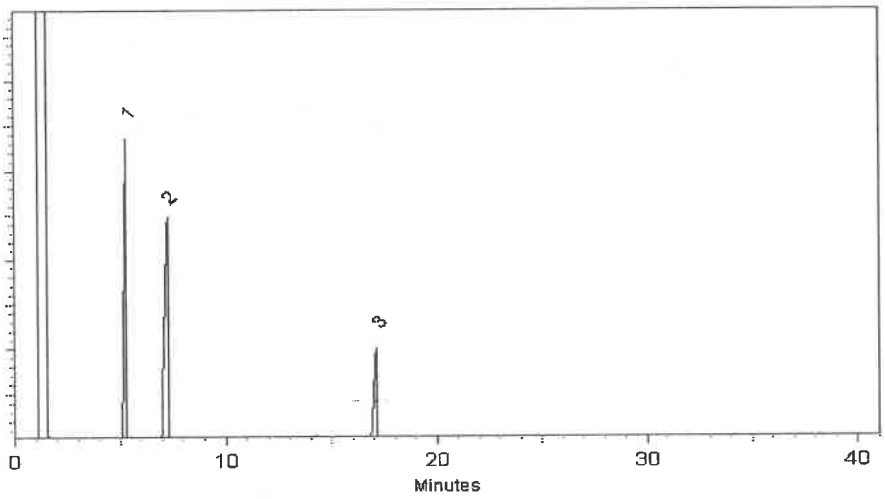
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

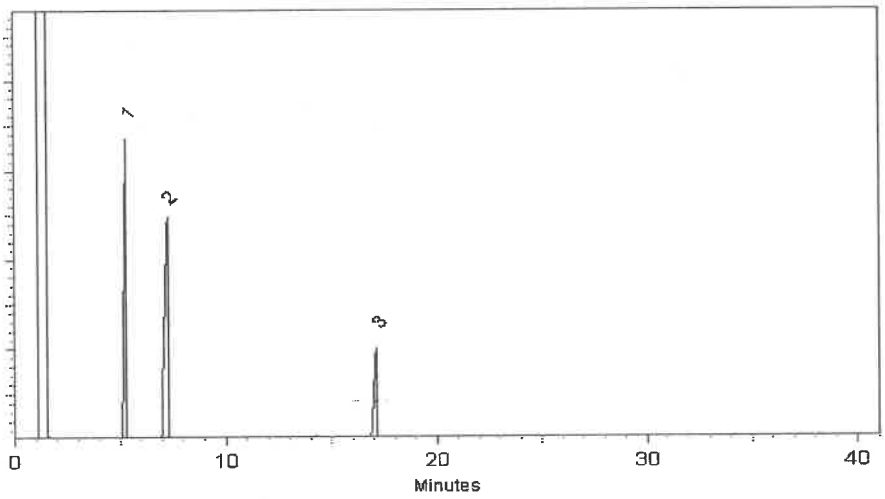
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

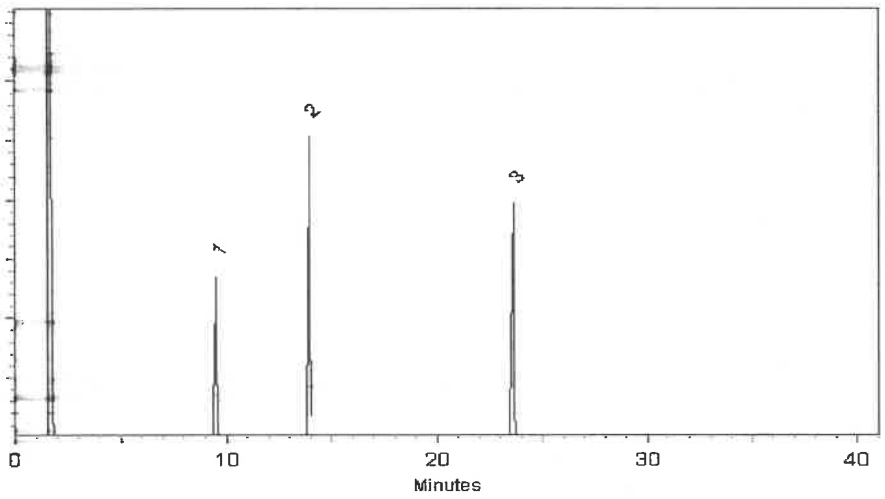
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

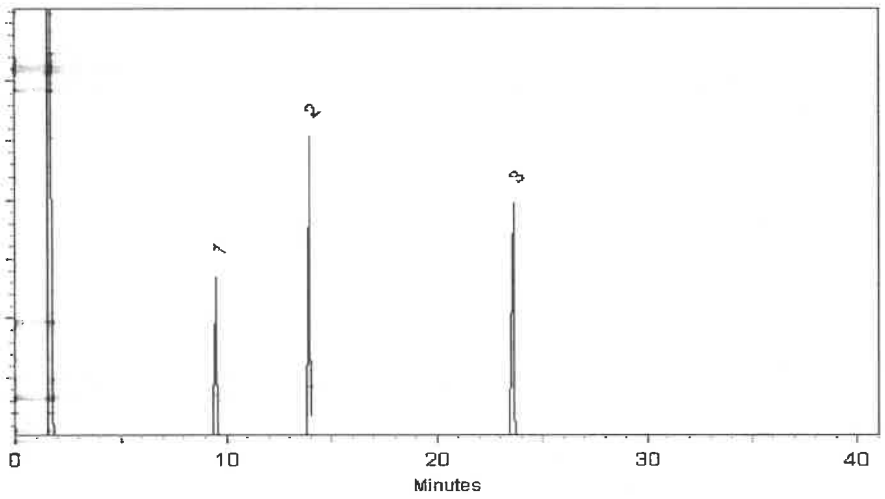
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

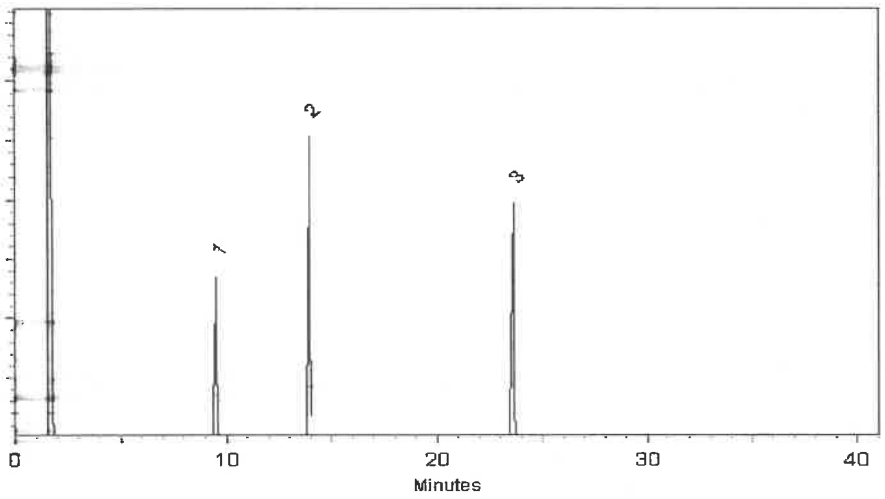
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

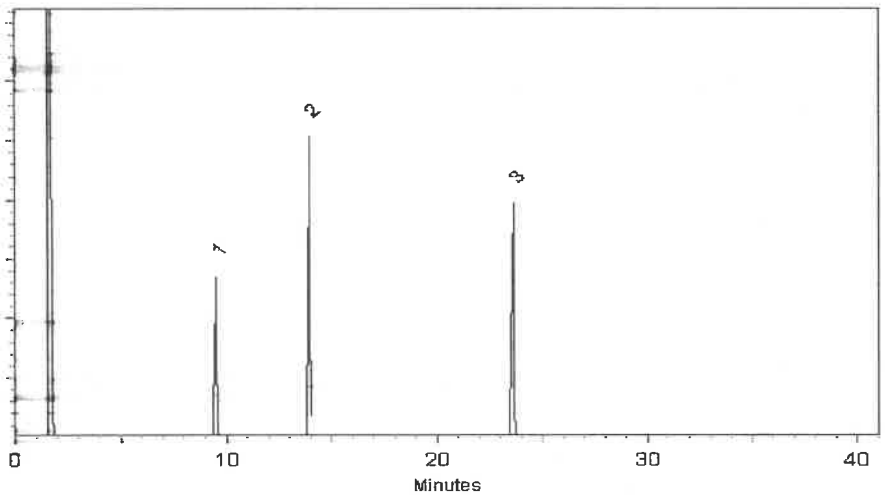
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

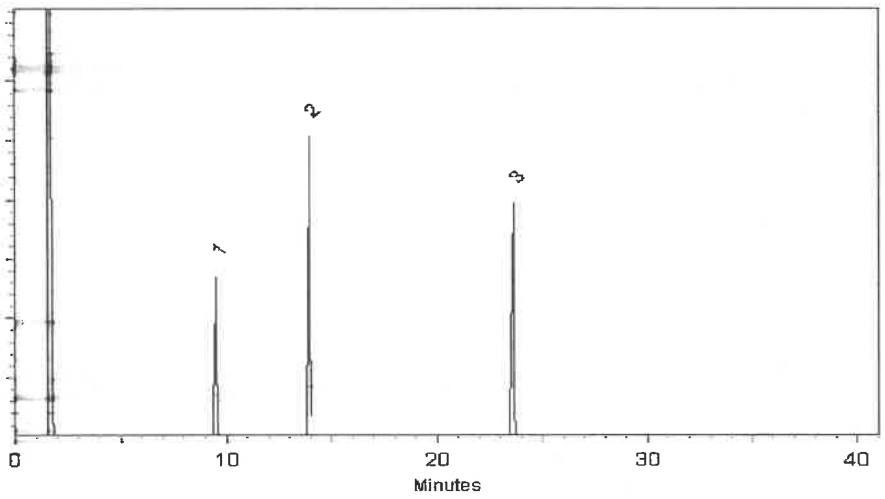
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

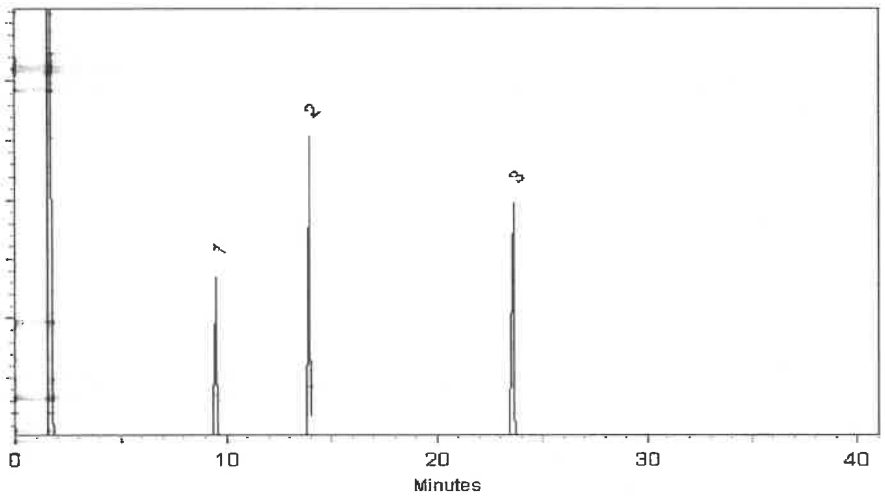
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

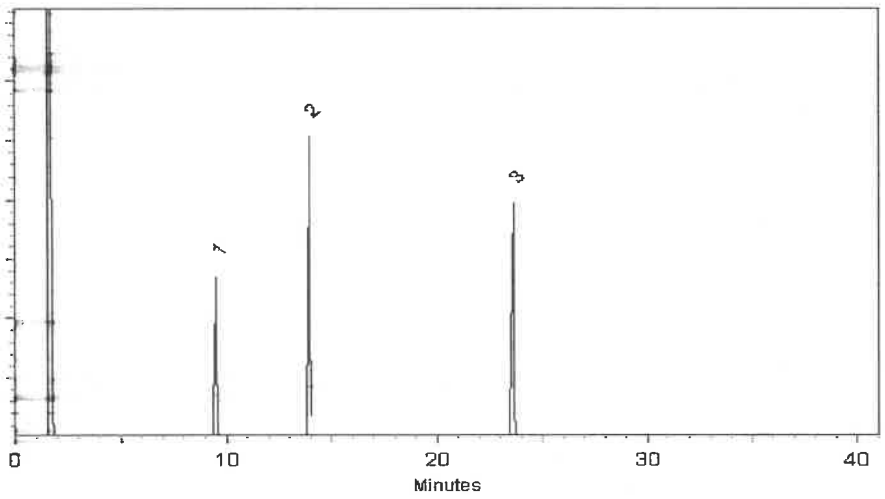
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555870 **Lot No.:** A0194698

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 : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	2,4-Dinitrophenol	51-28-5	DR221221RSR	99%	25,195.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek's Registered Quality Certificate #FM 8

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

ıty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ɜnded condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

ıds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the ɔmpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

ɜrtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ıty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ıty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

ɜrage factor of 2, which gives a level of confidence of approximately 95%.

ıged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure inimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily Γ traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ɳ, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ɟards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ɜm. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, ıdes complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

:es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

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

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24J0862003
Manufactured Date: 2024-09-12
Expiration Date:2025-12-12
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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

Recd by RP on 12/13/24

E 3846

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

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
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 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3848

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

12/9-1/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
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 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3871

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date:2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

Material No.: 9530-33
Batch No.: 0000281827
Manufactured Date: 2021/03/30
Retest Date: 2026/03/29
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000281827

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

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

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.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

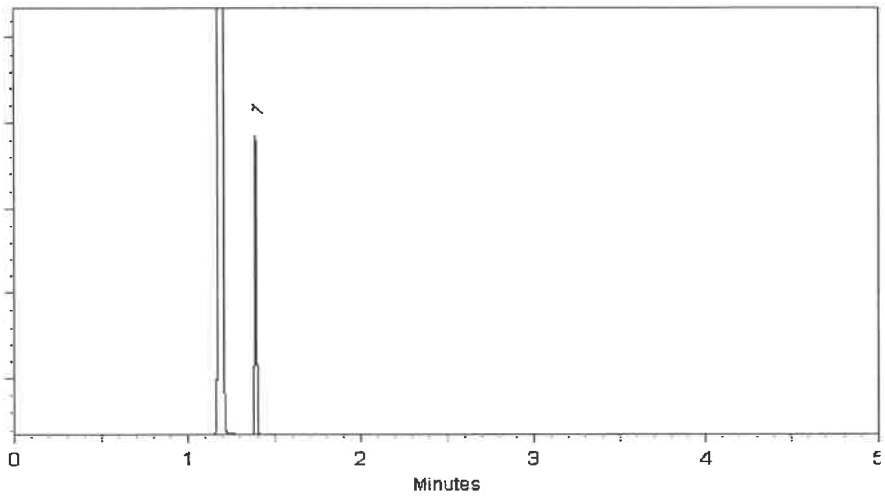
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

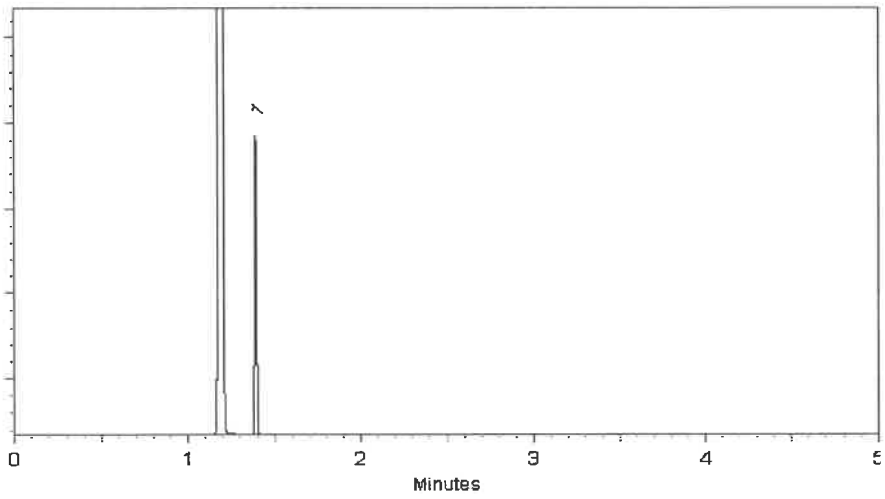
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

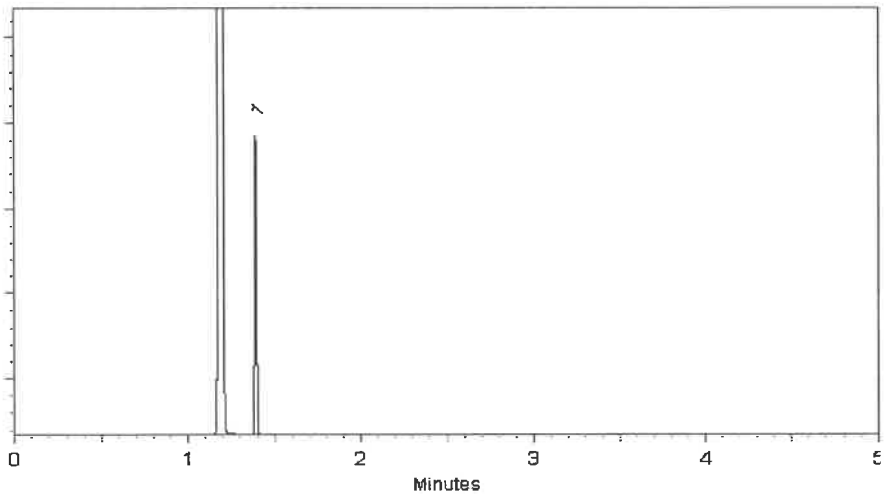
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

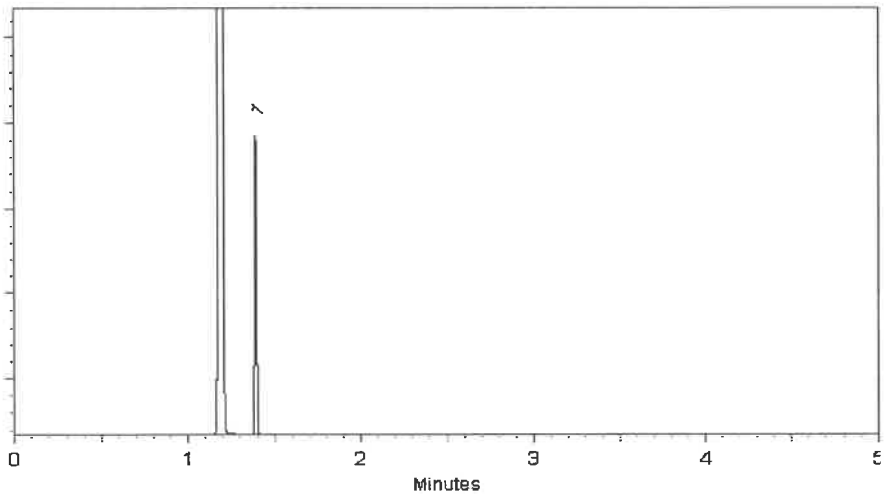
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0196453

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11749 ↓ S11794 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

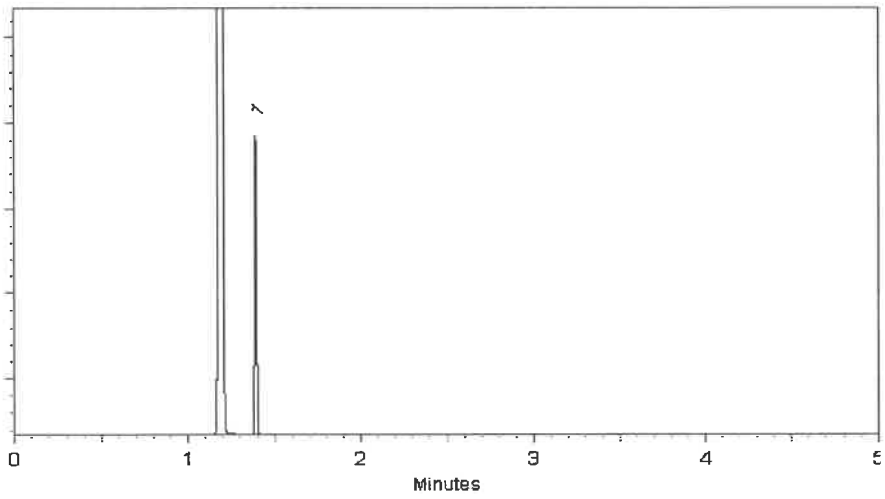
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined 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-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.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

S12112 ↓ S12116 } RC/ 03/08/24

*Not a certified value

Certified By: Melissa Workoff

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12117 ↓ S12146 RC/ 03/18/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

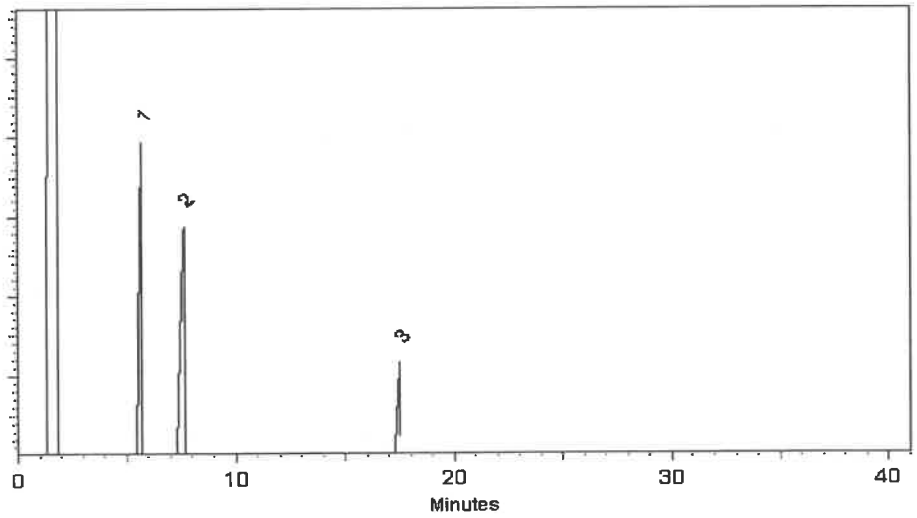
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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.)

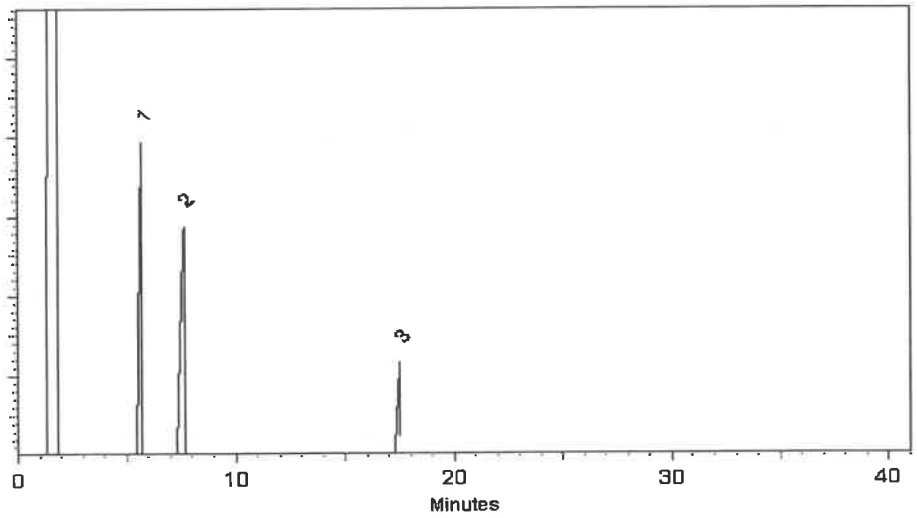
Inj. Temp:
250°C

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.)

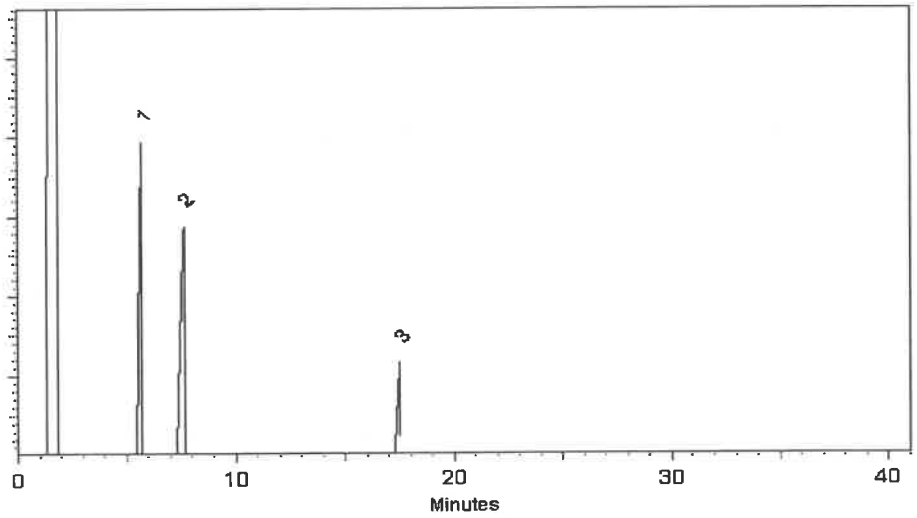
Inj. Temp:
250°C

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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

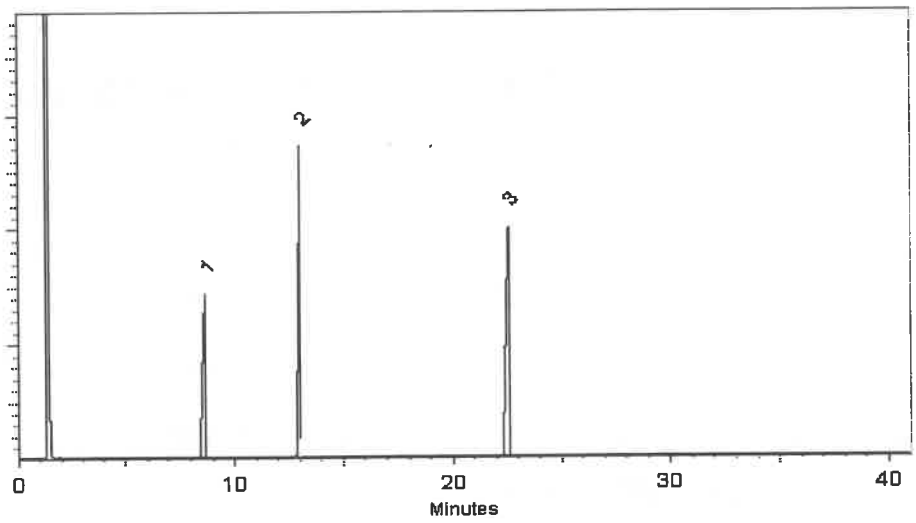
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

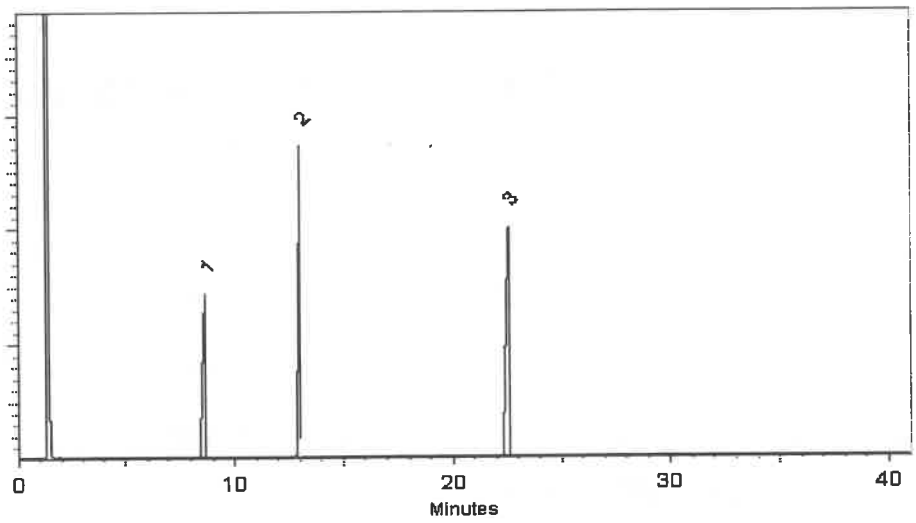
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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 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

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.

S12312 ↓ S12331 } RC/ 05/30/24

Catalog No. : 31206 **Lot No.:** A0206540

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

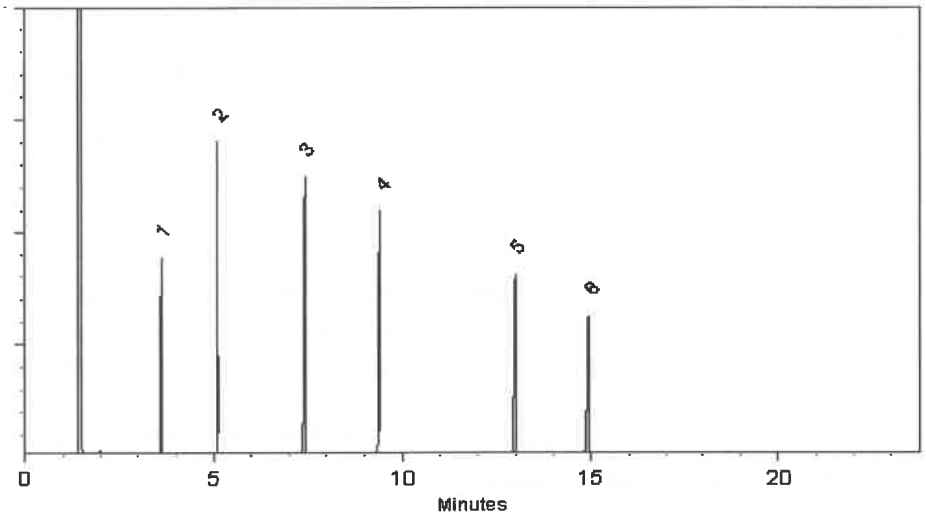
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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

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

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

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

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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. : 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

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. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤-10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~S12280~~ ↓ ~~S12284~~ RCI 05/24/24

New numbers Generated.

S12790 ↓ S12794 RCI 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

SHIPPING DOCUMENTS

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Q1235
QUOTE NO.
COC Number 2041689

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: RU2 Engineering LLC
ADDRESS: 2 Melinda Drive, Monroe Twp, NJ 08831
CITY STATE: ZIP:
ATTENTION: Rutu Manani
PHONE: 609-409-4564 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SANDTWOBR BMCR Project
PROJECT NO.: LOCATION: Brooklyn, NYC
PROJECT MANAGER: Rutu Manani
e-mail: Rmanani@RU2eng.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Same as company address PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard 10 days DAYS*
HARDCOPY (DATA PACKAGE): Standard 10 days DAYS*
EDD: Standard 10 days DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☐ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ NYS ASP A
- ☒ NYS ASP B
- ☐ Other
- ☐ EDD FORMAT

ANALYSIS

1 TCL VOC + TICs MTBE/TBA
2 TCLP VOCs
3 TPH GRO-DRO
4 TCL SVOCs + TICs
5 TAL Metals
6 Pesticides, PCBs
7 RCRA Characteristics
8 Paint filter
9 full TCLP

CHEMTECH 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
1.	JPP-51.2-012925	So.1		G	1/29/25	14:50	3	X	X	X							
2.	JPP-51.2-012925	So.1	C		1/29/25	15:00	8			X	X	X	X	X	X	X	
3.	JPP-16.1-012925	So.1		G	1/29/25	15:54	3	X	X	X							
4.	JPP-16.1-012925	So.1	C		1/29/25	16:00	8			X	X	X	X	X	X	X	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

Specify Preservatives: A-HCl B-HN03 C-H2SO4 D-NaOH E-ICE F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. RA	1/30/2025 1152	1. 1095 1-30-25
2.		2.
3.	1-30-25 1152	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
Comments: Preserve extra Sample Jar if additional analysis is Required.

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

Copyright © 2005

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235 RUTW01
Client Name : RU2 Engineering, LLC
Client Contact : Rutu Manani
Invoice Name : RU2 Engineering, LLC
Invoice Contact : Rutu Manani

Order Date : 1/30/2025 12:15:00 PM
Project Name : ~~SANDTWOBR BMCR Bro~~ NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Receive DateTime : 1/30/2025 11:52:00 AM
Purchase Order :

YG 02/04/25

Project Mgr :
Report Type : NYS ASP B
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					VOCMS Group1		8260D		10 Bus. Days
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					VOCMS Group1		8260D		10 Bus. Days

Relinguished By :
Date / Time : 1/30/25 1300

Received By :
Date / Time : 1-30-25 13:00

Storage Area : **VOA Refridgerator Room**

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235 RUTW01
Client Name : RU2 Engineering, LLC
Client Contact : Rutu Manani
Invoice Name : RU2 Engineering, LLC
Invoice Contact : Rutu Manani

Order Date : 1/30/2025 12:15:00 PM
Project Name : ~~SANDTWOBR BMCR Bro~~ NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Receive DateTime : 1/30/2025 11:52:00 AM
Purchase Order :

YG 02/04/25

Project Mgr :
Report Type : NYS ASP B
EDD Type : Excel NY
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					Gasoline Range Organics		8015D		10 Bus. Days
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					Gasoline Range Organics		8015D		10 Bus. Days

Relinguished By :
Date / Time : 1/30/25 1300

Received By :
Date / Time : 1-30-25 13:00

Storage Area : VOA Refridgerator Room